

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071918\
 Data File : VN049918.D
 Acq On : 19 Jul 2018 15:58
 Operator : MD\SY
 Sample : PB111251ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111251ZHE#05

Quant Time: Jul 20 01:29:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 01:58:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	577507	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	954383	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	814654	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	302312	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	410115	51.67	ug/l	0.00
Spiked Amount			Recovery	=	103.34%	
35) Dibromofluoromethane	7.59	113	363509	45.37	ug/l	0.00
Spiked Amount			Recovery	=	90.74%	
50) Toluene-d8	10.09	98	1288783	44.15	ug/l	0.00
Spiked Amount			Recovery	=	88.30%	
62) 4-Bromofluorobenzene	12.40	95	353420	35.15	ug/l	0.00
Spiked Amount			Recovery	=	70.30%	

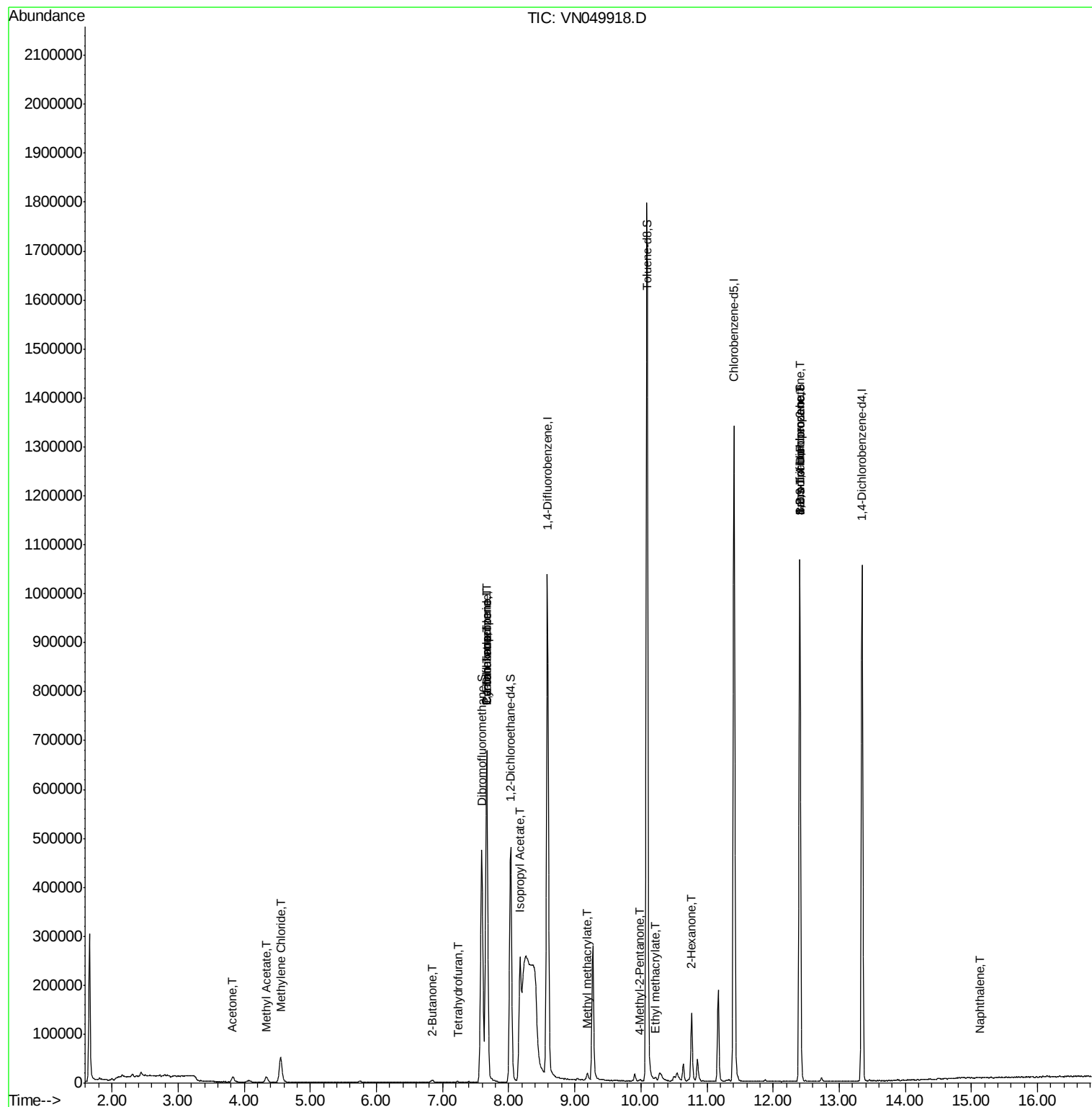
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	698	Below Cal		82
16) Acetone	3.82	43	17141	8.34	ug/l	94
18) Methyl Acetate	4.34	43	18899	2.14	ug/l	97
20) Methylene Chloride	4.55	84	38983	4.99	ug/l	97
25) 2-Butanone	6.85	43	3801	1.29	ug/l	98
29) Tetrahydrofuran	7.23	42	1010	0.55	ug/l #	74
31) Cyclohexane	7.67	56	11234	1.06	ug/l #	4
36) 1,1-Dichloropropene	7.67	75	40323	3.80	ug/l #	48
38) Carbon Tetrachloride	7.67	117	52390	4.61	ug/l #	17
43) Isopropyl Acetate	8.17	43	298284	23.43	ug/l	94
48) Methyl methacrylate	9.18	41	8868	1.39	ug/l #	19
51) 4-Methyl-2-Pentanone	9.99	43	2433	0.34	ug/l	95
56) Ethyl methacrylate	10.22	69	2565	2.39	ug/l #	83
59) 2-Hexanone	10.77	43	20341	4.26	ug/l #	56
71) Bromoform	12.41	173	2984	0.53	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	176457	31.12	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	176457	97.30	ug/l #	13
95) Naphthalene	15.14	128	349	4.51	ug/l #	69

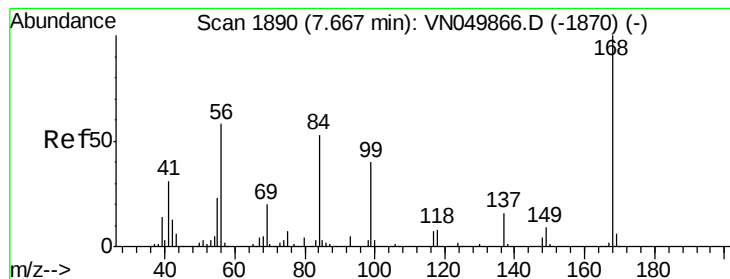
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN049918.D

Acq: 19 Jul 2018 15:58

Instrument :

MSVOA_N

ClientSampleId :

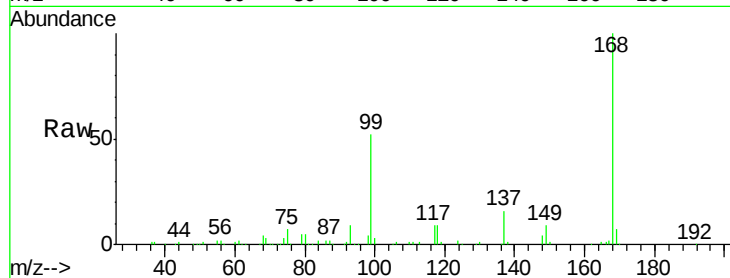
PB111251ZHE#05

Tot Ion:168 Resp: 577507

Ion Ratio Lower Upper

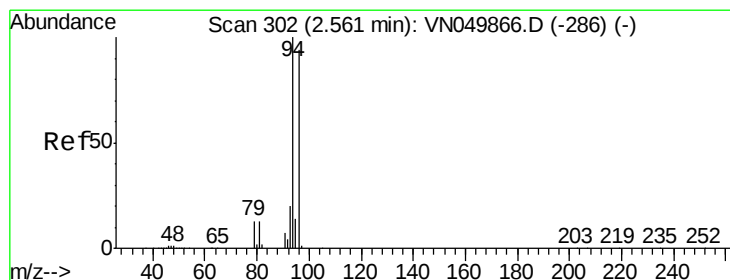
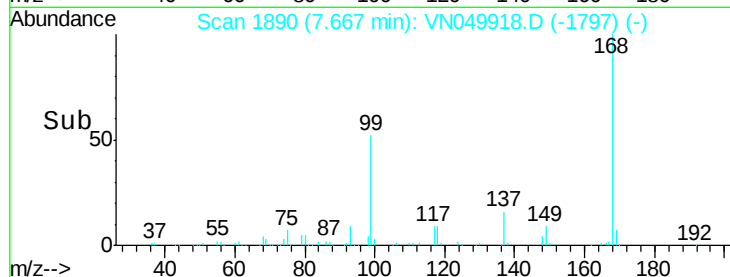
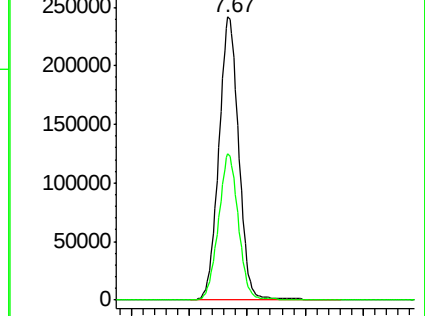
168 100

99 51.9 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN049918.D

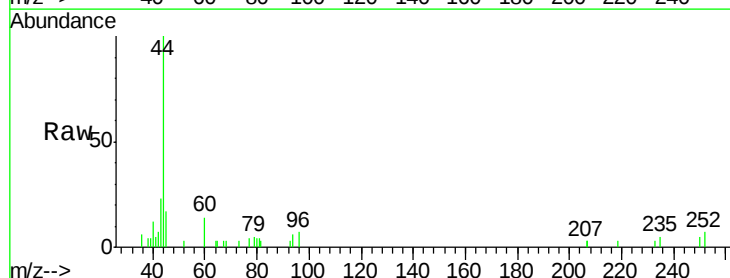
Acq: 19 Jul 2018 15:58

Tgt Ion: 94 Resp: 698

Ion Ratio Lower Upper

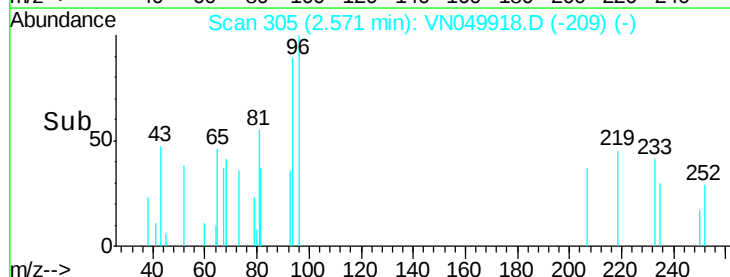
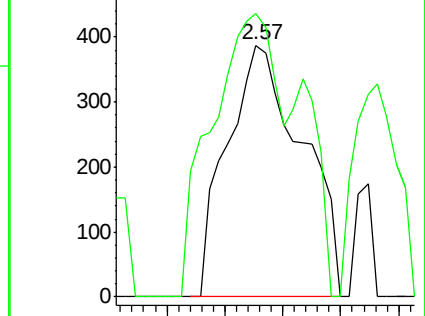
94 100

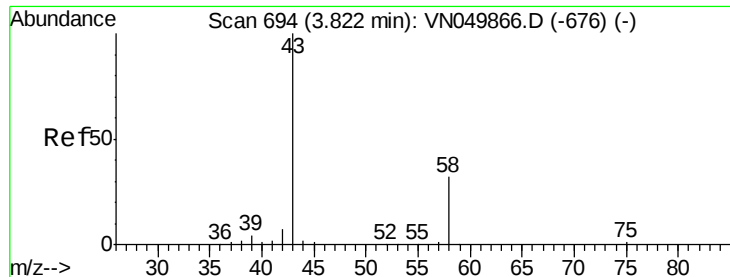
96 112.4 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO





#16

Acetone

Concen: 8.34 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN049918.D

Acq: 19 Jul 2018 15:58

Instrument :

MSVOA_N

ClientSampleId :

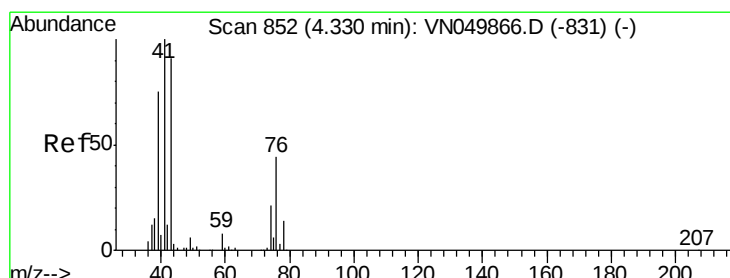
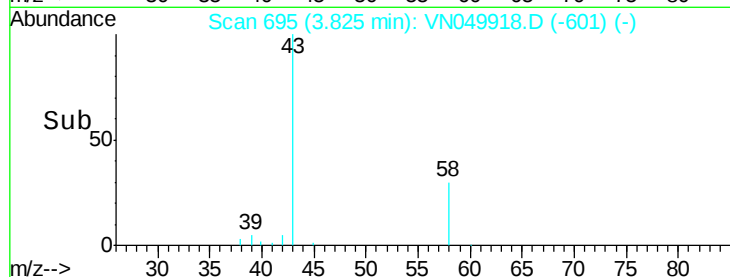
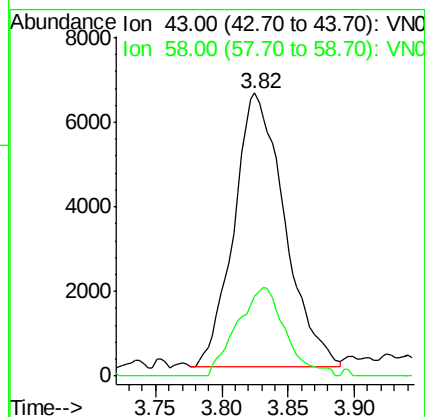
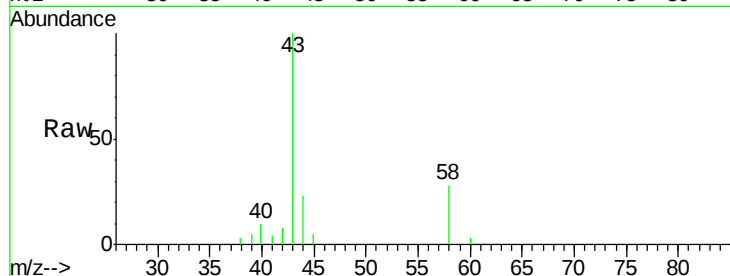
PB111251ZHE#05

Tot Ion: 43 Resp: 17141

Ion Ratio Lower Upper

43 100

58 29.2 25.9 38.9



#18

Methyl Acetate

Concen: 2.14 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN049918.D

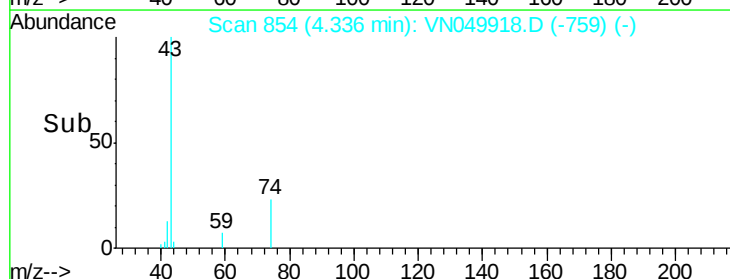
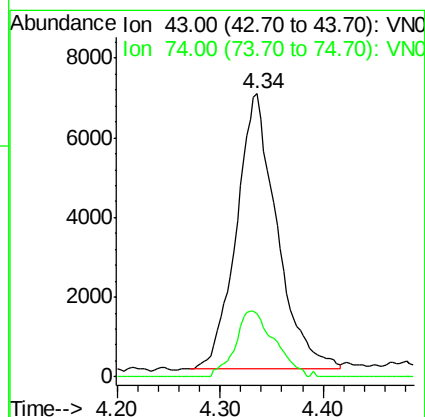
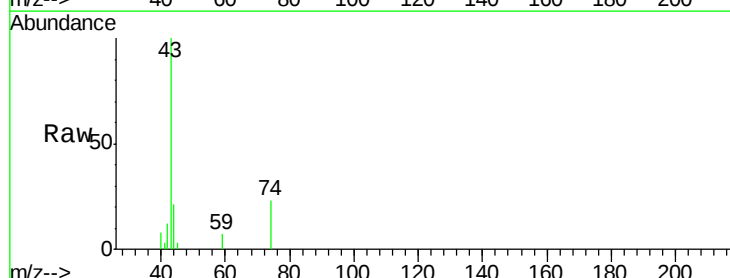
Acq: 19 Jul 2018 15:58

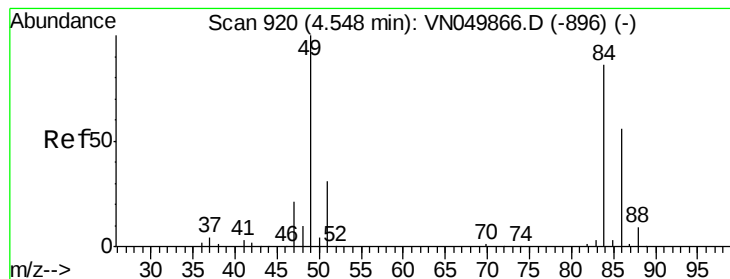
Tgt Ion: 43 Resp: 18899

Ion Ratio Lower Upper

43 100

74 23.1 19.8 29.8





#20

Methvlene Chloride

Concen: 4.99 ug/l

RT: 4.55 min Scan# 921

Delta R.T. 0.00 min

Lab File: VN049918.D

Acq: 19 Jul 2018 15:58

Instrument :

MSVOA_N

ClientSampleId :

PB111251ZHE#05

Tot Ion: 84 Resp: 38983

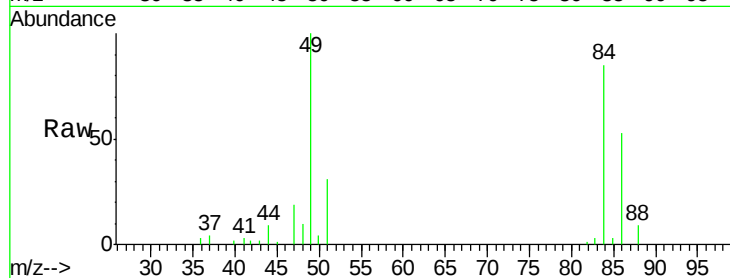
Ion Ratio Lower Upper

84 100

49 117.4 95.4 143.2

51 36.6 28.4 42.6

86 61.8 52.6 79.0

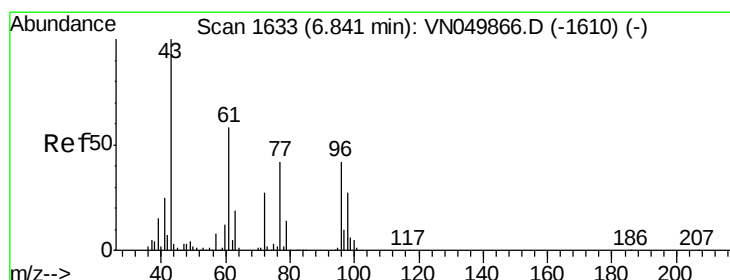
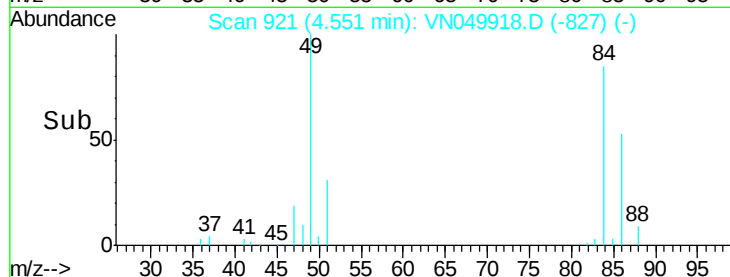
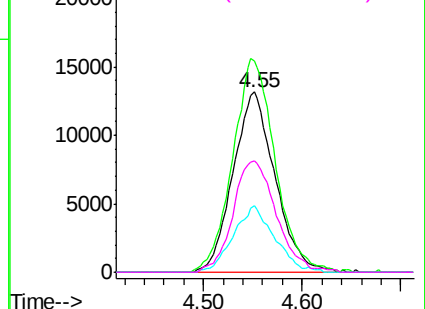


Abundance Ion 83.90 (83.60 to 84.60): VN0

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



#25

2-Butanone

Concen: 1.29 ug/l

RT: 6.85 min Scan# 1636

Delta R.T. 0.01 min

Lab File: VN049918.D

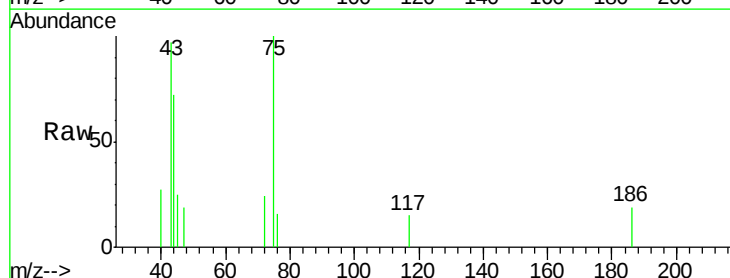
Acq: 19 Jul 2018 15:58

Tgt Ion: 43 Resp: 3801

Ion Ratio Lower Upper

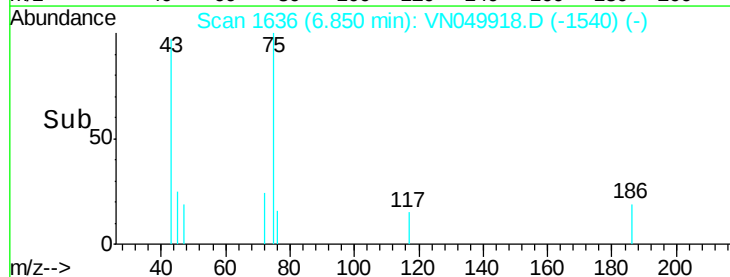
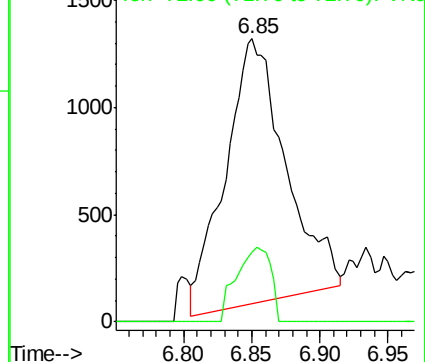
43 100

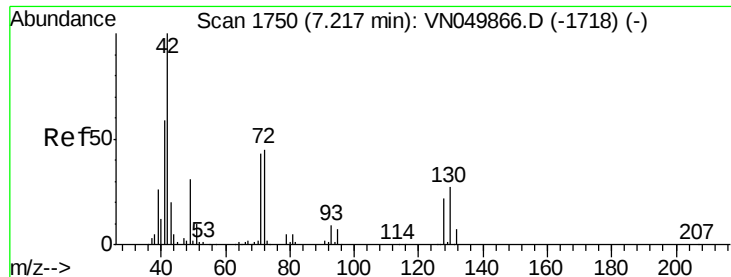
72 28.5 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.55 ug/l

RT: 7.23 min Scan# 1754

Delta R.T. 0.01 min

Lab File: VN049918.D

Acq: 19 Jul 2018 15:58

Instrument :

MSVOA_N

ClientSampleId :

PB111251ZHE#05

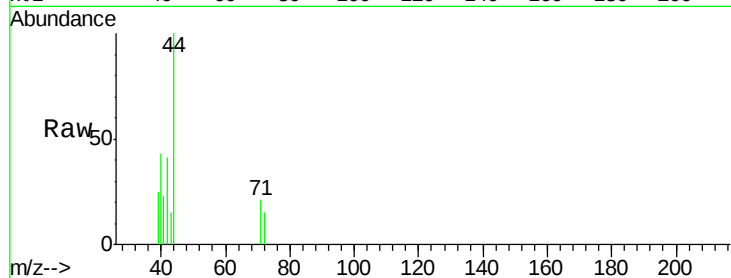
Tot Ion: 42 Resp: 1010

Ion Ratio Lower Upper

42 100

72 34.4 35.6 53.4#

71 18.8 34.0 51.0#



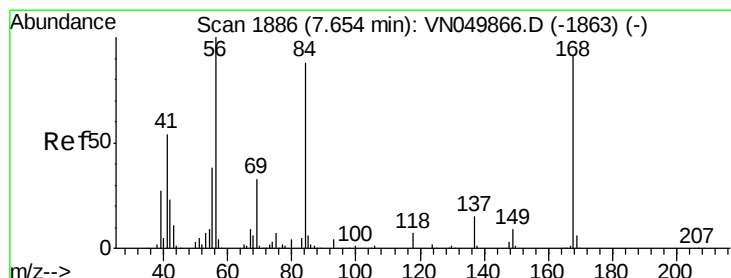
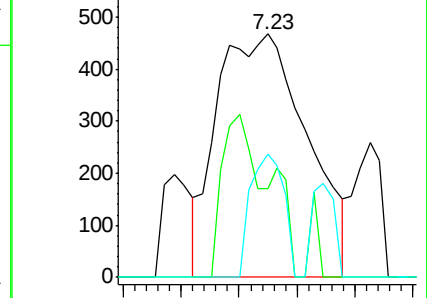
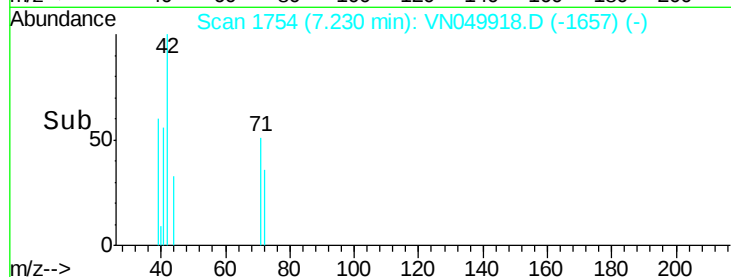
Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

7.23

Time-->



#31

Cyclohexane

Concen: 1.06 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN049918.D

Acq: 19 Jul 2018 15:58

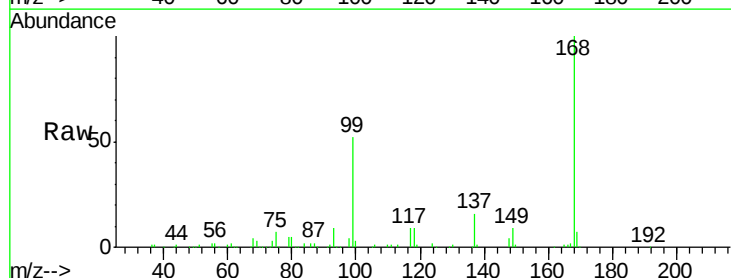
Tgt Ion: 56 Resp: 11234

Ion Ratio Lower Upper

56 100

69 172.5 26.6 40.0#

84 121.3 69.0 103.6#



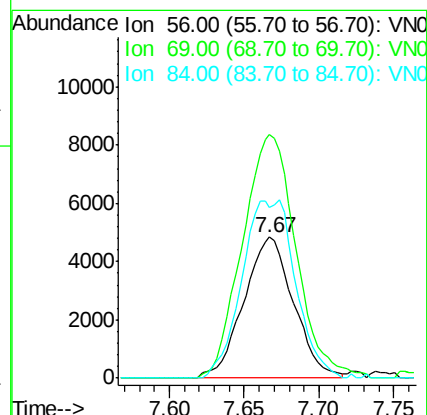
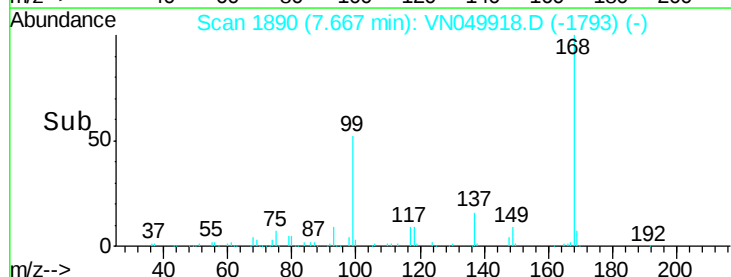
Abundance Ion 56.00 (55.70 to 56.70): VN0

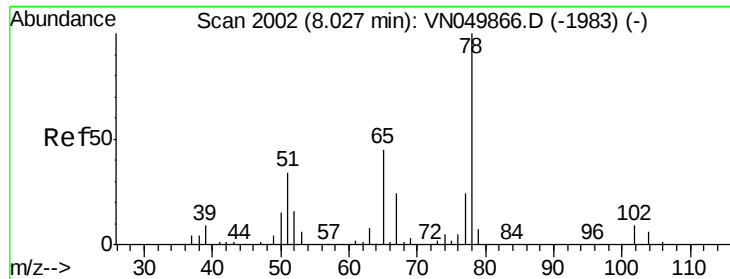
Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

7.67

Time-->

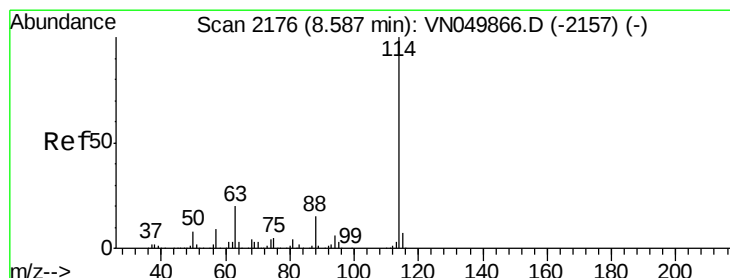
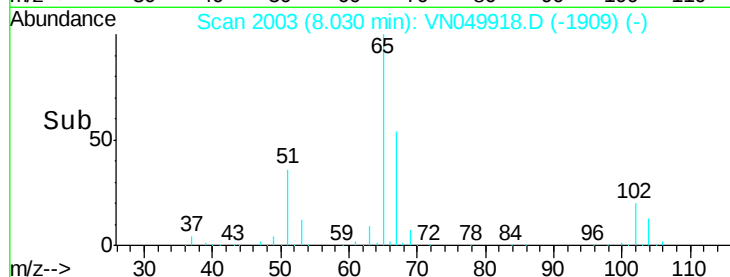
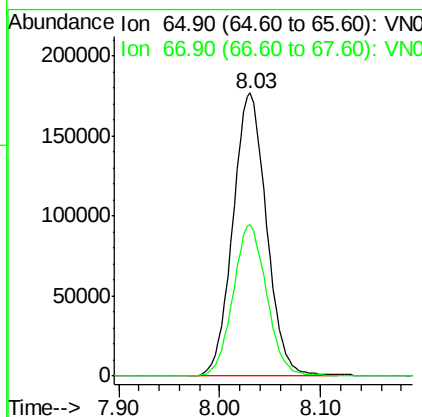
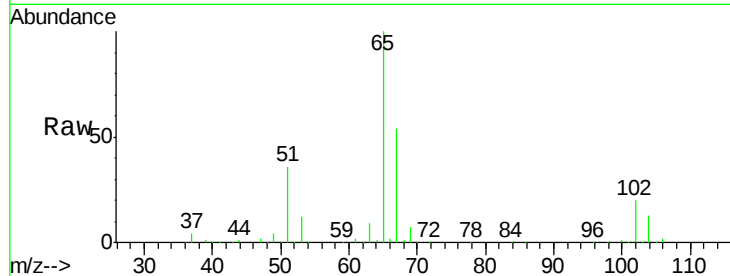




#33
 1,2-Dichloroethane-d4
 Concen: 51.67 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN049918.D
 Acq: 19 Jul 2018 15:58

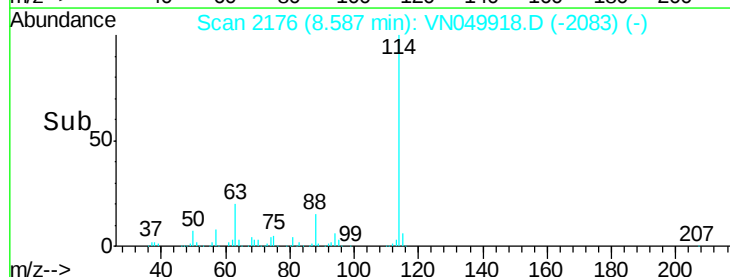
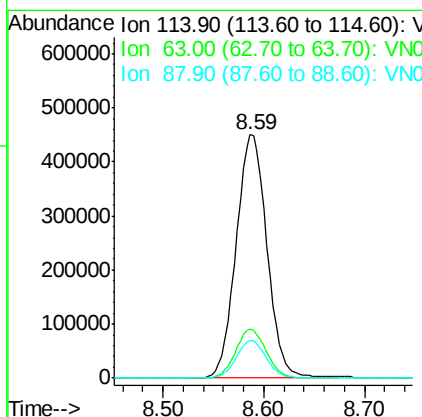
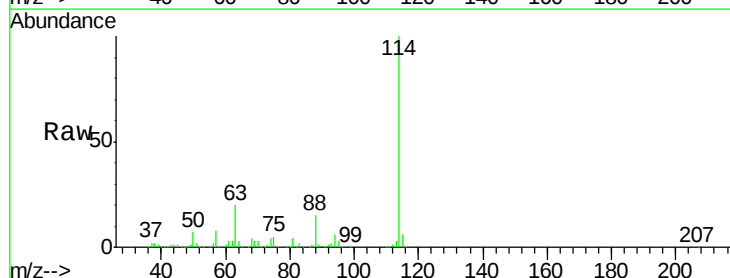
Instrument :
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 PB111251ZHE#05

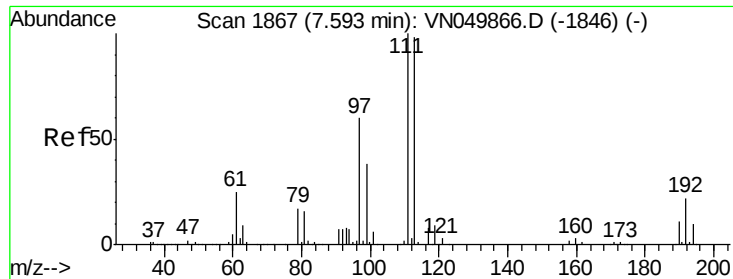
Tot Ion: 65 Resp: 410115
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN049918.D
 Acq: 19 Jul 2018 15:58

Tgt Ion: 114 Resp: 954383
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 39.8
 88 15.3 0.0 30.6

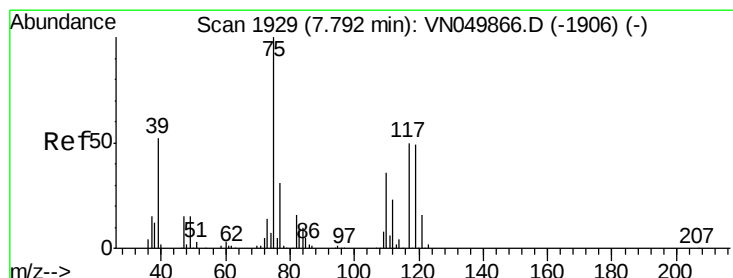
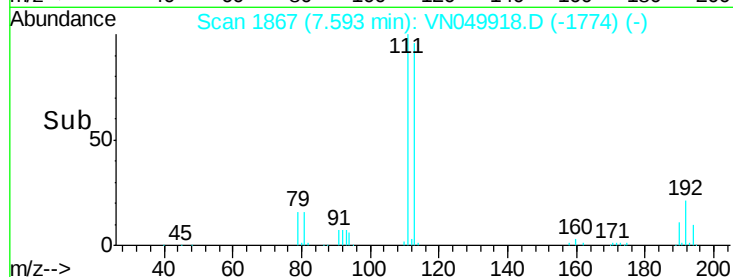
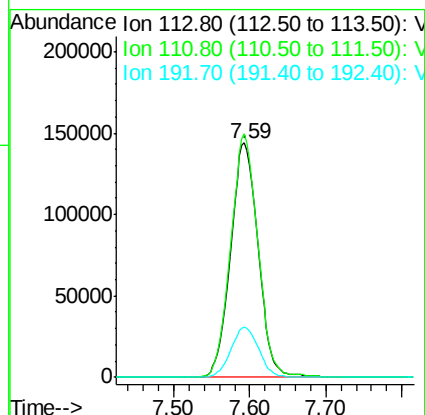
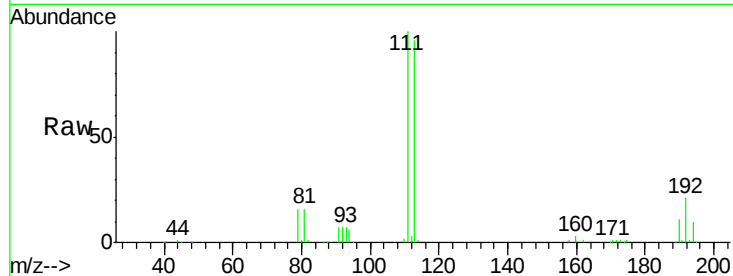




#35
 Dibromofluoromethane
 Concen: 45.37 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049918.D
 Acq: 19 Jul 2018 15:58

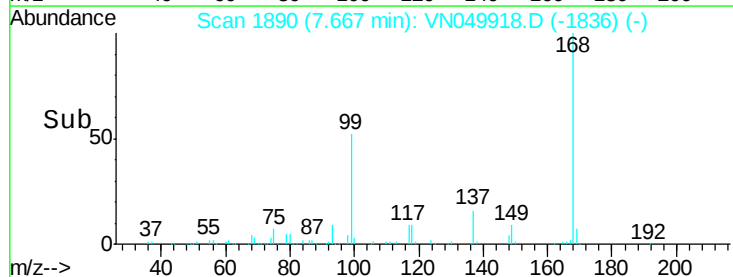
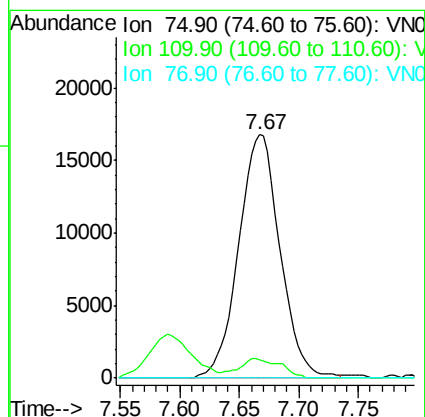
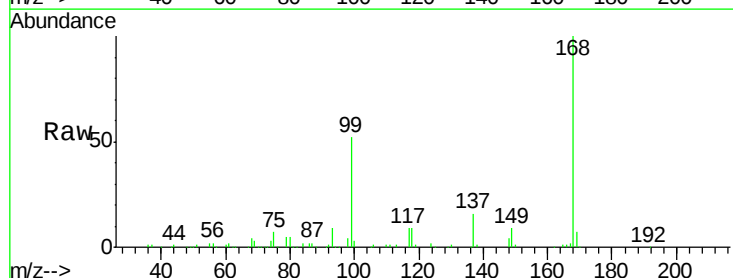
Instrument :
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 ClientSampleId :
 PB111251ZHE#05

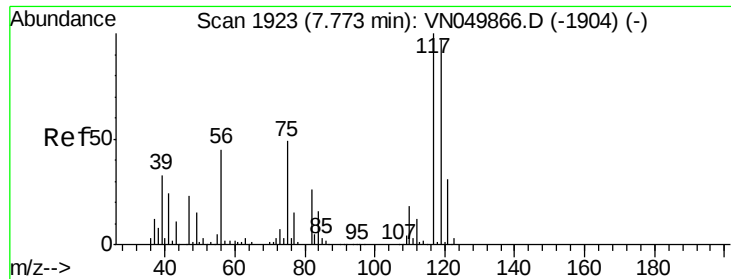
Tot Ion:113 Resp: 363509
 Ion Ratio Lower Upper
 113 100
 111 102.4 81.8 122.8
 192 21.8 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.80 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049918.D
 Acq: 19 Jul 2018 15:58

Tgt Ion: 75 Resp: 40323
 Ion Ratio Lower Upper
 75 100
 110 8.1 18.1 54.4#
 77 0.0 24.9 37.3#

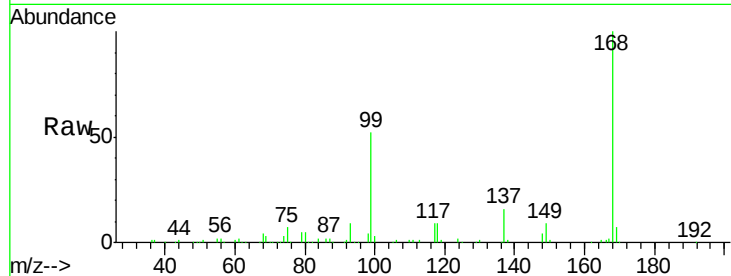




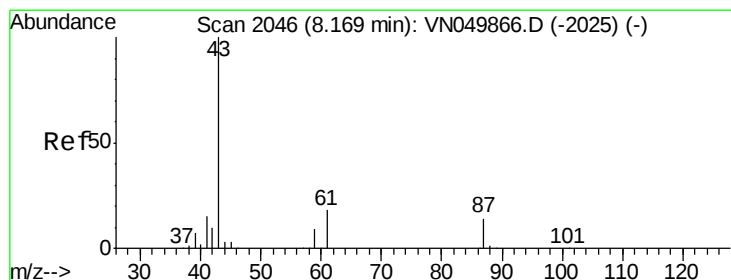
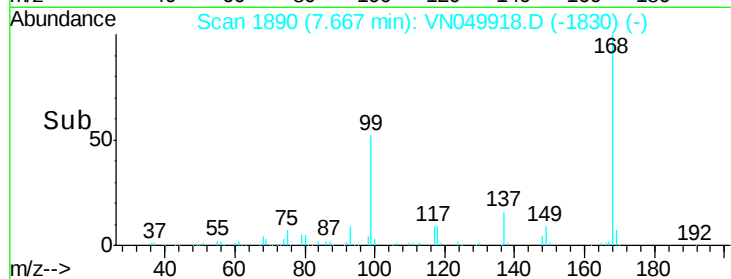
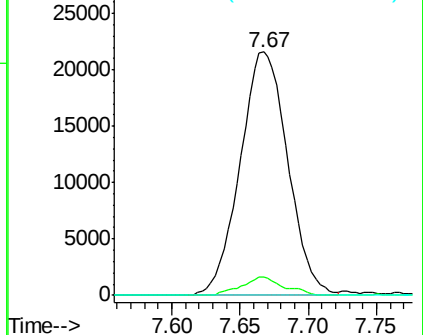
#38
Carbon Tetrachloride
Concen: 4.61 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN049918.D
Acq: 19 Jul 2018 15:58

Instrument :
MSVOA_N
ClientSampleId :
PB111251ZHE#05

Tot Ion:117 Resp: 52390
Ion Ratio Lower Upper
117 100
119 7.4 77.2 115.8#
121 0.0 25.0 37.6#

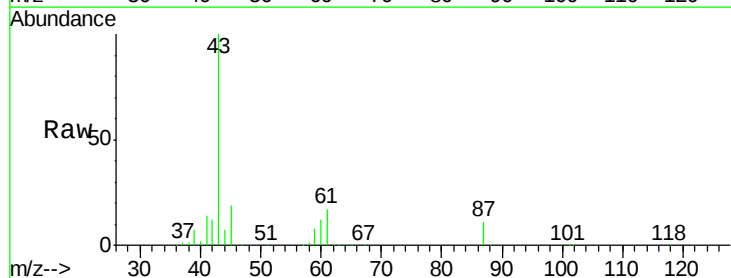


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

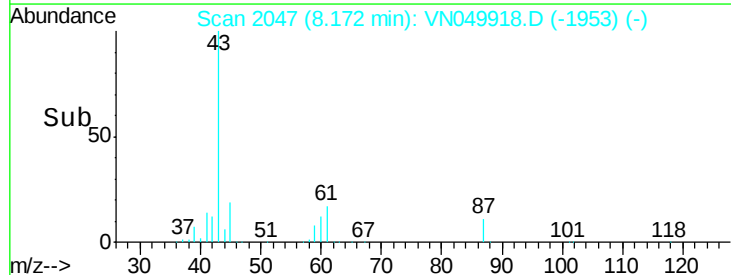
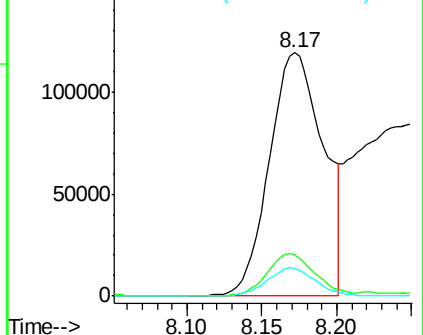


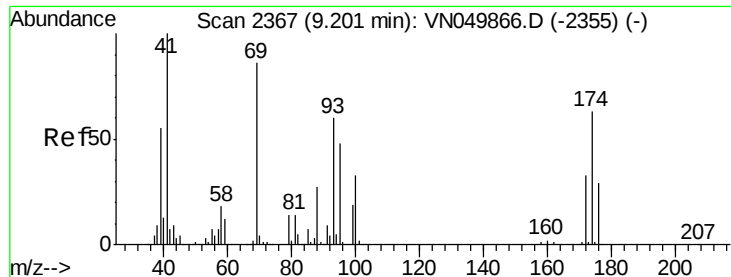
#43
Isopropyl Acetate
Concen: 23.43 ug/l
RT: 8.17 min Scan# 2047
Delta R.T. 0.00 min
Lab File: VN049918.D
Acq: 19 Jul 2018 15:58

Tgt Ion: 43 Resp: 298284
Ion Ratio Lower Upper
43 100
61 15.7 14.9 22.3
87 10.4 10.0 15.0



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

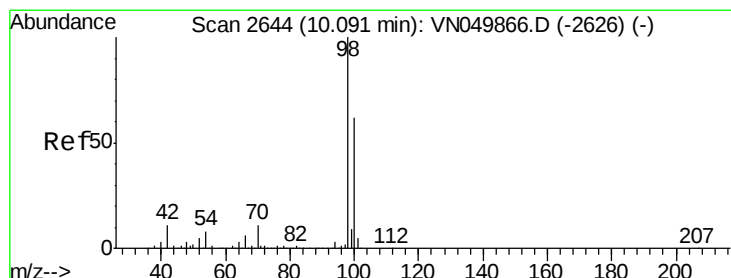
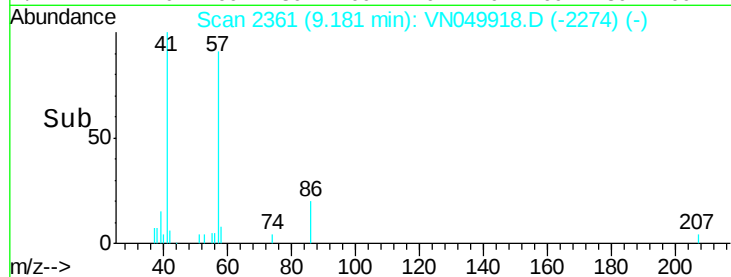
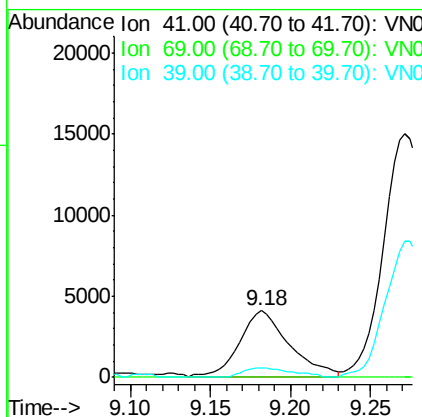
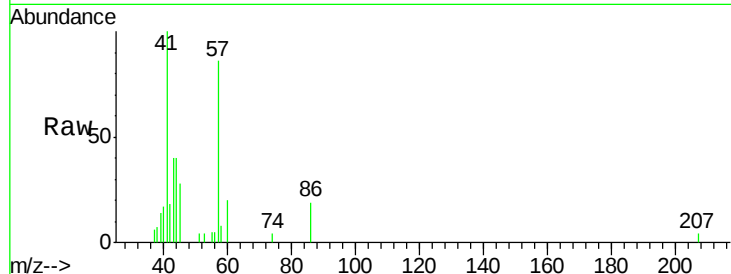




#48
Methvl methacrylate
Concen: 1.39 ug/l
RT: 9.18 min Scan# 2361
Delta R.T. -0.02 min
Lab File: VN049918.D
Acq: 19 Jul 2018 15:58

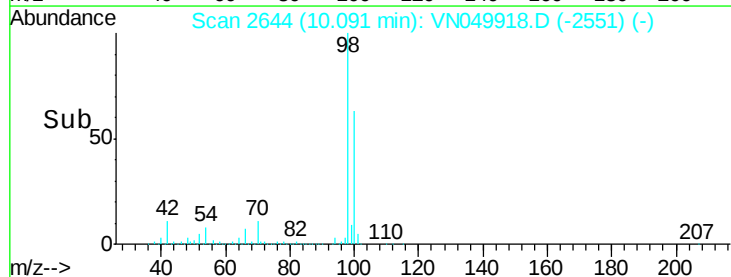
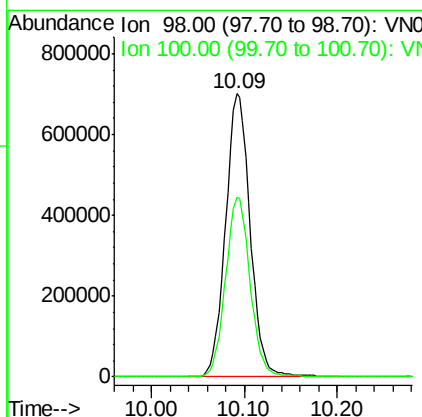
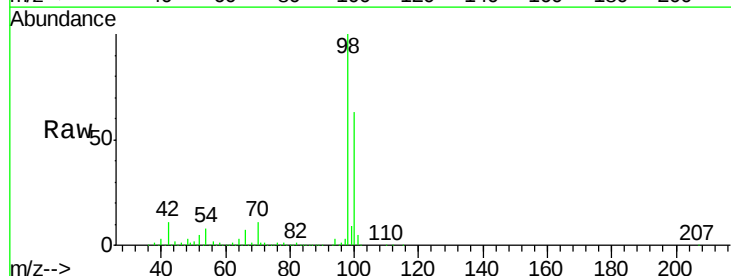
Instrument :
MSVOA_N
ClientSampleId :
PB111251ZHE#05

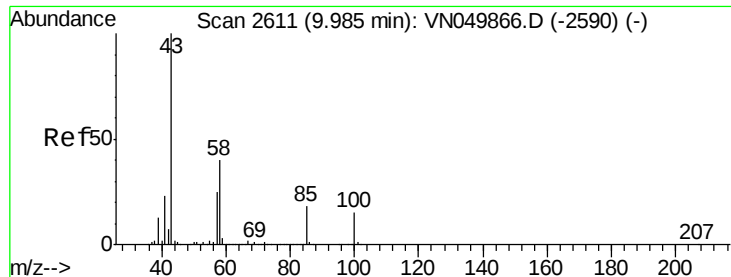
Tot Ion: 41 Resp: 8868
Ion Ratio Lower Upper
41 100
69 0.0 71.5 107.3#
39 13.9 44.7 67.1#



#50
Toluene-d8
Concen: 44.15 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN049918.D
Acq: 19 Jul 2018 15:58

Tgt Ion: 98 Resp: 1288783
Ion Ratio Lower Upper
98 100
100 63.5 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 0.34 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. 0.00 min

Lab File: VN049918.D

Acq: 19 Jul 2018 15:58

Instrument :

MSVOA_N

ClientSampleId :

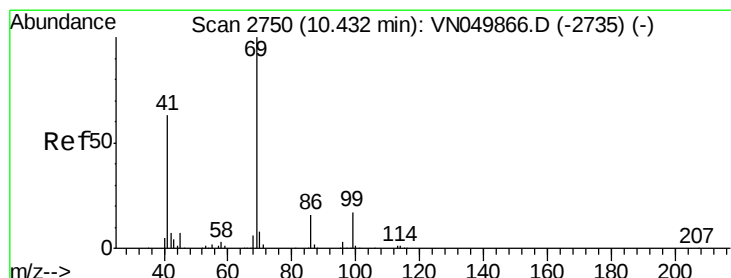
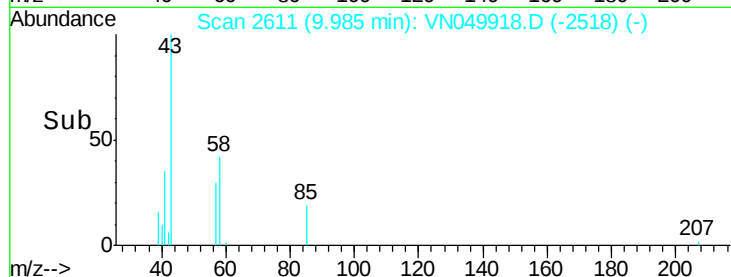
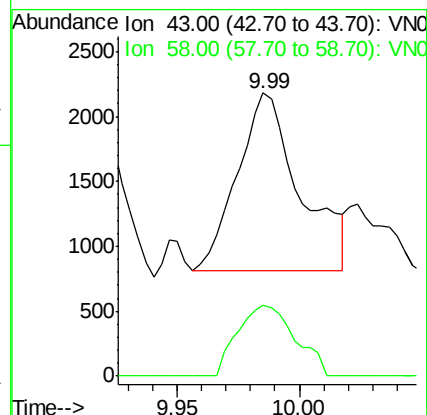
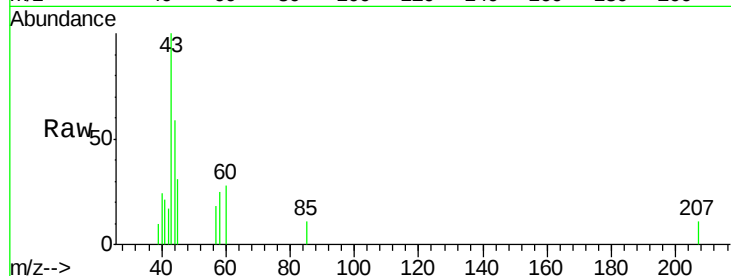
PB111251ZHE#05

Tot Ion: 43 Resp: 2433

Ion Ratio Lower Upper

43 100

58 36.6 31.8 47.8



#56

Ethyl methacrylate

Concen: 2.39 ug/l

RT: 10.22 min Scan# 2685

Delta R.T. -0.21 min

Lab File: VN049918.D

Acq: 19 Jul 2018 15:58

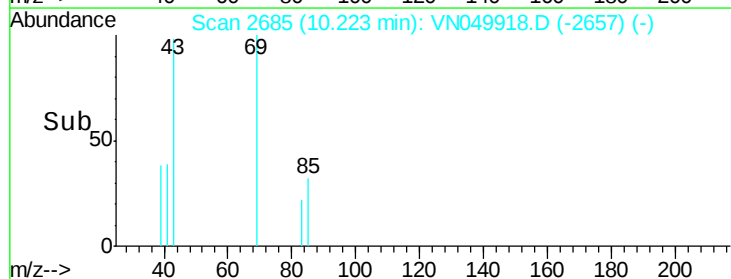
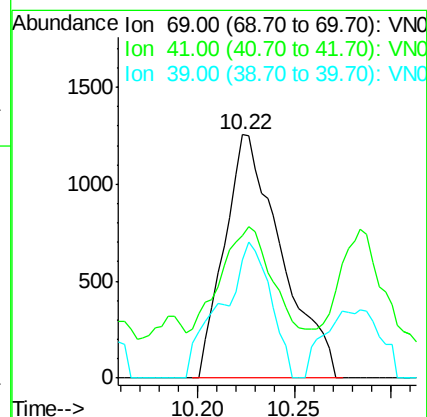
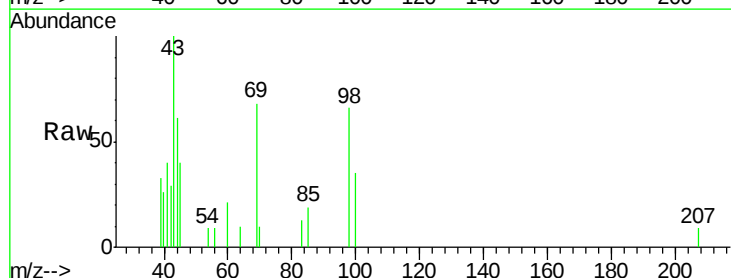
Tgt Ion: 69 Resp: 2565

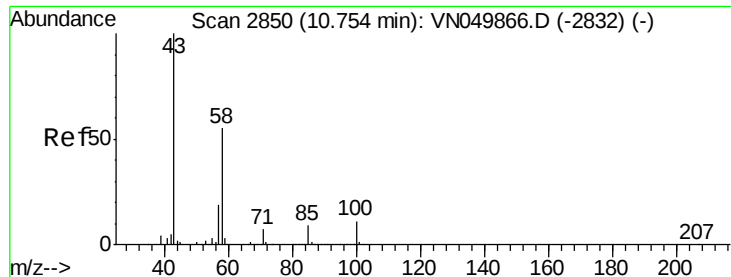
Ion Ratio Lower Upper

69 100

41 55.9 51.6 77.4

39 48.5 25.8 38.8#





#59

2-Hexanone

Concen: 4.26 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN049918.D

Acq: 19 Jul 2018 15:58

Instrument :

MSVOA_N

ClientSampleId :

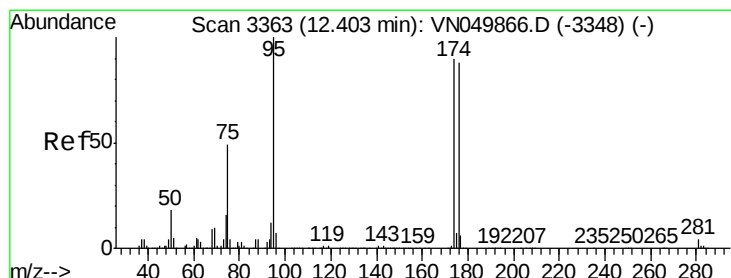
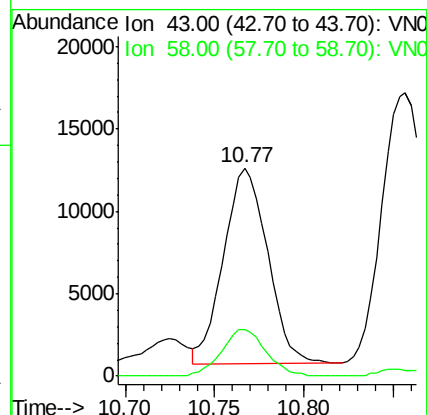
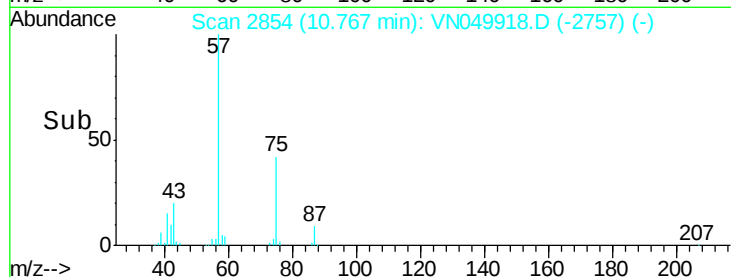
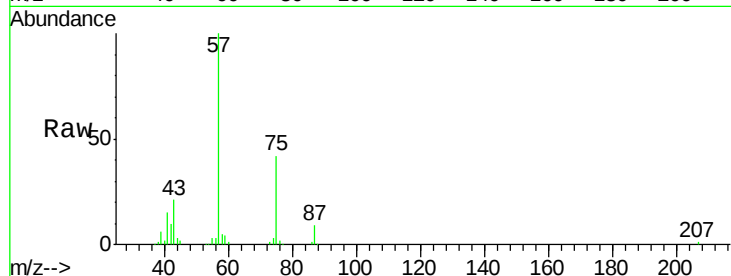
PB111251ZHE#05

Tot Ion: 43 Resp: 20341

Ion Ratio Lower Upper

43 100

58 24.0 27.8 83.4#



#62

4-Bromofluorobenzene

Concen: 35.15 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049918.D

Acq: 19 Jul 2018 15:58

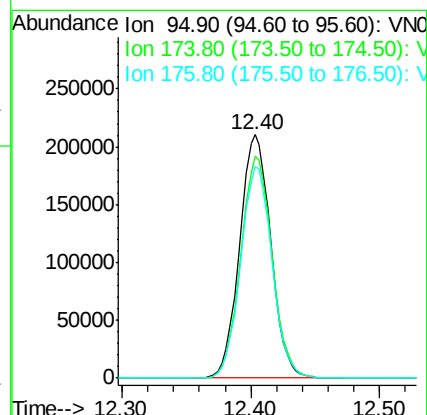
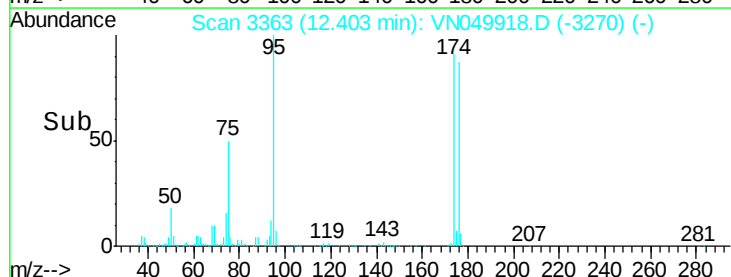
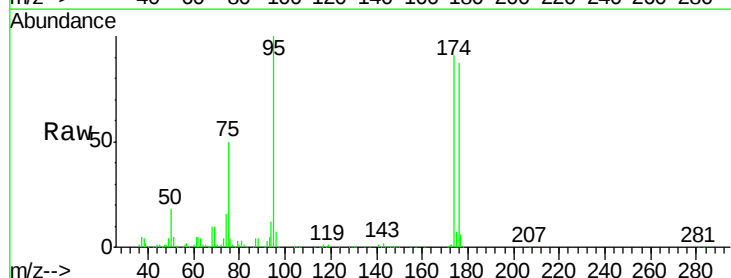
Tgt Ion: 95 Resp: 353420

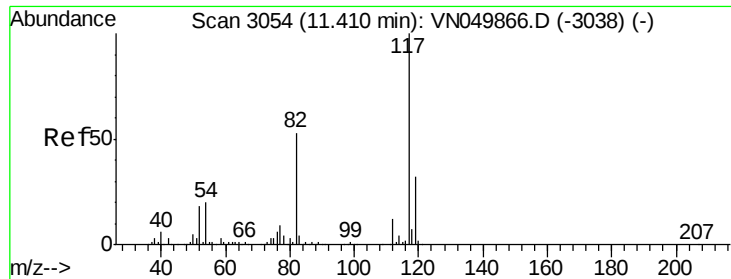
Ion Ratio Lower Upper

95 100

174 91.9 0.0 179.6

176 87.5 0.0 174.0

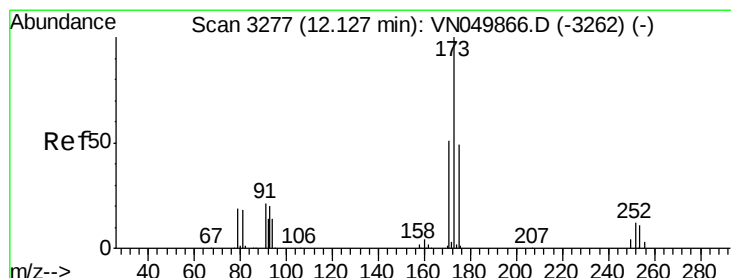
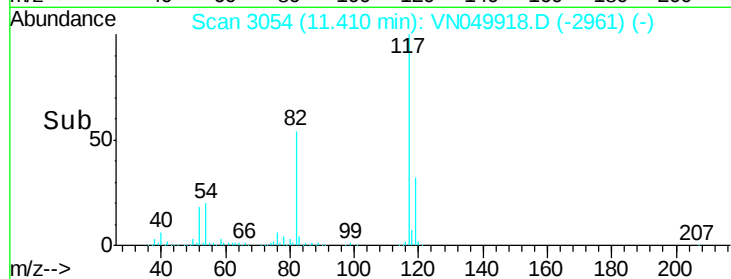
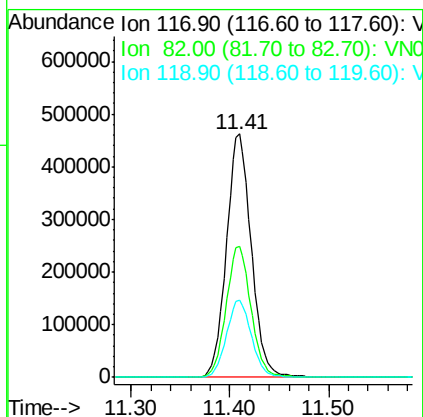
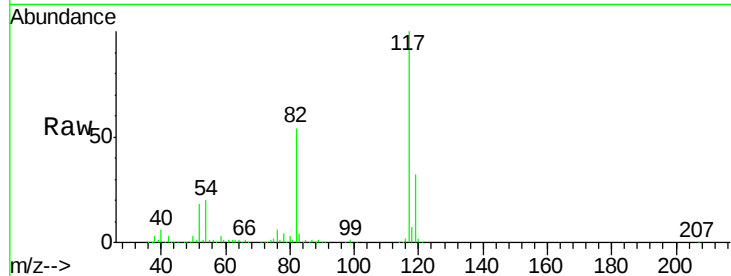




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049918.D
Acq: 19 Jul 2018 15:58

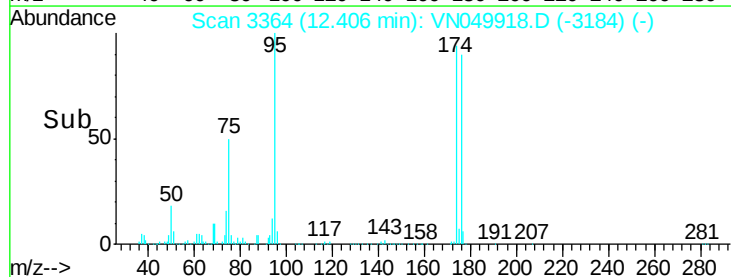
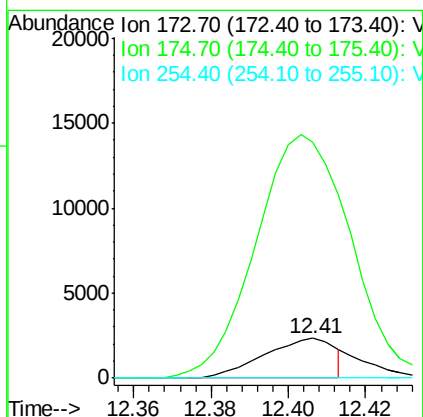
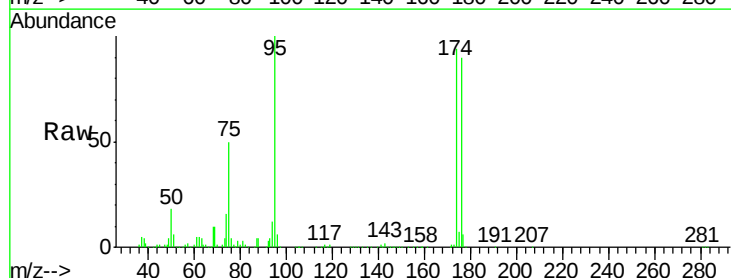
Instrument :
MSVOA_N
ClientSampleId :
PB111251ZHE#05

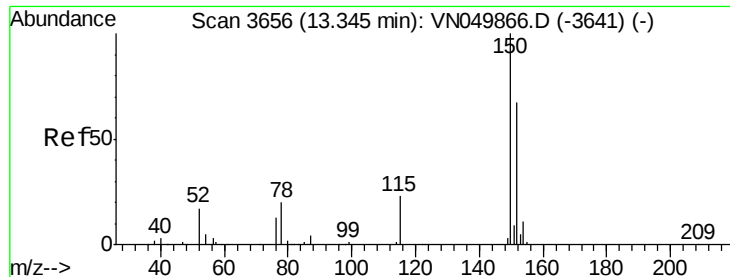
Tot Ion:117 Resp: 814654
Ion Ratio Lower Upper
117 100
82 53.7 41.9 62.9
119 31.8 25.4 38.2



#71
Bromoform
Concen: 0.53 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.28 min
Lab File: VN049918.D
Acq: 19 Jul 2018 15:58

Tgt Ion:173 Resp: 2984
Ion Ratio Lower Upper
173 100
175 675.0 24.6 73.8#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN049918.D

Acq: 19 Jul 2018 15:58

Instrument :

MSVOA_N

ClientSampleId :

PB111251ZHE#05

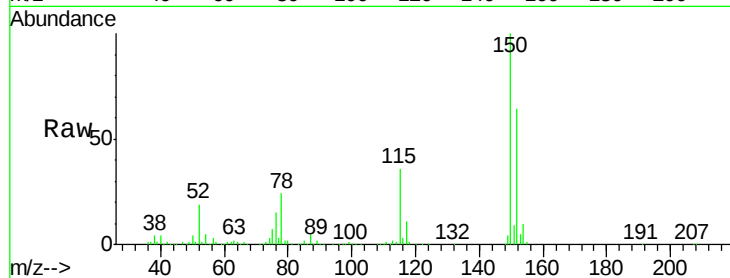
Tot Ion:152 Resp: 302312

Ion Ratio Lower Upper

152 100

115 54.8 28.1 84.2

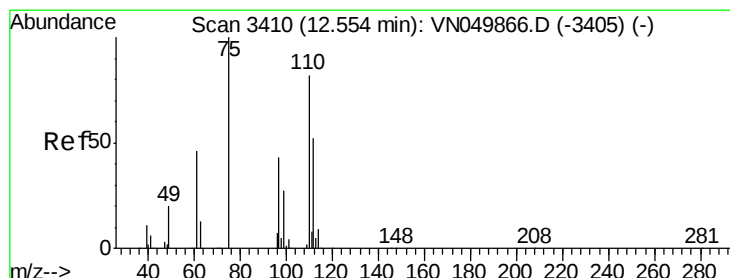
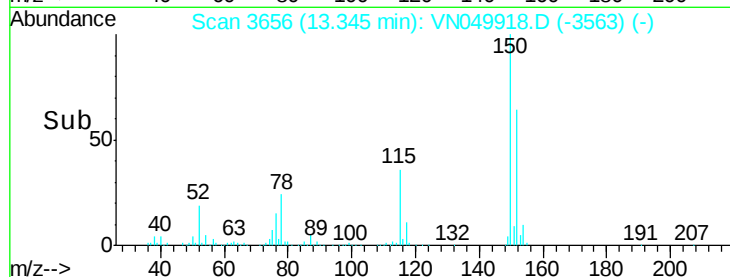
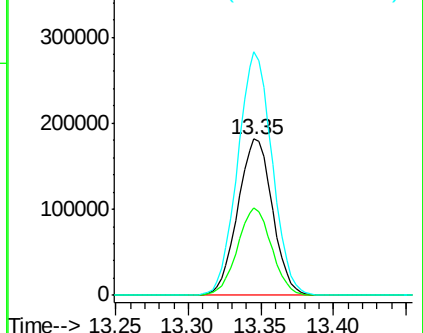
150 155.0 0.0 347.6



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: 31.12 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049918.D

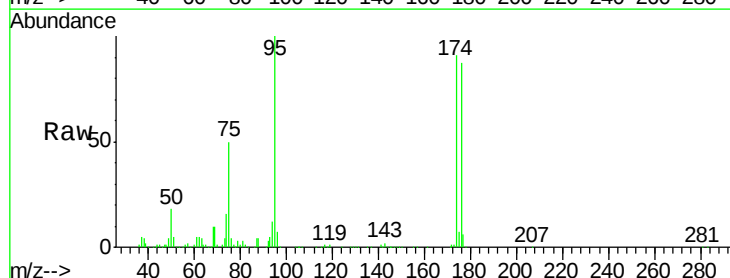
Acq: 19 Jul 2018 15:58

Tgt Ion: 75 Resp: 176457

Ion Ratio Lower Upper

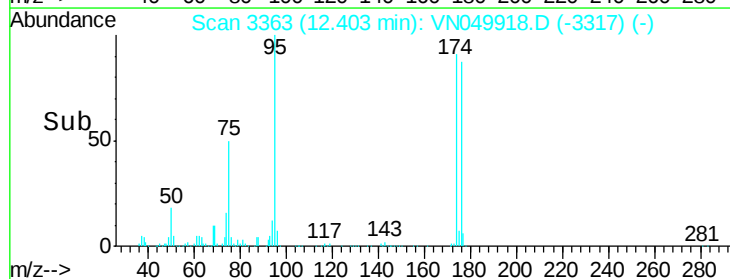
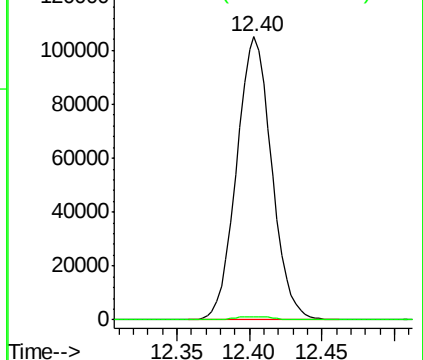
75 100

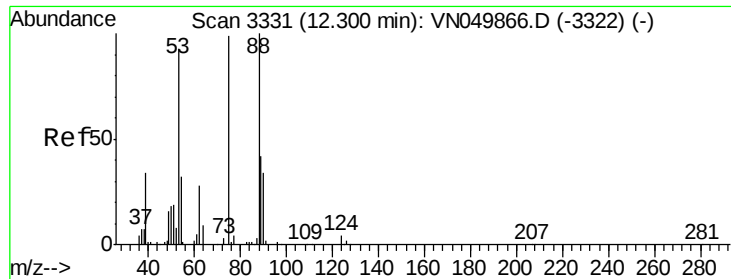
77 1.3 0.0 0.0#



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: 97.30 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049918.D

Acq: 19 Jul 2018 15:58

Instrument :

MSVOA_N

ClientSampleId :

PB111251ZHE#05

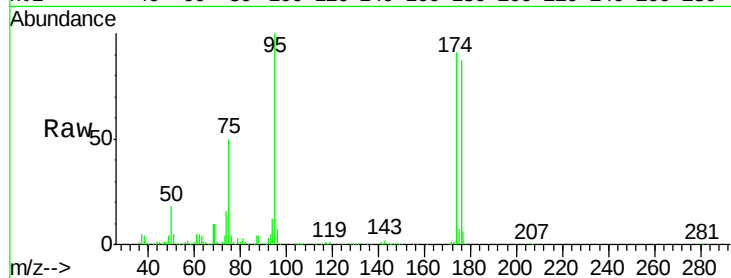
Tot Ion: 75 Resp: 176457

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

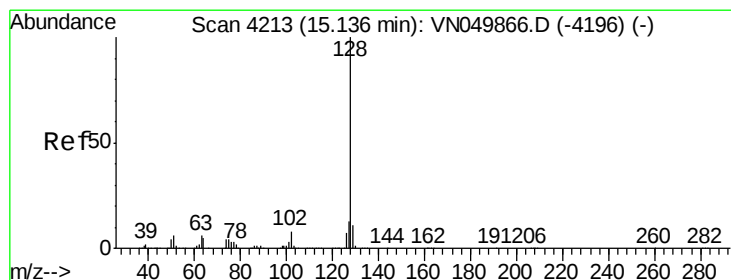
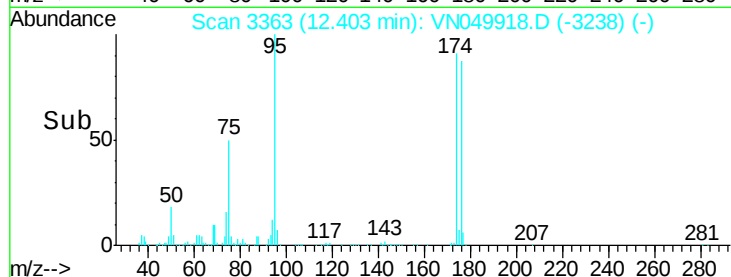
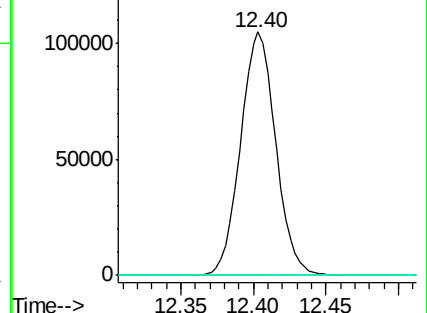
89 0.0 35.9 53.9#



Abundance Ion 74.90 (74.60 to 75.60): VN049918.D (-3363) (-)

Ion 53.00 (52.70 to 53.70): VN049918.D (-3363) (-)

Ion 88.90 (88.60 to 89.60): VN049918.D (-3363) (-)



#95

Naphthalene

Concen: 4.51 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

Lab File: VN049918.D

Acq: 19 Jul 2018 15:58

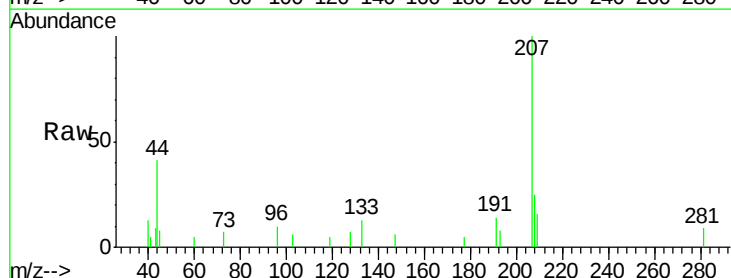
Tgt Ion: 128 Resp: 349

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN049918.D (-4214) (-)

Ion 127.00 (126.70 to 127.70): VN049918.D (-4214) (-)

Ion 129.00 (128.70 to 129.70): VN049918.D (-4214) (-)

