

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080818\
 Data File : VN050469.D
 Acq On : 8 Aug 2018 19:22
 Operator : MD\SY
 Sample : J4380-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-41

Quant Time: Aug 09 00:59:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 05:22:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	825454	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1284980	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1107972	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	440758	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	529302	47.99	ug/l	0.00
Spiked Amount			Recovery	=	95.98%	
35) Dibromofluoromethane	7.60	113	487397	47.27	ug/l	0.00
Spiked Amount			Recovery	=	94.54%	
50) Toluene-d8	10.09	98	1766377	45.56	ug/l	0.00
Spiked Amount			Recovery	=	91.12%	
62) 4-Bromofluorobenzene	12.40	95	523054	39.59	ug/l	0.00
Spiked Amount			Recovery	=	79.18%	

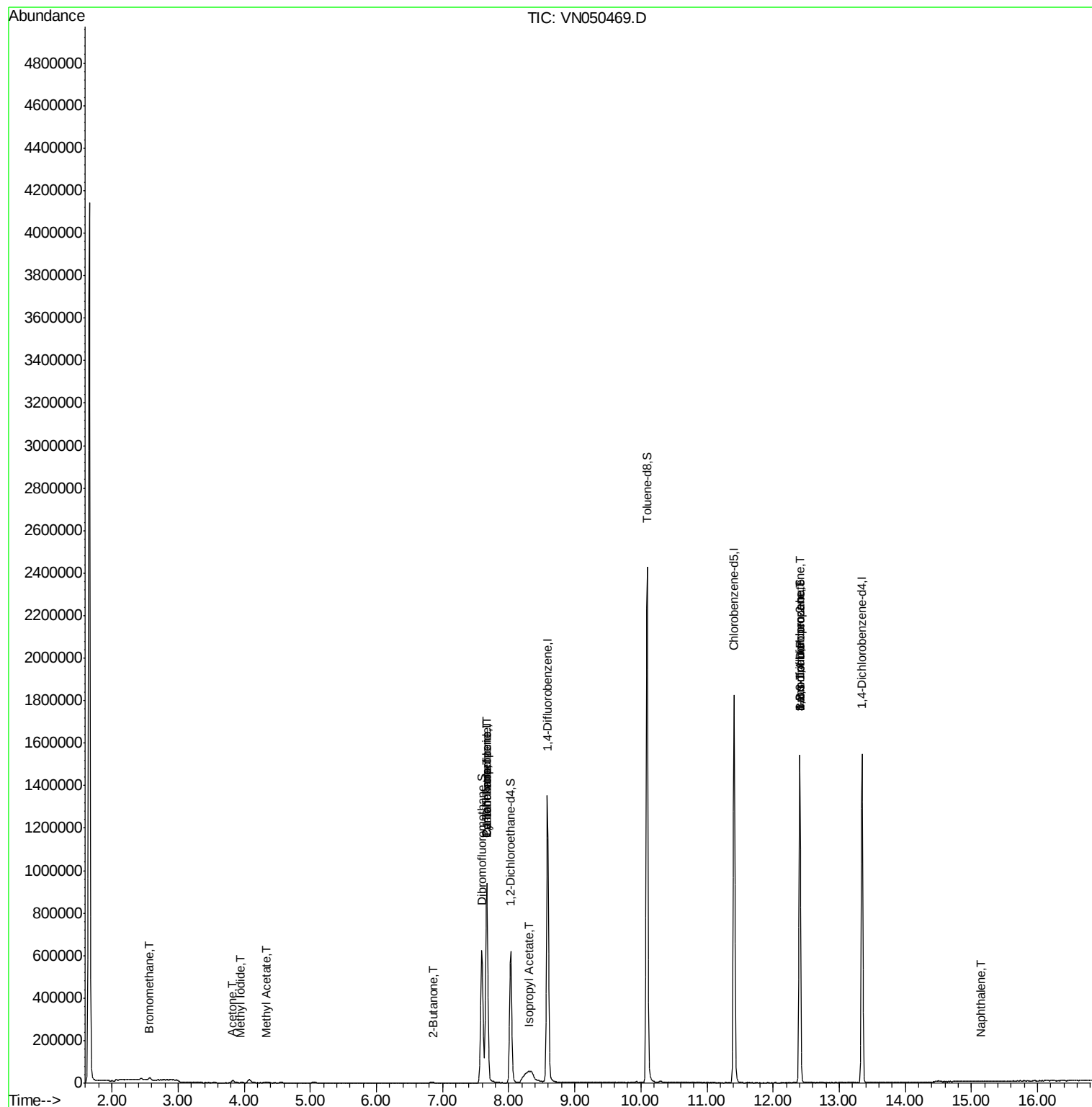
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	5317	Below Cal		92
5) Bromomethane	2.57	94	4988	1.03 ug/l		88
10) Methyl Iodide	3.95	142	1450	0.35 ug/l	#	65
16) Acetone	3.82	43	19998	5.73 ug/l		99
18) Methyl Acetate	4.34	43	5093	0.40 ug/l		95
20) Methylene Chloride	4.55	84	1230	Below Cal	#	77
25) 2-Butanone	6.87	43	1152	0.21 ug/l	#	48
31) Cyclohexane	7.67	56	13971	0.26 ug/l	#	1
36) 1,1-Dichloropropene	7.67	75	56013	3.97 ug/l	#	48
38) Carbon Tetrachloride	7.67	117	72206	4.90 ug/l	#	16
43) Isopropyl Acetate	8.30	43	99581	5.67 ug/l	#	61
71) Bromoform	12.40	173	3730	0.50 ug/l	#	1
76) 1,2,3-Trichloropropane	12.40	75	251067	31.47 ug/l	#	100
81) trans-1,4-Dichloro-2-buten	12.40	75	251067	110.57 ug/l	#	13
95) Naphthalene	15.14	128	490	3.64 ug/l	#	69

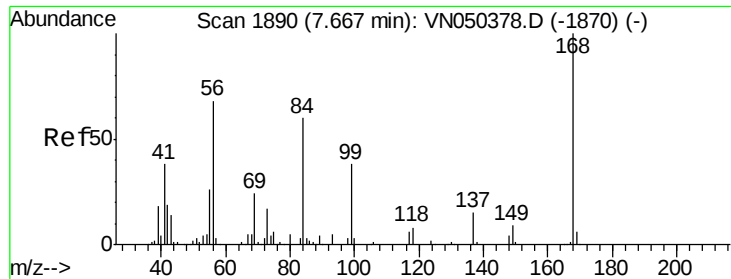
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050469.D

Acq: 8 Aug 2018 19:22

Instrument :

MSVOA_N

ClientSampled :

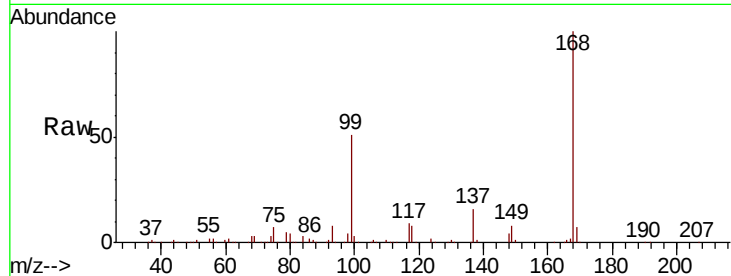
MW-41

Tot Ion:168 Resp: 825454

Ion Ratio Lower Upper

168 100

99 51.3 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

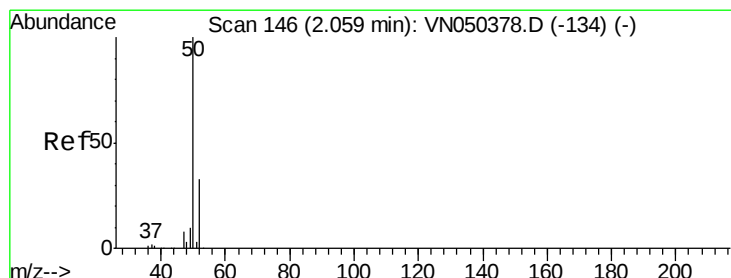
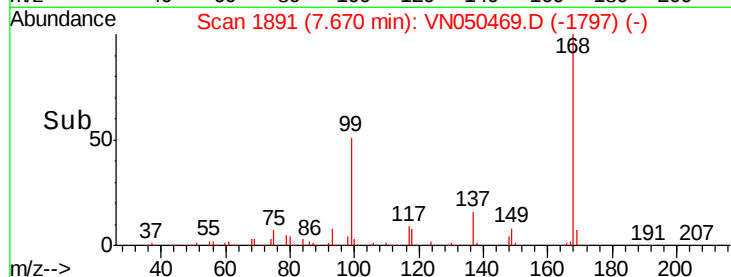
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050469.D

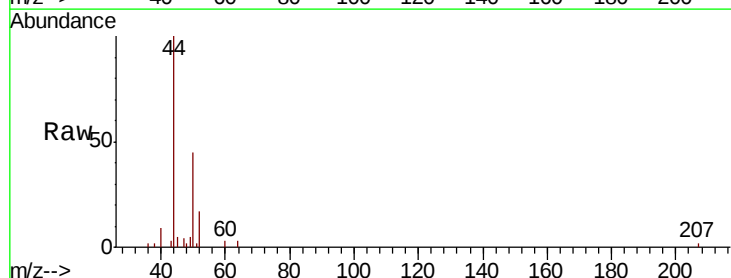
Acq: 8 Aug 2018 19:22

Tgt Ion: 50 Resp: 5317

Ion Ratio Lower Upper

50 100

52 37.0 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

4000

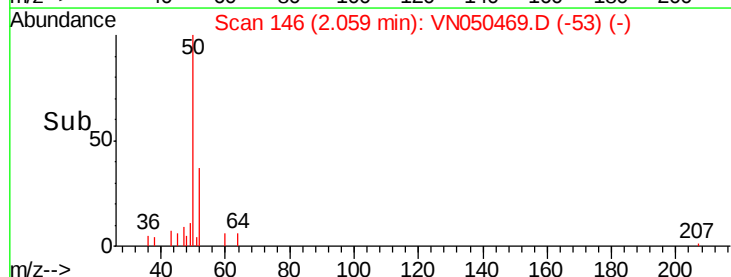
3000

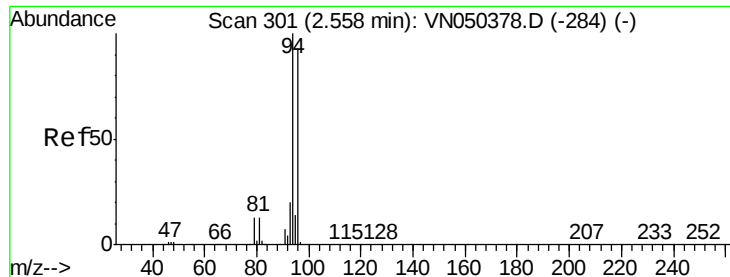
2000

1000

0

Time-->





#5

Bromomethane

Concen: 1.03 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050469.D

Acq: 8 Aug 2018 19:22

Instrument :

MSVOA_N

ClientSampled :

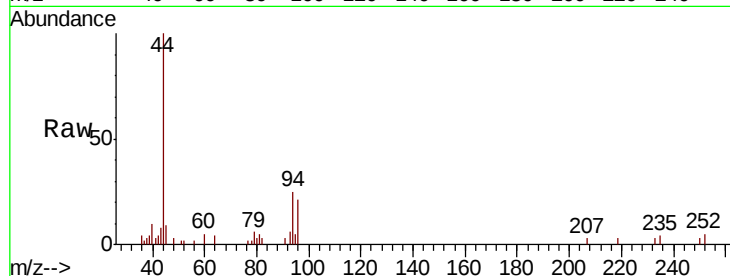
MW-41

Tot Ion: 94 Resp: 4988

Ion Ratio Lower Upper

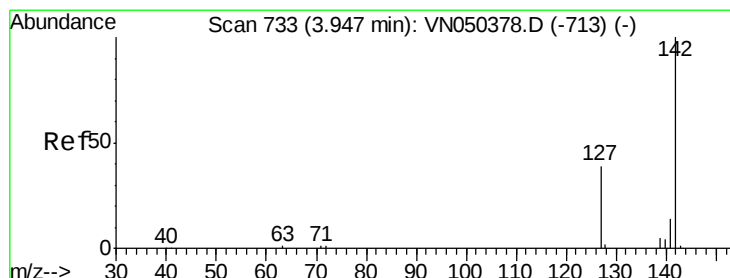
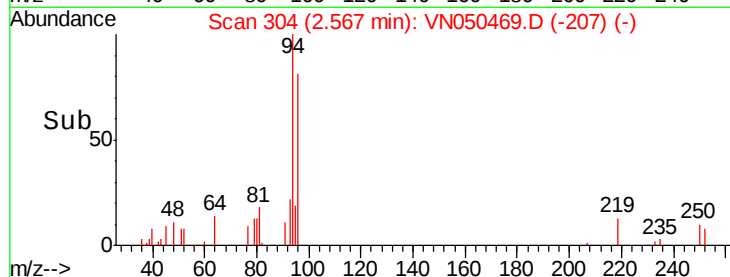
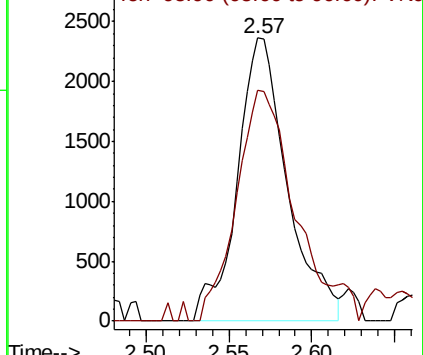
94 100

96 81.5 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#10

Methyl Iodide

Concen: 0.35 ug/l

RT: 3.95 min Scan# 734

Delta R.T. 0.00 min

Lab File: VN050469.D

Acq: 8 Aug 2018 19:22

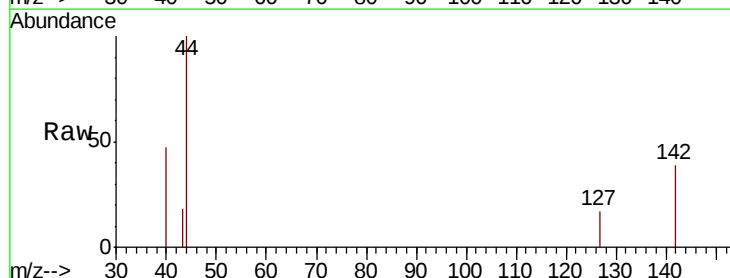
Tgt Ion: 142 Resp: 1450

Ion Ratio Lower Upper

142 100

127 19.7 33.4 50.2#

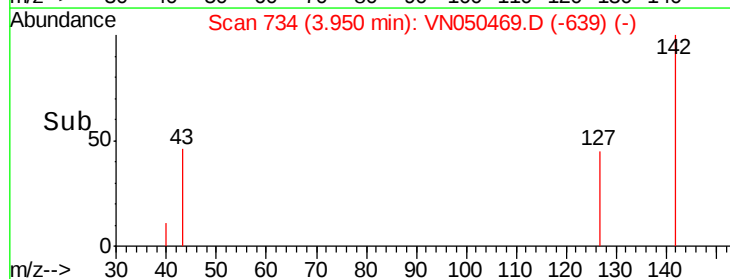
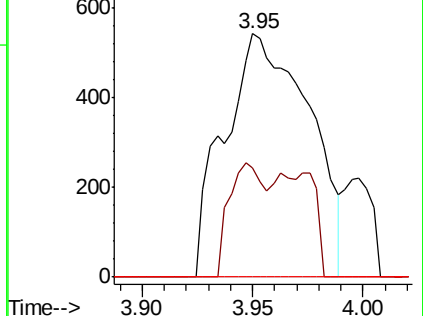
141 0.0 11.6 17.4#

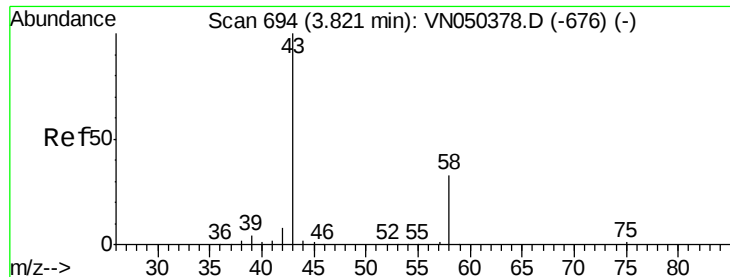


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#16

Acetone

Concen: 5.73 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN050469.D

Acq: 8 Aug 2018 19:22

Instrument :

MSVOA_N

ClientSampled :

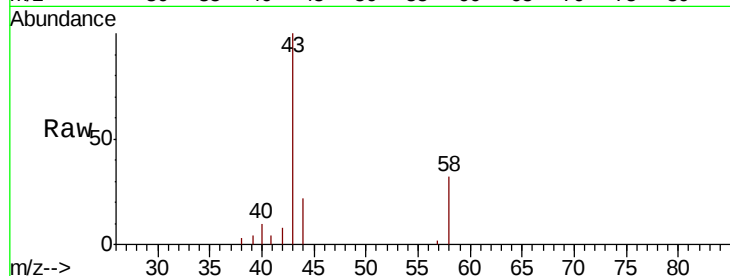
MW-41

Tot Ion: 43 Resp: 19998

Ion Ratio Lower Upper

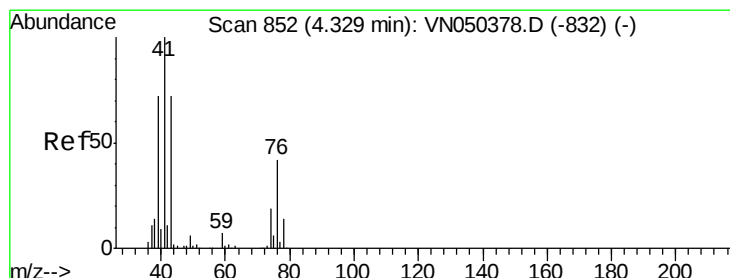
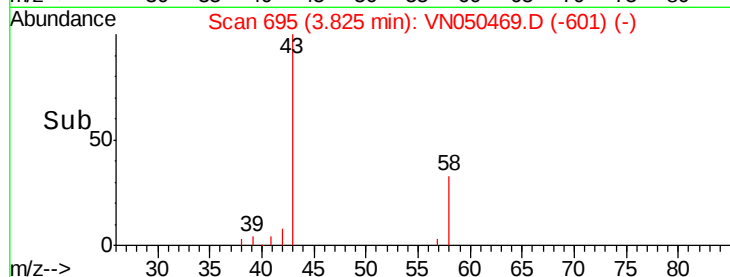
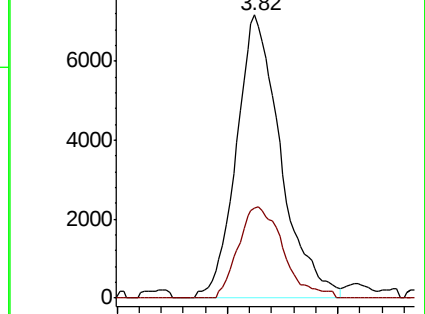
43 100

58 31.9 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN050378.D (-676) (-)

Ion 58.00 (57.70 to 58.70): VN050378.D (-676) (-)



#18

Methyl Acetate

Concen: 0.40 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN050469.D

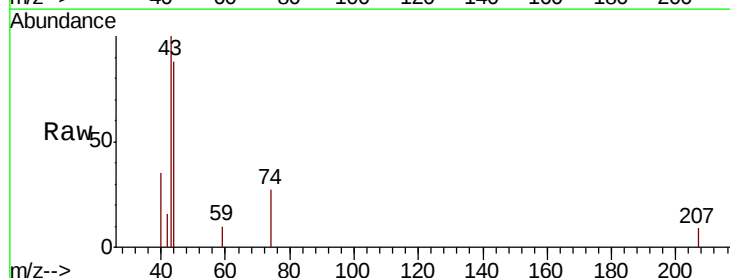
Acq: 8 Aug 2018 19:22

Tgt Ion: 43 Resp: 5093

Ion Ratio Lower Upper

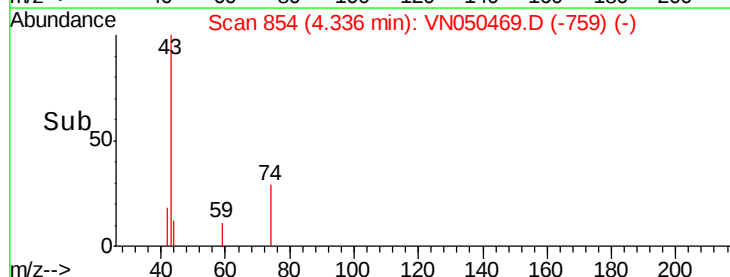
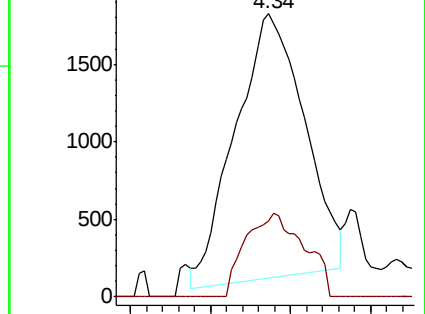
43 100

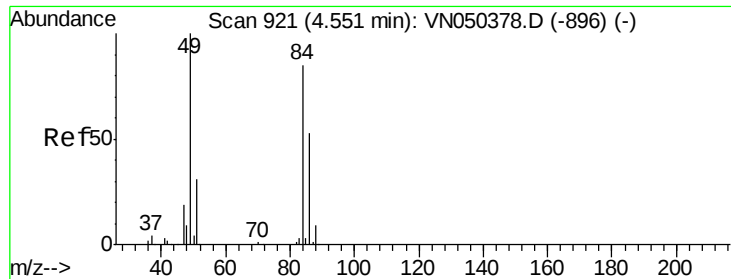
74 26.6 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN050378.D (-832) (-)

Ion 74.00 (73.70 to 74.70): VN050378.D (-832) (-)

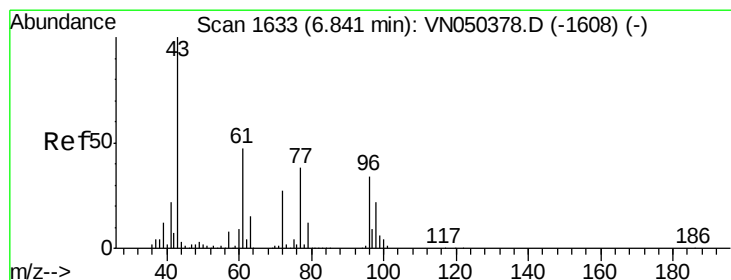
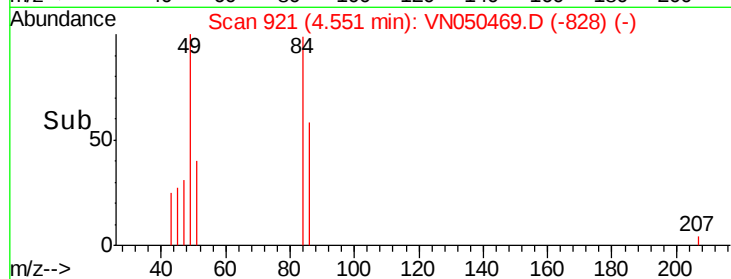
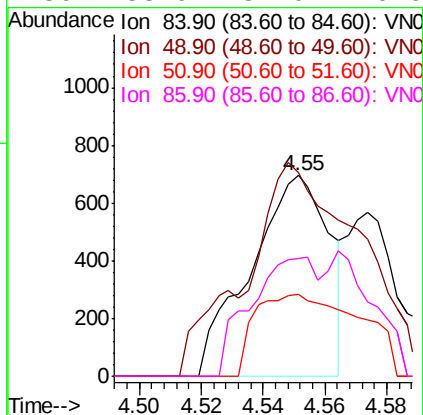
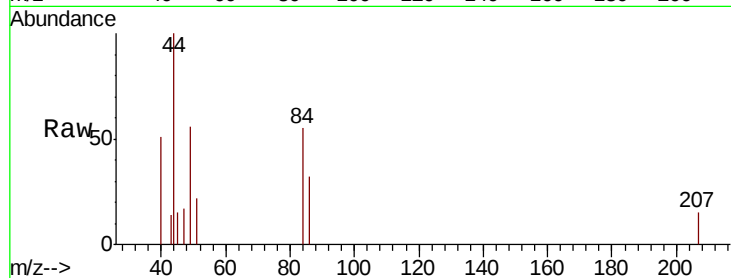




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050469.D
Acq: 8 Aug 2018 19:22

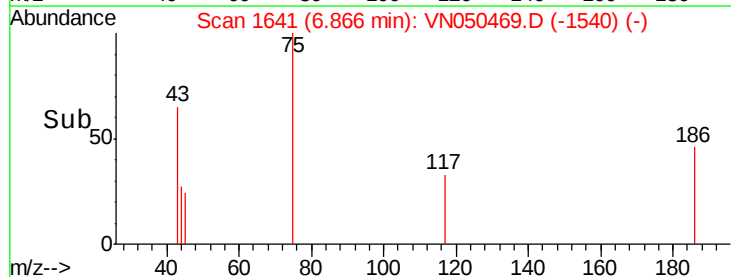
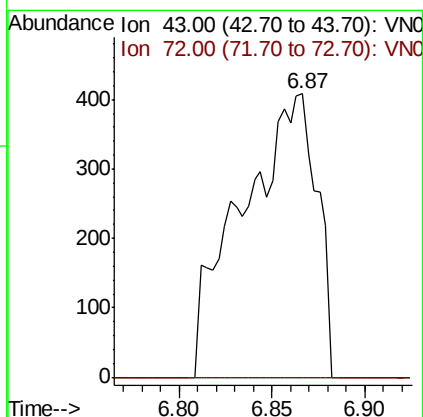
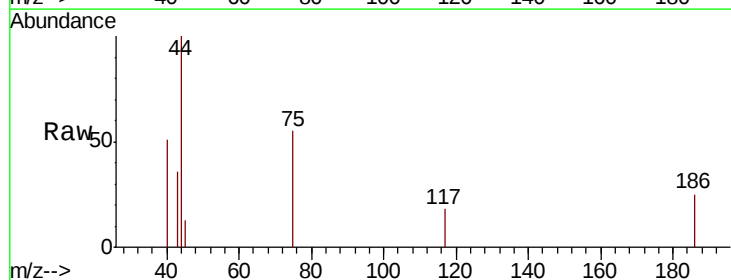
Instrument :
MSVOA_N
ClientSampleId :
MW-41

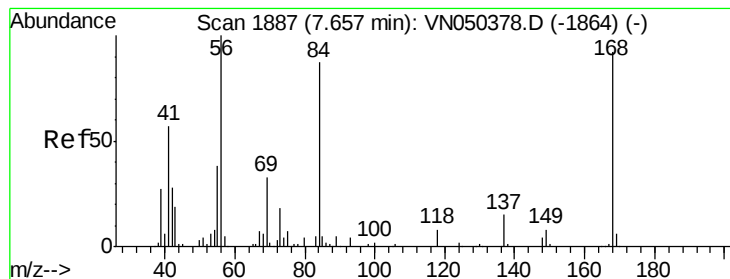
Tot Ion: 84 Resp: 1230
Ion Ratio Lower Upper
84 100
49 78.9 94.8 142.2#
51 40.7 28.3 42.5
86 58.9 51.0 76.6



#25
2-Butanone
Concen: 0.21 ug/l
RT: 6.87 min Scan# 1641
Delta R.T. 0.03 min
Lab File: VN050469.D
Acq: 8 Aug 2018 19:22

Tgt Ion: 43 Resp: 1152
Ion Ratio Lower Upper
43 100
72 0.0 21.5 32.3#





#31

Cyclohexane

Concen: 0.26 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050469.D

Acq: 8 Aug 2018 19:22

Instrument :

MSVOA_N

ClientSampled :

MW-41

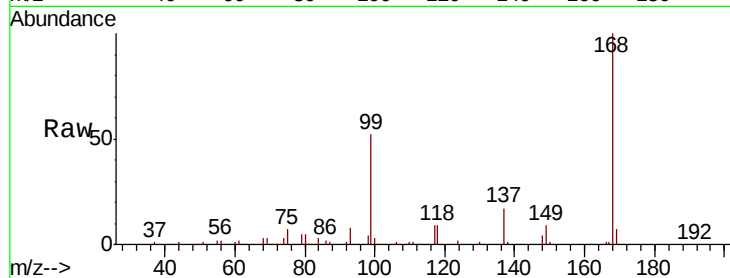
Tot Ion: 56 Resp: 13971

Ion Ratio Lower Upper

56 100

69 181.8 26.2 39.4#

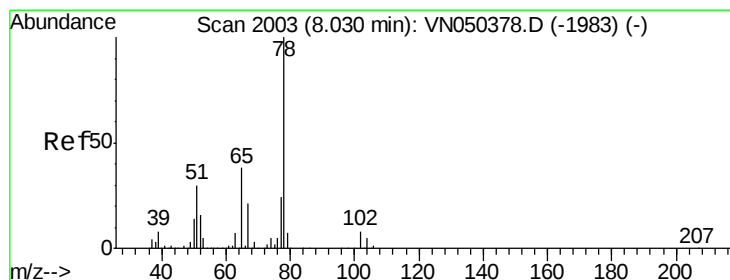
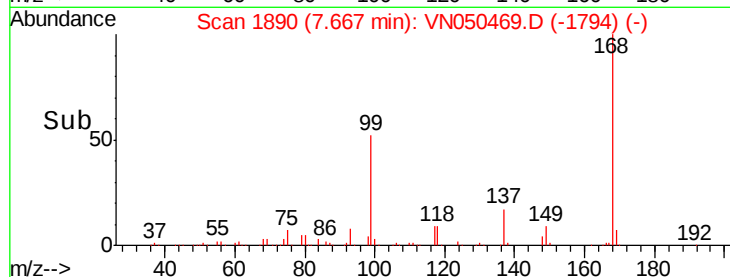
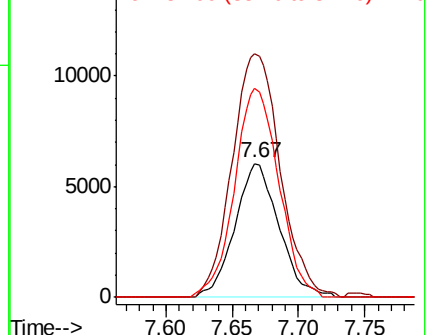
84 155.8 67.4 101.0#



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: 47.99 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050469.D

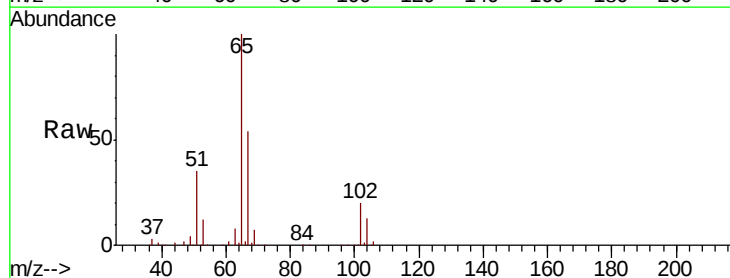
Acq: 8 Aug 2018 19:22

Tgt Ion: 65 Resp: 529302

Ion Ratio Lower Upper

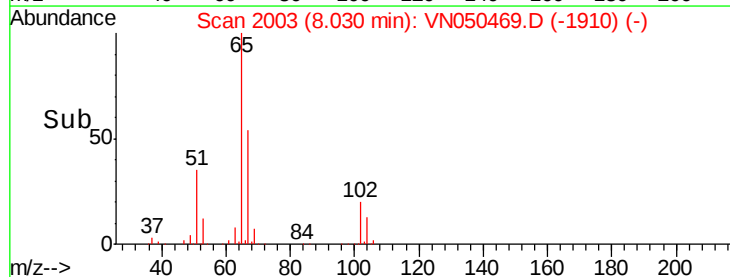
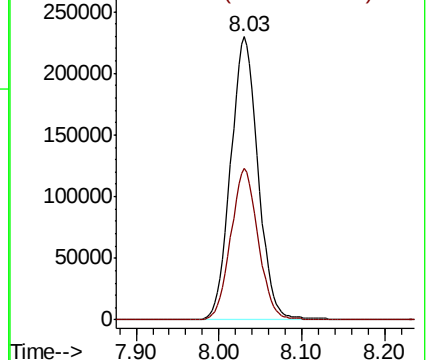
65 100

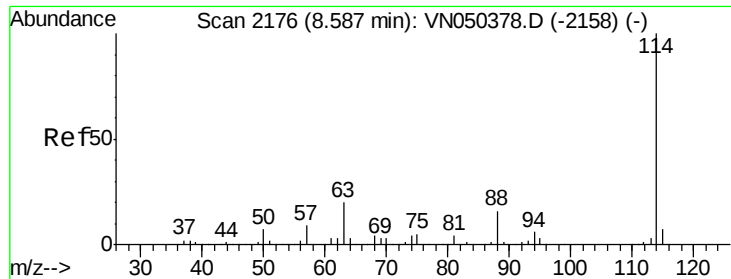
67 53.4 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

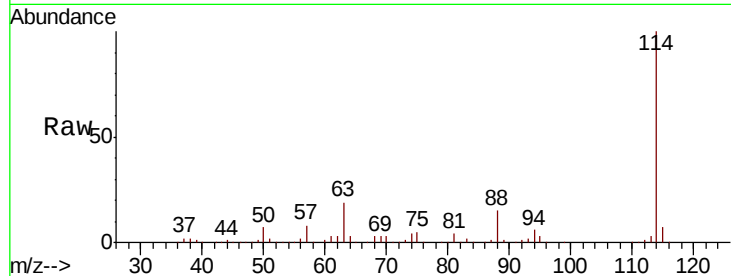




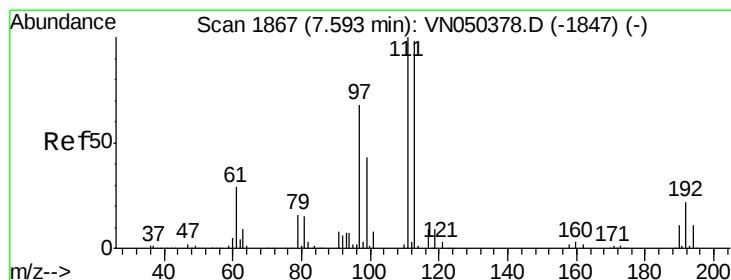
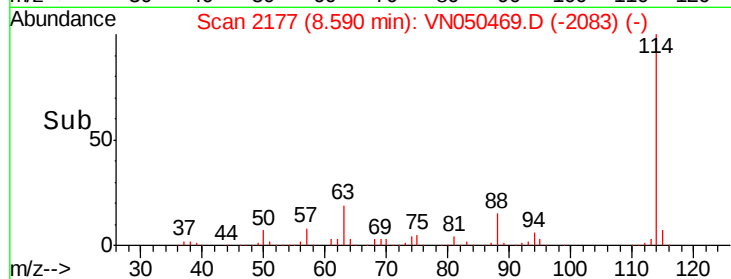
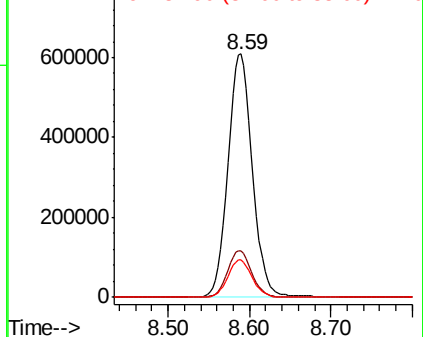
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050469.D
 Acq: 8 Aug 2018 19:22

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-41

Tot Ion:114 Resp: 1284980
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 40.0
 88 15.2 0.0 31.2

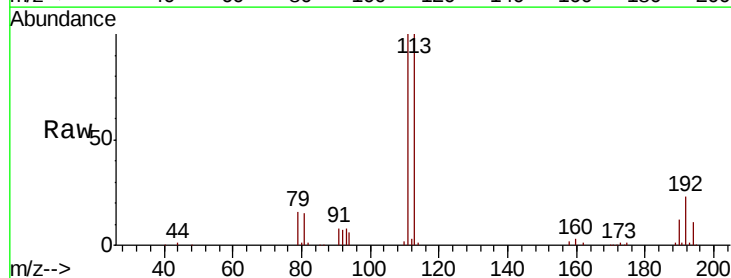


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

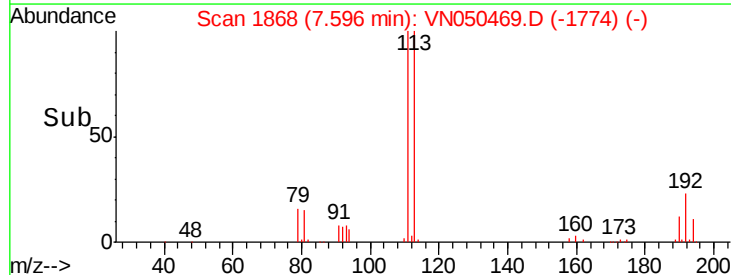
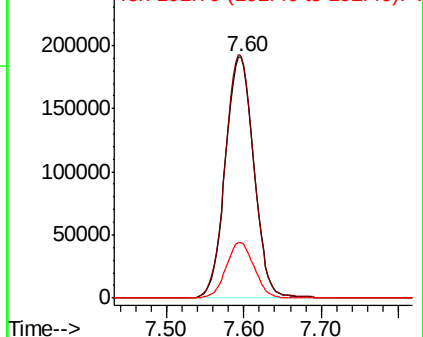


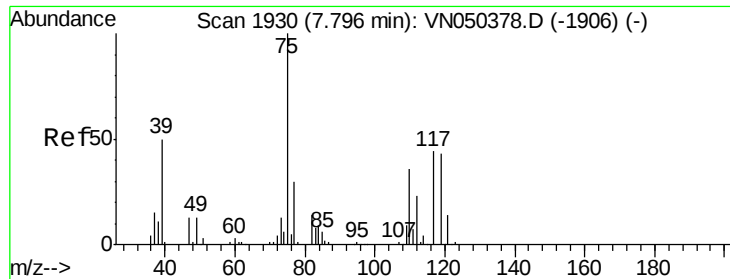
#35
 Dibromofluoromethane
 Concen: 47.27 ug/l
 RT: 7.60 min Scan# 1868
 Delta R.T. 0.00 min
 Lab File: VN050469.D
 Acq: 8 Aug 2018 19:22

Tgt Ion:113 Resp: 487397
 Ion Ratio Lower Upper
 113 100
 111 100.9 80.7 121.1
 192 22.6 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: 3.97 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN050469.D

Acq: 8 Aug 2018 19:22

Instrument :

MSVOA_N

ClientSampleId :

MW-41

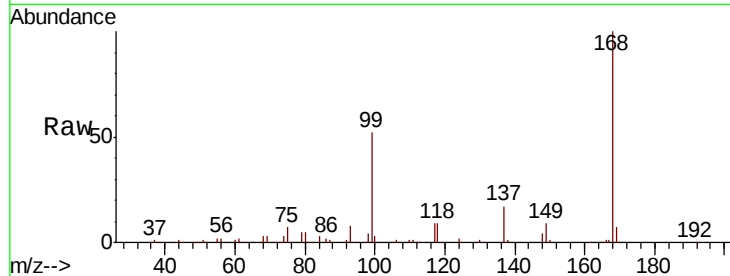
Tot Ion: 75 Resp: 56013

Ion Ratio Lower Upper

75 100

110 8.3 18.4 55.2#

77 0.0 25.3 37.9#

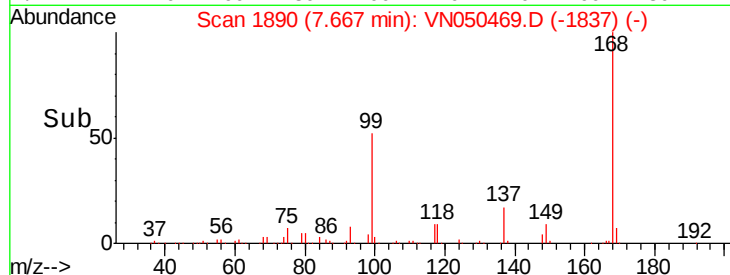


Abundance Ion 74.90 (74.60 to 75.60): VN050378.D (-1906) (-)

Ion 109.90 (109.60 to 110.60): VN050378.D (-1906) (-)

Ion 76.90 (76.60 to 77.60): VN050378.D (-1906) (-)

Time-->



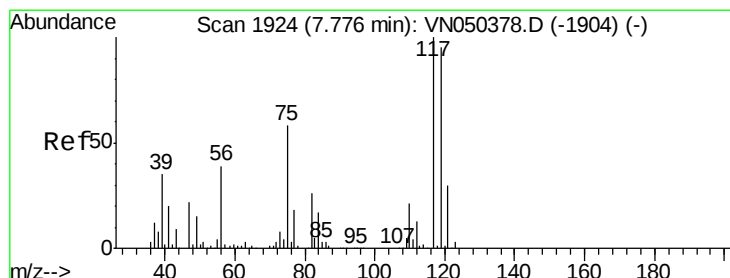
Abundance

Ion 74.90 (74.60 to 75.60): VN050378.D (-1906) (-)

Ion 109.90 (109.60 to 110.60): VN050378.D (-1906) (-)

Ion 76.90 (76.60 to 77.60): VN050378.D (-1906) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 4.90 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN050469.D

Acq: 8 Aug 2018 19:22

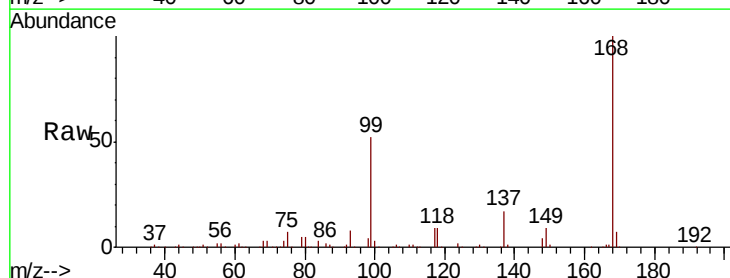
Tgt Ion: 117 Resp: 72206

Ion Ratio Lower Upper

117 100

119 5.4 77.4 116.0#

121 0.0 23.9 35.9#

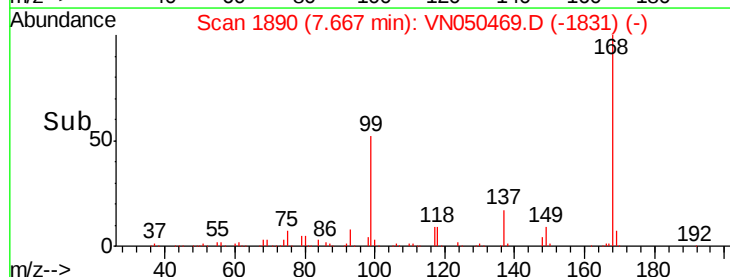


Abundance Ion 116.80 (116.50 to 117.50): VN050378.D (-1904) (-)

Ion 118.80 (118.50 to 119.50): VN050378.D (-1904) (-)

Ion 120.80 (120.50 to 121.50): VN050378.D (-1904) (-)

Time-->



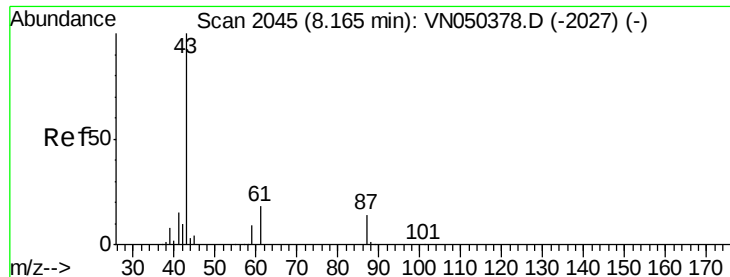
Abundance

Ion 116.80 (116.50 to 117.50): VN050378.D (-1904) (-)

Ion 118.80 (118.50 to 119.50): VN050378.D (-1904) (-)

Ion 120.80 (120.50 to 121.50): VN050378.D (-1904) (-)

Time-->



#43

Isopropyl Acetate

Concen: 5.67 ug/l

RT: 8.30 min Scan# 2087

Delta R.T. 0.14 min

Lab File: VN050469.D

Acq: 8 Aug 2018 19:22

Instrument :

MSVOA_N

ClientSampleId :

MW-41

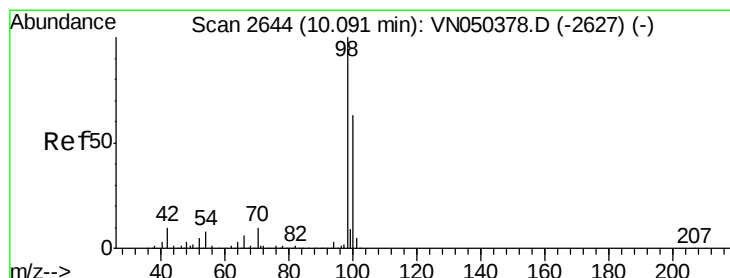
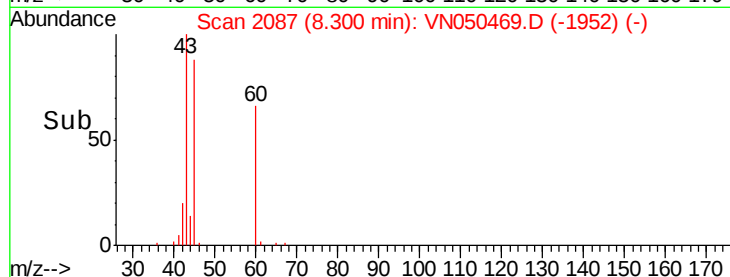
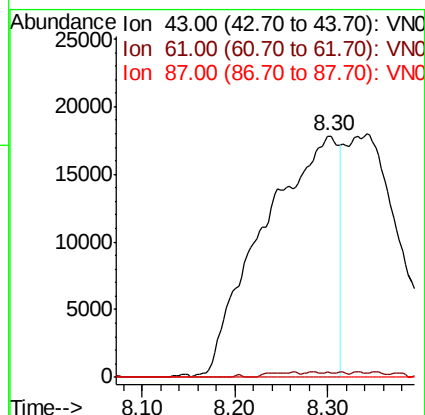
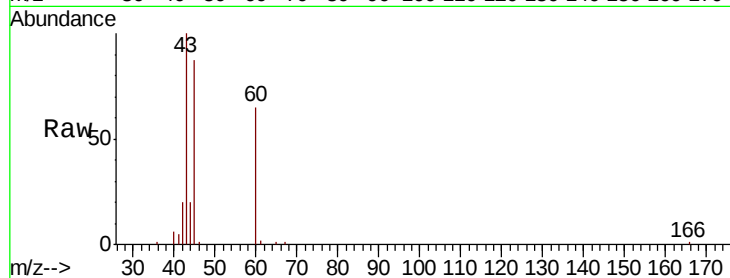
Tot Ion: 43 Resp: 99581

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.6#

87 0.0 10.3 15.5#



#50

Toluene-d8

Concen: 45.56 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050469.D

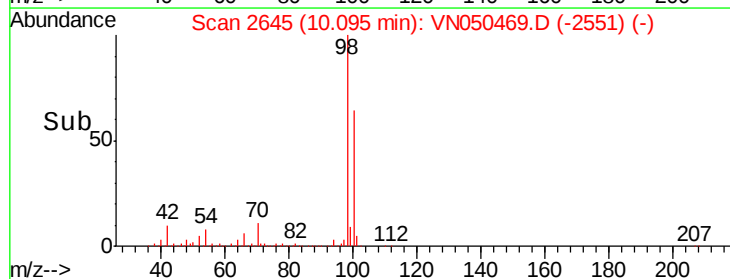
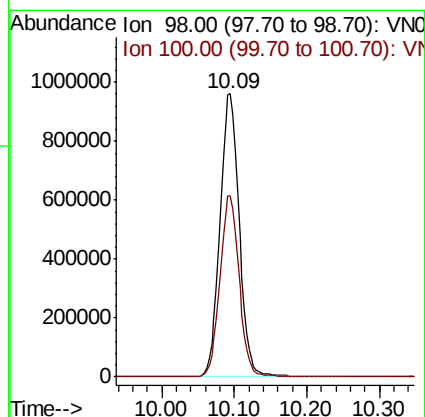
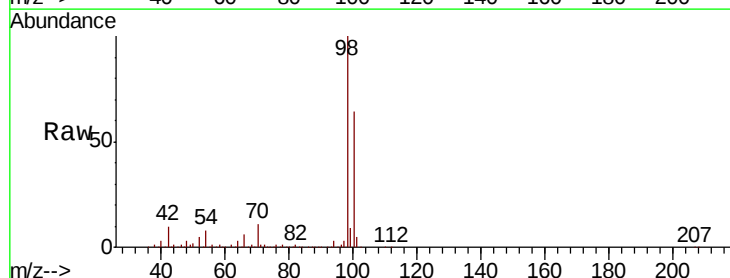
Acq: 8 Aug 2018 19:22

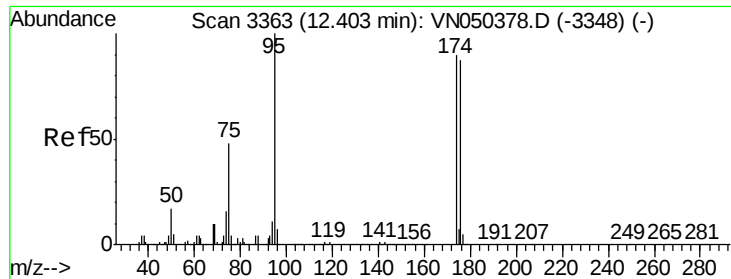
Tgt Ion: 98 Resp: 1766377

Ion Ratio Lower Upper

98 100

100 63.8 50.7 76.1

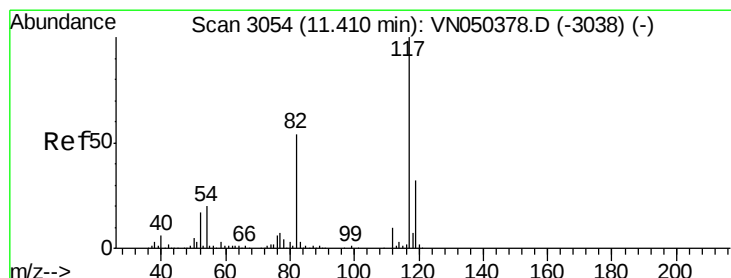
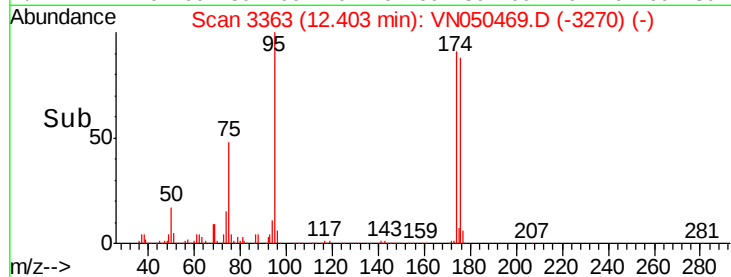
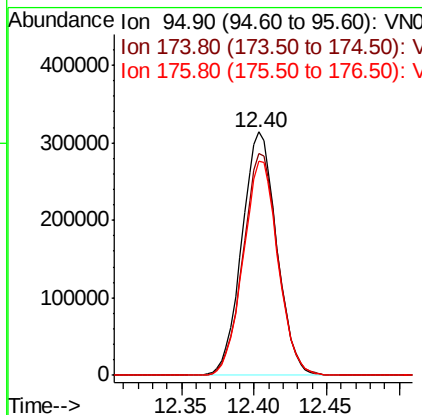
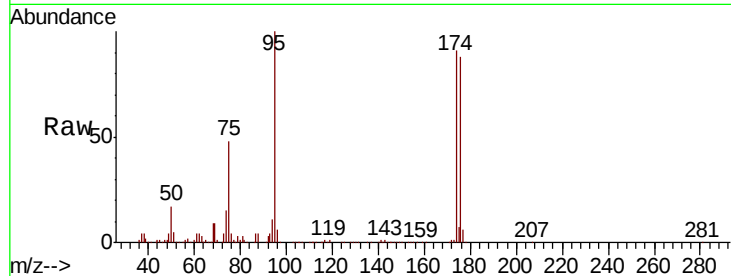




#62
4-Bromofluorobenzene
Concen: 39.59 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050469.D
Acq: 8 Aug 2018 19:22

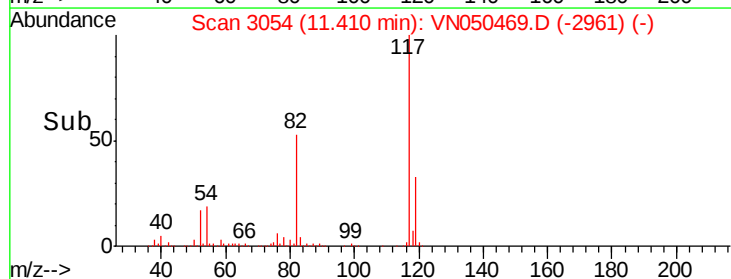
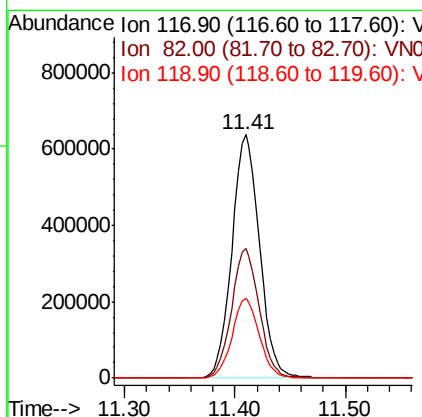
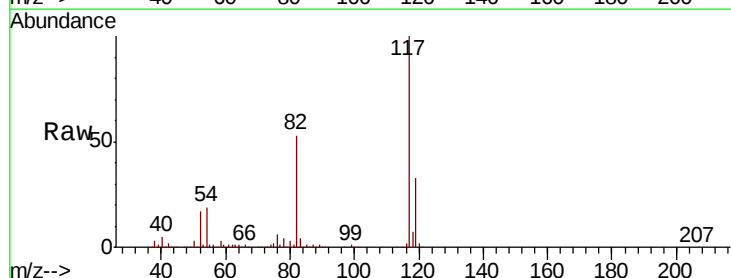
Instrument :
MSVOA_N
ClientSampleId :
MW-41

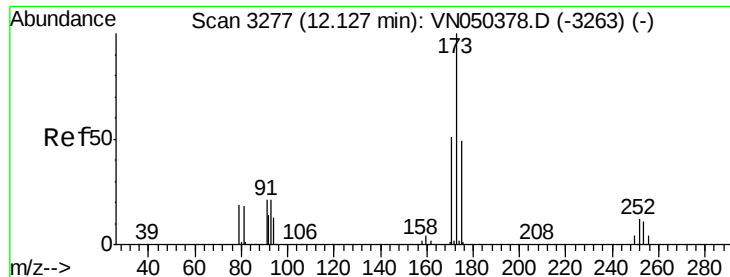
Tot Ion: 95 Resp: 523054
Ion Ratio Lower Upper
95 100
174 91.6 0.0 178.2
176 88.3 0.0 173.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050469.D
Acq: 8 Aug 2018 19:22

Tgt Ion: 117 Resp: 1107972
Ion Ratio Lower Upper
117 100
82 53.1 43.7 65.5
119 32.8 26.1 39.1





#71

Bromoform

Concen: 0.50 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN050469.D

Acq: 8 Aug 2018 19:22

Instrument :

MSVOA_N

ClientSampled :

MW-41

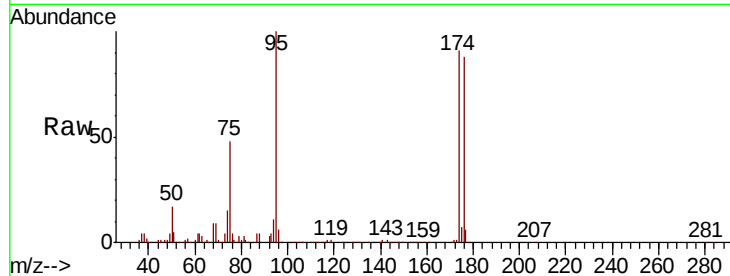
Tot Ion:173 Resp: 3730

Ion Ratio Lower Upper

173 100

175 768.7 24.1 72.2#

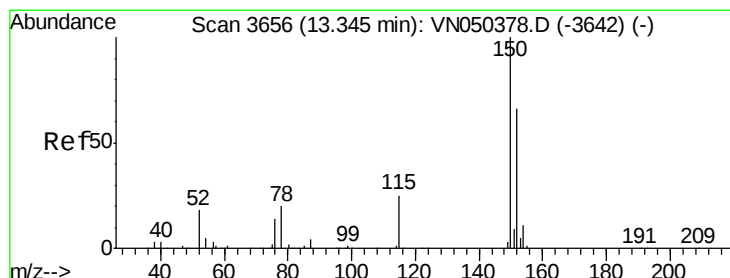
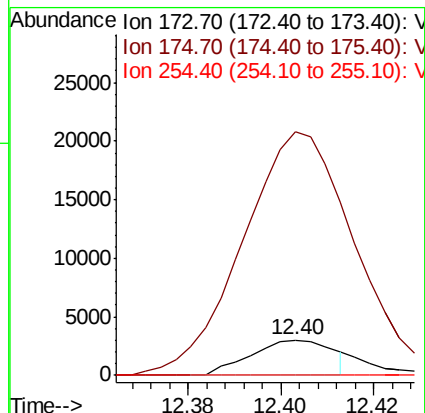
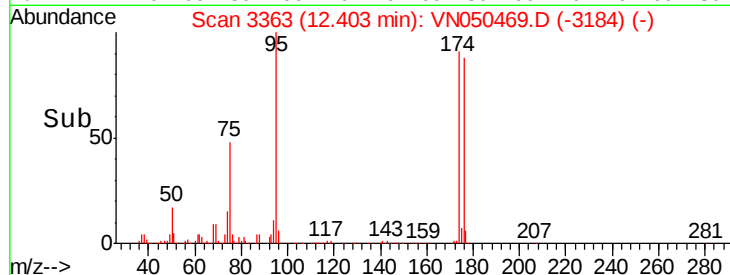
254 0.0 0.2 0.2#



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: VN050469.D

Acq: 8 Aug 2018 19:22

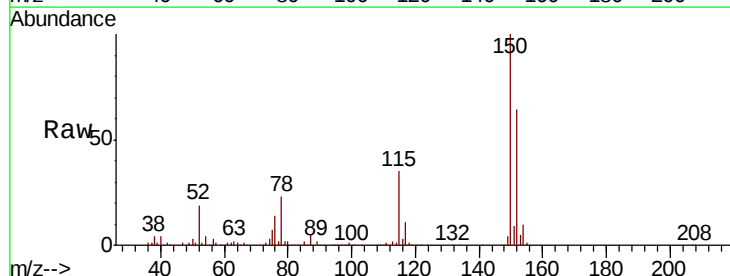
Tgt Ion:152 Resp: 440758

Ion Ratio Lower Upper

152 100

115 56.1 27.8 83.3

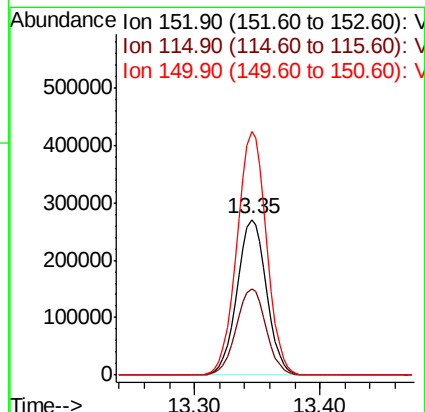
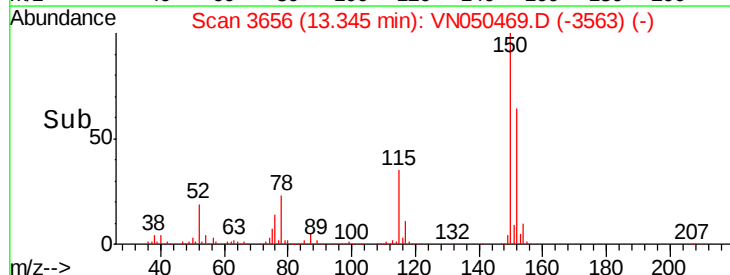
150 157.0 0.0 348.6

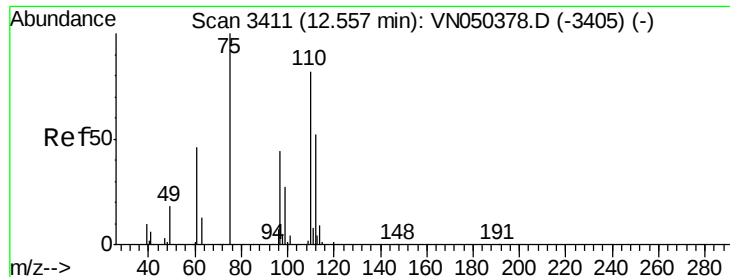


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 31.47 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050469.D

Acq: 8 Aug 2018 19:22

Instrument :

MSVOA_N

ClientSampleId :

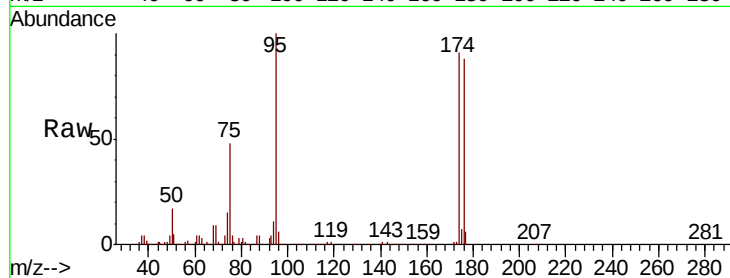
MW-41

Tot Ion: 75 Resp: 251067

Ion Ratio Lower Upper

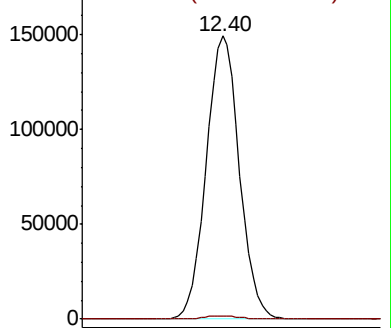
75 100

77 1.2 0.0 0.0#

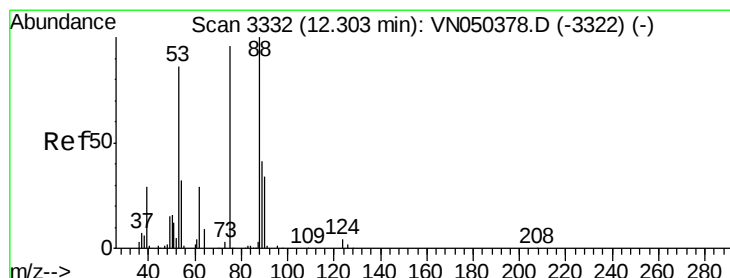
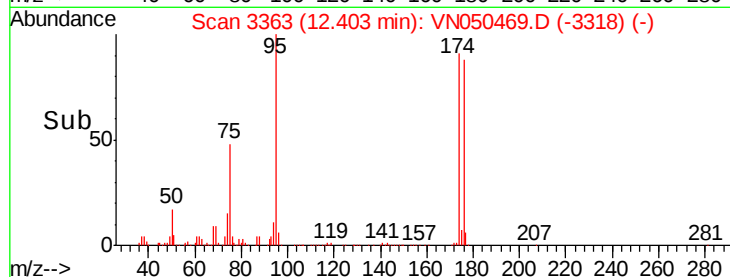


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 110.57 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050469.D

Acq: 8 Aug 2018 19:22

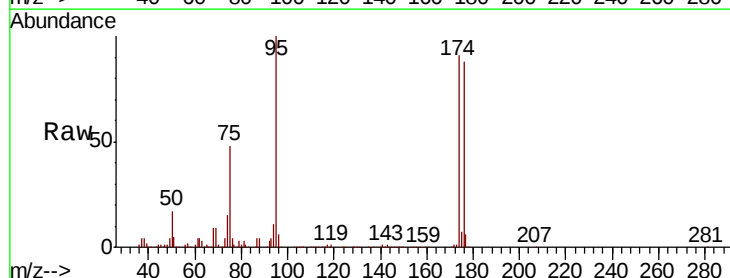
Tgt Ion: 75 Resp: 251067

Ion Ratio Lower Upper

75 100

53 0.1 73.5 110.3#

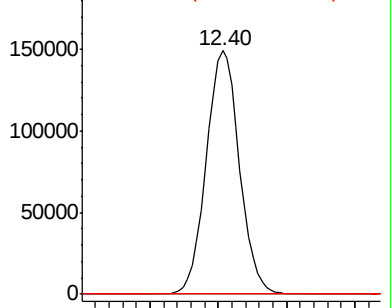
89 0.0 36.0 54.0#



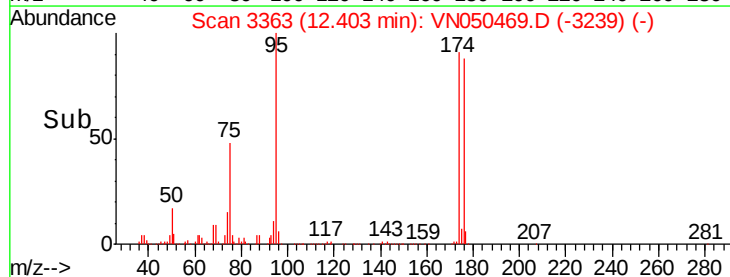
Abundance Ion 74.90 (74.60 to 75.60): VNO

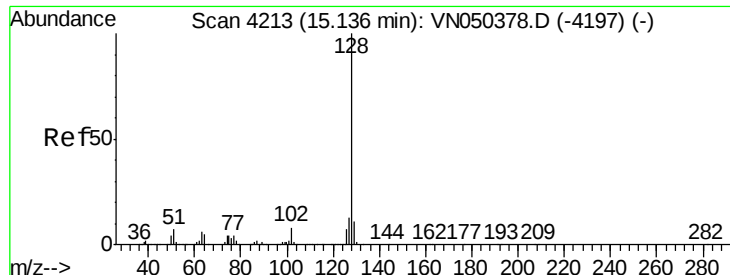
Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO



Time-->

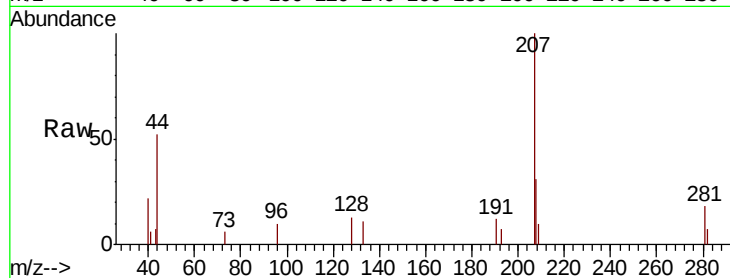




#95
Naphthalene
Concen: 3.64 ug/l
RT: 15.14 min Scan# 4214
Delta R.T. 0.00 min
Lab File: VN050469.D
Acq: 8 Aug 2018 19:22

Instrument :
MSVOA_N
ClientSampleId :
MW-41

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.4	15.6#
129	0.0	8.8	13.2#



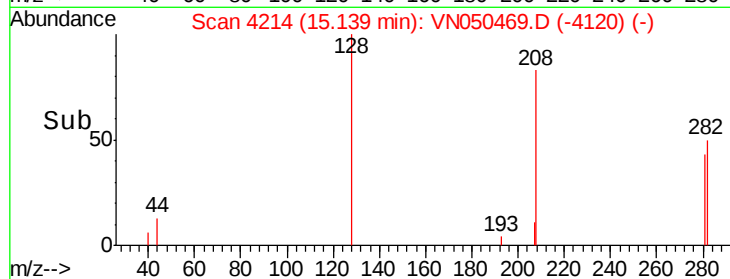
Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

15.14



Time--> 15.10 15.12 15.14 15.16