

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080218\
 Data File : VN050265.D
 Acq On : 2 Aug 2018 15:44
 Operator : MD\SY
 Sample : PB111674ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111674ZHE#03

Quant Time: Aug 03 01:14:00 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	662084	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1093667	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	900035	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	290529	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	462297	50.05	ug/l	0.00
Spiked Amount			Recovery	=	100.10%	
35) Dibromofluoromethane	7.59	113	412756	46.22	ug/l	0.00
Spiked Amount			Recovery	=	92.44%	
50) Toluene-d8	10.09	98	1464909	44.62	ug/l	0.00
Spiked Amount			Recovery	=	89.24%	
62) 4-Bromofluorobenzene	12.40	95	378900	35.05	ug/l	0.00
Spiked Amount			Recovery	=	70.10%	

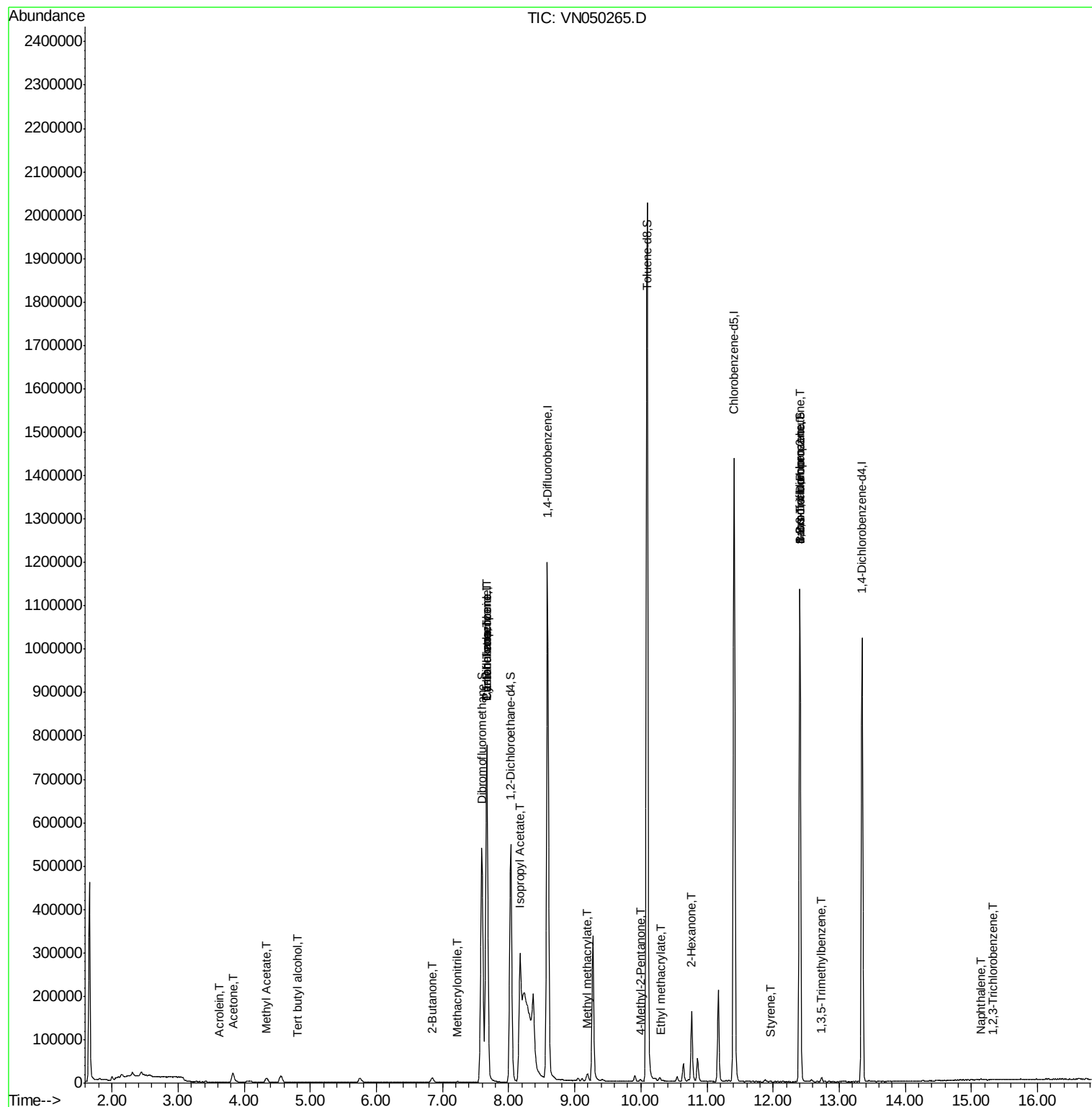
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	736	Below Cal		93
11) Tert butyl alcohol	4.82	59	167	0.25 ug/l	#	72
13) Acrolein	3.62	56	122	0.22 ug/l	#	15
16) Acetone	3.83	43	35950	12.39 ug/l		97
18) Methyl Acetate	4.34	43	18764	0.61 ug/l		99
25) 2-Butanone	6.84	43	3198	0.91 ug/l	#	84
31) Cyclohexane	7.67	56	12667	0.93 ug/l	#	1
36) 1,1-Dichloropropene	7.67	75	46373	3.76 ug/l	#	50
38) Carbon Tetrachloride	7.67	117	59653	4.56 ug/l	#	17
41) Methacrylonitrile	7.21	41	463	2.85 ug/l	#	15
43) Isopropyl Acetate	8.17	43	373726	22.46 ug/l		93
48) Methyl methacrylate	9.18	41	9341	1.26 ug/l	#	23
51) 4-Methyl-2-Pentanone	9.99	43	3490	0.41 ug/l		89
56) Ethyl methacrylate	10.31	69	129	2.04 ug/l	#	26
59) 2-Hexanone	10.77	43	22945	8.80 ug/l	#	59
70) Styrene	11.96	104	424	0.94 ug/l	#	69
71) Bromoform	12.40	173	2952	0.46 ug/l	#	1
75) 1,1,2,2-Tetrachloroethane	12.41	83	224	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	184191	34.11 ug/l	#	100
80) 1,3,5-Trimethylbenzene	12.73	105	4369	0.25 ug/l		98
81) trans-1,4-Dichloro-2-buten	12.40	75	184191	108.20 ug/l	#	13
92) 1,2-Dibromo-3-Chloropropan	14.26	75	61	Below Cal	#	1
95) Naphthalene	15.14	128	2162	4.56 ug/l	#	85
96) 1,2,3-Trichlorobenzene	15.32	180	110	2.22 ug/l	#	12

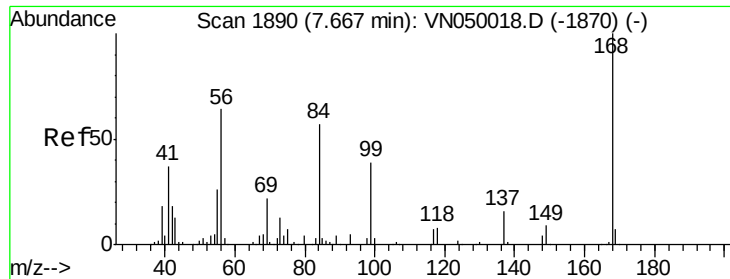
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN050265.D

Acq: 2 Aug 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

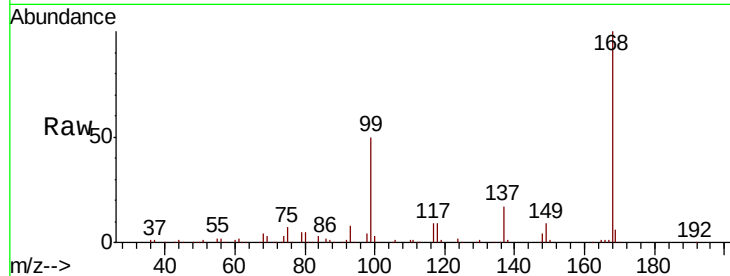
PB111674ZHE#03

Tot Ion:168 Resp: 662084

Ion Ratio Lower Upper

168 100

99 50.0 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

300000

250000

200000

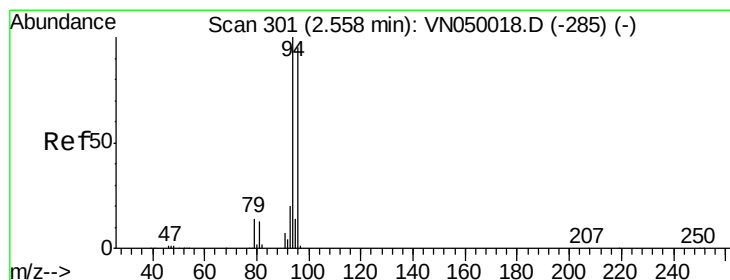
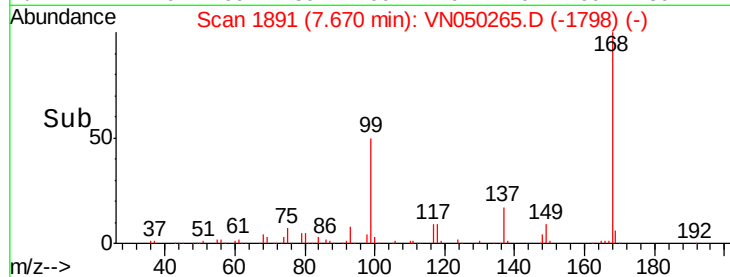
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 306

Delta R.T. 0.02 min

Lab File: VN050265.D

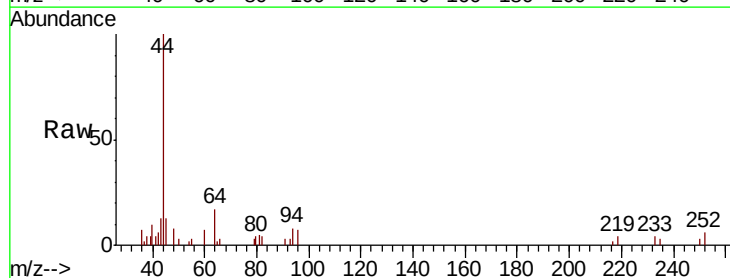
Acq: 2 Aug 2018 15:44

Tgt Ion: 94 Resp: 736

Ion Ratio Lower Upper

94 100

96 86.4 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

2.57

600

500

400

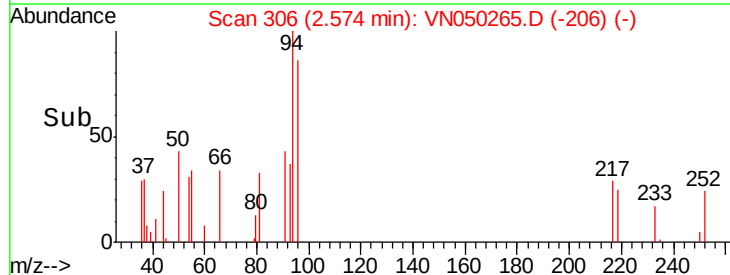
300

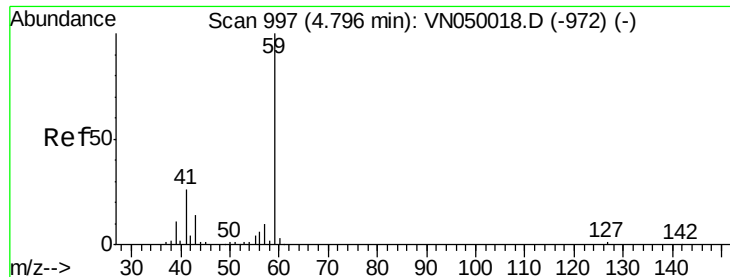
200

100

0

Time-->



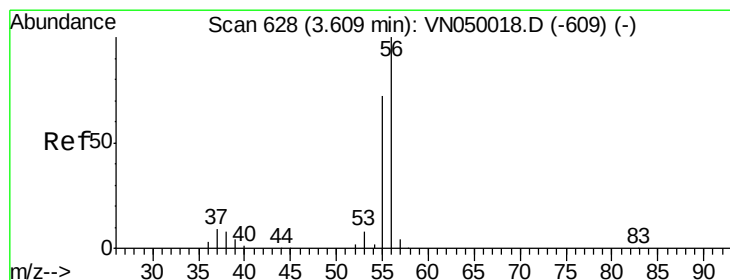
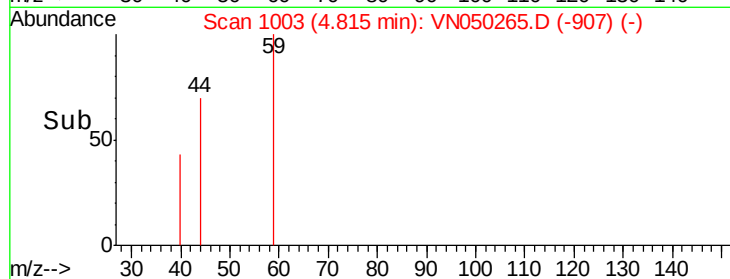
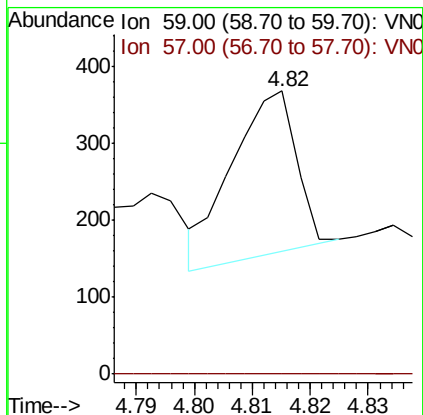
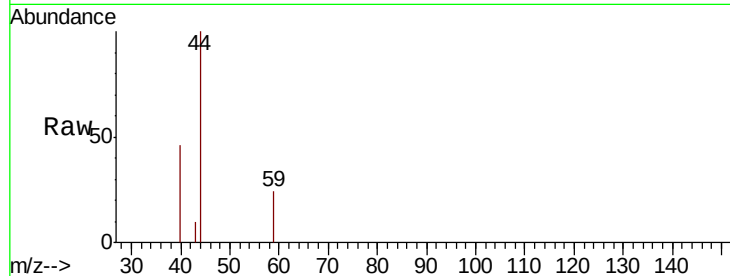


#11

Tert butyl alcohol
 Concen: 0.25 ug/l
 RT: 4.82 min Scan# 1003
 Delta R.T. 0.01 min
 Lab File: VN050265.D
 Acq: 2 Aug 2018 15:44

Instrument :
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 PB111674ZHE#03

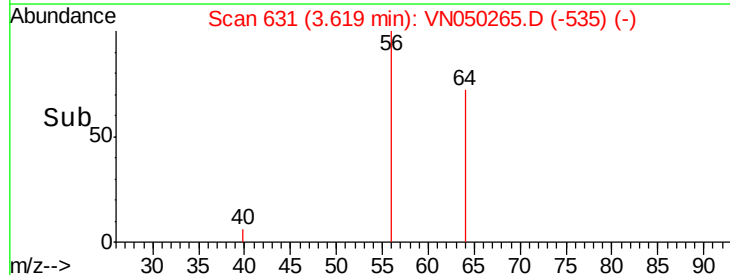
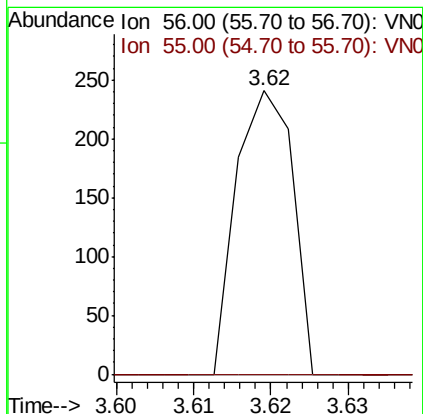
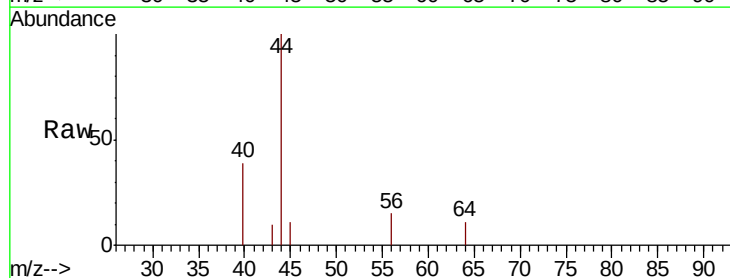
Tot Ion: 59 Resp: 167
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

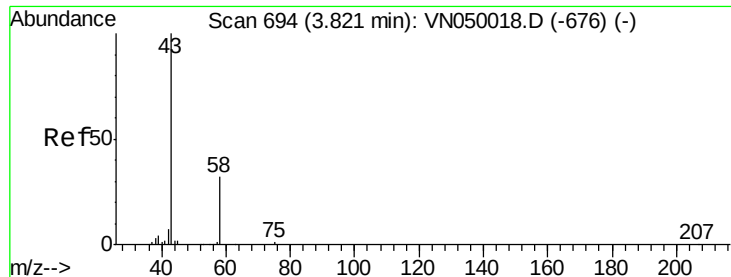


#13

Acrolein
 Concen: 0.22 ug/l
 RT: 3.62 min Scan# 631
 Delta R.T. 0.01 min
 Lab File: VN050265.D
 Acq: 2 Aug 2018 15:44

Tgt Ion: 56 Resp: 122
 Ion Ratio Lower Upper
 56 100
 55 0.0 55.8 83.6#





#16

Acetone

Concen: 12.39 ug/l

RT: 3.83 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN050265.D

Acq: 2 Aug 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

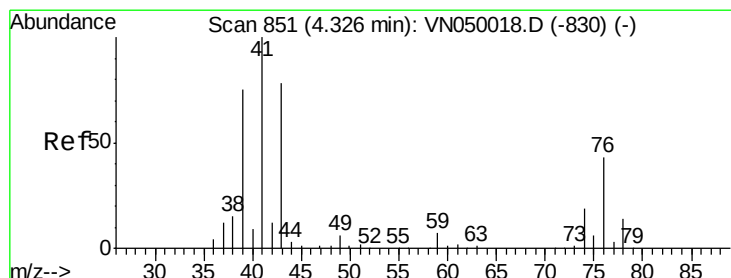
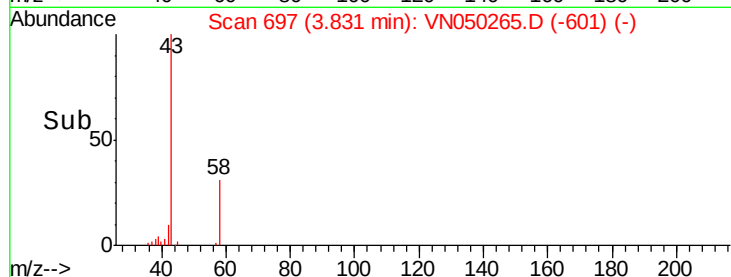
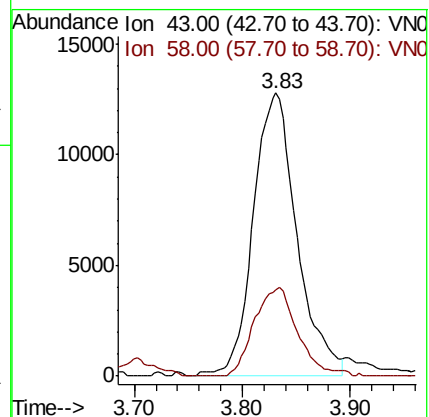
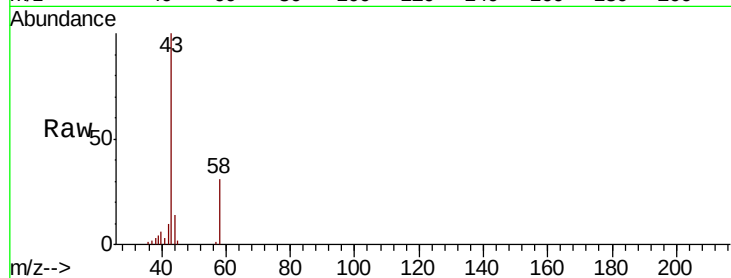
PB111674ZHE#03

Tot Ion: 43 Resp: 35950

Ion Ratio Lower Upper

43 100

58 30.6 25.8 38.8



#18

Methyl Acetate

Concen: 0.61 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.00 min

Lab File: VN050265.D

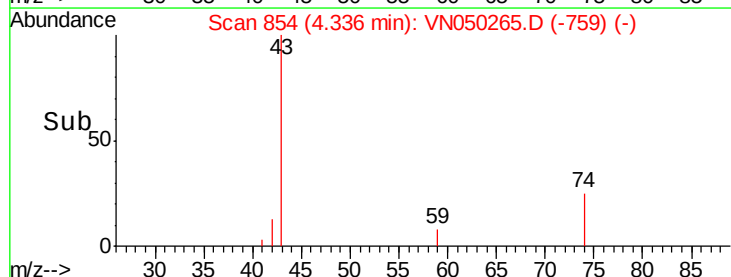
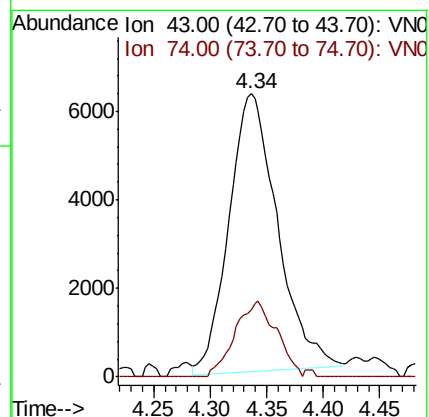
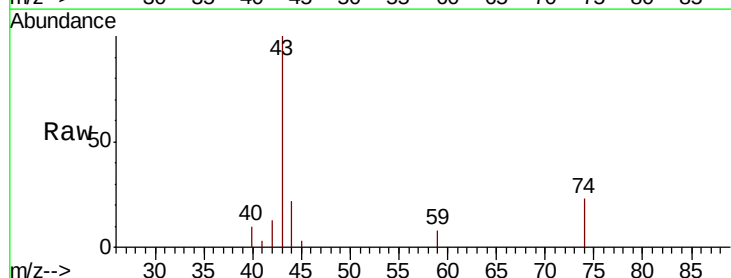
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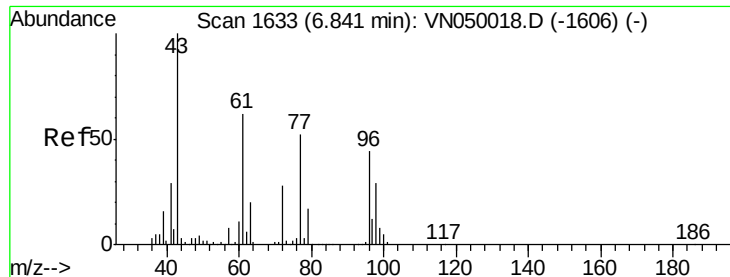
Tgt Ion: 43 Resp: 18764

Ion Ratio Lower Upper

43 100

74 23.3 19.2 28.8

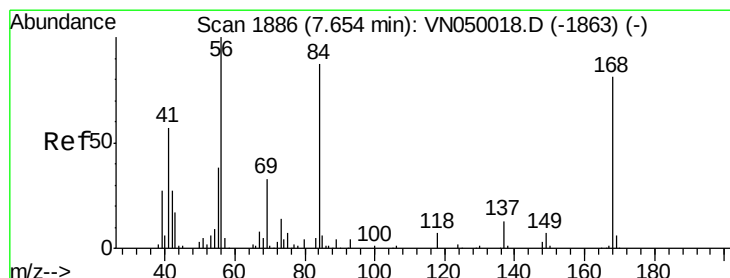
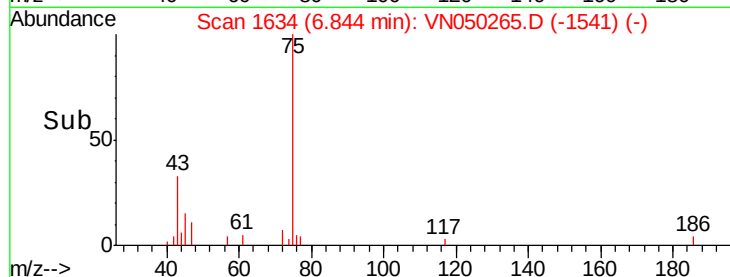
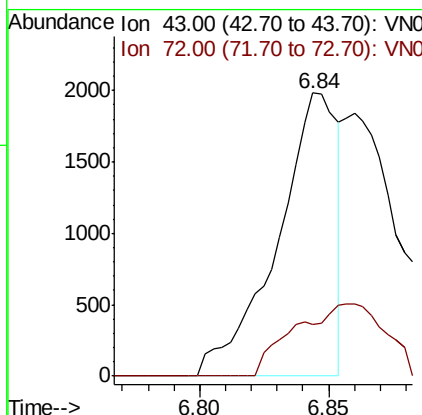
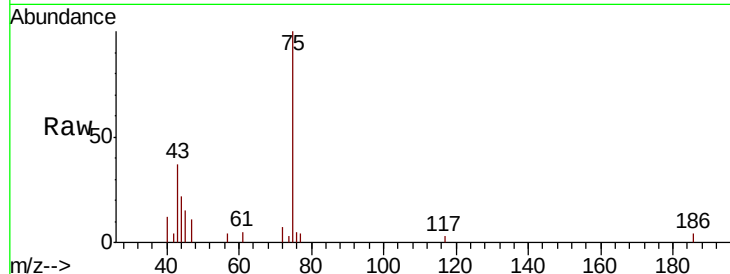




#25
2-Butanone
Concen: 0.91 ug/l
RT: 6.84 min Scan# 1634
Delta R.T. 0.00 min
Lab File: VN050265.D
Acq: 2 Aug 2018 15:44

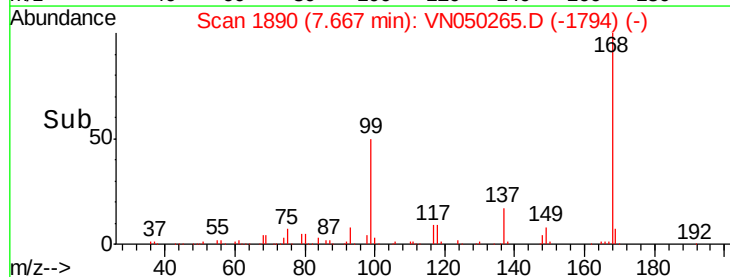
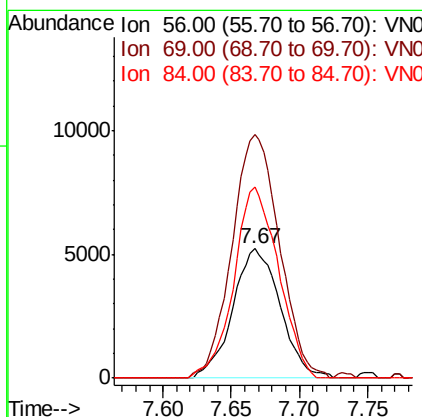
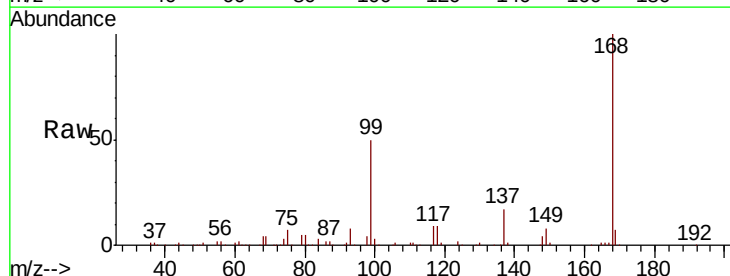
Instrument :
MSVOA_N
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PB111674ZHE#03

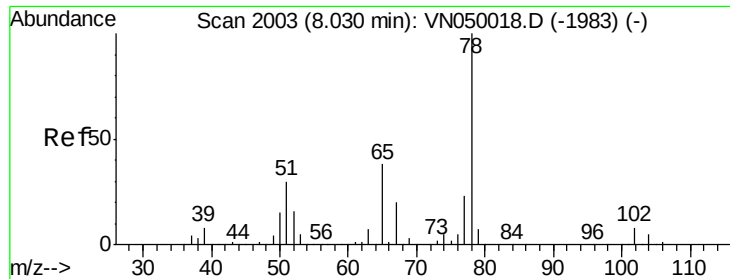
Tot Ion: 43 Resp: 3198
Ion Ratio Lower Upper
43 100
72 18.4 21.5 32.3#



#31
Cyclohexane
Concen: 0.93 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN050265.D
Acq: 2 Aug 2018 15:44

Tgt Ion: 56 Resp: 12667
Ion Ratio Lower Upper
56 100
69 188.4 26.2 39.4#
84 148.2 67.4 101.0#

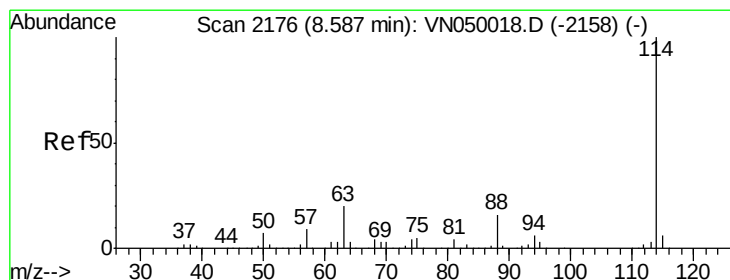
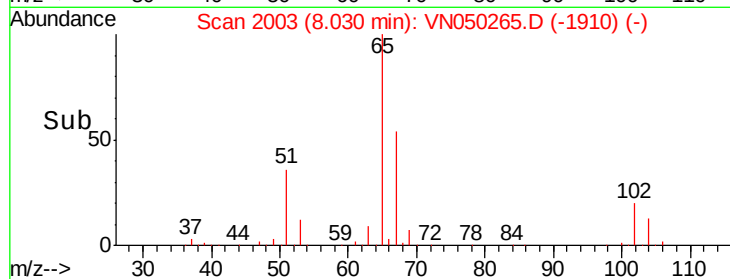
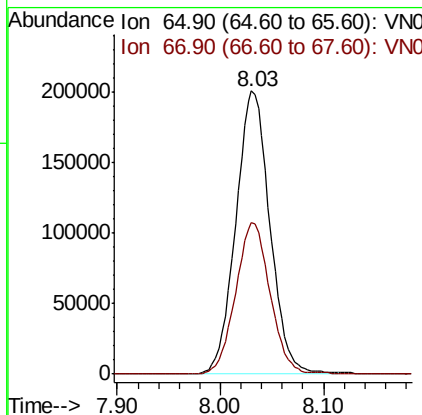
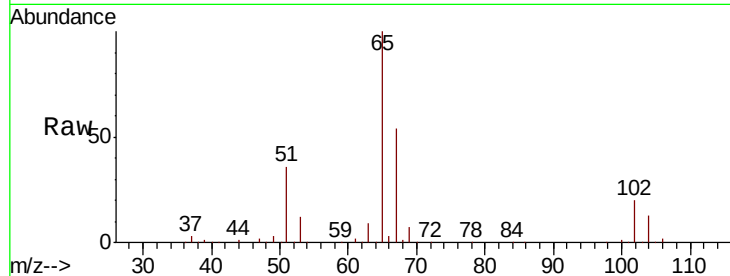




#33
 1,2-Dichloroethane-d4
 Concen: 50.05 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050265.D
 Acq: 2 Aug 2018 15:44

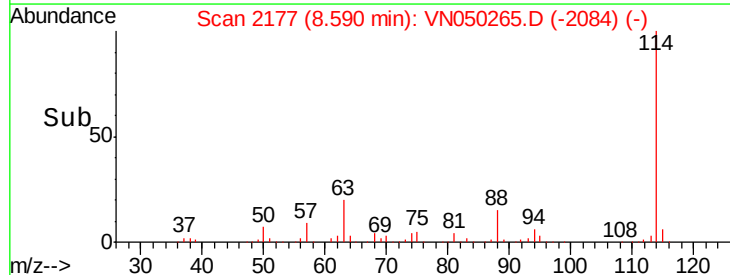
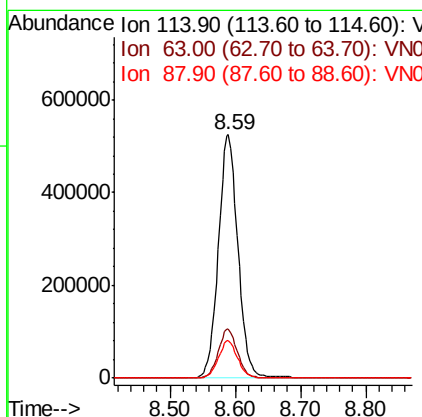
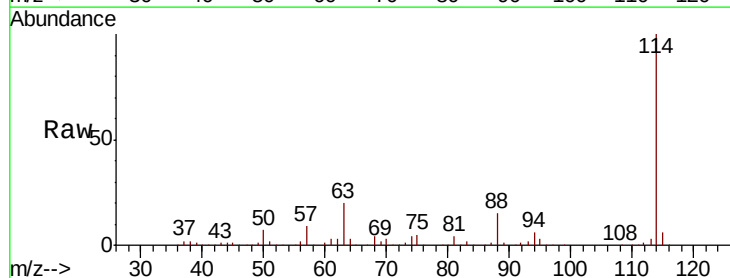
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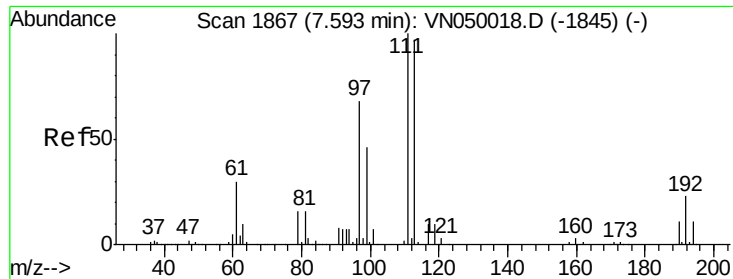
Tot Ion: 65 Resp: 462297
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050265.D
 Acq: 2 Aug 2018 15:44

Tgt Ion: 114 Resp: 1093667
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 40.0
 88 15.4 0.0 31.2

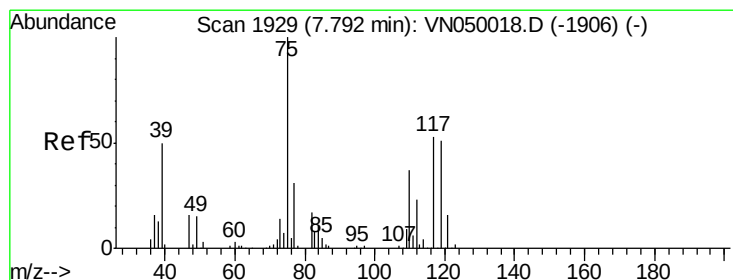
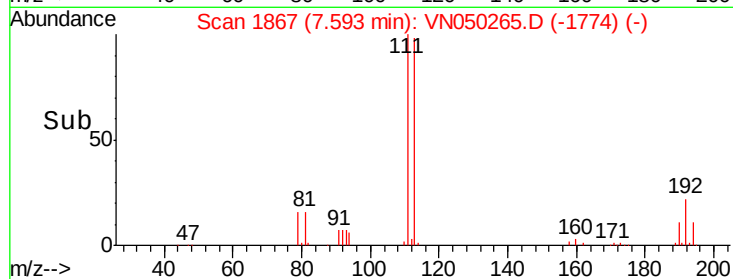
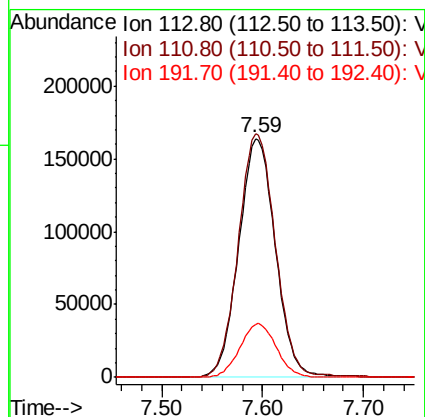
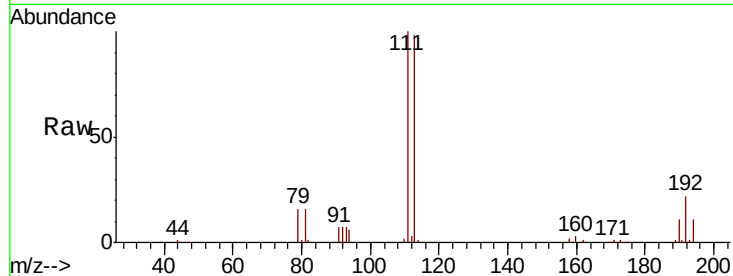




#35
 Dibromofluoromethane
 Concen: 46.22 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050265.D
 Acq: 2 Aug 2018 15:44

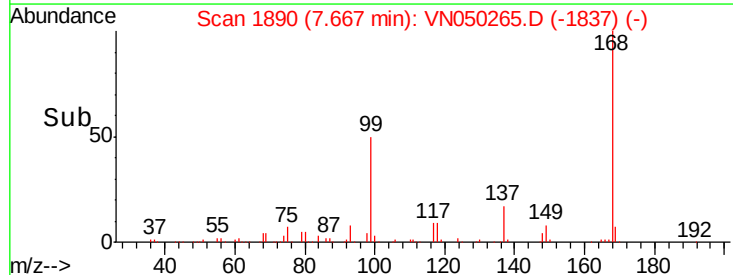
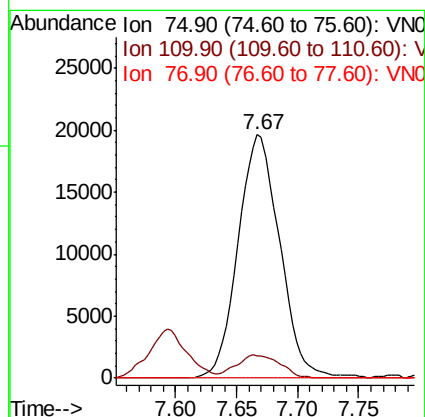
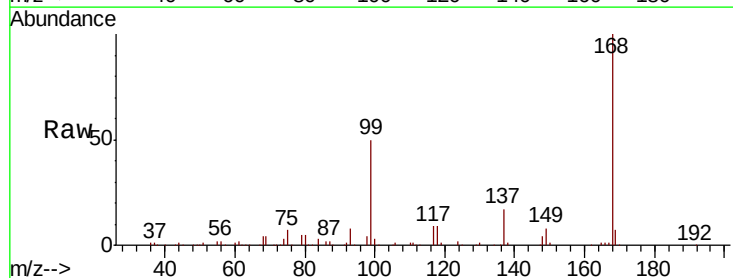
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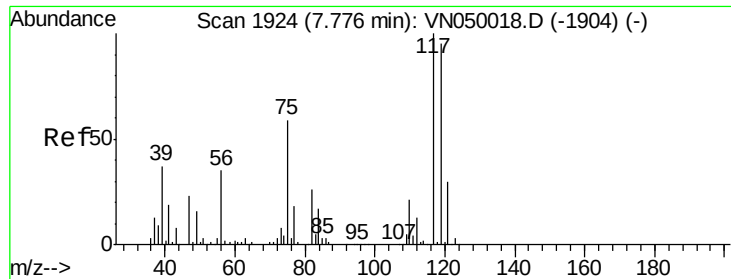
Tot Ion:113 Resp: 412756
 Ion Ratio Lower Upper
 113 100
 111 103.3 80.7 121.1
 192 22.4 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.76 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050265.D
 Acq: 2 Aug 2018 15:44

Tgt Ion: 75 Resp: 46373
 Ion Ratio Lower Upper
 75 100
 110 10.1 18.4 55.2#
 77 0.0 25.3 37.9#

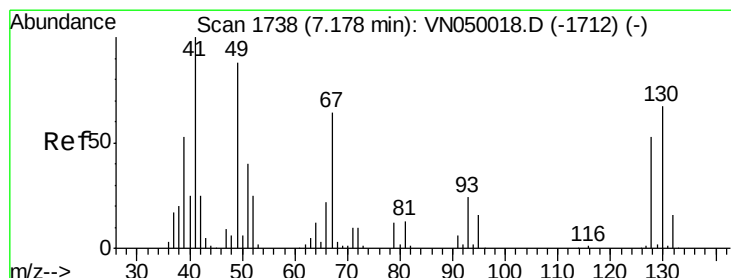
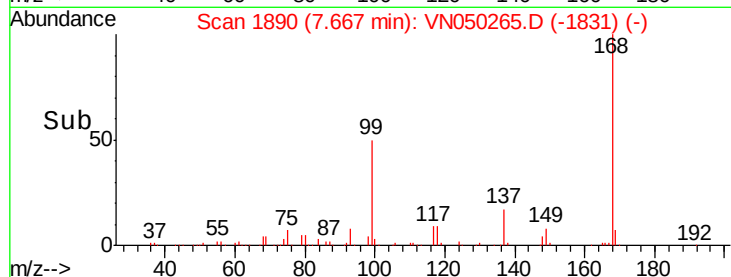
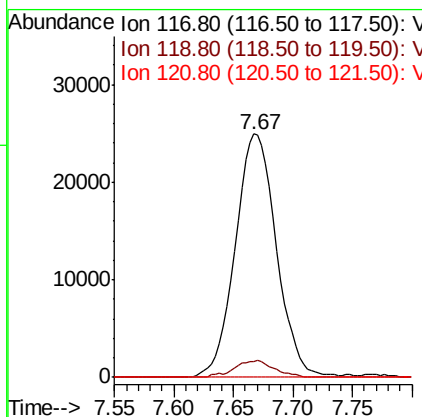
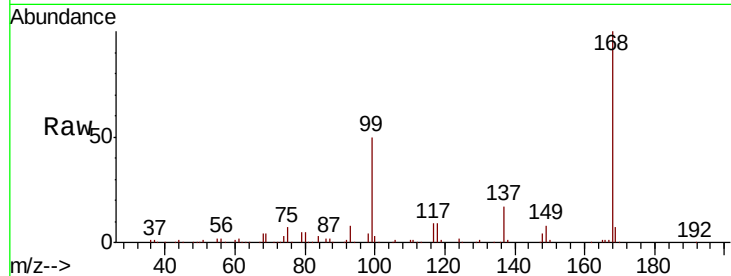




#38
Carbon Tetrachloride
Concen: 4.56 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN050265.D
Acq: 2 Aug 2018 15:44

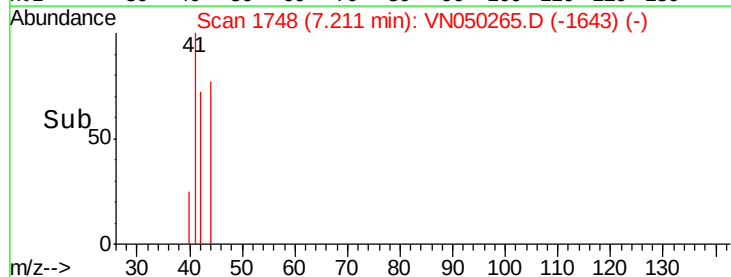
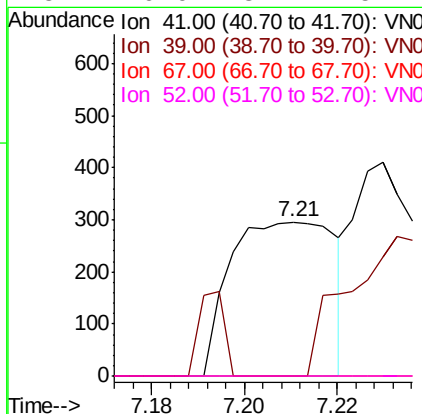
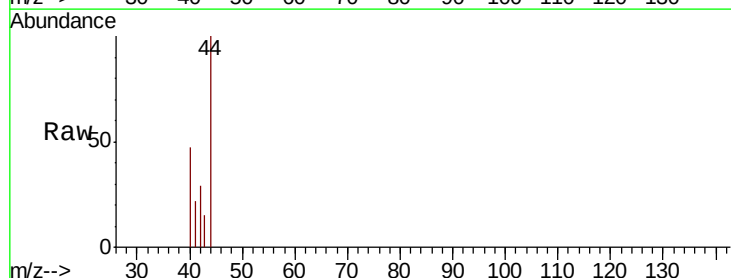
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PB111674ZHE#03

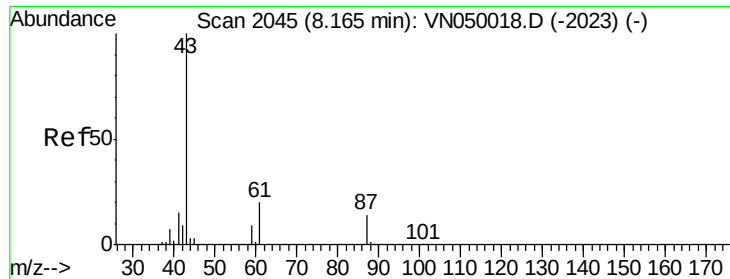
Tot Ion:117 Resp: 59653
Ion Ratio Lower Upper
117 100
119 6.7 77.4 116.0#
121 0.0 23.9 35.9#



#41
Methacrylonitrile
Concen: 2.85 ug/l
RT: 7.21 min Scan# 1748
Delta R.T. 0.04 min
Lab File: VN050265.D
Acq: 2 Aug 2018 15:44

Tgt Ion: 41 Resp: 463
Ion Ratio Lower Upper
41 100
39 13.2 55.8 83.6#
67 0.0 84.3 126.5#
52 0.0 34.2 51.2#





#43

Isopropyl Acetate

Concen: 22.46 ug/l

RT: 8.17 min Scan# 2047

Delta R.T. 0.00 min

Lab File: VN050265.D

Acq: 2 Aug 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

PB111674ZHE#03

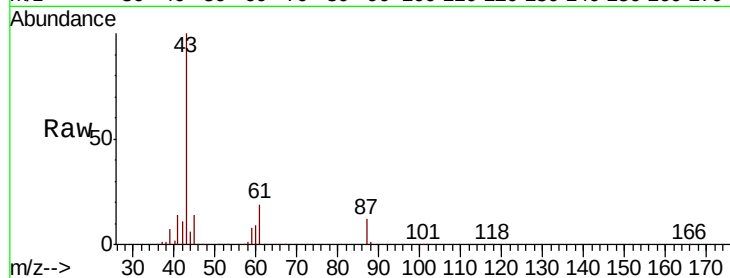
Tot Ion: 43 Resp: 373726

Ion Ratio Lower Upper

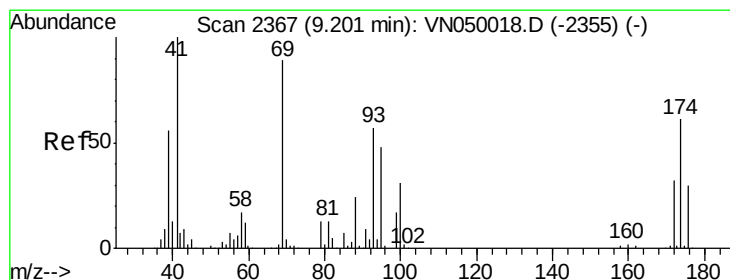
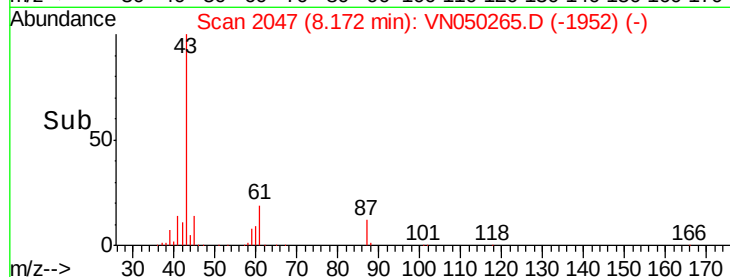
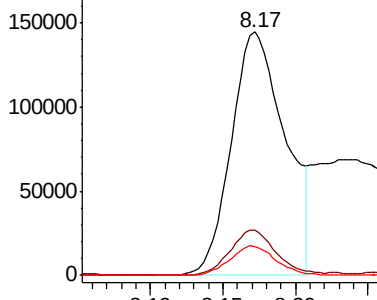
43 100

61 16.0 15.8 23.6

87 10.4 10.3 15.5



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



#48

Methyl methacrylate

Concen: 1.26 ug/l

RT: 9.18 min Scan# 2362

Delta R.T. -0.02 min

Lab File: VN050265.D

Acq: 2 Aug 2018 15:44

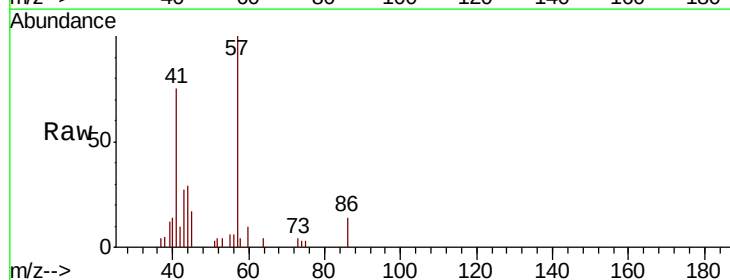
Tgt Ion: 41 Resp: 9341

Ion Ratio Lower Upper

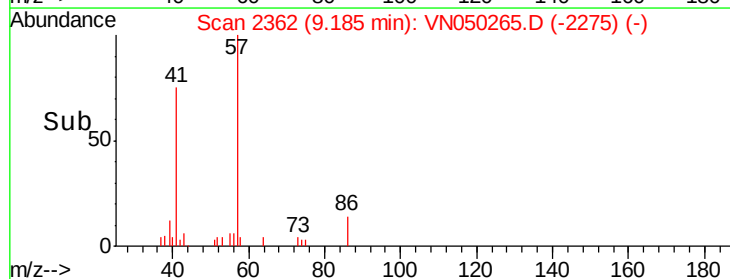
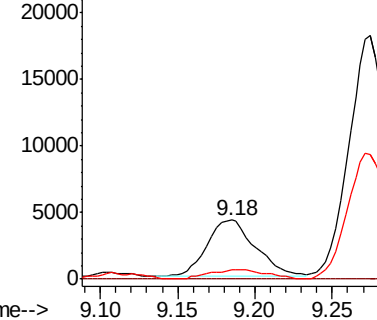
41 100

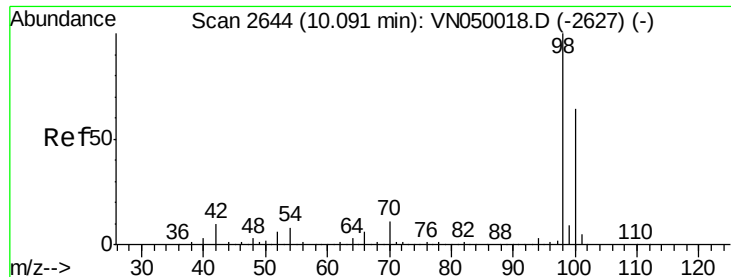
69 0.0 70.6 105.8#

39 19.6 43.9 65.9#



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





#50

Toluene-d8

Concen: 44.62 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050265.D

Acq: 2 Aug 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

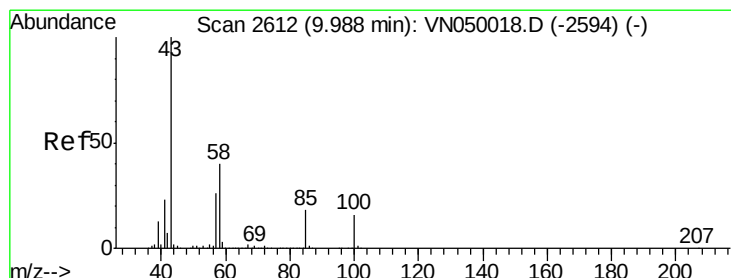
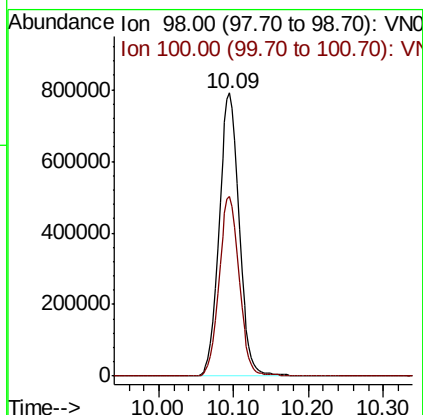
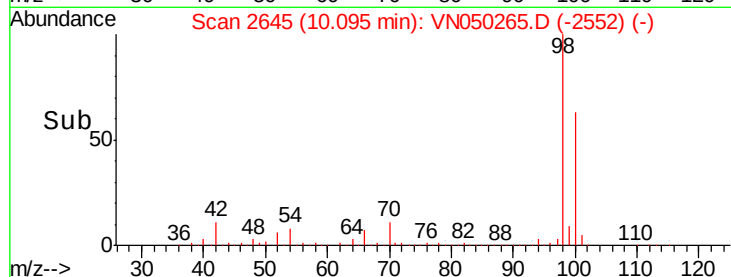
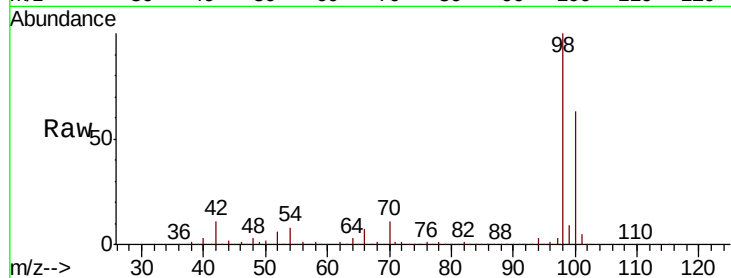
PB111674ZHE#03

Tot Ion: 98 Resp: 1464909

Ion Ratio Lower Upper

98 100

100 63.7 50.7 76.1



#51

4-Methyl-2-Pentanone

Concen: 0.41 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. -0.00 min

Lab File: VN050265.D

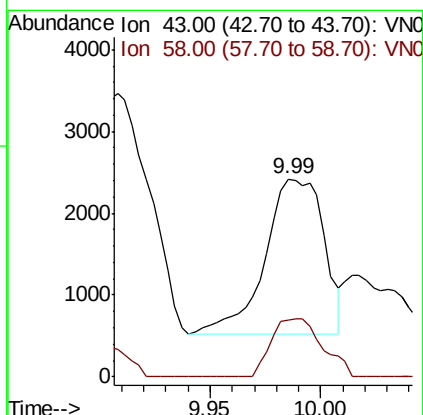
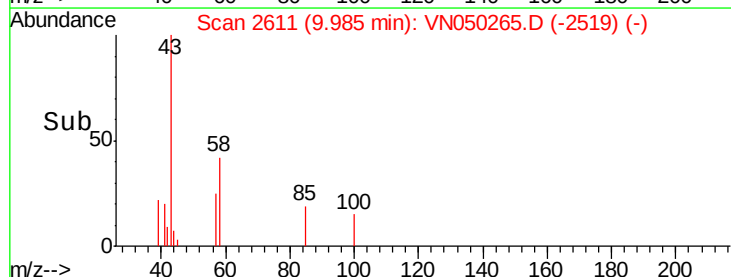
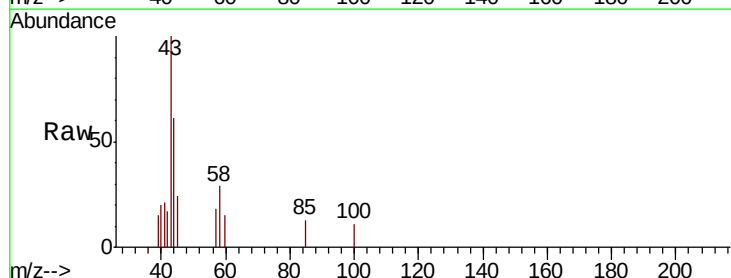
Acq: 2 Aug 2018 15:44

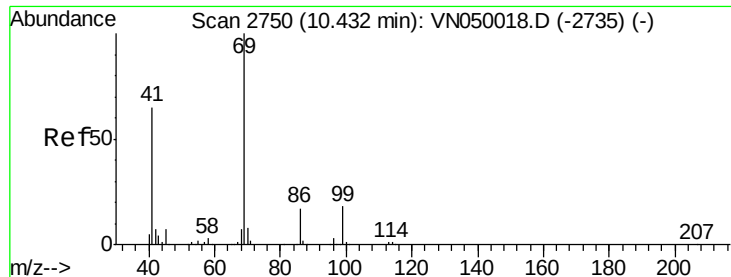
Tgt Ion: 43 Resp: 3490

Ion Ratio Lower Upper

43 100

58 32.9 31.9 47.9





#56

Ethyl methacrylate

Concen: 2.04 ug/l

RT: 10.31 min Scan# 2712

Delta R.T. -0.12 min

Lab File: VN050265.D

Acq: 2 Aug 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

PB111674ZHE#03

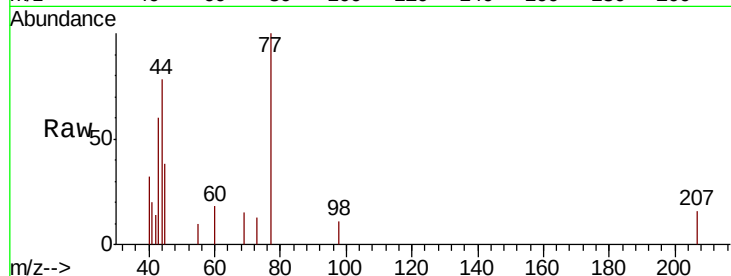
Tot Ion: 69 Resp: 129

Ion Ratio Lower Upper

69 100

41 0.0 51.0 76.4#

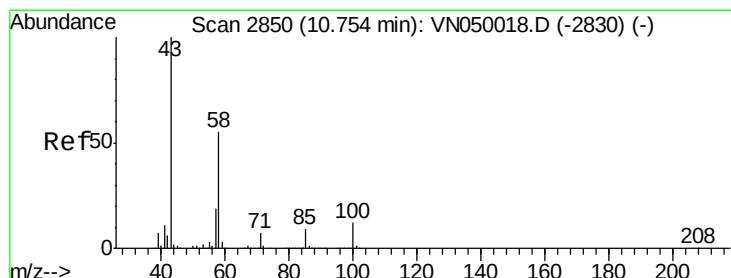
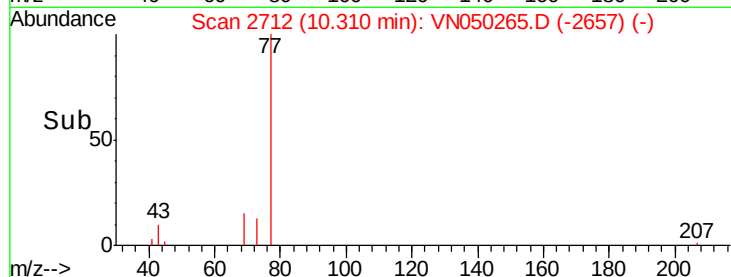
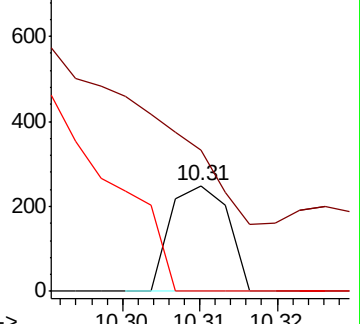
39 0.0 26.6 40.0#



Abundance Ion 69.00 (68.70 to 69.70): VN050018.D (-2735) (-)

Ion 41.00 (40.70 to 41.70): VN050018.D (-2735) (-)

Ion 39.00 (38.70 to 39.70): VN050018.D (-2735) (-)



#59

2-Hexanone

Concen: 8.80 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050265.D

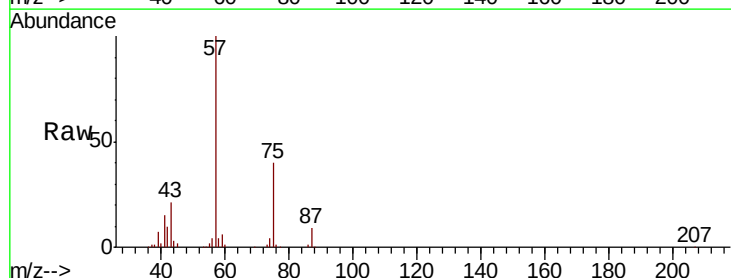
Acq: 2 Aug 2018 15:44

Tgt Ion: 43 Resp: 22945

Ion Ratio Lower Upper

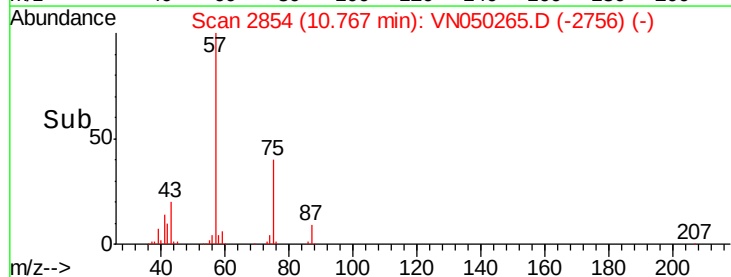
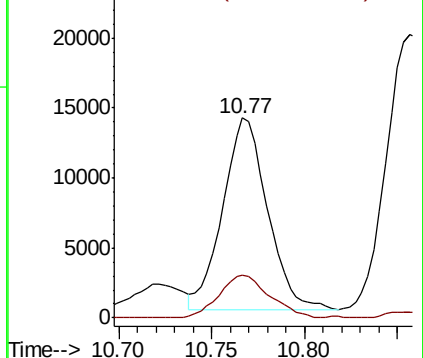
43 100

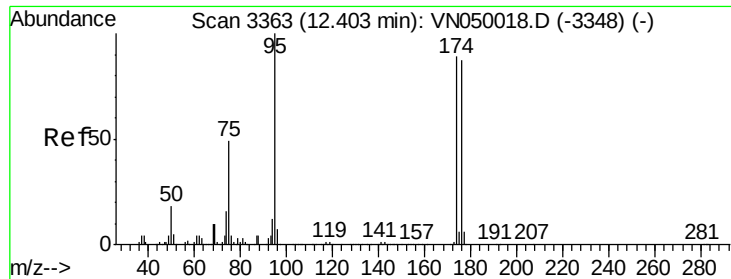
58 25.2 27.6 82.7#



Abundance Ion 43.00 (42.70 to 43.70): VN050018.D (-2830) (-)

Ion 58.00 (57.70 to 58.70): VN050018.D (-2830) (-)





#62

4-Bromofluorobenzene

Concen: 35.05 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050265.D

Acq: 2 Aug 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

PB111674ZHE#03

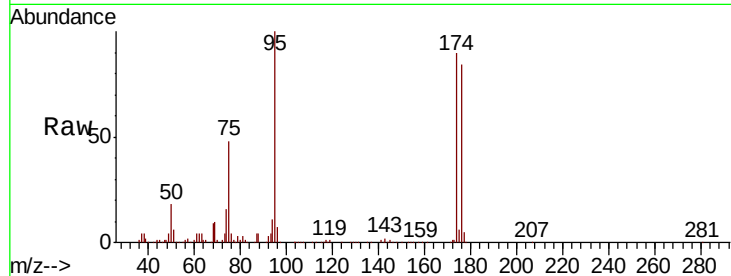
Tot Ion: 95 Resp: 378900

Ion Ratio Lower Upper

95 100

174 91.8 0.0 178.2

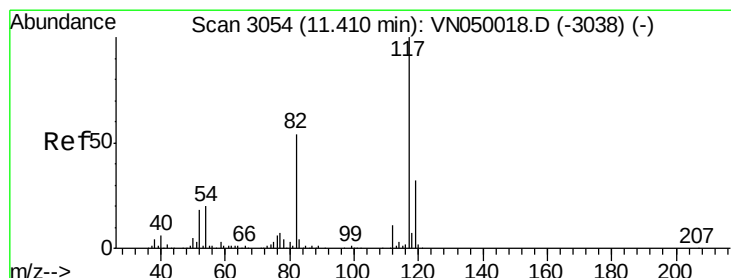
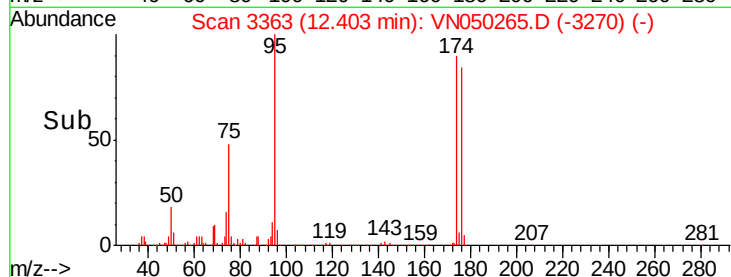
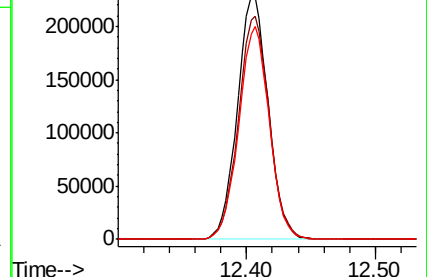
176 86.7 0.0 173.4



Abundance Ion 94.90 (94.60 to 95.60): VN050018.D (-3348) (-)

Ion 173.80 (173.50 to 174.50): VN050018.D (-3348) (-)

Ion 175.80 (175.50 to 176.50): VN050018.D (-3348) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN050265.D

Acq: 2 Aug 2018 15:44

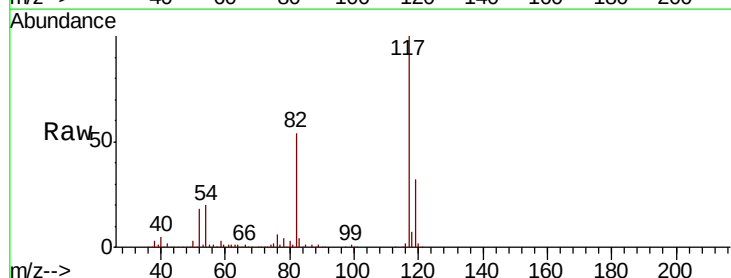
Tgt Ion: 117 Resp: 900035

Ion Ratio Lower Upper

117 100

82 53.6 43.7 65.5

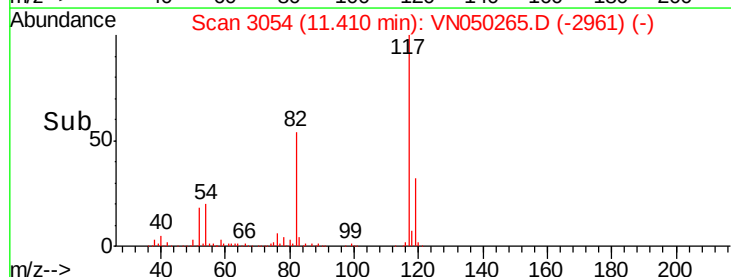
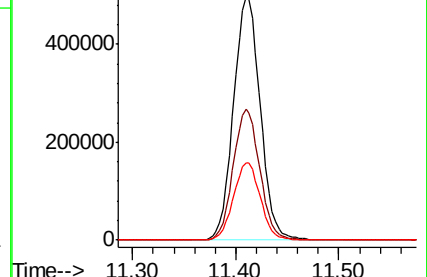
119 31.8 26.1 39.1

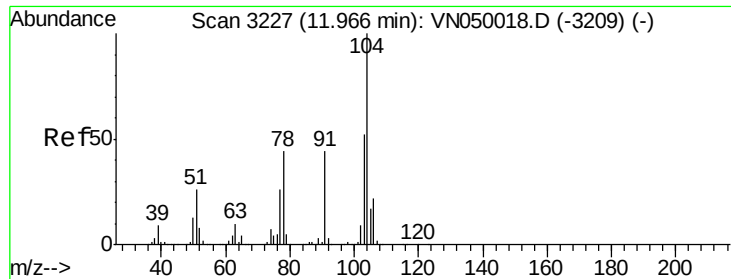


Abundance Ion 116.90 (116.60 to 117.60): VN050018.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN050018.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN050018.D (-3038) (-)





#70

Stvrene

Concen: 0.94 ug/l

RT: 11.96 min Scan# 3226

Delta R.T. -0.00 min

Lab File: VN050265.D

Acq: 2 Aug 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

PB111674ZHE#03

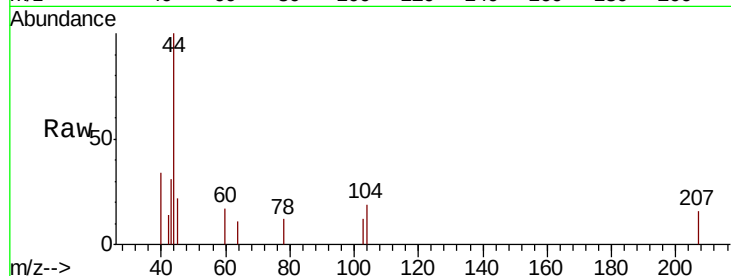
Tot Ion:104 Resp: 424

Ion Ratio Lower Upper

104 100

78 24.3 39.3 58.9#

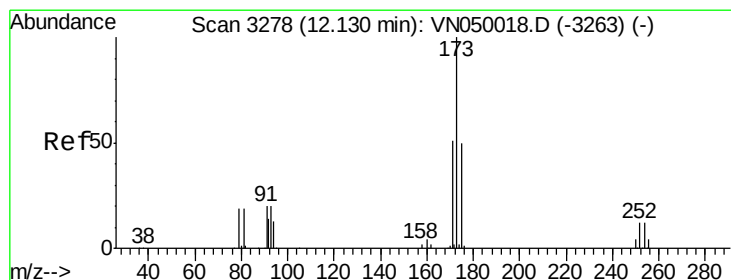
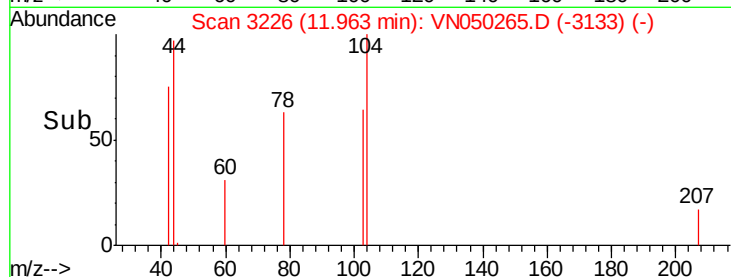
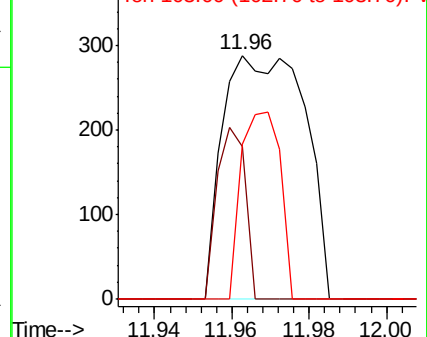
103 36.6 45.0 67.6#



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: 0.46 ug/l

RT: 12.40 min Scan# 3362

Delta R.T. 0.27 min

Lab File: VN050265.D

Acq: 2 Aug 2018 15:44

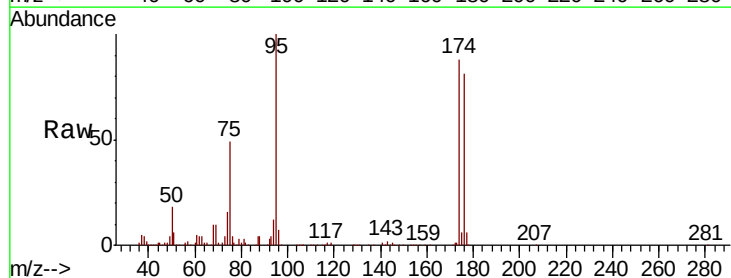
Tgt Ion:173 Resp: 2952

Ion Ratio Lower Upper

173 100

175 717.0 24.1 72.2#

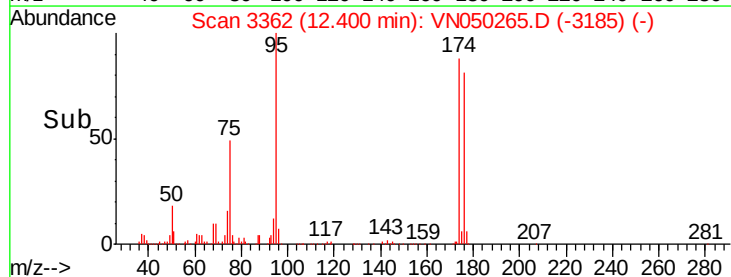
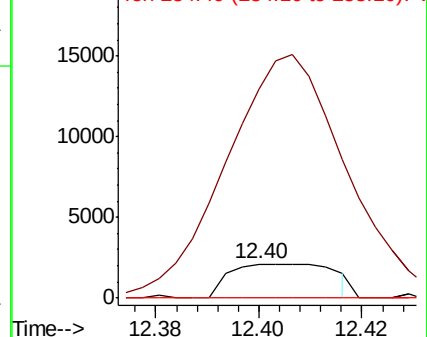
254 0.0 0.2 0.2#

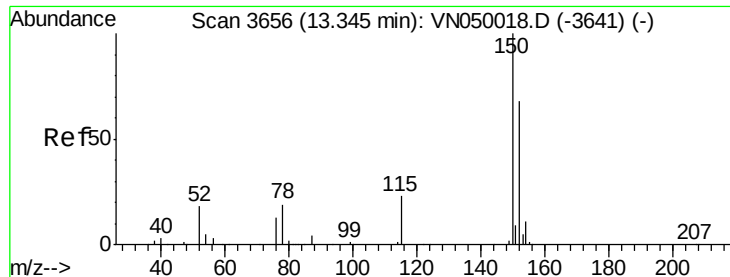


Abundance Ion 172.70 (172.40 to 173.40): V

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# 3656

Delta R.T. 0.00 min

Lab File: VN050265.D

Acq: 2 Aug 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

PB111674ZHE#03

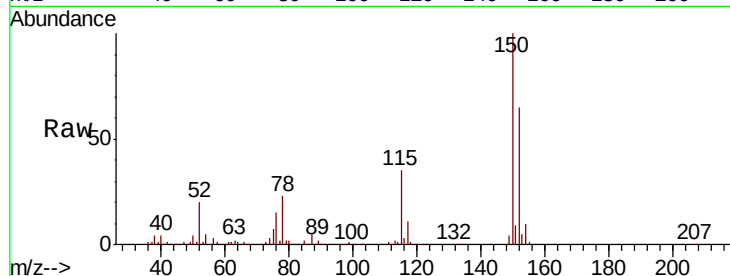
Tot Ion:152 Resp: 290529

Ion Ratio Lower Upper

152 100

115 55.2 27.8 83.3

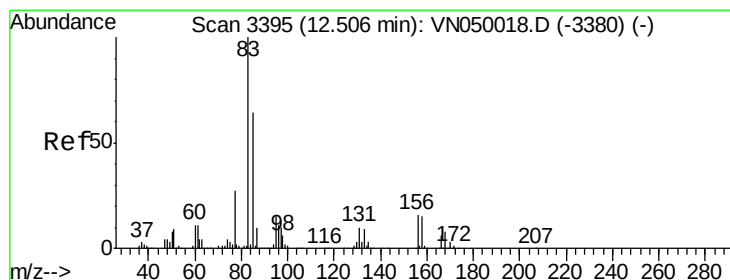
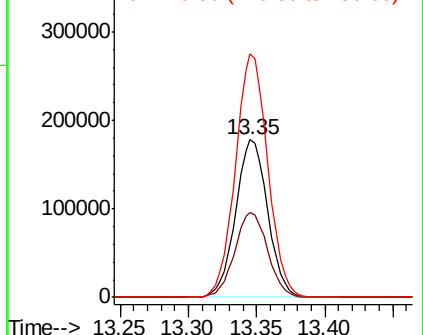
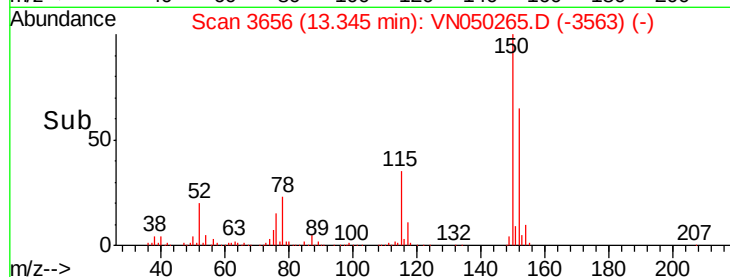
150 155.5 0.0 348.6



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: 12.41 min Scan# 3364

Delta R.T. -0.10 min

Lab File: VN050265.D

Acq: 2 Aug 2018 15:44

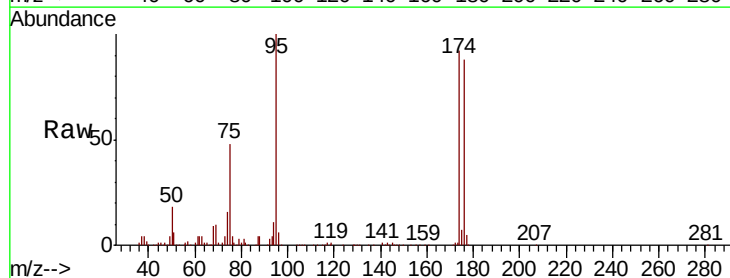
Tgt Ion: 83 Resp: 224

Ion Ratio Lower Upper

83 100

131 151.8 5.1 15.3#

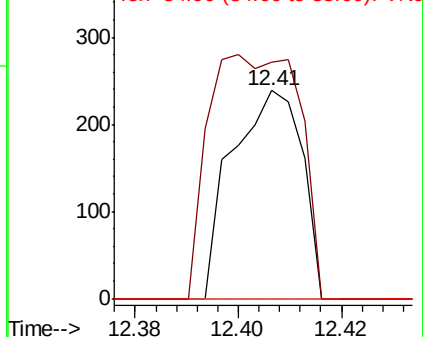
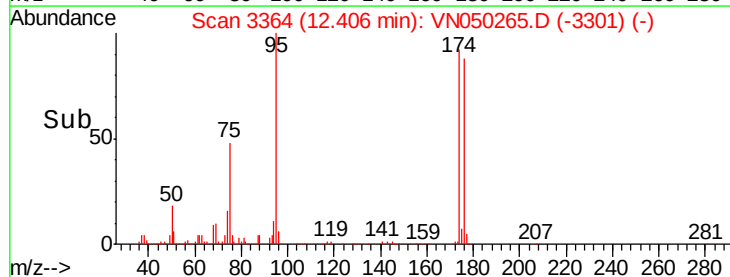
85 0.0 32.3 96.8#

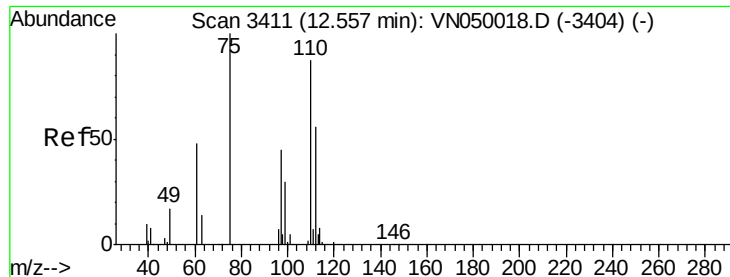


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 34.11 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050265.D

Acq: 2 Aug 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

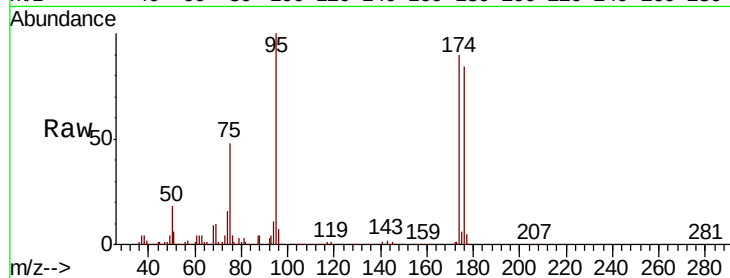
PB111674ZHE#03

Tot Ion: 75 Resp: 184191

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN050018.D (-3404) (-)

Ion 77.00 (76.70 to 77.70): VN050018.D (-3404) (-)

12.40

120000

100000

80000

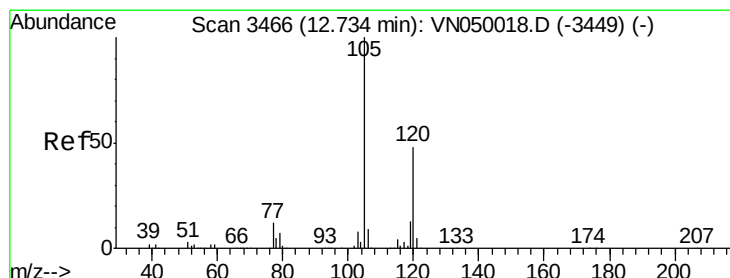
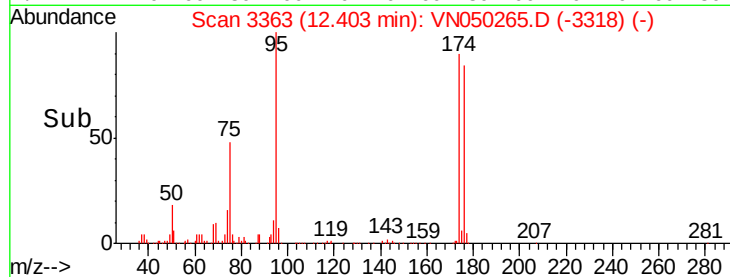
60000

40000

20000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.25 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050265.D

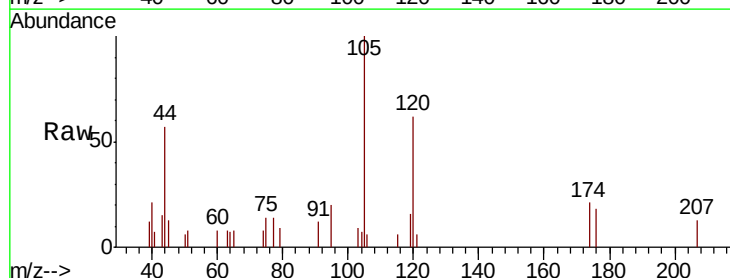
Acq: 2 Aug 2018 15:44

Tgt Ion: 105 Resp: 4369

Ion Ratio Lower Upper

105 100

120 47.6 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN050018.D (-3449) (-)

Ion 120.00 (119.70 to 120.70): VN050018.D (-3449) (-)

12.73

3000

2500

2000

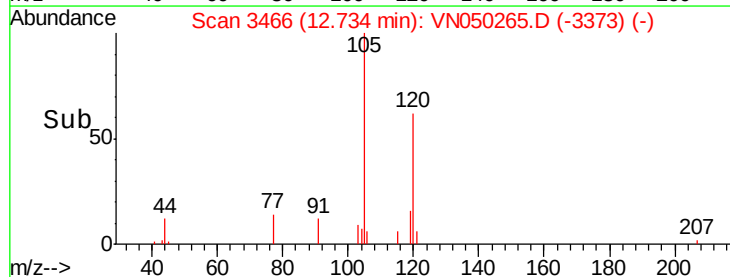
1500

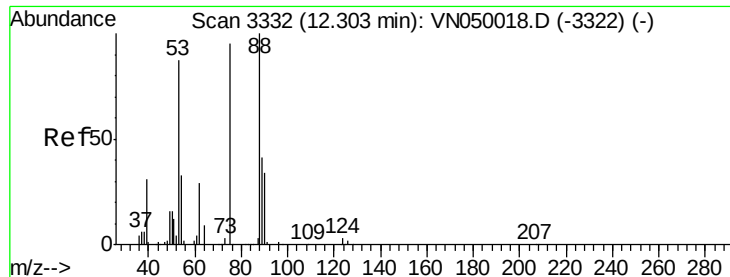
1000

500

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 108.20 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050265.D

Acq: 2 Aug 2018 15:44

Instrument :

MSVOA_N

ClientSampleId :

PB111674ZHE#03

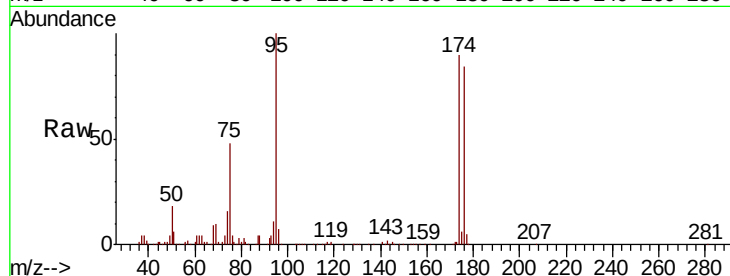
Tot Ion: 75 Resp: 184191

Ion Ratio Lower Upper

75 100

53 0.4 73.5 110.3#

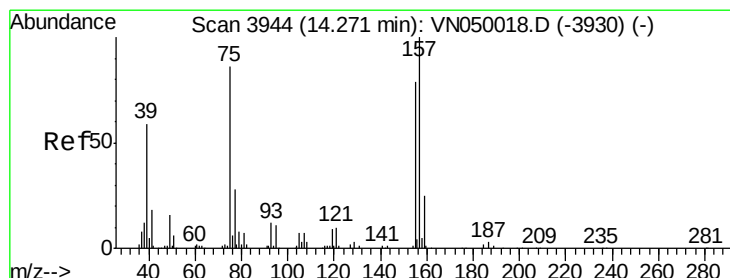
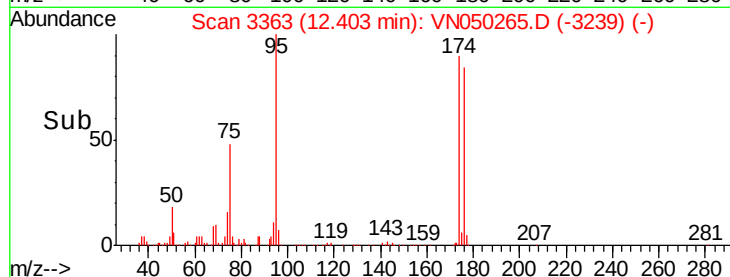
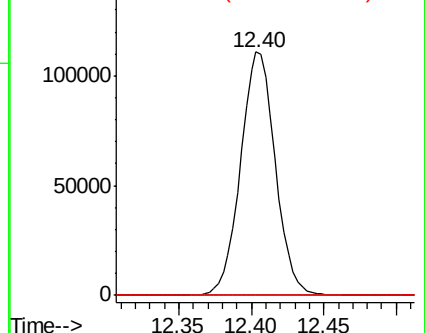
89 0.0 36.0 54.0#



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# 3942

Delta R.T. -0.01 min

Lab File: VN050265.D

Acq: 2 Aug 2018 15:44

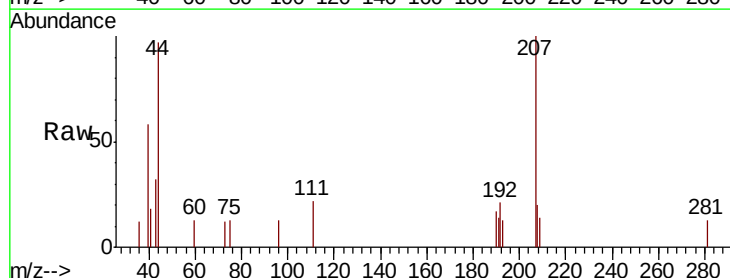
Tgt Ion: 75 Resp: 61

Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

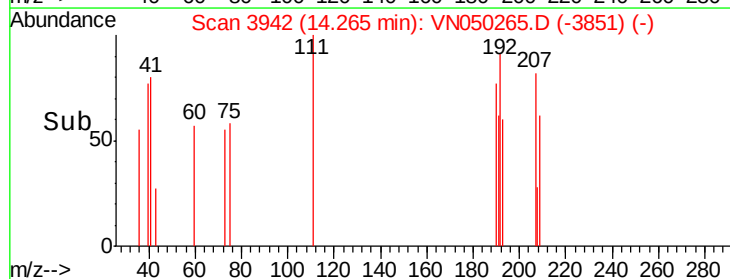
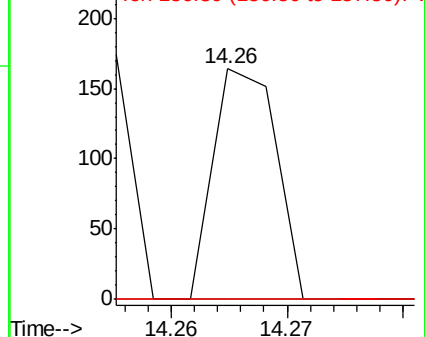
157 0.0 57.2 171.6#

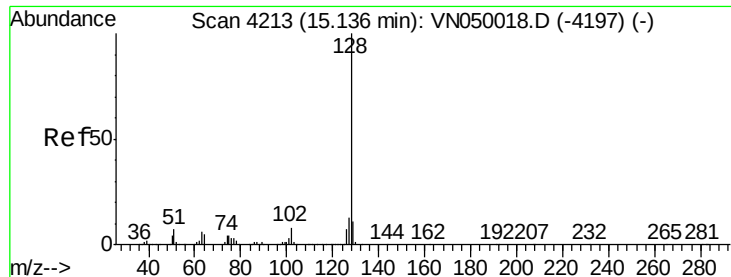


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

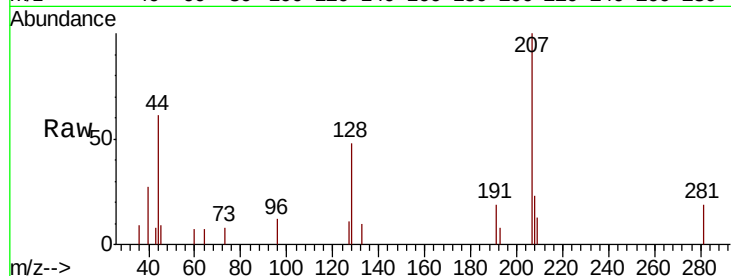




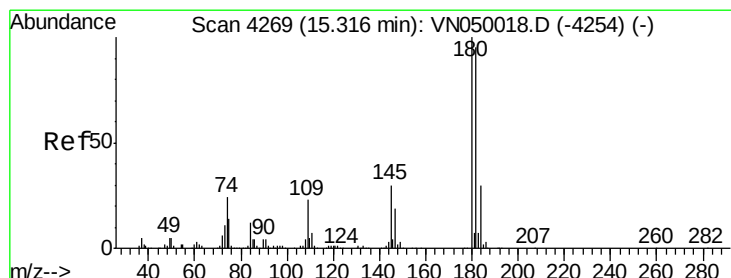
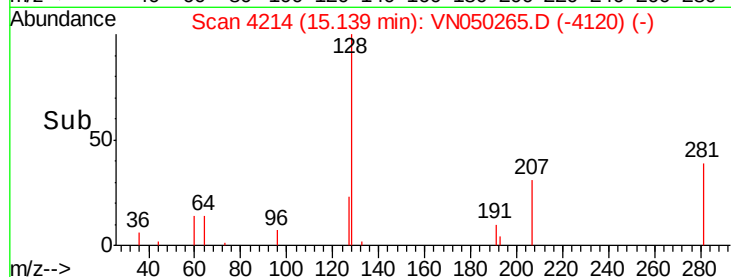
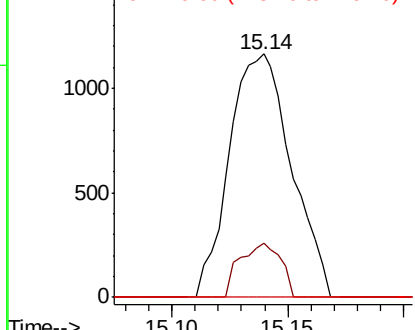
#95
Naphthalene
Concen: 4.56 ug/l
RT: 15.14 min Scan# 4214
Delta R.T. 0.00 min
Lab File: VN050265.D
Acq: 2 Aug 2018 15:44

Instrument :
MSVOA_N
ClientSampleId :
PB111674ZHE#03

Tot Ion:128 Resp: 2162
Ion Ratio Lower Upper
128 100
127 14.6 10.4 15.6
129 0.0 8.8 13.2#

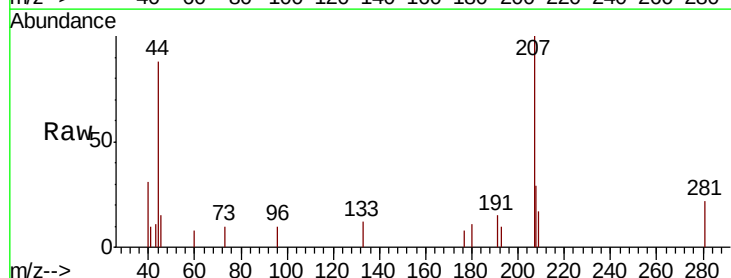


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 2.22 ug/l
RT: 15.32 min Scan# 4271
Delta R.T. 0.00 min
Lab File: VN050265.D
Acq: 2 Aug 2018 15:44

Tgt Ion:180 Resp: 110
Ion Ratio Lower Upper
180 100
182 0.0 48.1 144.4#
145 0.0 15.3 45.9#



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

