

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN073118\
 Data File : VN050215.D
 Acq On : 31 Jul 2018 15:17
 Operator : MD\SY
 Sample : PB111613ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111613ZHE#03

Quant Time: Jul 31 18:06:53 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	641930	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1078583	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	890555	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	301529	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	459259	51.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.56%	
35) Dibromofluoromethane	7.59	113	414394	47.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.12%	
50) Toluene-d8	10.09	98	1452849	44.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.74%	
62) 4-Bromofluorobenzene	12.40	95	385703	36.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	72.36%	

Target Compounds

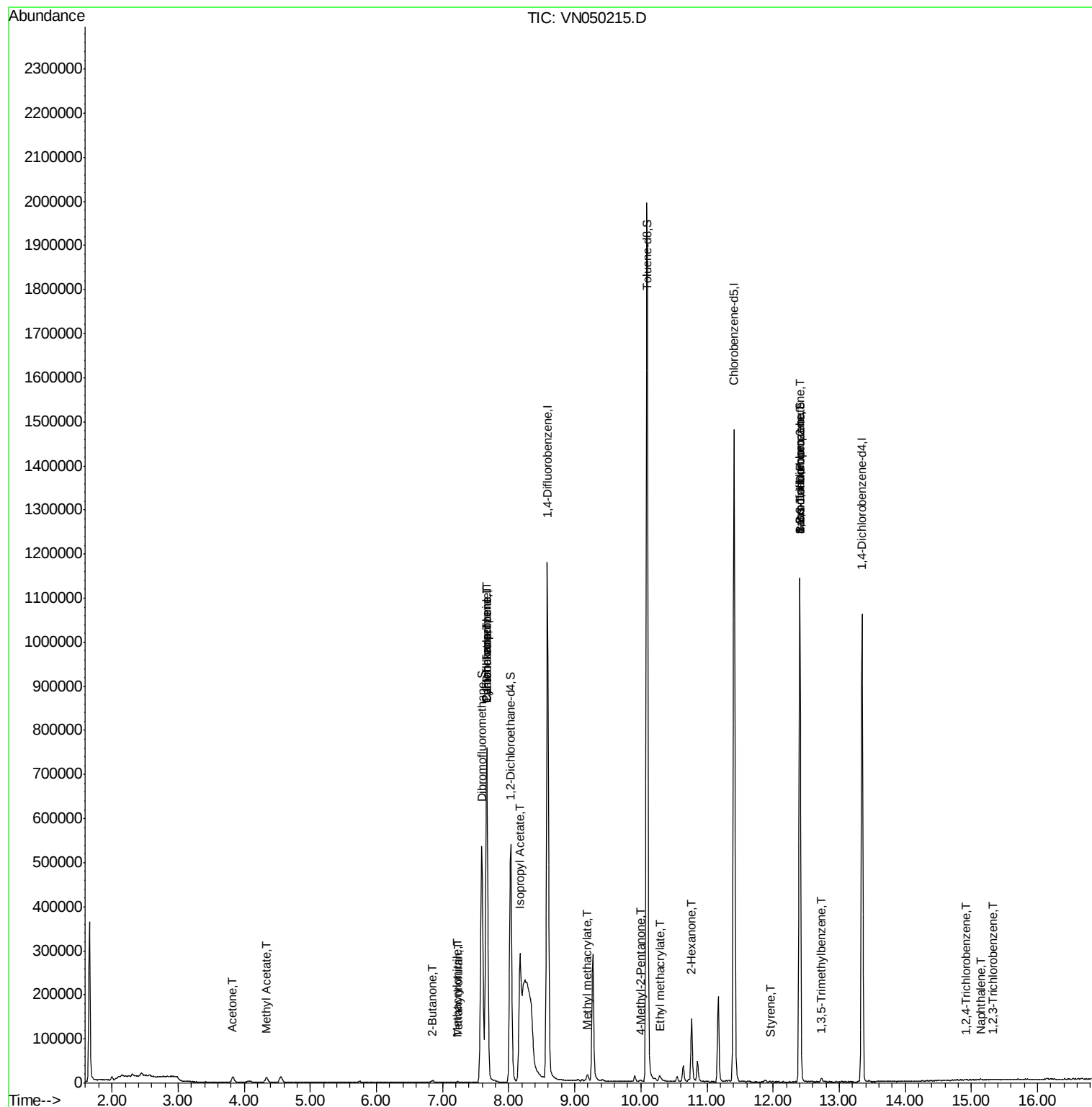
						Qvalue
5) Bromomethane	2.56	94	1054	Below Cal		95
16) Acetone	3.82	43	21467	5.94	ug/l	96
18) Methyl Acetate	4.34	43	21115	0.98	ug/l	99
25) 2-Butanone	6.86	43	4191	1.23	ug/l	95
29) Tetrahydrofuran	7.22	42	1544	0.70	ug/l #	39
31) Cyclohexane	7.66	56	12644	0.96	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	45336	3.73	ug/l #	47
38) Carbon Tetrachloride	7.67	117	59015	4.58	ug/l #	18
41) Methacrylonitrile	7.21	41	512	2.86	ug/l #	28
43) Isopropyl Acetate	8.17	43	357386	21.74	ug/l #	91
48) Methyl methacrylate	9.18	41	9395	1.29	ug/l #	22
51) 4-Methyl-2-Pentanone	9.99	43	2410	0.29	ug/l	95
56) Ethyl methacrylate	10.29	69	123	2.04	ug/l #	1
59) 2-Hexanone	10.77	43	21168	8.56	ug/l #	58
70) Styrene	11.96	104	437	0.94	ug/l #	36
71) Bromoform	12.41	173	3331	0.53	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.50	83	30	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	188863	33.70	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.74	105	4251	0.23	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	188863	106.90	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.26	75	129	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.91	180	440	3.16	ug/l #	63
95) Naphthalene	15.14	128	1596	4.52	ug/l #	84
96) 1,2,3-Trichlorobenzene	15.31	180	456	2.28	ug/l #	82

(#) = 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# 1890

Delta R.T. -0.00 min

Lab File: VN050215.D

Acq: 31 Jul 2018 15:17

Instrument :

MSVOA_N

ClientSampleId :

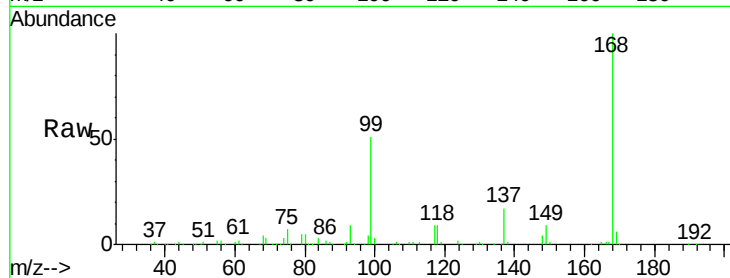
PB111613ZHE#03

Tot Ion:168 Resp: 641930

Ion Ratio Lower Upper

168 100

99 51.5 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

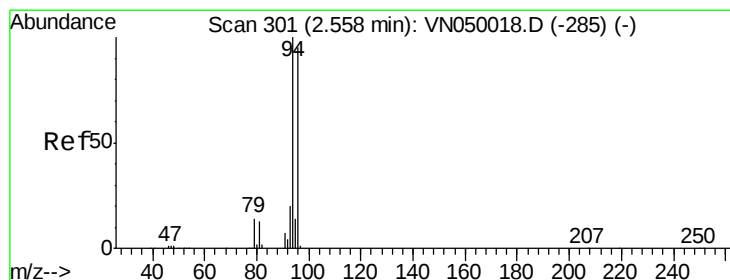
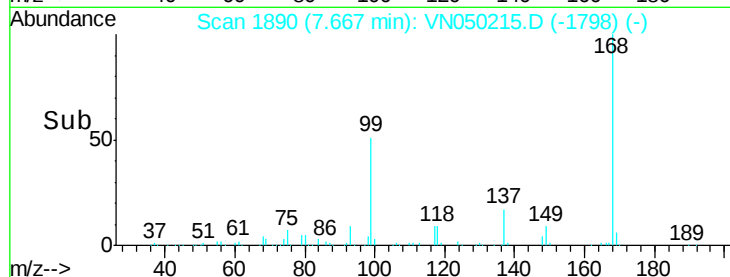
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 302

Delta R.T. 0.01 min

Lab File: VN050215.D

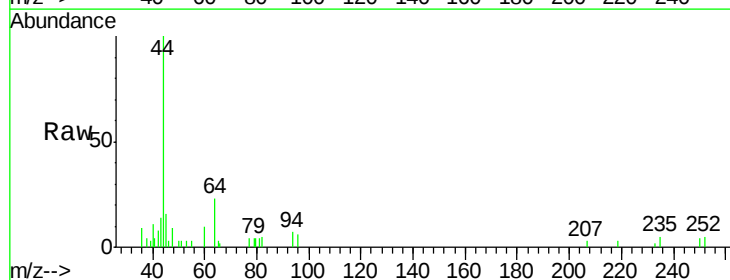
Acq: 31 Jul 2018 15:17

Tgt Ion: 94 Resp: 1054

Ion Ratio Lower Upper

94 100

96 88.9 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.56

600

500

400

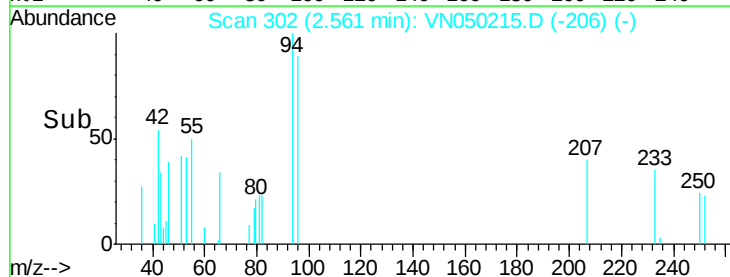
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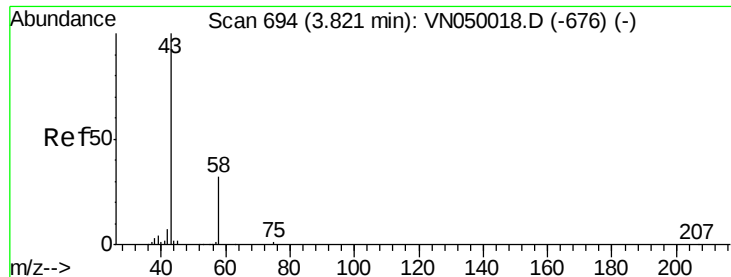
200

100

0

Time-->





#16

Acetone

Concen: 5.94 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN050215.D

Acq: 31 Jul 2018 15:17

Instrument :

MSVOA_N

ClientSampleId :

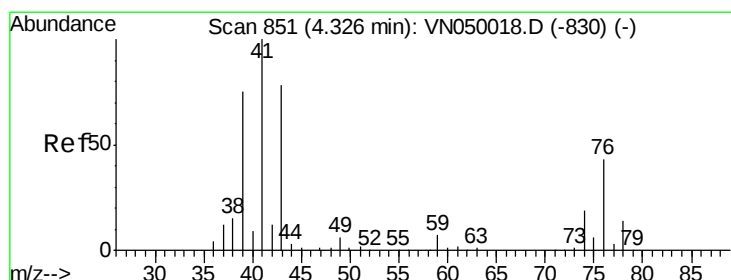
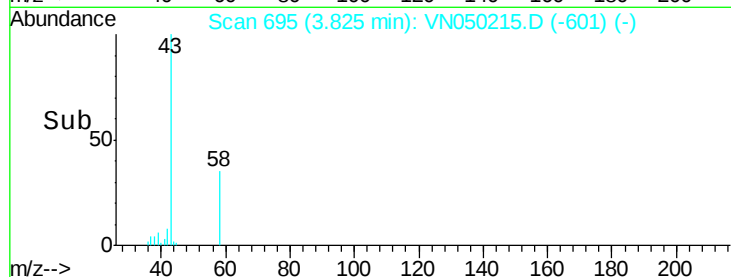
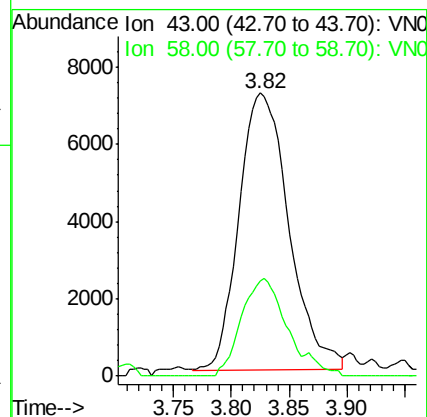
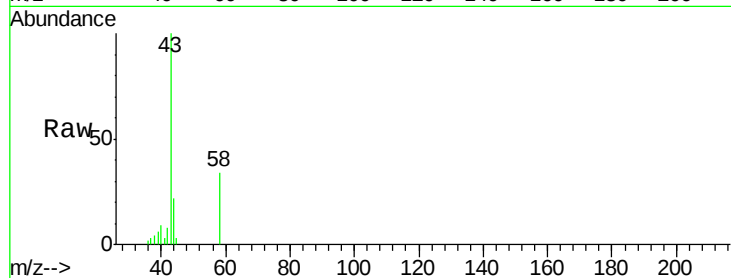
PB111613ZHE#03

Tot Ion: 43 Resp: 21467

Ion Ratio Lower Upper

43 100

58 34.5 25.8 38.8



#18

Methyl Acetate

Concen: 0.98 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.00 min

Lab File: VN050215.D

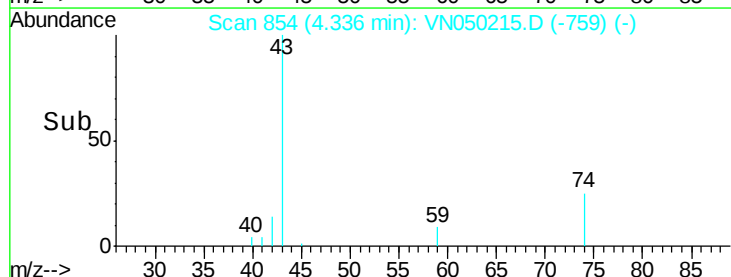
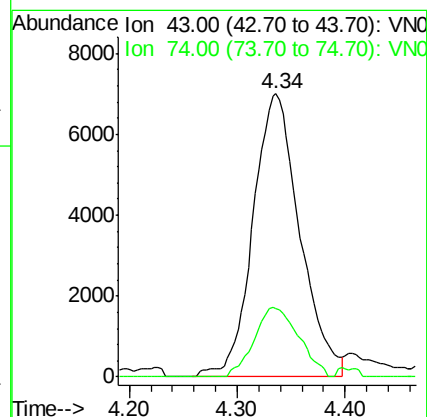
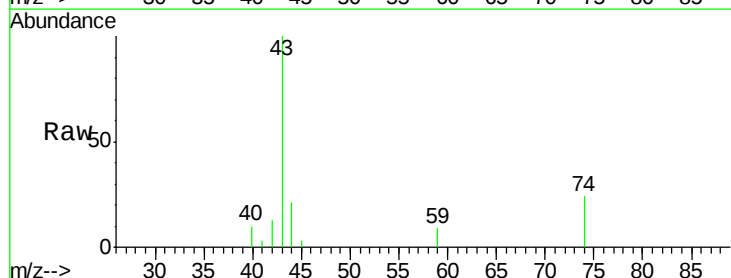
Acq: 31 Jul 2018 15:17

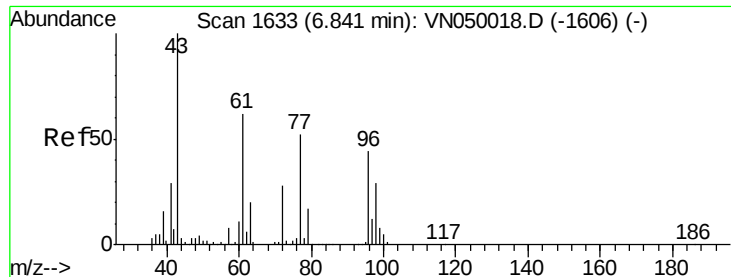
Tgt Ion: 43 Resp: 21115

Ion Ratio Lower Upper

43 100

74 23.3 19.2 28.8

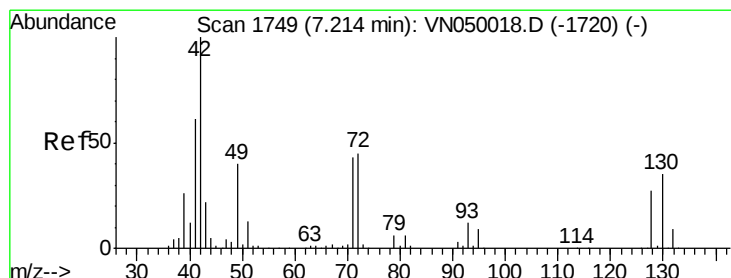
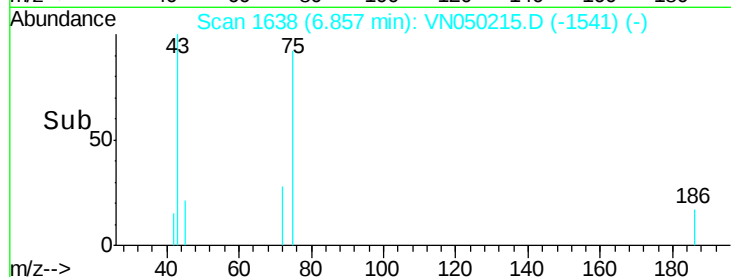
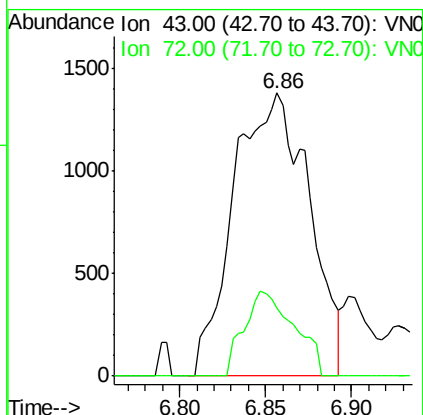
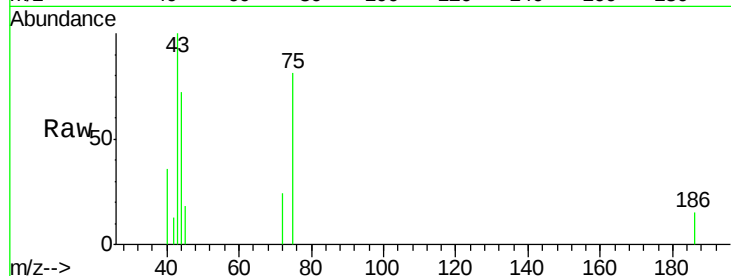




#25
 2-Butanone
 Concen: 1.23 ug/l
 RT: 6.86 min Scan# 1638
 Delta R.T. 0.01 min
 Lab File: VN050215.D
 Acq: 31 Jul 2018 15:17

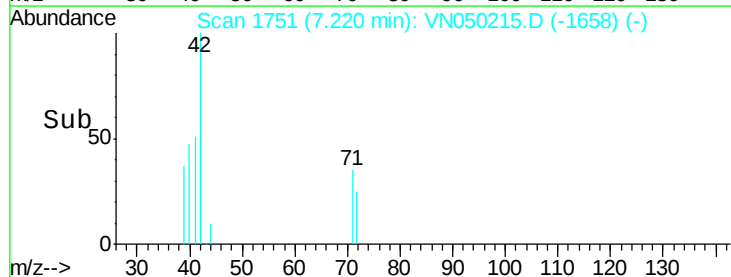
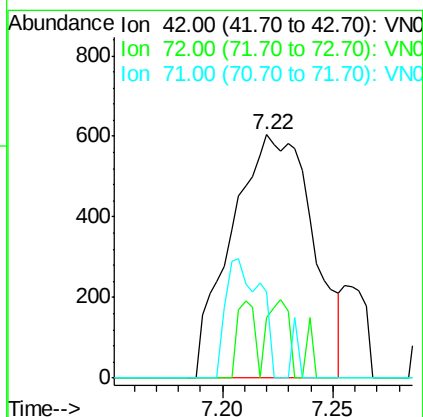
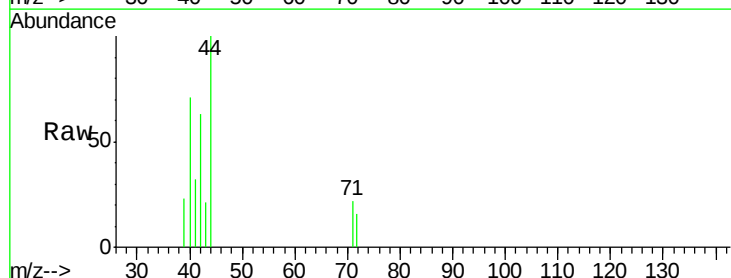
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111613ZHE#03

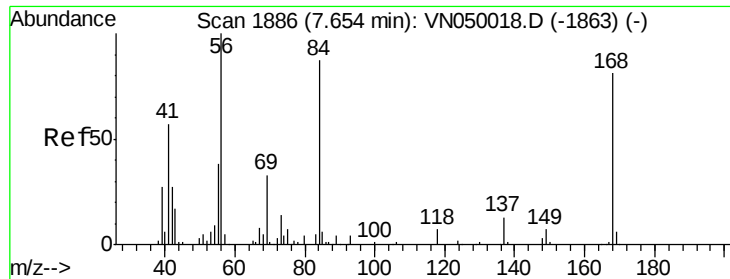
Tot Ion: 43 Resp: 4191
 Ion Ratio Lower Upper
 43 100
 72 24.4 21.5 32.3



#29
 Tetrahydrofuran
 Concen: 0.70 ug/l
 RT: 7.22 min Scan# 1751
 Delta R.T. 0.00 min
 Lab File: VN050215.D
 Acq: 31 Jul 2018 15:17

Tgt Ion: 42 Resp: 1544
 Ion Ratio Lower Upper
 42 100
 72 8.6 35.9 53.9#
 71 0.0 33.7 50.5#

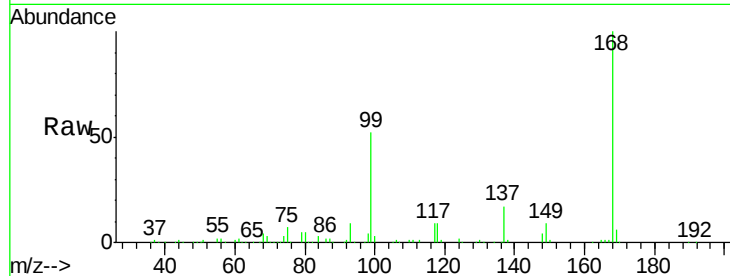




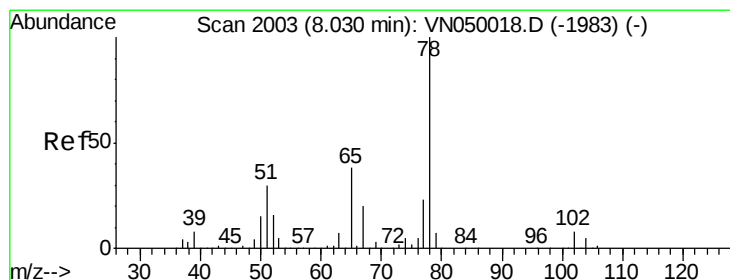
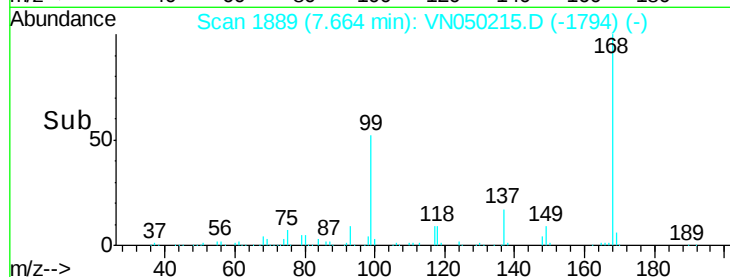
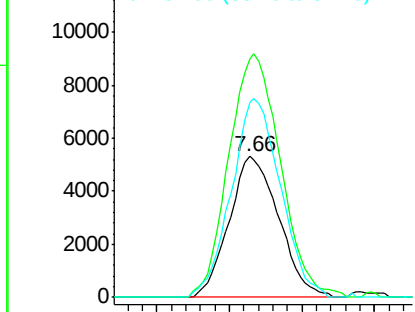
#31
Cyclohexane
Concen: 0.96 ug/l
RT: 7.66 min Scan# 1889
Delta R.T. 0.01 min
Lab File: VN050215.D
Acq: 31 Jul 2018 15:17

Instrument :
MSVOA_N
ClientSampleId :
PB111613ZHE#03

Tot Ion: 56 Resp: 12644
Ion Ratio Lower Upper
56 100
69 169.2 26.2 39.4#
84 138.0 67.4 101.0#

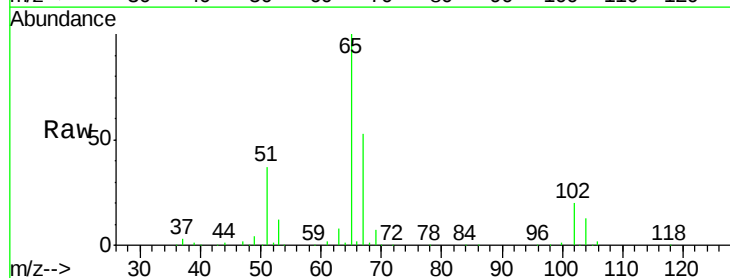


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

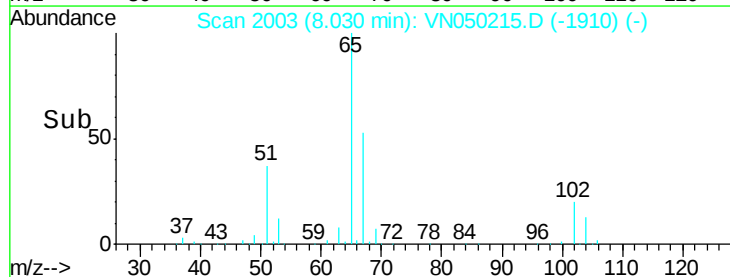
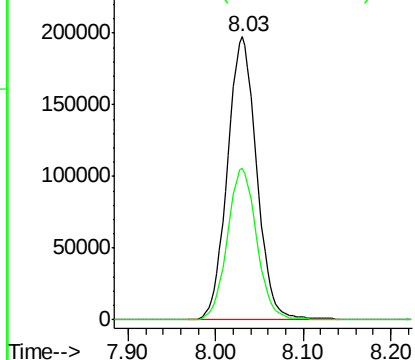


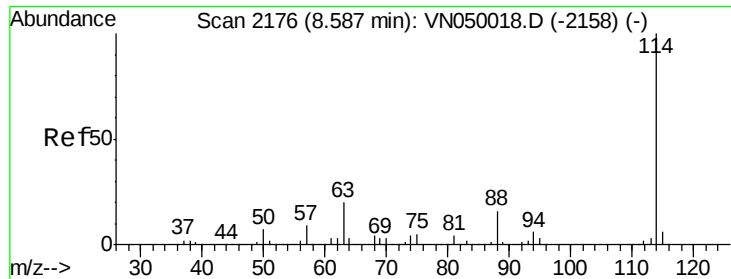
#33
1,2-Dichloroethane-d4
Concen: 51.28 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050215.D
Acq: 31 Jul 2018 15:17

Tgt Ion: 65 Resp: 459259
Ion Ratio Lower Upper
65 100
67 53.9 0.0 108.4



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

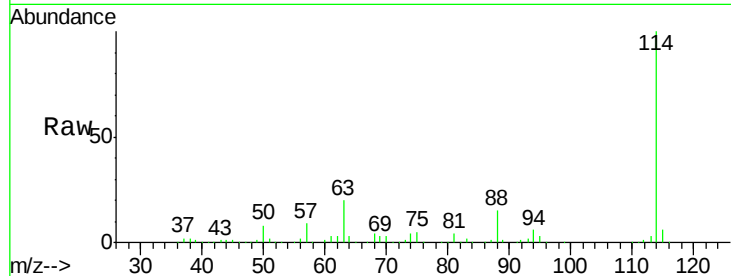




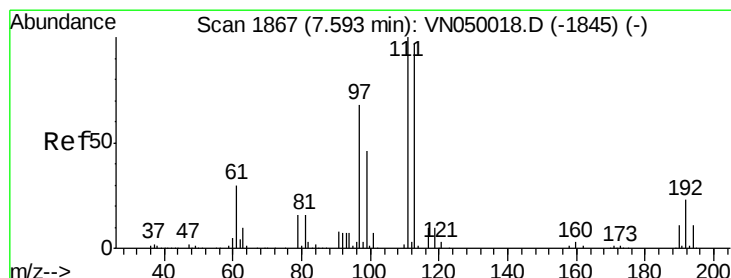
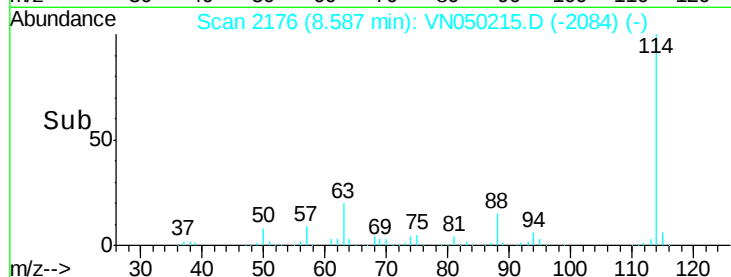
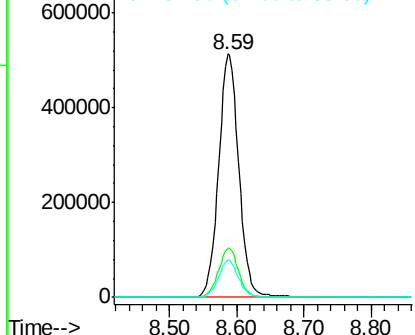
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050215.D
 Acq: 31 Jul 2018 15:17

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111613ZHE#03

Tot Ion:114 Resp: 1078583
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 40.0
 88 15.4 0.0 31.2

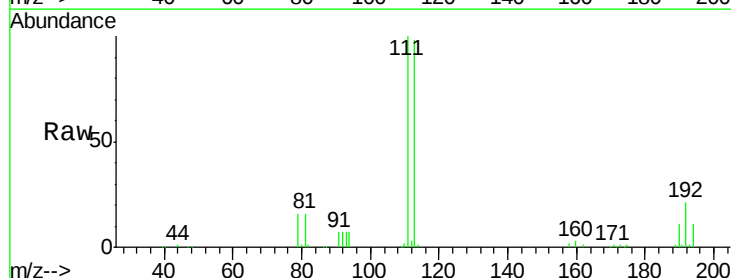


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

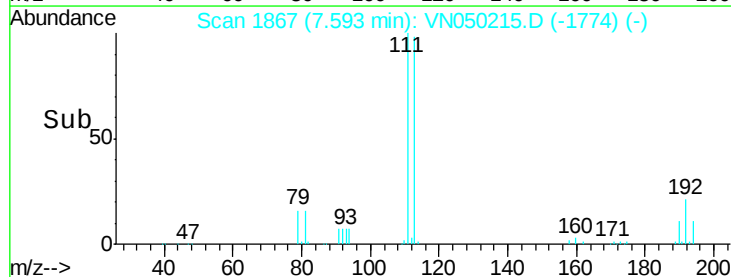
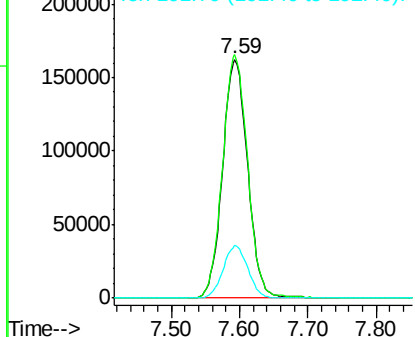


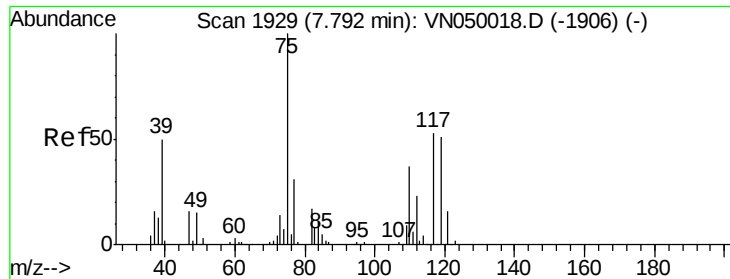
#35
 Dibromofluoromethane
 Concen: 47.06 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050215.D
 Acq: 31 Jul 2018 15:17

Tgt Ion:113 Resp: 414394
 Ion Ratio Lower Upper
 113 100
 111 101.9 80.7 121.1
 192 21.8 17.8 26.6



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

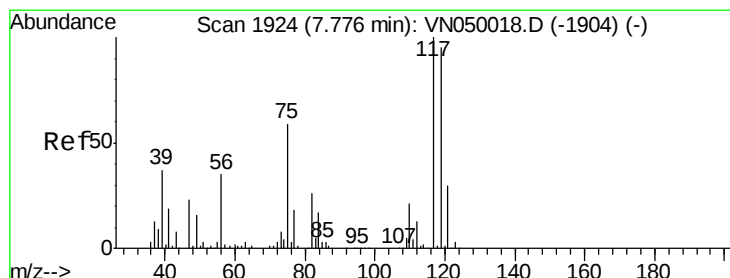
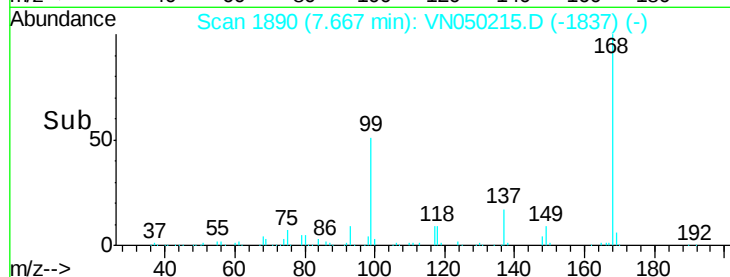
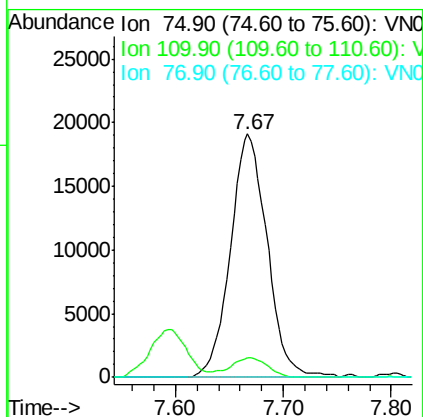
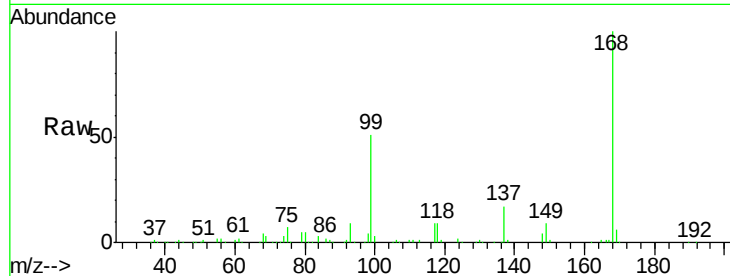




#36
 1,1-Dichloropropene
 Concen: 3.73 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050215.D
 Acq: 31 Jul 2018 15:17

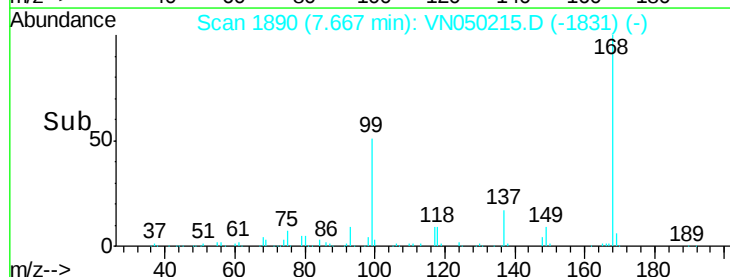
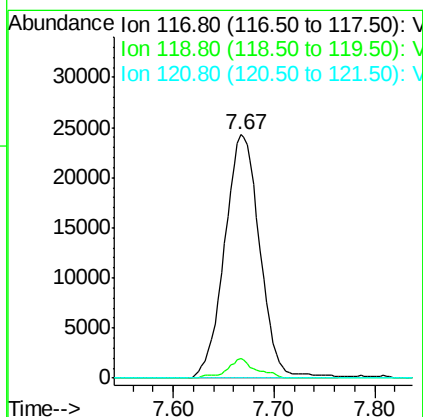
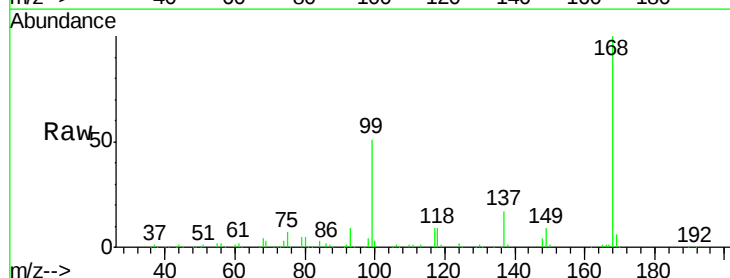
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111613ZHE#03

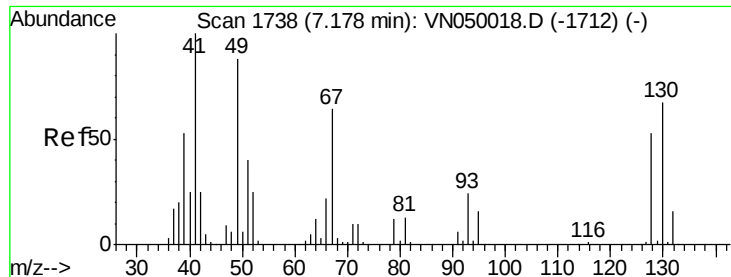
Tot Ion: 75 Resp: 45336
 Ion Ratio Lower Upper
 75 100
 110 7.6 18.4 55.2#
 77 0.0 25.3 37.9#



#38
 Carbon Tetrachloride
 Concen: 4.58 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN050215.D
 Acq: 31 Jul 2018 15:17

Tgt Ion: 117 Resp: 59015
 Ion Ratio Lower Upper
 117 100
 119 8.2 77.4 116.0#
 121 0.0 23.9 35.9#





#41

Methacrylonitrile

Concen: 2.86 ug/l

RT: 7.21 min Scan# 1749

Delta R.T. 0.04 min

Lab File: VN050215.D

Acq: 31 Jul 2018 15:17

Instrument :

MSVOA_N

ClientSampleId :

PB111613ZHE#03

Tot Ion: 41 Resp: 512

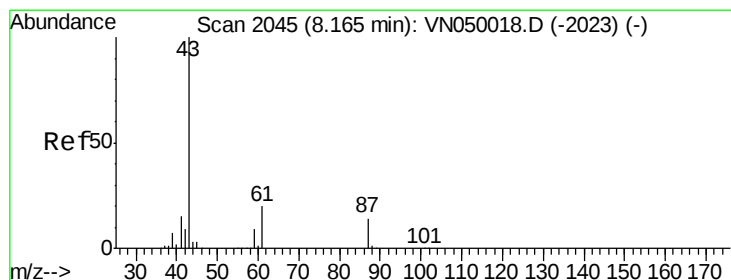
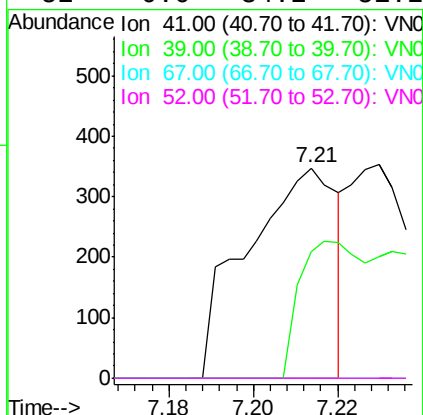
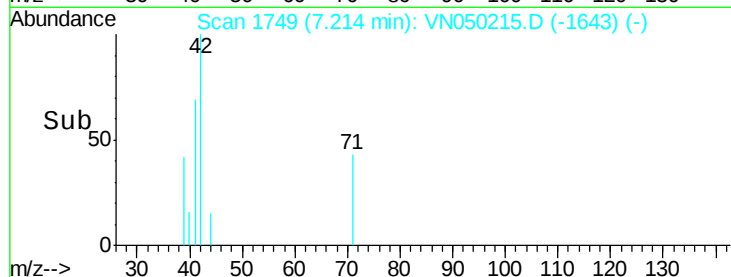
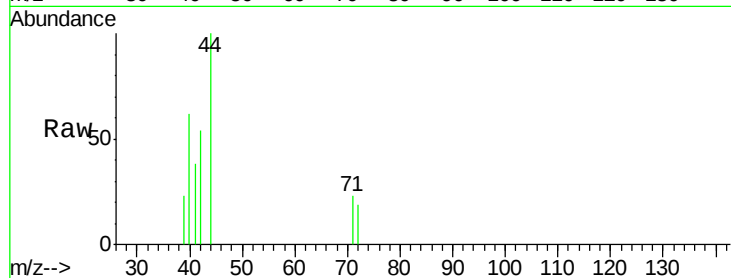
Ion Ratio Lower Upper

41 100

39 45.7 55.8 83.6#

67 0.0 84.3 126.5#

52 0.0 34.2 51.2#



#43

Isopropyl Acetate

Concen: 21.74 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050215.D

Acq: 31 Jul 2018 15:17

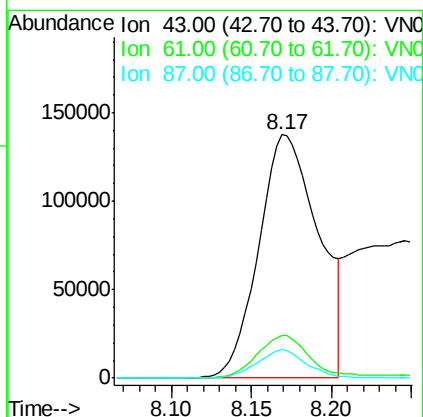
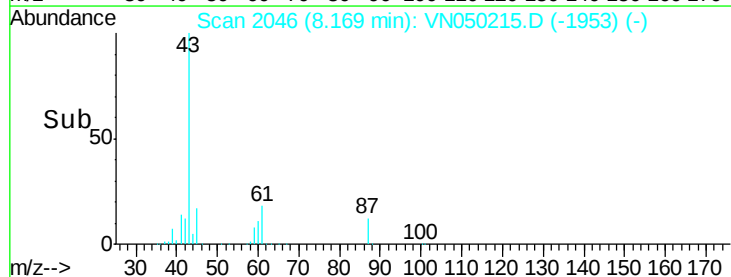
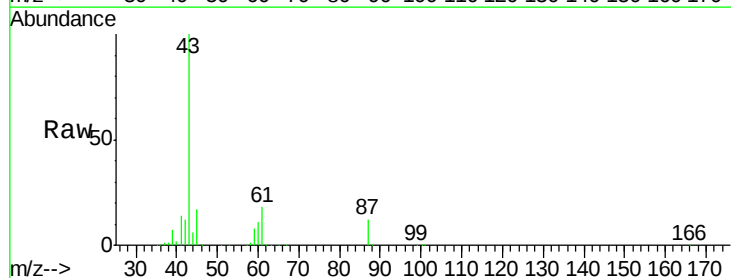
Tgt Ion: 43 Resp: 357386

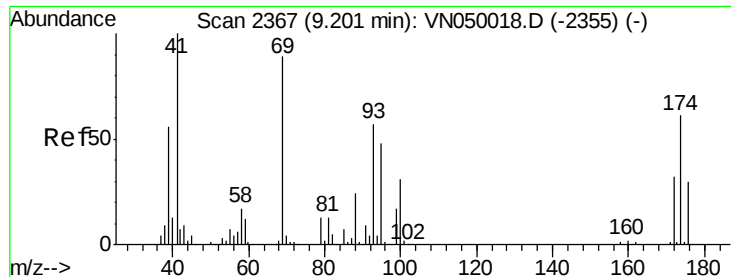
Ion Ratio Lower Upper

43 100

61 15.5 15.8 23.6#

87 9.6 10.3 15.5#

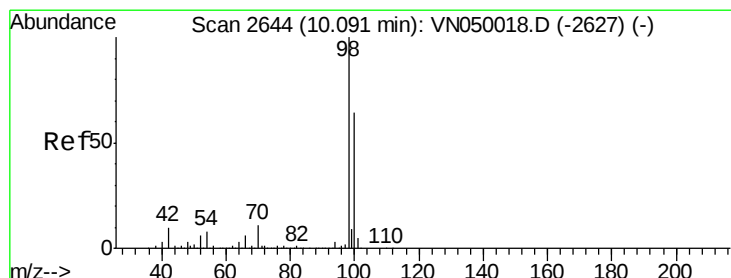
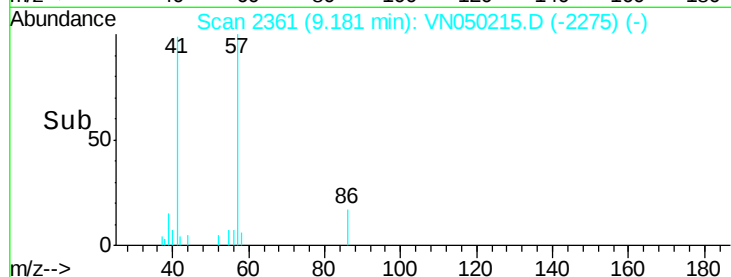
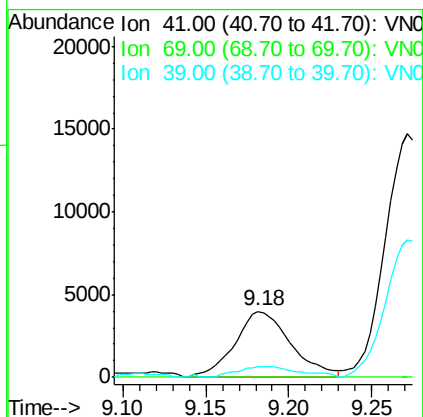
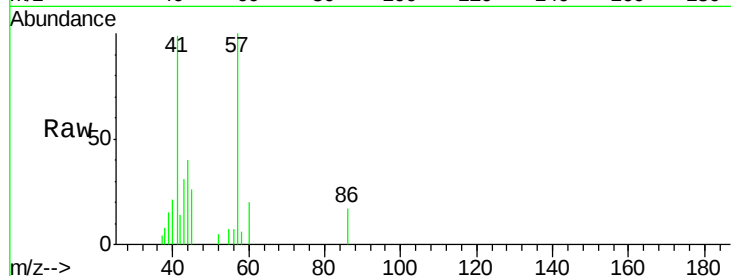




#48
Methyl methacrylate
Concen: 1.29 ug/l
RT: 9.18 min Scan# 2361
Delta R.T. -0.02 min
Lab File: VN050215.D
Acq: 31 Jul 2018 15:17

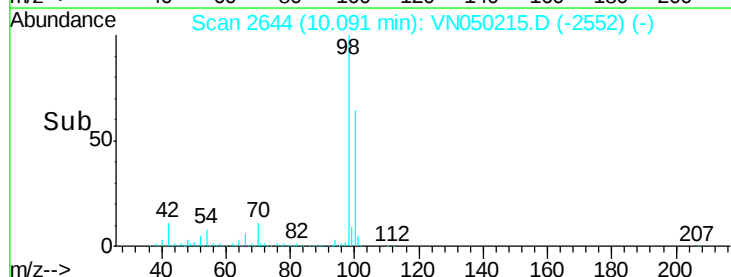
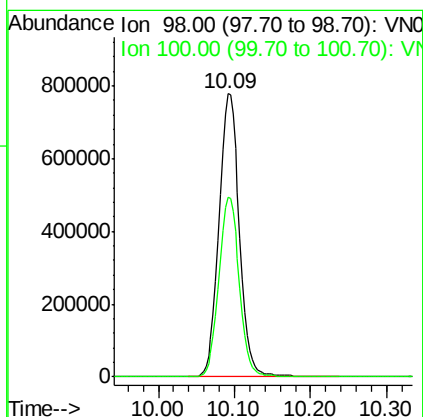
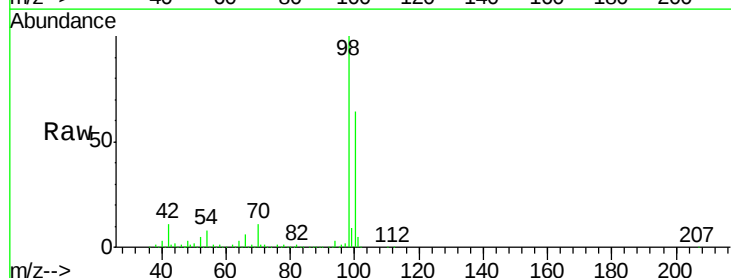
Instrument :
MSVOA_N
ClientSampleId :
PB111613ZHE#03

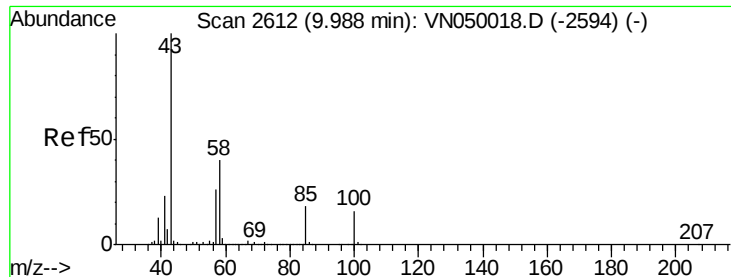
Tot Ion: 41 Resp: 9395
Ion Ratio Lower Upper
41 100
69 0.0 70.6 105.8#
39 18.2 43.9 65.9#



#50
Toluene-d8
Concen: 44.87 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050215.D
Acq: 31 Jul 2018 15:17

Tgt Ion: 98 Resp: 1452849
Ion Ratio Lower Upper
98 100
100 63.5 50.7 76.1

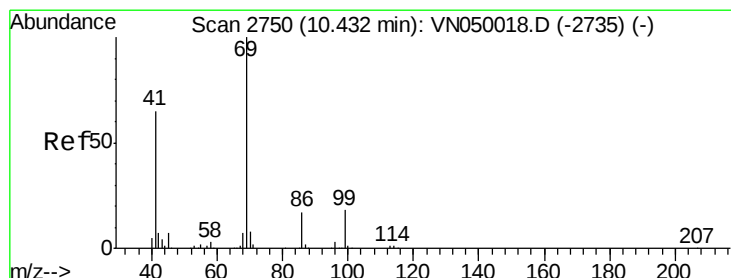
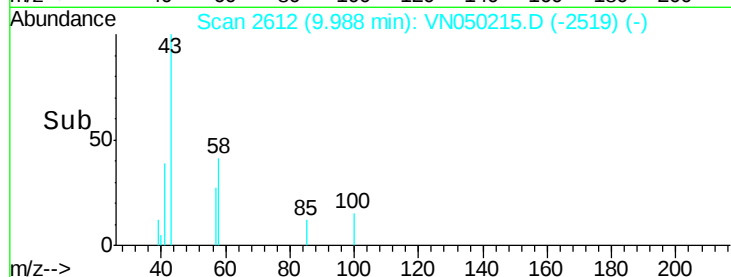
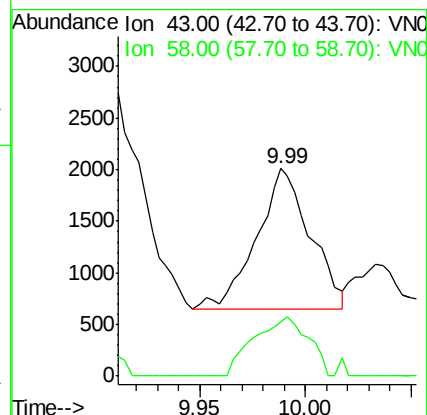
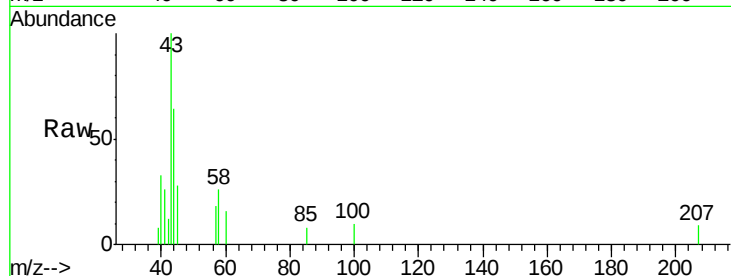




#51
4-Methyl-2-Pentanone
Concen: 0.29 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN050215.D
Acq: 31 Jul 2018 15:17

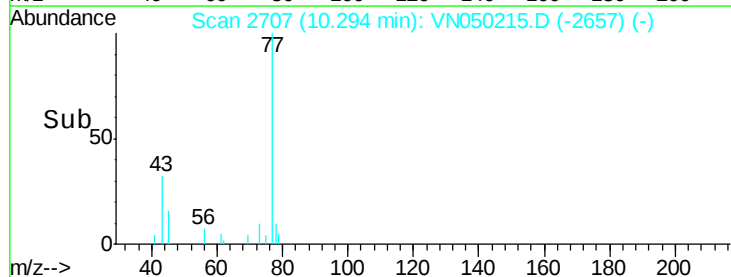
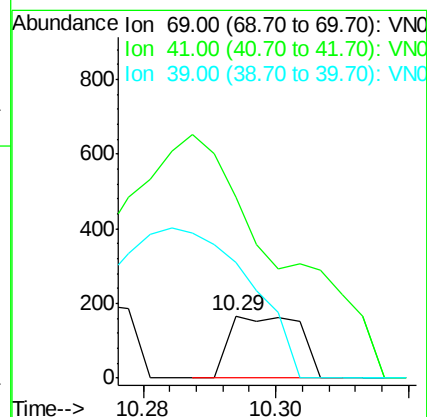
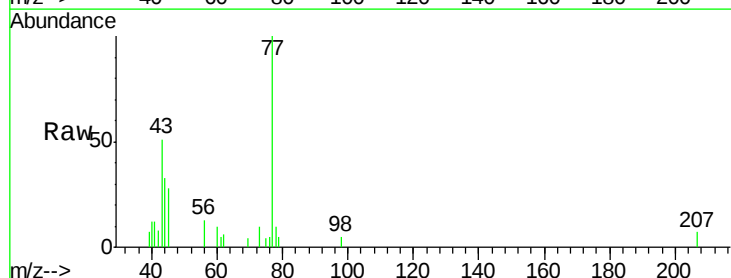
Instrument :
MSVOA_N
ClientSampleId :
PB111613ZHE#03

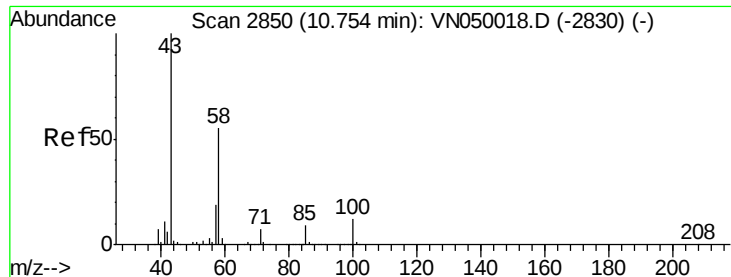
Tot Ion: 43 Resp: 2410
Ion Ratio Lower Upper
43 100
58 42.8 31.9 47.9



#56
Ethyl methacrylate
Concen: 2.04 ug/l
RT: 10.29 min Scan# 2707
Delta R.T. -0.14 min
Lab File: VN050215.D
Acq: 31 Jul 2018 15:17

Tgt Ion: 69 Resp: 123
Ion Ratio Lower Upper
69 100
41 845.5 51.0 76.4#
39 507.3 26.6 40.0#





#59

2-Hexanone

Concen: 8.56 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050215.D

Acq: 31 Jul 2018 15:17

Instrument :

MSVOA_N

ClientSampleId :

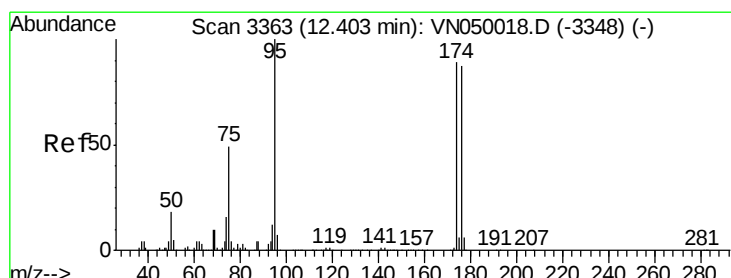
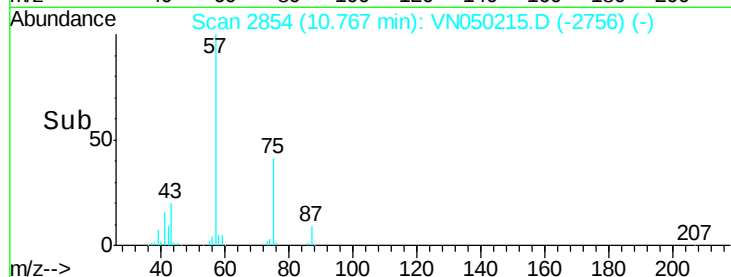
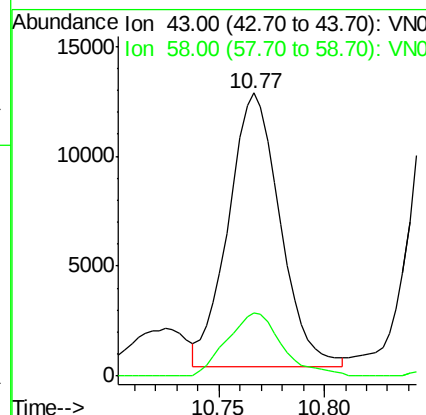
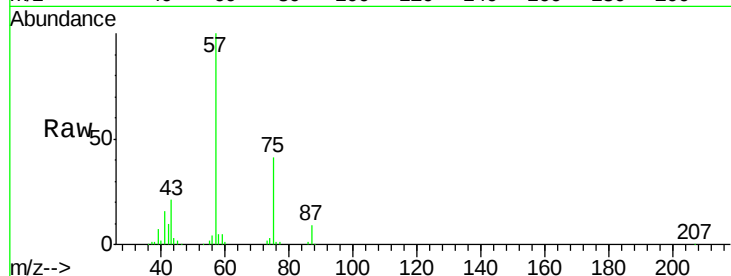
PB111613ZHE#03

Tot Ion: 43 Resp: 21168

Ion Ratio Lower Upper

43 100

58 24.7 27.6 82.7#



#62

4-Bromofluorobenzene

Concen: 36.18 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050215.D

Acq: 31 Jul 2018 15:17

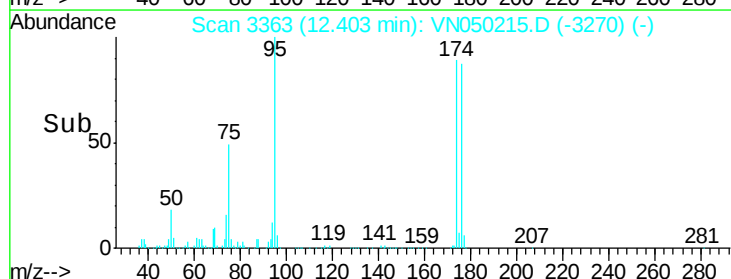
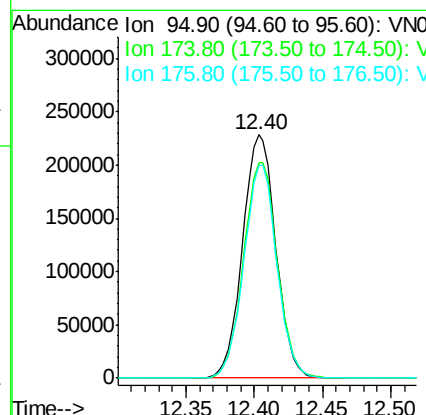
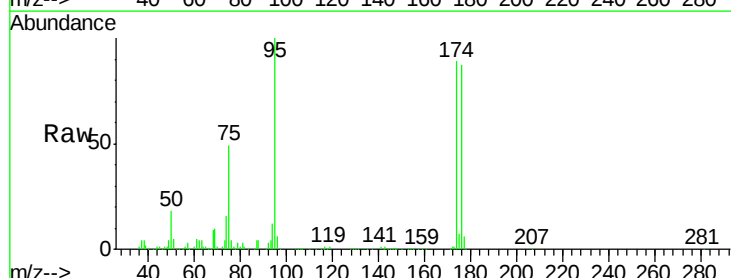
Tgt Ion: 95 Resp: 385703

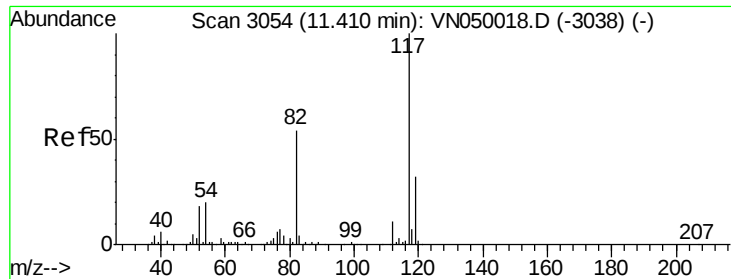
Ion Ratio Lower Upper

95 100

174 90.2 0.0 178.2

176 87.1 0.0 173.4

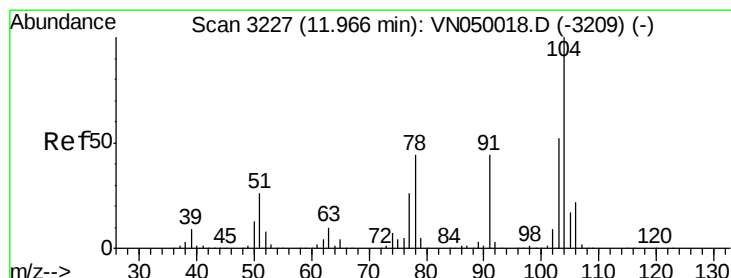
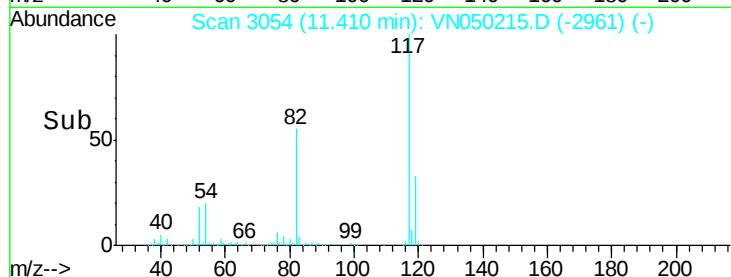
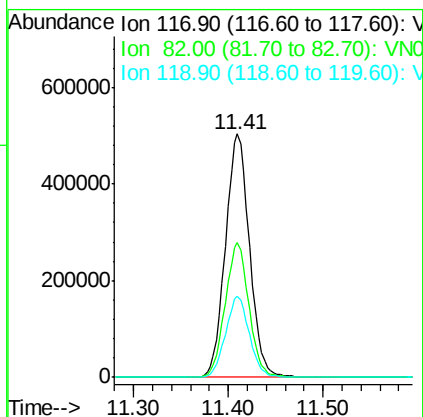
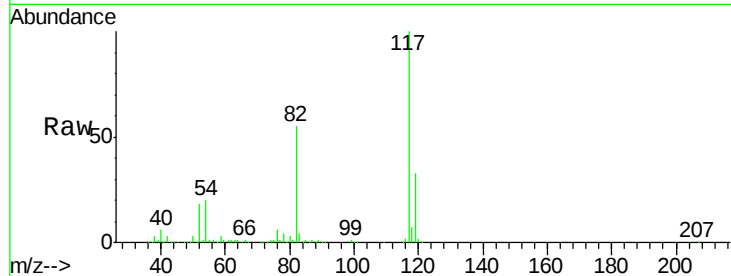




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050215.D
Acq: 31 Jul 2018 15:17

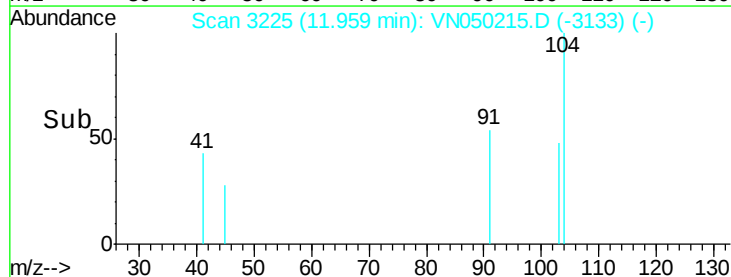
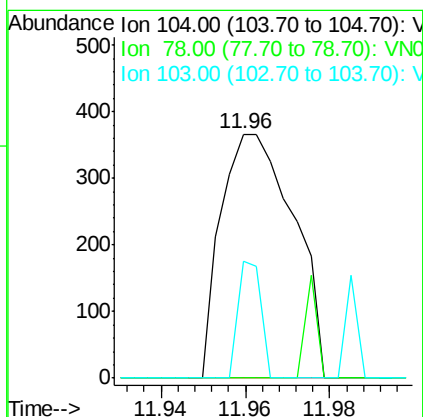
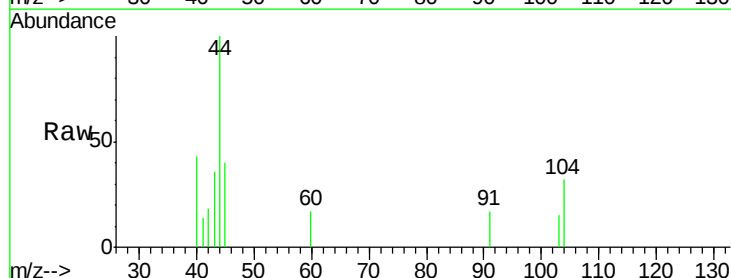
Instrument :
MSVOA_N
ClientSampleId :
PB111613ZHE#03

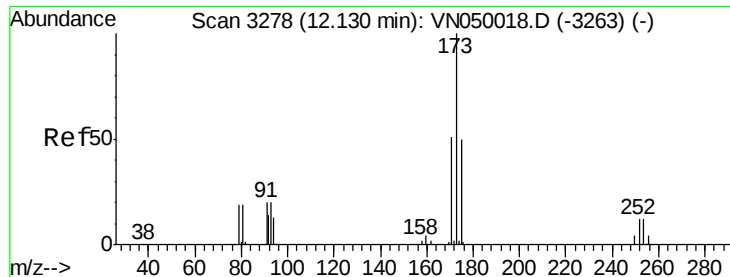
Tot Ion:117 Resp: 890555
Ion Ratio Lower Upper
117 100
82 55.2 43.7 65.5
119 33.4 26.1 39.1



#70
Styrene
Concen: 0.94 ug/l
RT: 11.96 min Scan# 3225
Delta R.T. -0.01 min
Lab File: VN050215.D
Acq: 31 Jul 2018 15:17

Tgt Ion:104 Resp: 437
Ion Ratio Lower Upper
104 100
78 0.0 39.3 58.9#
103 15.1 45.0 67.6#





#71

Bromoform

Concen: 0.53 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN050215.D

Acq: 31 Jul 2018 15:17

Instrument :

MSVOA_N

ClientSampleId :

PB111613ZHE#03

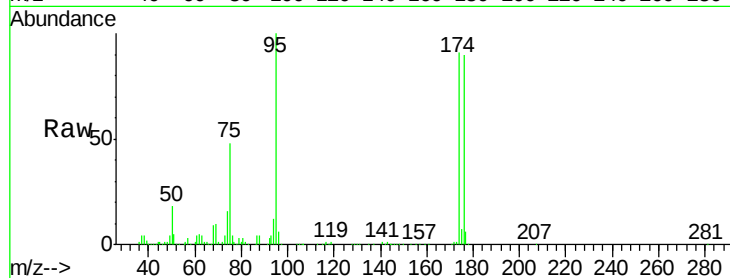
Tot Ion:173 Resp: 3331

Ion Ratio Lower Upper

173 100

175 676.9 24.1 72.2#

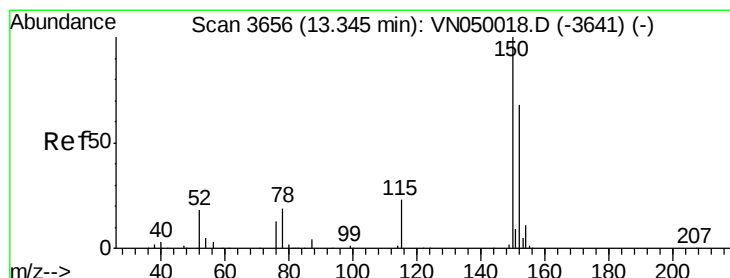
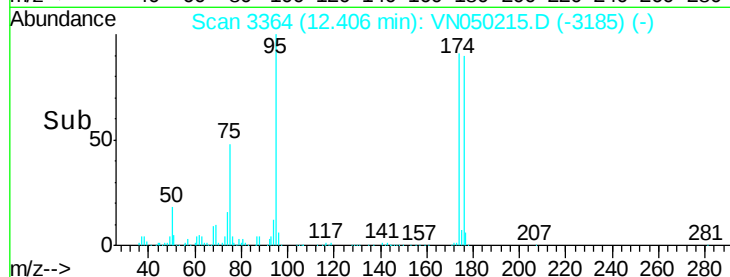
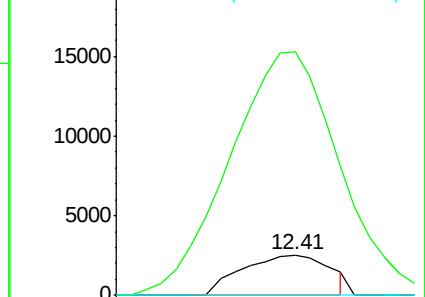
254 0.0 0.2 0.2#



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: VN050215.D

Acq: 31 Jul 2018 15:17

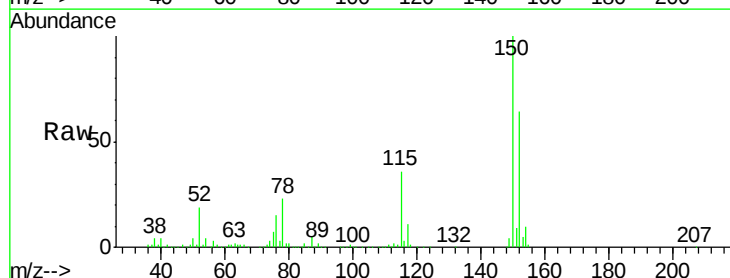
Tgt Ion:152 Resp: 301529

Ion Ratio Lower Upper

152 100

115 56.4 27.8 83.3

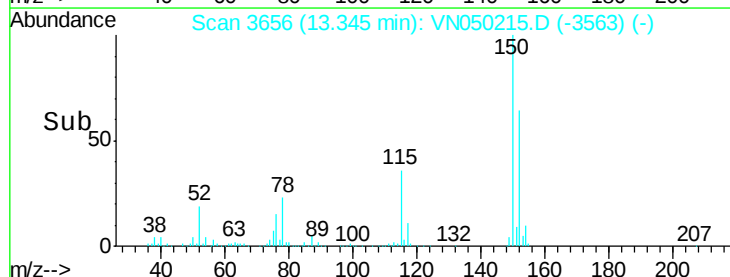
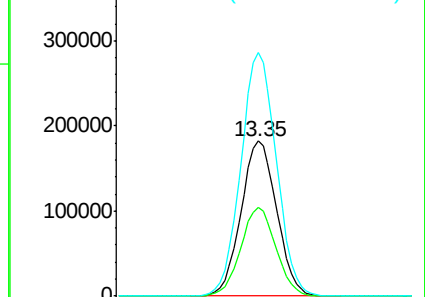
150 156.6 0.0 348.6

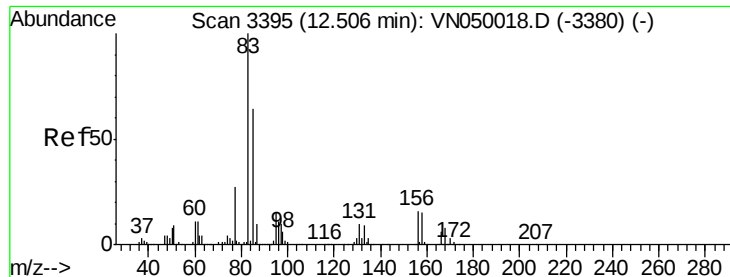


Abundance Ion 151.90 (151.60 to 152.60): V

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: 12.50 min Scan# 3394

Delta R.T. -0.00 min

Lab File: VN050215.D

Acq: 31 Jul 2018 15:17

Instrument :

MSVOA_N

ClientSampleId :

PB111613ZHE#03

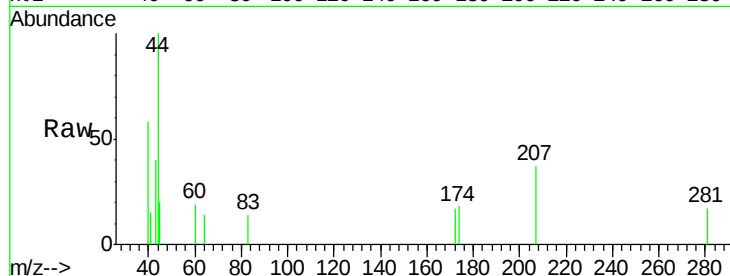
Tot Ion: 83 Resp: 30

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

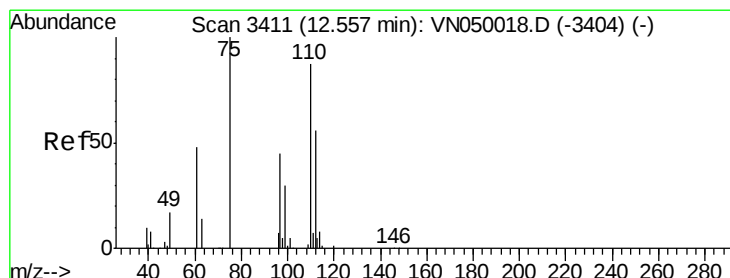
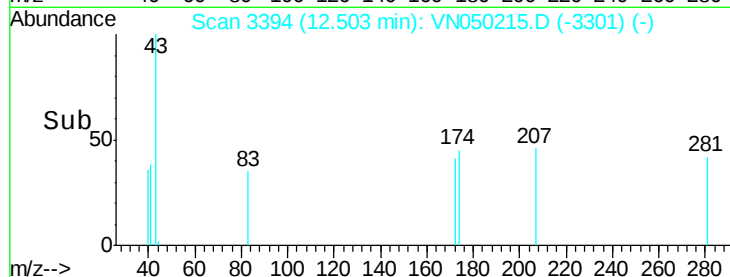
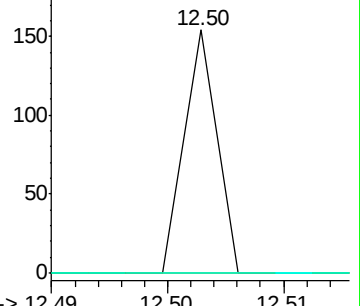
85 0.0 32.3 96.8#



Abundance Ion 82.90 (82.60 to 83.60): VN050018.D (-3380) (-)

Ion 130.80 (130.50 to 131.50): VN050018.D (-3380) (-)

Ion 84.90 (84.60 to 85.60): VN050018.D (-3380) (-)



#76

1,2,3-Trichloropropane

Concen: 33.70 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050215.D

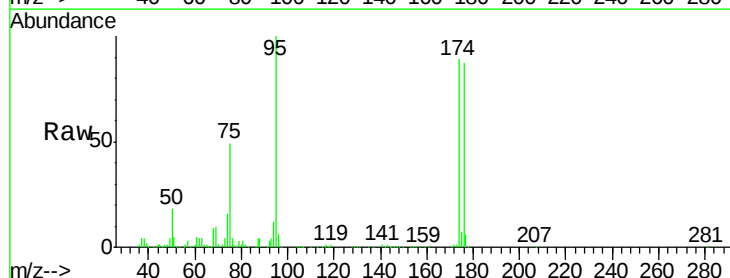
Acq: 31 Jul 2018 15:17

Tgt Ion: 75 Resp: 188863

Ion Ratio Lower Upper

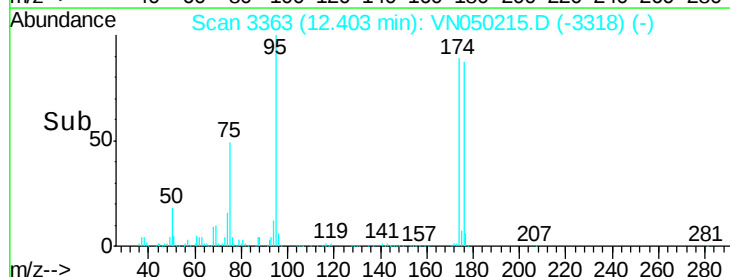
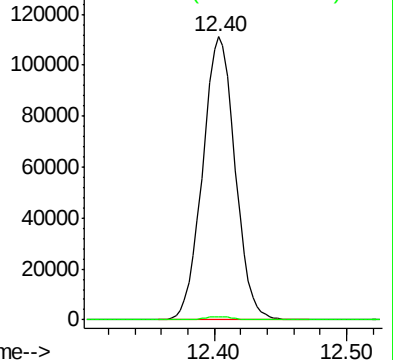
75 100

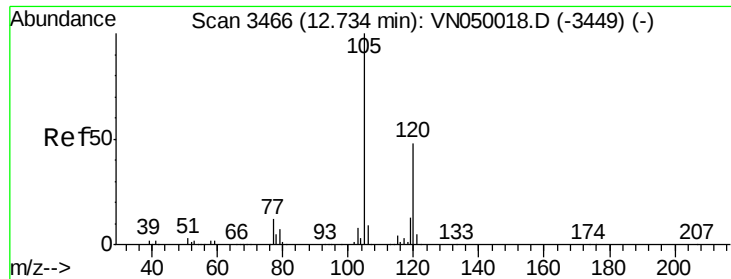
77 1.1 0.0 0.0#



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

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

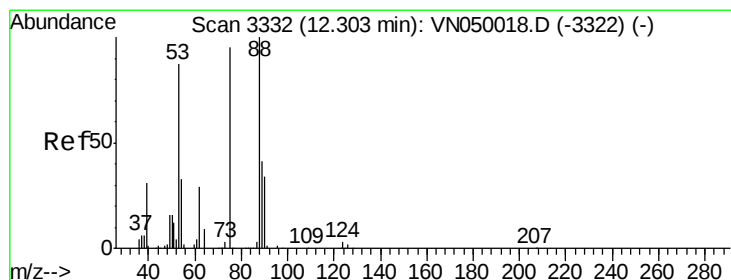
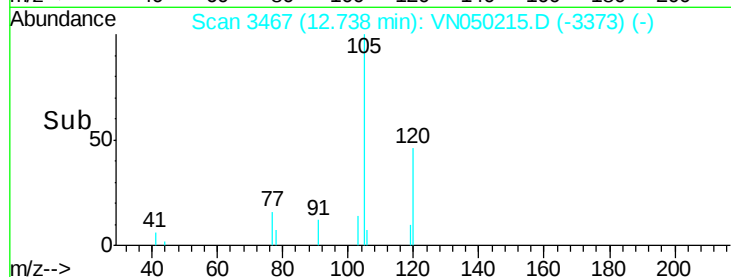
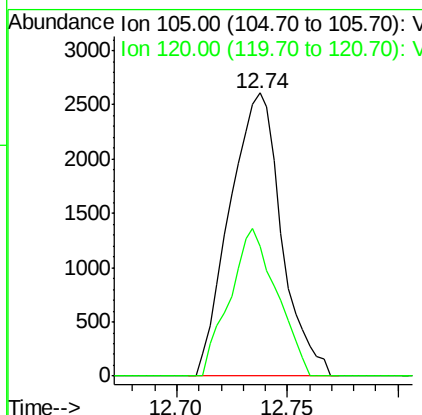
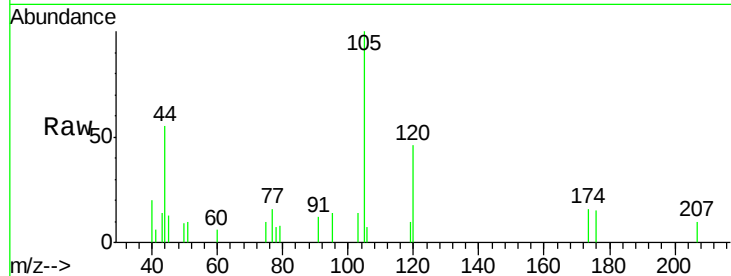




#80
 1,3,5-Trimethylbenzene
 Concen: 0.23 ug/l
 RT: 12.74 min Scan# 3467
 Delta R.T. 0.00 min
 Lab File: VN050215.D
 Acq: 31 Jul 2018 15:17

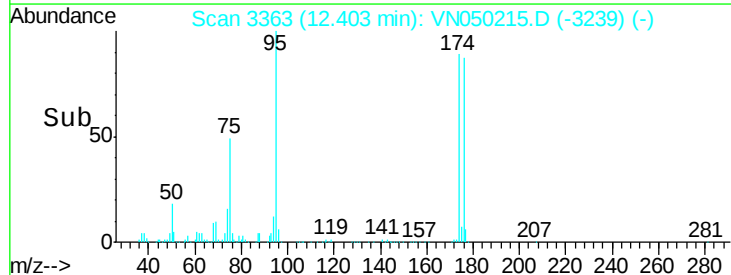
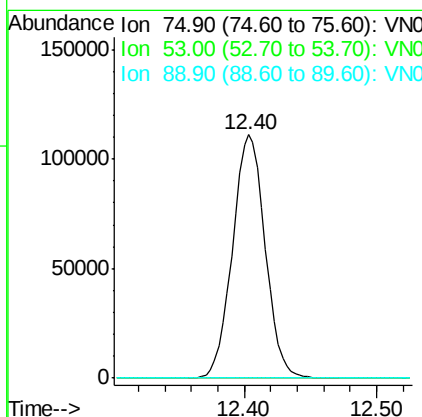
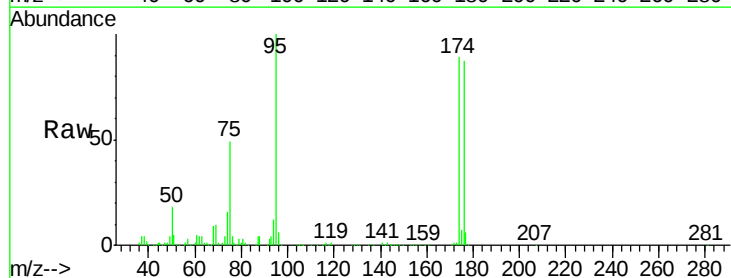
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111613ZHE#03

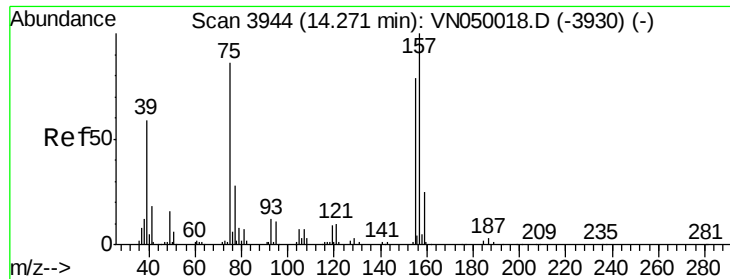
Tot Ion:105 Resp: 4251
 Ion Ratio Lower Upper
 105 100
 120 47.3 24.4 73.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 106.90 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.10 min
 Lab File: VN050215.D
 Acq: 31 Jul 2018 15:17

Tgt Ion: 75 Resp: 188863
 Ion Ratio Lower Upper
 75 100
 53 0.1 73.5 110.3#
 89 0.0 36.0 54.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.26 min Scan# 3942

Delta R.T. -0.01 min

Lab File: VN050215.D

Acq: 31 Jul 2018 15:17

Instrument :

MSVOA_N

ClientSampleId :

PB111613ZHE#03

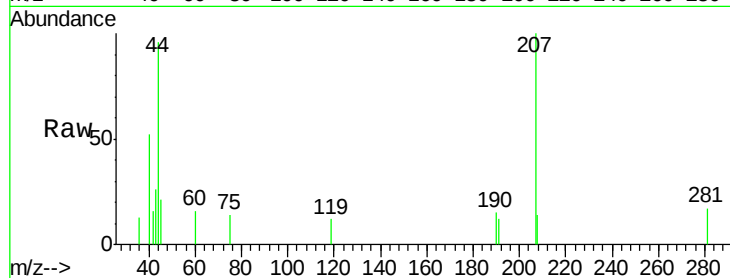
Tot Ion: 75 Resp: 129

Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

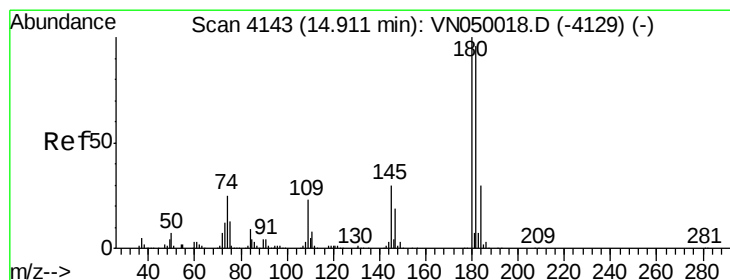
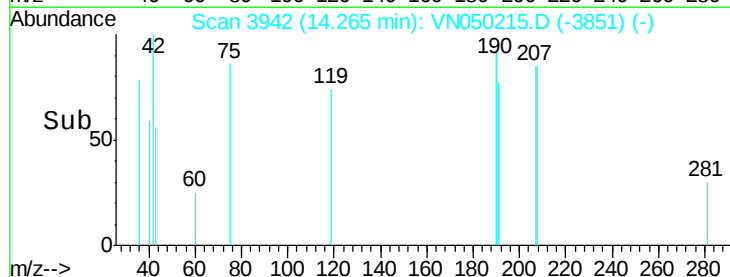
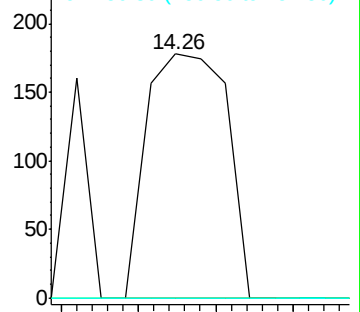
157 0.0 57.2 171.6#



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



#93

1,2,4-Trichlorobenzene

Concen: 3.16 ug/l

RT: 14.91 min Scan# 4144

Delta R.T. 0.00 min

Lab File: VN050215.D

Acq: 31 Jul 2018 15:17

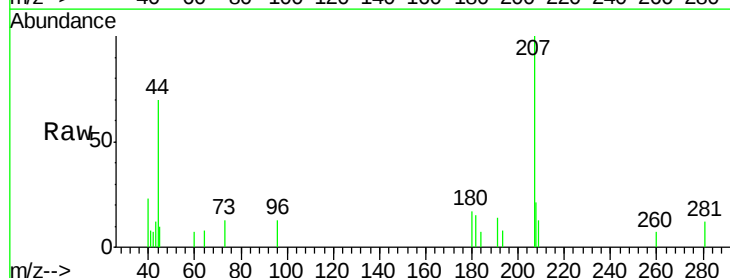
Tgt Ion: 180 Resp: 440

Ion Ratio Lower Upper

180 100

182 124.5 46.7 140.1

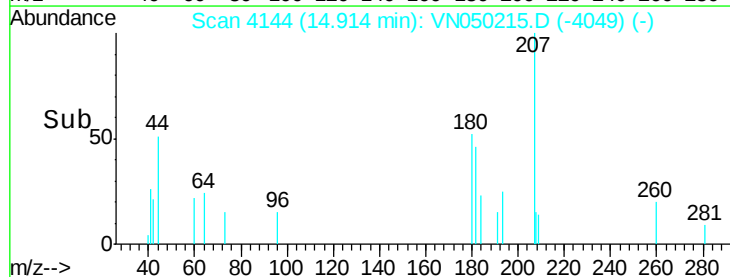
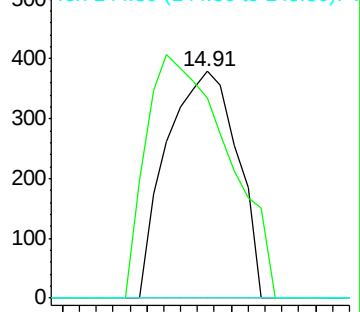
145 0.0 13.8 41.4#

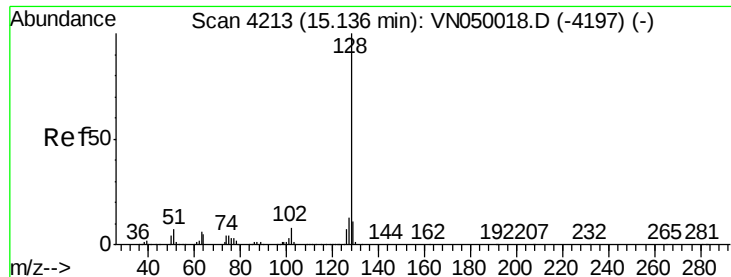


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

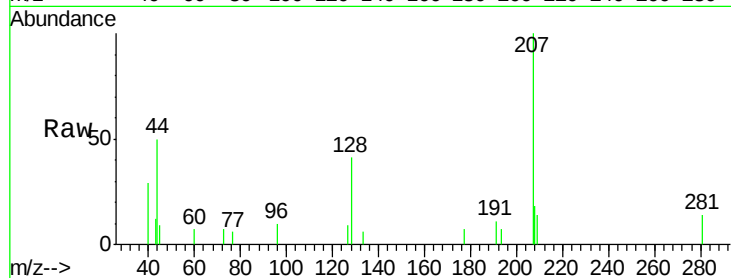




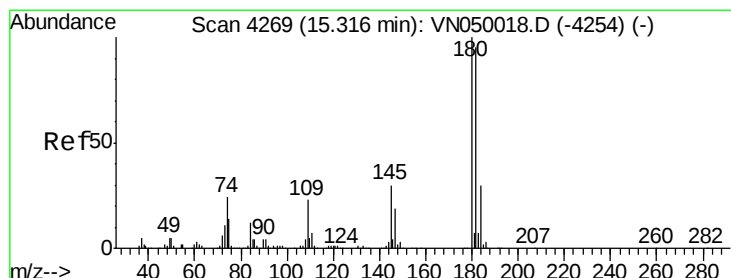
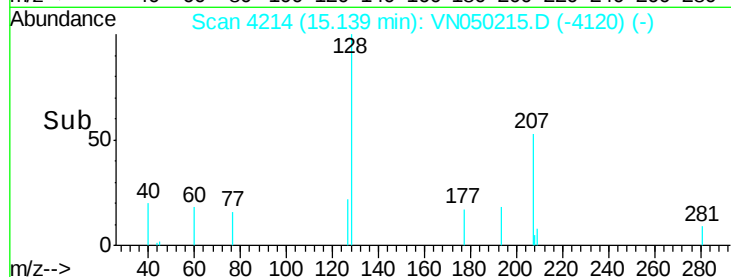
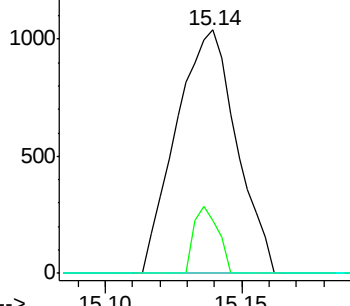
#95
Naphthalene
Concen: 4.52 ug/l
RT: 15.14 min Scan# 4214
Delta R.T. 0.00 min
Lab File: VN050215.D
Acq: 31 Jul 2018 15:17

Instrument :
MSVOA_N
ClientSampleId :
PB111613ZHE#03

Tot Ion:128 Resp: 1596
Ion Ratio Lower Upper
128 100
127 10.8 10.4 15.6
129 0.0 8.8 13.2#

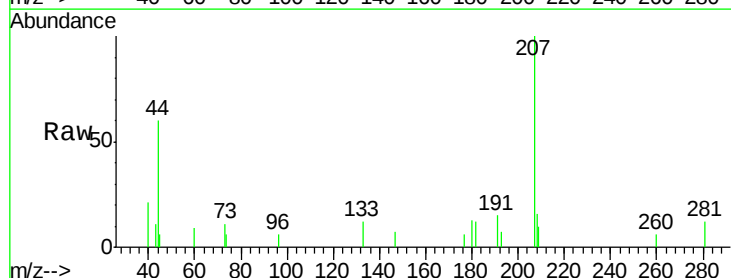


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 2.28 ug/l
RT: 15.31 min Scan# 4268
Delta R.T. -0.01 min
Lab File: VN050215.D
Acq: 31 Jul 2018 15:17

Tgt Ion:180 Resp: 456
Ion Ratio Lower Upper
180 100
182 90.6 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

