

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081018\
 Data File : VN050511.D
 Acq On : 10 Aug 2018 12:29
 Operator : MD\SY
 Sample : J4420-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FB080918

Quant Time: Aug 10 23:14:18 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	750636	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1168912	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1017704	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	378695	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	493345	49.19	ug/l	0.00
Spiked Amount			Recovery	=	98.38%	
35) Dibromofluoromethane	7.59	113	457598	48.79	ug/l	0.00
Spiked Amount			Recovery	=	97.58%	
50) Toluene-d8	10.09	98	1625082	46.08	ug/l	0.00
Spiked Amount			Recovery	=	92.16%	
62) 4-Bromofluorobenzene	12.40	95	458404	38.14	ug/l	0.00
Spiked Amount			Recovery	=	76.28%	

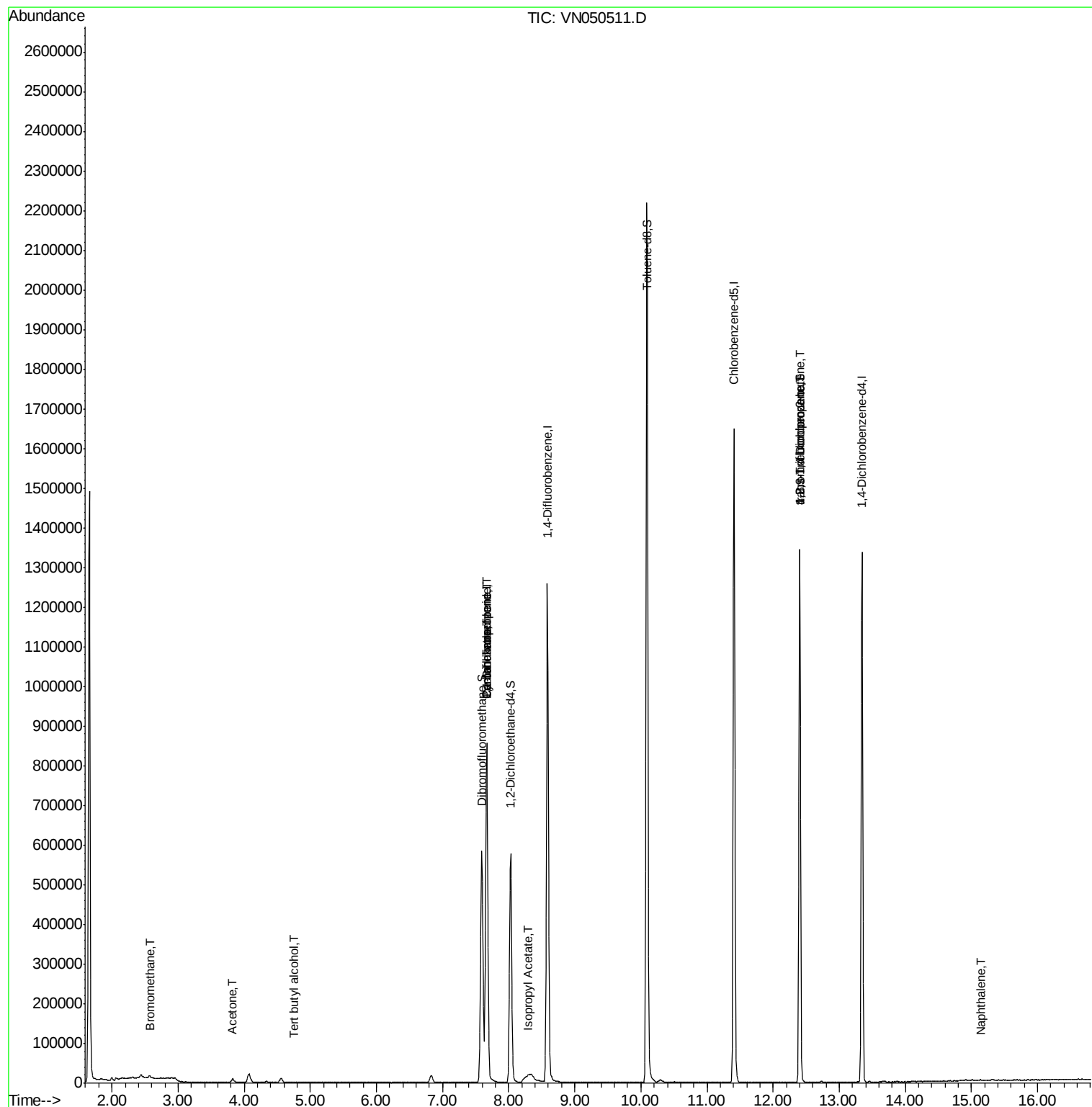
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	3418	Below Cal		93
5) Bromomethane	2.57	94	4600	1.05 ug/l		89
11) Tert butyl alcohol	4.75	59	446	0.55 ug/l #		72
16) Acetone	3.82	43	15930	4.97 ug/l		98
20) Methylene Chloride	4.55	84	7883	Below Cal		93
31) Cyclohexane	7.66	56	12662	0.25 ug/l #		1
36) 1,1-Dichloropropene	7.67	75	51528	4.01 ug/l #		48
38) Carbon Tetrachloride	7.67	117	66715	4.98 ug/l #		16
43) Isopropyl Acetate	8.28	43	19091	1.20 ug/l #		61
76) 1,2,3-Trichloropropane	12.40	75	218881	31.93 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	218881	112.19 ug/l #		13
94) Hexachlorobutadiene	15.01	225	199	Below Cal #		46
95) Naphthalene	15.14	128	2015	3.72 ug/l #		80

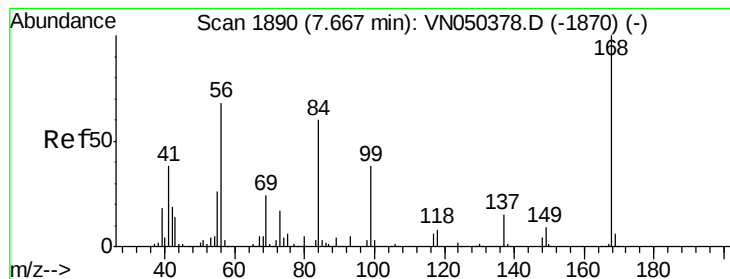
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN050511.D

Acq: 10 Aug 2018 12:29

Instrument :

MSVOA_N

ClientSampleId :

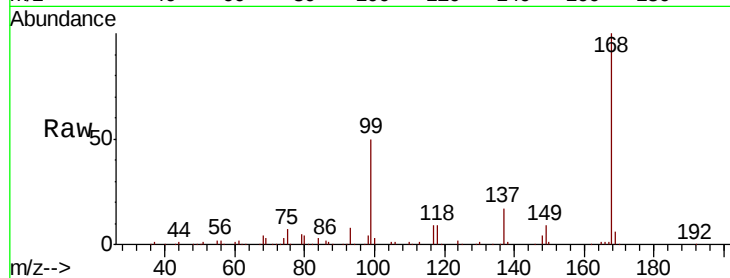
FB080918

Tot Ion:168 Resp: 750636

Ion Ratio Lower Upper

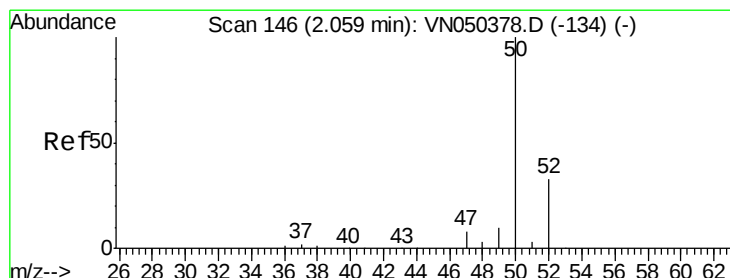
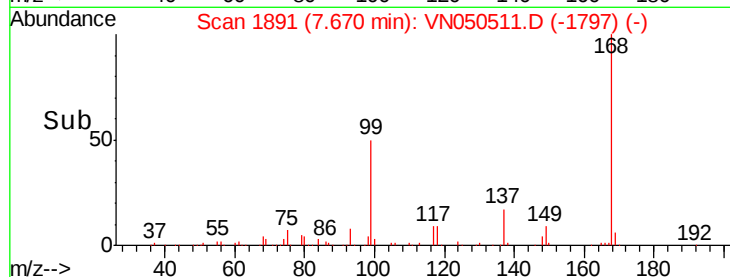
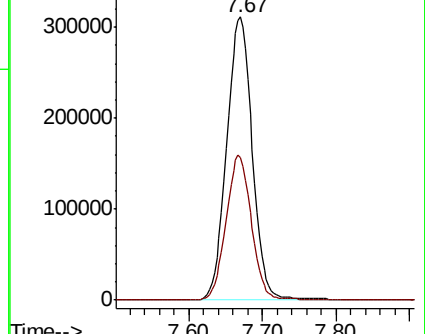
168 100

99 50.5 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050511.D

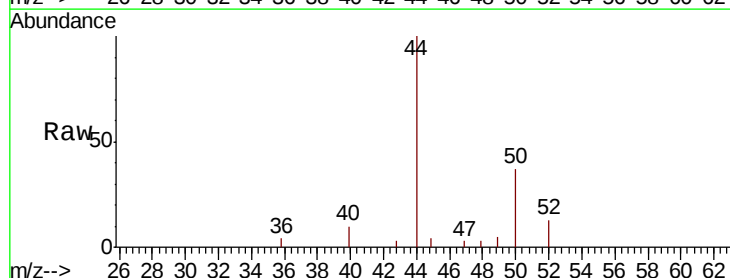
Acq: 10 Aug 2018 12:29

Tgt Ion: 50 Resp: 3418

Ion Ratio Lower Upper

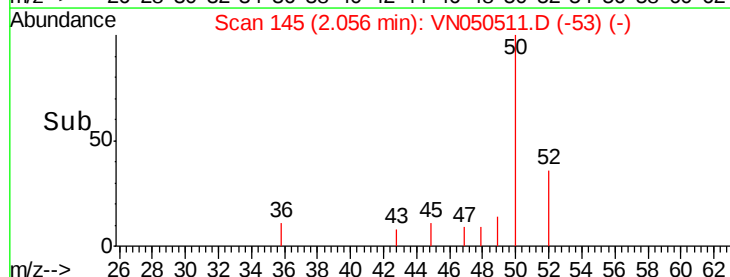
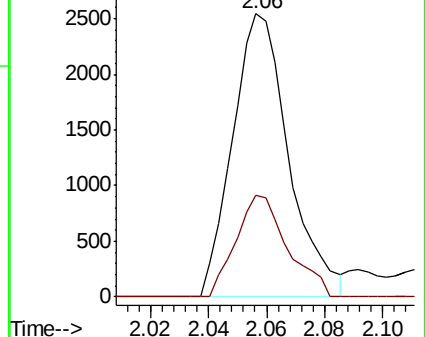
50 100

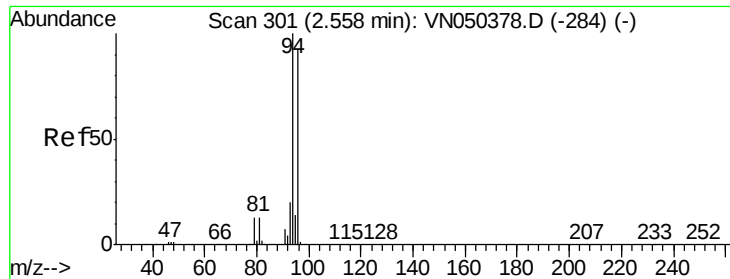
52 36.1 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#5

Bromomethane

Concen: 1.05 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050511.D

Acq: 10 Aug 2018 12:29

Instrument :

MSVOA_N

ClientSampleId :

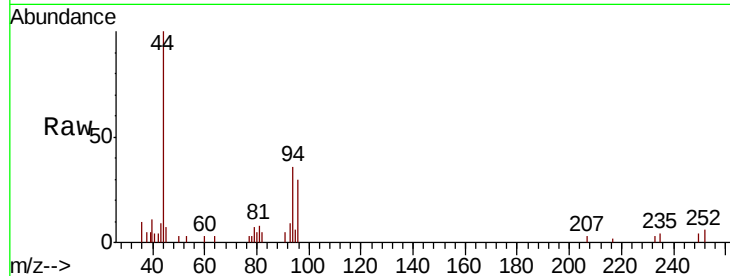
FB080918

Tot Ion: 94 Resp: 4600

Ion Ratio Lower Upper

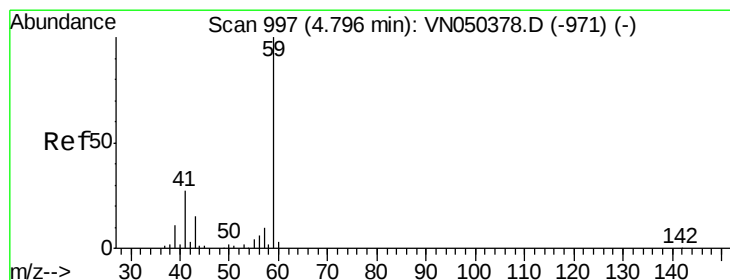
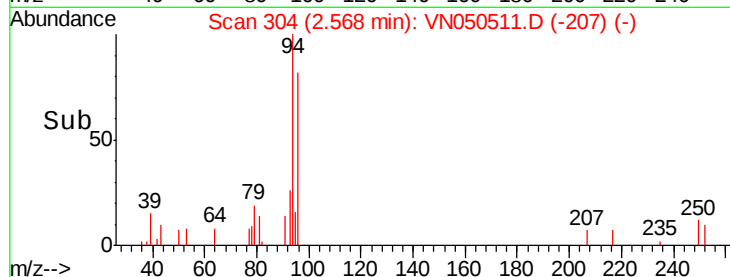
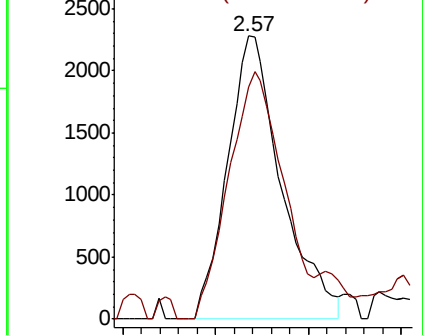
94 100

96 82.2 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#11

Tert butyl alcohol

Concen: 0.55 ug/l

RT: 4.75 min Scan# 983

Delta R.T. -0.04 min

Lab File: VN050511.D

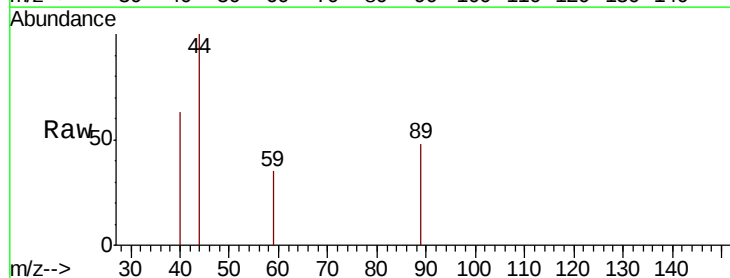
Acq: 10 Aug 2018 12:29

Tgt Ion: 59 Resp: 446

Ion Ratio Lower Upper

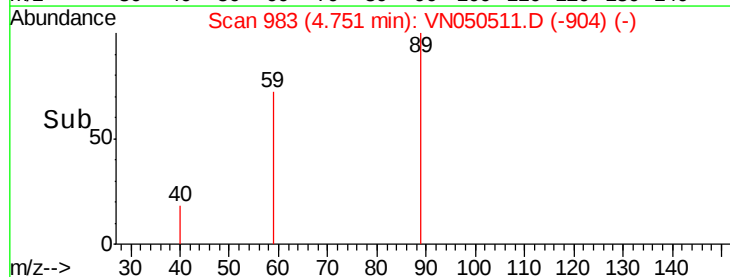
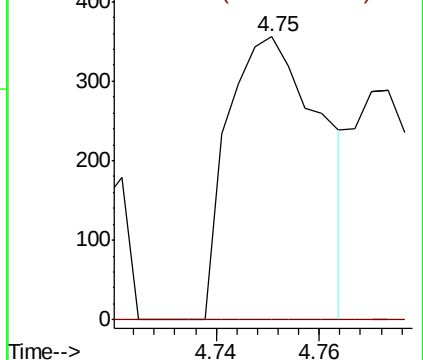
59 100

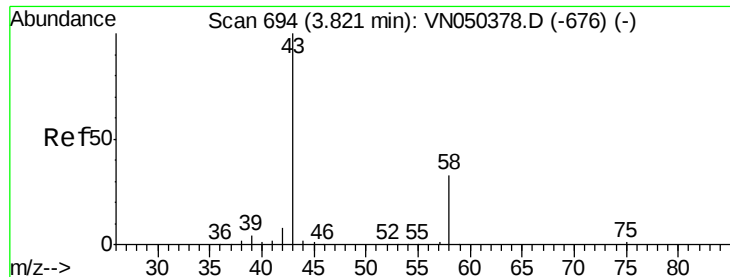
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 4.97 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN050511.D

Acq: 10 Aug 2018 12:29

Instrument :

MSVOA_N

ClientSampleId :

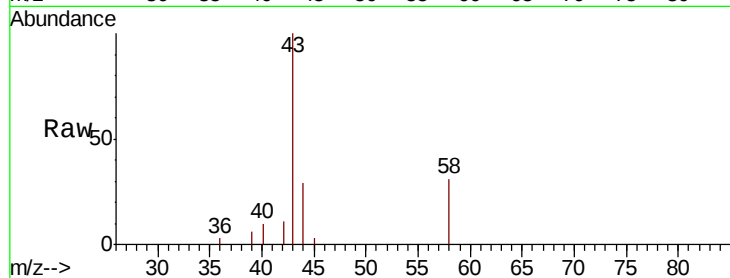
FB080918

Tot Ion: 43 Resp: 15930

Ion Ratio Lower Upper

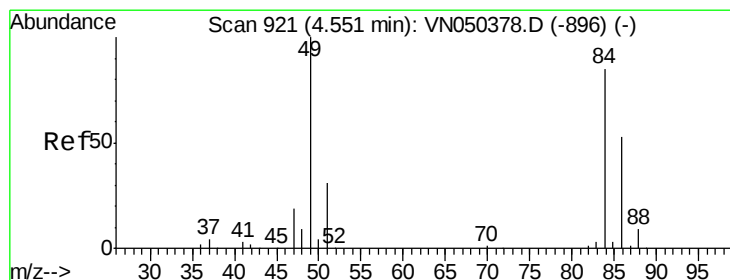
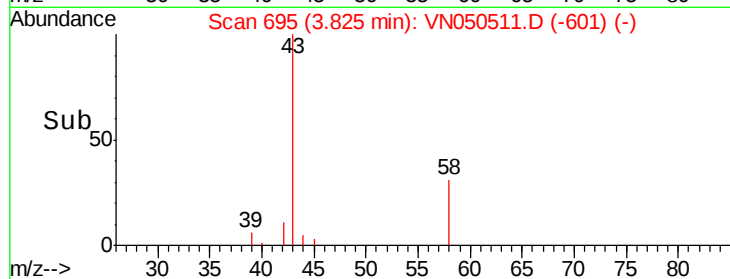
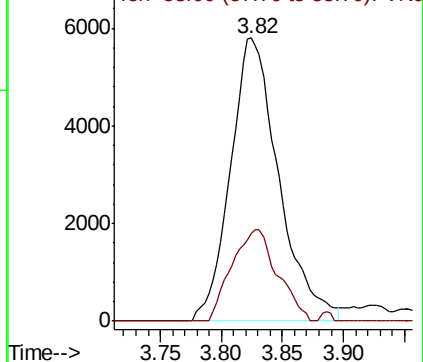
43 100

58 30.9 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN050511.D (-601) (-)

Ion 58.00 (57.70 to 58.70): VN050511.D (-601) (-)



#20

Methylene Chloride

Concen: Below Cal

RT: 4.55 min Scan# 922

Delta R.T. 0.00 min

Lab File: VN050511.D

Acq: 10 Aug 2018 12:29

Tgt Ion: 84 Resp: 7883

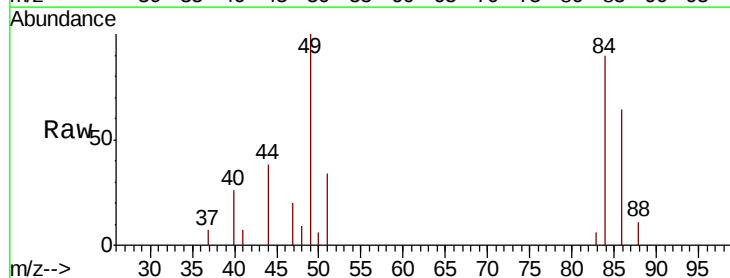
Ion Ratio Lower Upper

84 100

49 110.6 94.8 142.2

51 38.1 28.3 42.5

86 70.7 51.0 76.6

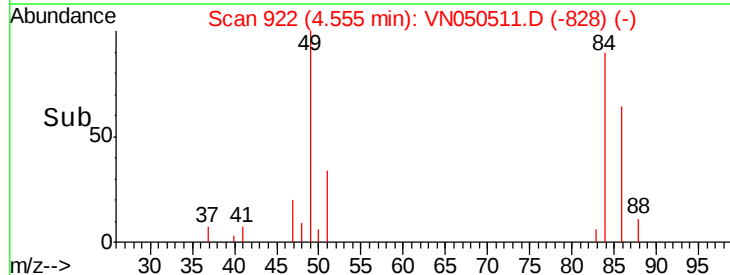
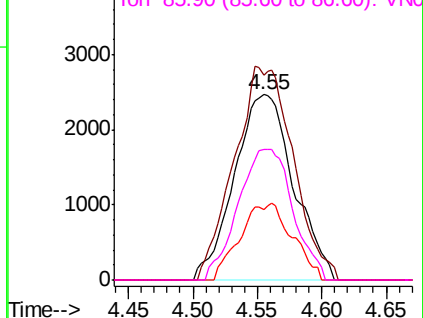


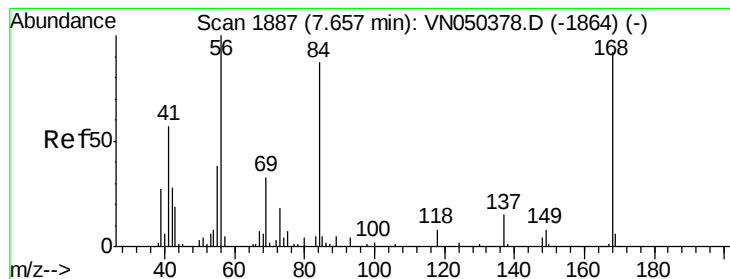
Abundance Ion 83.90 (83.60 to 84.60): VN050511.D (-828) (-)

Ion 48.90 (48.60 to 49.60): VN050511.D (-828) (-)

Ion 50.90 (50.60 to 51.60): VN050511.D (-828) (-)

Ion 85.90 (85.60 to 86.60): VN050511.D (-828) (-)





#31

Cyclohexane

Concen: 0.25 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. 0.01 min

Lab File: VN050511.D

Acq: 10 Aug 2018 12:29

Instrument :

MSVOA_N

ClientSampleId :

FB080918

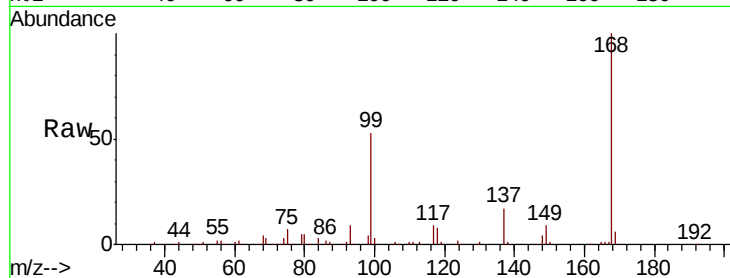
Tot Ion: 56 Resp: 12662

Ion Ratio Lower Upper

56 100

69 197.3 26.2 39.4#

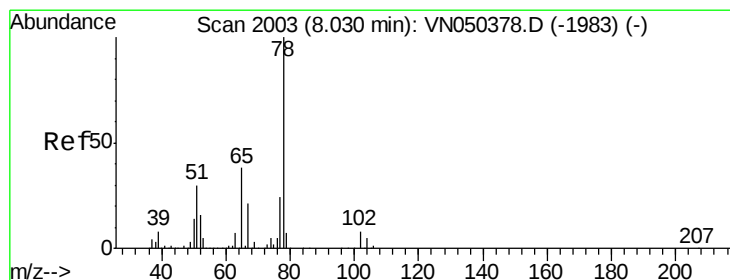
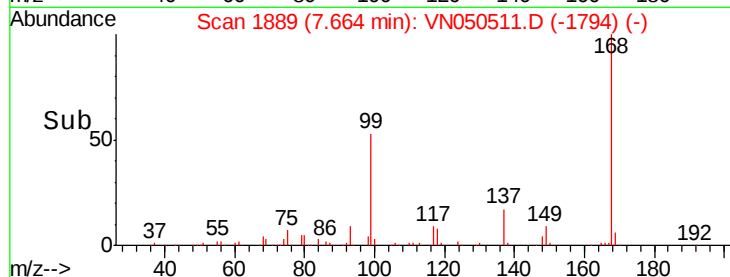
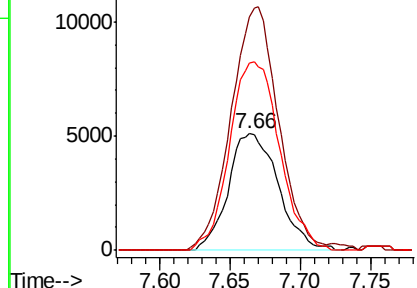
84 160.8 67.4 101.0#



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: 49.19 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050511.D

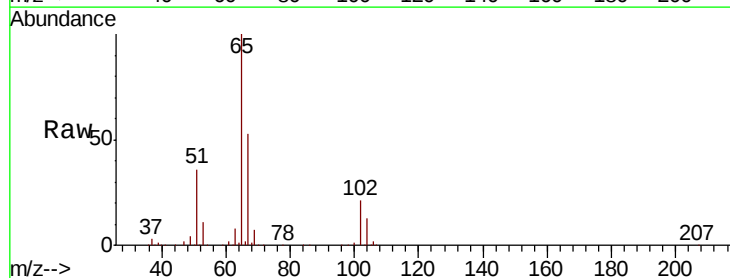
Acq: 10 Aug 2018 12:29

Tgt Ion: 65 Resp: 493345

Ion Ratio Lower Upper

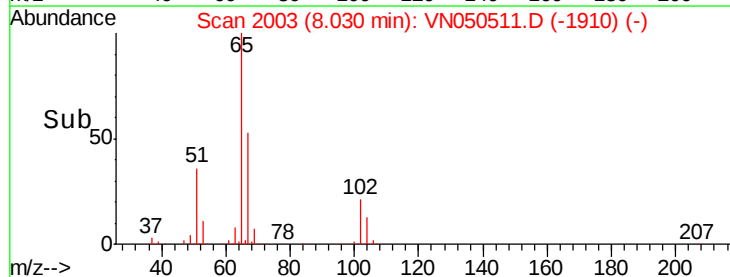
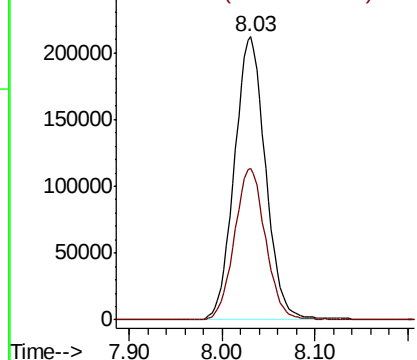
65 100

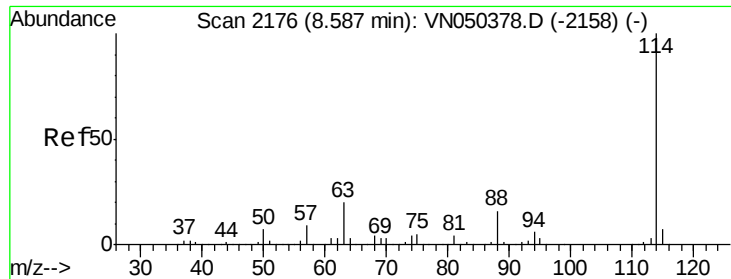
67 53.3 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

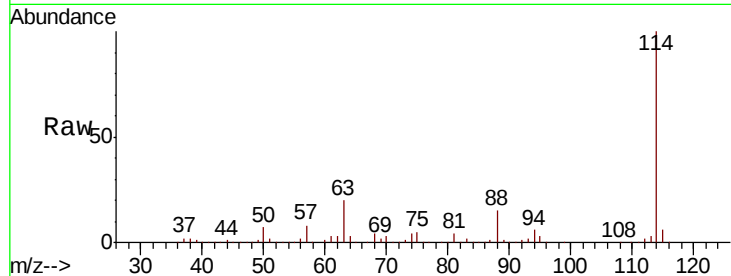




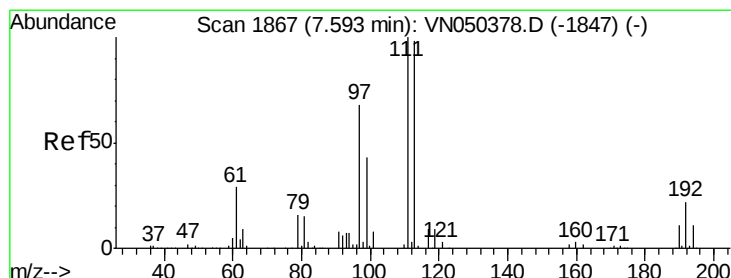
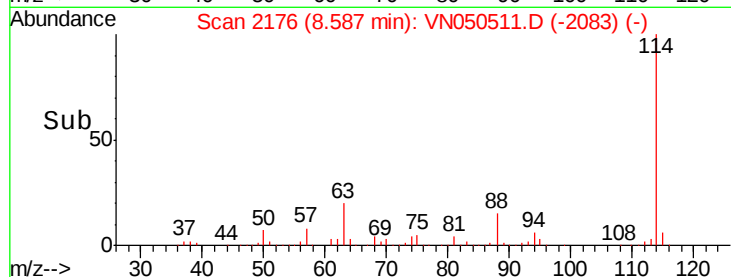
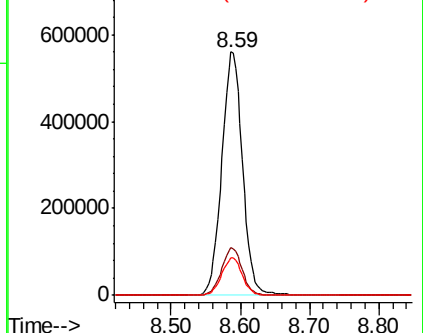
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN050511.D
 Acq: 10 Aug 2018 12:29

Instrument :
 MSVOA_N
 ClientSampleId :
 FB080918

Tot Ion:114 Resp: 1168912
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 40.0
 88 15.2 0.0 31.2

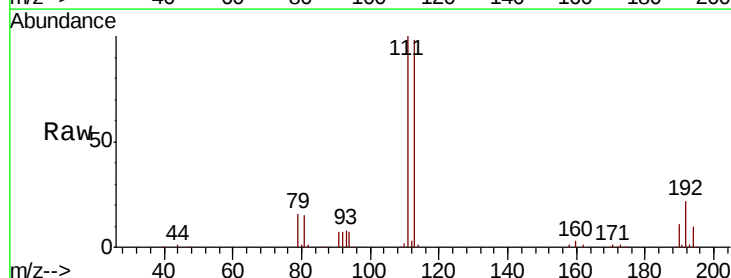


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

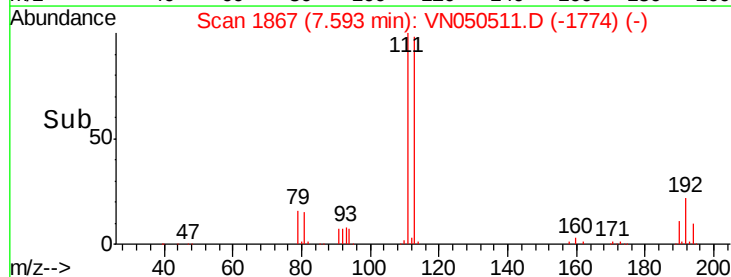
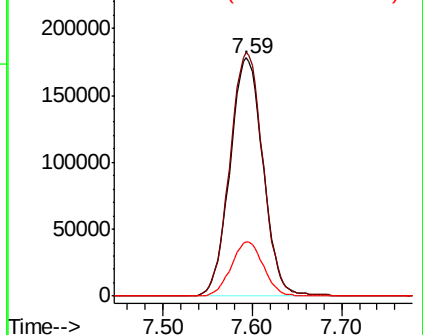


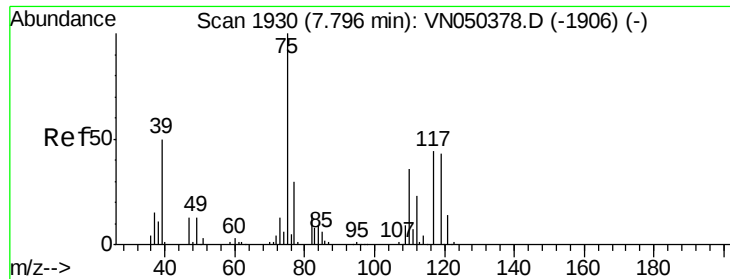
#35
 Dibromofluoromethane
 Concen: 48.79 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050511.D
 Acq: 10 Aug 2018 12:29

Tgt Ion:113 Resp: 457598
 Ion Ratio Lower Upper
 113 100
 111 102.6 80.7 121.1
 192 22.3 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

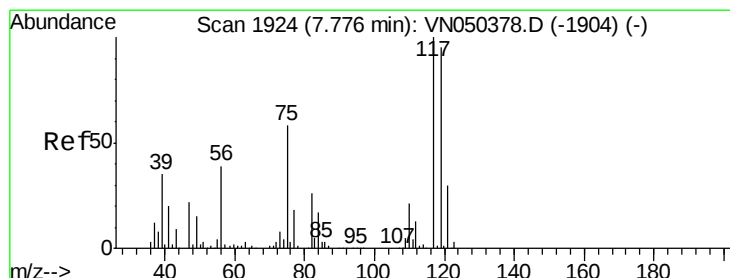
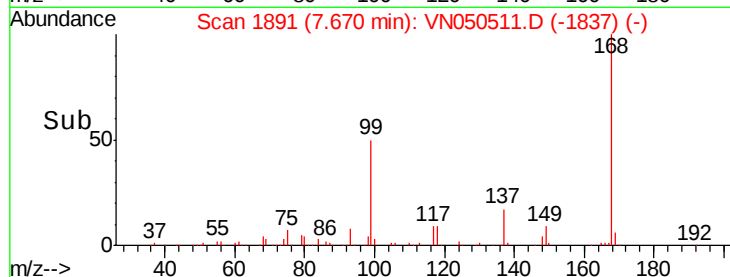
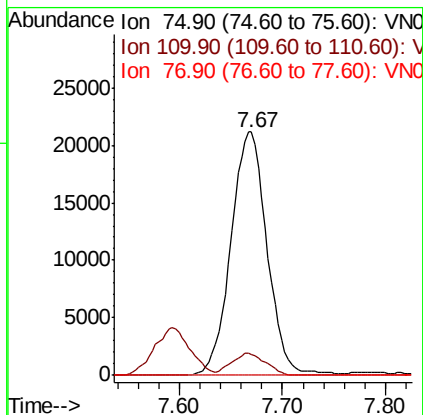
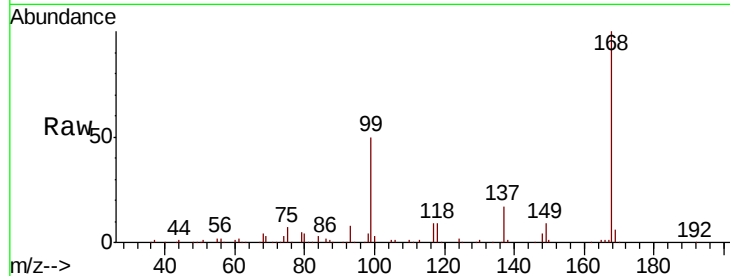




#36
 1,1-Dichloropropene
 Concen: 4.01 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.13 min
 Lab File: VN050511.D
 Acq: 10 Aug 2018 12:29

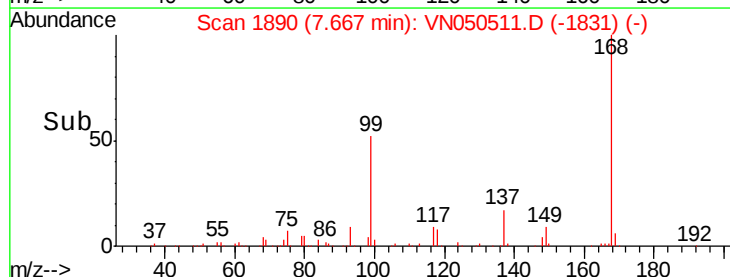
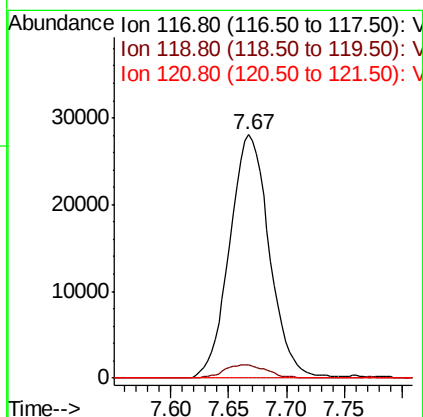
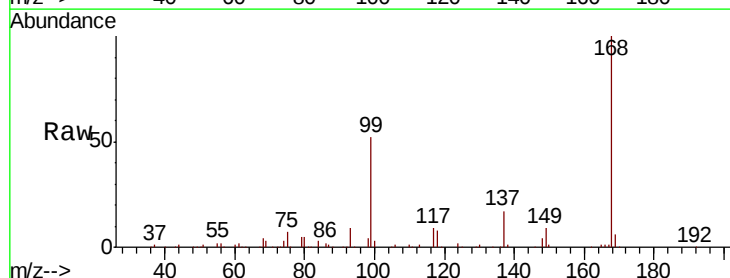
Instrument :
 MSVOA_N
 ClientSampled :
 FB080918

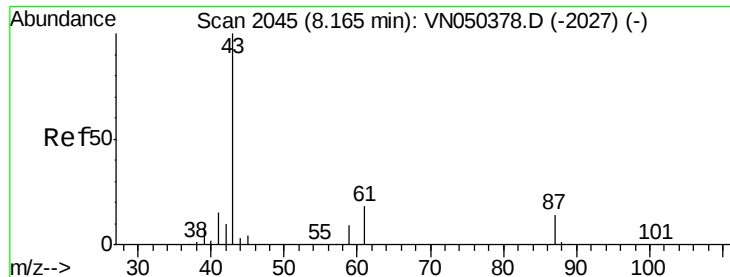
Tot Ion: 75 Resp: 51528
 Ion Ratio Lower Upper
 75 100
 110 8.6 18.4 55.2#
 77 0.0 25.3 37.9#



#38
 Carbon Tetrachloride
 Concen: 4.98 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN050511.D
 Acq: 10 Aug 2018 12:29

Tgt Ion: 117 Resp: 66715
 Ion Ratio Lower Upper
 117 100
 119 5.3 77.4 116.0#
 121 0.0 23.9 35.9#





#43

Isopropyl Acetate

Concen: 1.20 ug/l

RT: 8.28 min Scan# 2080

Delta R.T. 0.11 min

Lab File: VN050511.D

Acq: 10 Aug 2018 12:29

Instrument :

MSVOA_N

ClientSampleId :

FB080918

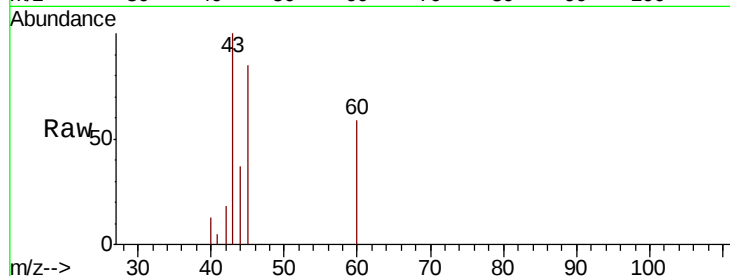
Tot Ion: 43 Resp: 19091

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.6#

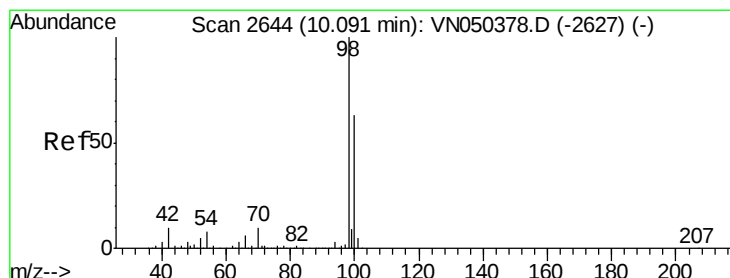
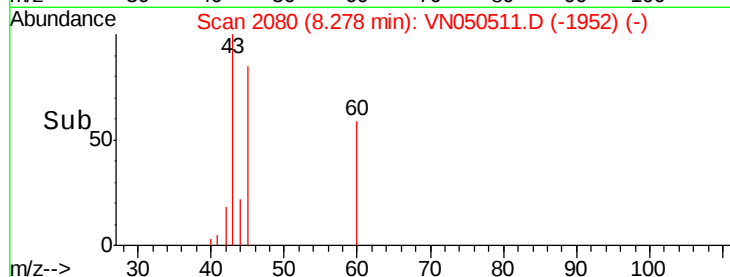
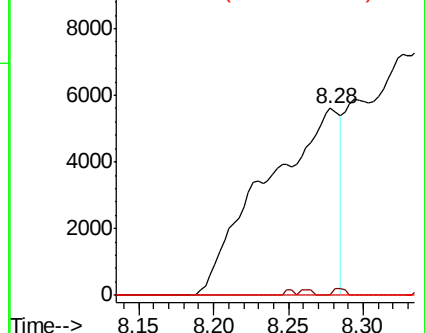
87 0.0 10.3 15.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 46.08 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN050511.D

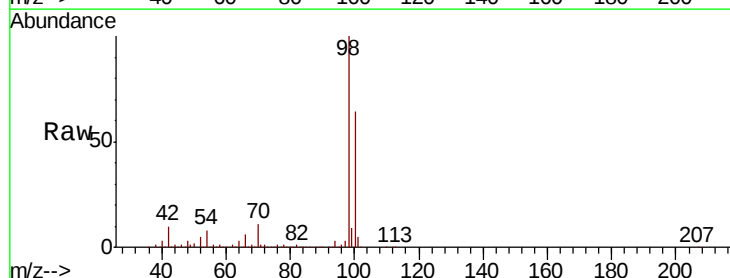
Acq: 10 Aug 2018 12:29

Tgt Ion: 98 Resp: 1625082

Ion Ratio Lower Upper

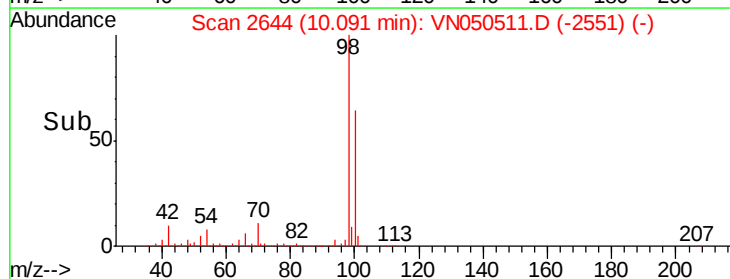
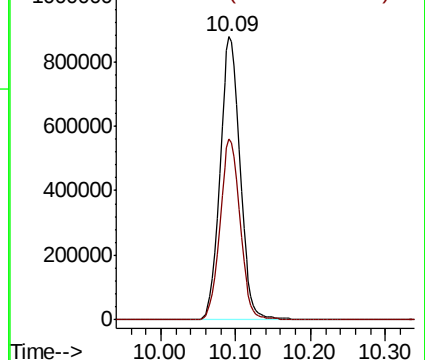
98 100

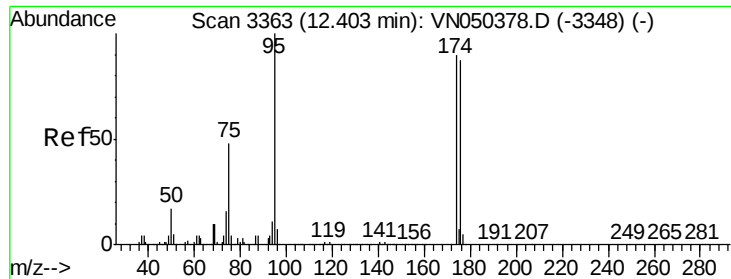
100 64.1 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

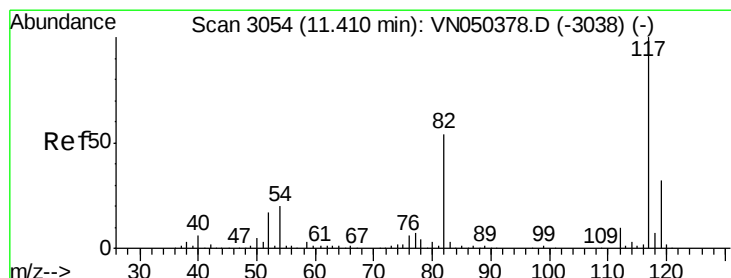
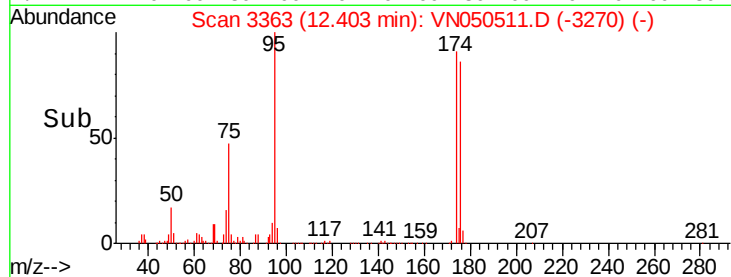
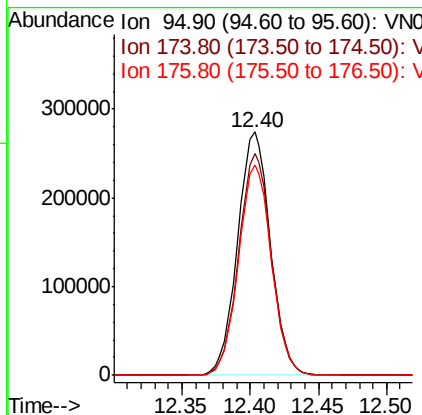
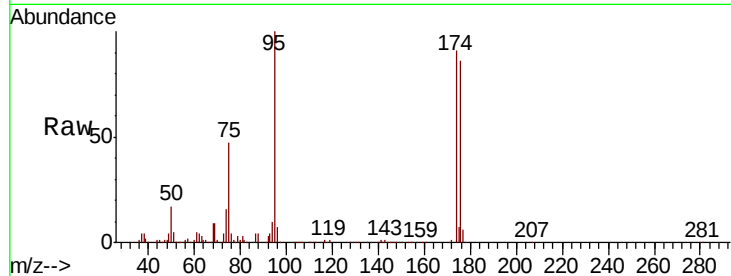




#62
4-Bromofluorobenzene
Concen: 38.14 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050511.D
Acq: 10 Aug 2018 12:29

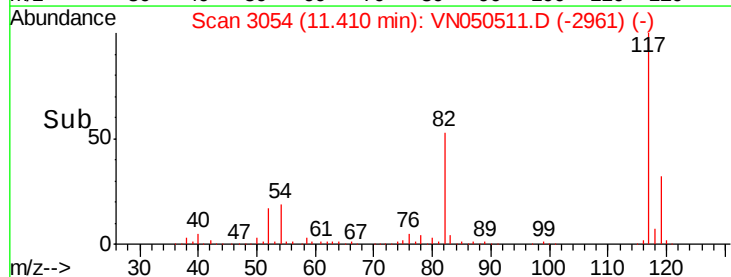
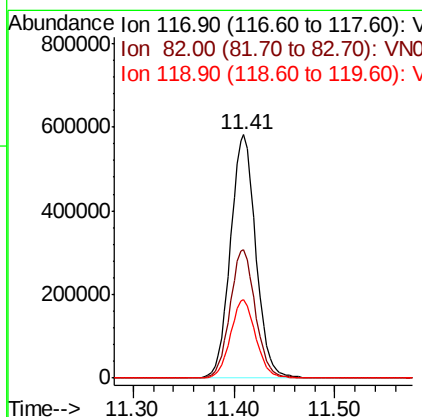
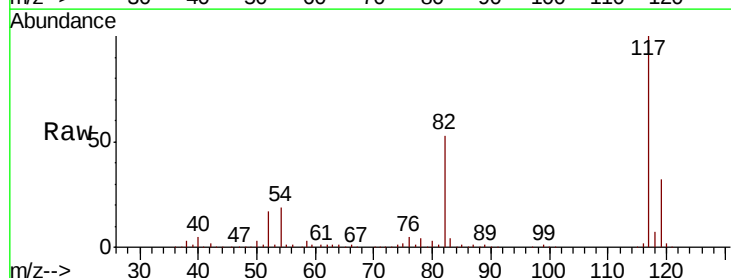
Instrument :
MSVOA_N
ClientSampleId :
FB080918

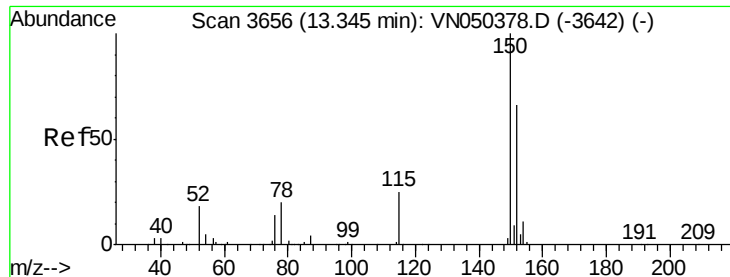
Tot Ion: 95 Resp: 458404
Ion Ratio Lower Upper
95 100
174 91.0 0.0 178.2
176 86.7 0.0 173.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050511.D
Acq: 10 Aug 2018 12:29

Tgt Ion: 117 Resp: 1017704
Ion Ratio Lower Upper
117 100
82 52.5 43.7 65.5
119 32.0 26.1 39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050511.D

Acq: 10 Aug 2018 12:29

Instrument :

MSVOA_N

ClientSampleId :

FB080918

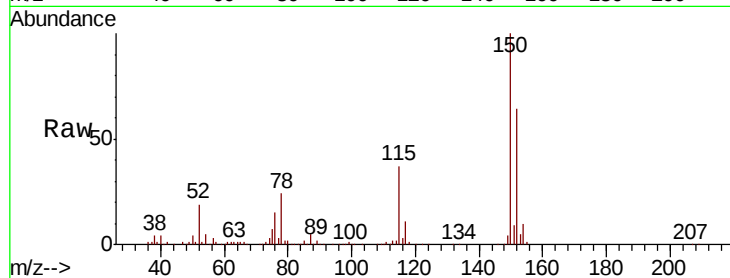
Tot Ion:152 Resp: 378695

Ion Ratio Lower Upper

152 100

115 56.8 27.8 83.3

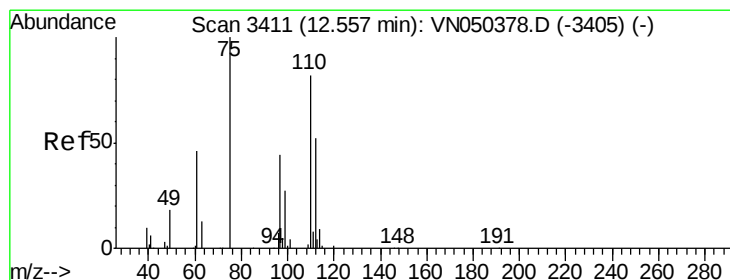
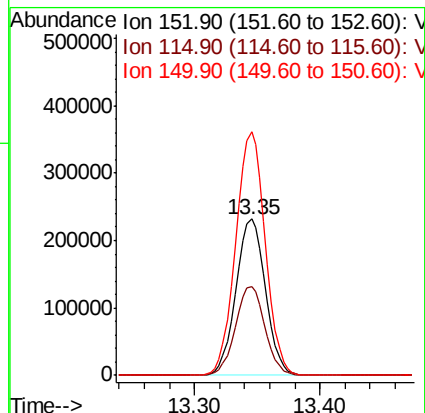
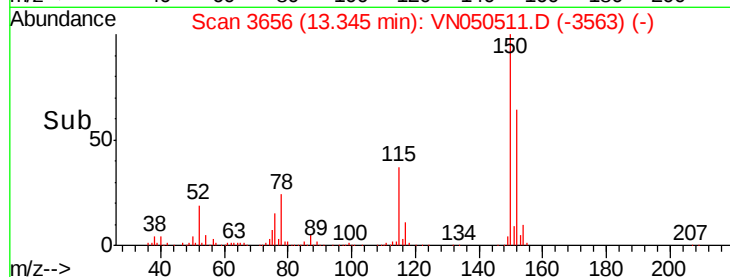
150 155.4 0.0 348.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 31.93 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050511.D

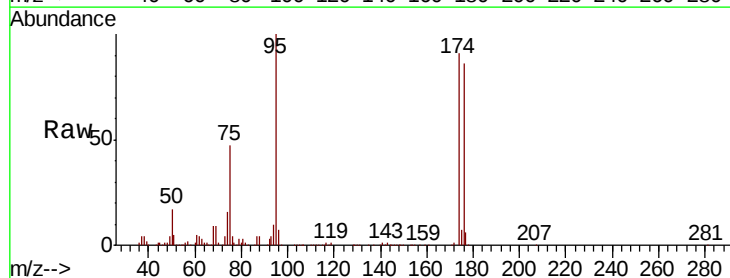
Acq: 10 Aug 2018 12:29

Tgt Ion: 75 Resp: 218881

Ion Ratio Lower Upper

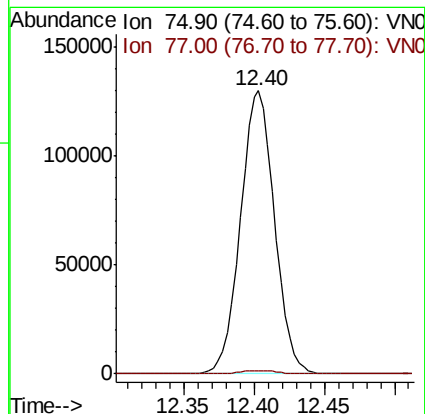
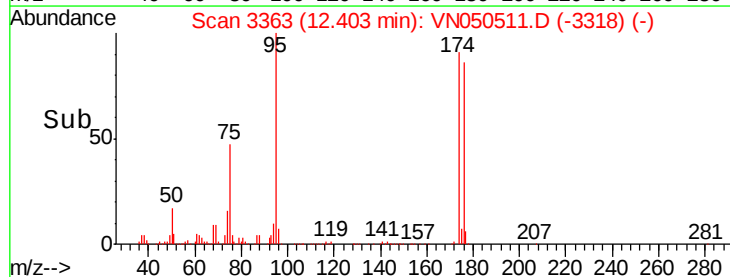
75 100

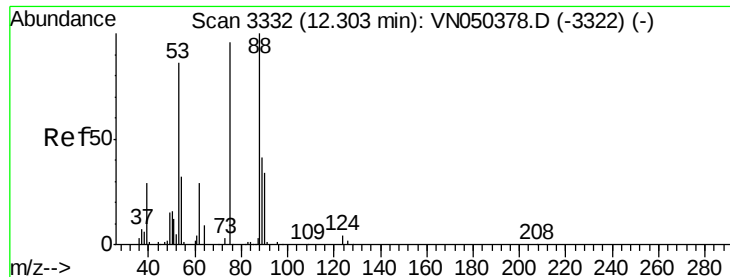
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 112.19 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050511.D

Acq: 10 Aug 2018 12:29

Instrument :

MSVOA_N

ClientSampled :

FB080918

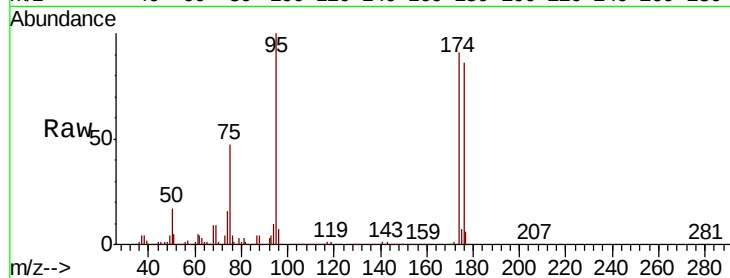
Tot Ion: 75 Resp: 218881

Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

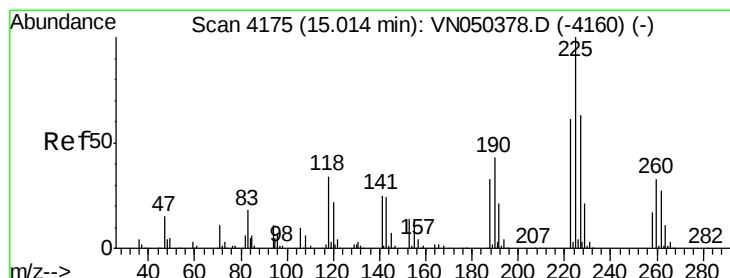
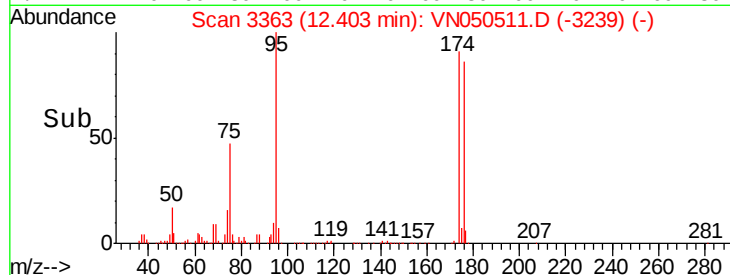
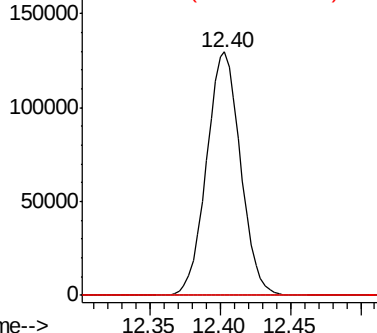
89 0.1 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4175

Delta R.T. 0.00 min

Lab File: VN050511.D

Acq: 10 Aug 2018 12:29

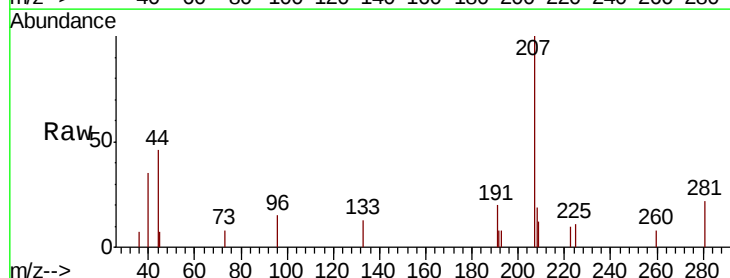
Tgt Ion: 225 Resp: 199

Ion Ratio Lower Upper

225 100

223 82.4 31.4 94.2

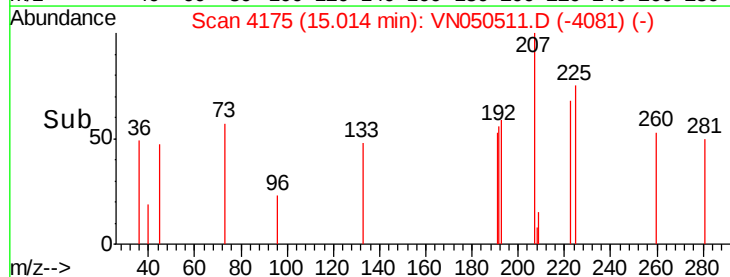
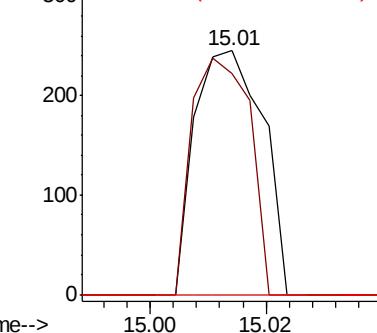
227 0.0 32.1 96.5#

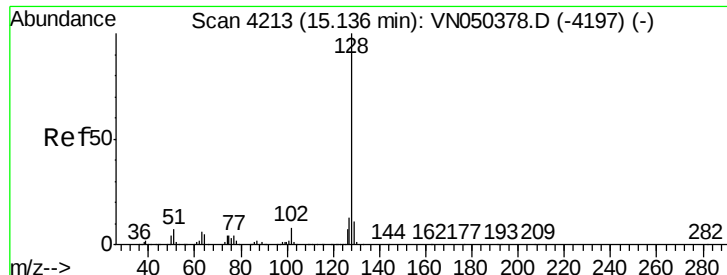


Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 3.72 ug/l

RT: 15.14 min Scan# 4215

Delta R.T. 0.01 min

Lab File: VN050511.D

Acq: 10 Aug 2018 12:29

Instrument :

MSVOA_N

ClientSampleId :

FB080918

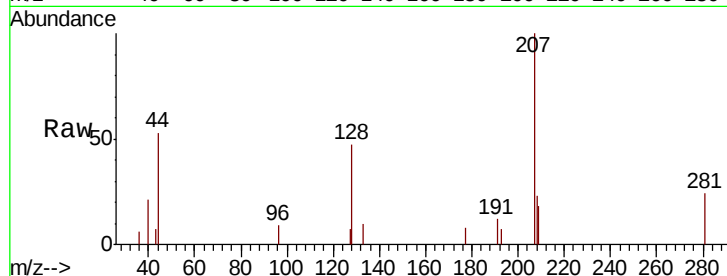
Tot Ion:128 Resp: 2015

Ion Ratio Lower Upper

128 100

127 8.1 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

