

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080418\
 Data File : VN050358.D
 Acq On : 4 Aug 2018 11:38
 Operator : MD\SY
 Sample : J4328-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TRIPBLANK

Quant Time: Aug 06 01:34:42 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	680493	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1100050	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	932073	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	359169	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	469680	49.47	ug/l	0.00
Spiked Amount			Recovery	=	98.94%	
35) Dibromofluoromethane	7.59	113	418120	46.55	ug/l	0.00
Spiked Amount			Recovery	=	93.10%	
50) Toluene-d8	10.09	98	1520791	46.06	ug/l	0.00
Spiked Amount			Recovery	=	92.12%	
62) 4-Bromofluorobenzene	12.40	95	426495	39.23	ug/l	0.00
Spiked Amount			Recovery	=	78.46%	

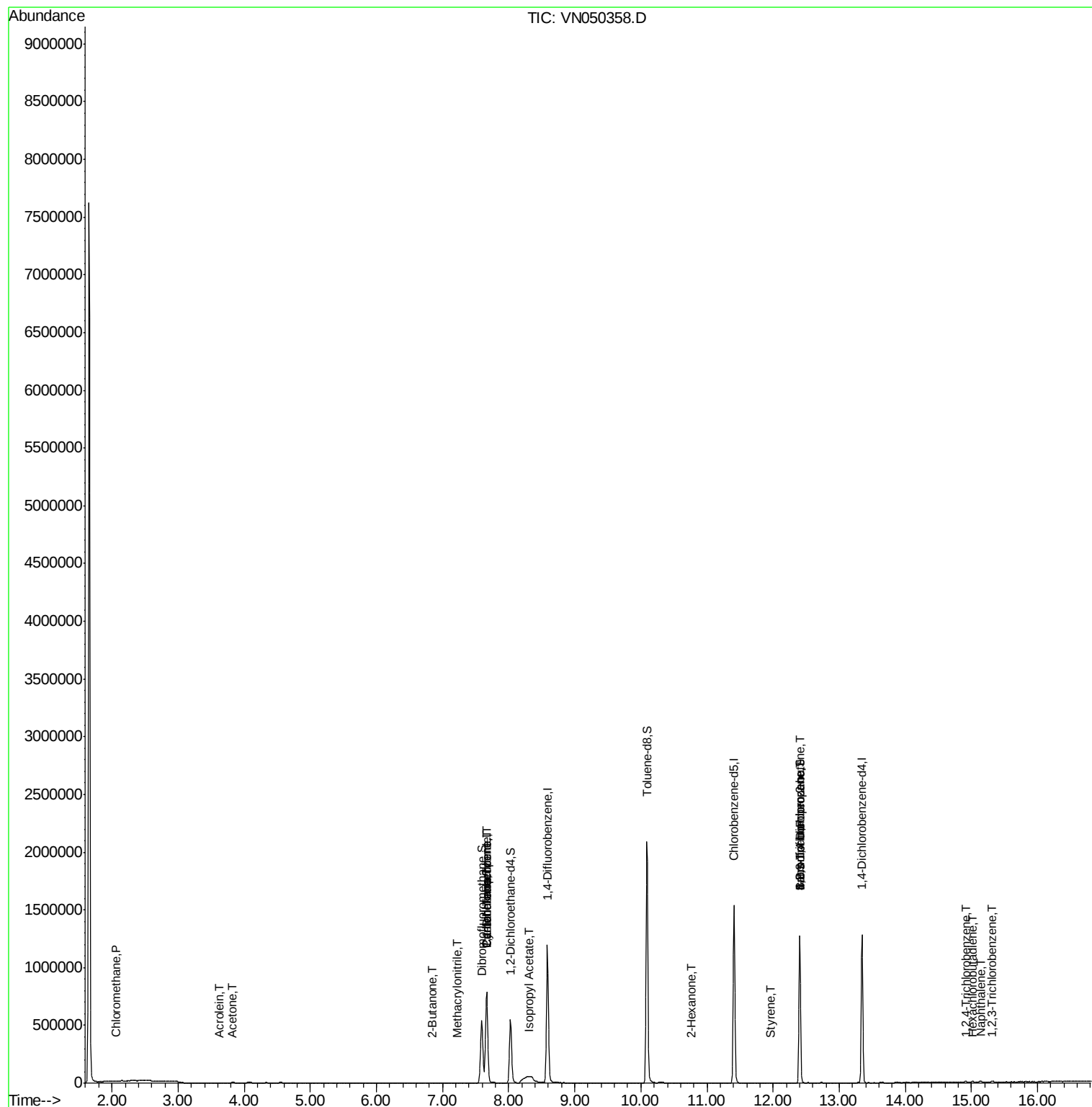
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2869	0.27	ug/l	98
5) Bromomethane	2.56	94	3810	Below Cal		98
13) Acrolein	3.61	56	956	1.70	ug/l #	70
16) Acetone	3.82	43	11989	1.04	ug/l	97
18) Methyl Acetate	4.33	43	5204	Below Cal	#	77
20) Methylene Chloride	4.55	84	4186	Below Cal	#	86
25) 2-Butanone	6.85	43	1189	0.33	ug/l #	48
31) Cyclohexane	7.66	56	12465	0.89	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	47380	3.82	ug/l #	49
38) Carbon Tetrachloride	7.67	117	62115	4.72	ug/l #	16
41) Methacrylonitrile	7.22	41	416	2.84	ug/l #	31
43) Isopropyl Acetate	8.30	43	108114	5.63	ug/l #	61
59) 2-Hexanone	10.75	43	903	5.32	ug/l	72
70) Styrene	11.96	104	463	0.94	ug/l #	68
71) Bromoform	12.40	173	3963	0.60	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.50	83	162	Below Cal	#	45
76) 1,2,3-Trichloropropane	12.40	75	206382	30.92	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	206382	98.07	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.27	75	64	Below Cal	#	48
93) 1,2,4-Trichlorobenzene	14.91	180	2818	3.47	ug/l	89
94) Hexachlorobutadiene	15.01	225	1257	0.31	ug/l #	65
95) Naphthalene	15.14	128	6881	4.80	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	2520	2.56	ug/l	84

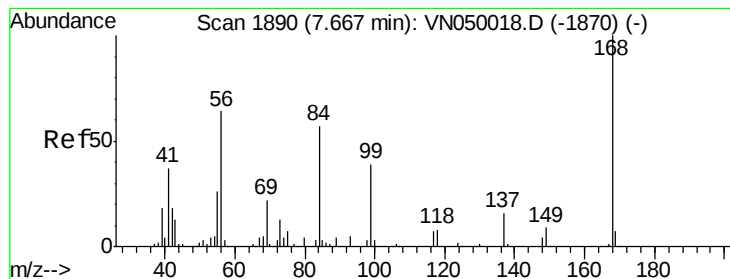
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080418\
Data File : VN050358.D
Acq On : 4 Aug 2018 11:38
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Instrument :
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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





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN050358.D

Acq: 4 Aug 2018 11:38

Instrument :

MSVOA_N

ClientSampleId :

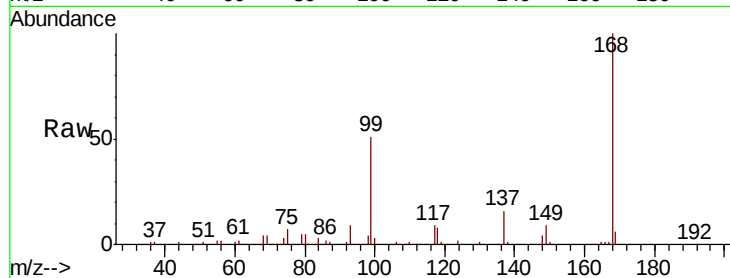
TRIPBLANK

Tot Ion:168 Resp: 680493

Ion Ratio Lower Upper

168 100

99 50.7 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

300000

250000

200000

150000

100000

50000

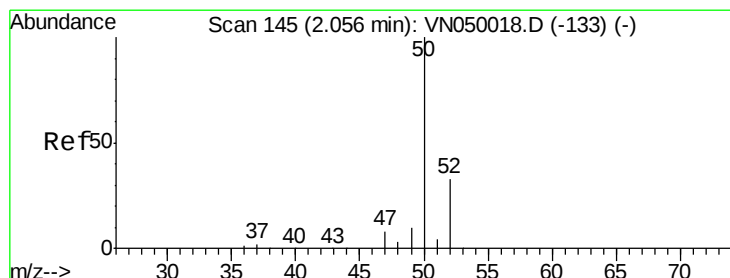
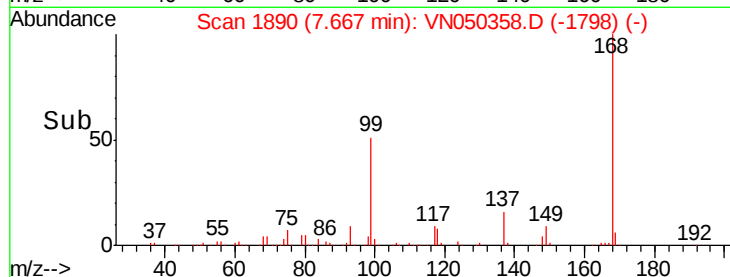
0

Time-->

7.60

7.70

7.80



#3

Chloromethane

Concen: 0.27 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050358.D

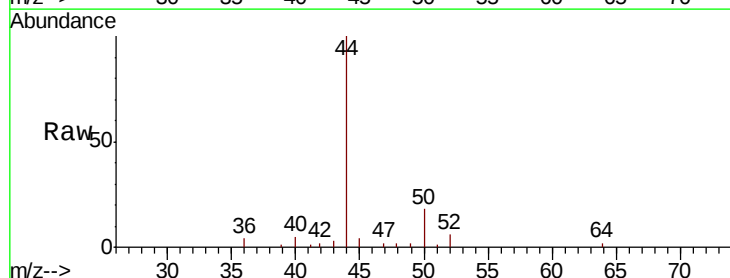
Acq: 4 Aug 2018 11:38

Tgt Ion: 50 Resp: 2869

Ion Ratio Lower Upper

50 100

52 33.3 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2500

2000

1500

1000

500

0

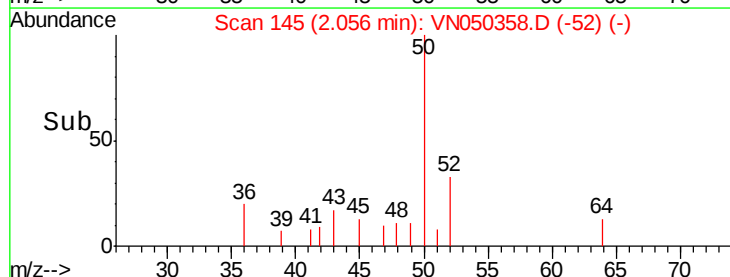
Time-->

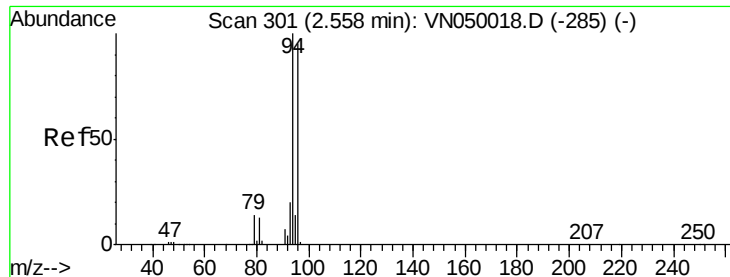
2.02

2.04

2.06

2.08





#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 303

Delta R.T. 0.01 min

Lab File: VN050358.D

Acq: 4 Aug 2018 11:38

Instrument :

MSVOA_N

ClientSampleId :

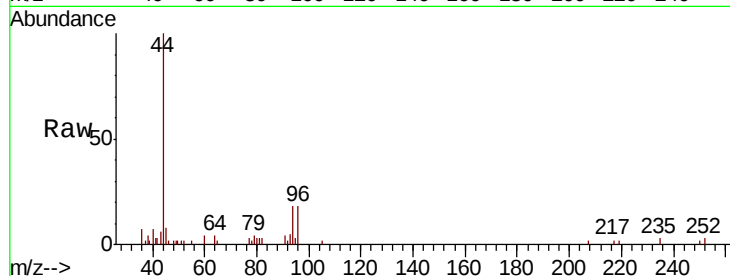
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Tot Ion: 94 Resp: 3810

Ion Ratio Lower Upper

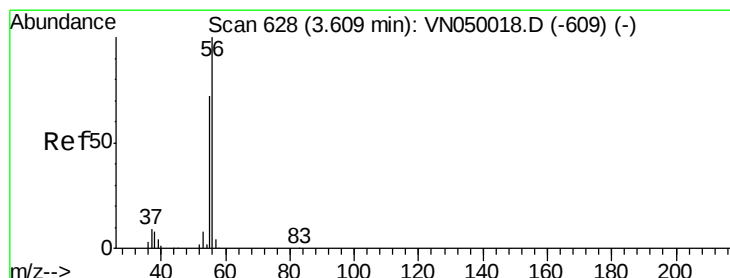
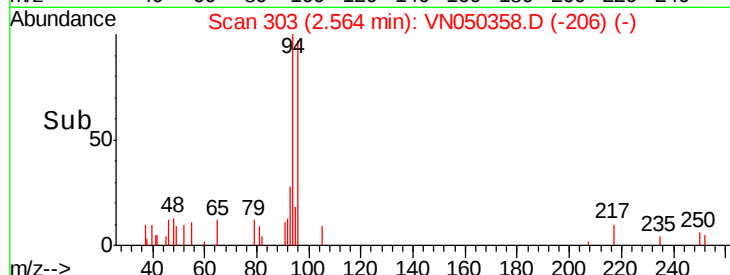
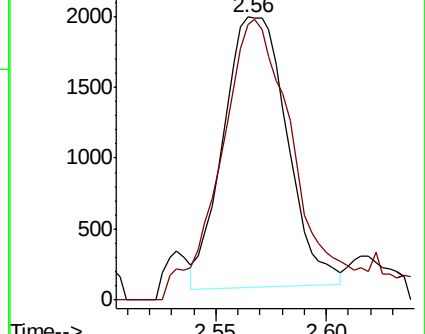
94 100

96 95.0 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#13

Acrolein

Concen: 1.70 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN050358.D

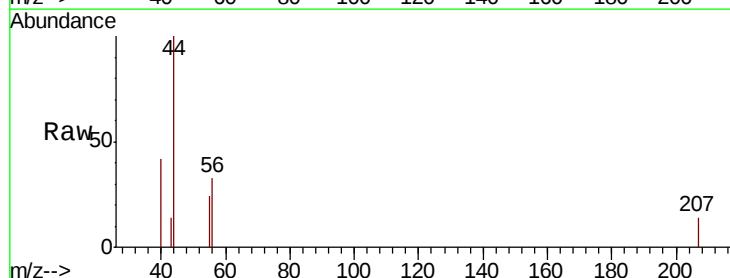
Acq: 4 Aug 2018 11:38

Tgt Ion: 56 Resp: 956

Ion Ratio Lower Upper

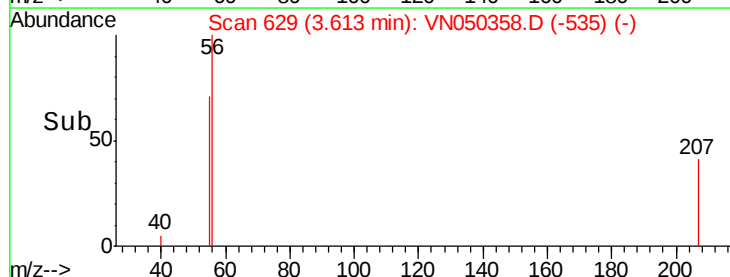
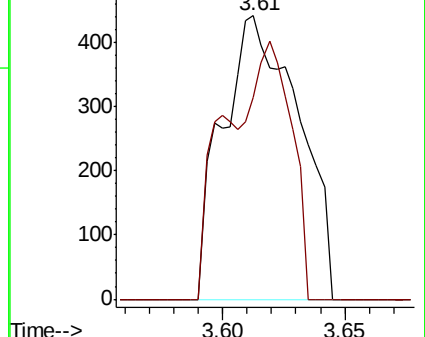
56 100

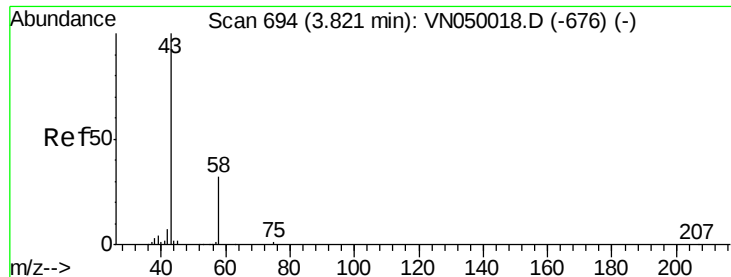
55 45.2 55.8 83.6#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: 1.04 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN050358.D

Acq: 4 Aug 2018 11:38

Instrument :

MSVOA_N

ClientSampleId :

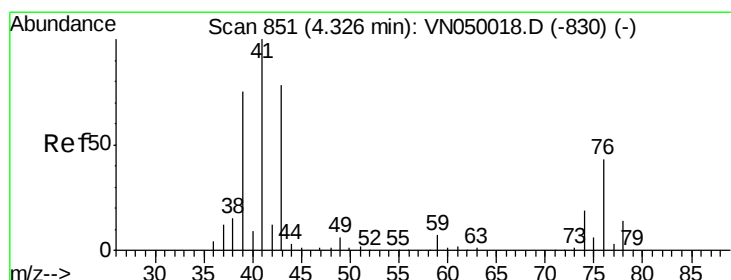
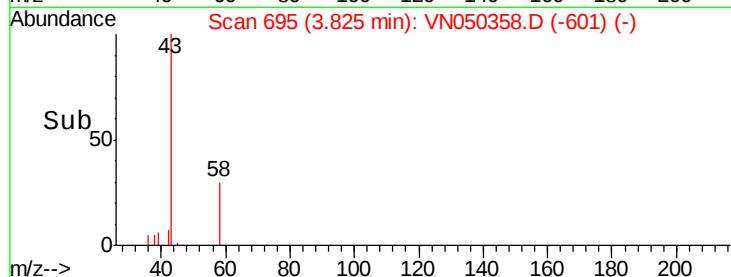
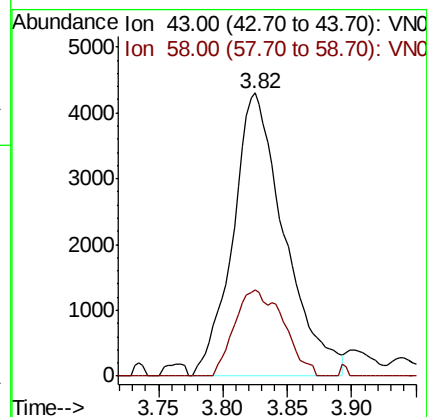
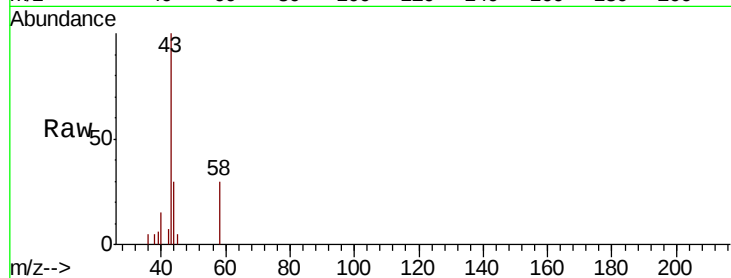
TRIPBLANK

Tot Ion: 43 Resp: 11989

Ion Ratio Lower Upper

43 100

58 30.4 25.8 38.8



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 852

Delta R.T. -0.00 min

Lab File: VN050358.D

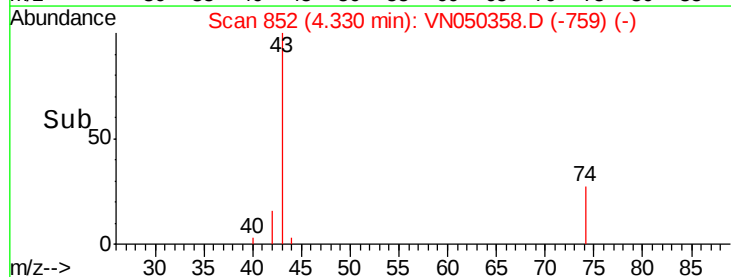
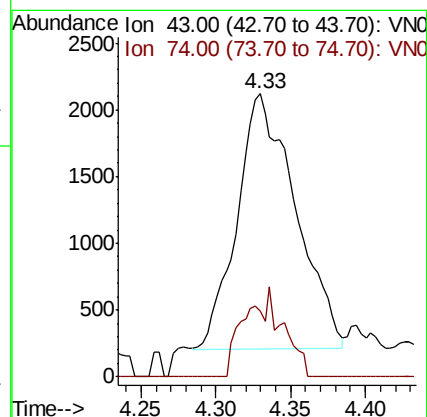
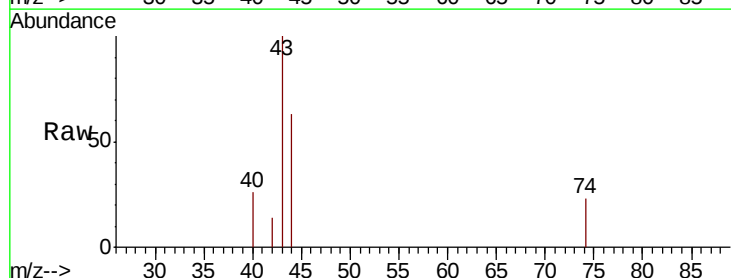
Acq: 4 Aug 2018 11:38

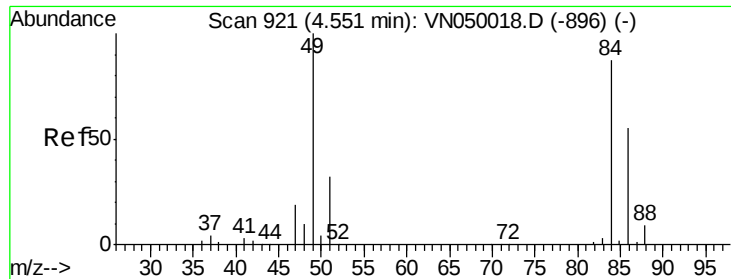
Tgt Ion: 43 Resp: 5204

Ion Ratio Lower Upper

43 100

74 12.7 19.2 28.8#

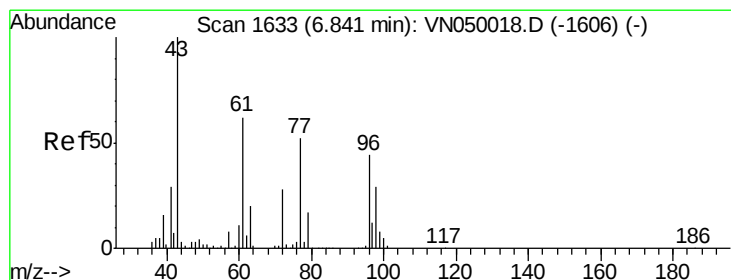
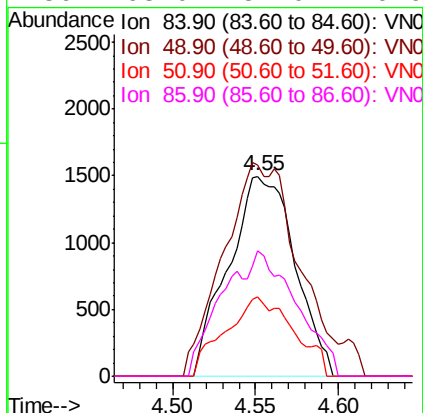
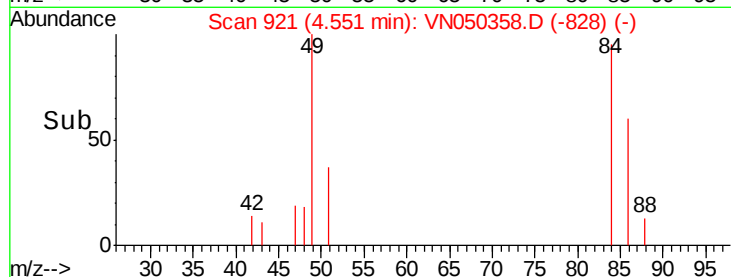
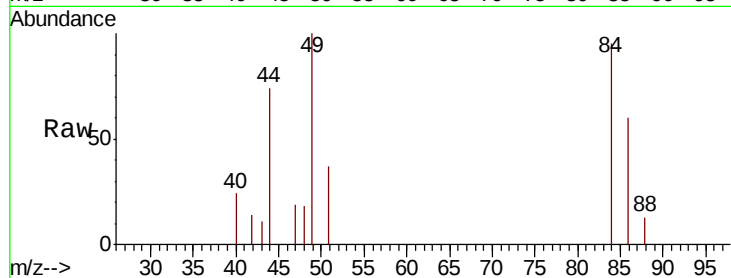




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050358.D
Acq: 4 Aug 2018 11:38

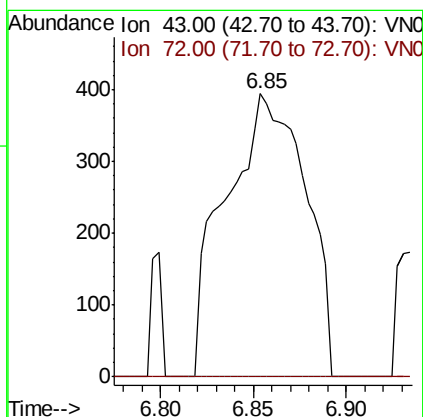
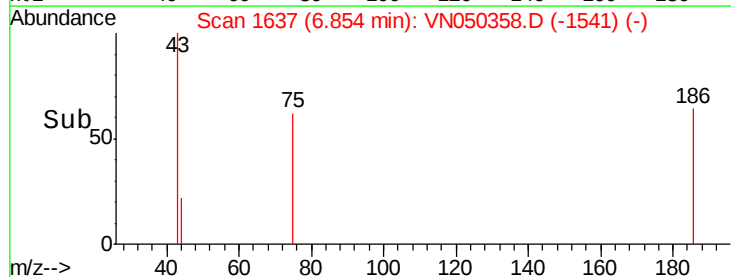
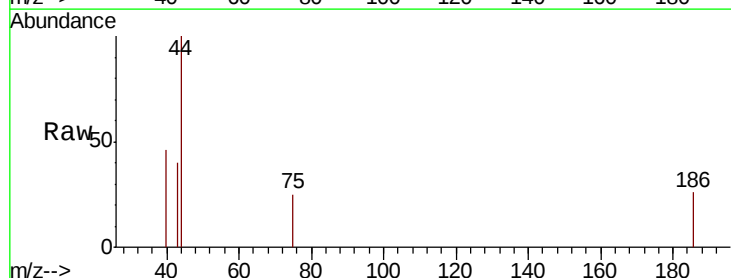
Instrument :
MSVOA_N
ClientSampleId :
TRIPBLANK

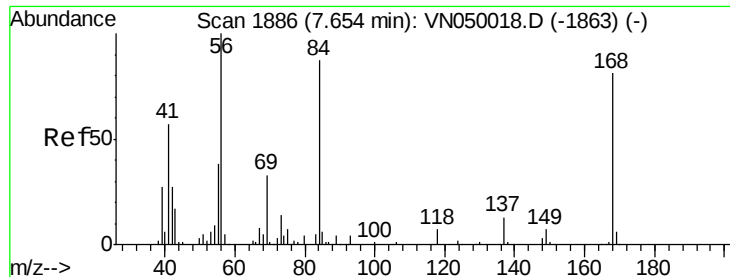
Tot Ion: 84 Resp: 4186
Ion Ratio Lower Upper
84 100
49 93.4 94.8 142.2#
51 39.5 28.3 42.5
86 63.0 51.0 76.6



#25
2-Butanone
Concen: 0.33 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.01 min
Lab File: VN050358.D
Acq: 4 Aug 2018 11:38

Tgt Ion: 43 Resp: 1189
Ion Ratio Lower Upper
43 100
72 0.0 21.5 32.3#





#31

Cyclohexane

Concen: 0.89 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. 0.01 min

Lab File: VN050358.D

Acq: 4 Aug 2018 11:38

Instrument :

MSVOA_N

ClientSampleId :

TRIPBLANK

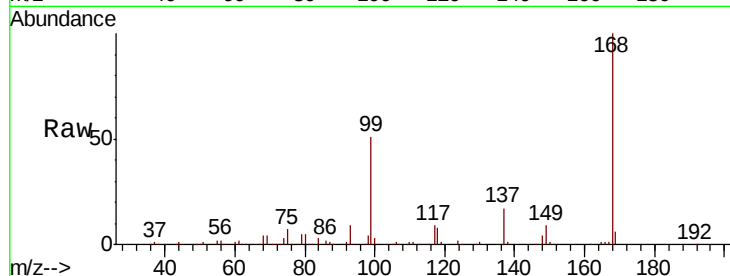
Tot Ion: 56 Resp: 12465

Ion Ratio Lower Upper

56 100

69 182.0 26.2 39.4#

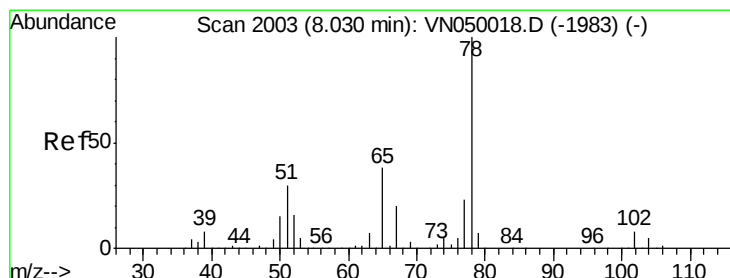
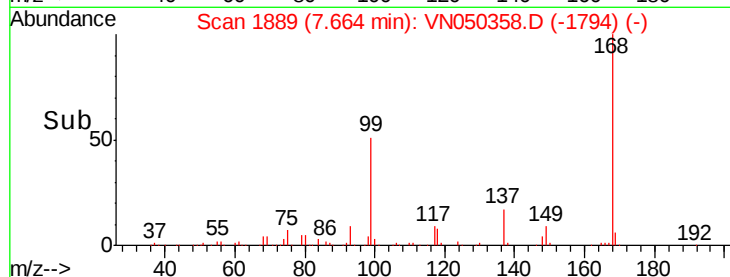
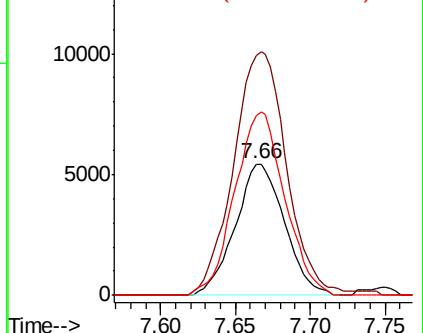
84 136.2 67.4 101.0#



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: 49.47 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050358.D

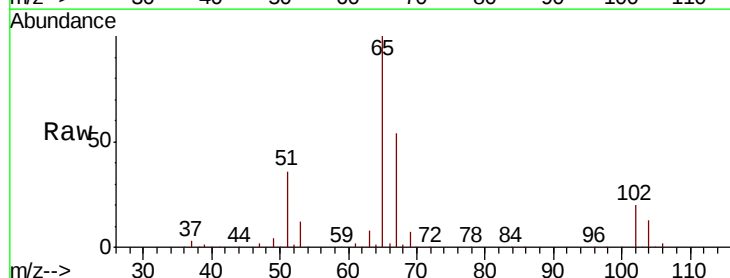
Acq: 4 Aug 2018 11:38

Tgt Ion: 65 Resp: 469680

Ion Ratio Lower Upper

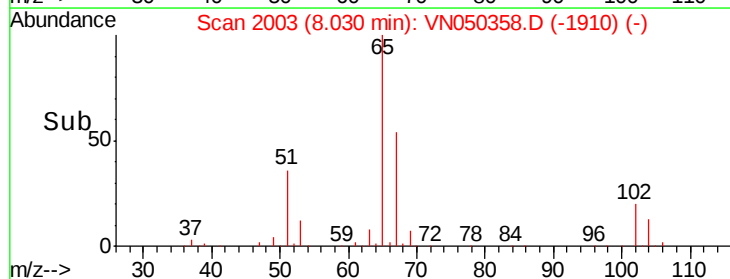
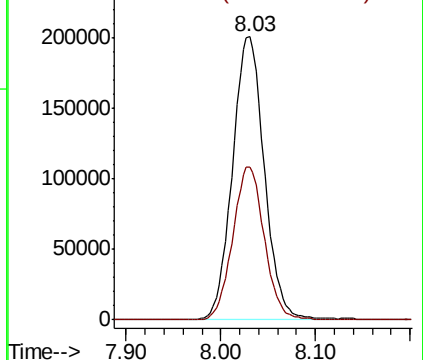
65 100

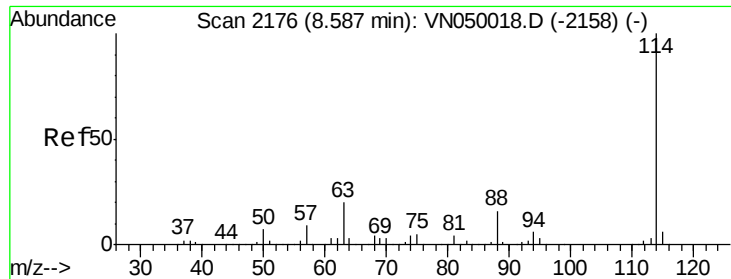
67 53.7 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

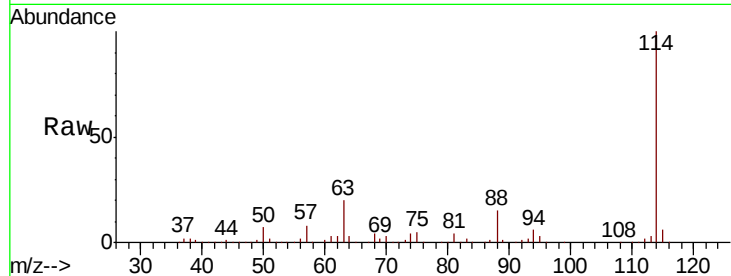




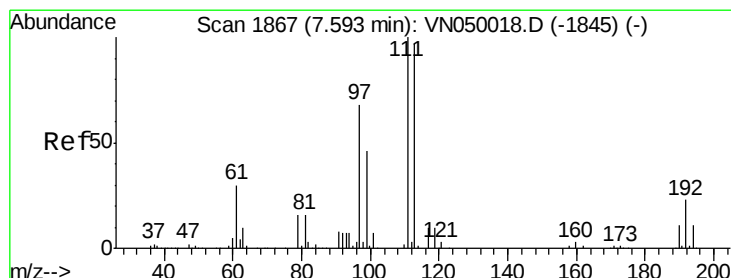
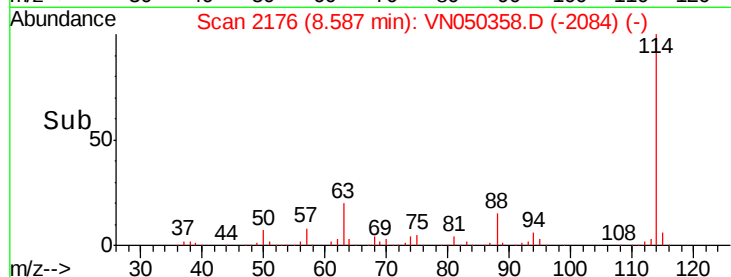
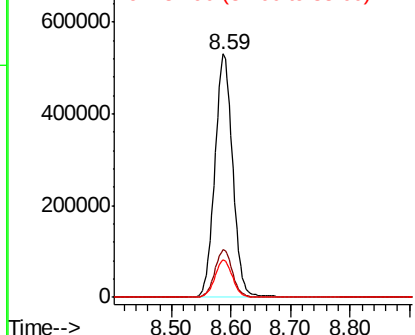
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050358.D
 Acq: 4 Aug 2018 11:38

Instrument :
 MSVOA_N
 ClientSampleId :
 TRIPBLANK

Tot Ion:114 Resp: 1100050
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 40.0
 88 15.4 0.0 31.2

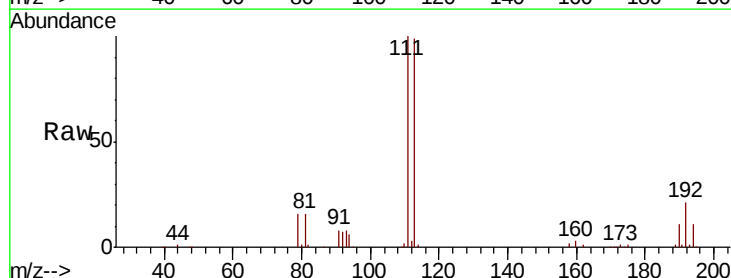


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

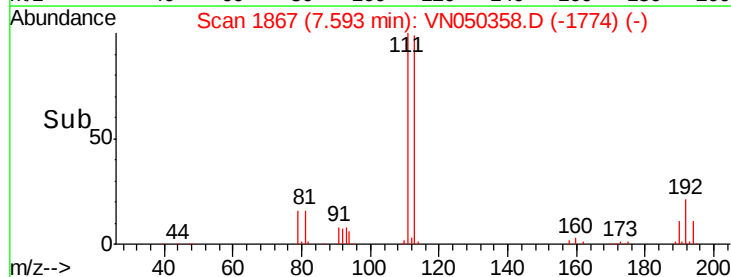
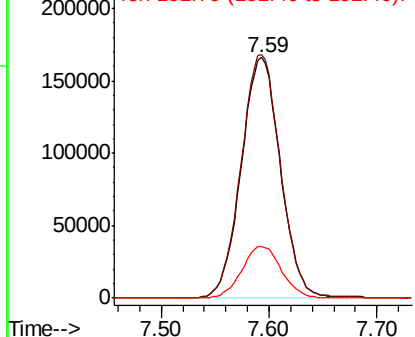


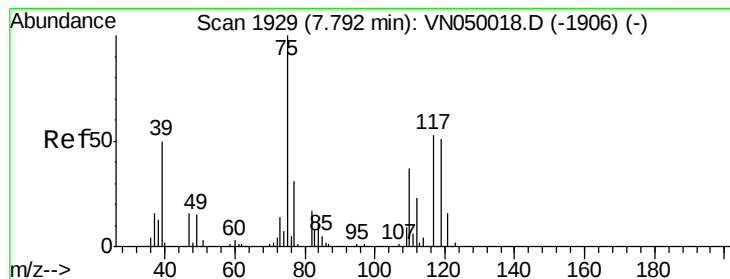
#35
 Dibromofluoromethane
 Concen: 46.55 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050358.D
 Acq: 4 Aug 2018 11:38

Tgt Ion:113 Resp: 418120
 Ion Ratio Lower Upper
 113 100
 111 102.2 80.7 121.1
 192 21.9 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: 3.82 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. -0.13 min

Lab File: VN050358.D

Acq: 4 Aug 2018 11:38

Instrument :

MSVOA_N

ClientSampled :

TRIPBLANK

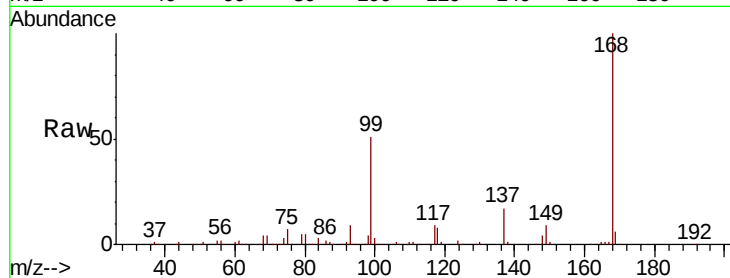
Tot Ion: 75 Resp: 47380

Ion Ratio Lower Upper

75 100

110 9.2 18.4 55.2#

77 0.0 25.3 37.9#



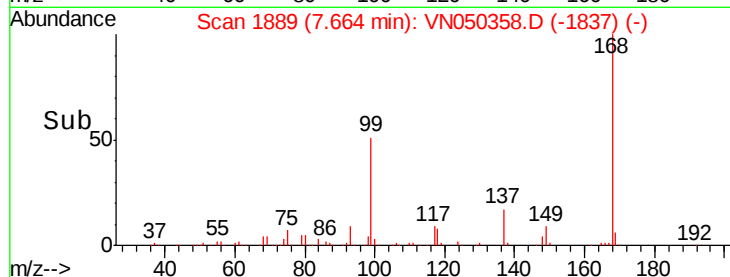
Abundance Ion 74.90 (74.60 to 75.60): VN050018.D (-1906) (-)

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

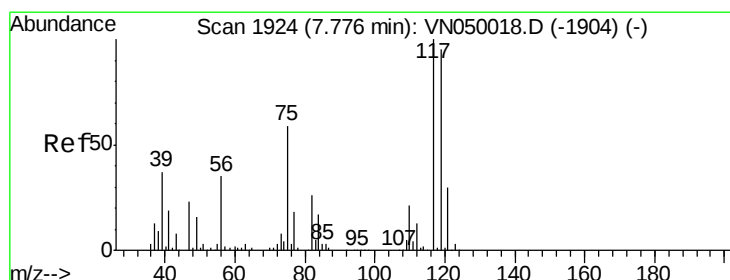
Ion 76.90 (76.60 to 77.60): VN050018.D (-1906) (-)

7.66

Time-->



Time-->



#38

Carbon Tetrachloride

Concen: 4.72 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN050358.D

Acq: 4 Aug 2018 11:38

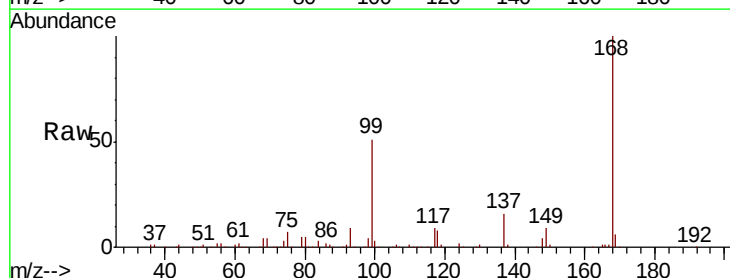
Tgt Ion: 117 Resp: 62115

Ion Ratio Lower Upper

117 100

119 5.9 77.4 116.0#

121 0.0 23.9 35.9#



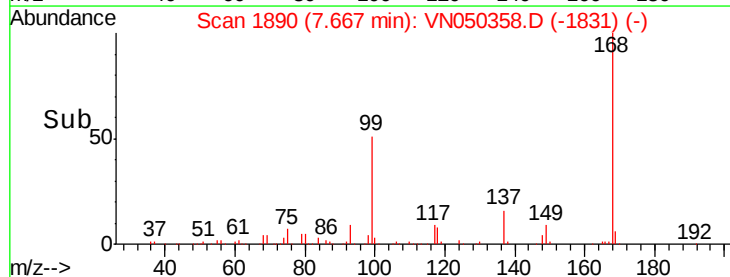
Abundance Ion 116.80 (116.50 to 117.50): VN050018.D (-1904) (-)

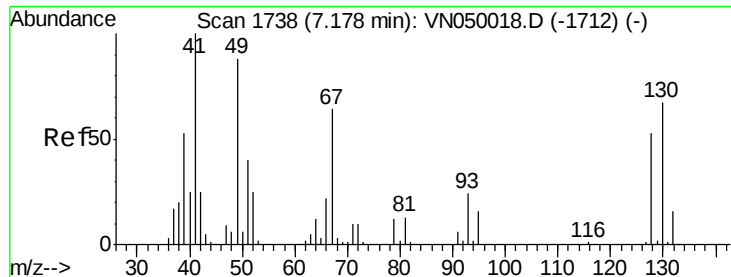
Ion 118.80 (118.50 to 119.50): VN050018.D (-1904) (-)

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

7.67

Time-->

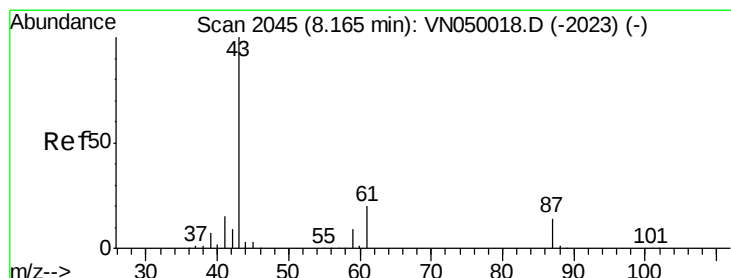
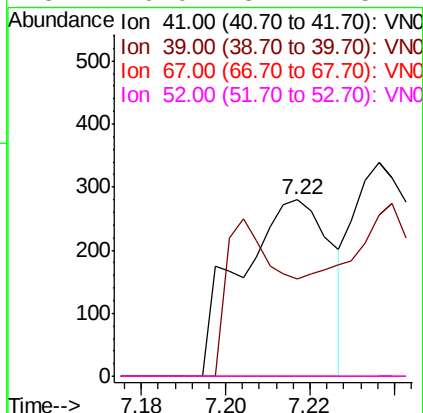
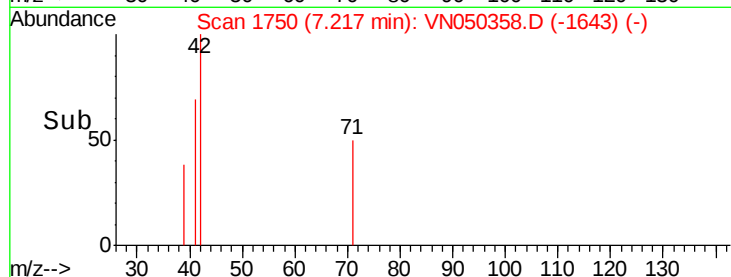
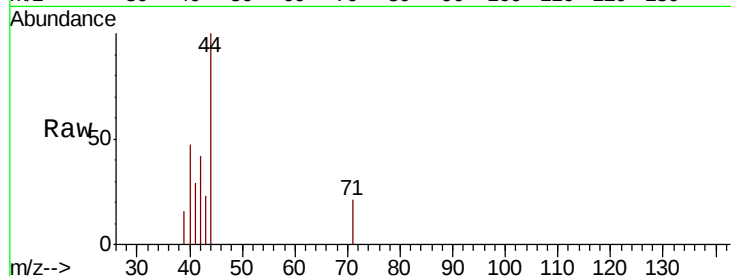




#41
Methacrylonitrile
Concen: 2.84 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. 0.04 min
Lab File: VN050358.D
Acq: 4 Aug 2018 11:38

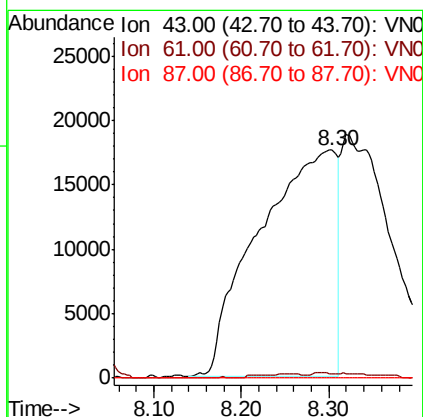
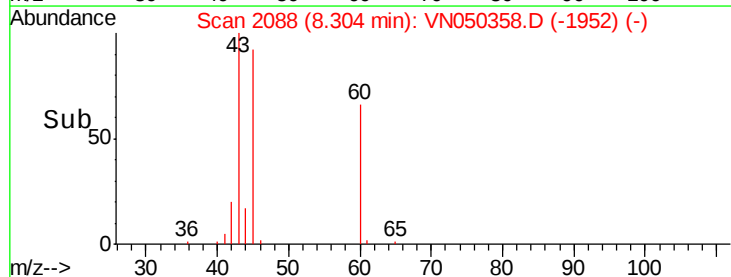
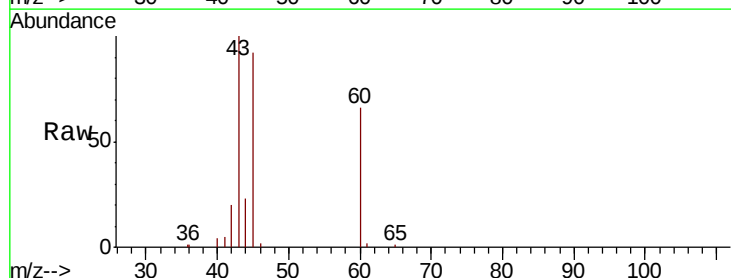
Instrument :
MSVOA_N
ClientSampled :
TRIPBLANK

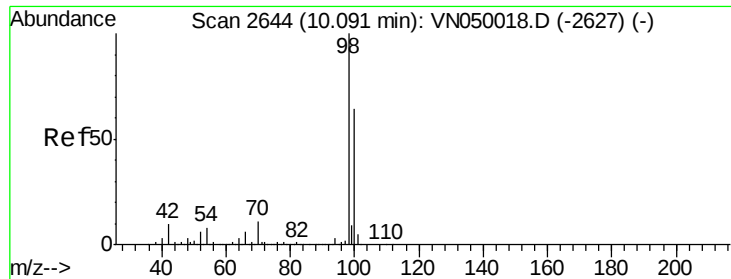
Tot Ion: 41 Resp: 416
Ion Ratio Lower Upper
41 100
39 54.6 55.8 83.6#
67 0.0 84.3 126.5#
52 0.0 34.2 51.2#



#43
Isopropyl Acetate
Concen: 5.63 ug/l
RT: 8.30 min Scan# 2088
Delta R.T. 0.14 min
Lab File: VN050358.D
Acq: 4 Aug 2018 11:38

Tgt Ion: 43 Resp: 108114
Ion Ratio Lower Upper
43 100
61 0.2 15.8 23.6#
87 0.0 10.3 15.5#





#50

Toluene-d8

Concen: 46.06 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VN050358.D

Acq: 4 Aug 2018 11:38

Instrument :

MSVOA_N

ClientSampleId :

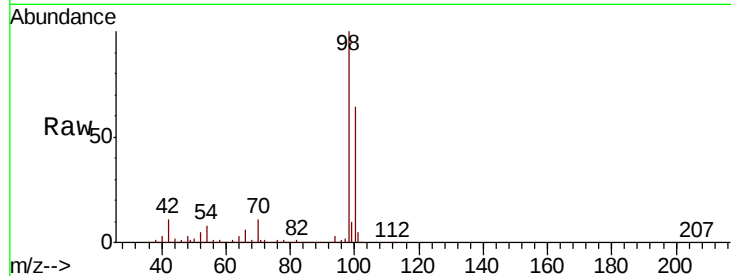
TRIPBLANK

Tot Ion: 98 Resp: 1520791

Ion Ratio Lower Upper

98 100

100 63.0 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN050018.D (-2627) (-)

Ion 100.00 (99.70 to 100.70): VN050018.D (-2627) (-)

10.09

800000

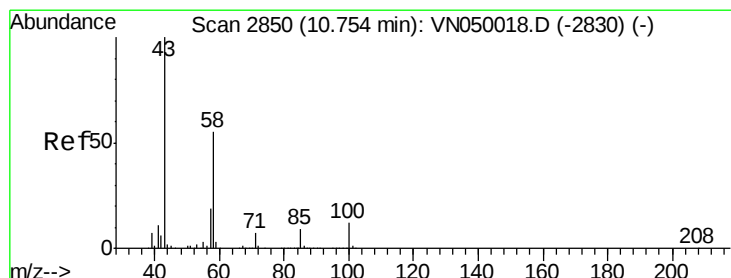
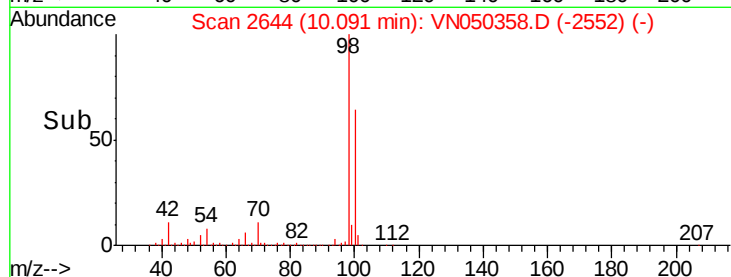
600000

400000

200000

0

Time-->



#59

2-Hexanone

Concen: 5.32 ug/l

RT: 10.75 min Scan# 2850

Delta R.T. 0.00 min

Lab File: VN050358.D

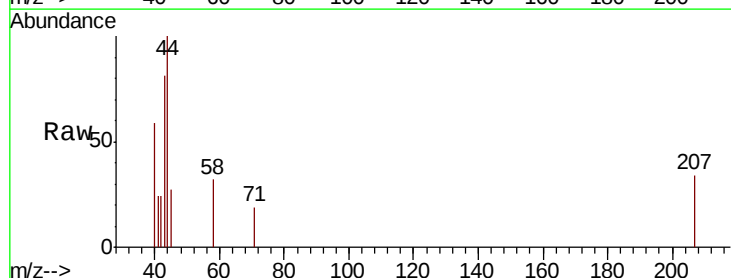
Acq: 4 Aug 2018 11:38

Tgt Ion: 43 Resp: 903

Ion Ratio Lower Upper

43 100

58 35.0 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) (-)

10.75

800

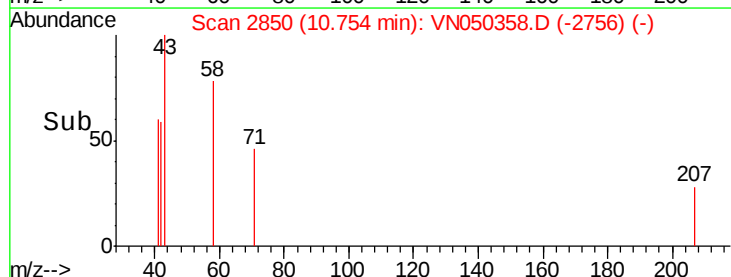
600

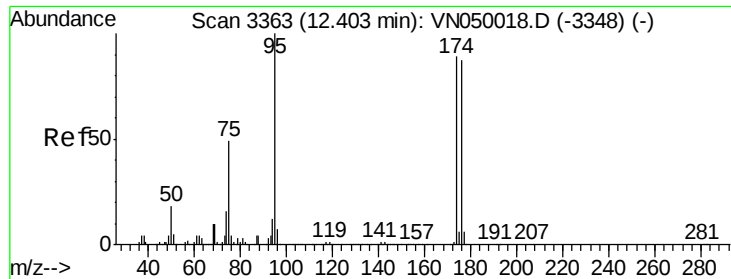
400

200

0

Time-->





#62

4-Bromofluorobenzene

Concen: 39.23 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050358.D

Acq: 4 Aug 2018 11:38

Instrument :

MSVOA_N

ClientSampleId :

TRIPBLANK

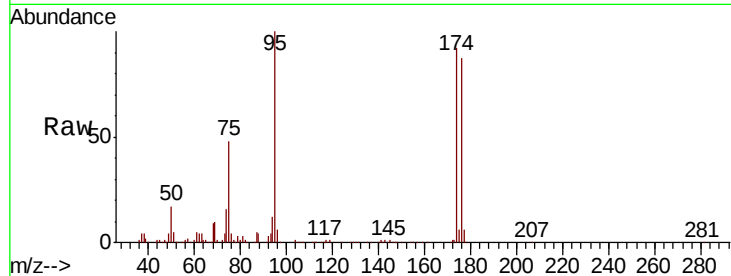
Tot Ion: 95 Resp: 426495

Ion Ratio Lower Upper

95 100

174 91.2 0.0 178.2

176 86.7 0.0 173.4

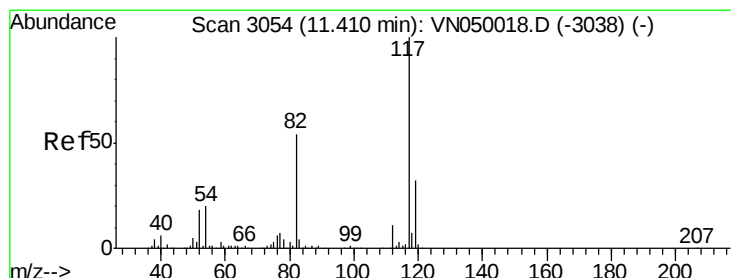
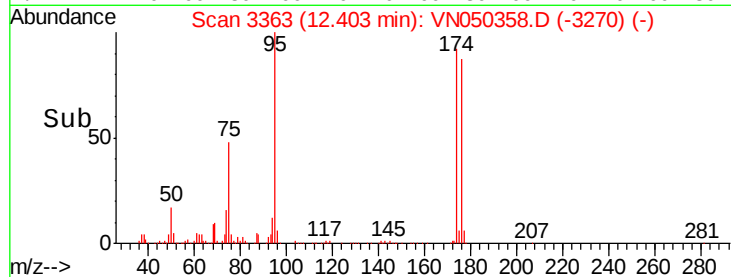


Abundance Ion 94.90 (94.60 to 95.60): VN050018.D (-3348) (-)

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

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

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN050358.D

Acq: 4 Aug 2018 11:38

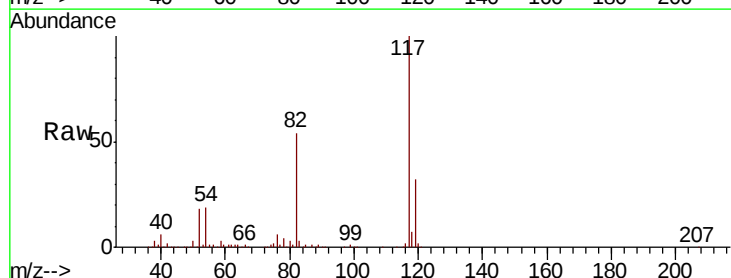
Tgt Ion: 117 Resp: 932073

Ion Ratio Lower Upper

117 100

82 53.5 43.7 65.5

119 32.2 26.1 39.1

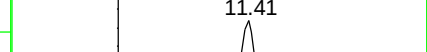
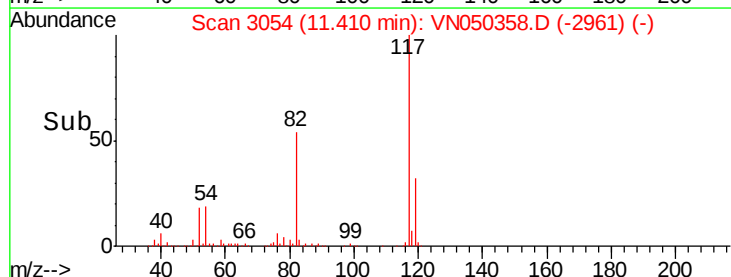


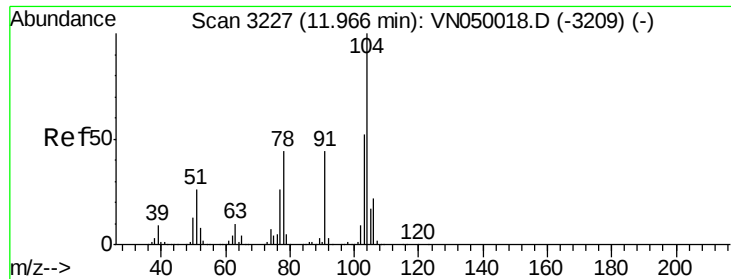
Abundance Ion 116.90 (116.60 to 117.60): VN050018.D (-3038) (-)

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

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

Time-->

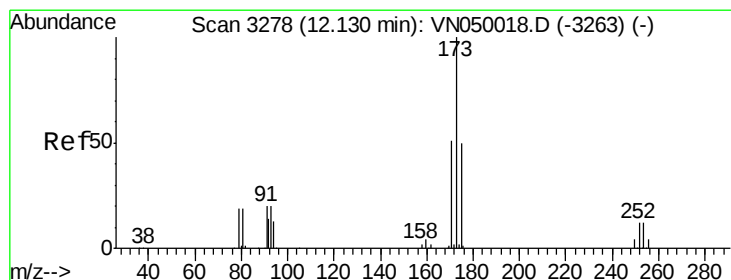
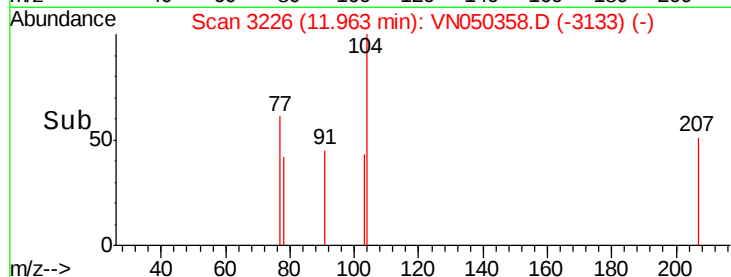
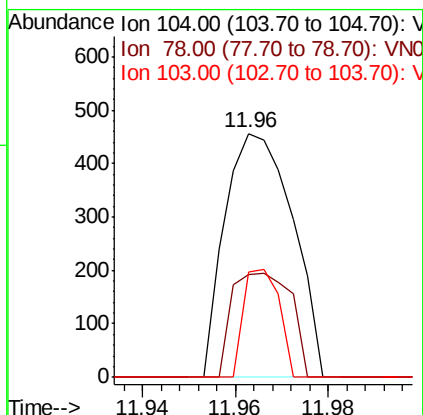
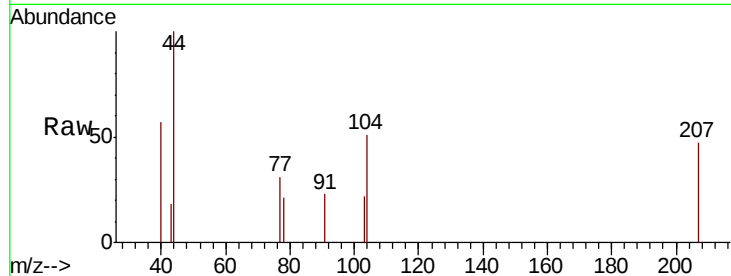




#70
Stvrene
Concen: 0.94 ug/l
RT: 11.96 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VN050358.D
Acq: 4 Aug 2018 11:38

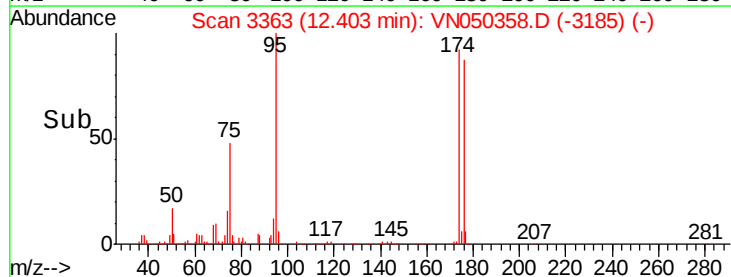
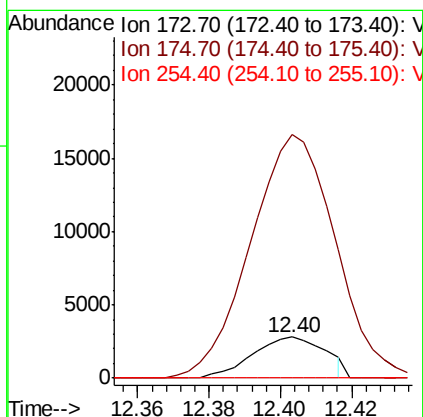
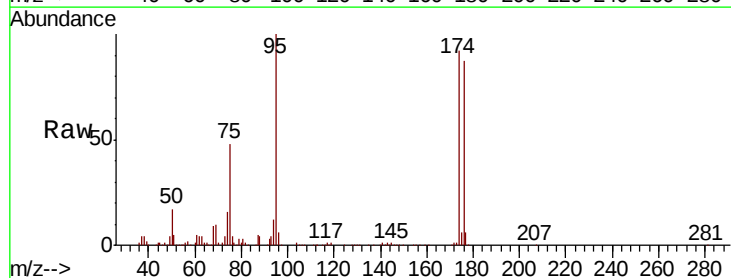
Instrument :
MSVOA_N
ClientSampled :
TRIPBLANK

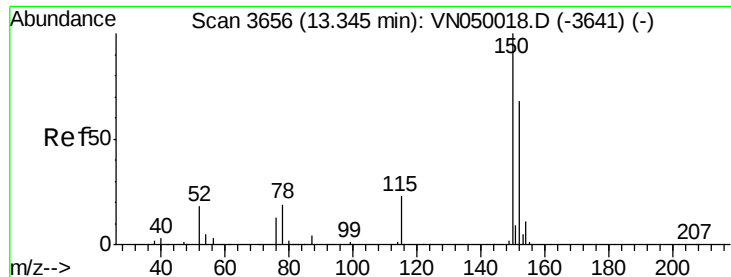
Tot Ion:104 Resp: 463
Ion Ratio Lower Upper
104 100
78 37.1 39.3 58.9#
103 23.1 45.0 67.6#



#71
Bromoform
Concen: 0.60 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.27 min
Lab File: VN050358.D
Acq: 4 Aug 2018 11:38

Tgt Ion:173 Resp: 3963
Ion Ratio Lower Upper
173 100
175 624.8 24.1 72.2#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050358.D

Acq: 4 Aug 2018 11:38

Instrument :

MSVOA_N

ClientSampled :

TRIPBLANK

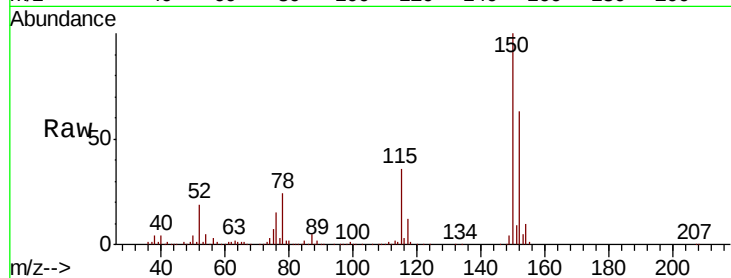
Tot Ion:152 Resp: 359169

Ion Ratio Lower Upper

152 100

115 56.9 27.8 83.3

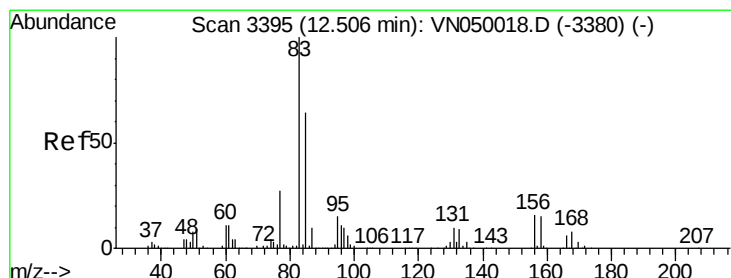
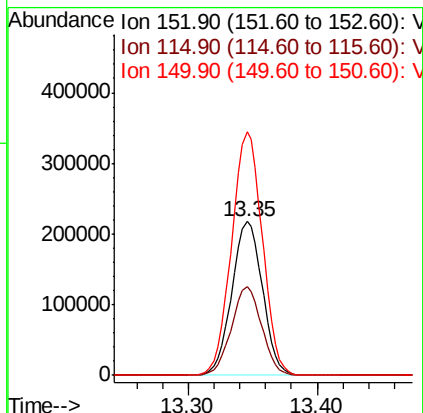
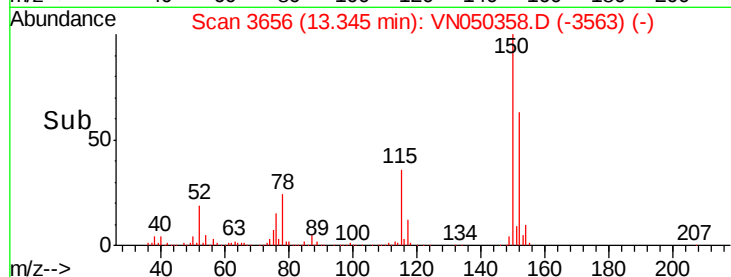
150 158.5 0.0 348.6



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: 12.50 min Scan# 3394

Delta R.T. -0.00 min

Lab File: VN050358.D

Acq: 4 Aug 2018 11:38

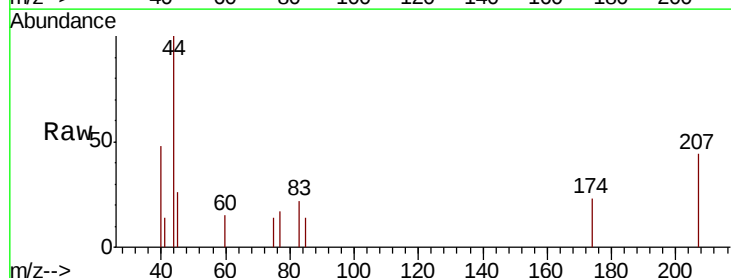
Tgt Ion: 83 Resp: 162

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

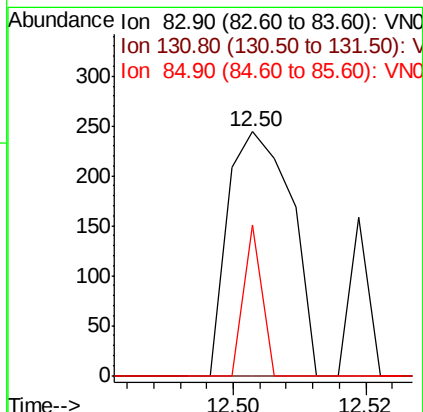
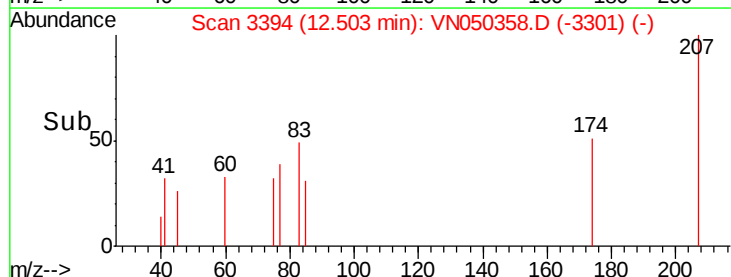
85 17.9 32.3 96.8#

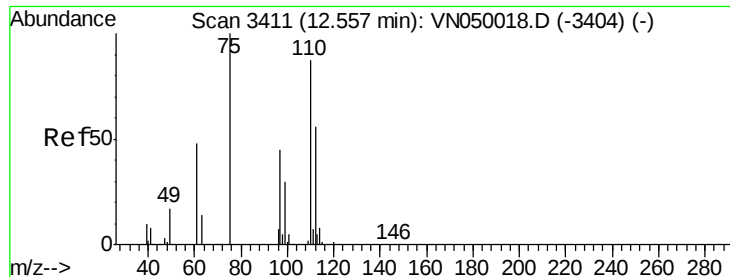


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 30.92 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050358.D

Acq: 4 Aug 2018 11:38

Instrument :

MSVOA_N

ClientSampleId :

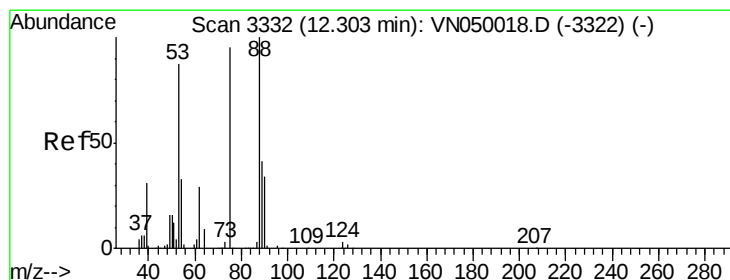
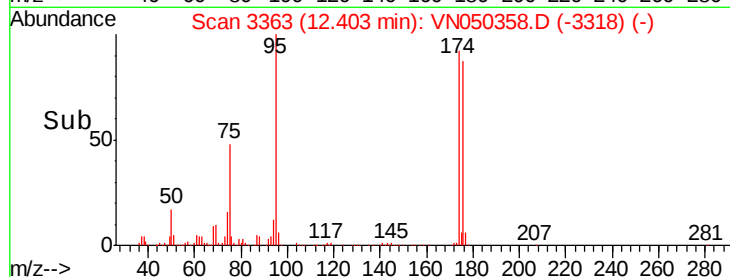
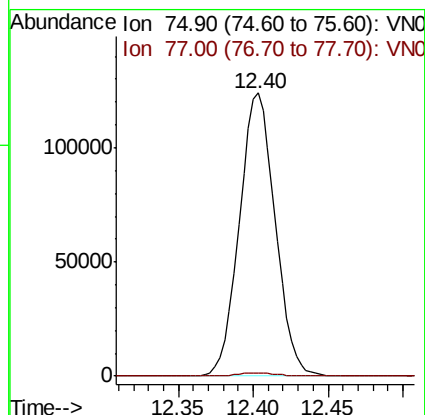
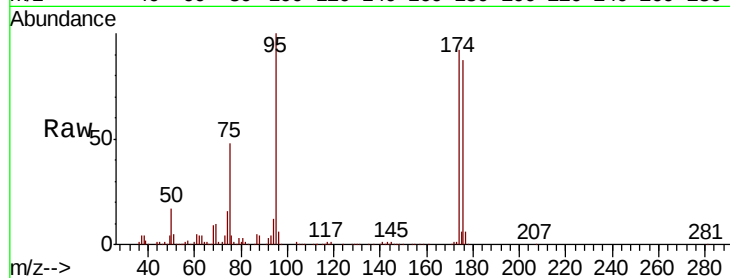
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Tot Ion: 75 Resp: 206382

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 98.07 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050358.D

Acq: 4 Aug 2018 11:38

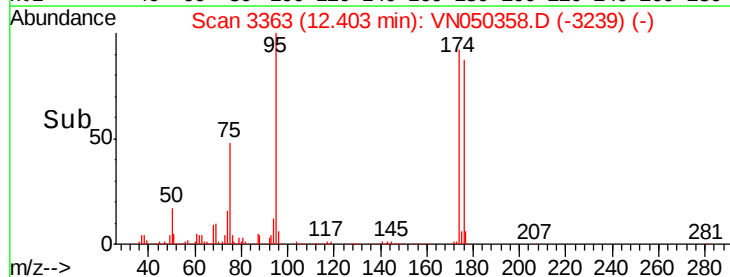
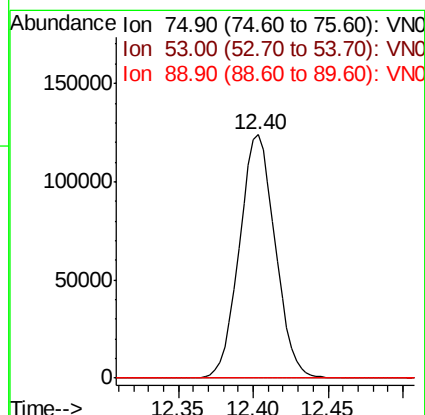
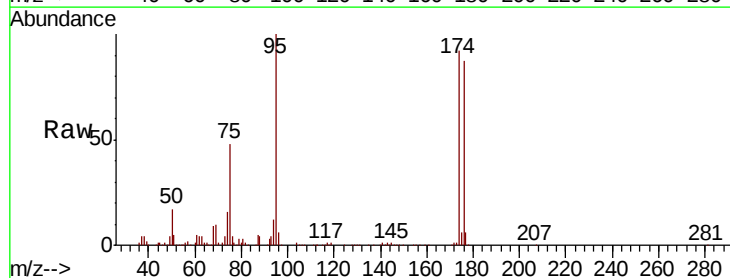
Tgt Ion: 75 Resp: 206382

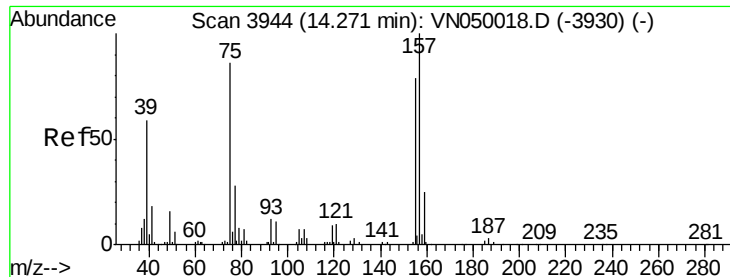
Ion Ratio Lower Upper

75 100

53 0.3 73.5 110.3#

89 0.0 36.0 54.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.27 min Scan# 3945

Delta R.T. 0.00 min

Lab File: VN050358.D

Acq: 4 Aug 2018 11:38

Instrument :

MSVOA_N

ClientSampleId :

TRIPBLANK

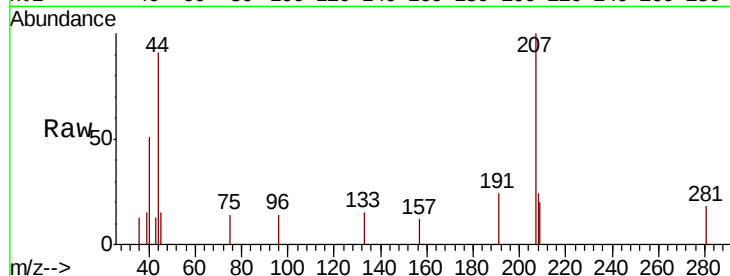
Tot Ion: 75 Resp: 64

Ion Ratio Lower Upper

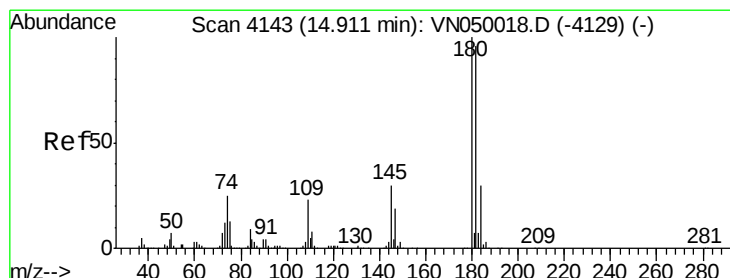
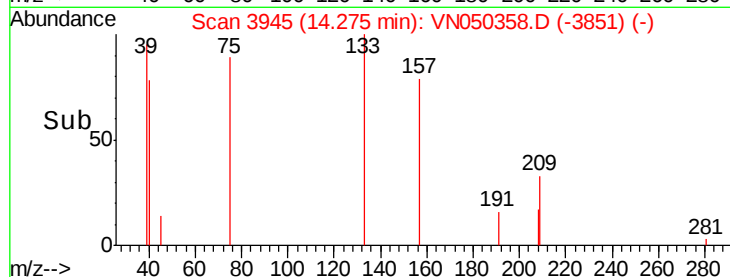
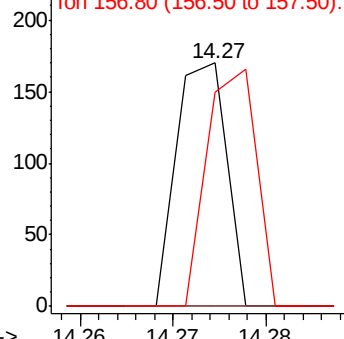
75 100

155 0.0 44.8 134.4#

157 95.3 57.2 171.6



Abundance Ion 74.90 (74.60 to 75.60): VN050018.D (-3930) (-)



#93

1,2,4-Trichlorobenzene

Concen: 3.47 ug/l

RT: 14.91 min Scan# 4144

Delta R.T. 0.00 min

Lab File: VN050358.D

Acq: 4 Aug 2018 11:38

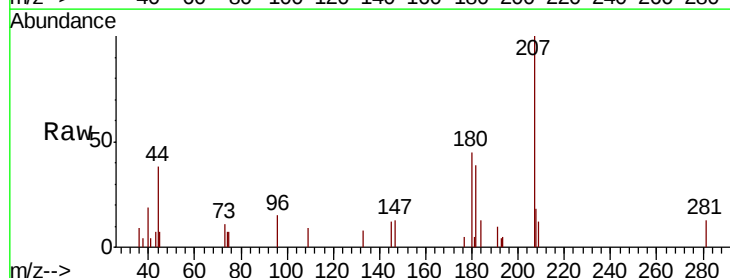
Tgt Ion: 180 Resp: 2818

Ion Ratio Lower Upper

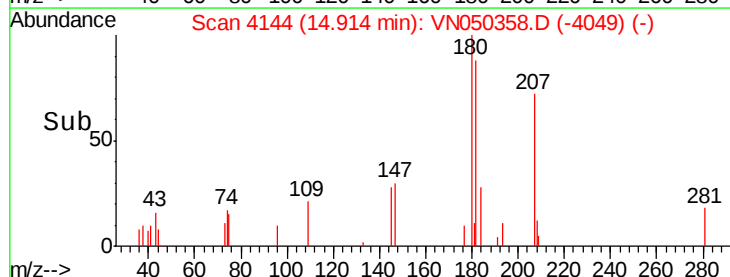
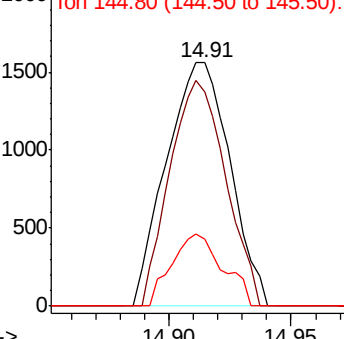
180 100

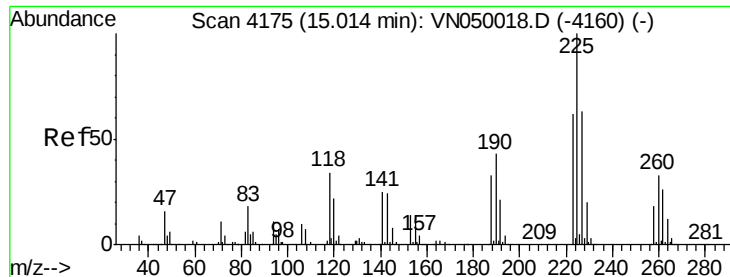
182 81.5 46.7 140.1

145 23.8 13.8 41.4



Abundance Ion 179.80 (179.50 to 180.50): VN050018.D (-4129) (-)





#94

Hexachlorobutadiene

Concen: 0.31 ug/l

RT: 15.01 min Scan# 4174

Delta R.T. -0.00 min

Lab File: VN050358.D

Acq: 4 Aug 2018 11:38

Instrument :

MSVOA_N

ClientSampled :

TRIPBLANK

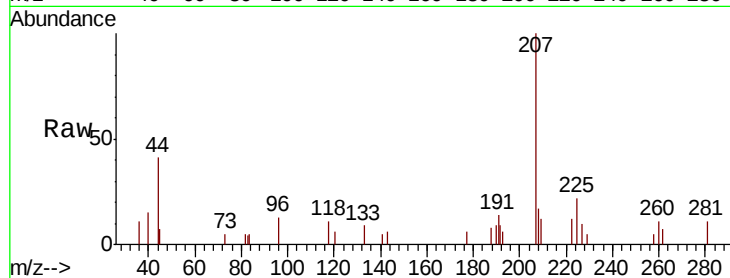
Tot Ion:225 Resp: 1257

Ion Ratio Lower Upper

225 100

223 40.3 31.4 94.2

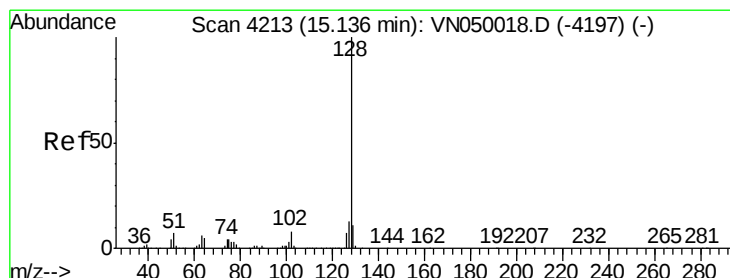
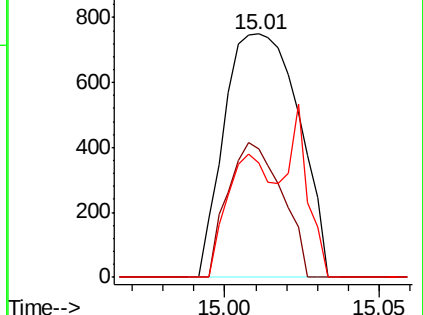
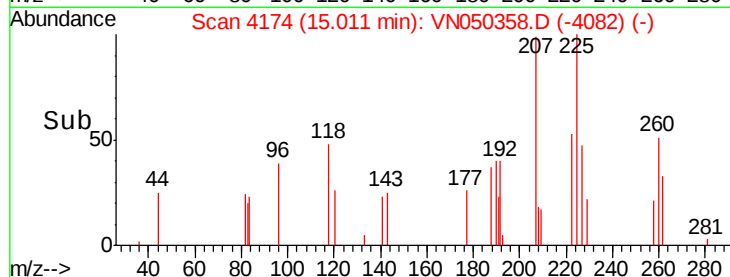
227 31.9 32.1 96.5#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 4.80 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050358.D

Acq: 4 Aug 2018 11:38

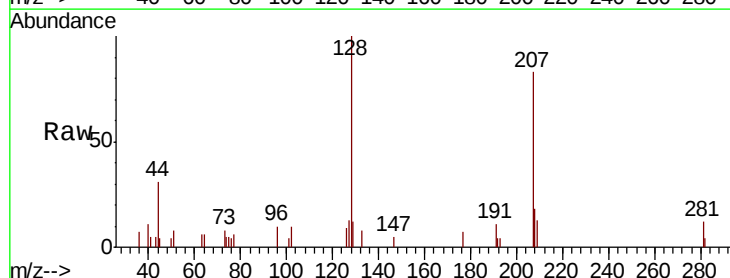
Tgt Ion:128 Resp: 6881

Ion Ratio Lower Upper

128 100

127 13.4 10.4 15.6

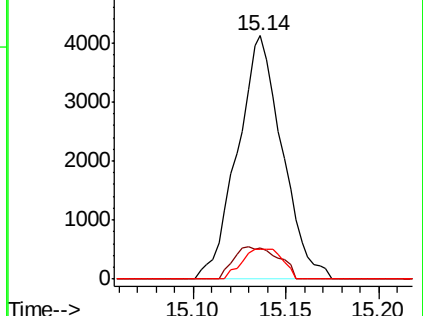
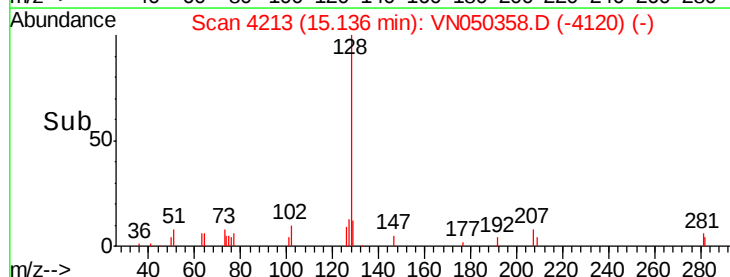
129 11.1 8.8 13.2

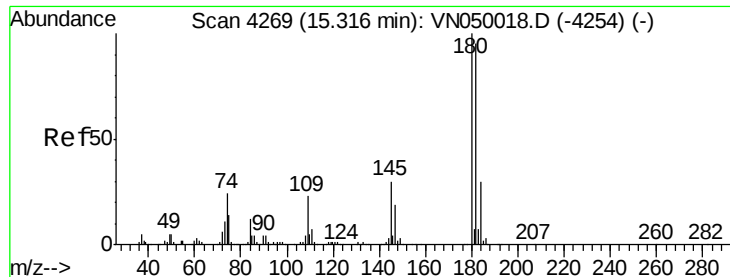


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 2.56 ug/l
 RT: 15.32 min Scan# 4270
 Delta R.T. 0.00 min
 Lab File: VN050358.D
 Acq: 4 Aug 2018 11:38

Instrument :
 MSVOA_N
 ClientSampleId :
 TRIPBLANK

Tot Ion	Ratio	Lower	Upper
180	100		
182	114.4	48.1	144.4
145	34.7	15.3	45.9

