

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091518\
 Data File : VN051224.D
 Acq On : 15 Sep 2018 15:55
 Operator : MD\SY
 Sample : PB112879ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

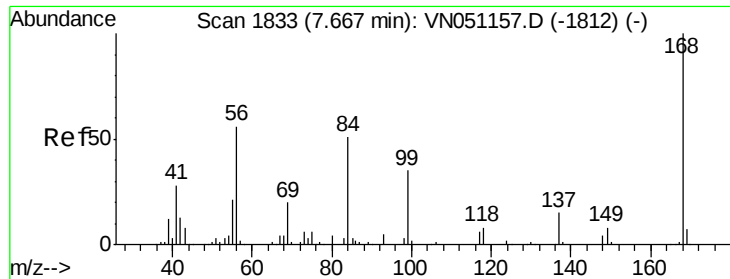
Quant Time: Sep 17 02:15:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 02:27:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	428015	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	682468	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	539581	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	161083	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	232936	48.90	ug/l	0.00
Spiked Amount			Recovery	=	97.80%	
35) Dibromofluoromethane	7.59	113	250082	48.77	ug/l	0.00
Spiked Amount			Recovery	=	97.54%	
50) Toluene-d8	10.09	98	851546	43.76	ug/l	0.00
Spiked Amount			Recovery	=	87.52%	
62) 4-Bromofluorobenzene	12.40	95	218447	33.94	ug/l	0.00
Spiked Amount			Recovery	=	67.88%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	1844	Below Cal		98
5) Bromomethane	2.58	94	2409	Below Cal	#	79
10) Methyl Iodide	3.96	142	541	5.74	ug/l #	44
11) Tert butyl alcohol	4.79	59	102	0.28	ug/l #	73
16) Acetone	3.82	43	8258	1.20	ug/l	93
17) Carbon Disulfide	4.05	76	1655	0.24	ug/l #	76
18) Methyl Acetate	4.34	43	11432	3.00	ug/l #	90
20) Methylene Chloride	4.55	84	5946	1.13	ug/l	97
25) 2-Butanone	6.85	43	5166	2.76	ug/l #	84
29) Tetrahydrofuran	7.23	42	927	0.79	ug/l #	45
31) Cyclohexane	7.67	56	6990	0.67	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	27357	3.65	ug/l #	47
38) Carbon Tetrachloride	7.67	117	36943	5.01	ug/l #	17
43) Isopropyl Acetate	8.17	43	234023	30.56	ug/l #	81
48) Methyl methacrylate	9.18	41	5667	1.52	ug/l #	16
51) 4-Methyl-2-Pentanone	9.99	43	935	0.22	ug/l	90
54) cis-1,3-Dichloropropene	9.90	75	1773	0.21	ug/l #	72
56) Ethyl methacrylate	10.27	69	179	2.48	ug/l #	1
59) 2-Hexanone	10.77	43	13643	4.75	ug/l	61
75) 1,1,2,2-Tetrachloroethane	12.41	83	68	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	101800	40.48	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	101800	120.02	ug/l #	15
95) Naphthalene	15.13	128	440	5.41	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051224.D

Acq: 15 Sep 2018 15:55

Instrument :

MSVOA_N

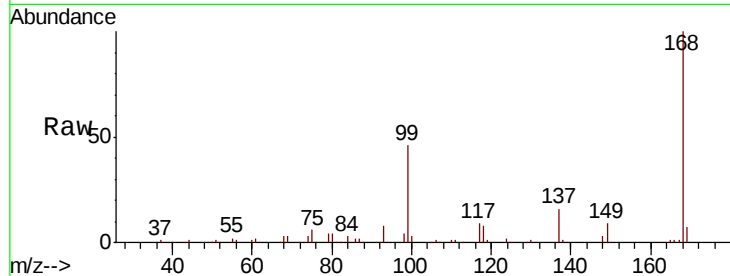
ClientSampleId :

Tot Ion:168 Resp: 428015

Ion Ratio Lower Upper

168 100

99 46.2 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

200000

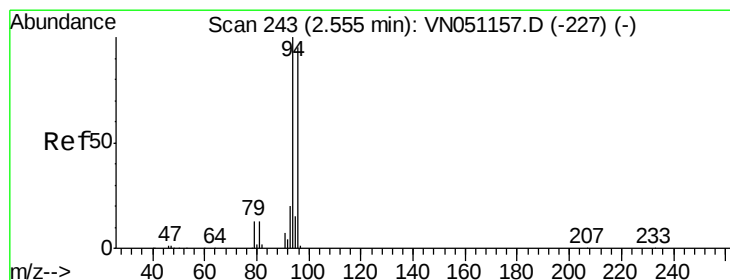
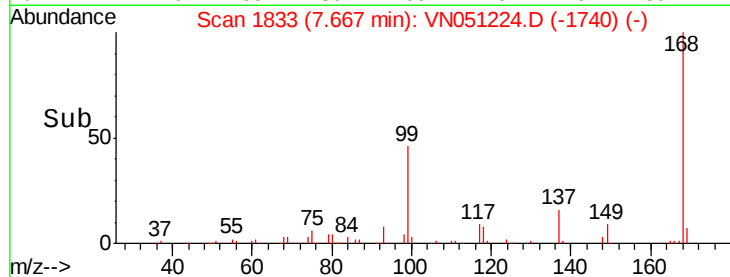
150000

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN051224.D

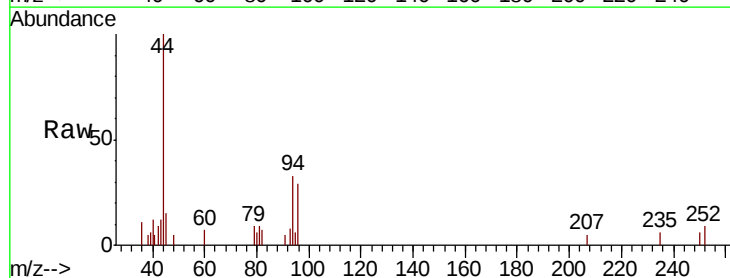
Acq: 15 Sep 2018 15:55

Tgt Ion: 94 Resp: 2409

Ion Ratio Lower Upper

94 100

96 74.4 75.9 113.9#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

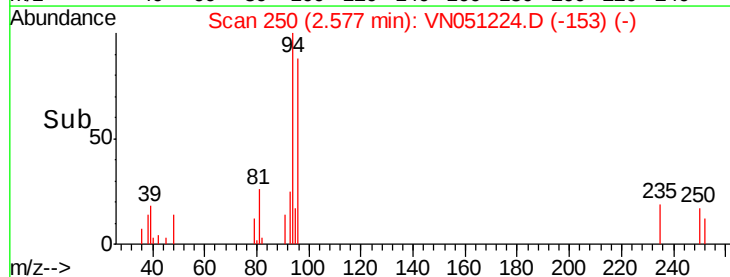
2.58

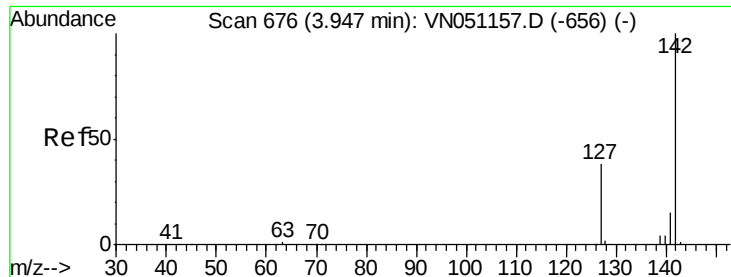
1000

500

0

Time--> 2.55 2.60

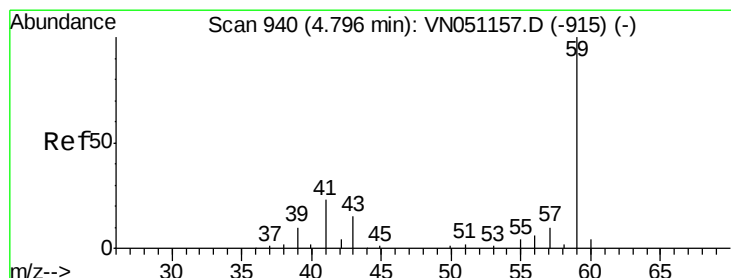
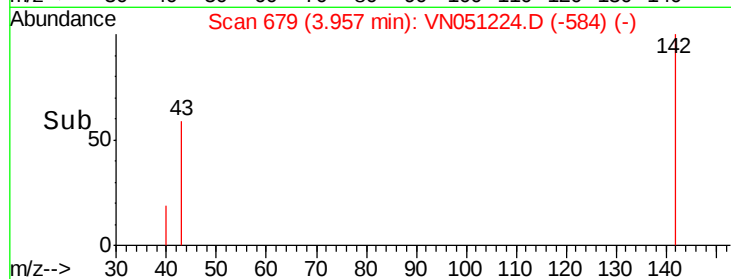
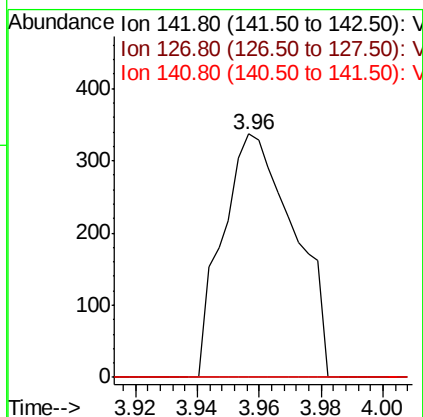
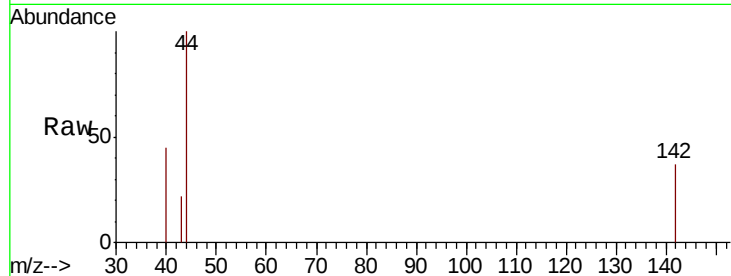




#10
Methvl Iodide
Concen: 5.74 ug/l
RT: 3.96 min Scan# 679
Delta R.T. 0.01 min
Lab File: VN051224.D
Acq: 15 Sep 2018 15:55

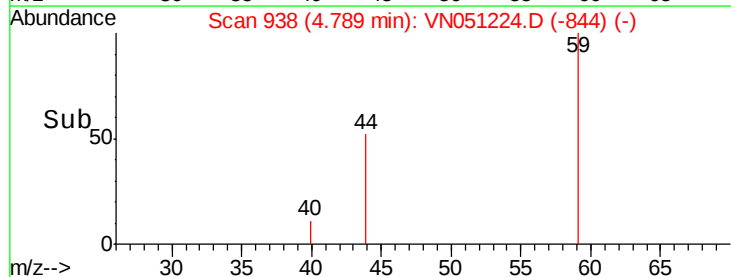
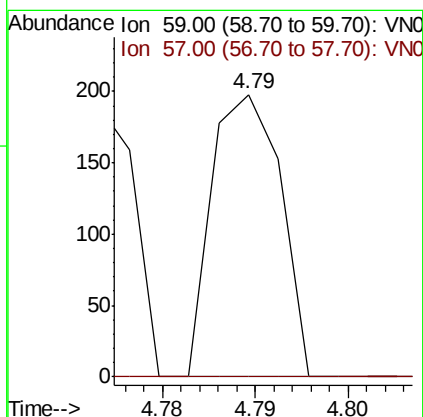
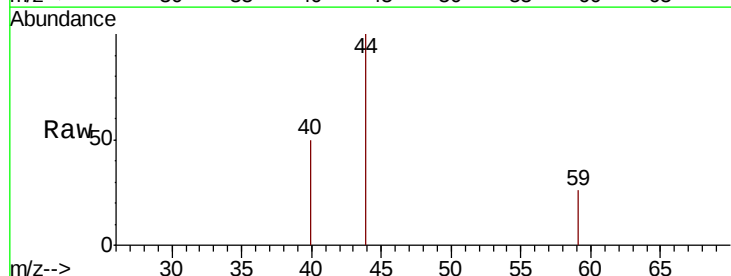
Instrument :
MSVOA_N
ClientSampled :

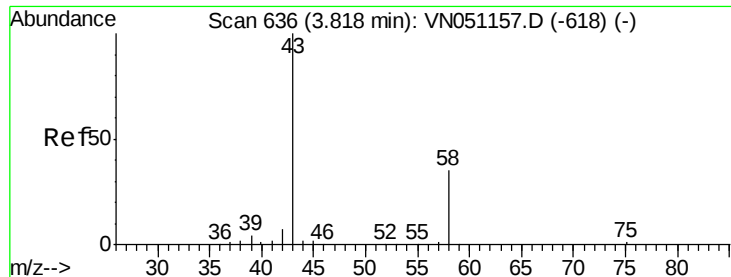
Tot Ion:142 Resp: 541
Ion Ratio Lower Upper
142 100
127 0.0 31.0 46.4#
141 0.0 11.3 16.9#



#11
Tert butyl alcohol
Concen: 0.28 ug/l
RT: 4.79 min Scan# 938
Delta R.T. 0.00 min
Lab File: VN051224.D
Acq: 15 Sep 2018 15:55

Tgt Ion: 59 Resp: 102
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#





#16

Acetone

Concen: 1.20 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051224.D

Acq: 15 Sep 2018 15:55

Instrument :

MSVOA_N

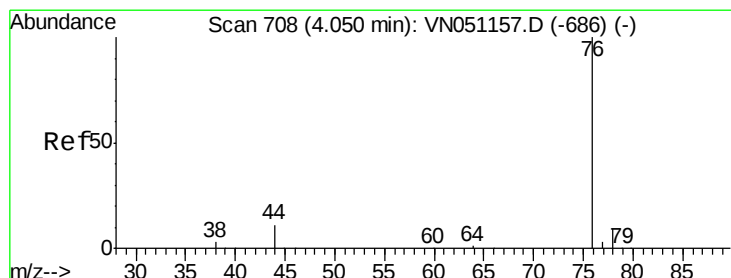
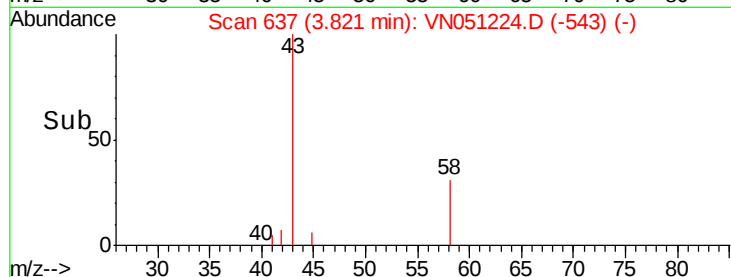
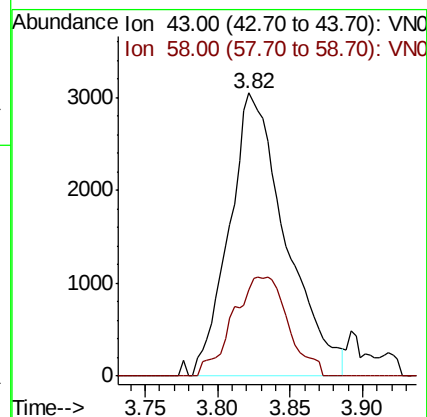
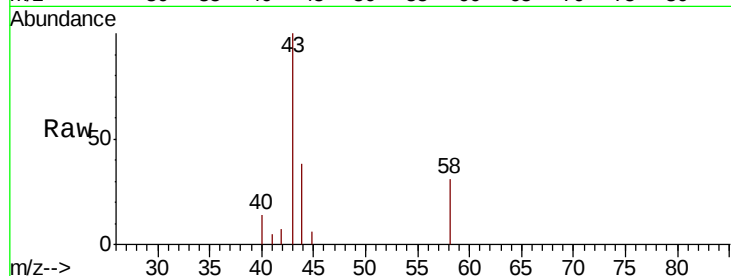
ClientSampled :

Tot Ion: 43 Resp: 8258

Ion Ratio Lower Upper

43 100

58 30.7 27.8 41.6



#17

Carbon Disulfide

Concen: 0.24 ug/l

RT: 4.05 min Scan# 709

Delta R.T. 0.00 min

Lab File: VN051224.D

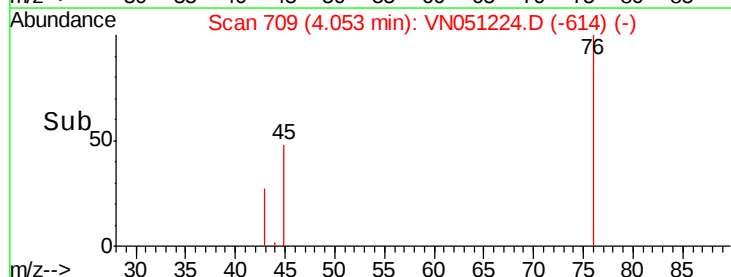
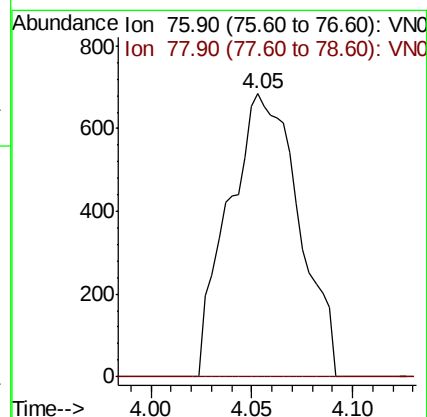
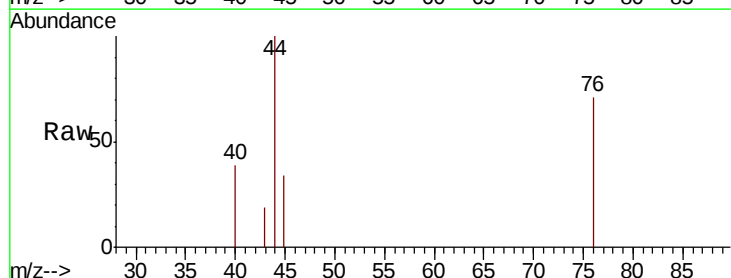
Acq: 15 Sep 2018 15:55

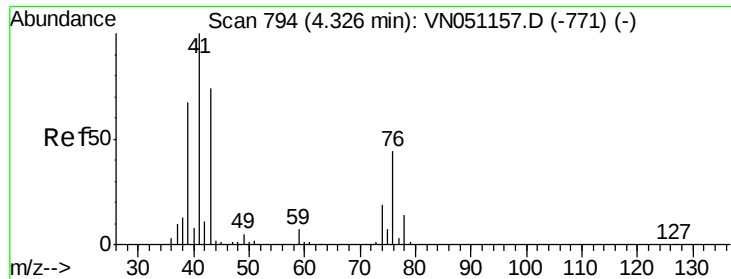
Tgt Ion: 76 Resp: 1655

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#

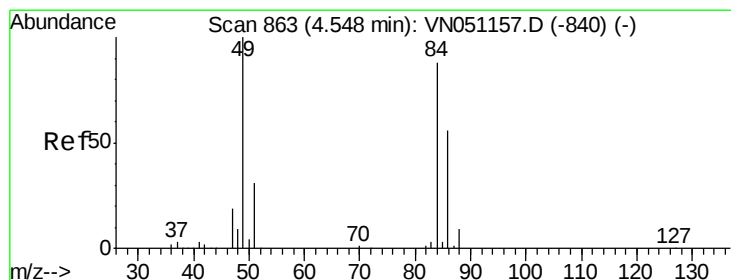
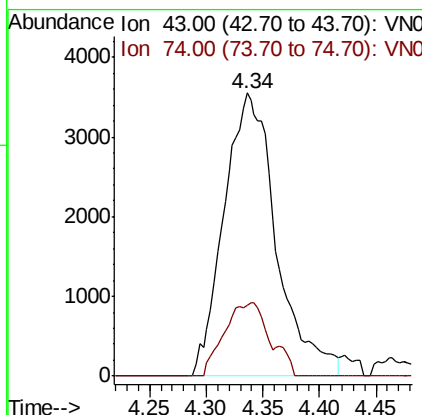
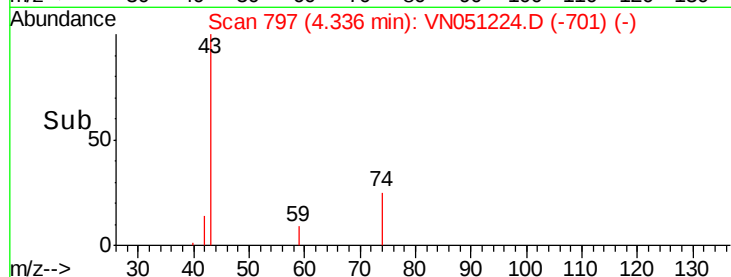
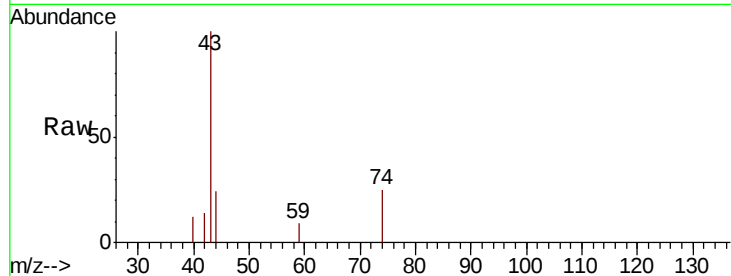




#18
Methyl Acetate
Concen: 3.00 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN051224.D
Acq: 15 Sep 2018 15:55

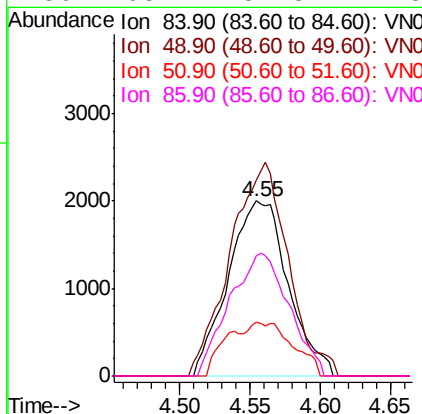
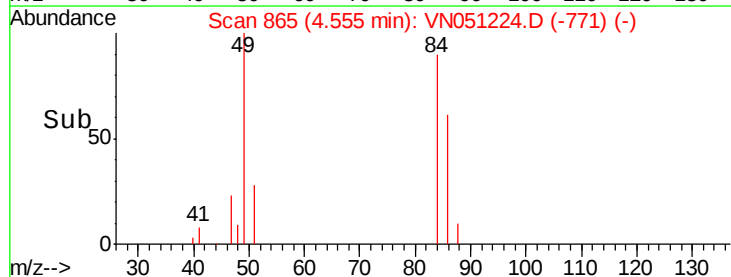
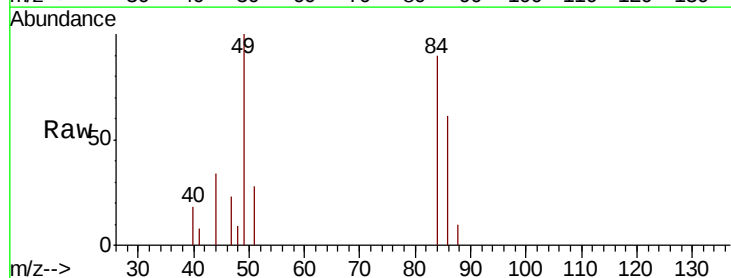
Instrument :
MSVOA_N
ClientSampleId :

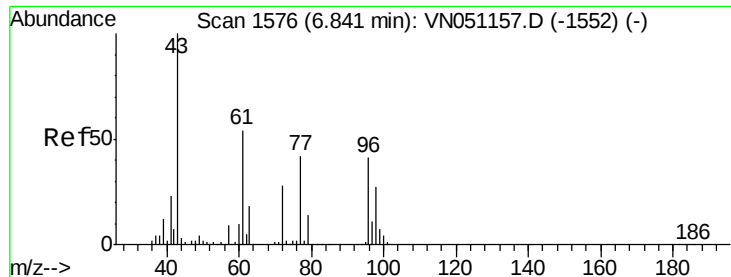
Tot Ion: 43 Resp: 11432
Ion Ratio Lower Upper
43 100
74 20.6 20.7 31.1#



#20
Methylene Chloride
Concen: 1.13 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051224.D
Acq: 15 Sep 2018 15:55

Tgt Ion: 84 Resp: 5946
Ion Ratio Lower Upper
84 100
49 111.5 90.2 135.2
51 31.1 28.4 42.6
86 68.4 51.8 77.8

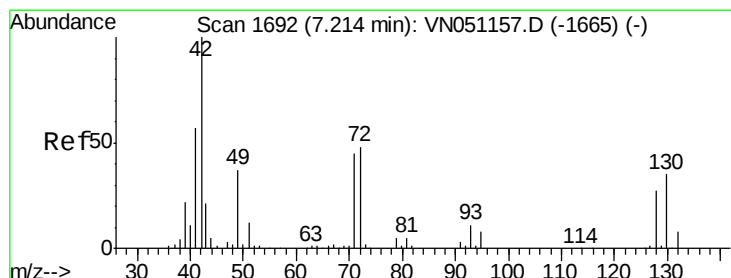
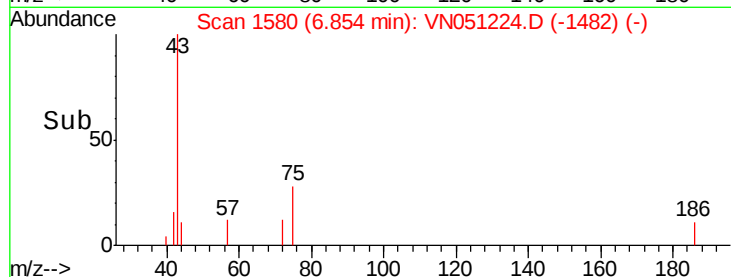
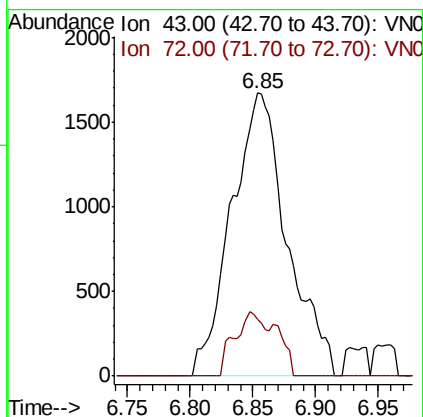
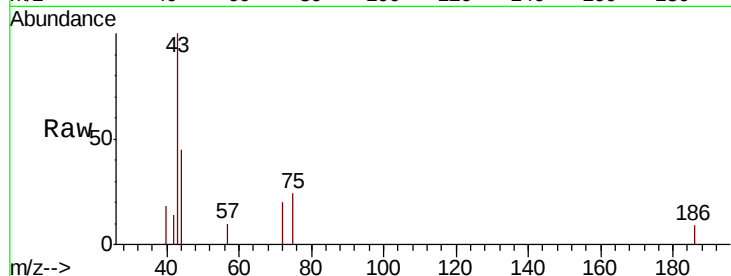




#25
 2-Butanone
 Concen: 2.76 ug/l
 RT: 6.85 min Scan# 1580
 Delta R.T. 0.02 min
 Lab File: VN051224.D
 Acq: 15 Sep 2018 15:55

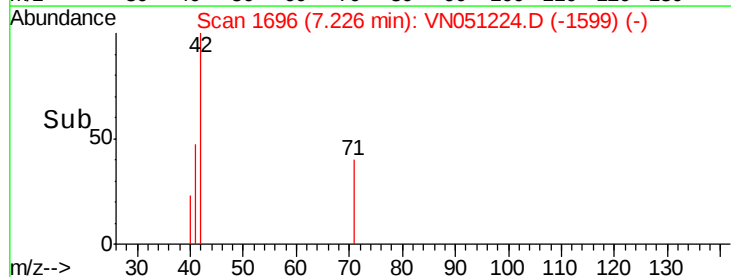
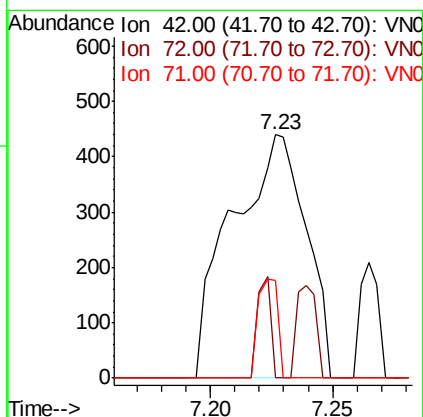
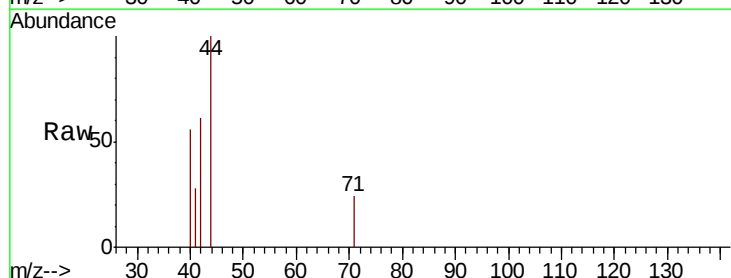
Instrument :
 MSVOA_N
 ClientSampled :

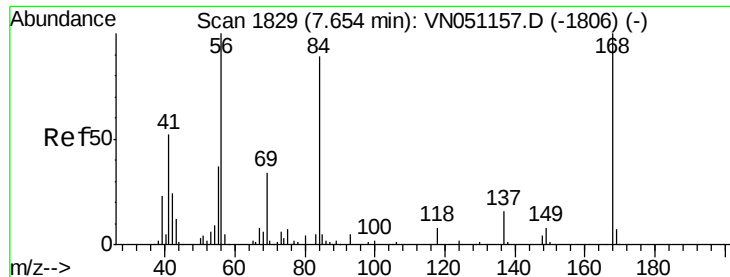
Tot Ion: 43 Resp: 5166
 Ion Ratio Lower Upper
 43 100
 72 20.3 23.0 34.6#



#29
 Tetrahydrofuran
 Concen: 0.79 ug/l
 RT: 7.23 min Scan# 1696
 Delta R.T. 0.01 min
 Lab File: VN051224.D
 Acq: 15 Sep 2018 15:55

Tgt Ion: 42 Resp: 927
 Ion Ratio Lower Upper
 42 100
 72 7.1 37.4 56.0#
 71 10.6 34.7 52.1#





#31

Cyclohexane

Concen: 0.67 ug/l

RT: 7.67 min Scan# 1835

Delta R.T. 0.02 min

Lab File: VN051224.D

Acq: 15 Sep 2018 15:55

Instrument :

MSVOA_N

ClientSampled :

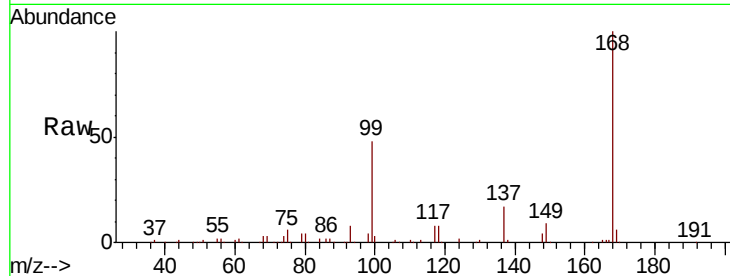
Tot Ion: 56 Resp: 6990

Ion Ratio Lower Upper

56 100

69 204.4 26.3 39.5#

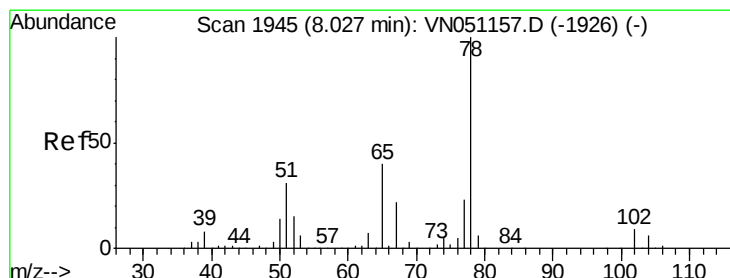
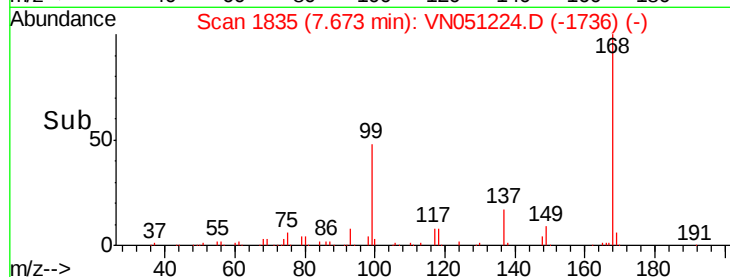
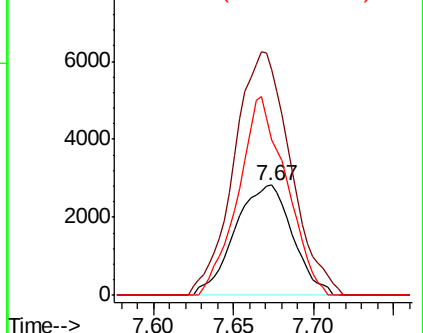
84 141.1 69.4 104.0#



Abundance Ion 56.00 (55.70 to 56.70): VN051157.D (-1806) (-)

Ion 69.00 (68.70 to 69.70): VN051157.D (-1806) (-)

Ion 84.00 (83.70 to 84.70): VN051157.D (-1806) (-)



#33

1,2-Dichloroethane-d4

Concen: 48.90 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051224.D

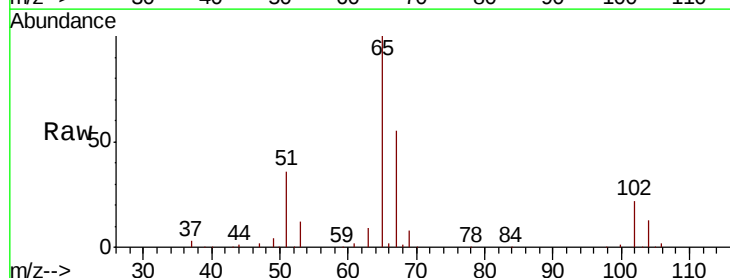
Acq: 15 Sep 2018 15:55

Tgt Ion: 65 Resp: 232936

Ion Ratio Lower Upper

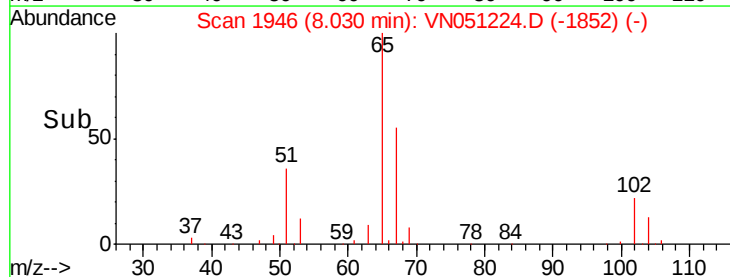
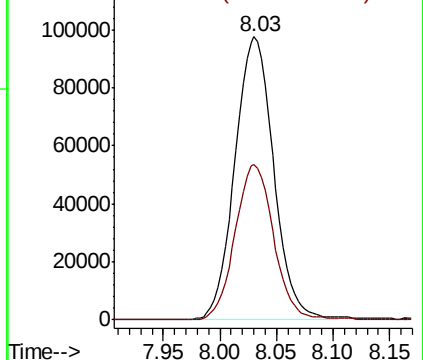
65 100

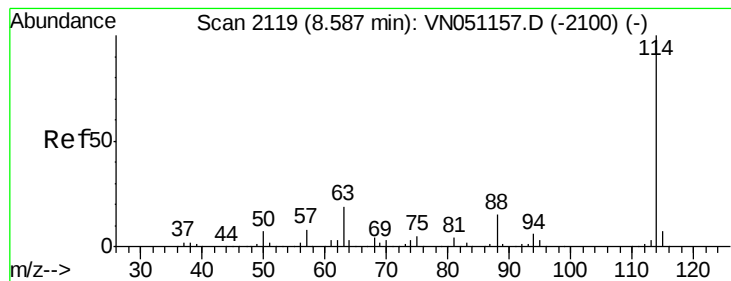
67 54.7 0.0 112.0



Abundance Ion 64.90 (64.60 to 65.60): VN051157.D (-1926) (-)

Ion 66.90 (66.60 to 67.60): VN051157.D (-1926) (-)





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051224.D

Acq: 15 Sep 2018 15:55

Instrument :

MSVOA_N

ClientSampleId :

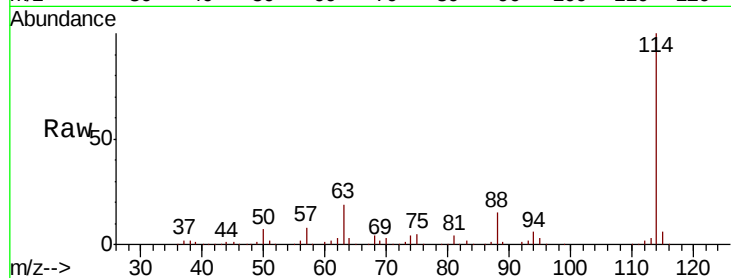
Tot Ion:114 Resp: 682468

Ion Ratio Lower Upper

114 100

63 18.9 0.0 37.8

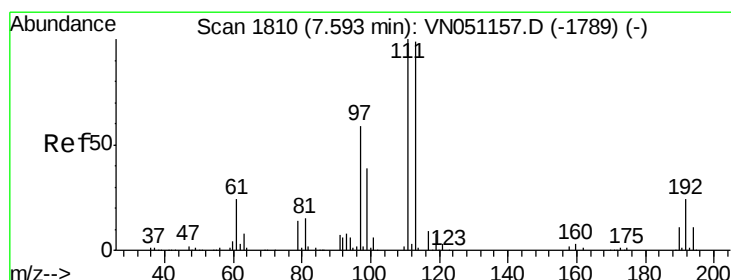
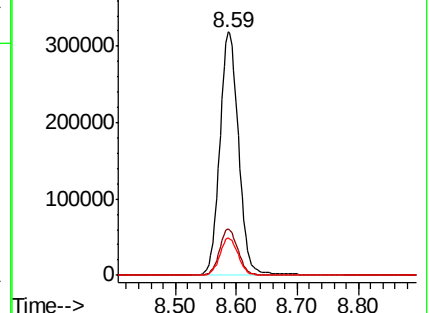
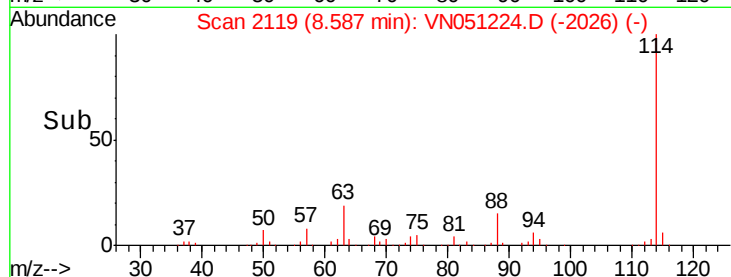
88 15.3 0.0 30.8



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: 48.77 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN051224.D

Acq: 15 Sep 2018 15:55

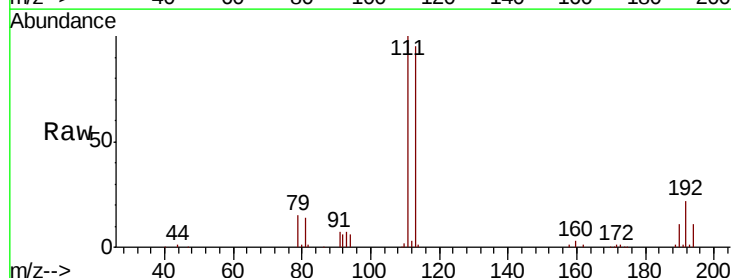
Tgt Ion:113 Resp: 250082

Ion Ratio Lower Upper

113 100

111 102.6 83.0 124.6

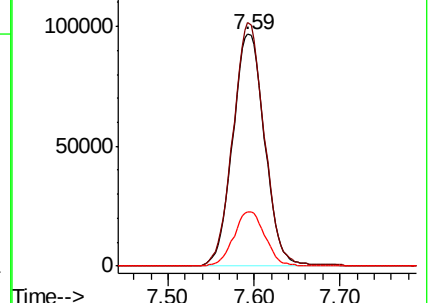
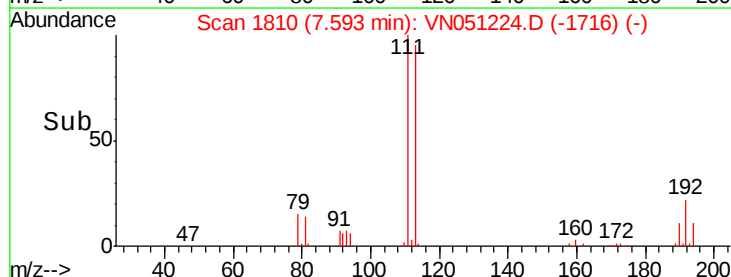
192 23.0 18.7 28.1

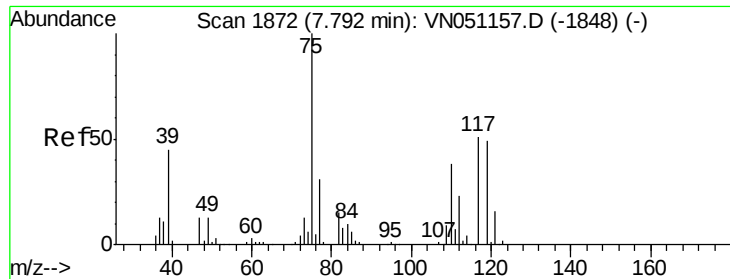


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

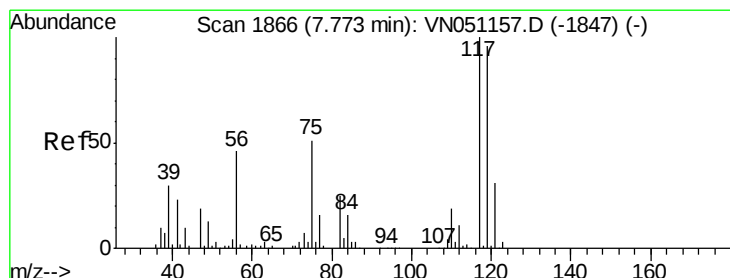
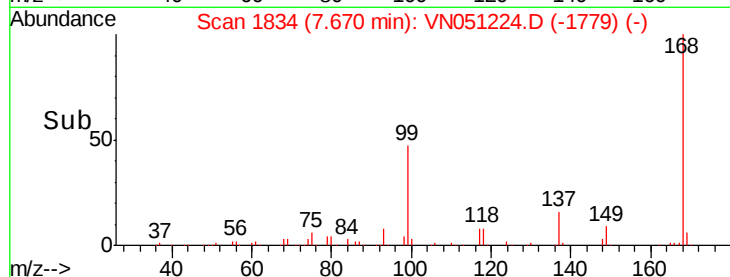
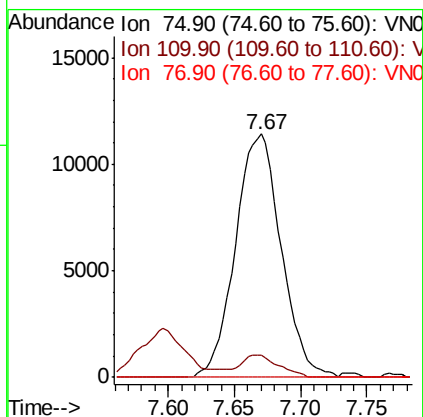
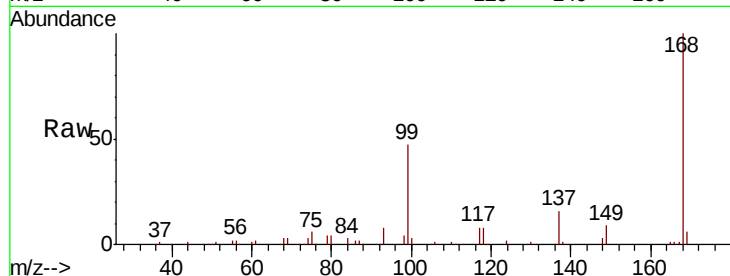




#36
 1,1-Dichloropropene
 Concen: 3.65 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN051224.D
 Acq: 15 Sep 2018 15:55

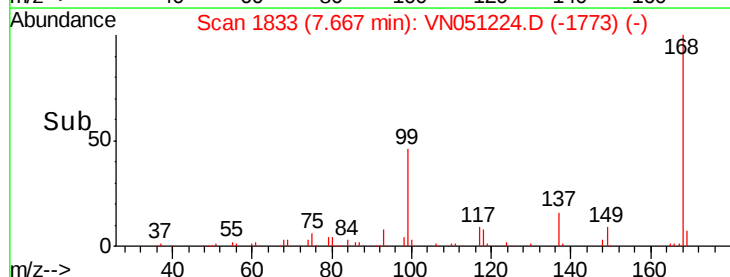
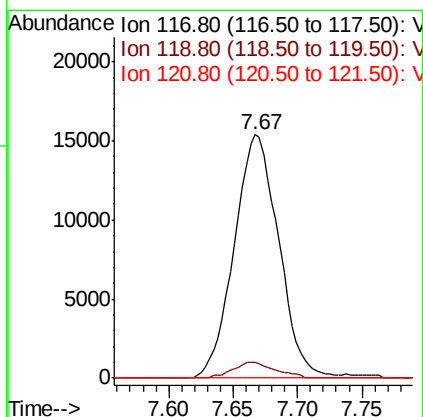
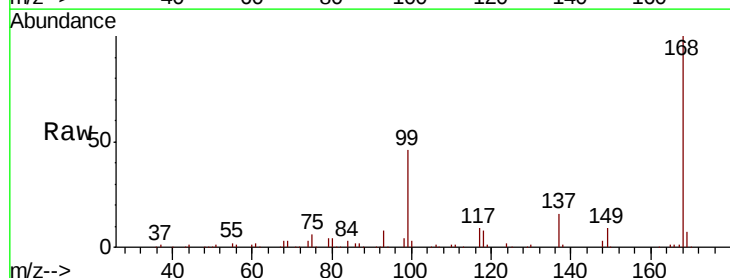
Instrument :
 MSVOA_N
 ClientSampleId :

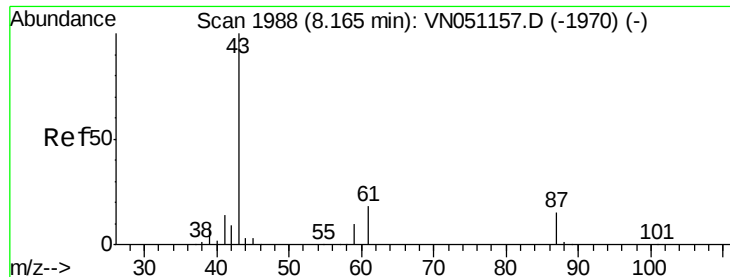
Tot Ion: 75 Resp: 27357
 Ion Ratio Lower Upper
 75 100
 110 7.4 18.6 55.8#
 77 0.0 25.2 37.8#



#38
 Carbon Tetrachloride
 Concen: 5.01 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN051224.D
 Acq: 15 Sep 2018 15:55

Tgt Ion: 117 Resp: 36943
 Ion Ratio Lower Upper
 117 100
 119 6.3 76.8 115.2#
 121 0.0 24.6 36.8#



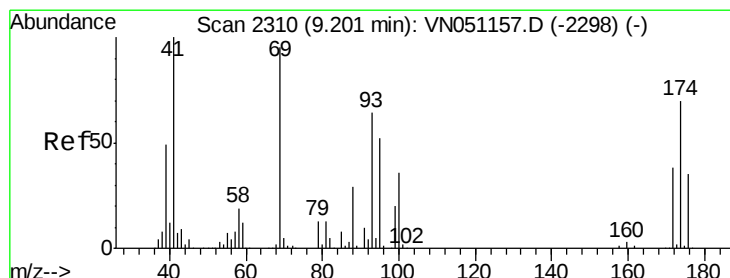
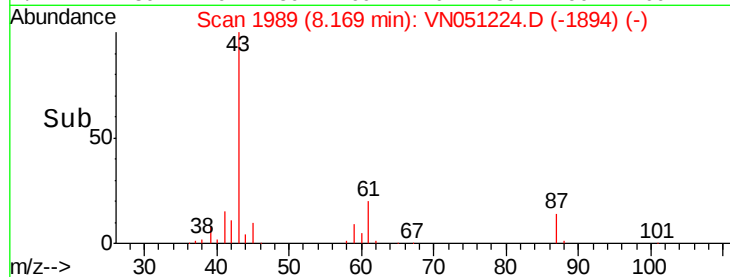
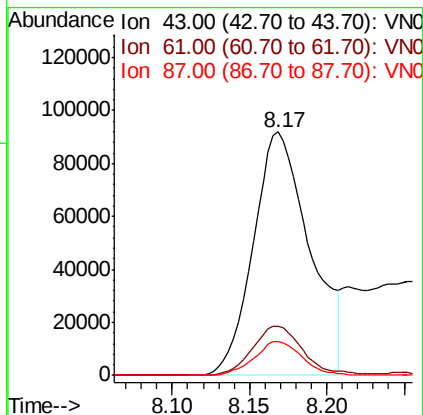
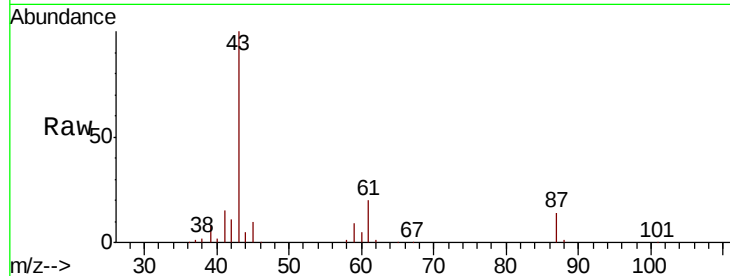


#43

Isopropyl Acetate
 Concen: 30.56 ug/l
 RT: 8.17 min Scan# 1989
 Delta R.T. 0.01 min
 Lab File: VN051224.D
 Acq: 15 Sep 2018 15:55

Instrument :
 MSVOA_N
 ClientSampled :

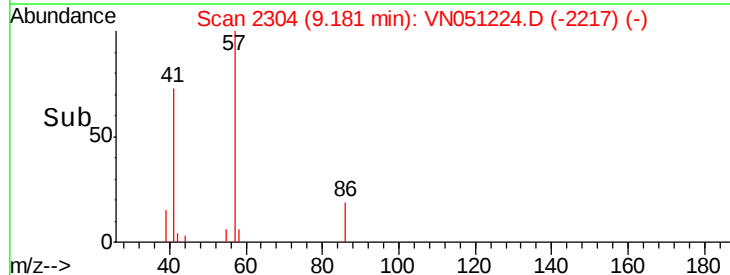
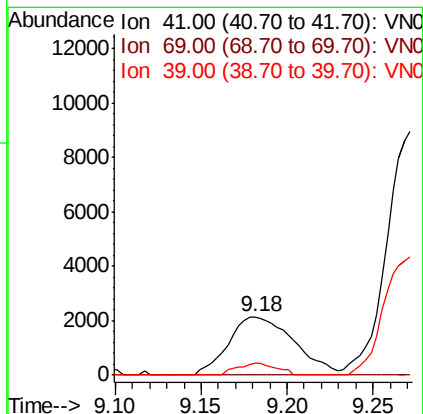
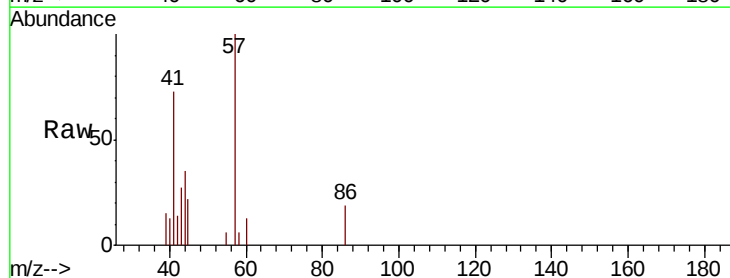
Tot Ion: 43 Resp: 234023
 Ion Ratio Lower Upper
 43 100
 61 18.1 25.0 37.6#
 87 11.8 11.8 17.8#

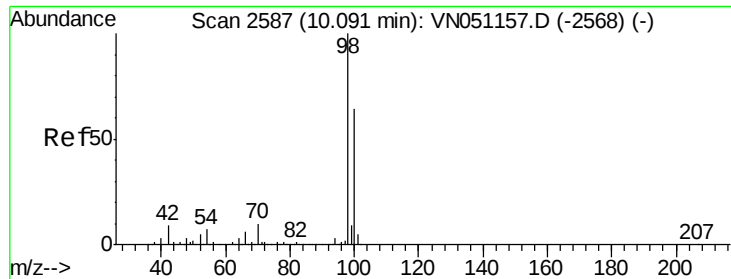


#48

Methyl methacrylate
 Concen: 1.52 ug/l
 RT: 9.18 min Scan# 2304
 Delta R.T. -0.02 min
 Lab File: VN051224.D
 Acq: 15 Sep 2018 15:55

Tgt Ion: 41 Resp: 5667
 Ion Ratio Lower Upper
 41 100
 69 0.0 77.7 116.5#
 39 12.1 41.6 62.4#





#50

Toluene-d8

Concen: 43.76 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051224.D

Acq: 15 Sep 2018 15:55

Instrument :

MSVOA_N

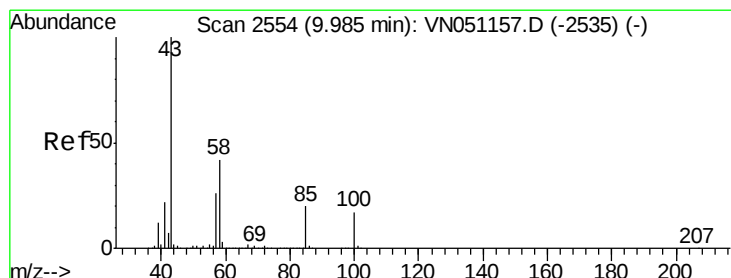
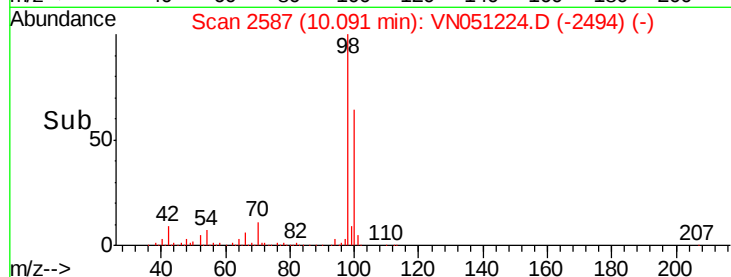
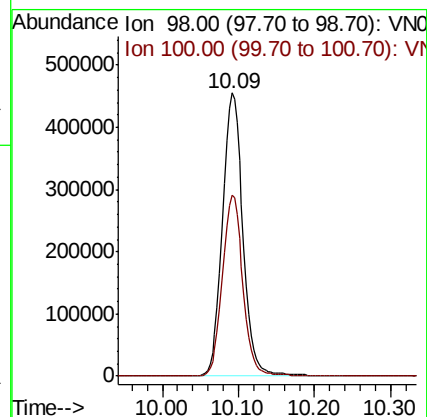
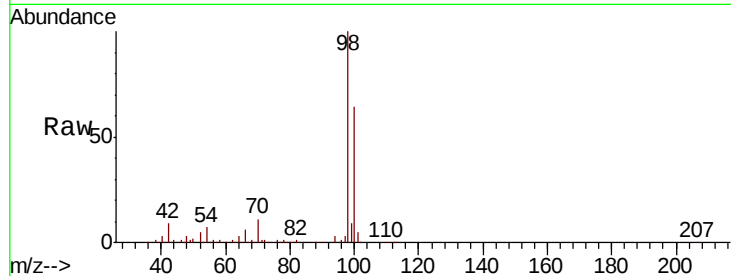
ClientSampled :

Tot Ion: 98 Resp: 851546

Ion Ratio Lower Upper

98 100

100 63.9 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 0.22 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN051224.D

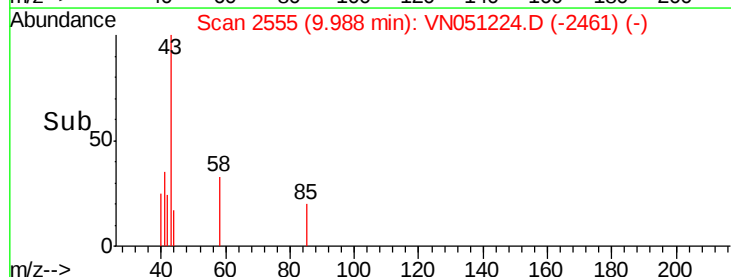
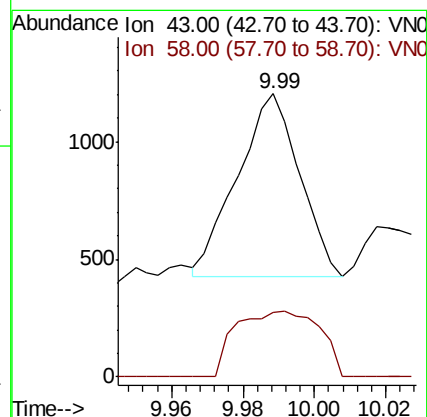
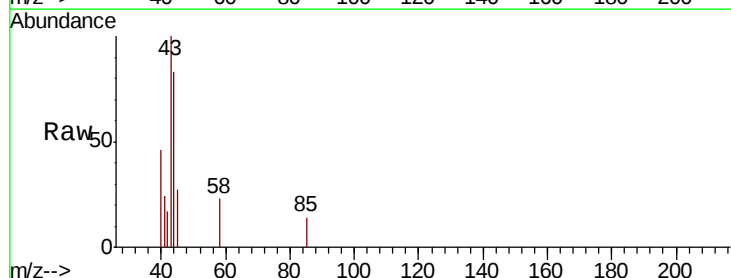
Acq: 15 Sep 2018 15:55

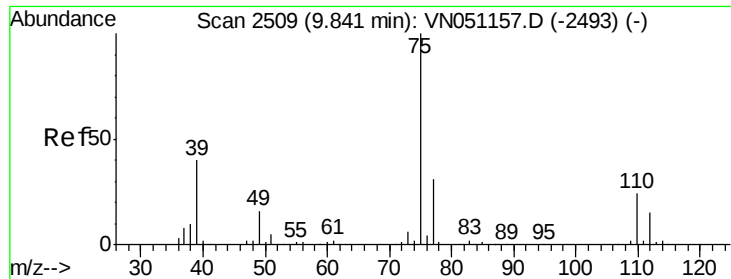
Tgt Ion: 43 Resp: 935

Ion Ratio Lower Upper

43 100

58 48.4 33.5 50.3





#54

cis-1,3-Dichloropropene

Concen: 0.21 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN051224.D

Acq: 15 Sep 2018 15:55

Instrument :

MSVOA_N

ClientSampleId :

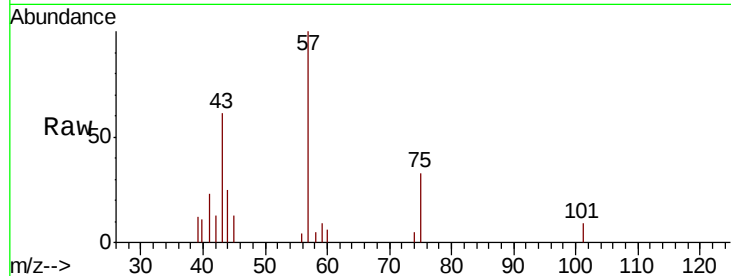
Tot Ion: 75 Resp: 1773

Ion Ratio Lower Upper

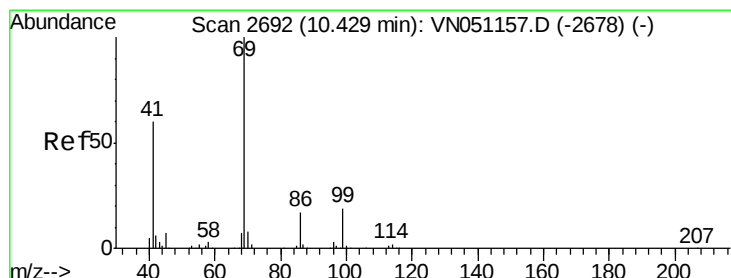
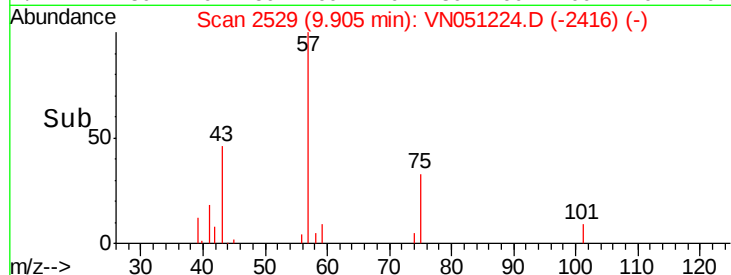
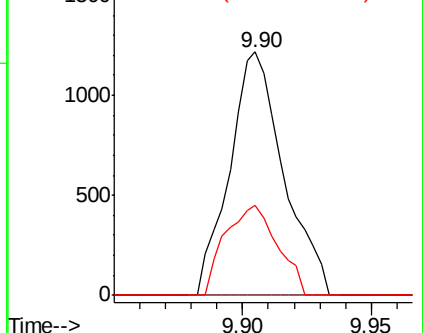
75 100

77 0.0 25.7 38.5#

39 37.1 31.9 47.9



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 76.90 (76.60 to 77.60): VNO
Ion 39.00 (38.70 to 39.70): VNO



#56

Ethyl methacrylate

Concen: 2.48 ug/l

RT: 10.27 min Scan# 2643

Delta R.T. -0.16 min

Lab File: VN051224.D

Acq: 15 Sep 2018 15:55

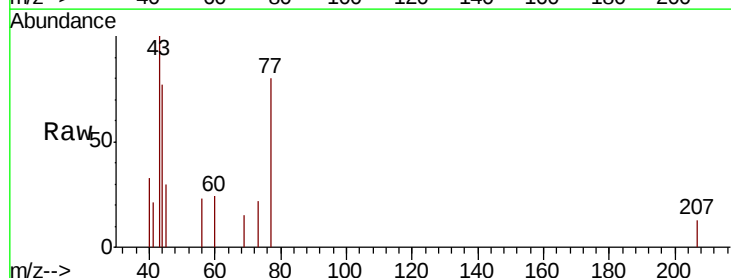
Tgt Ion: 69 Resp: 179

Ion Ratio Lower Upper

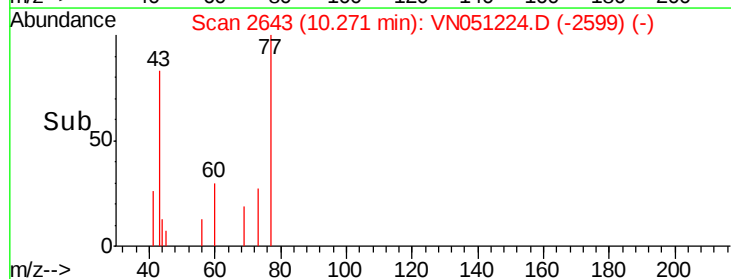
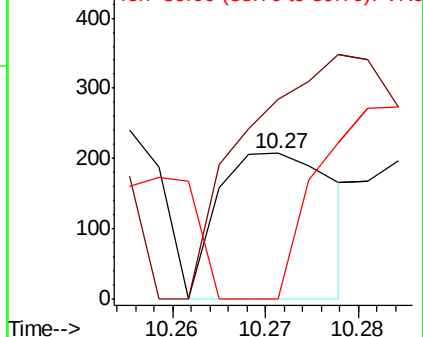
69 100

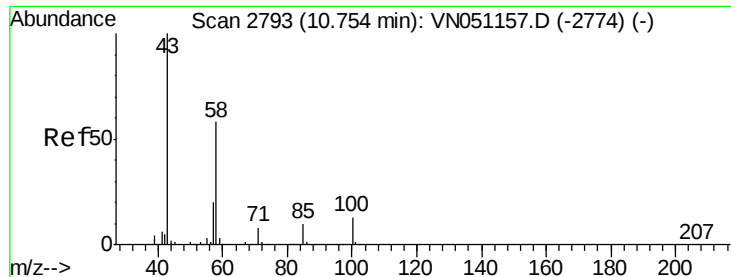
41 240.2 47.8 71.8#

39 124.6 23.0 34.4#



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





#59

2-Hexanone

Concen: 4.75 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.02 min

Lab File: VN051224.D

Acq: 15 Sep 2018 15:55

Instrument :

MSVOA_N

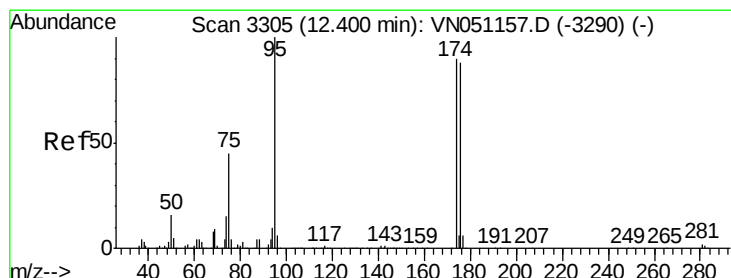
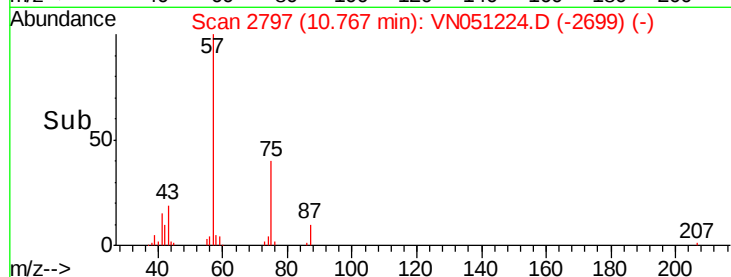
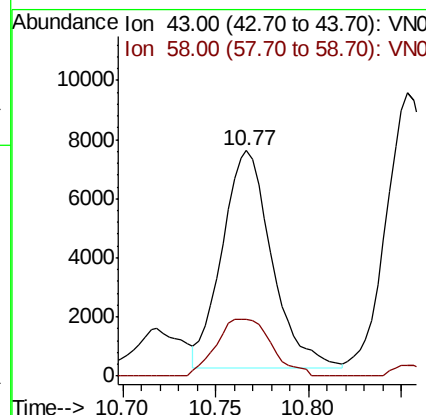
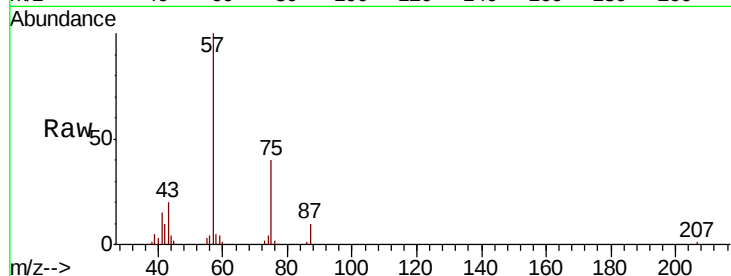
ClientSampleId :

Tot Ion: 43 Resp: 13643

Ion Ratio Lower Upper

43 100

58 29.4 29.3 88.0



#62

4-Bromofluorobenzene

Concen: 33.94 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051224.D

Acq: 15 Sep 2018 15:55

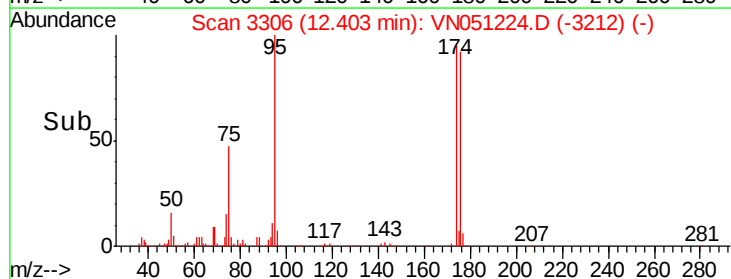
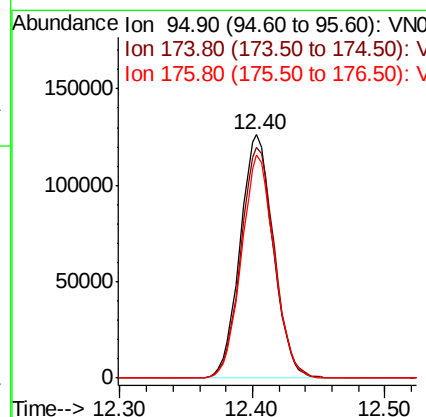
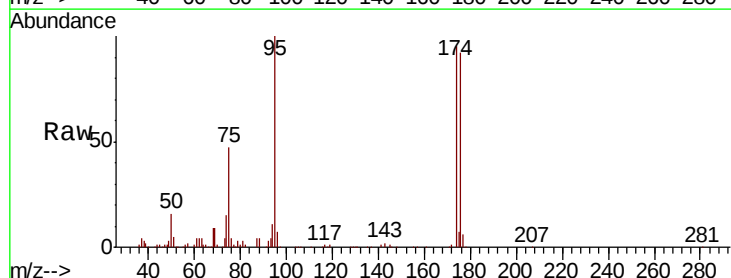
Tgt Ion: 95 Resp: 218447

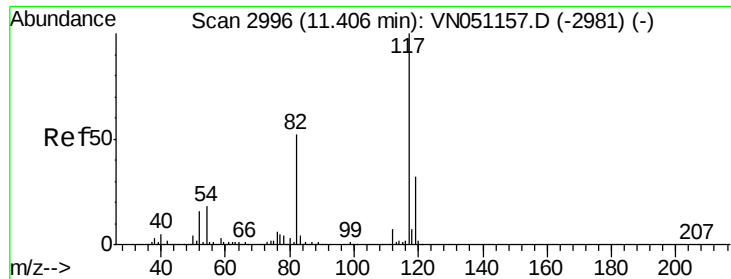
Ion Ratio Lower Upper

95 100

174 96.9 0.0 184.8

176 91.4 0.0 178.6





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051224.D

Acq: 15 Sep 2018 15:55

Instrument :

MSVOA_N

ClientSampleId :

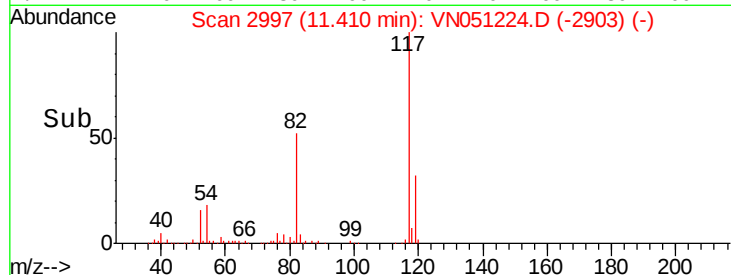
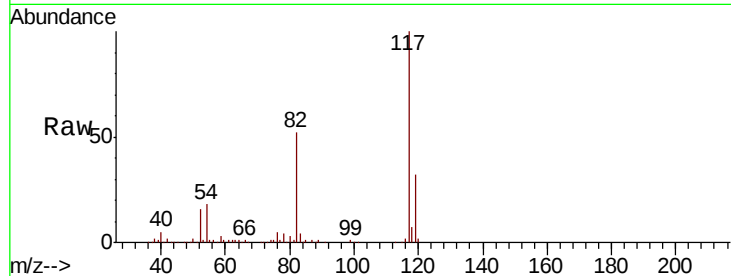
Tot Ion:117 Resp: 539581

Ion Ratio Lower Upper

117 100

82 52.2 41.8 62.6

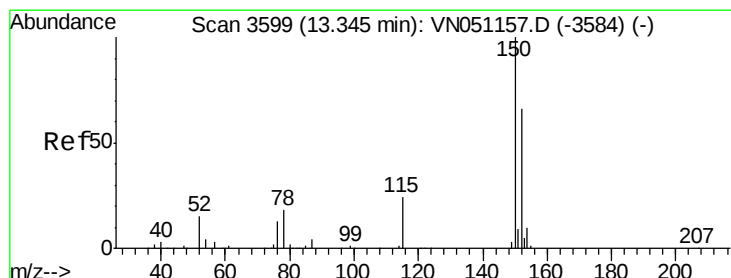
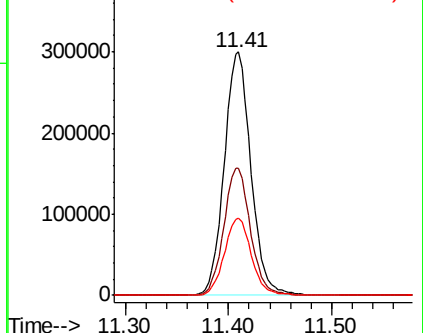
119 31.9 26.2 39.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051224.D

Acq: 15 Sep 2018 15:55

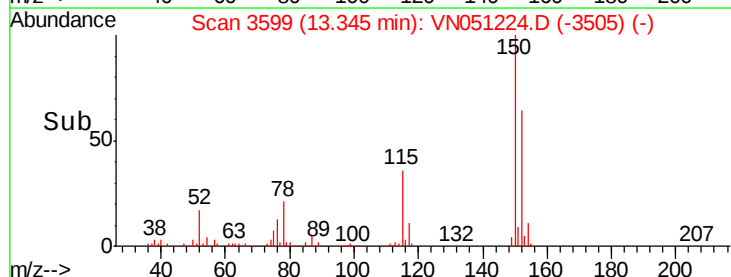
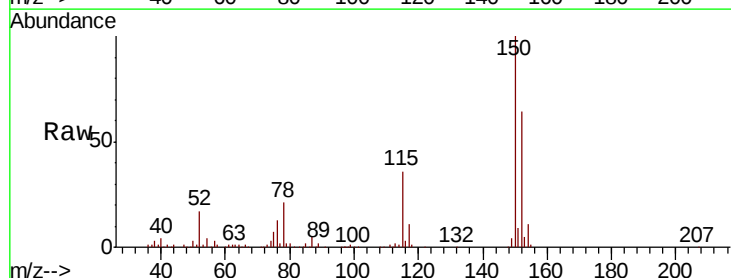
Tgt Ion:152 Resp: 161083

Ion Ratio Lower Upper

152 100

115 55.4 28.2 84.7

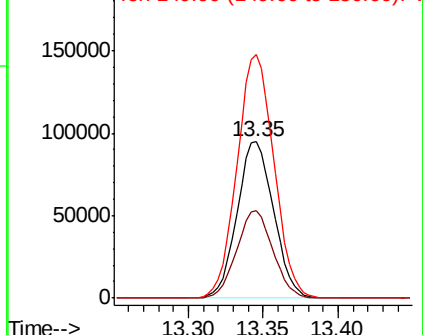
150 157.3 0.0 349.0

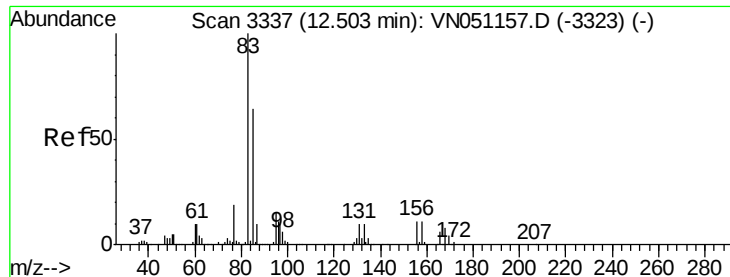


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3307

Delta R.T. -0.10 min

Lab File: VN051224.D

Acq: 15 Sep 2018 15:55

Instrument :

MSVOA_N

ClientSampleId :

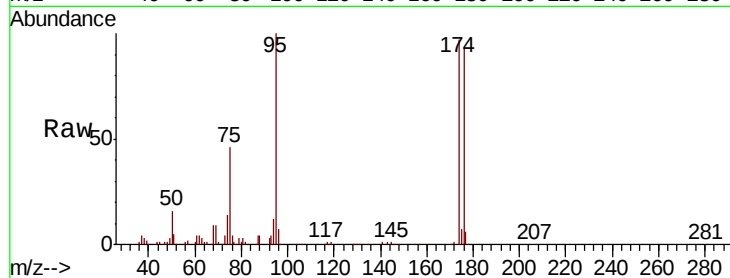
Tot Ion: 83 Resp: 68

Ion Ratio Lower Upper

83 100

131 275.0 5.3 16.1#

85 0.0 32.3 96.8#

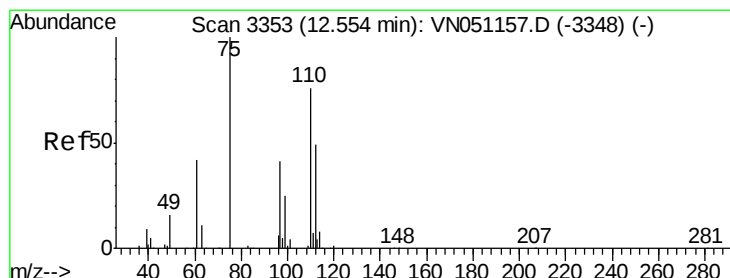
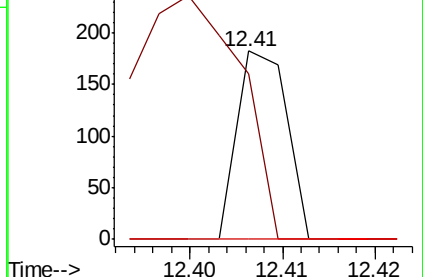
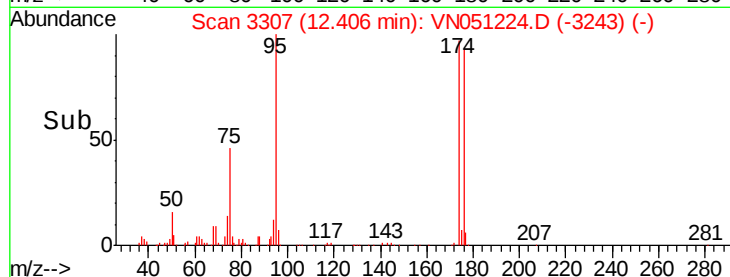


Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO

Time-->



#76

1,2,3-Trichloropropane

Concen: 40.48 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051224.D

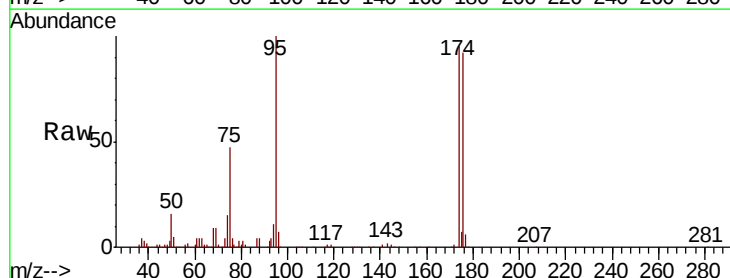
Acq: 15 Sep 2018 15:55

Tgt Ion: 75 Resp: 101800

Ion Ratio Lower Upper

75 100

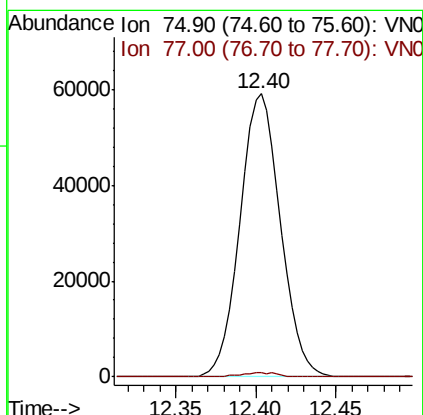
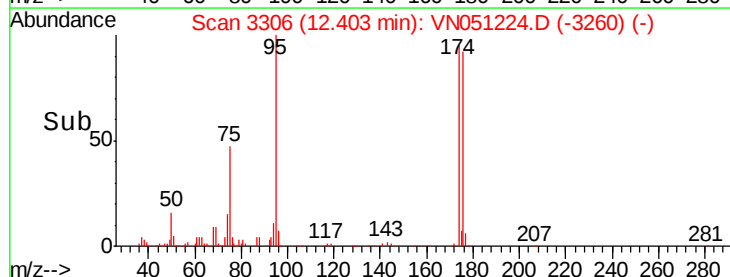
77 1.3 0.0 0.0#

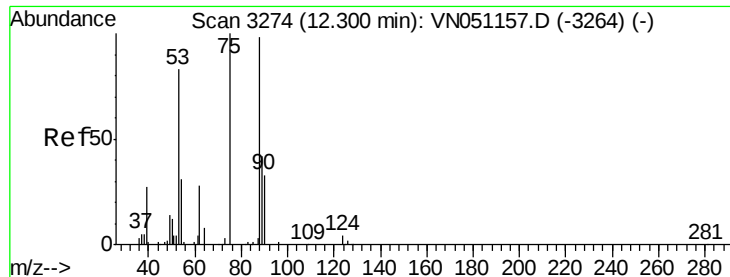


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 120.02 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051224.D

Acq: 15 Sep 2018 15:55

Instrument :

MSVOA_N

ClientSampleId :

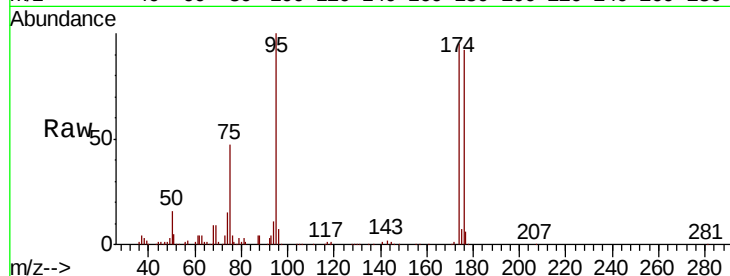
Tot Ion: 75 Resp: 101800

Ion Ratio Lower Upper

75 100

53 0.1 67.8 101.8#

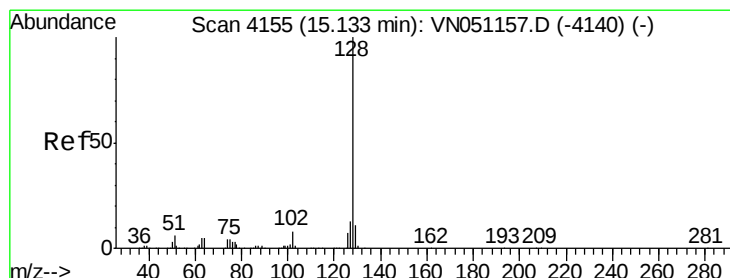
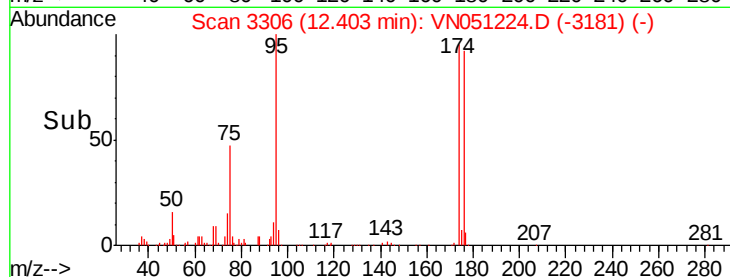
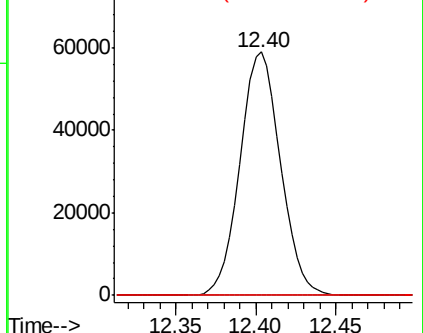
89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN051157.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN051157.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN051157.D (-3264) (-)



#95

Naphthalene

Concen: 5.41 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN051224.D

Acq: 15 Sep 2018 15:55

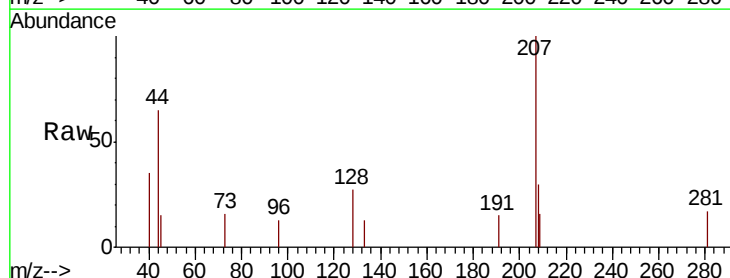
Tgt Ion: 128 Resp: 440

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VN051157.D (-4140) (-)

Ion 127.00 (126.70 to 127.70): VN051157.D (-4140) (-)

Ion 129.00 (128.70 to 129.70): VN051157.D (-4140) (-)

