

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080218\
 Data File : VN050268.D
 Acq On : 2 Aug 2018 16:59
 Operator : MD\SY
 Sample : PB111674ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111674ZHE#06

Quant Time: Aug 03 01:14:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 26 18:10:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	640783	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1072486	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	895815	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	312521	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	464115	51.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.82%	
35) Dibromofluoromethane	7.59	113	408721	46.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.36%	
50) Toluene-d8	10.09	98	1451504	45.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.18%	
62) 4-Bromofluorobenzene	12.40	95	388615	36.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	73.32%	

Target Compounds

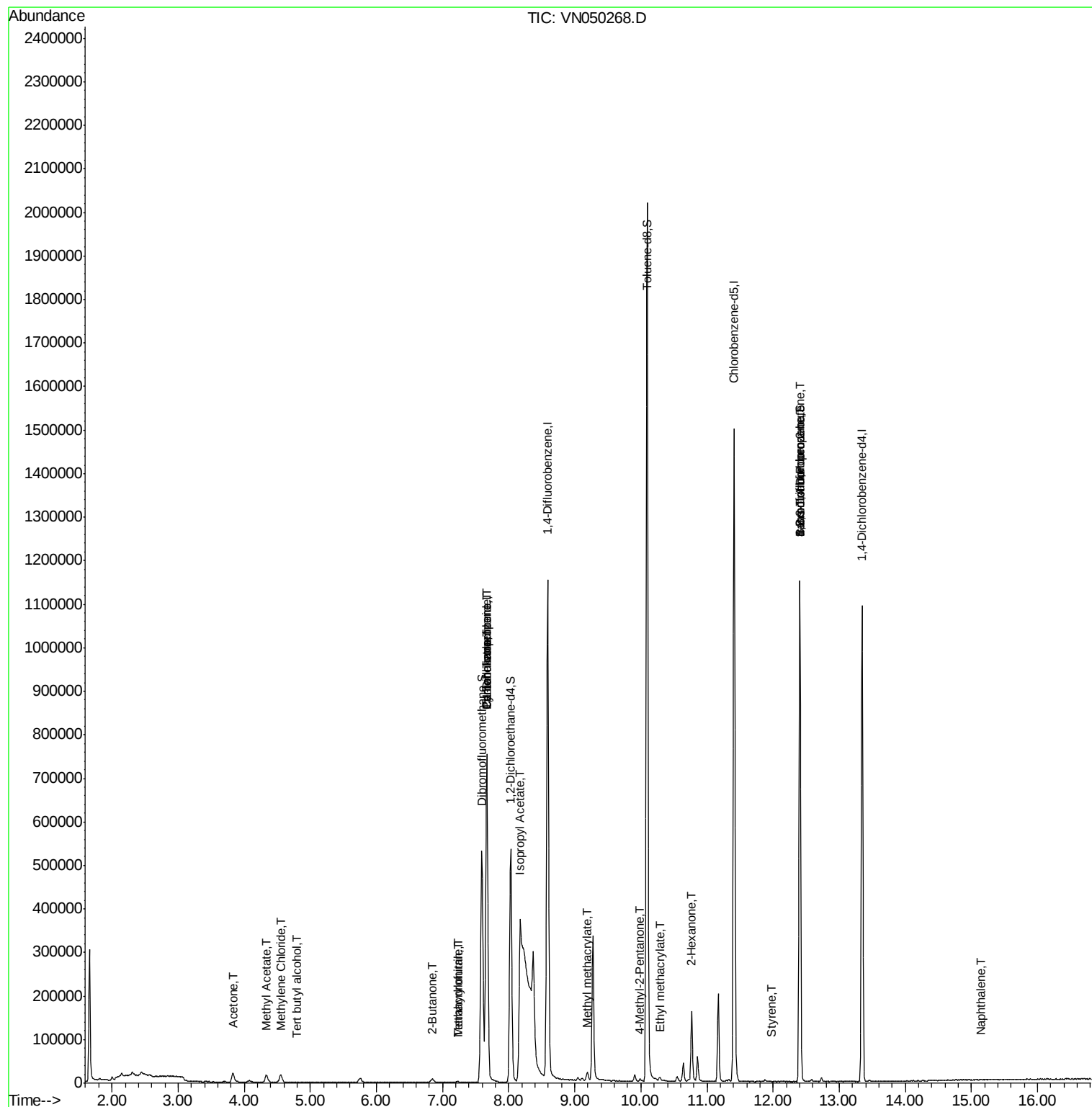
						Qvalue
5) Bromomethane	2.54	94	68	Below Cal	#	3
11) Tert butyl alcohol	4.80	59	412	0.63	ug/l #	72
16) Acetone	3.83	43	35553	12.76	ug/l	99
18) Methyl Acetate	4.33	43	31773	2.33	ug/l	96
20) Methylene Chloride	4.55	84	13245	0.43	ug/l	97
25) 2-Butanone	6.86	43	6401	1.88	ug/l #	77
29) Tetrahydrofuran	7.24	42	1597	0.72	ug/l #	63
31) Cyclohexane	7.67	56	12651	0.96	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	45339	3.75	ug/l #	48
38) Carbon Tetrachloride	7.67	117	59380	4.63	ug/l #	16
41) Methacrylonitrile	7.23	41	927	2.95	ug/l #	37
43) Isopropyl Acetate	8.18	43	501117	31.14	ug/l #	85
48) Methyl methacrylate	9.18	41	10255	1.41	ug/l #	23
51) 4-Methyl-2-Pentanone	9.99	43	3749	0.45	ug/l	89
56) Ethyl methacrylate	10.29	69	96	2.04	ug/l #	1
59) 2-Hexanone	10.77	43	23991	9.03	ug/l #	57
70) Styrene	11.97	104	237	0.93	ug/l #	47
71) Bromoform	12.41	173	3609	0.57	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.40	83	253	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	190435	32.79	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	190435	104.00	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.26	75	65	Below Cal	#	1
95) Naphthalene	15.14	128	1238	4.49	ug/l #	69

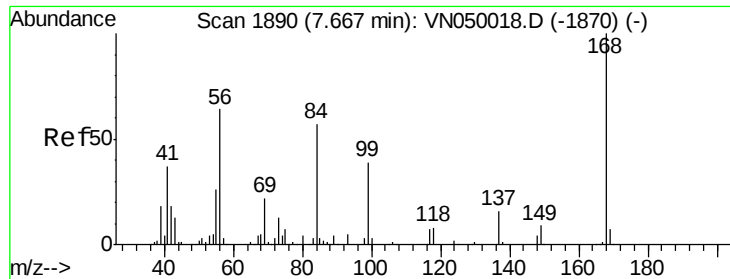
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VN050268.D
Acq On : 2 Aug 2018 16:59
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Sample : PB111674ZHE#06
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#06

Quant Time: Aug 03 01:14:45 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 26 18:10:10 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050268.D

Acq: 2 Aug 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

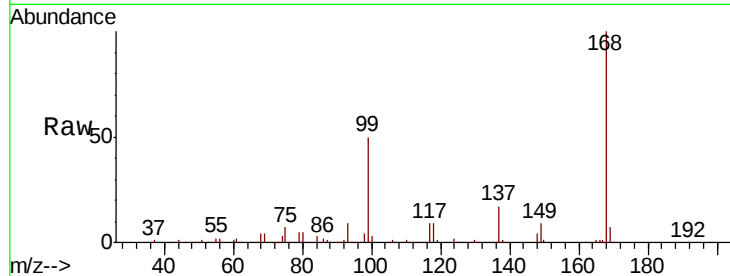
PB111674ZHE#06

Tot Ion:168 Resp: 640783

Ion Ratio Lower Upper

168 100

99 50.3 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

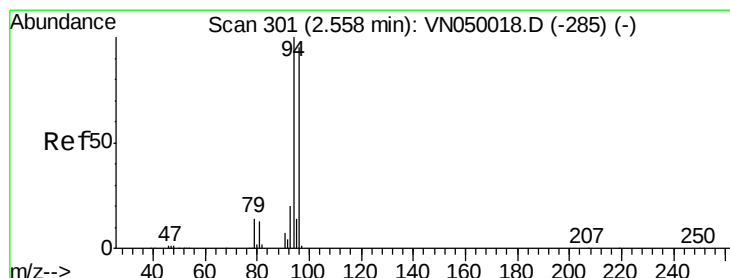
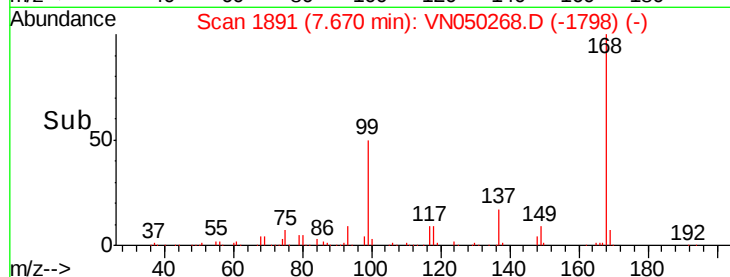
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 296

Delta R.T. -0.01 min

Lab File: VN050268.D

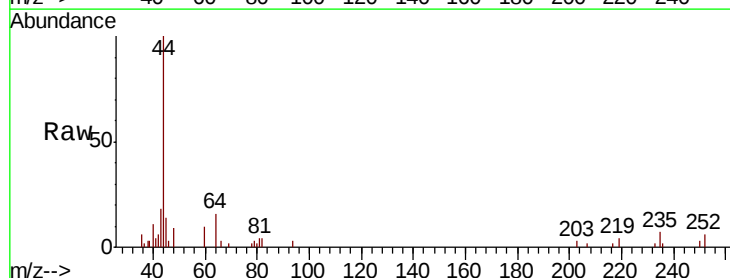
Acq: 2 Aug 2018 16:59

Tgt Ion: 94 Resp: 68

Ion Ratio Lower Upper

94 100

96 0.0 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

250

200

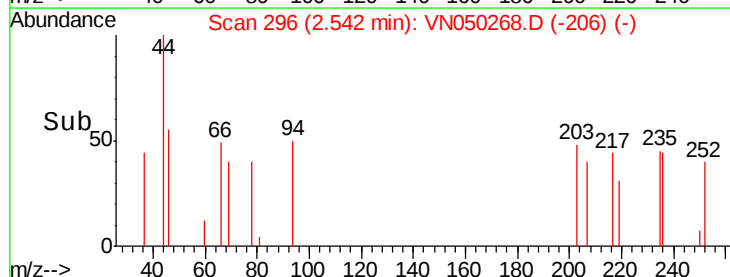
150

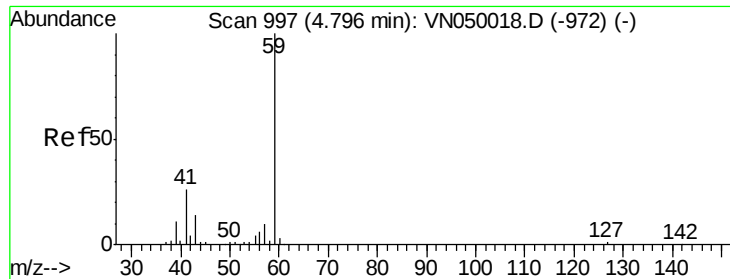
100

50

0

Time-->

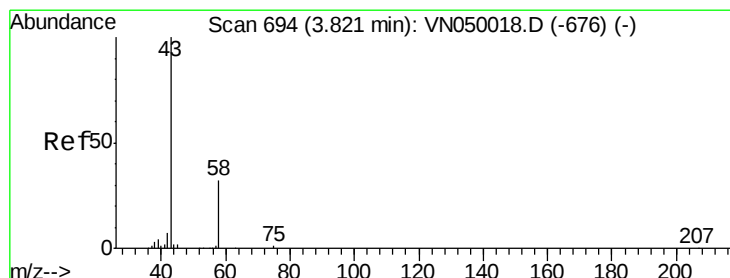
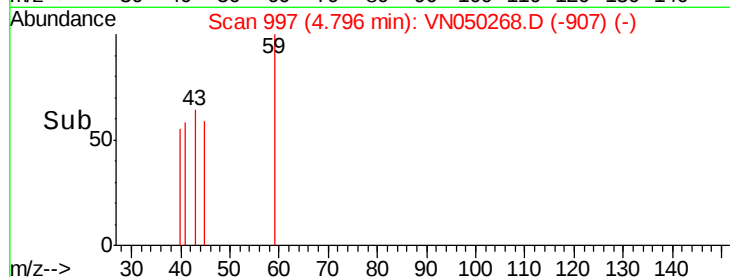
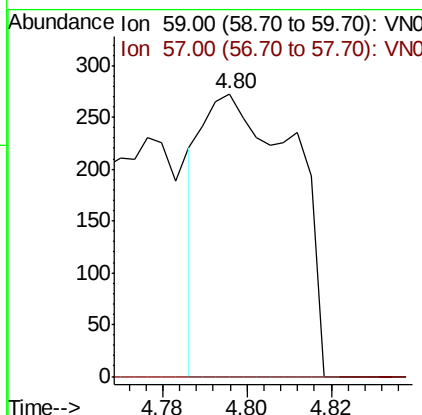
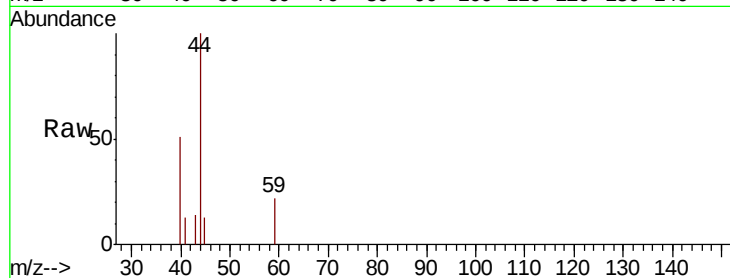




#11
Tert butyl alcohol
Concen: 0.63 ug/l
RT: 4.80 min Scan# 997
Delta R.T. -0.01 min
Lab File: VN050268.D
Acq: 2 Aug 2018 16:59

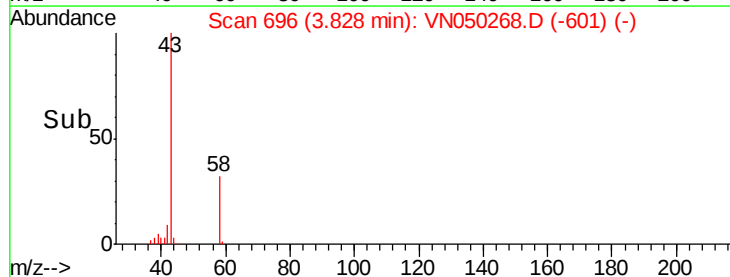
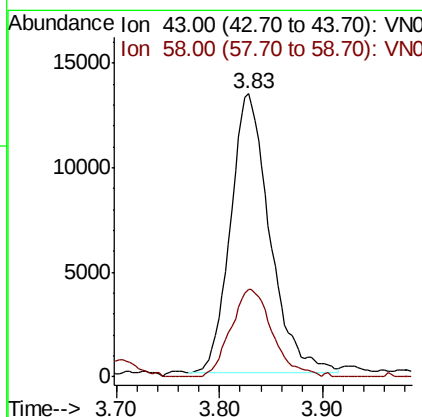
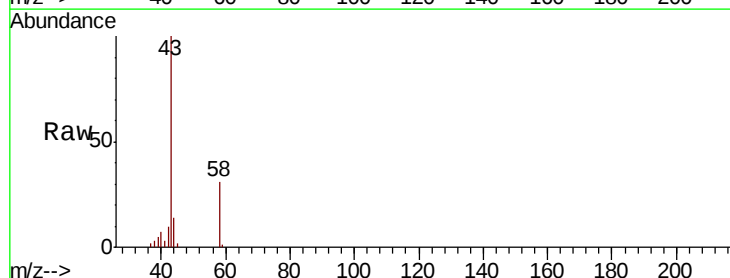
Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#06

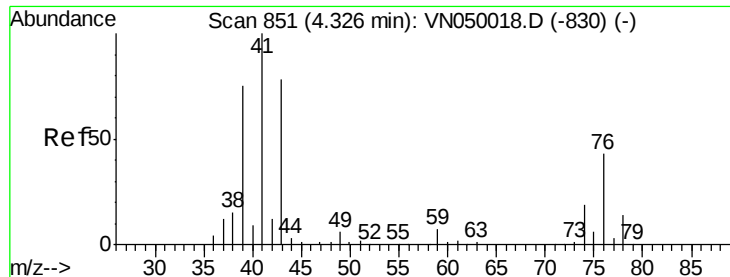
Tot Ion: 59 Resp: 412
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#16
Acetone
Concen: 12.76 ug/l
RT: 3.83 min Scan# 696
Delta R.T. 0.00 min
Lab File: VN050268.D
Acq: 2 Aug 2018 16:59

Tgt Ion: 43 Resp: 35553
Ion Ratio Lower Upper
43 100
58 31.6 25.8 38.8

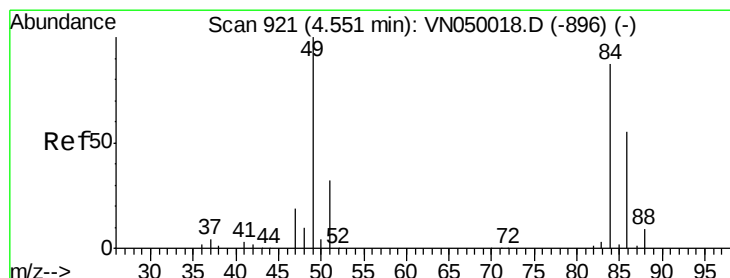
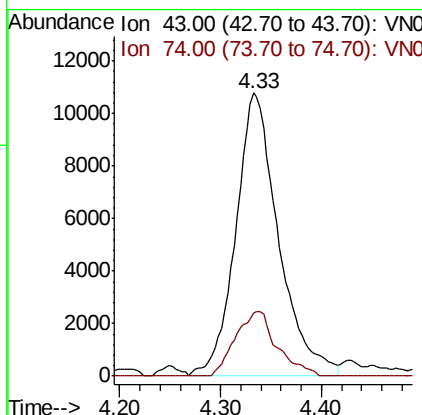
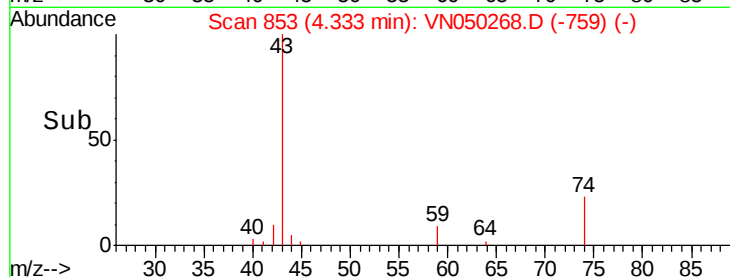
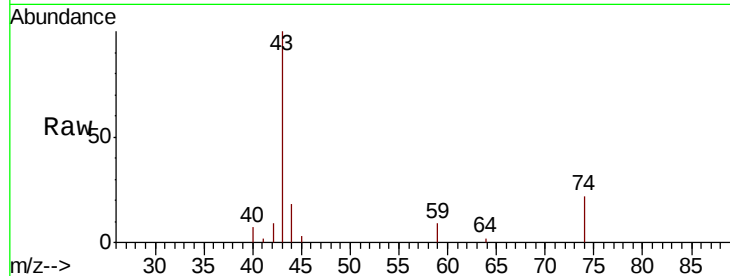




#18
Methyl Acetate
Concen: 2.33 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.00 min
Lab File: VN050268.D
Acq: 2 Aug 2018 16:59

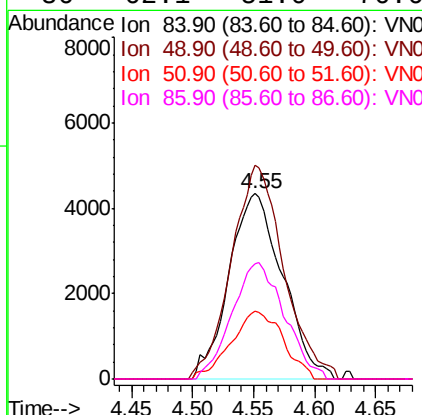
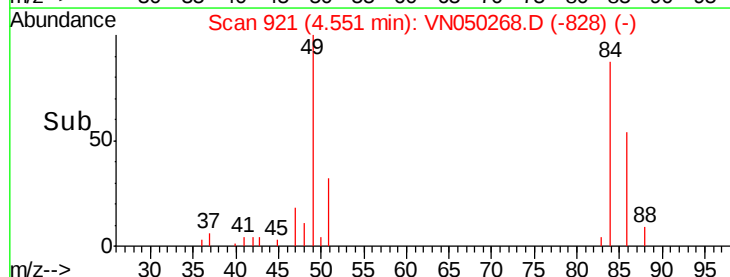
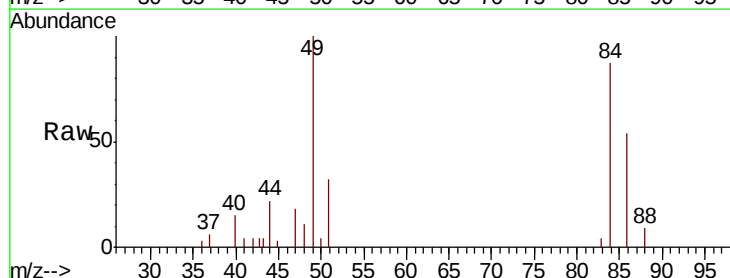
Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#06

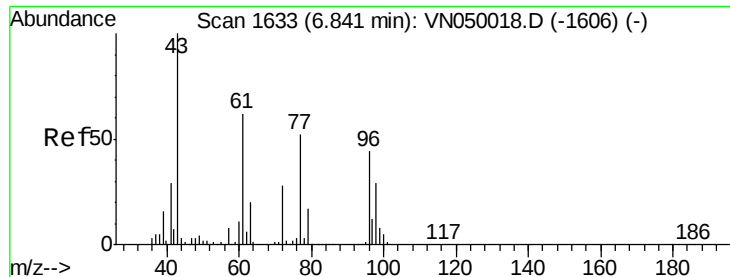
Tot Ion: 43 Resp: 31773
Ion Ratio Lower Upper
43 100
74 22.2 19.2 28.8



#20
Methylene Chloride
Concen: 0.43 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050268.D
Acq: 2 Aug 2018 16:59

Tgt Ion: 84 Resp: 13245
Ion Ratio Lower Upper
84 100
49 115.1 94.8 142.2
51 36.3 28.3 42.5
86 62.1 51.0 76.6

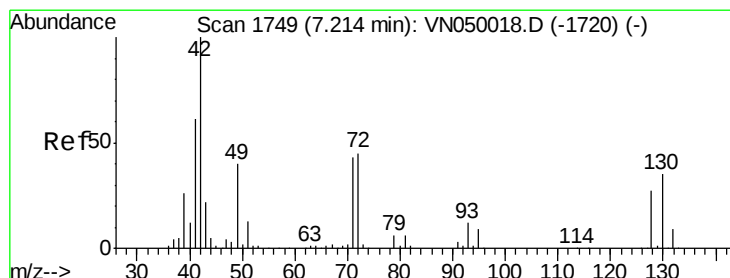
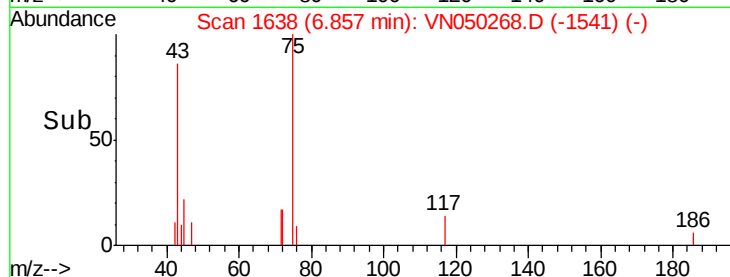
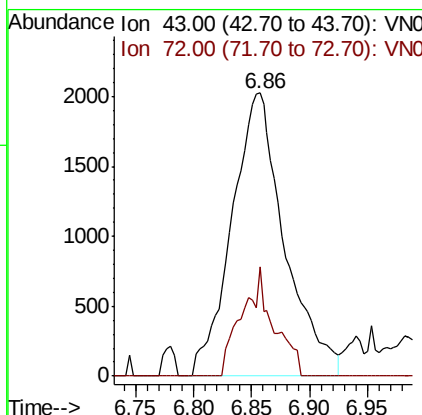
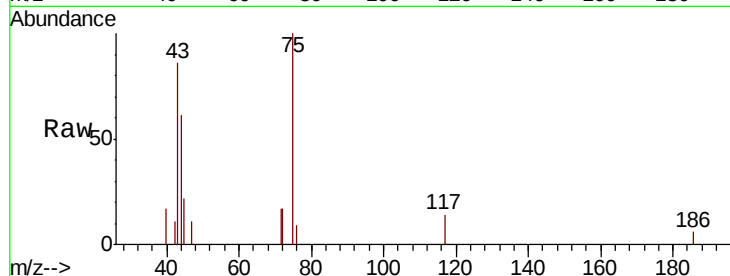




#25
2-Butanone
Concen: 1.88 ug/l
RT: 6.86 min Scan# 1638
Delta R.T. 0.01 min
Lab File: VN050268.D
Acq: 2 Aug 2018 16:59

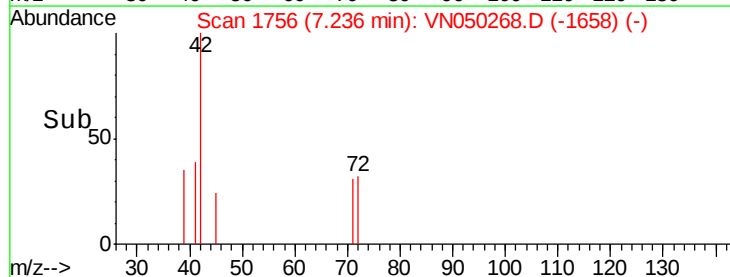
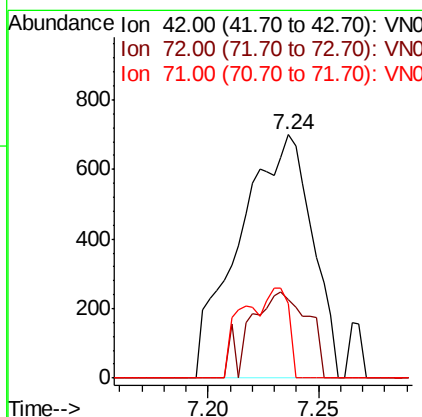
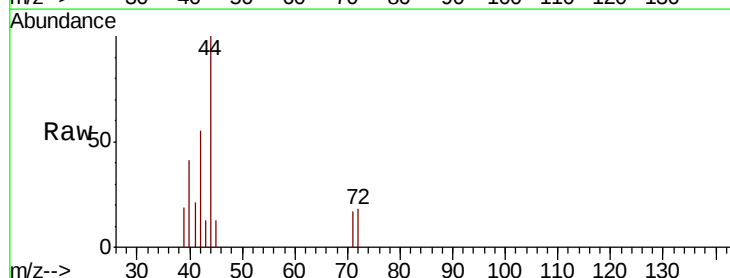
Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#06

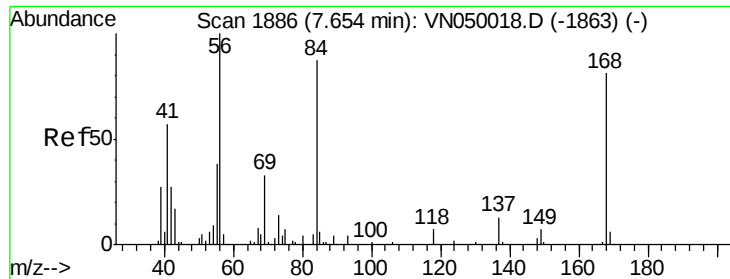
Tot Ion: 43 Resp: 6401
Ion Ratio Lower Upper
43 100
72 38.6 21.5 32.3#



#29
Tetrahydrofuran
Concen: 0.72 ug/l
RT: 7.24 min Scan# 1756
Delta R.T. 0.02 min
Lab File: VN050268.D
Acq: 2 Aug 2018 16:59

Tgt Ion: 42 Resp: 1597
Ion Ratio Lower Upper
42 100
72 28.1 35.9 53.9#
71 11.5 33.7 50.5#

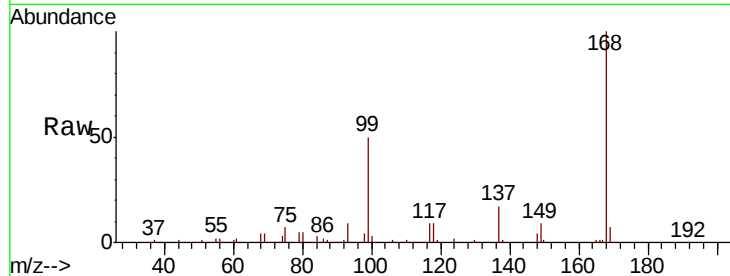




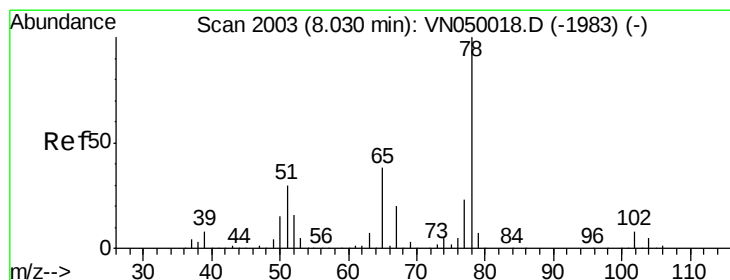
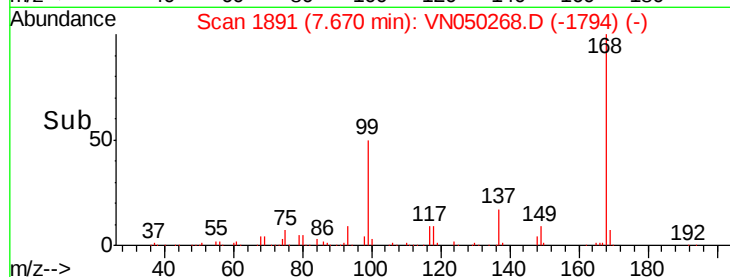
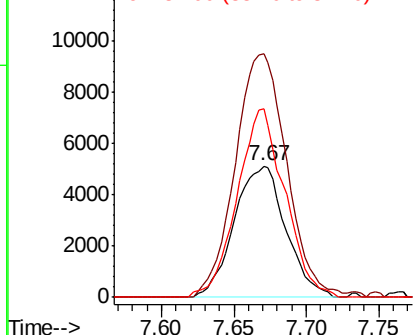
#31
Cyclohexane
Concen: 0.96 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. 0.01 min
Lab File: VN050268.D
Acq: 2 Aug 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#06

Tot Ion: 56 Resp: 12651
Ion Ratio Lower Upper
56 100
69 185.6 26.2 39.4#
84 143.4 67.4 101.0#

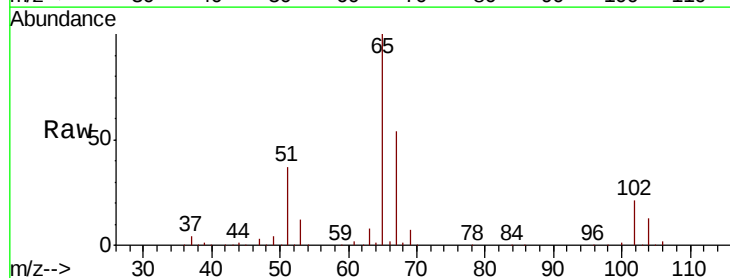


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

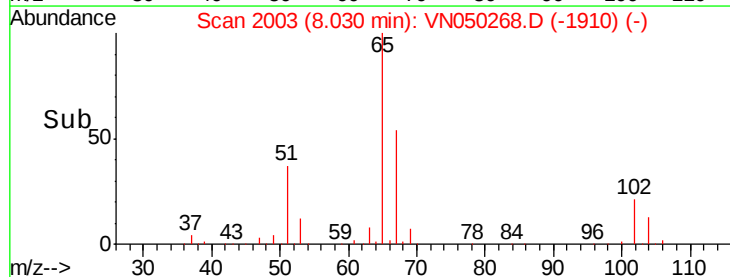
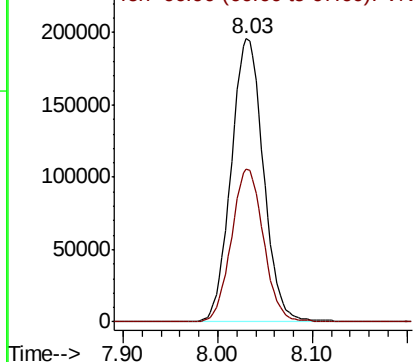


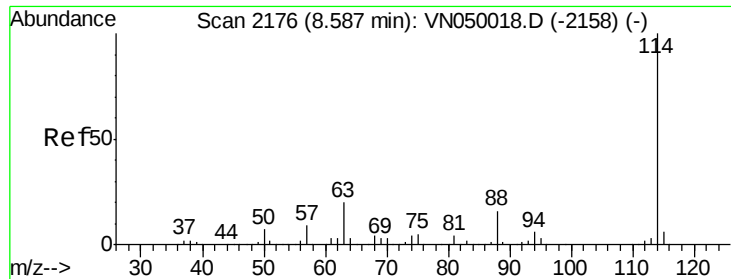
#33
1,2-Dichloroethane-d4
Concen: 51.91 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050268.D
Acq: 2 Aug 2018 16:59

Tgt Ion: 65 Resp: 464115
Ion Ratio Lower Upper
65 100
67 53.8 0.0 108.4



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

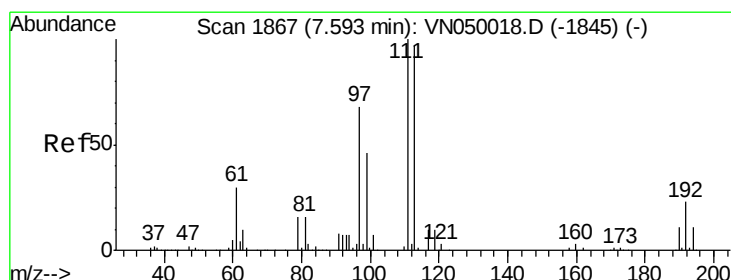
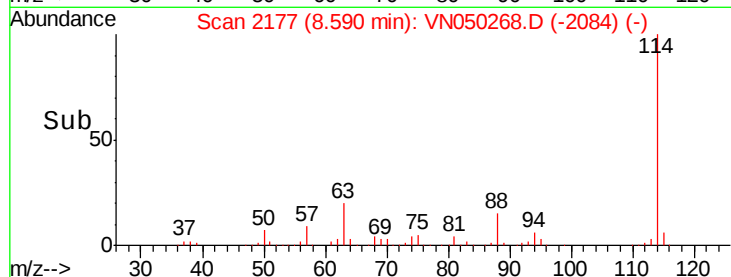
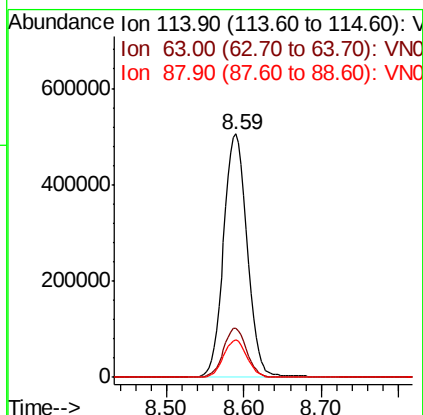
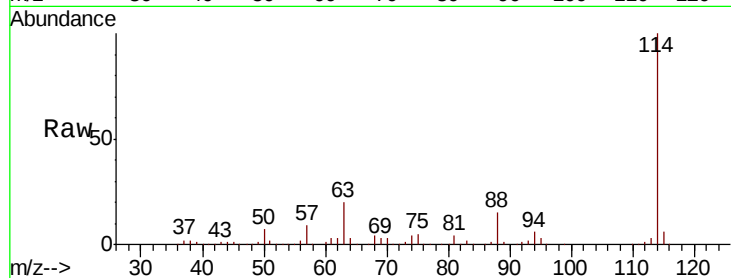




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050268.D
 Acq: 2 Aug 2018 16:59

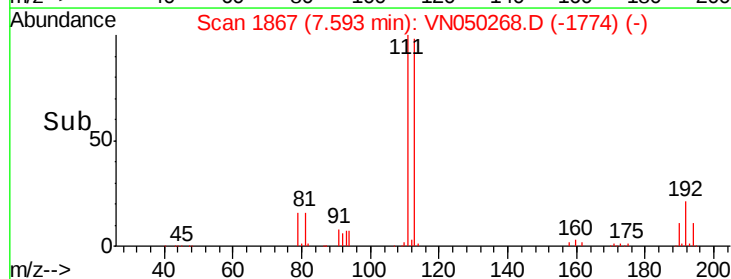
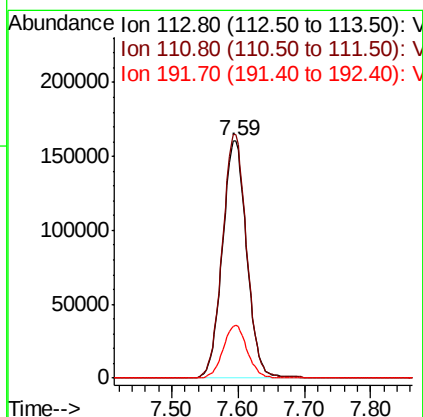
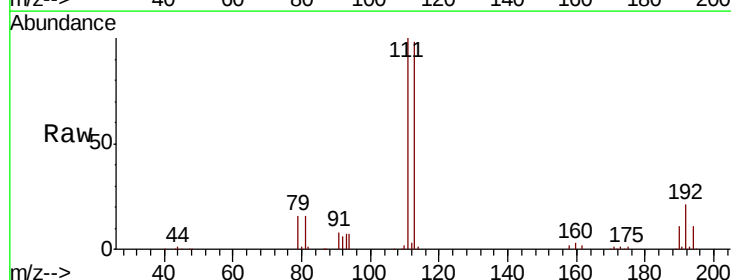
Instrument :
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 PB111674ZHE#06

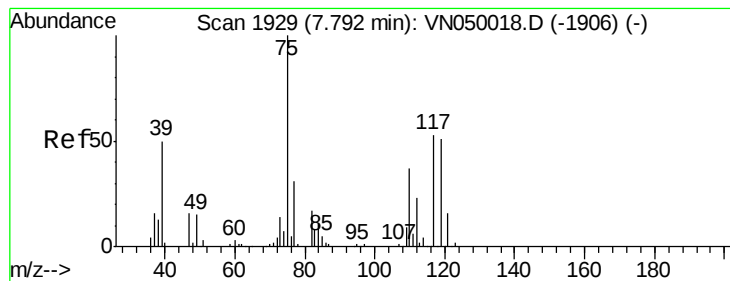
Tot Ion:114 Resp: 1072486
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 40.0
 88 15.2 0.0 31.2



#35
 Dibromofluoromethane
 Concen: 46.68 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050268.D
 Acq: 2 Aug 2018 16:59

Tgt Ion:113 Resp: 408721
 Ion Ratio Lower Upper
 113 100
 111 102.6 80.7 121.1
 192 22.0 17.8 26.6





#36

1,1-Dichloropropene

Concen: 3.75 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN050268.D

Acq: 2 Aug 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

PB111674ZHE#06

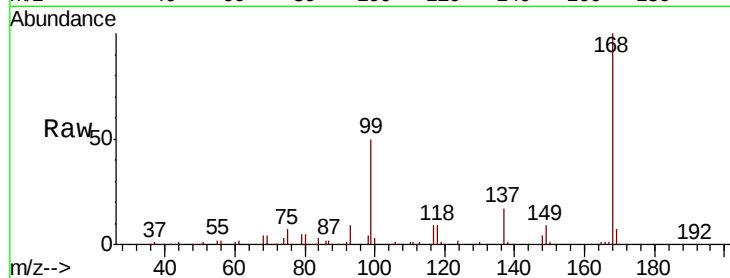
Tot Ion: 75 Resp: 45339

Ion Ratio Lower Upper

75 100

110 8.1 18.4 55.2#

77 0.0 25.3 37.9#

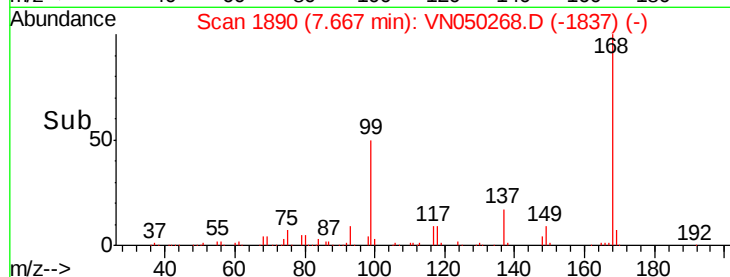


Abundance Ion 74.90 (74.60 to 75.60): VN050018.D (-1906) (-)

Ion 109.90 (109.60 to 110.60): VN050018.D (-1906) (-)

Ion 76.90 (76.60 to 77.60): VN050018.D (-1906) (-)

Time-->

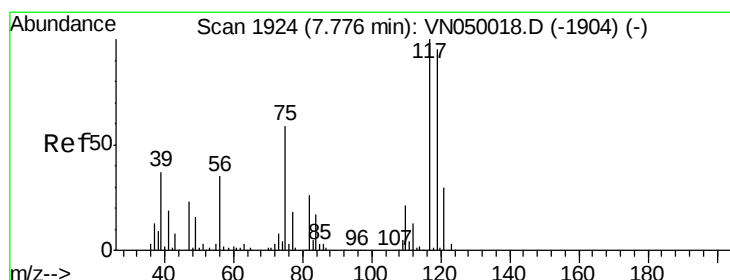


Abundance Ion 74.90 (74.60 to 75.60): VN050018.D (-1906) (-)

Ion 109.90 (109.60 to 110.60): VN050018.D (-1906) (-)

Ion 76.90 (76.60 to 77.60): VN050018.D (-1906) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 4.63 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.11 min

Lab File: VN050268.D

Acq: 2 Aug 2018 16:59

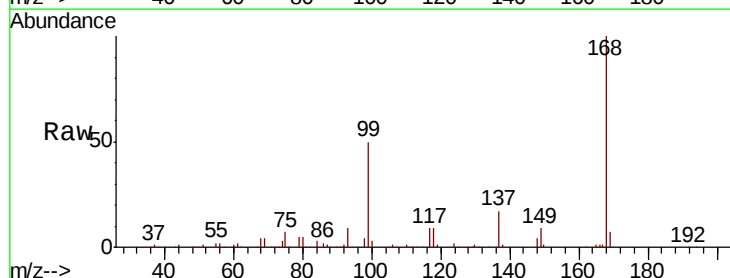
Tgt Ion: 117 Resp: 59380

Ion Ratio Lower Upper

117 100

119 6.1 77.4 116.0#

121 0.0 23.9 35.9#

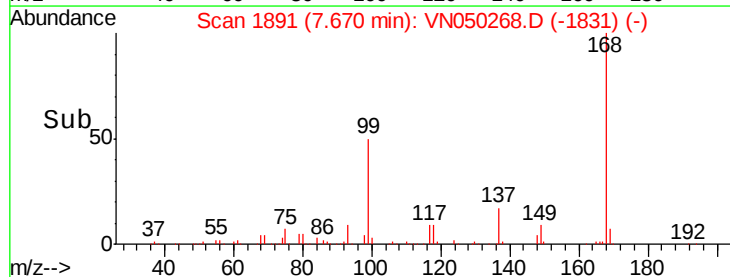


Abundance Ion 116.80 (116.50 to 117.50): VN050018.D (-1904) (-)

Ion 118.80 (118.50 to 119.50): VN050018.D (-1904) (-)

Ion 120.80 (120.50 to 121.50): VN050018.D (-1904) (-)

Time-->

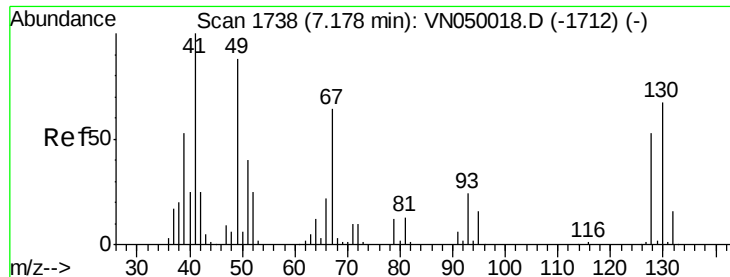


Abundance Ion 116.80 (116.50 to 117.50): VN050018.D (-1904) (-)

Ion 118.80 (118.50 to 119.50): VN050018.D (-1904) (-)

Ion 120.80 (120.50 to 121.50): VN050018.D (-1904) (-)

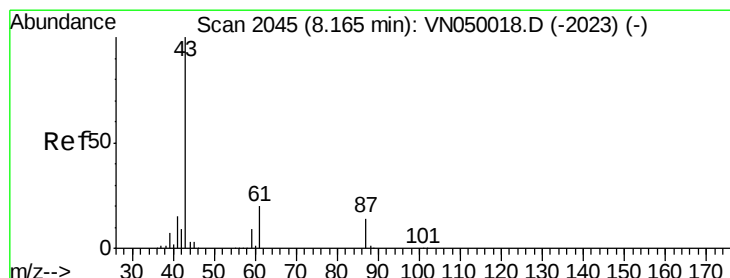
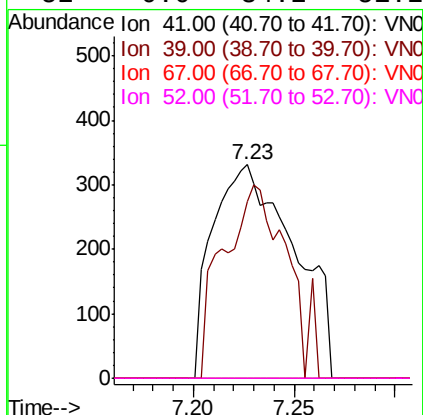
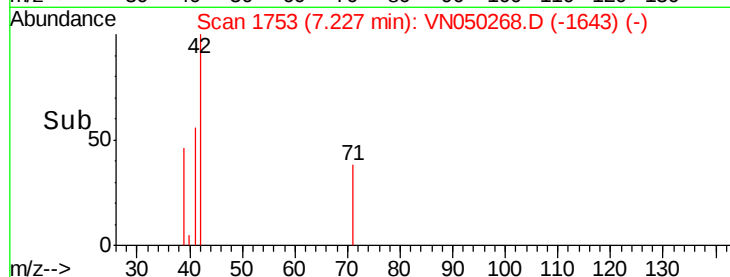
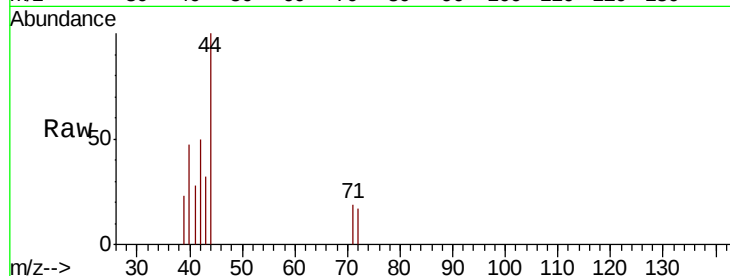
Time-->



#41
Methacrylonitrile
Concen: 2.95 ug/l
RT: 7.23 min Scan# 1753
Delta R.T. 0.05 min
Lab File: VN050268.D
Acq: 2 Aug 2018 16:59

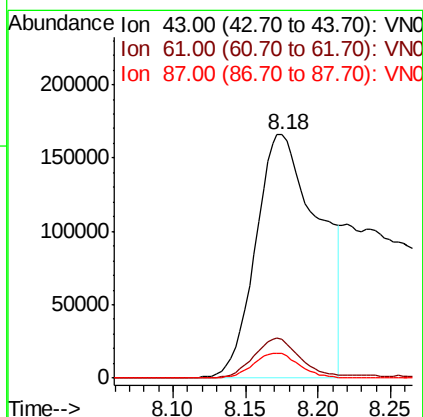
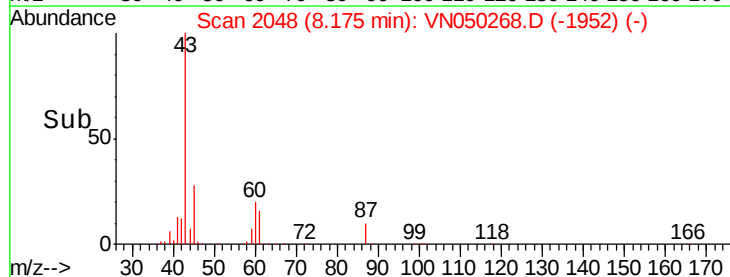
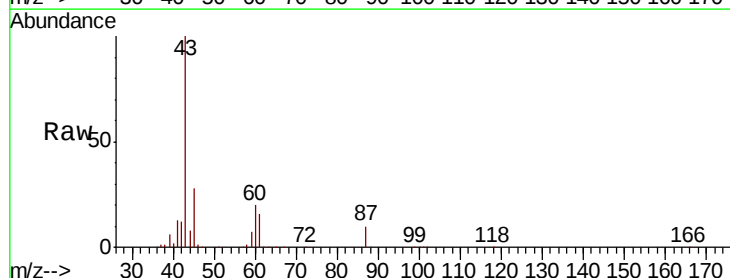
Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#06

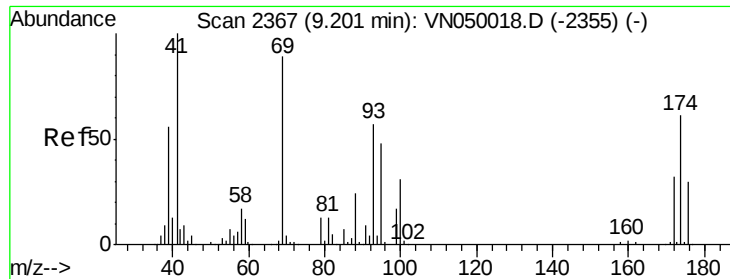
Tot Ion: 41 Resp: 927
Ion Ratio Lower Upper
41 100
39 71.4 55.8 83.6
67 0.0 84.3 126.5#
52 0.0 34.2 51.2#



#43
Isopropyl Acetate
Concen: 31.14 ug/l
RT: 8.18 min Scan# 2048
Delta R.T. 0.01 min
Lab File: VN050268.D
Acq: 2 Aug 2018 16:59

Tgt Ion: 43 Resp: 501117
Ion Ratio Lower Upper
43 100
61 12.8 15.8 23.6#
87 7.5 10.3 15.5#

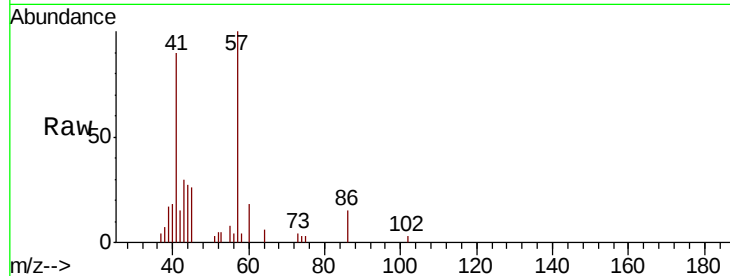




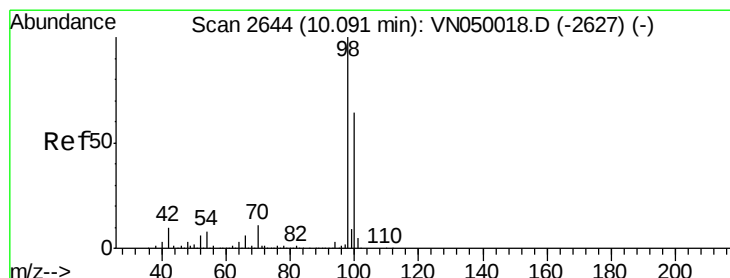
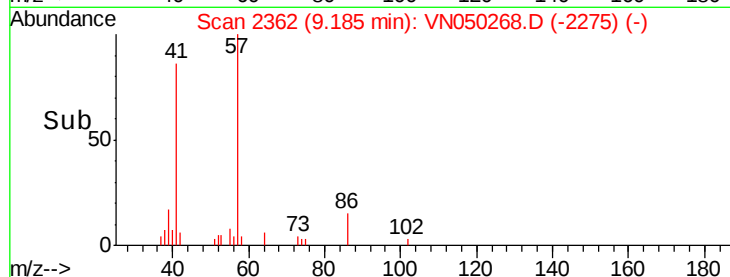
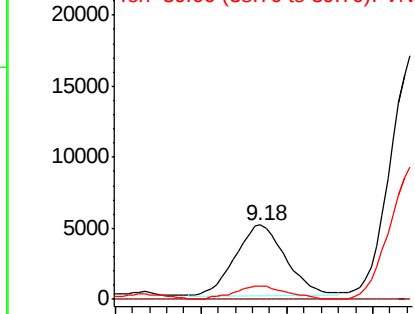
#48
Methvl methacrylate
Concen: 1.41 ug/l
RT: 9.18 min Scan# 2362
Delta R.T. -0.02 min
Lab File: VN050268.D
Acq: 2 Aug 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#06

Tot Ion: 41 Resp: 10255
Ion Ratio Lower Upper
41 100
69 0.0 70.6 105.8#
39 19.3 43.9 65.9#

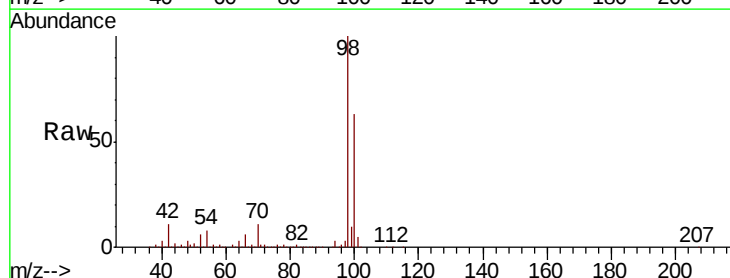


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

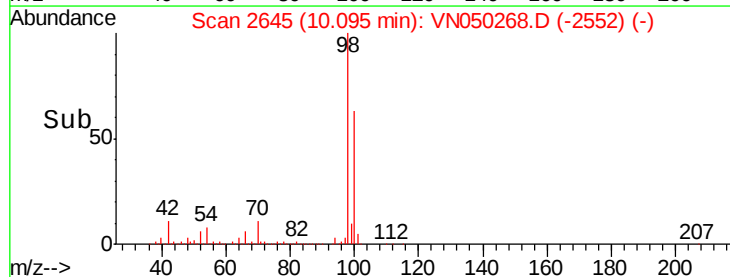
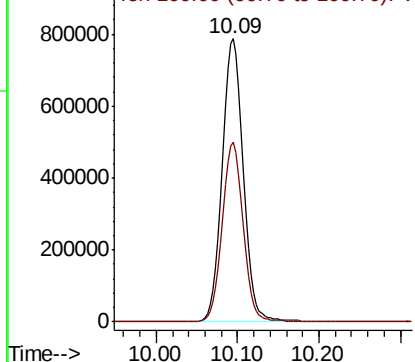


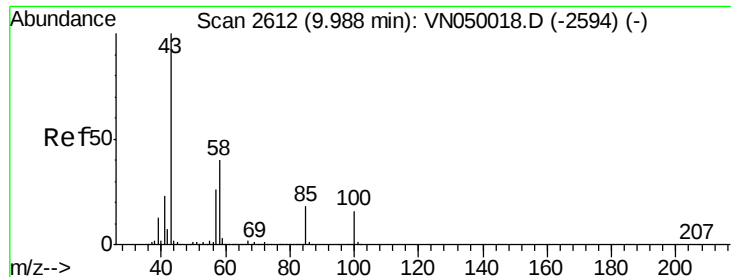
#50
Toluene-d8
Concen: 45.09 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050268.D
Acq: 2 Aug 2018 16:59

Tgt Ion: 98 Resp: 1451504
Ion Ratio Lower Upper
98 100
100 63.2 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.45 ug/l

RT: 9.99 min Scan# 2613

Delta R.T. 0.00 min

Lab File: VN050268.D

Acq: 2 Aug 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

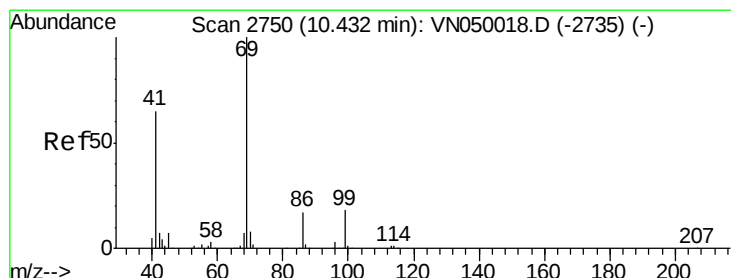
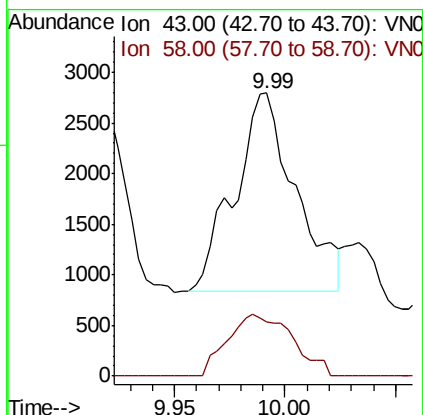
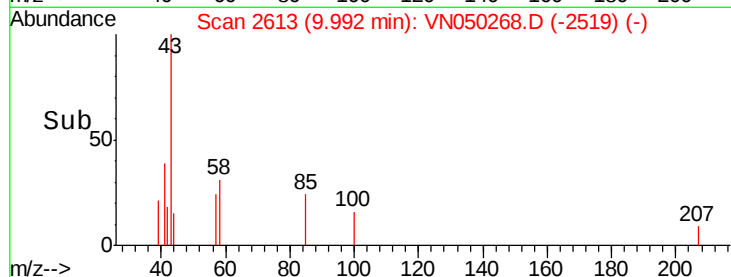
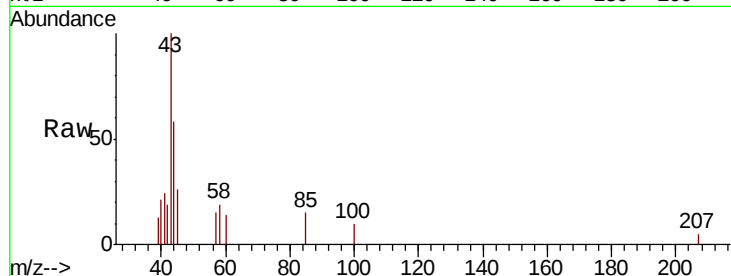
PB111674ZHE#06

Tot Ion: 43 Resp: 3749

Ion Ratio Lower Upper

43 100

58 33.2 31.9 47.9



#56

Ethyl methacrylate

Concen: 2.04 ug/l

RT: 10.29 min Scan# 2705

Delta R.T. -0.14 min

Lab File: VN050268.D

Acq: 2 Aug 2018 16:59

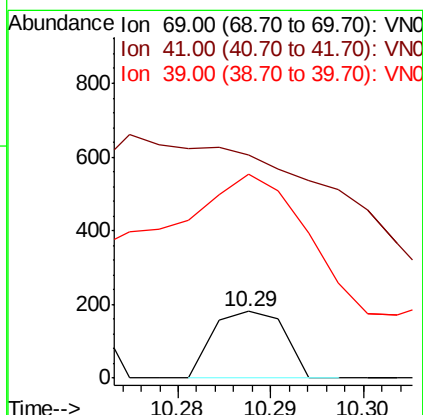
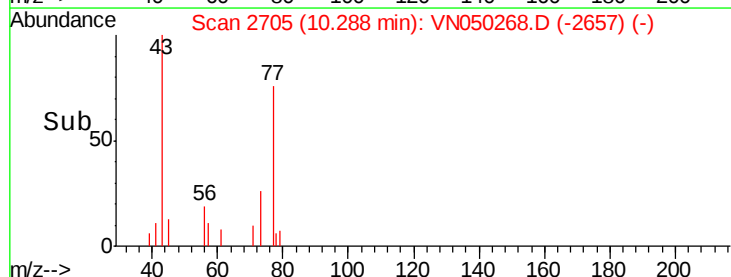
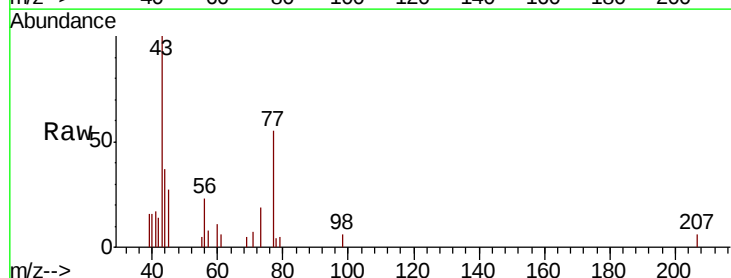
Tgt Ion: 69 Resp: 96

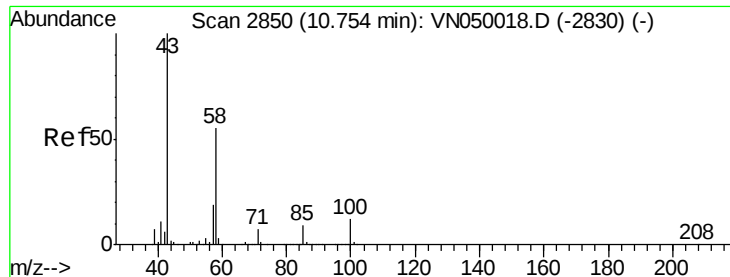
Ion Ratio Lower Upper

69 100

41 1674.0 51.0 76.4#

39 586.5 26.6 40.0#





#59

2-Hexanone

Concen: 9.03 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050268.D

Acq: 2 Aug 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

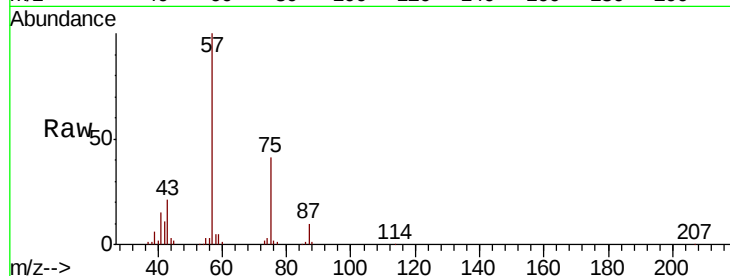
PB111674ZHE#06

Tot Ion: 43 Resp: 23991

Ion Ratio Lower Upper

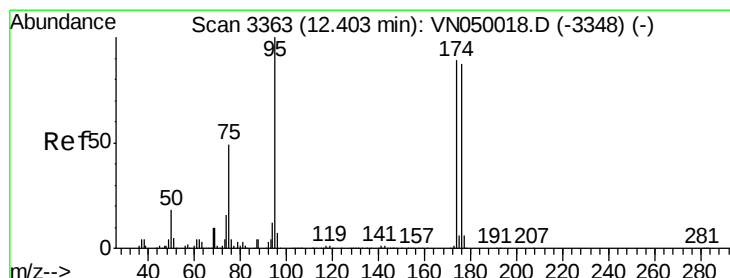
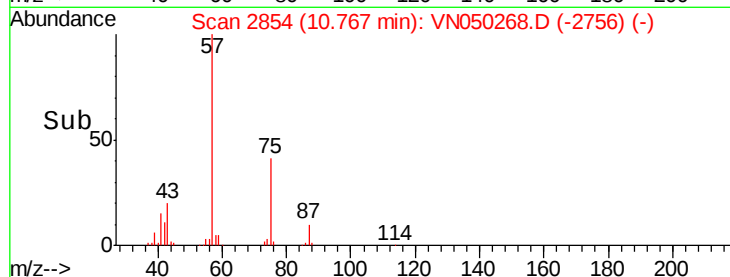
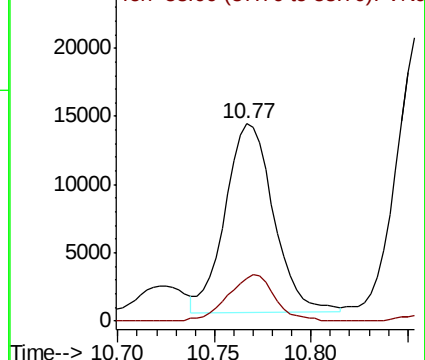
43 100

58 23.9 27.6 82.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: 36.66 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050268.D

Acq: 2 Aug 2018 16:59

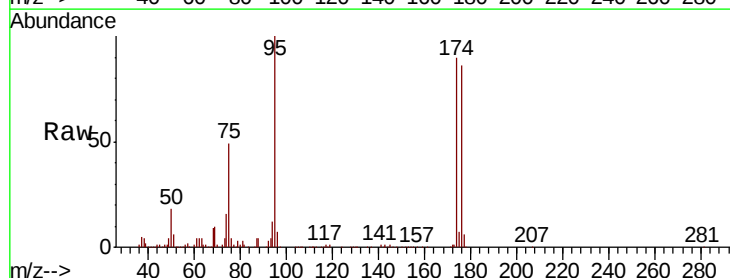
Tgt Ion: 95 Resp: 388615

Ion Ratio Lower Upper

95 100

174 91.4 0.0 178.2

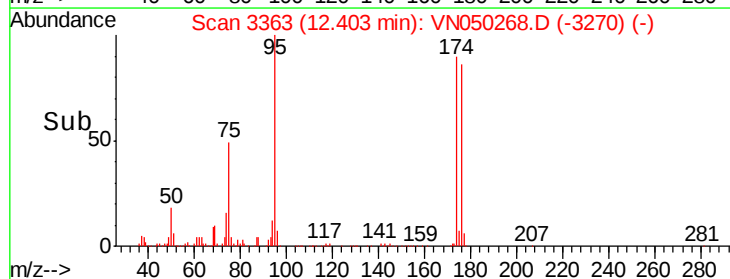
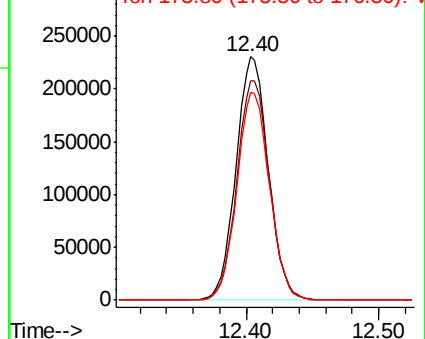
176 86.3 0.0 173.4

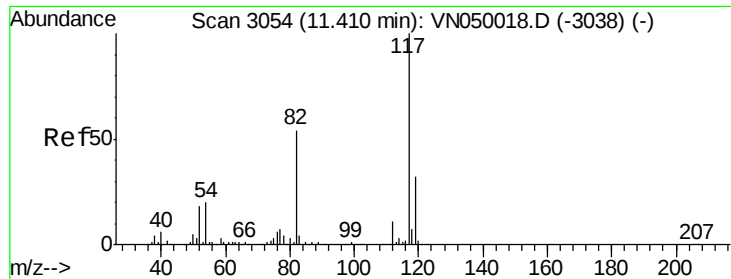


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

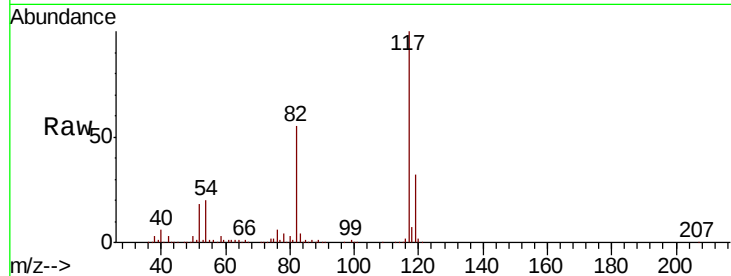




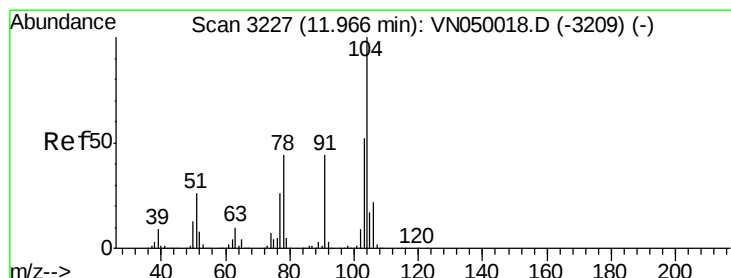
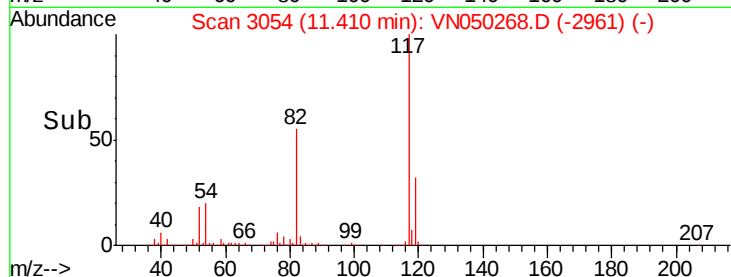
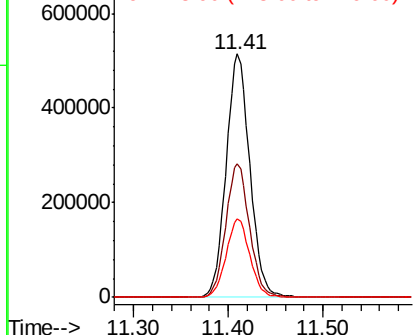
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050268.D
Acq: 2 Aug 2018 16:59

Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#06

Tot Ion:117 Resp: 895815
Ion Ratio Lower Upper
117 100
82 55.0 43.7 65.5
119 32.1 26.1 39.1

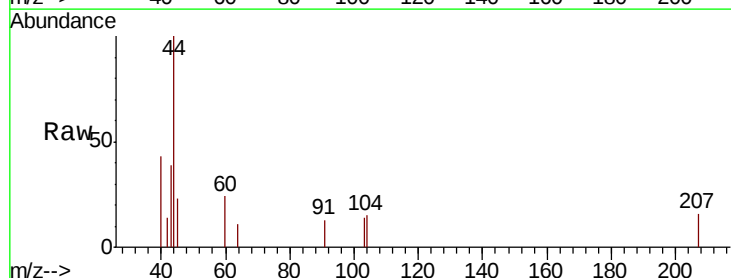


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

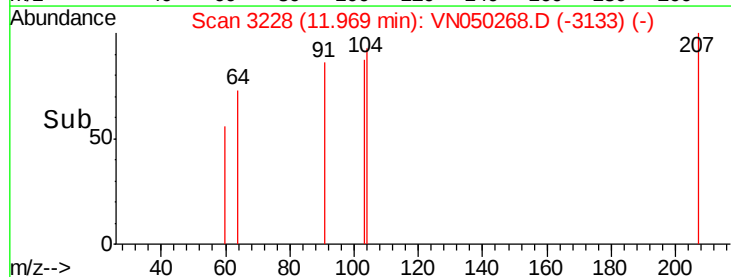
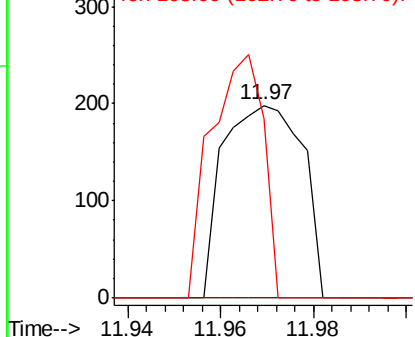


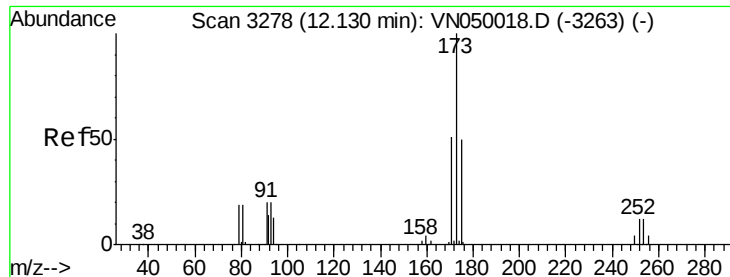
#70
Styrene
Concen: 0.93 ug/l
RT: 11.97 min Scan# 3228
Delta R.T. 0.00 min
Lab File: VN050268.D
Acq: 2 Aug 2018 16:59

Tgt Ion:104 Resp: 237
Ion Ratio Lower Upper
104 100
78 0.0 39.3 58.9#
103 82.7 45.0 67.6#



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





#71

Bromoform

Concen: 0.57 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN050268.D

Acq: 2 Aug 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

PB111674ZHE#06

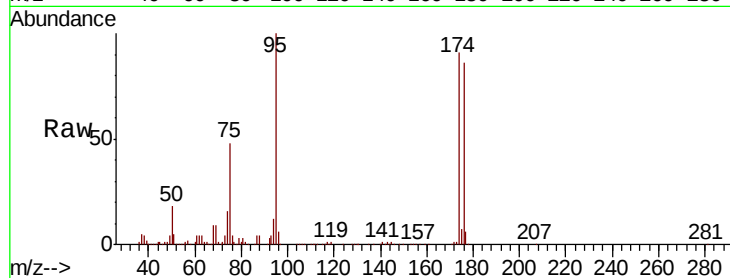
Tot Ion:173 Resp: 3609

Ion Ratio Lower Upper

173 100

175 618.8 24.1 72.2#

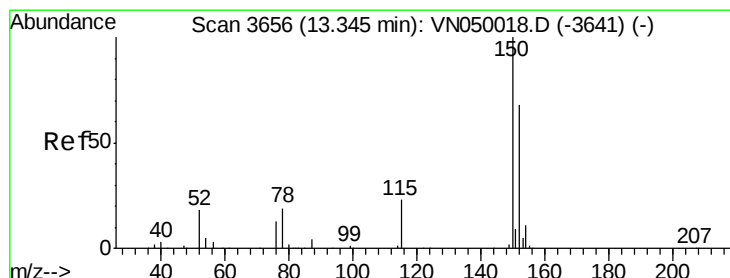
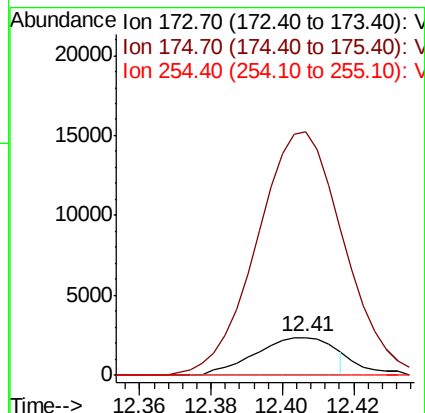
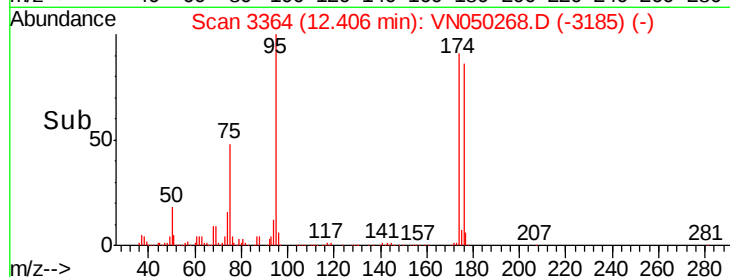
254 0.0 0.2 0.2#



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: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN050268.D

Acq: 2 Aug 2018 16:59

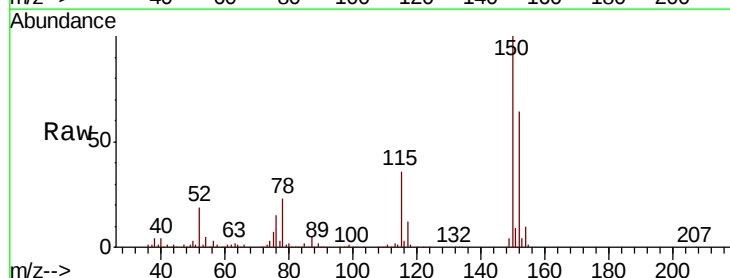
Tgt Ion:152 Resp: 312521

Ion Ratio Lower Upper

152 100

115 56.3 27.8 83.3

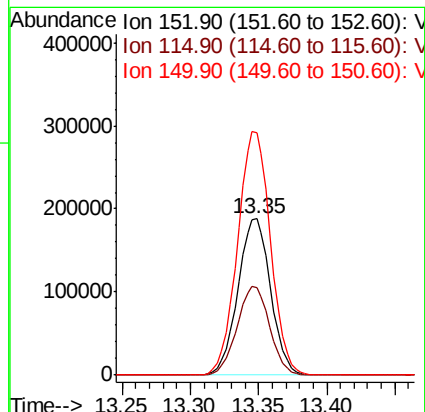
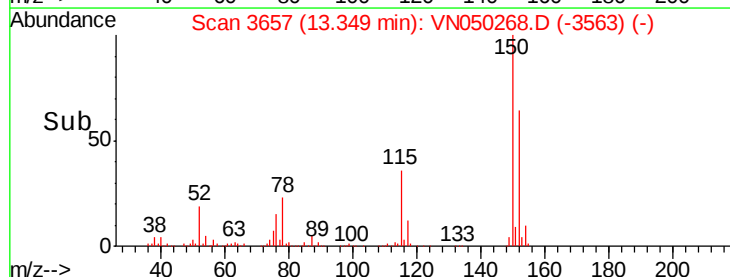
150 156.4 0.0 348.6

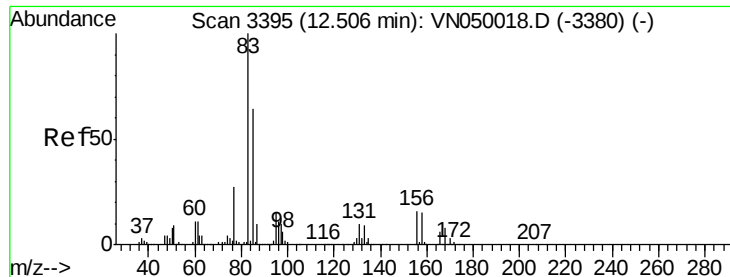


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3363

Delta R.T. -0.10 min

Lab File: VN050268.D

Acq: 2 Aug 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

PB111674ZHE#06

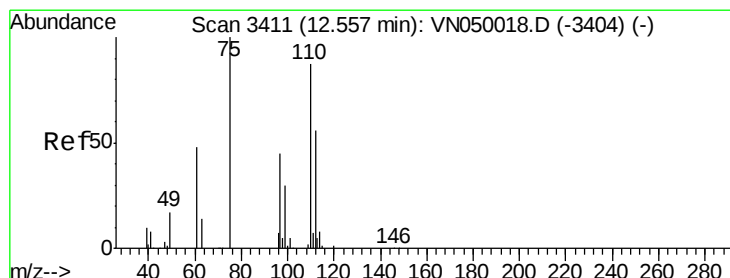
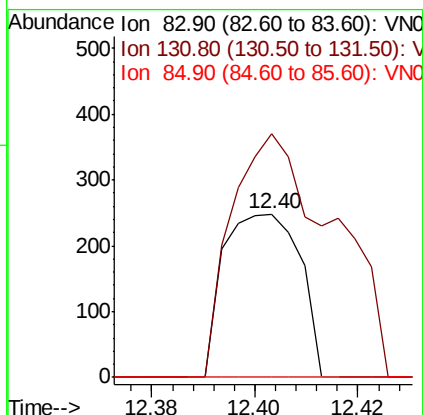
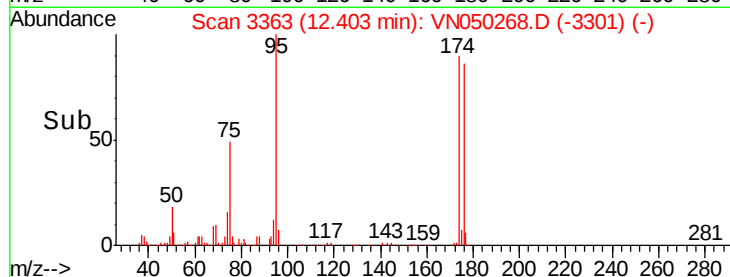
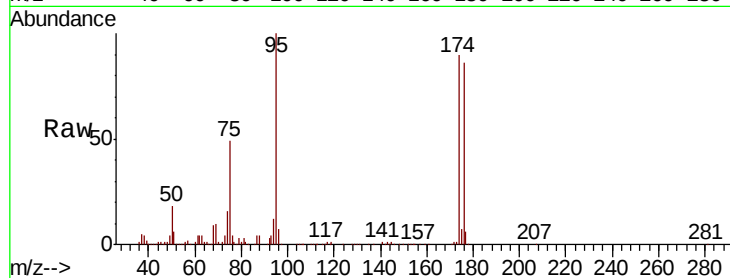
Tot Ion: 83 Resp: 253

Ion Ratio Lower Upper

83 100

131 200.4 5.1 15.3#

85 0.0 32.3 96.8#



#76

1,2,3-Trichloropropane

Concen: 32.79 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050268.D

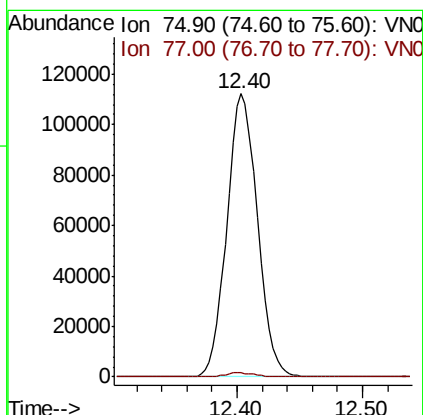
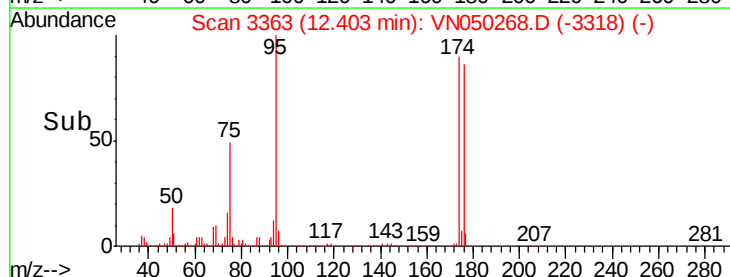
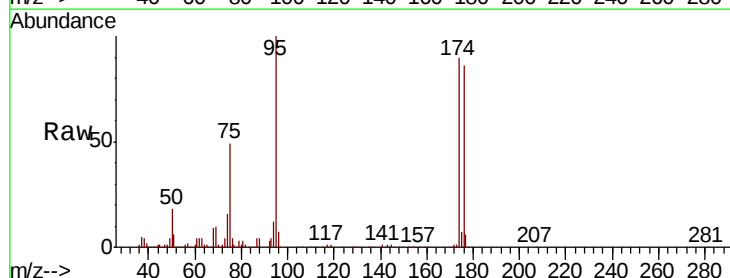
Acq: 2 Aug 2018 16:59

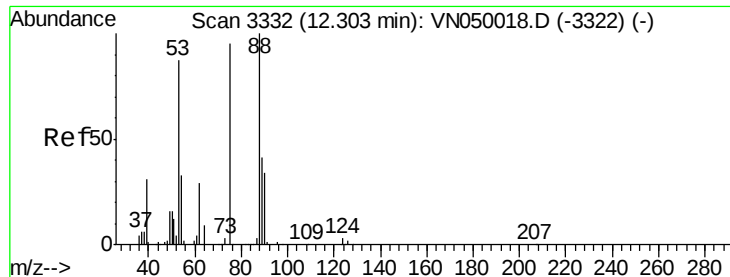
Tgt Ion: 75 Resp: 190435

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 104.00 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050268.D

Acq: 2 Aug 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

PB111674ZHE#06

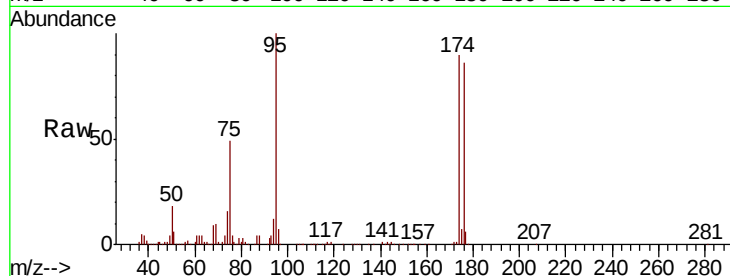
Tot Ion: 75 Resp: 190435

Ion Ratio Lower Upper

75 100

53 0.1 73.5 110.3#

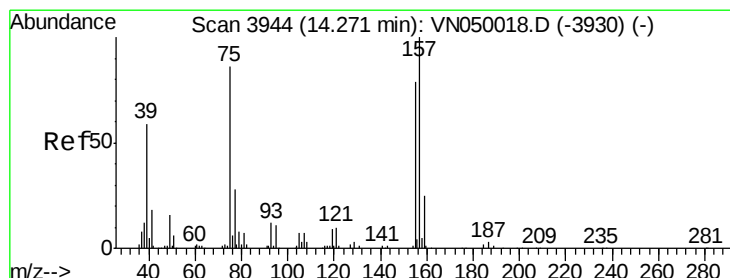
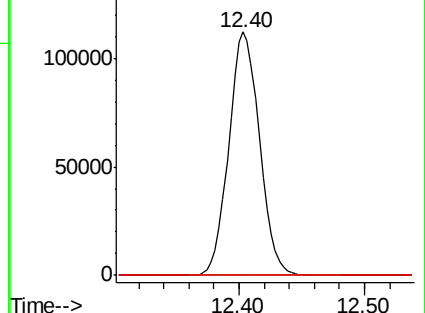
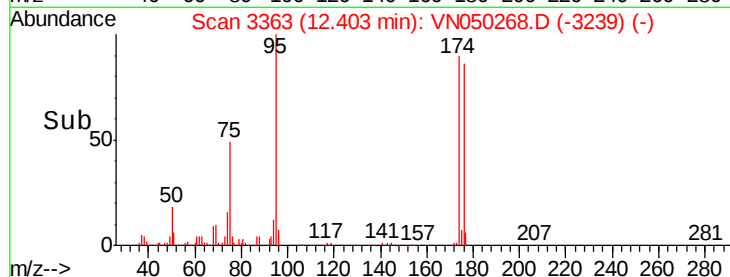
89 0.0 36.0 54.0#



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: Below Cal

RT: 14.26 min Scan# 3940

Delta R.T. -0.01 min

Lab File: VN050268.D

Acq: 2 Aug 2018 16:59

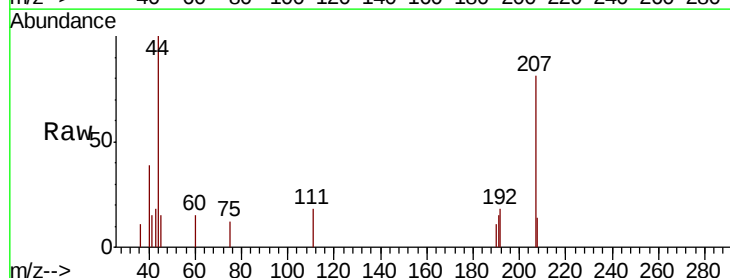
Tgt Ion: 75 Resp: 65

Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

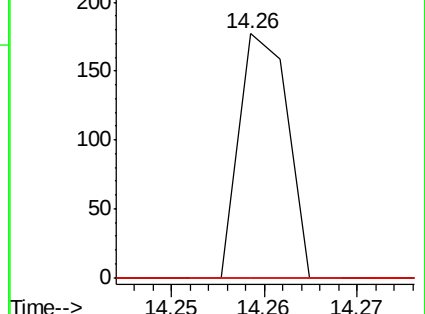
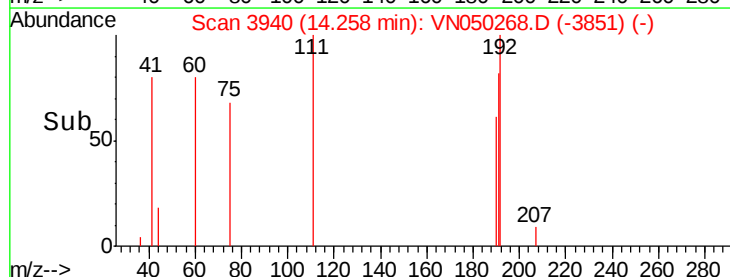
157 0.0 57.2 171.6#

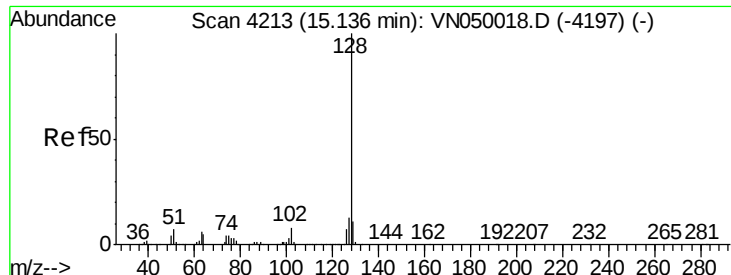


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 4.49 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050268.D

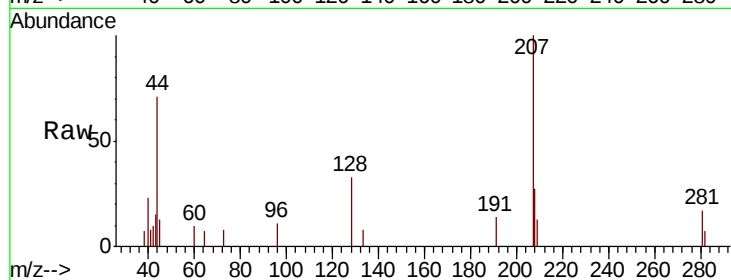
Acq: 2 Aug 2018 16:59

Instrument :

MSVOA_N

ClientSampleId :

PB111674ZHE#06



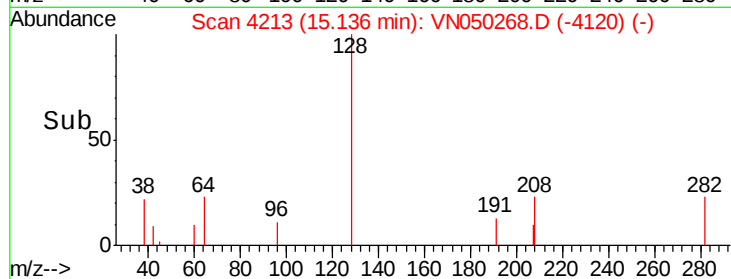
Tot Ion:128 Resp: 1238

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.8 13.2#



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

