

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080618\
 Data File : VN050408.D
 Acq On : 7 Aug 2018 2:13
 Operator : MD\SY
 Sample : J4366-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SV30518L

Quant Time: Aug 07 07:14:07 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	639876	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1028061	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	881163	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	347900	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	447422	52.33	ug/l	0.00
Spiked Amount			Recovery	=	104.66%	
35) Dibromofluoromethane	7.59	113	402112	48.75	ug/l	0.00
Spiked Amount			Recovery	=	97.50%	
50) Toluene-d8	10.09	98	1422186	45.85	ug/l	0.00
Spiked Amount			Recovery	=	91.70%	
62) 4-Bromofluorobenzene	12.40	95	400979	37.93	ug/l	0.00
Spiked Amount			Recovery	=	75.86%	

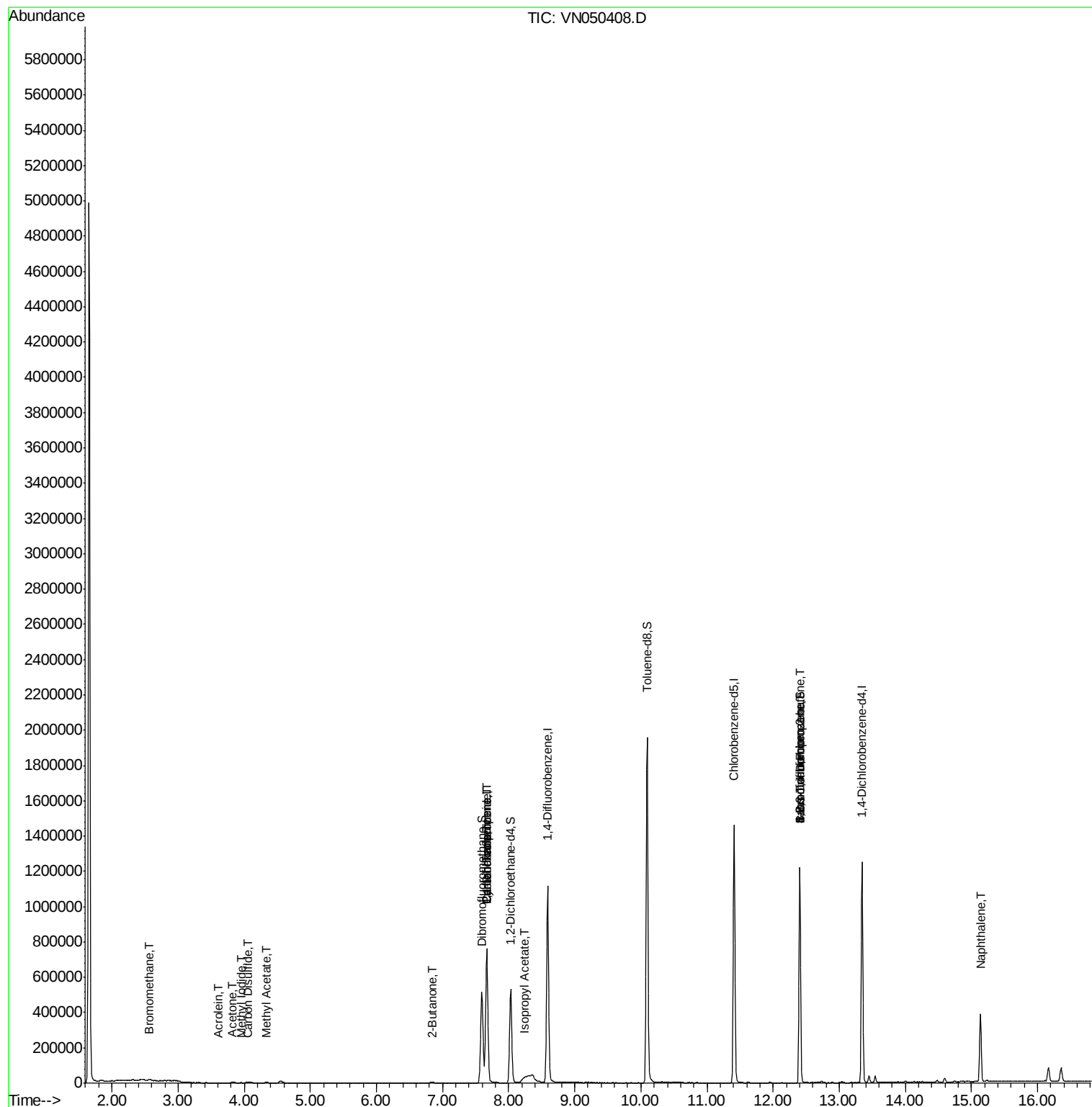
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	3733	Below Cal		100
5) Bromomethane	2.57	94	4648	1.21 ug/l		95
10) Methyl Iodide	3.95	142	1403	0.43 ug/l #		79
13) Acrolein	3.62	56	101	15.14 ug/l #		15
16) Acetone	3.82	43	10690	3.84 ug/l		97
17) Carbon Disulfide	4.05	76	5729	0.25 ug/l #		88
18) Methyl Acetate	4.33	43	6235	0.75 ug/l #		85
20) Methylene Chloride	4.55	84	4590	Below Cal		92
25) 2-Butanone	6.86	43	2442	0.58 ug/l #		86
31) Cyclohexane	7.67	56	12081	0.36 ug/l #		1
36) 1,1-Dichloropropene	7.67	75	45599	4.04 ug/l #		48
38) Carbon Tetrachloride	7.67	117	58637	4.98 ug/l #		16
43) Isopropyl Acetate	8.23	43	23807	1.70 ug/l #		61
71) Bromoform	12.40	173	3209	0.55 ug/l #		1
76) 1,2,3-Trichloropropane	12.40	75	190349	30.23 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	190349	106.20 ug/l #		13
95) Naphthalene	15.14	128	331621	21.88 ug/l		99

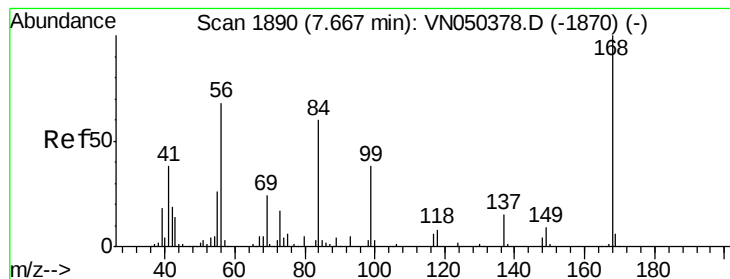
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN050408.D

Acq: 7 Aug 2018 2:13

Instrument :

MSVOA_N

ClientSampled :

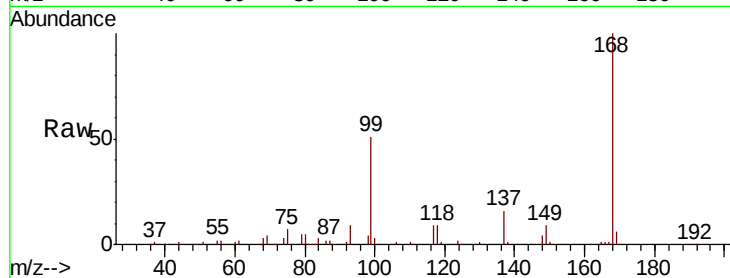
SV30518L

Tot Ion:168 Resp: 639876

Ion Ratio Lower Upper

168 100

99 50.6 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): VN050378.D (-1870) (-)

Ion 98.90 (98.60 to 99.60): VN050378.D (-1870) (-)

7.67

250000

200000

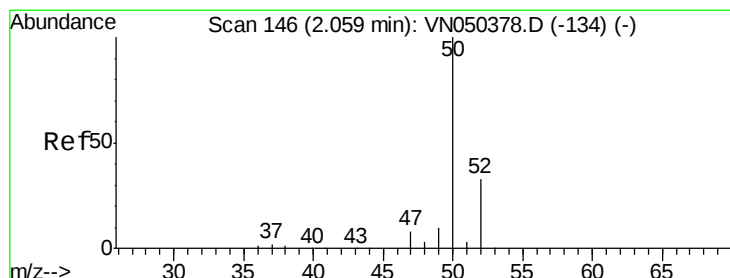
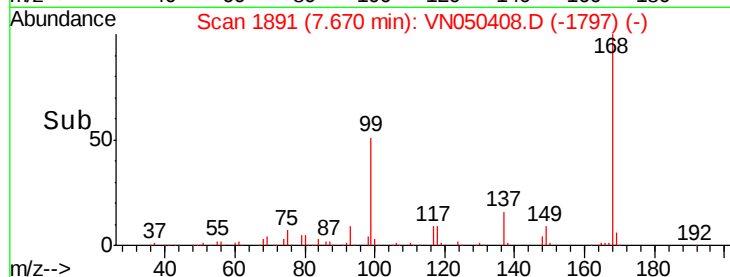
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050408.D

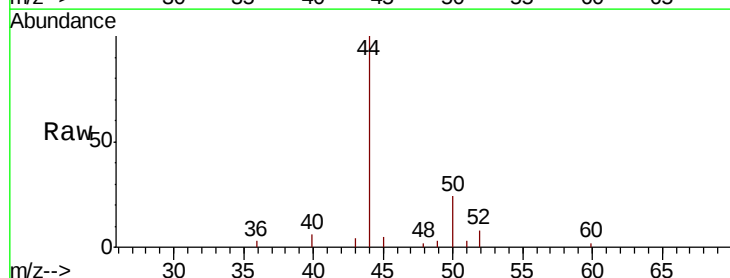
Acq: 7 Aug 2018 2:13

Tgt Ion: 50 Resp: 3733

Ion Ratio Lower Upper

50 100

52 32.4 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN050378.D (-134) (-)

Ion 51.90 (51.60 to 52.60): VN050378.D (-134) (-)

2.06

2500

2000

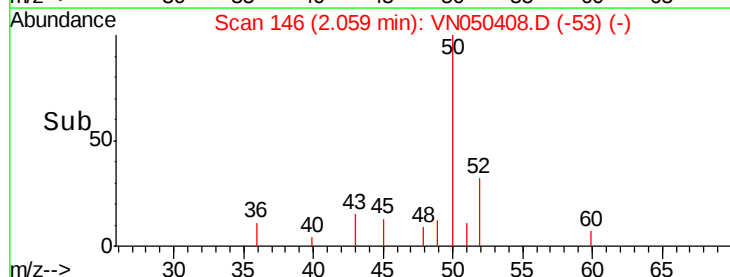
1500

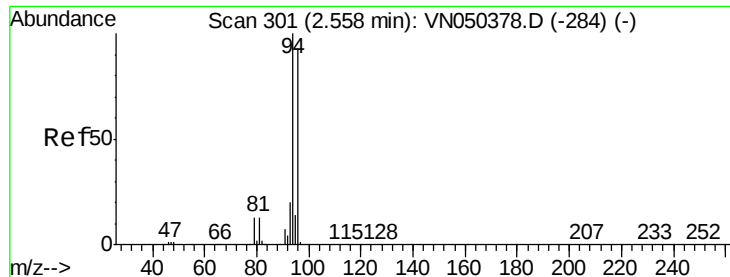
1000

500

0

Time-->





#5

Bromomethane

Concen: 1.21 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050408.D

Acq: 7 Aug 2018 2:13

Instrument :

MSVOA_N

ClientSampled :

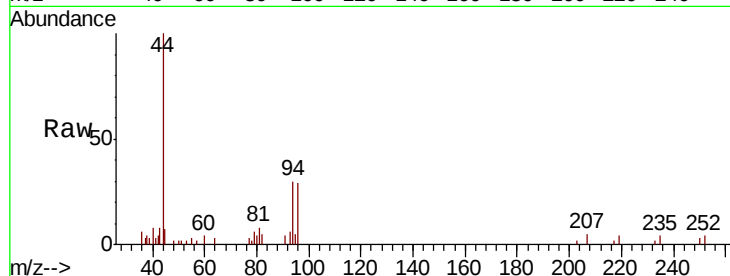
SV30518L

Tot Ion: 94 Resp: 4648

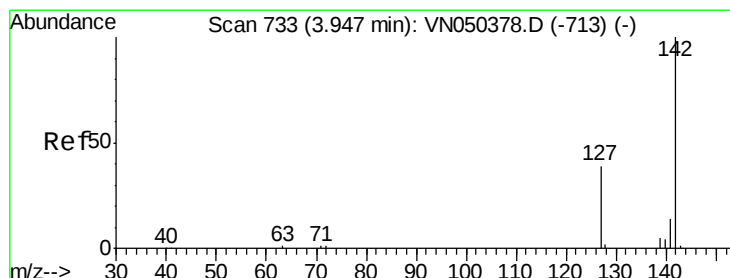
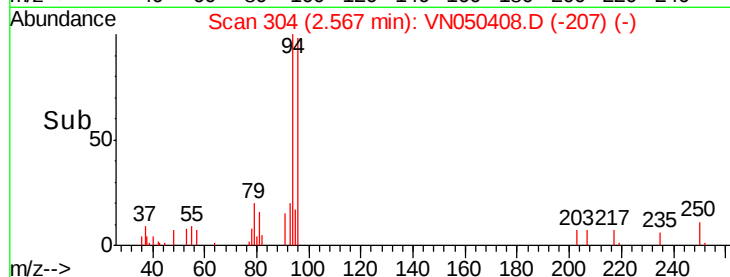
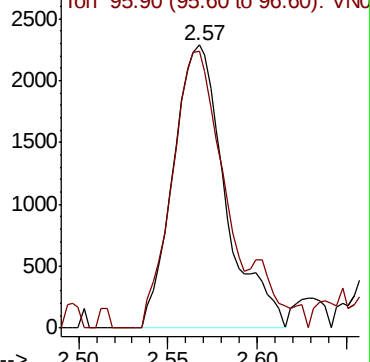
Ion Ratio Lower Upper

94 100

96 97.6 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN050378.D (-284) (-)



#10

Methyl Iodide

Concen: 0.43 ug/l

RT: 3.95 min Scan# 735

Delta R.T. 0.01 min

Lab File: VN050408.D

Acq: 7 Aug 2018 2:13

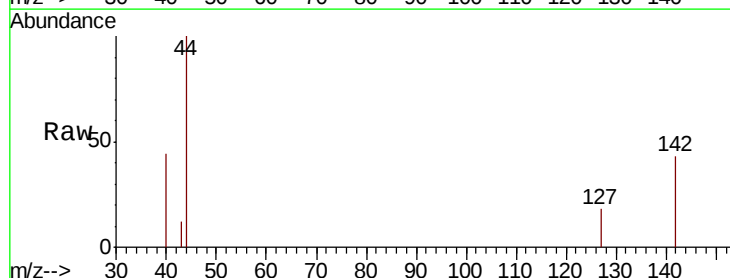
Tgt Ion: 142 Resp: 1403

Ion Ratio Lower Upper

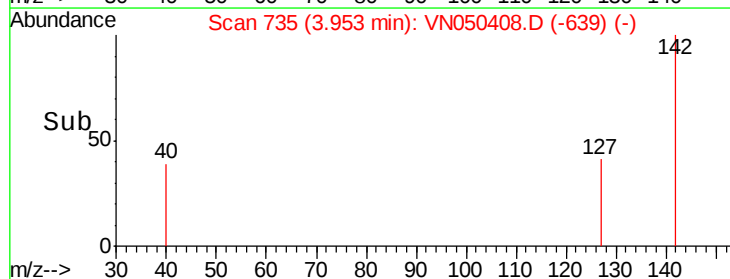
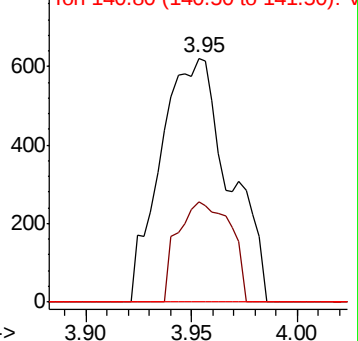
142 100

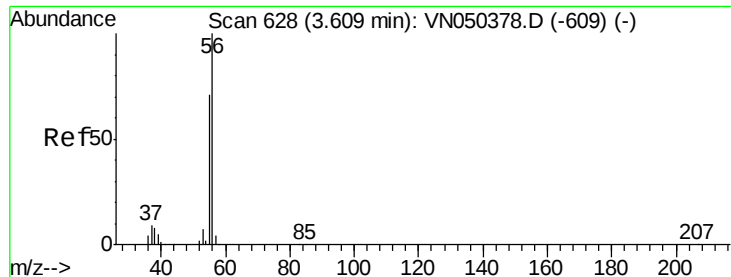
127 31.6 33.4 50.2#

141 0.0 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): VN050378.D (-713) (-)





#13

Acrolein

Concen: 15.14 ug/l

RT: 3.62 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN050408.D

Acq: 7 Aug 2018 2:13

Instrument :

MSVOA_N

ClientSampleId :

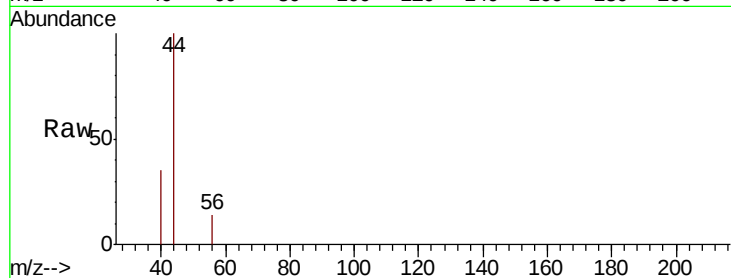
SV30518L

Tot Ion: 56 Resp: 101

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.6#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.62

200

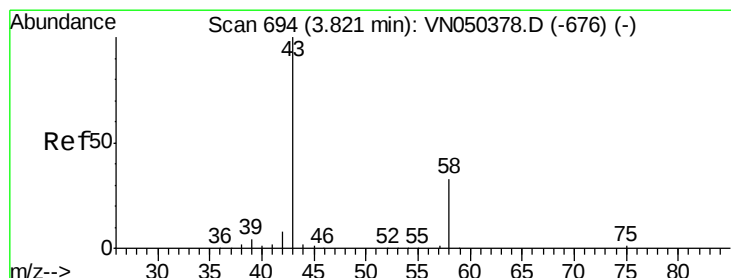
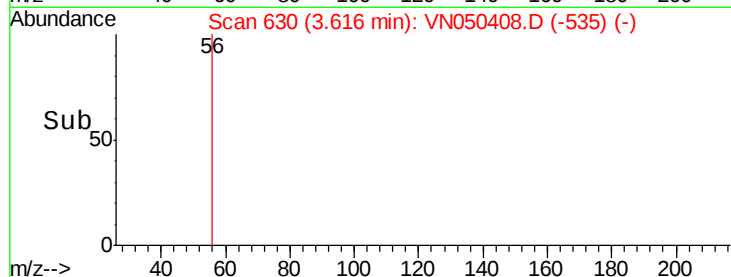
150

100

50

0

Time-->



#16

Acetone

Concen: 3.84 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN050408.D

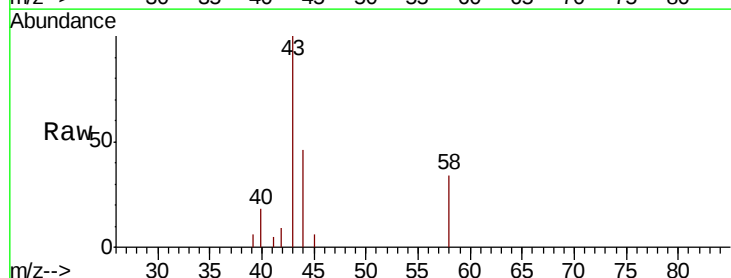
Acq: 7 Aug 2018 2:13

Tgt Ion: 43 Resp: 10690

Ion Ratio Lower Upper

43 100

58 33.8 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

4000

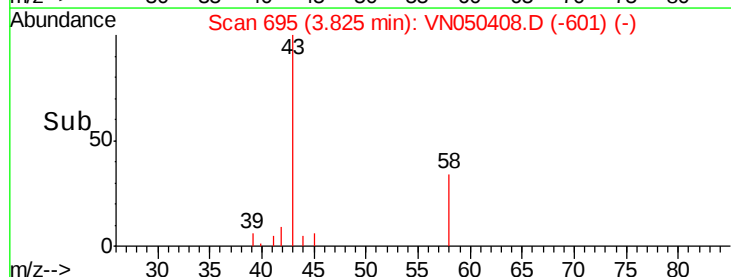
3000

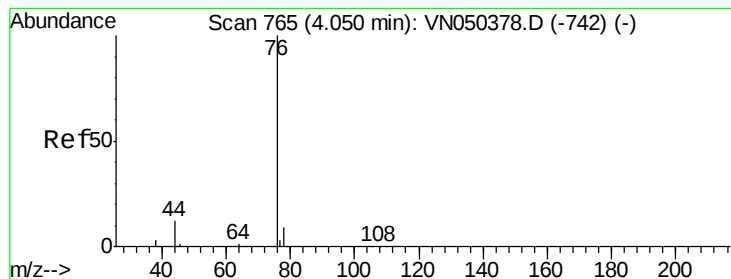
2000

1000

0

Time-->





#17

Carbon Disulfide

Concen: 0.25 ug/l

RT: 4.05 min Scan# 764

Delta R.T. -0.00 min

Lab File: VN050408.D

Acq: 7 Aug 2018 2:13

Instrument :

MSVOA_N

ClientSampleId :

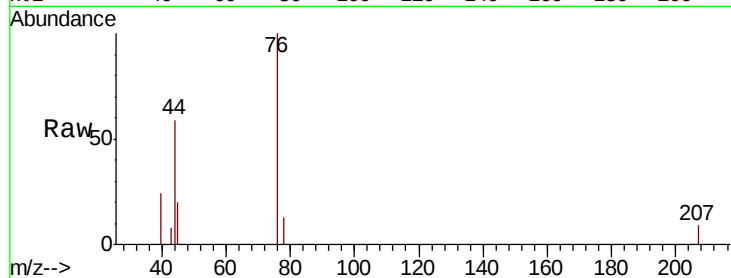
SV30518L

Tot Ion: 76 Resp: 5729

Ion Ratio Lower Upper

76 100

78 13.3 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.05

2500

2000

1500

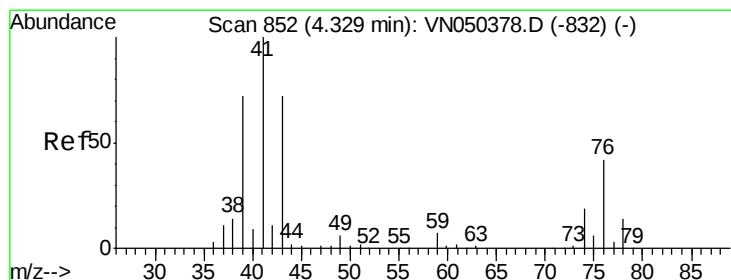
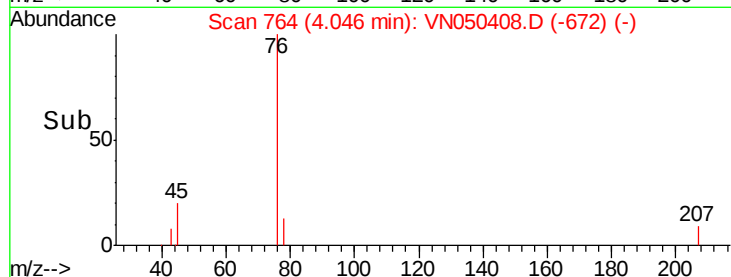
1000

500

0

4.00 4.05 4.10

Time-->



#18

Methyl Acetate

Concen: 0.75 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.00 min

Lab File: VN050408.D

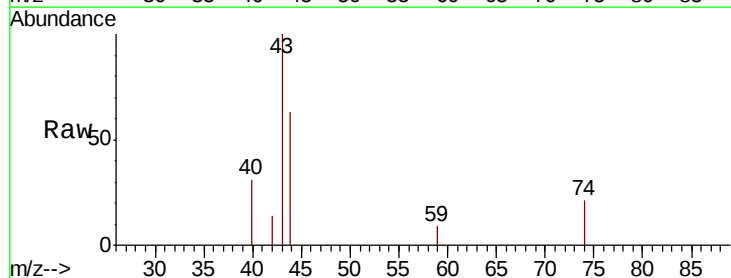
Acq: 7 Aug 2018 2:13

Tgt Ion: 43 Resp: 6235

Ion Ratio Lower Upper

43 100

74 16.5 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.33

2000

1500

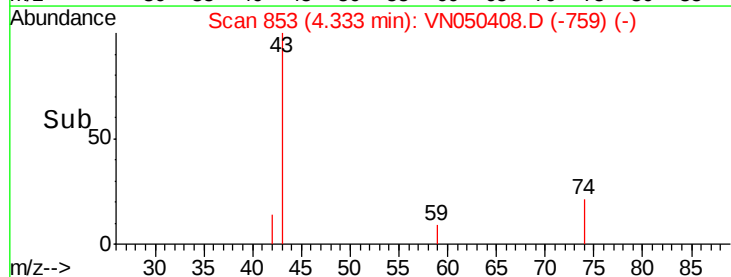
1000

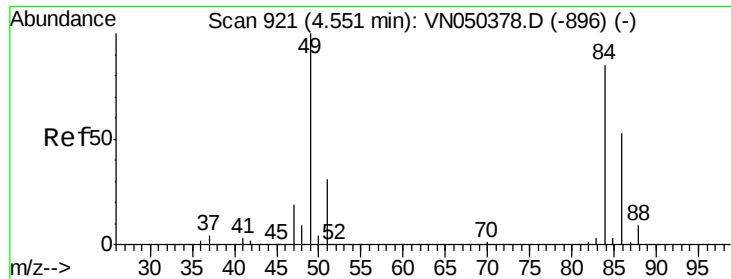
500

0

4.25 4.30 4.35 4.40

Time-->





#20

Methvlene Chloride

Concen: Below Cal

RT: 4.55 min Scan# 920

Delta R.T. -0.00 min

Lab File: VN050408.D

Acq: 7 Aug 2018 2:13

Instrument :

MSVOA_N

ClientSampleId :

SV30518L

Tot Ion: 84 Resp: 4590

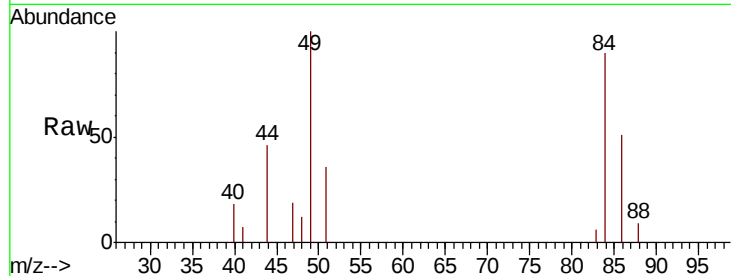
Ion Ratio Lower Upper

84 100

49 111.1 94.8 142.2

51 40.3 28.3 42.5

86 56.4 51.0 76.6

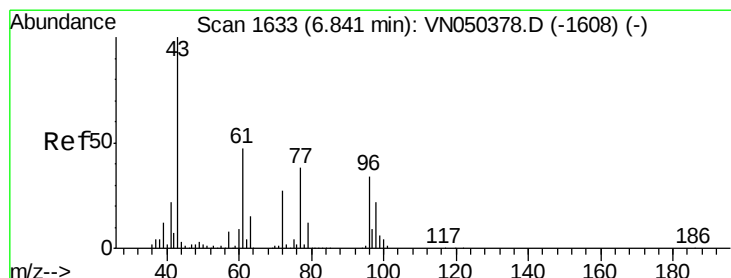
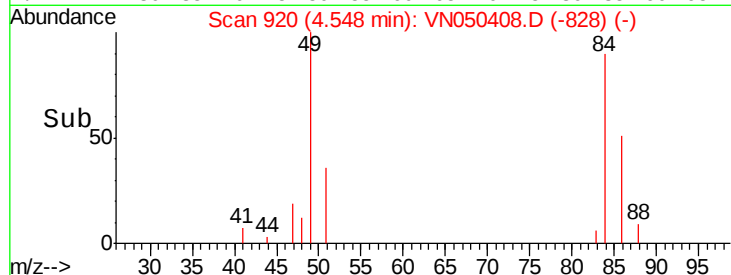
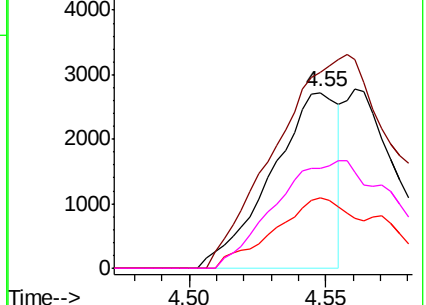


Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO



#25

2-Butanone

Concen: 0.58 ug/l

RT: 6.86 min Scan# 1639

Delta R.T. 0.02 min

Lab File: VN050408.D

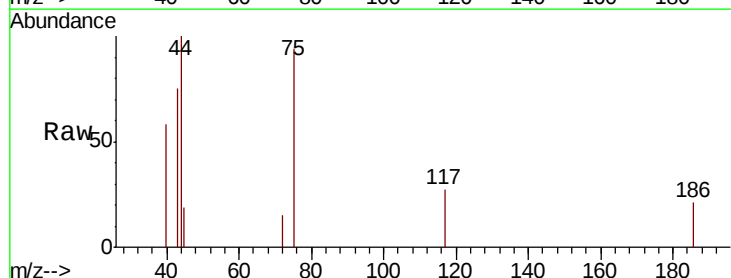
Acq: 7 Aug 2018 2:13

Tgt Ion: 43 Resp: 2442

Ion Ratio Lower Upper

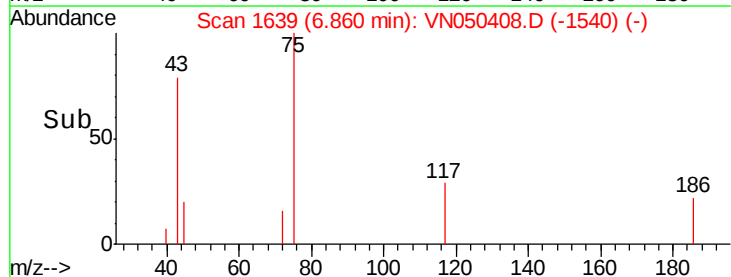
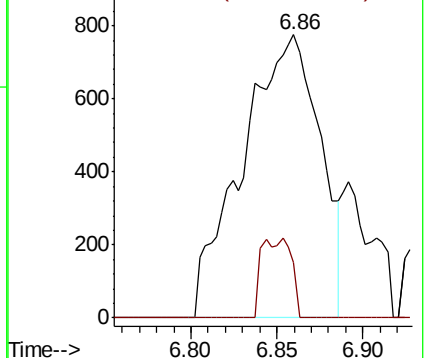
43 100

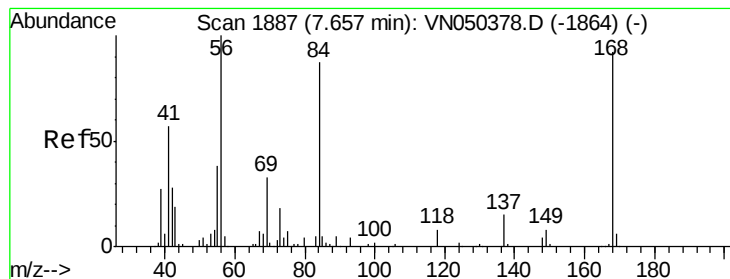
72 19.7 21.5 32.3#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO





#31

Cyclohexane

Concen: 0.36 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050408.D

Acq: 7 Aug 2018 2:13

Instrument :

MSVOA_N

ClientSampleId :

SV30518L

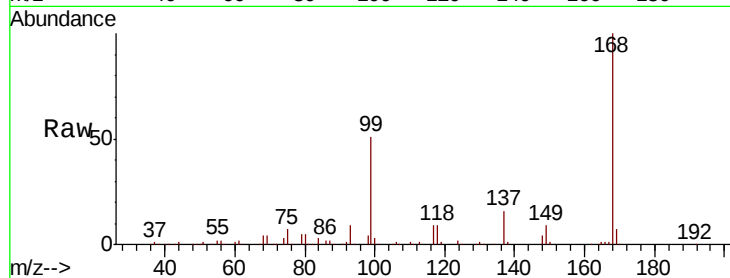
Tot Ion: 56 Resp: 12081

Ion Ratio Lower Upper

56 100

69 197.2 26.2 39.4#

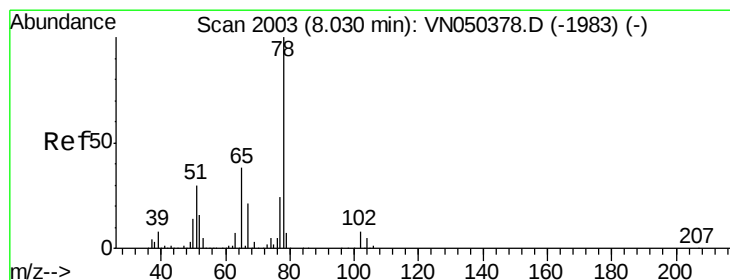
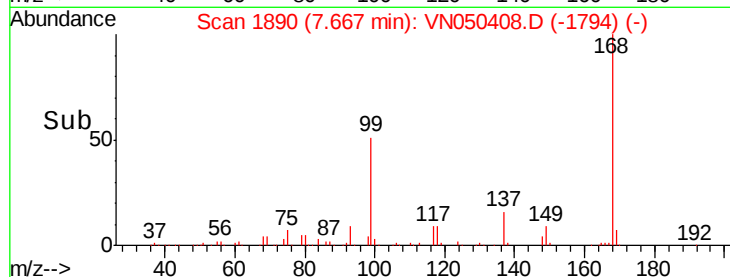
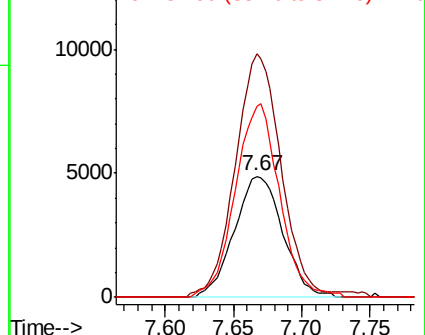
84 157.9 67.4 101.0#



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: 52.33 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. -0.00 min

Lab File: VN050408.D

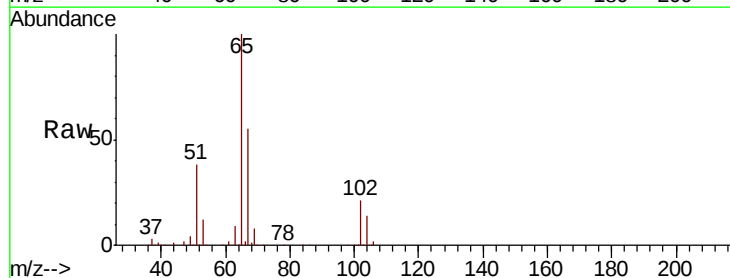
Acq: 7 Aug 2018 2:13

Tgt Ion: 65 Resp: 447422

Ion Ratio Lower Upper

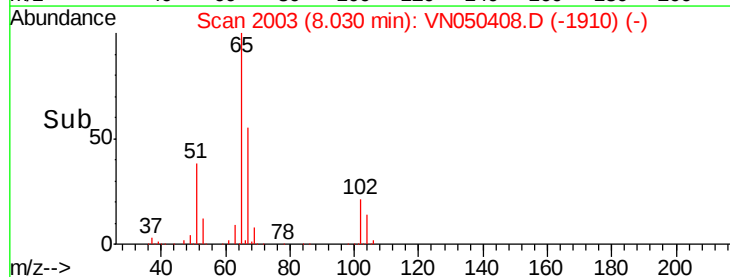
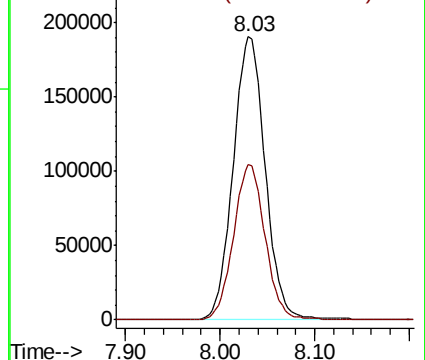
65 100

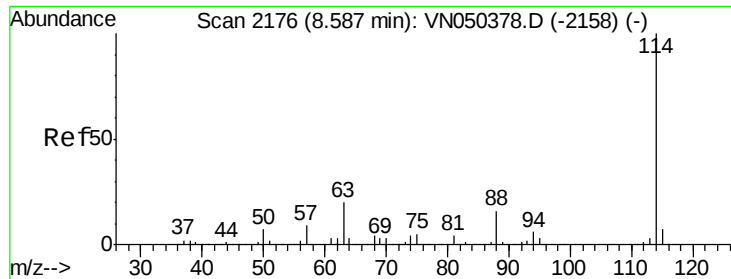
67 54.2 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

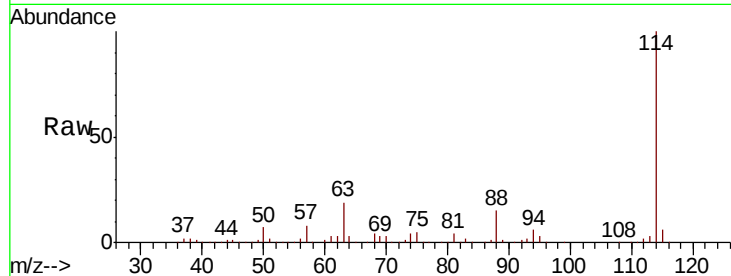




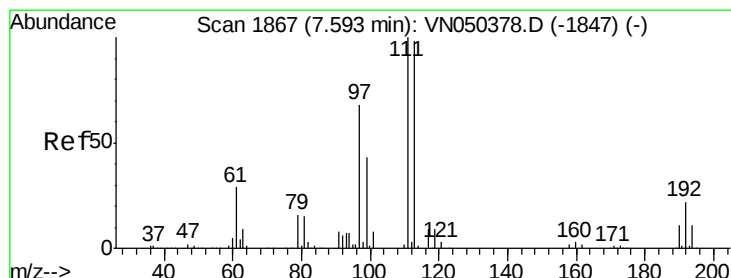
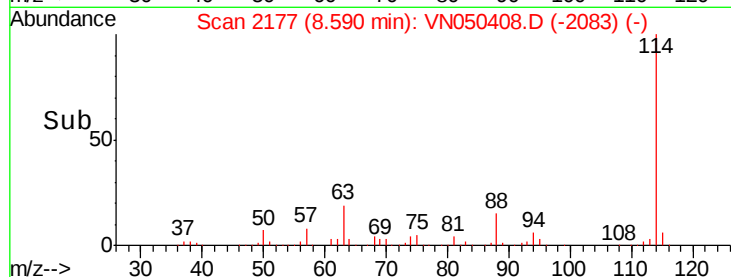
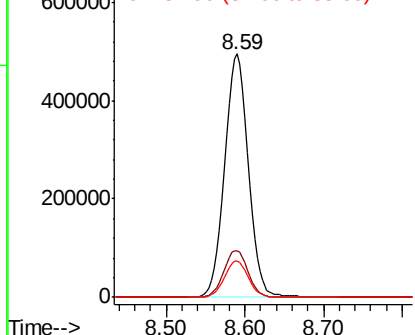
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050408.D
 Acq: 7 Aug 2018 2:13

Instrument :
 MSVOA_N
 ClientSampleId :
 SV30518L

Tot Ion:114 Resp: 1028061
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 40.0
 88 15.1 0.0 31.2

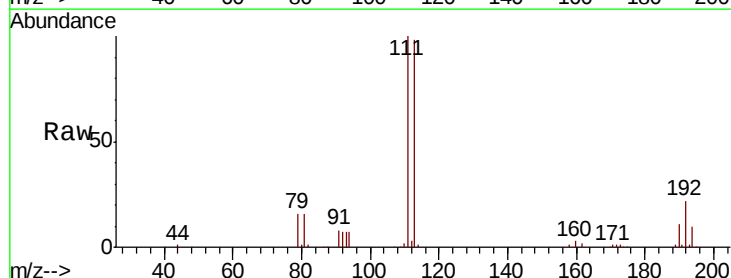


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

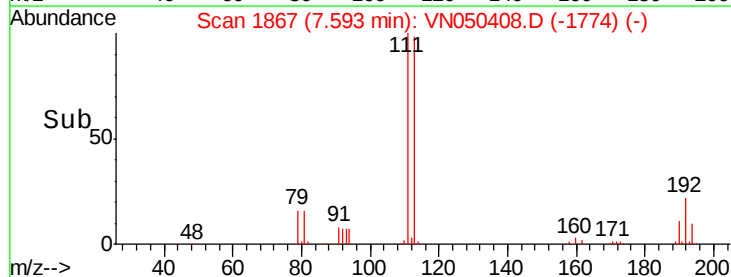
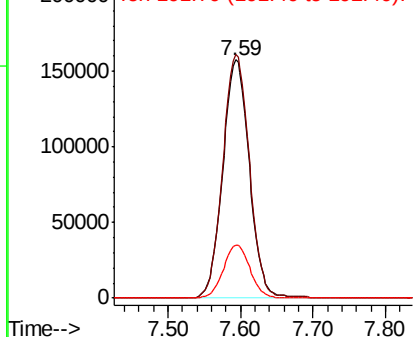


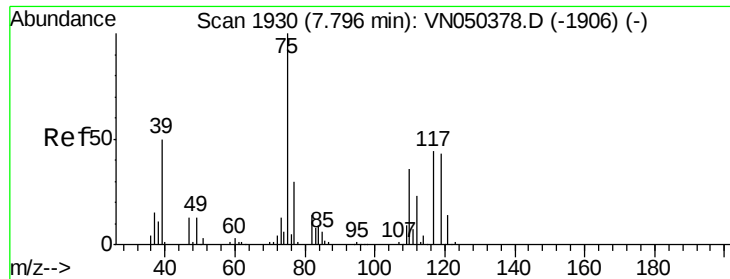
#35
 Dibromofluoromethane
 Concen: 48.75 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050408.D
 Acq: 7 Aug 2018 2:13

Tgt Ion:113 Resp: 402112
 Ion Ratio Lower Upper
 113 100
 111 102.3 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

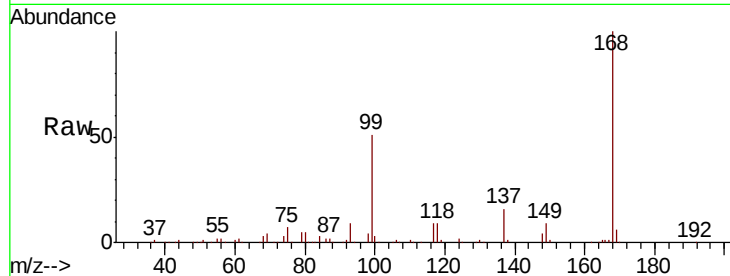




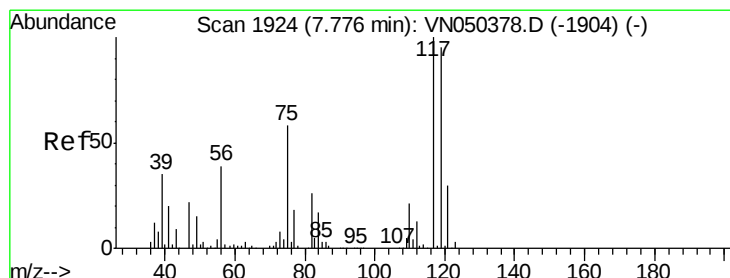
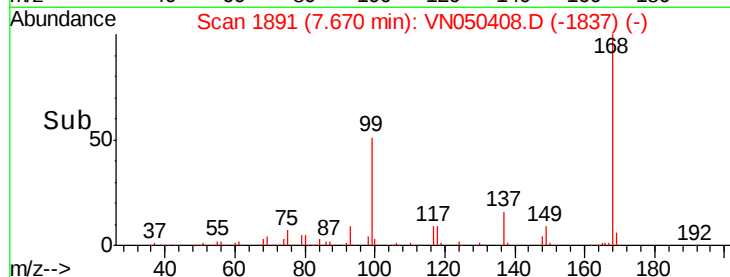
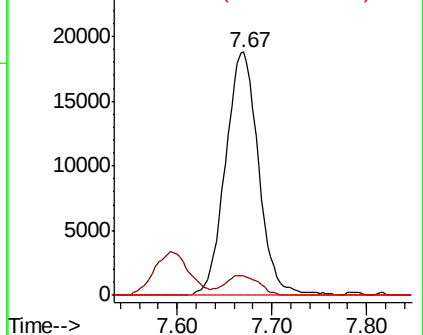
#36
 1,1-Dichloropropene
 Concen: 4.04 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.13 min
 Lab File: VN050408.D
 Acq: 7 Aug 2018 2:13

Instrument :
 MSVOA_N
 ClientSampled :
 SV30518L

Tot Ion	75	Resp	45599
Ion Ratio	Lower	Upper	
75	100		
110	8.3	18.4	55.2#
77	0.0	25.3	37.9#

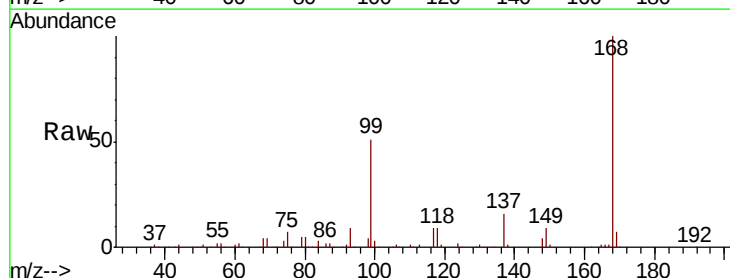


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

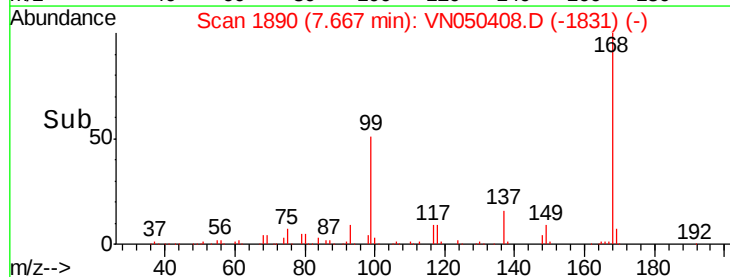
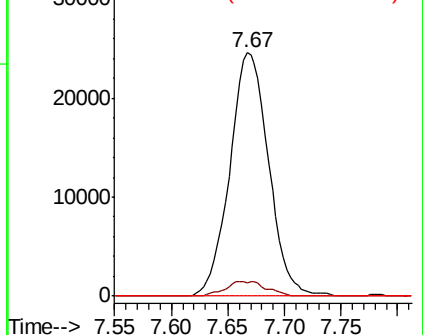


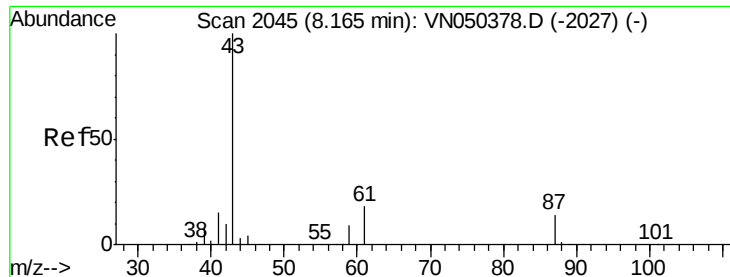
#38
 Carbon Tetrachloride
 Concen: 4.98 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN050408.D
 Acq: 7 Aug 2018 2:13

Tgt Ion	117	Resp	58637
Ion Ratio	Lower	Upper	
117	100		
119	5.6	77.4	116.0#
121	0.0	23.9	35.9#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 1.70 ug/l

RT: 8.23 min Scan# 2065

Delta R.T. 0.06 min

Lab File: VN050408.D

Acq: 7 Aug 2018 2:13

Instrument :

MSVOA_N

ClientSampleId :

SV30518L

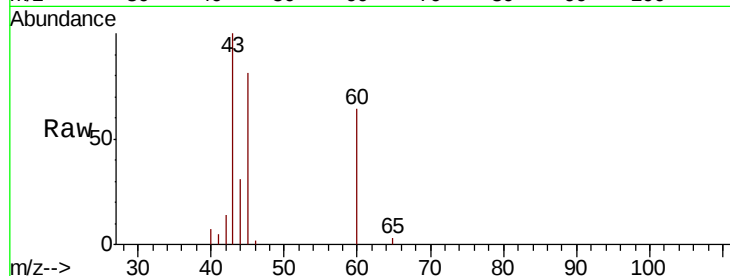
Tot Ion: 43 Resp: 23807

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.6#

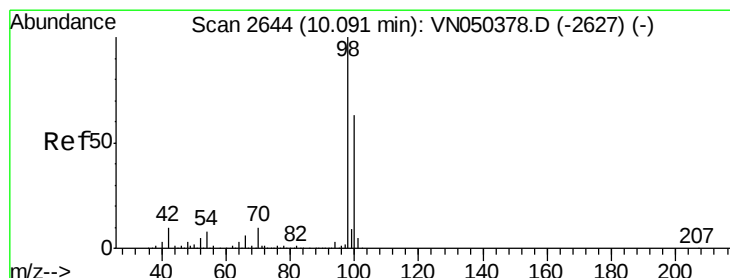
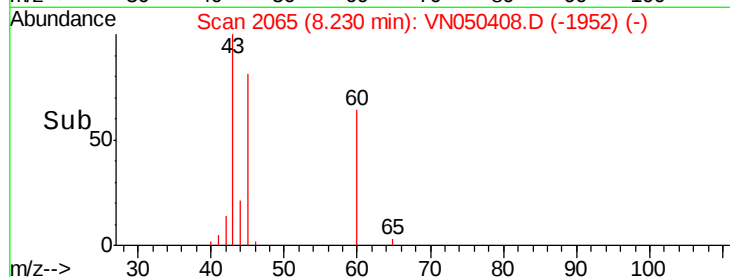
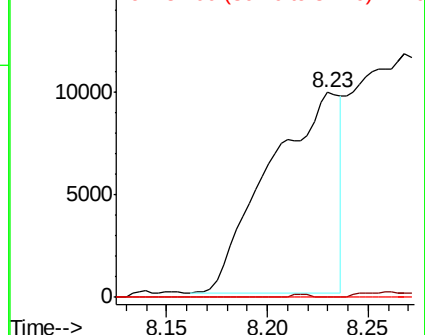
87 0.0 10.3 15.5#



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: 45.85 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050408.D

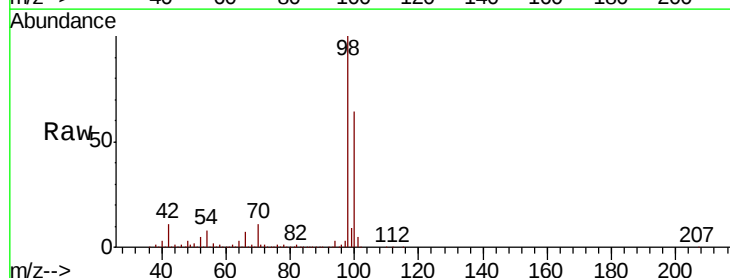
Acq: 7 Aug 2018 2:13

Tgt Ion: 98 Resp: 1422186

Ion Ratio Lower Upper

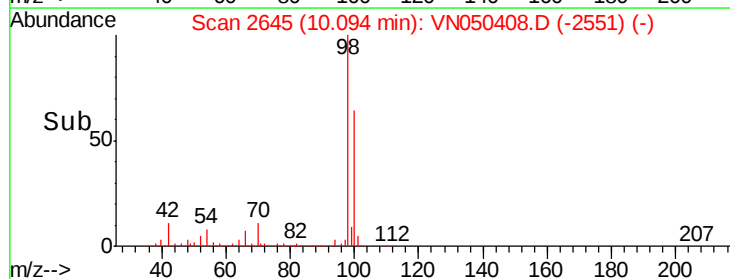
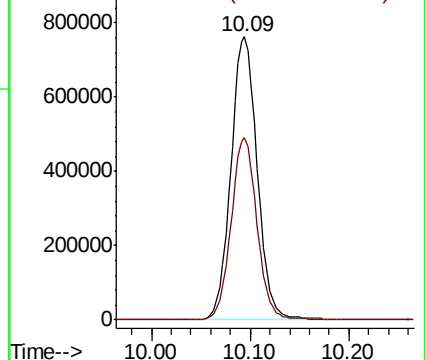
98 100

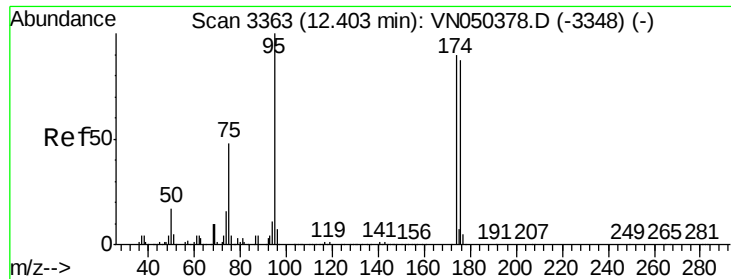
100 63.5 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

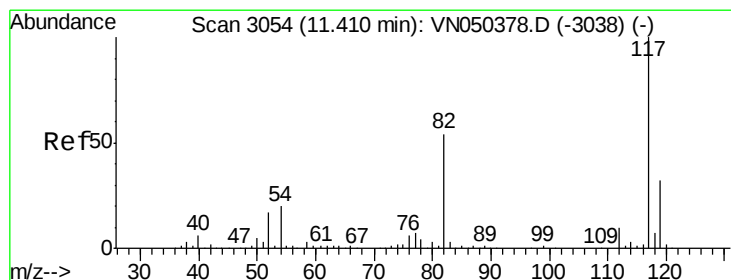
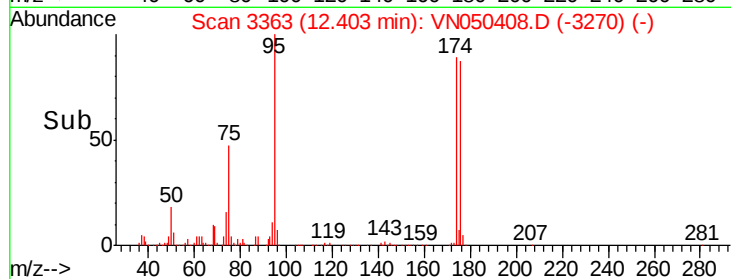
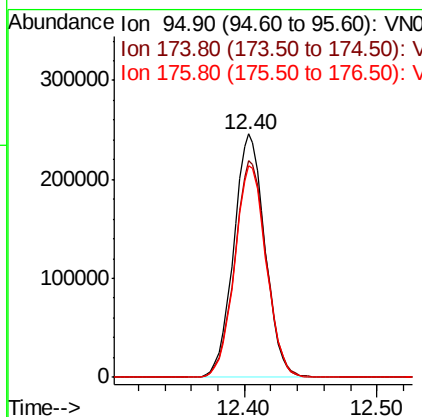
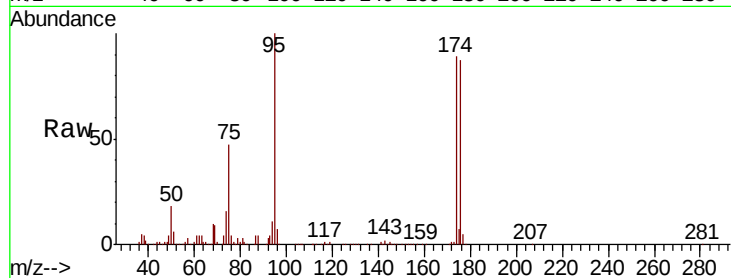




#62
4-Bromofluorobenzene
Concen: 37.93 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. -0.00 min
Lab File: VN050408.D
Acq: 7 Aug 2018 2:13

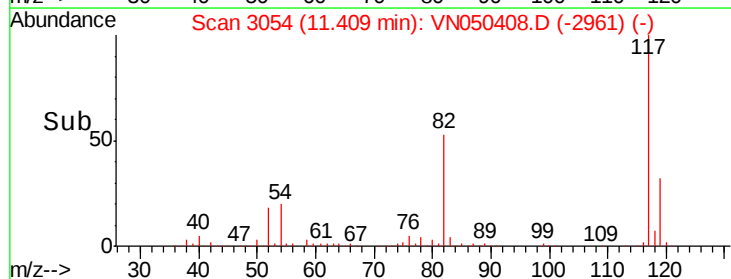
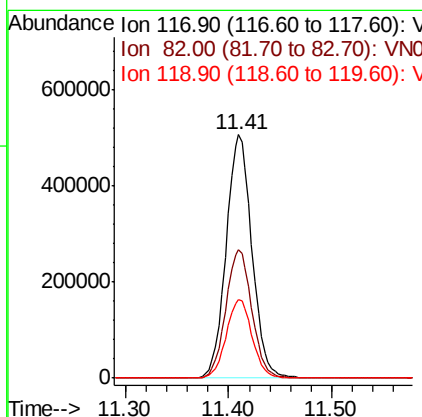
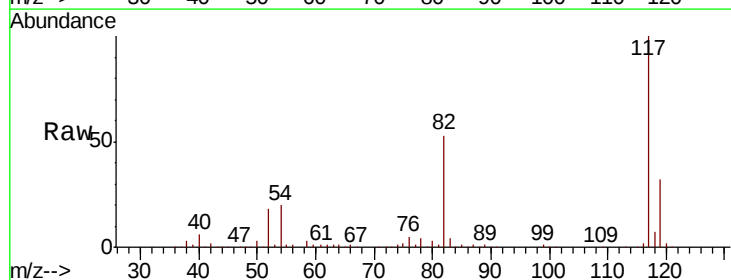
Instrument :
MSVOA_N
ClientSampleId :
SV30518L

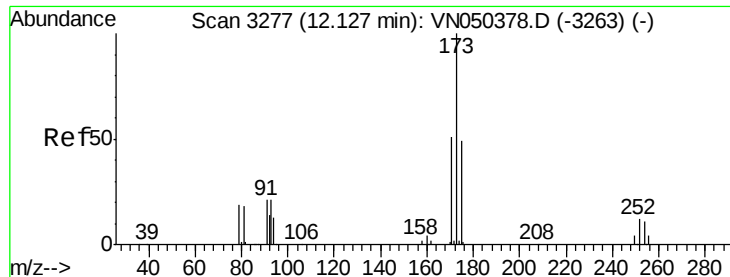
Tot Ion: 95 Resp: 400979
Ion Ratio Lower Upper
95 100
174 90.7 0.0 178.2
176 87.9 0.0 173.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050408.D
Acq: 7 Aug 2018 2:13

Tgt Ion: 117 Resp: 881163
Ion Ratio Lower Upper
117 100
82 52.9 43.7 65.5
119 32.2 26.1 39.1





#71

Bromoform

Concen: 0.55 ug/l

RT: 12.40 min Scan# 3362

Delta R.T. 0.27 min

Lab File: VN050408.D

Acq: 7 Aug 2018 2:13

Instrument :

MSVOA_N

ClientSampled :

SV30518L

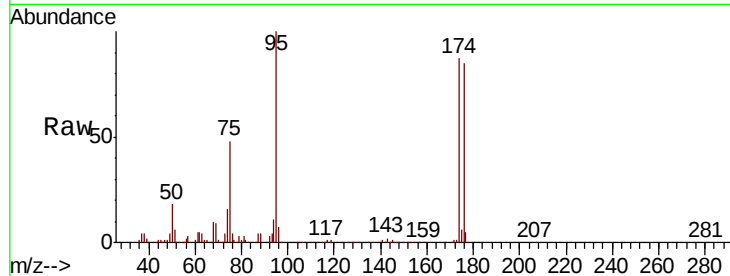
Tot Ion:173 Resp: 3209

Ion Ratio Lower Upper

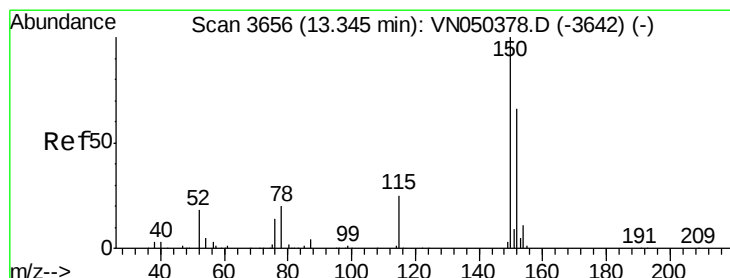
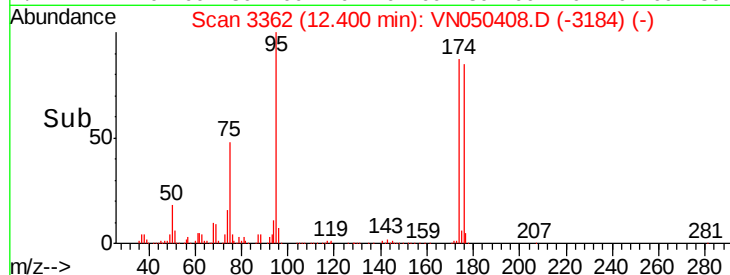
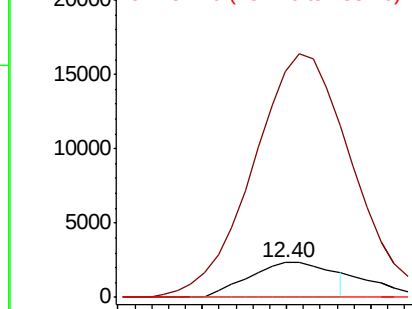
173 100

175 686.8 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: VN050408.D

Acq: 7 Aug 2018 2:13

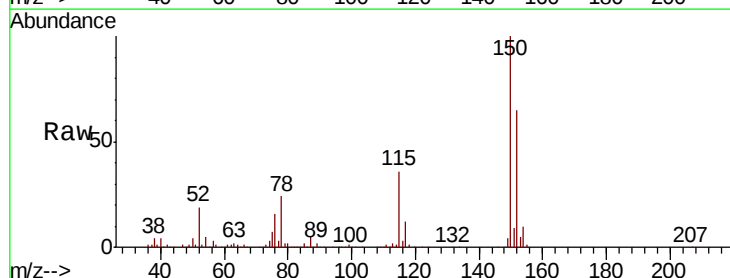
Tgt Ion:152 Resp: 347900

Ion Ratio Lower Upper

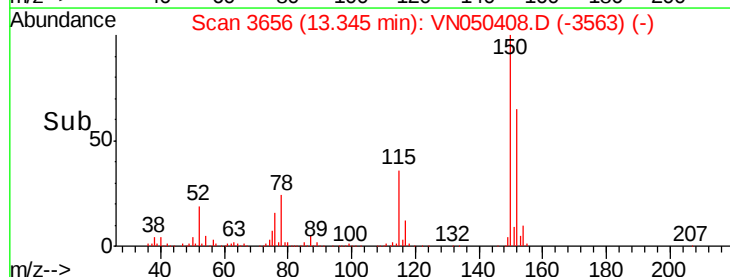
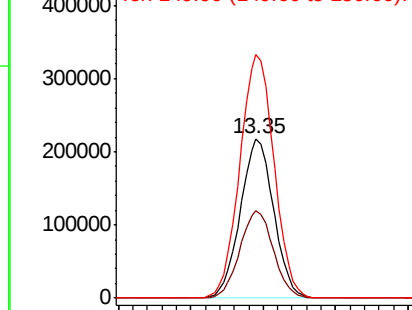
152 100

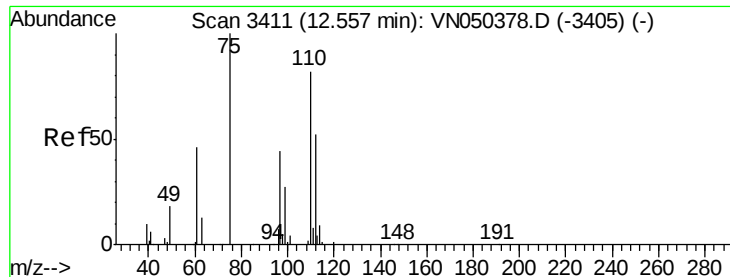
115 55.3 27.8 83.3

150 156.5 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





#76

1,2,3-Trichloropropane

Concen: 30.23 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050408.D

Acq: 7 Aug 2018 2:13

Instrument :

MSVOA_N

ClientSampleId :

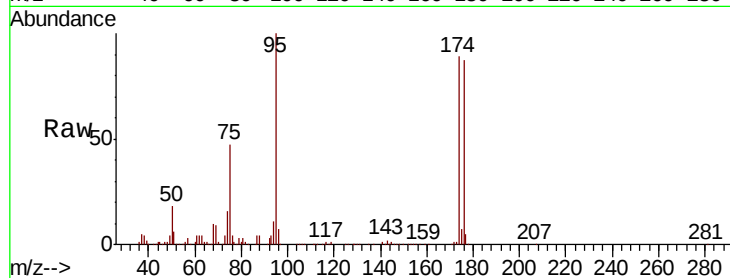
SV30518L

Tot Ion: 75 Resp: 190349

Ion Ratio Lower Upper

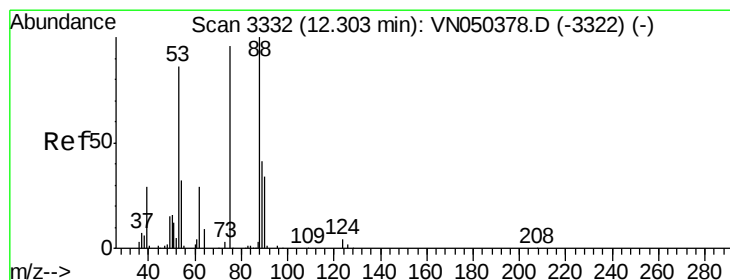
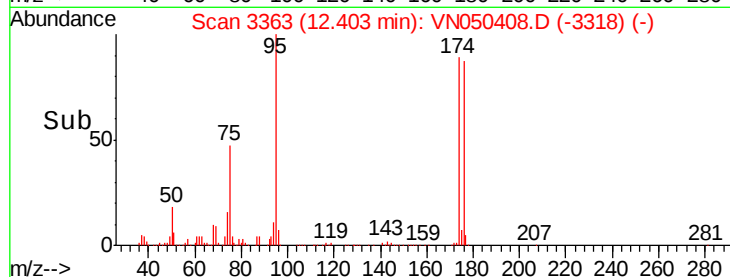
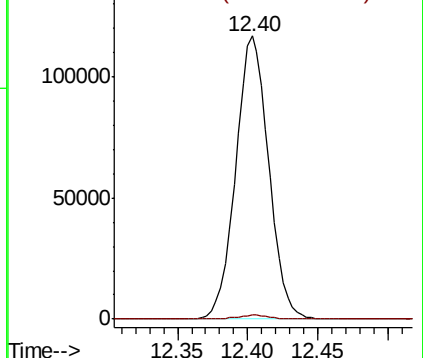
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 106.20 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050408.D

Acq: 7 Aug 2018 2:13

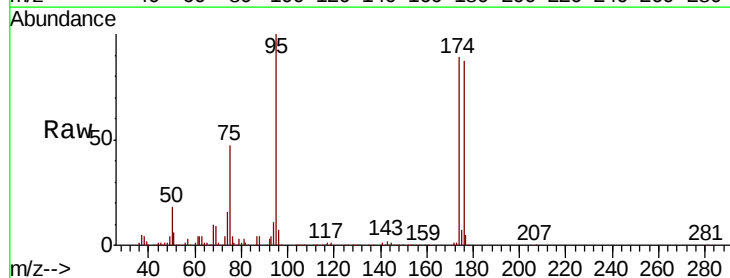
Tgt Ion: 75 Resp: 190349

Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

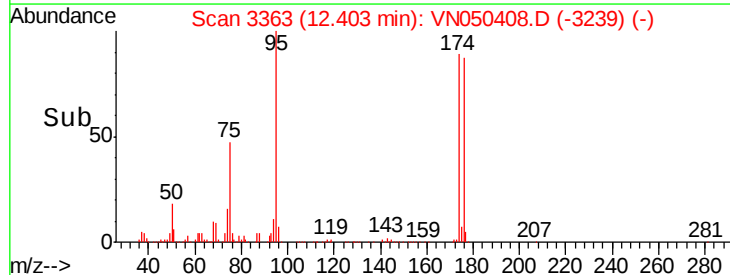
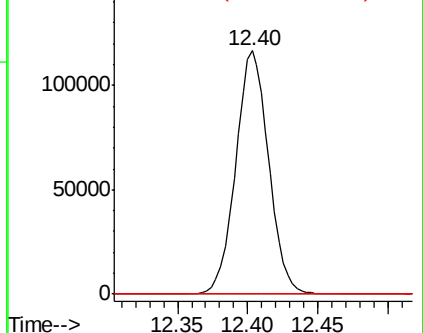
89 0.0 36.0 54.0#

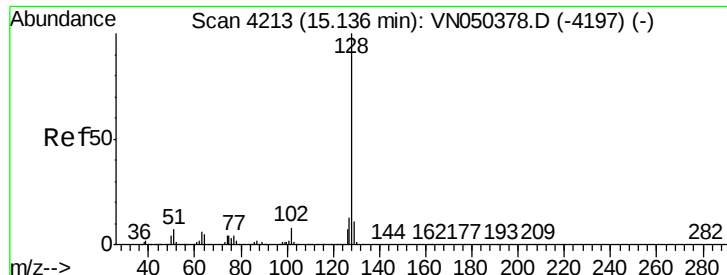


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

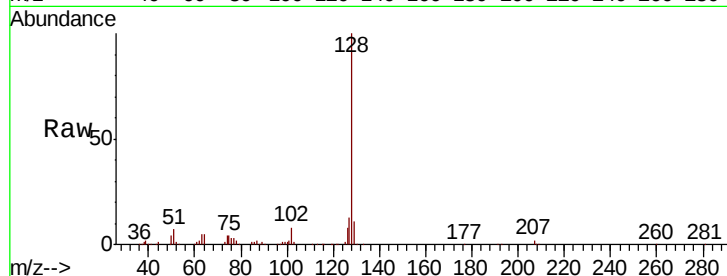




#95
 Naphthalene
 Concen: 21.88 ug/l
 RT: 15.14 min Scan# 4213
 Delta R.T. 0.00 min
 Lab File: VN050408.D
 Acq: 7 Aug 2018 2:13

Instrument :
 MSVOA_N
 ClientSampleId :
 SV30518L

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.4	15.6
129	10.9	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

