

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN083118\
 Data File : VN050978.D
 Acq On : 31 Aug 2018 10:55
 Operator : MD\SY
 Sample : VN0831WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0831WBL01

Quant Time: Aug 31 14:15:22 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	583117	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	908065	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	786635	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	245235	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	370940	52.84	ug/l	0.00
Spiked Amount			Recovery	=	105.68%	
35) Dibromofluoromethane	7.59	113	361717	50.07	ug/l	0.00
Spiked Amount			Recovery	=	100.14%	
50) Toluene-d8	10.09	98	1292690	47.86	ug/l	0.00
Spiked Amount			Recovery	=	95.72%	
62) 4-Bromofluorobenzene	12.40	95	324700	36.18	ug/l	0.00
Spiked Amount			Recovery	=	72.36%	

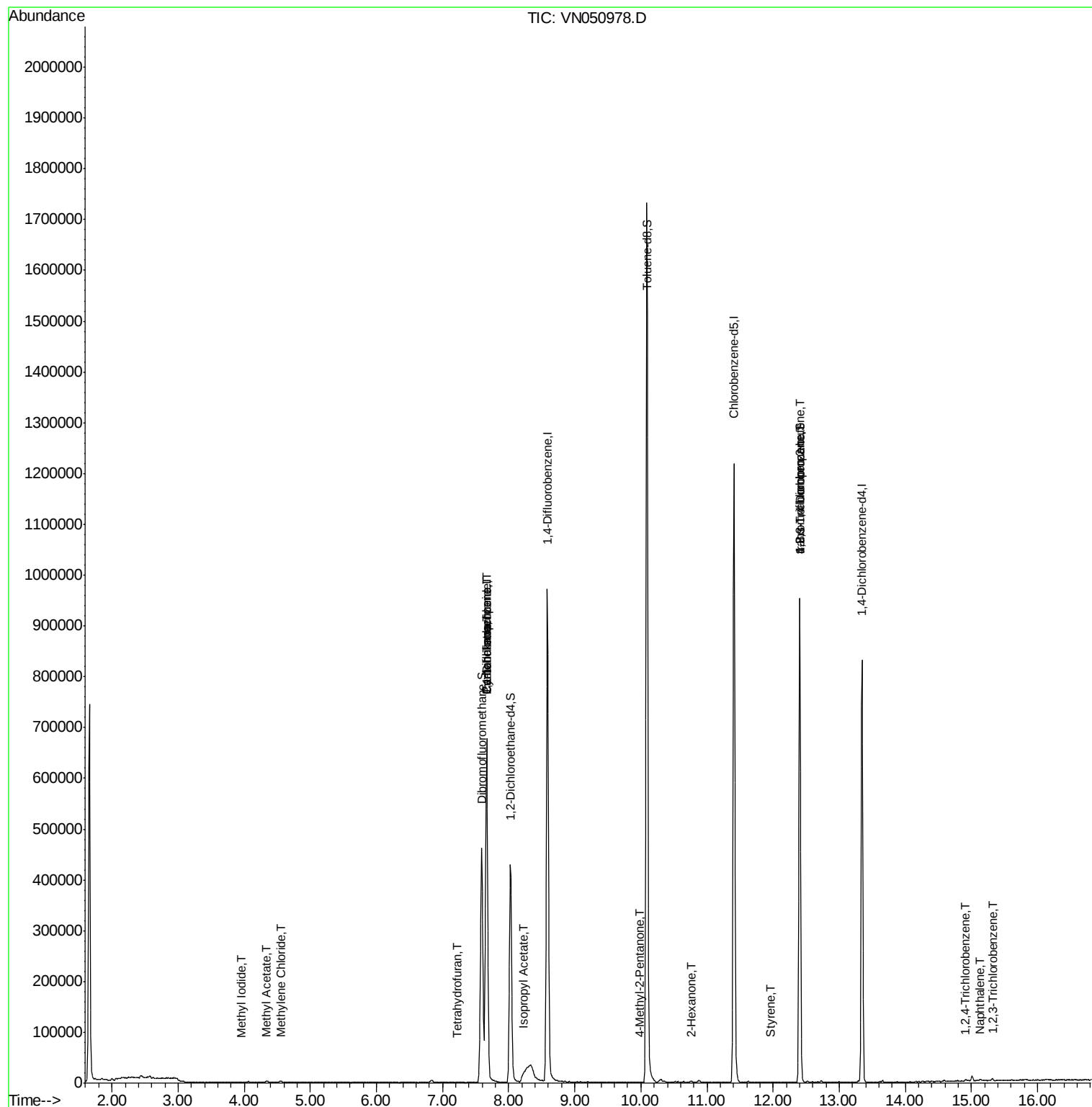
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	2389	Below Cal	#	73
10) Methyl Iodide	3.95	142	356	6.39	ug/l #	43
16) Acetone	3.83	43	1528	Below Cal	#	41
18) Methyl Acetate	4.34	43	5421	0.82	ug/l #	89
20) Methylene Chloride	4.55	84	1962	0.25	ug/l #	80
29) Tetrahydrofuran	7.21	42	344	0.21	ug/l #	64
31) Cyclohexane	7.66	56	9960	1.29	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	38172	3.56	ug/l #	49
38) Carbon Tetrachloride	7.67	117	49910	4.61	ug/l #	17
43) Isopropyl Acetate	8.22	43	10718	1.01	ug/l #	58
51) 4-Methyl-2-Pentanone	9.99	43	1800	0.29	ug/l #	35
59) 2-Hexanone	10.76	43	2272	0.54	ug/l	67
70) Styrene	11.97	104	498	1.29	ug/l #	44
75) 1,1,2,2-Tetrachloroethane	12.51	83	510	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	153568	35.75	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	153568	120.86	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	1369	4.35	ug/l	85
94) Hexachlorobutadiene	15.01	225	2292	Below Cal		99
95) Naphthalene	15.13	128	3521	5.72	ug/l #	92
96) 1,2,3-Trichlorobenzene	15.31	180	2146	3.75	ug/l	95

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

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN050978.D

Acq: 31 Aug 2018 10:55

Instrument :

MSVOA_N

ClientSampled :

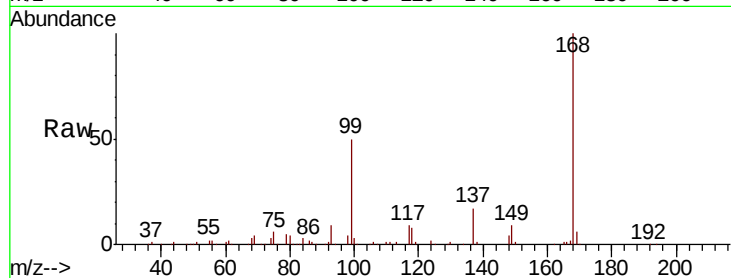
VN0831WBL01

Tot Ion:168 Resp: 583117

Ion Ratio Lower Upper

168 100

99 50.0 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): VN050978.D (-1870) (-)

Ion 98.90 (98.60 to 99.60): VN050978.D (-1870) (-)

7.67

250000

200000

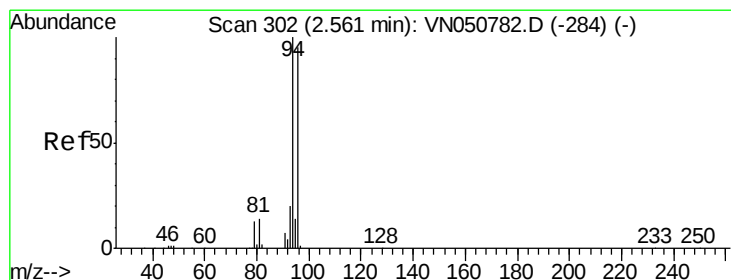
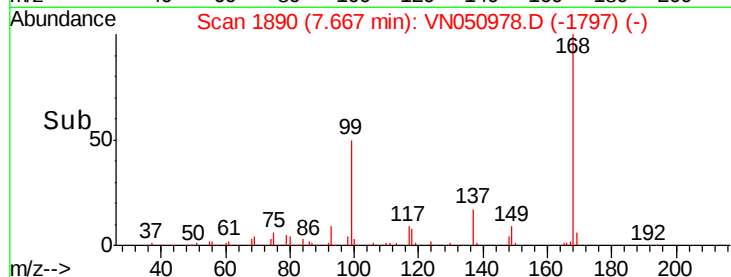
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050978.D

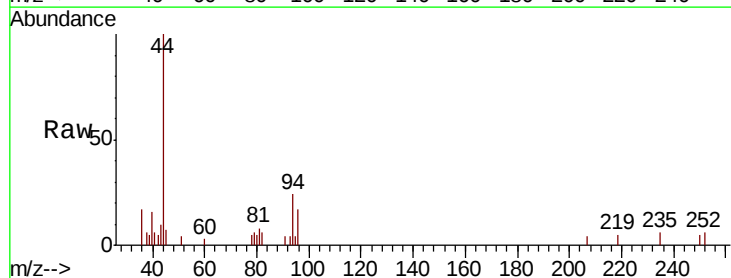
Acq: 31 Aug 2018 10:55

Tgt Ion: 94 Resp: 2389

Ion Ratio Lower Upper

94 100

96 69.4 76.2 114.2#



Abundance Ion 93.90 (93.60 to 94.60): VN050978.D (-284) (-)

Ion 95.90 (95.60 to 96.60): VN050978.D (-284) (-)

2.57

1200

1000

800

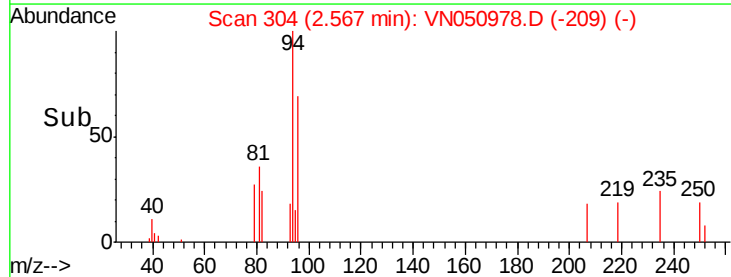
600

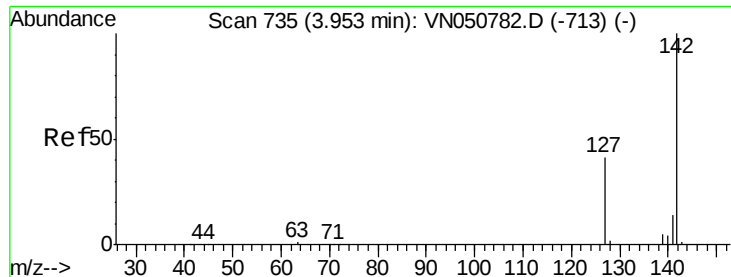
400

200

0

Time-->

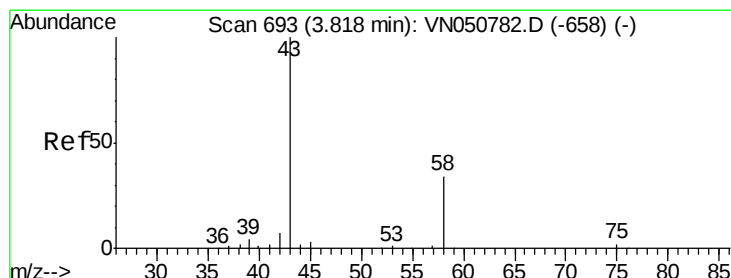
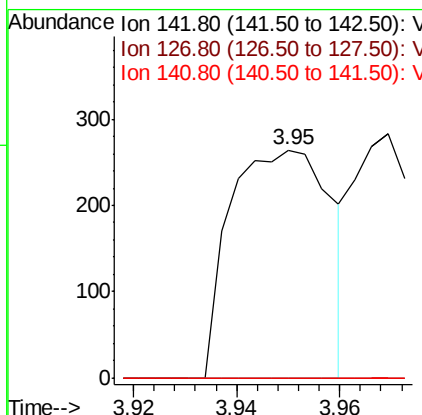
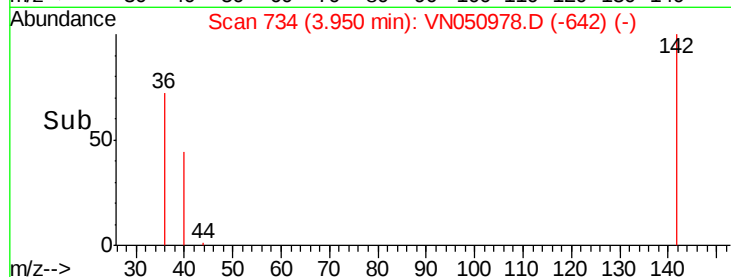
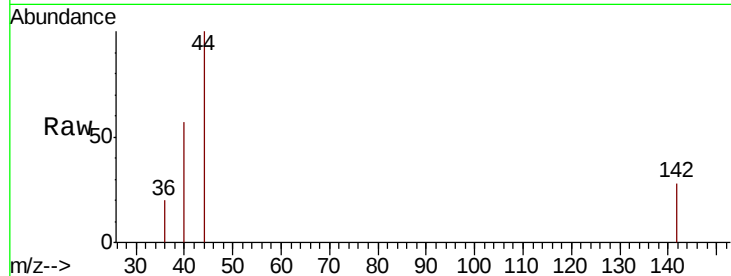




#10
Methvl Iodide
Concen: 6.39 ua/l
RT: 3.95 min Scan# 734
Delta R.T. -0.00 min
Lab File: VN050978.D
Acq: 31 Aug 2018 10:55

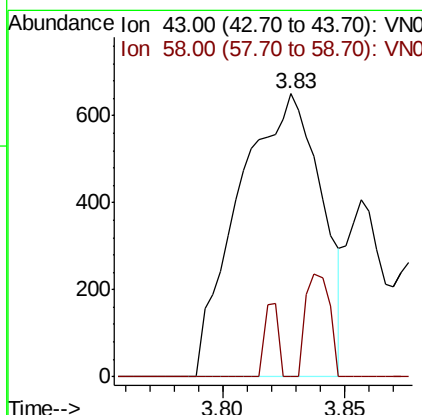
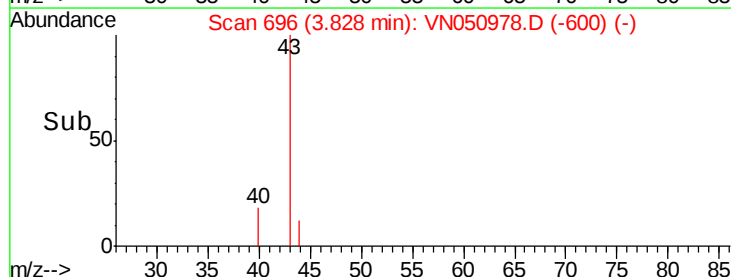
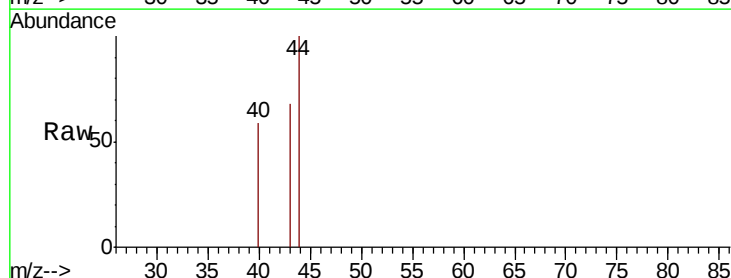
Instrument :
MSVOA_N
ClientSampled :
VN0831WBL01

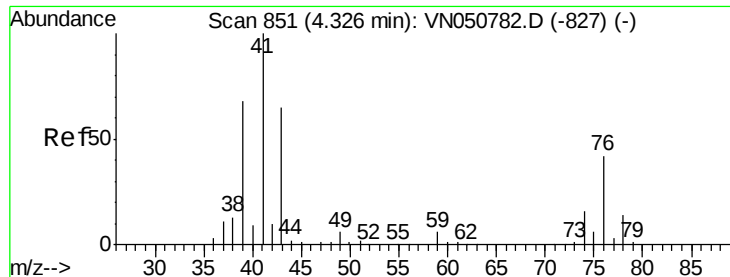
Tot Ion:142 Resp: 356
Ion Ratio Lower Upper
142 100
127 0.0 31.7 47.5#
141 0.0 11.4 17.0#



#16
Acetone
Concen: Below Cal
RT: 3.83 min Scan# 696
Delta R.T. 0.01 min
Lab File: VN050978.D
Acq: 31 Aug 2018 10:55

Tgt Ion: 43 Resp: 1528
Ion Ratio Lower Upper
43 100
58 0.0 27.2 40.8#

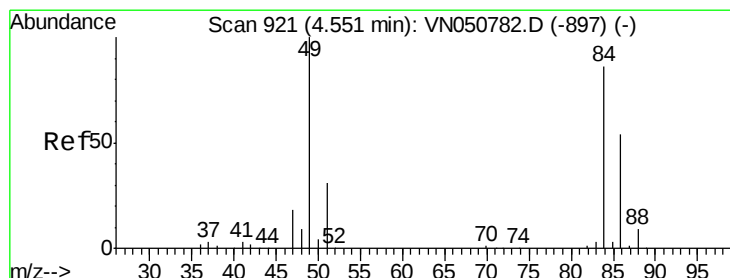
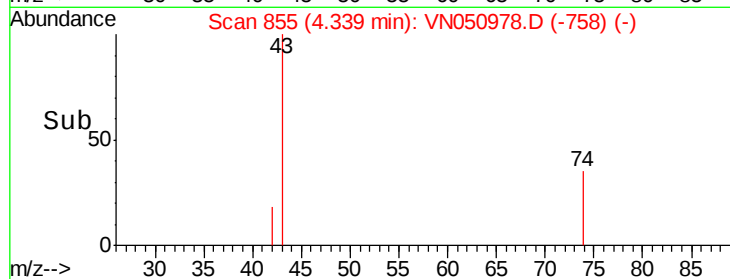
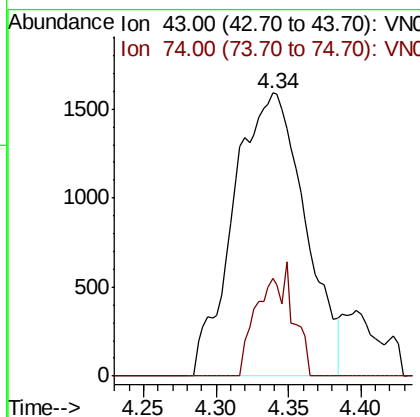
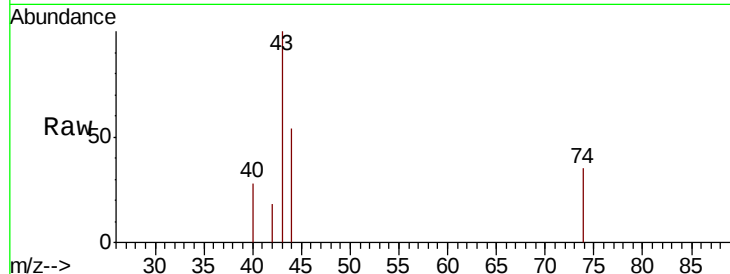




#18
Methvl Acetate
Concen: 0.82 ug/l
RT: 4.34 min Scan# 855
Delta R.T. 0.01 min
Lab File: VN050978.D
Acq: 31 Aug 2018 10:55

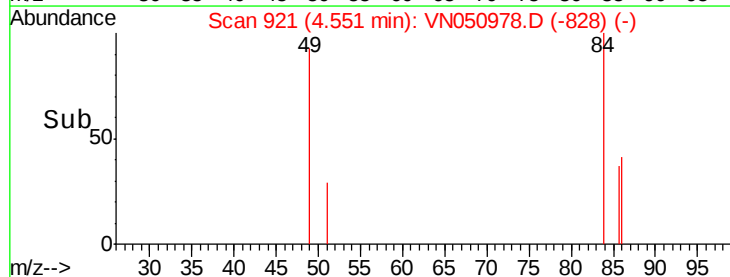
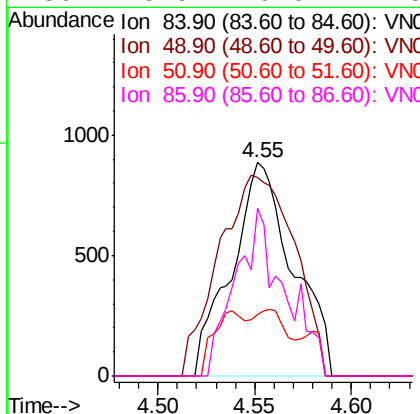
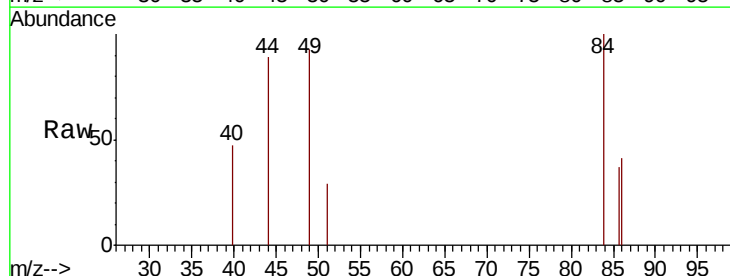
Instrument :
MSVOA_N
ClientSampleId :
VN0831WBL01

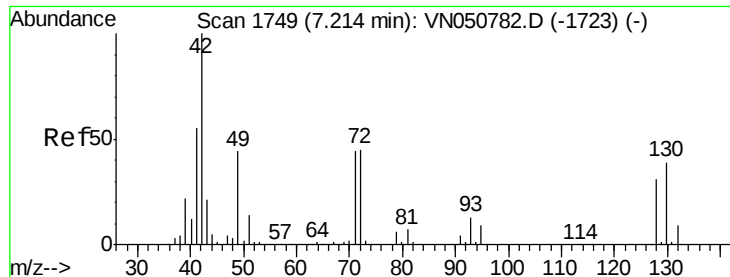
Tot Ion: 43 Resp: 5421
Ion Ratio Lower Upper
43 100
74 19.2 19.8 29.8#



#20
Methylene Chloride
Concen: 0.25 ug/l
RT: 4.55 min Scan# 921
Delta R.T. -0.00 min
Lab File: VN050978.D
Acq: 31 Aug 2018 10:55

Tgt Ion: 84 Resp: 1962
Ion Ratio Lower Upper
84 100
49 92.8 93.2 139.8#
51 28.5 29.0 43.6#
86 78.5 49.8 74.8#





#29

Tetrahydrofuran

Concen: 0.21 ug/l

RT: 7.21 min Scan# 1748

Delta R.T. -0.00 min

Lab File: VN050978.D

Acq: 31 Aug 2018 10:55

Instrument :

MSVOA_N

ClientSampleId :

VN0831WBL01

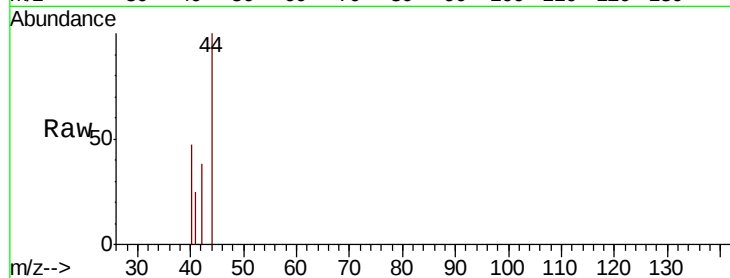
Tot Ion: 42 Resp: 344

Ion Ratio Lower Upper

42 100

72 49.4 35.5 53.3

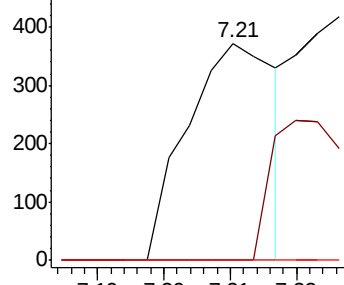
71 0.0 33.7 50.5#



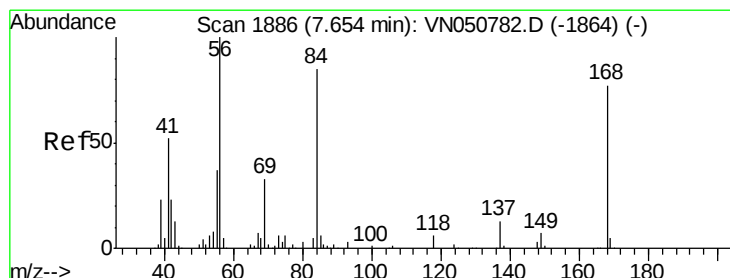
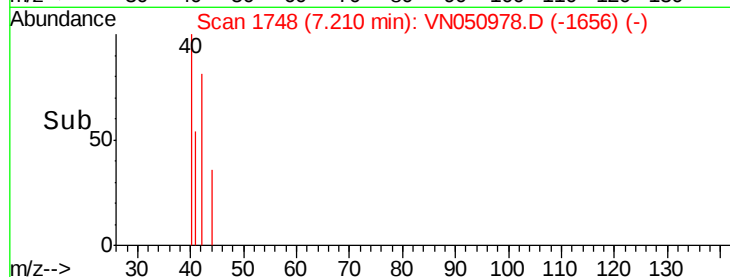
Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



Time-->



#31

Cyclohexane

Concen: 1.29 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. 0.01 min

Lab File: VN050978.D

Acq: 31 Aug 2018 10:55

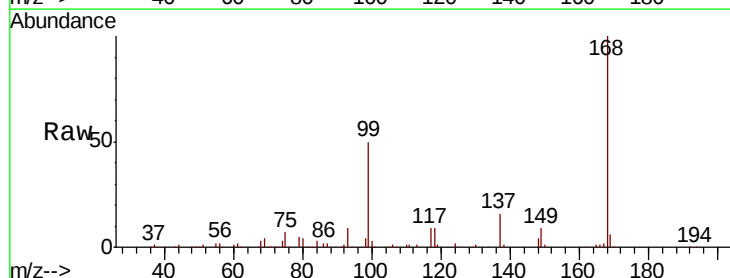
Tgt Ion: 56 Resp: 9960

Ion Ratio Lower Upper

56 100

69 214.1 26.2 39.4#

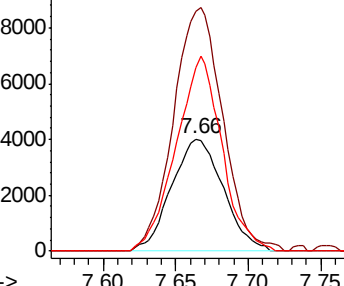
84 164.1 68.3 102.5#



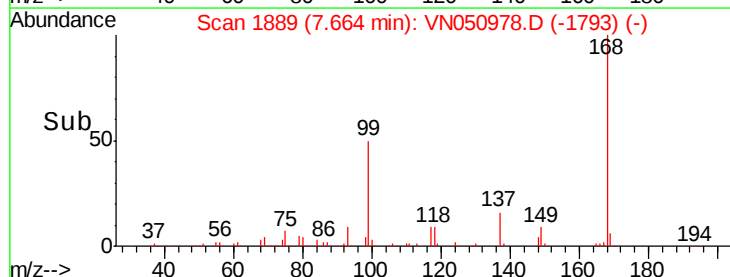
Abundance Ion 56.00 (55.70 to 56.70): VN0

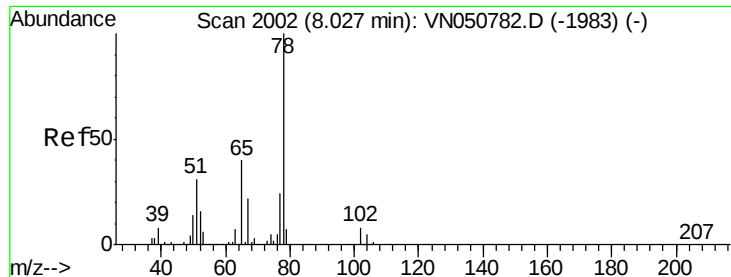
Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



Time-->

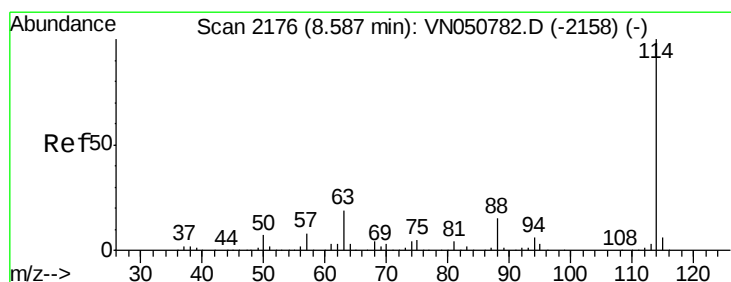
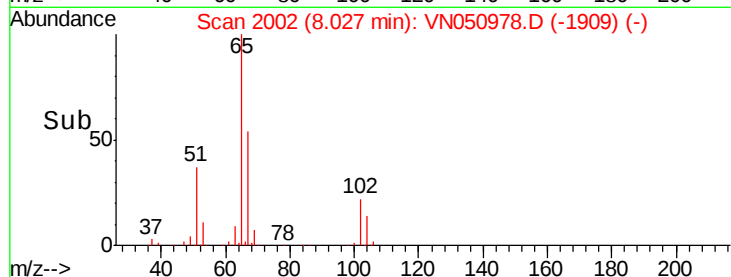
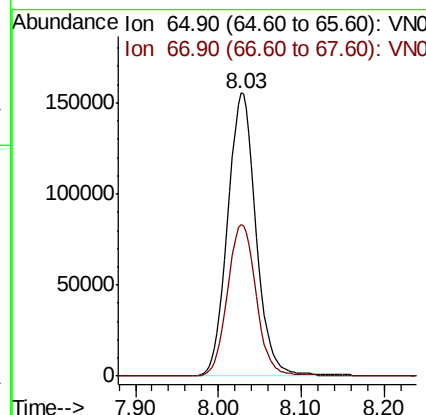
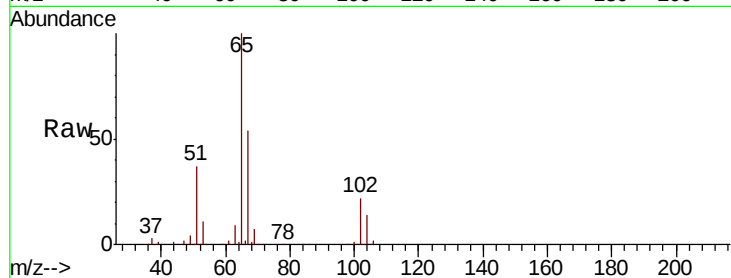




#33
 1,2-Dichloroethane-d4
 Concen: 52.84 ug/l
 RT: 8.03 min Scan# 2002
 Delta R.T. -0.00 min
 Lab File: VN050978.D
 Acq: 31 Aug 2018 10:55

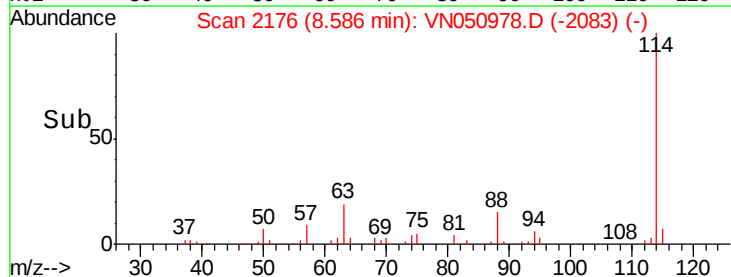
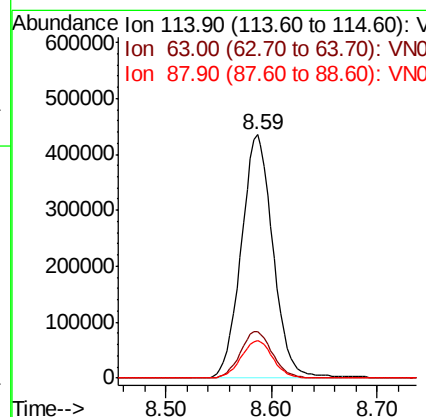
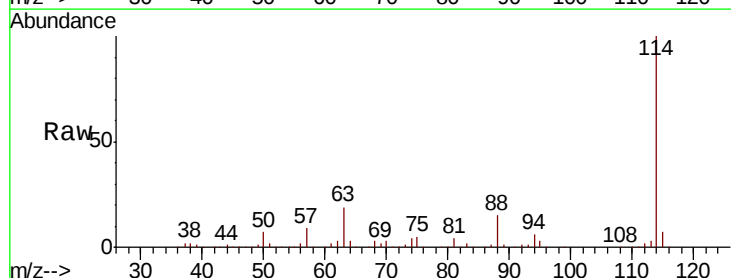
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0831WBL01

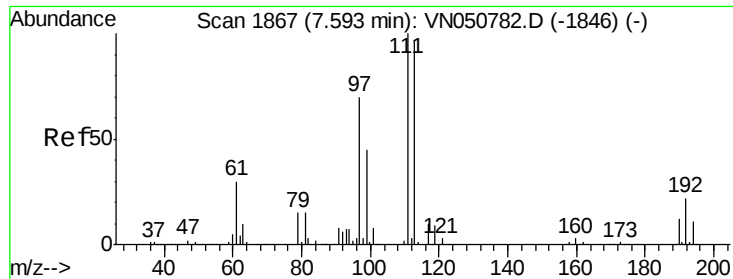
Tot Ion: 65 Resp: 370940
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050978.D
 Acq: 31 Aug 2018 10:55

Tgt Ion: 114 Resp: 908065
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 38.6
 88 15.3 0.0 30.6

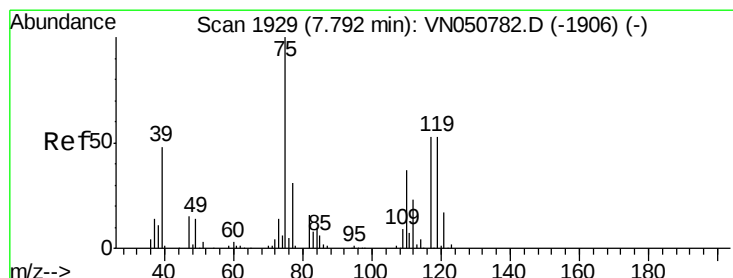
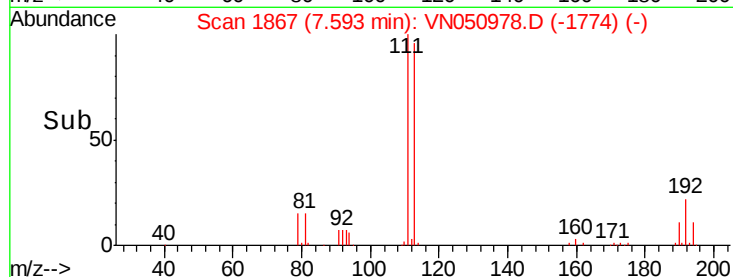
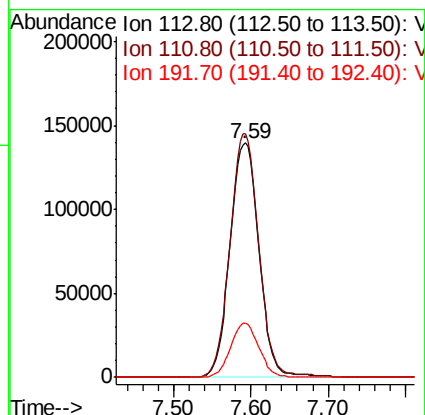
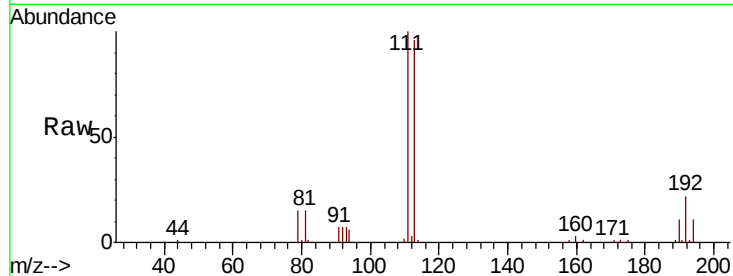




#35
 Dibromofluoromethane
 Concen: 50.07 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050978.D
 Acq: 31 Aug 2018 10:55

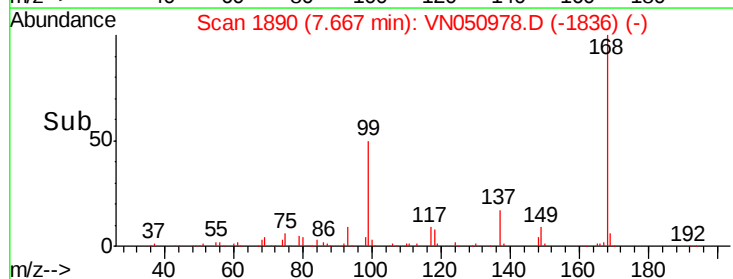
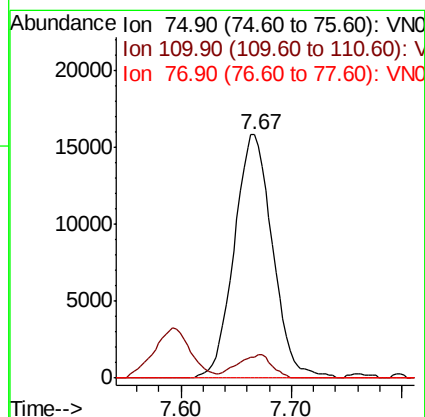
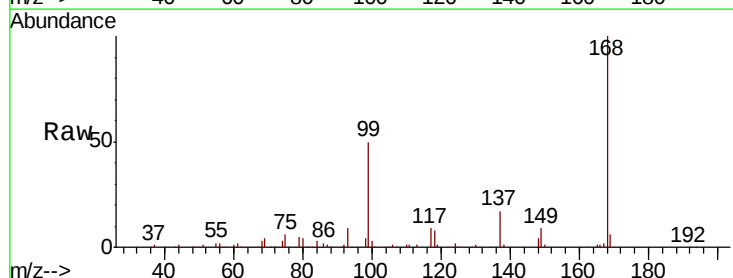
Instrument :
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 VN0831WBL01

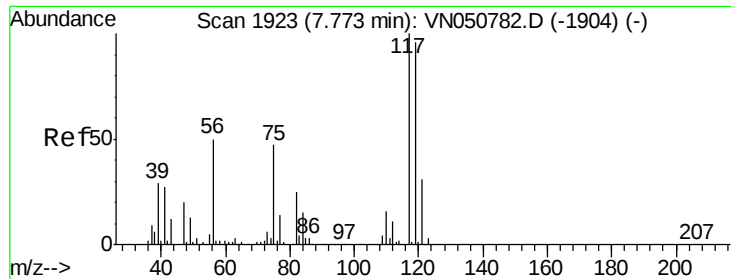
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.6	123.8
192	22.6	18.0	27.0



#36
 1,1-Dichloropropene
 Concen: 3.56 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050978.D
 Acq: 31 Aug 2018 10:55

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.7	18.1	54.4#
77	0.0	24.8	37.2#

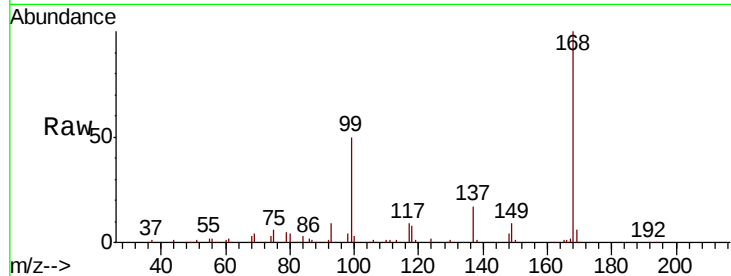




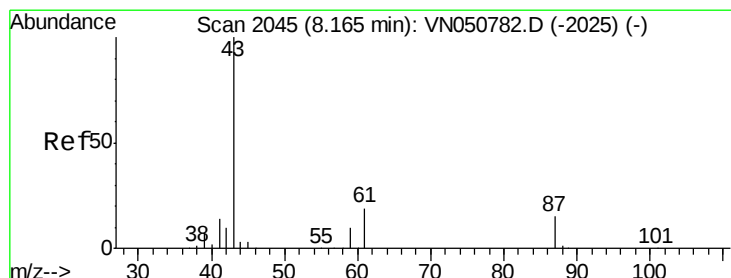
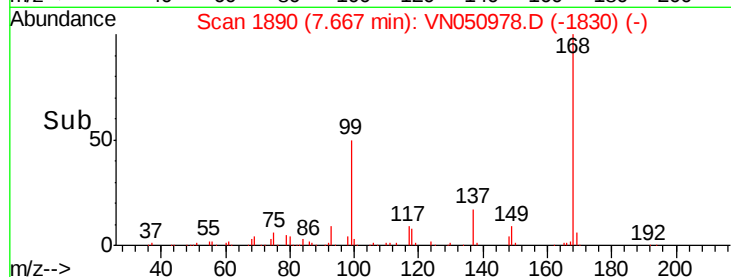
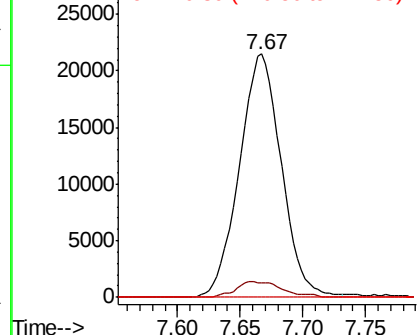
#38
Carbon Tetrachloride
Concen: 4.61 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN050978.D
Acq: 31 Aug 2018 10:55

Instrument :
MSVOA_N
ClientSampleId :
VN0831WBL01

Tot Ion:117 Resp: 49910
Ion Ratio Lower Upper
117 100
119 6.0 76.3 114.5#
121 0.0 24.6 36.8#

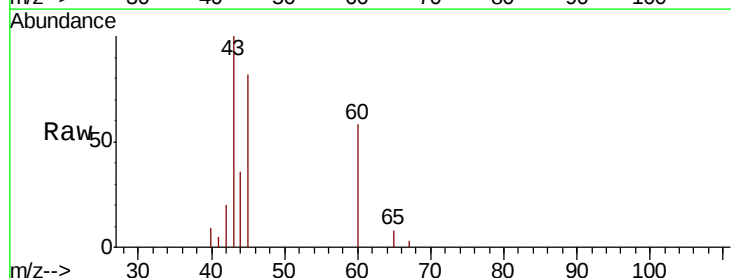


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

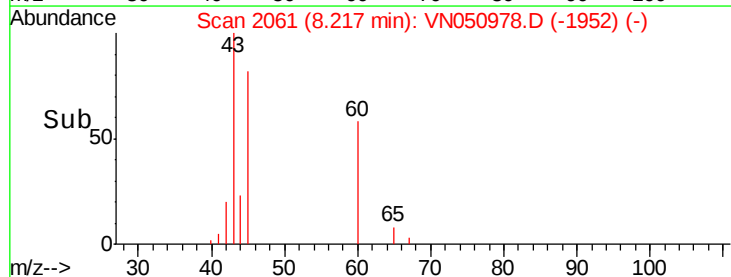
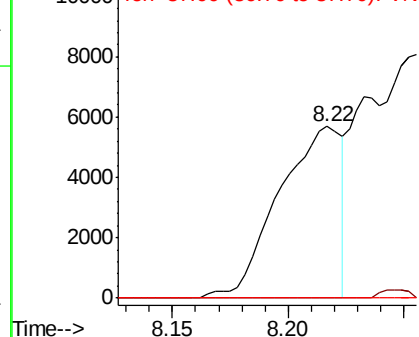


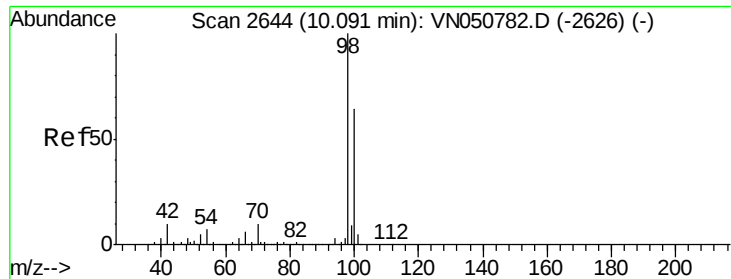
#43
Isopropyl Acetate
Concen: 1.01 ug/l
RT: 8.22 min Scan# 2061
Delta R.T. 0.05 min
Lab File: VN050978.D
Acq: 31 Aug 2018 10:55

Tgt Ion: 43 Resp: 10718
Ion Ratio Lower Upper
43 100
61 0.0 17.5 26.3#
87 0.0 11.3 16.9#



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





#50

Toluene-d8

Concen: 47.86 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VN050978.D

Acq: 31 Aug 2018 10:55

Instrument :

MSVOA_N

ClientSampleId :

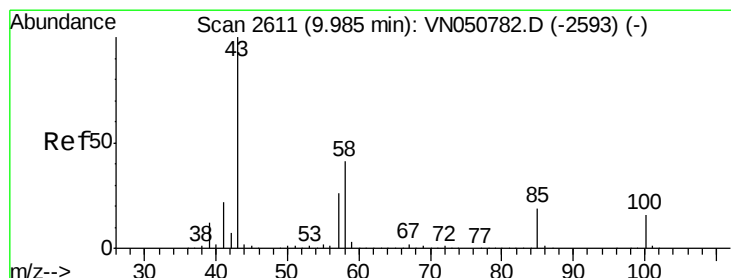
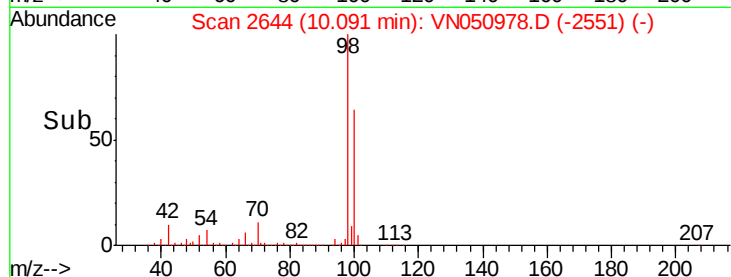
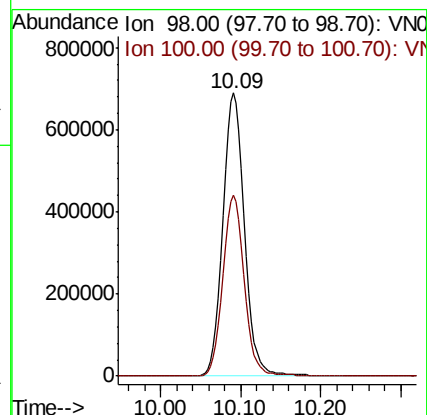
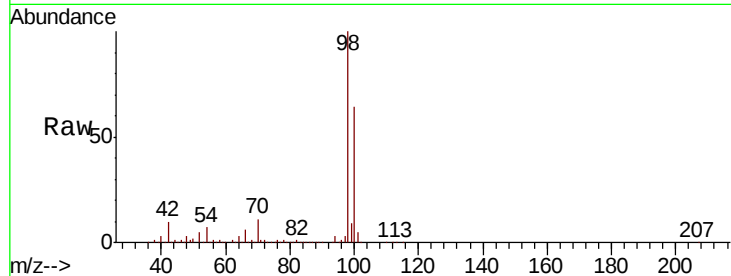
VN0831WBL01

Tot Ion: 98 Resp: 1292690

Ion Ratio Lower Upper

98 100

100 63.6 51.5 77.3



#51

4-Methyl-2-Pentanone

Concen: 0.29 ug/l

RT: 9.99 min Scan# 2613

Delta R.T. 0.01 min

Lab File: VN050978.D

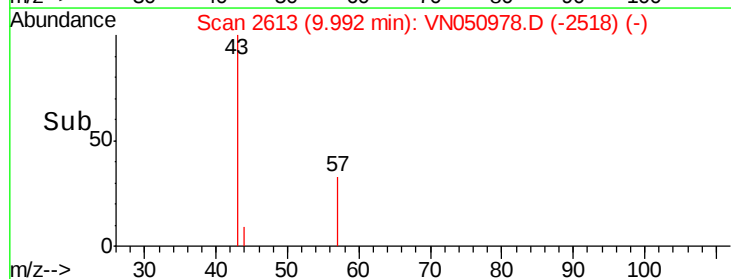
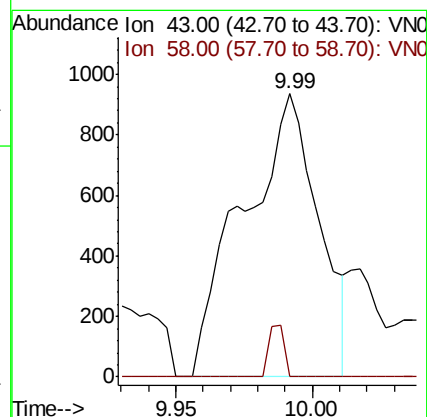
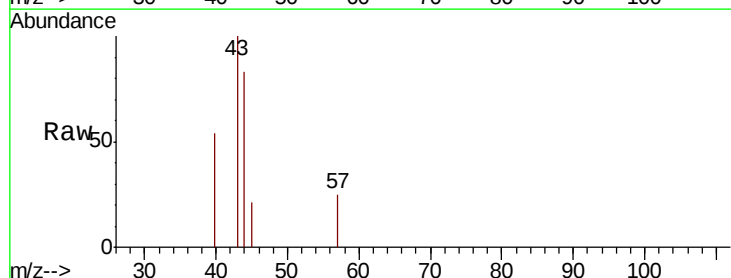
Acq: 31 Aug 2018 10:55

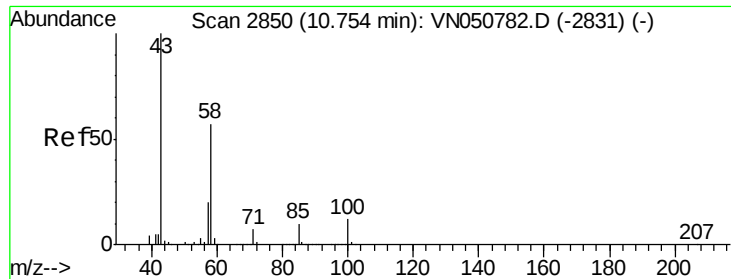
Tgt Ion: 43 Resp: 1800

Ion Ratio Lower Upper

43 100

58 0.0 32.4 48.6#





#59

2-Hexanone

Concen: 0.54 ug/l

RT: 10.76 min Scan# 2852

Delta R.T. 0.01 min

Lab File: VN050978.D

Acq: 31 Aug 2018 10:55

Instrument :

MSVOA_N

ClientSampleId :

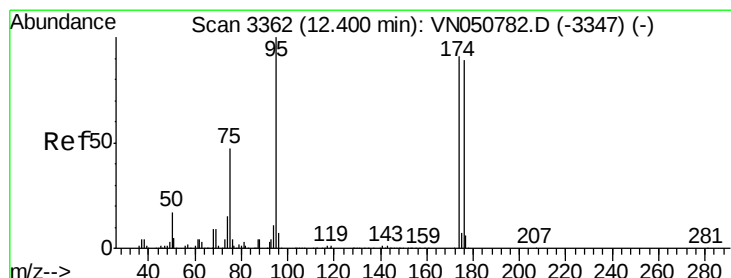
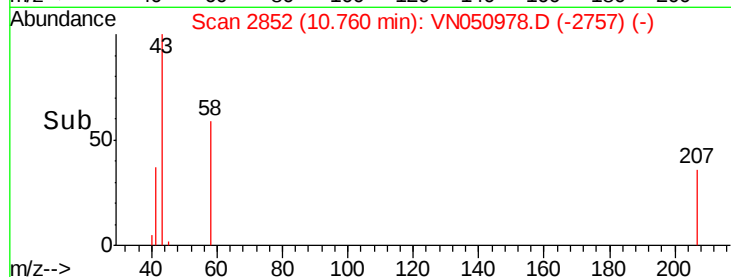
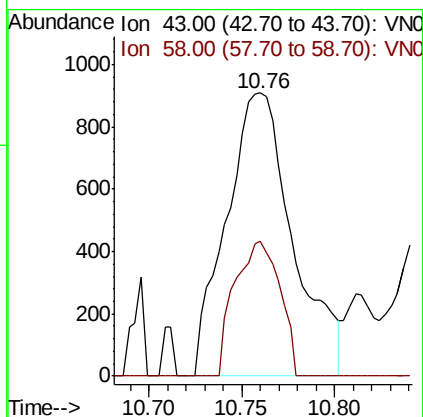
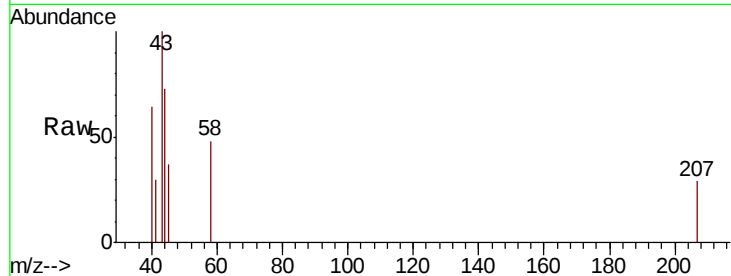
VN0831WBL01

Tot Ion: 43 Resp: 2272

Ion Ratio Lower Upper

43 100

58 32.2 28.3 85.0



#62

4-Bromofluorobenzene

Concen: 36.18 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050978.D

Acq: 31 Aug 2018 10:55

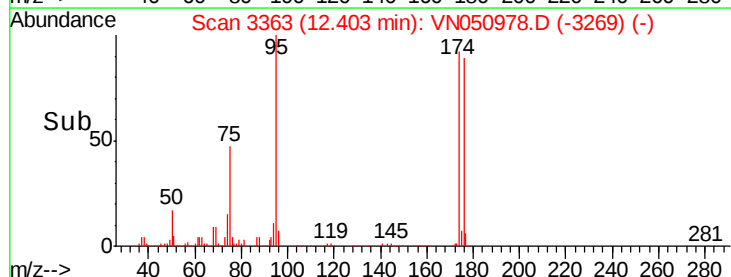
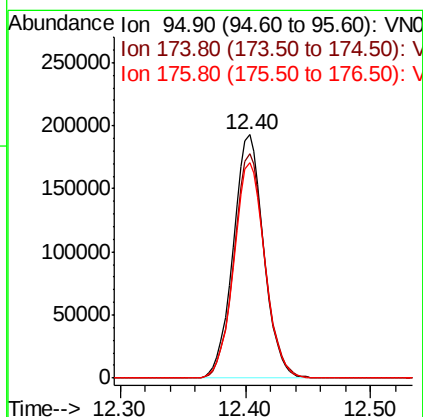
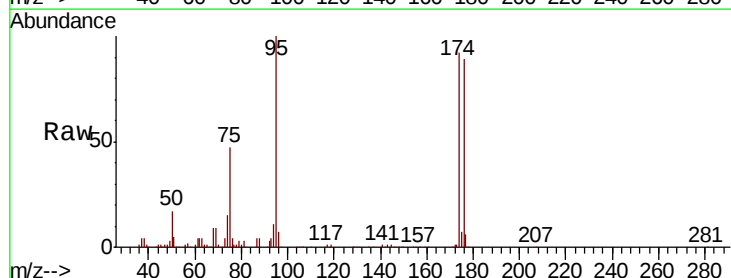
Tgt Ion: 95 Resp: 324700

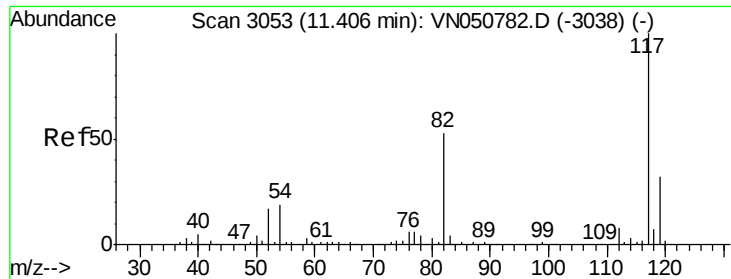
Ion Ratio Lower Upper

95 100

174 93.0 0.0 183.0

176 90.2 0.0 178.8

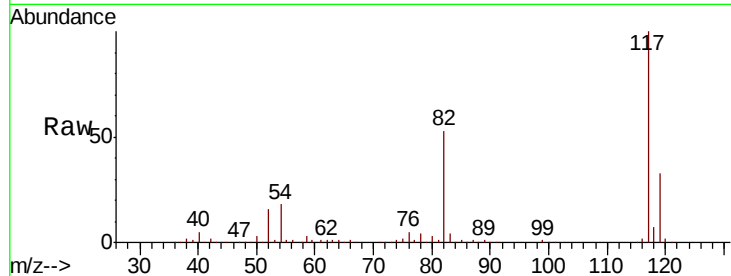




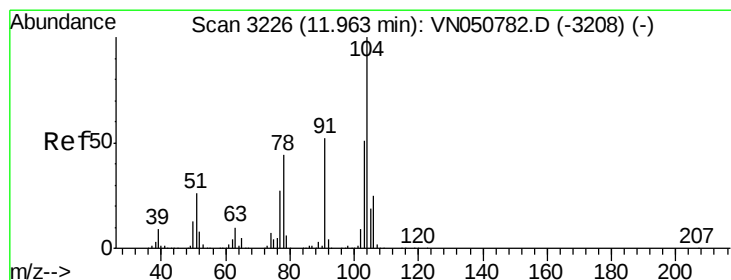
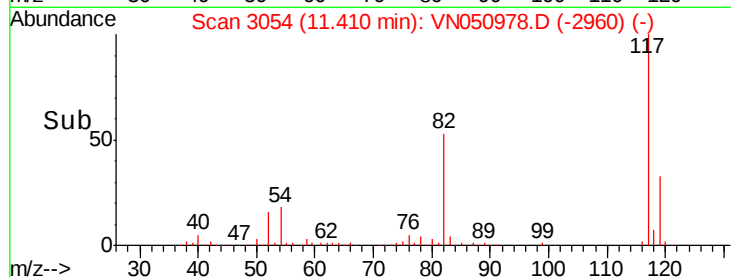
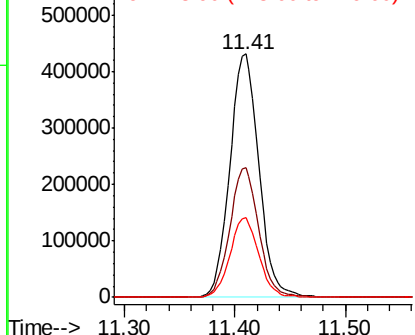
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050978.D
Acq: 31 Aug 2018 10:55

Instrument :
MSVOA_N
ClientSampleId :
VN0831WBL01

Tot Ion:117 Resp: 786635
Ion Ratio Lower Upper
117 100
82 53.1 42.6 64.0
119 32.5 25.8 38.6

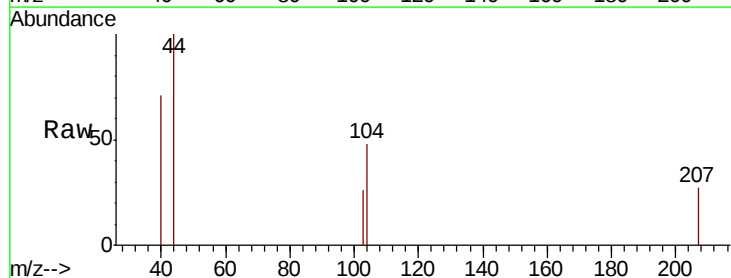


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN0
Ion 118.90 (118.60 to 119.60): V

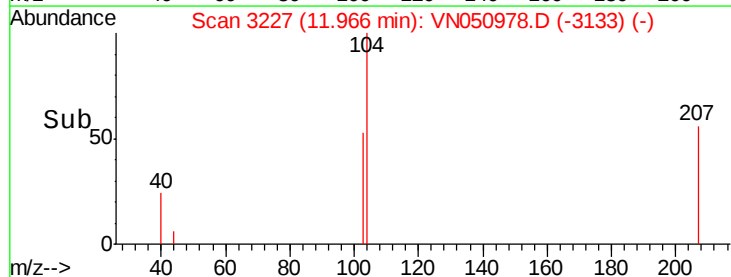
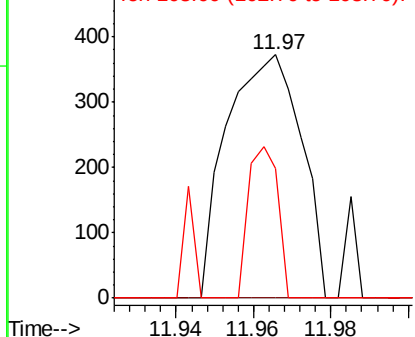


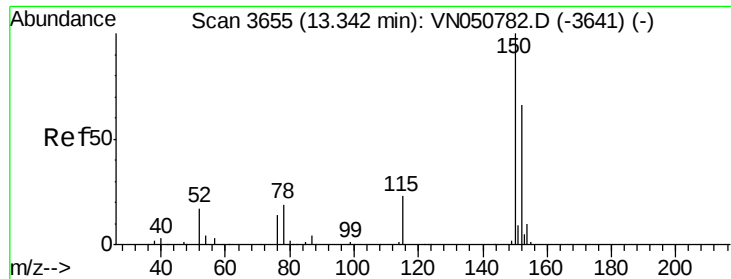
#70
Styrene
Concen: 1.29 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050978.D
Acq: 31 Aug 2018 10:55

Tgt Ion:104 Resp: 498
Ion Ratio Lower Upper
104 100
78 0.0 38.2 57.4#
103 24.7 44.4 66.6#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN0
Ion 103.00 (102.70 to 103.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050978.D

Acq: 31 Aug 2018 10:55

Instrument :

MSVOA_N

ClientSampled :

VN0831WBL01

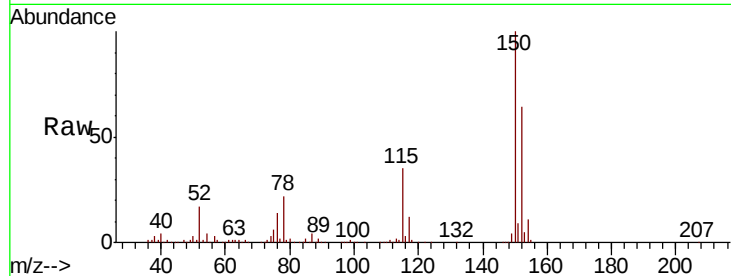
Tot Ion:152 Resp: 245235

Ion Ratio Lower Upper

152 100

115 55.7 27.8 83.4

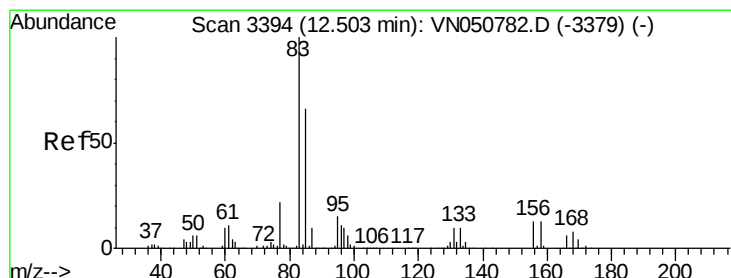
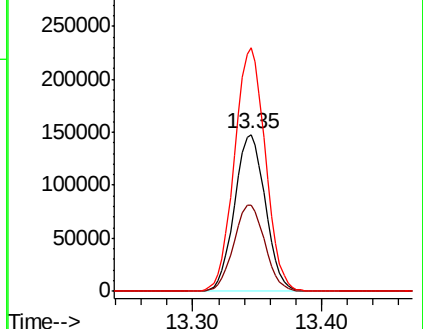
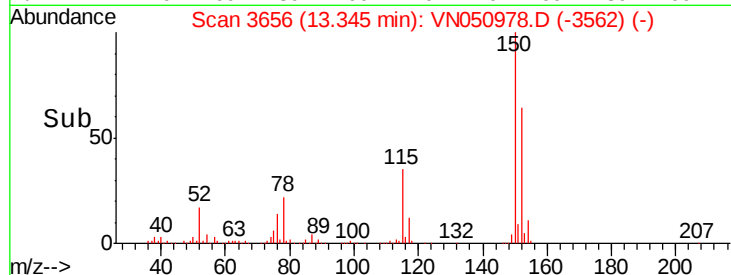
150 155.9 0.0 351.4



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



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN050978.D

Acq: 31 Aug 2018 10:55

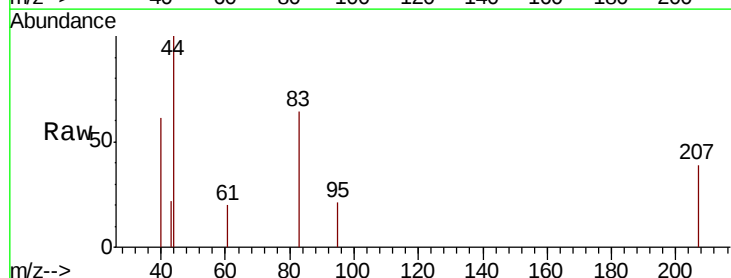
Tgt Ion: 83 Resp: 510

Ion Ratio Lower Upper

83 100

131 0.0 5.3 15.9#

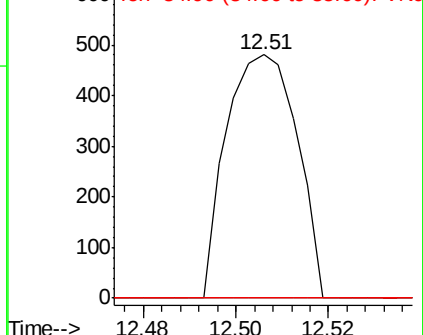
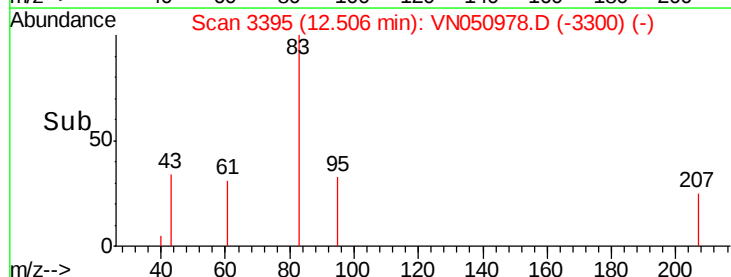
85 0.0 31.9 95.7#

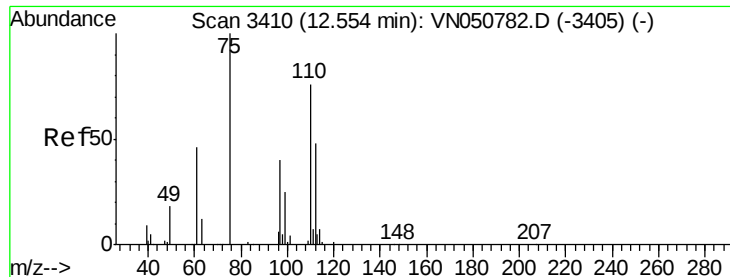


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 35.75 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050978.D

Acq: 31 Aug 2018 10:55

Instrument :

MSVOA_N

ClientSampleId :

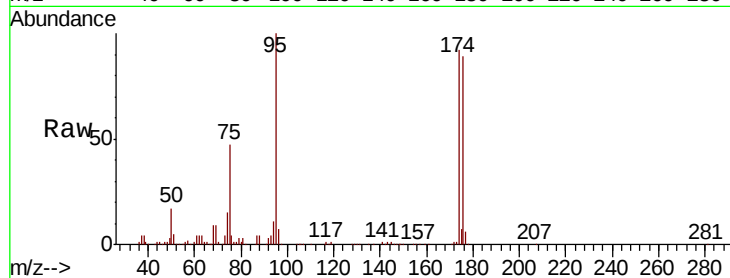
VN0831WBL01

Tot Ion: 75 Resp: 153568

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

100000

80000

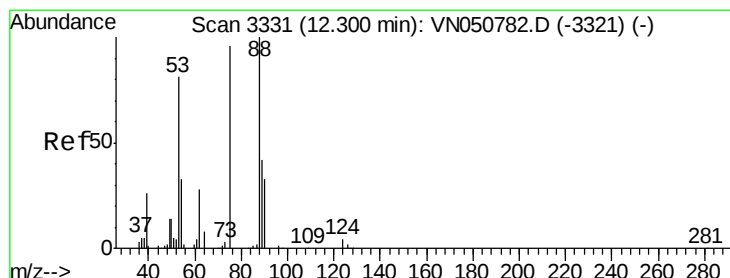
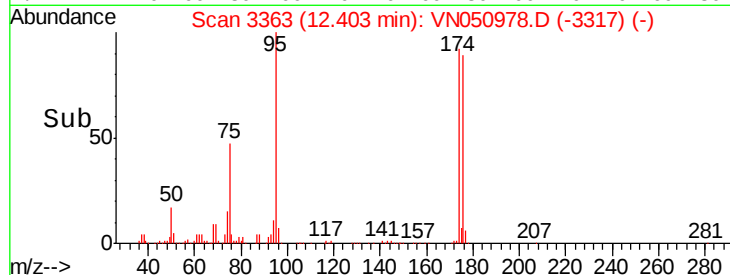
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 120.86 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050978.D

Acq: 31 Aug 2018 10:55

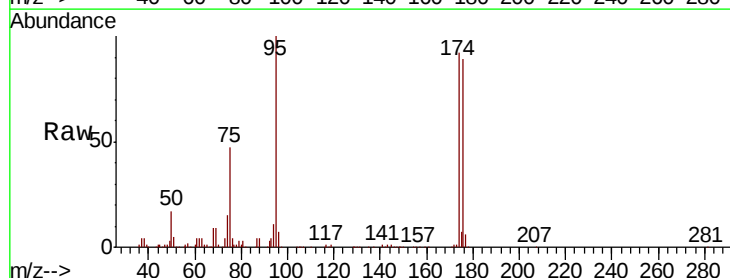
Tgt Ion: 75 Resp: 153568

Ion Ratio Lower Upper

75 100

53 0.1 68.9 103.3#

89 0.0 36.1 54.1#



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

120000

100000

80000

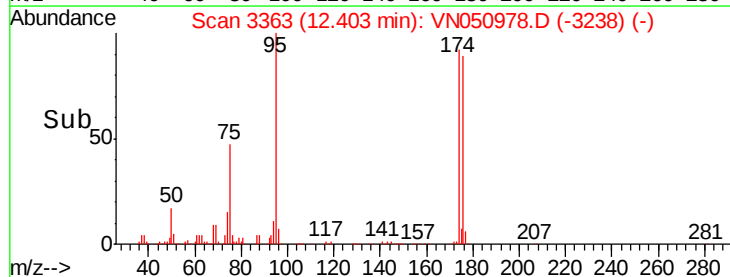
60000

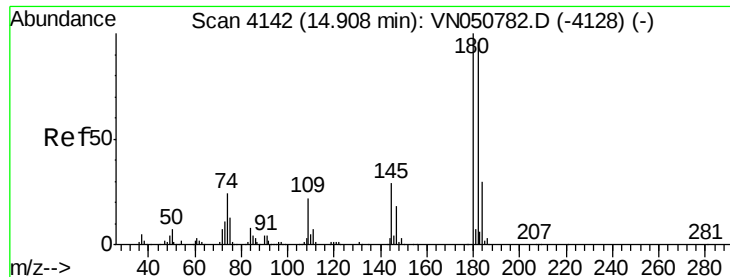
40000

20000

0

Time-->

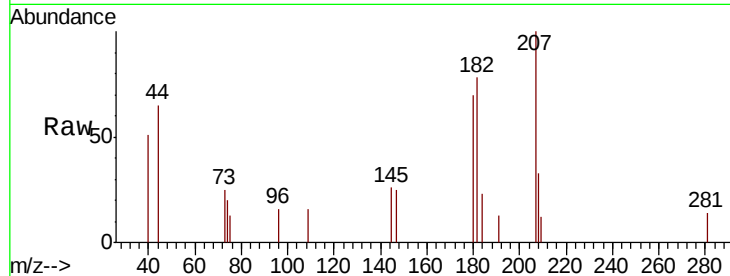




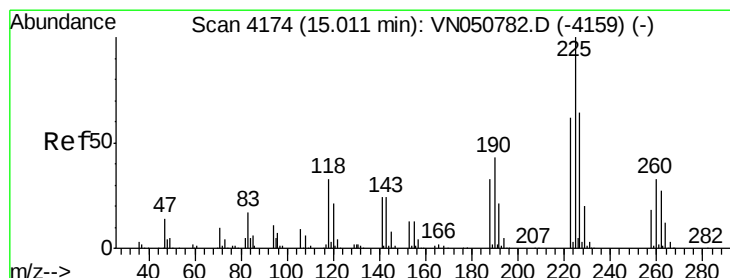
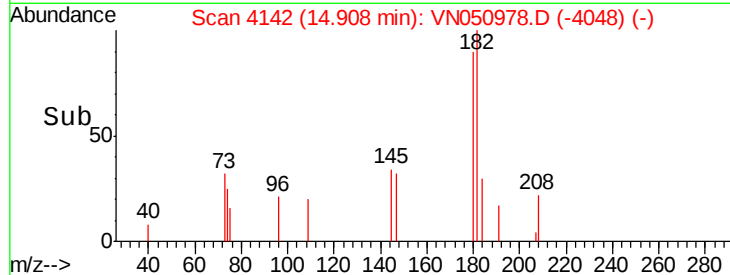
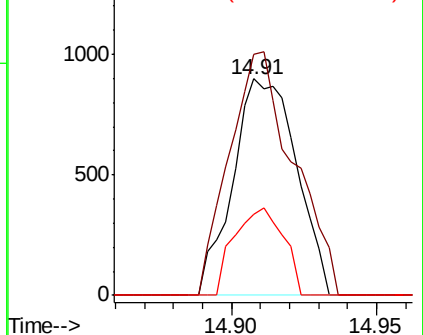
#93
 1,2,4-Trichlorobenzene
 Concen: 4.35 ug/l
 RT: 14.91 min Scan# 4142
 Delta R.T. 0.00 min
 Lab File: VN050978.D
 Acq: 31 Aug 2018 10:55

Instrument :
 MSVOA_N
 ClientSampled :
 VN0831WBL01

Tot Ion:180 Resp: 1369
 Ion Ratio Lower Upper
 180 100
 182 113.4 48.2 144.6
 145 31.2 14.1 42.2

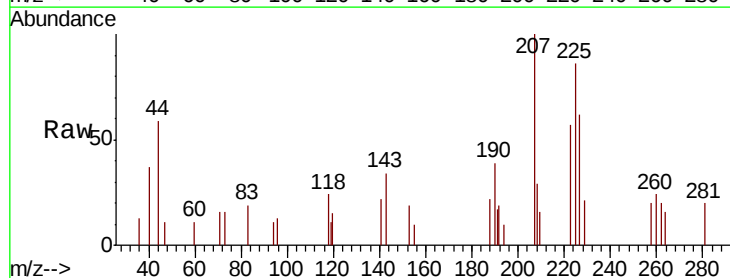


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

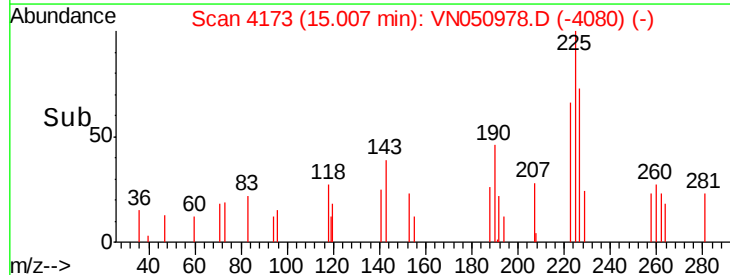
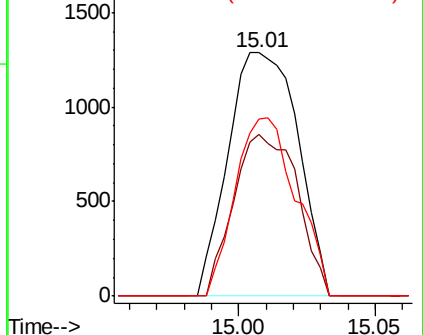


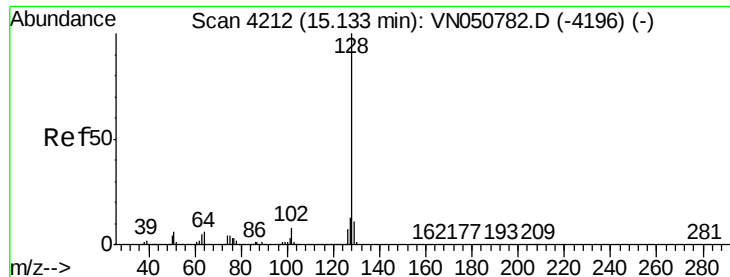
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4173
 Delta R.T. -0.00 min
 Lab File: VN050978.D
 Acq: 31 Aug 2018 10:55

Tgt Ion:225 Resp: 2292
 Ion Ratio Lower Upper
 225 100
 223 60.7 31.3 93.8
 227 63.7 32.0 96.2



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 5.72 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN050978.D

Acq: 31 Aug 2018 10:55

Instrument :

MSVOA_N

ClientSampleId :

VN0831WBL01

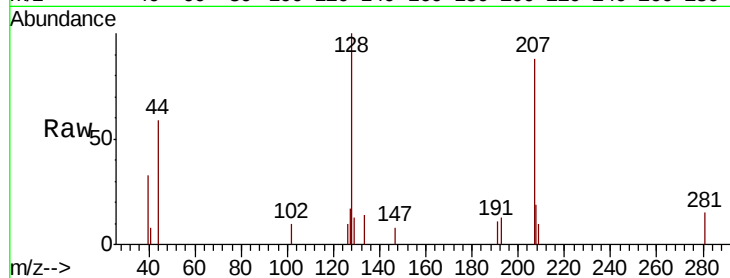
Tot Ion:128 Resp: 3521

Ion Ratio Lower Upper

128 100

127 18.4 10.5 15.7#

129 11.2 8.7 13.1

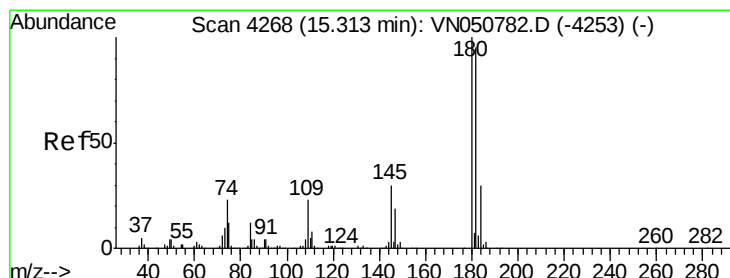
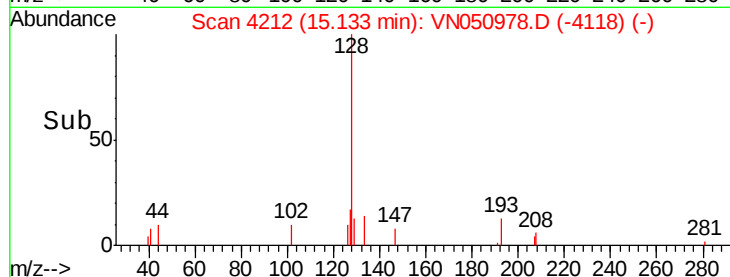
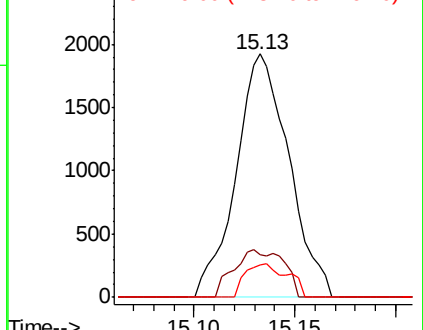


Abundance

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



#96

1,2,3-Trichlorobenzene

Concen: 3.75 ug/l

RT: 15.31 min Scan# 4268

Delta R.T. 0.00 min

Lab File: VN050978.D

Acq: 31 Aug 2018 10:55

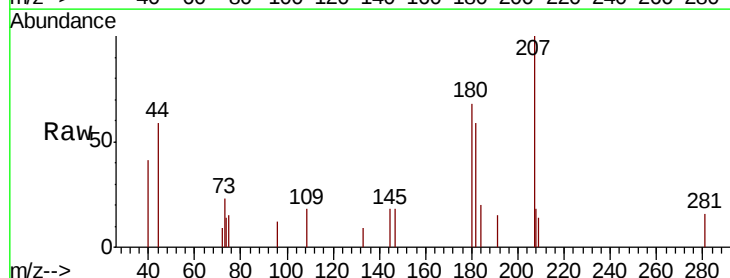
Tgt Ion:180 Resp: 2146

Ion Ratio Lower Upper

180 100

182 91.6 48.0 144.2

145 27.6 15.2 45.6



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

