

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081318\
 Data File : VN050579.D
 Acq On : 13 Aug 2018 19:40
 Operator : MD\SY
 Sample : PB111961ZHE#12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111961ZHE#12

Quant Time: Aug 14 01:02:54 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	636678	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1068170	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	934105	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	347990	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	438154	51.51	ug/l	0.00
Spiked Amount			Recovery	=	103.02%	
35) Dibromofluoromethane	7.59	113	404366	47.18	ug/l	0.00
Spiked Amount			Recovery	=	94.36%	
50) Toluene-d8	10.09	98	1472974	45.71	ug/l	0.00
Spiked Amount			Recovery	=	91.42%	
62) 4-Bromofluorobenzene	12.40	95	418359	38.09	ug/l	0.00
Spiked Amount			Recovery	=	76.18%	

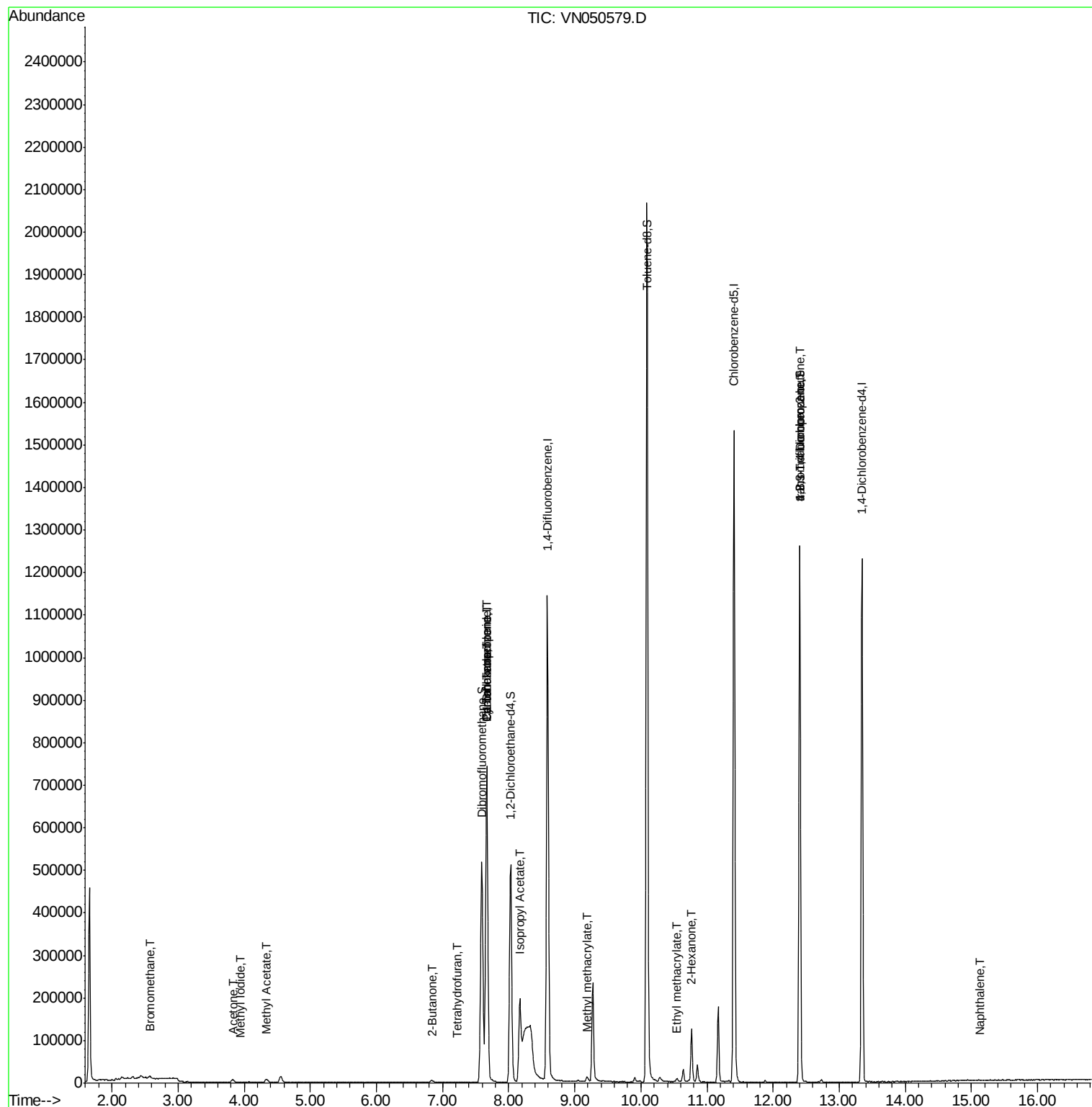
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2821	Below Cal		100
5) Bromomethane	2.57	94	3344	0.92 ug/l		94
10) Methyl Iodide	3.96	142	858	0.27 ug/l #		42
16) Acetone	3.82	43	13712	5.05 ug/l		97
18) Methyl Acetate	4.33	43	16705	2.35 ug/l #		67
20) Methylene Chloride	4.55	84	11223	Below Cal #		94
25) 2-Butanone	6.84	43	2888	0.69 ug/l #		82
29) Tetrahydrofuran	7.22	42	547	0.24 ug/l #		50
31) Cyclohexane	7.67	56	11462	0.31 ug/l #		1
36) 1,1-Dichloropropene	7.67	75	44441	3.79 ug/l #		48
38) Carbon Tetrachloride	7.67	117	56253	4.59 ug/l #		16
43) Isopropyl Acetate	8.17	43	253790	17.39 ug/l		95
48) Methyl methacrylate	9.18	41	6775	0.93 ug/l #		17
56) Ethyl methacrylate	10.54	69	105	1.72 ug/l #		1
59) 2-Hexanone	10.76	43	16493	2.25 ug/l #		59
76) 1,2,3-Trichloropropane	12.40	75	203688	32.34 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	203688	113.62 ug/l #		13
95) Naphthalene	15.13	128	274	3.64 ug/l #		69

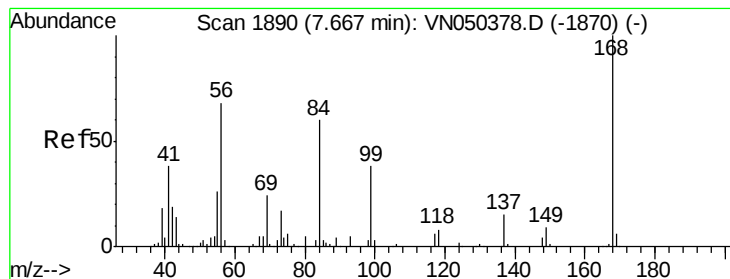
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN050579.D

Acq: 13 Aug 2018 19:40

Instrument :

MSVOA_N

ClientSampleId :

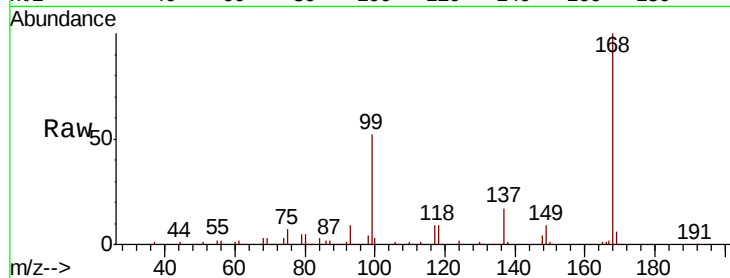
PB111961ZHE#12

Tot Ion:168 Resp: 636678

Ion Ratio Lower Upper

168 100

99 52.1 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

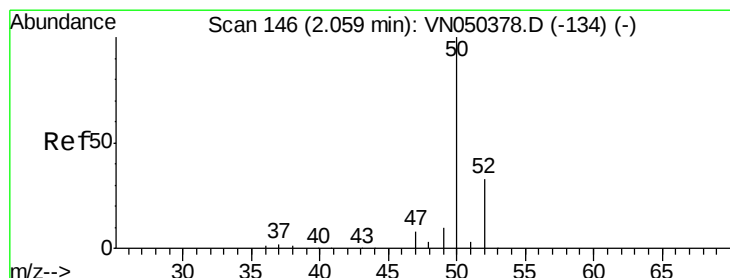
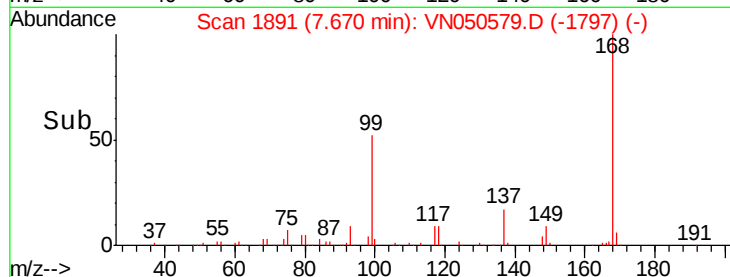
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050579.D

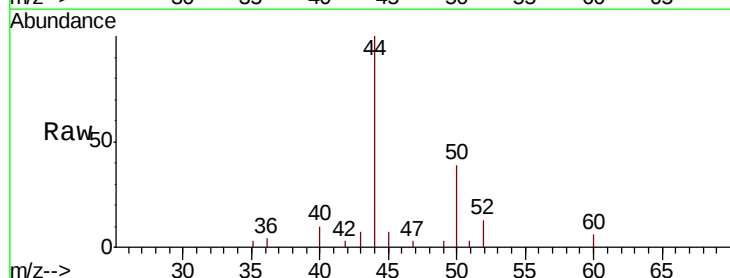
Acq: 13 Aug 2018 19:40

Tgt Ion: 50 Resp: 2821

Ion Ratio Lower Upper

50 100

52 32.3 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2500

2000

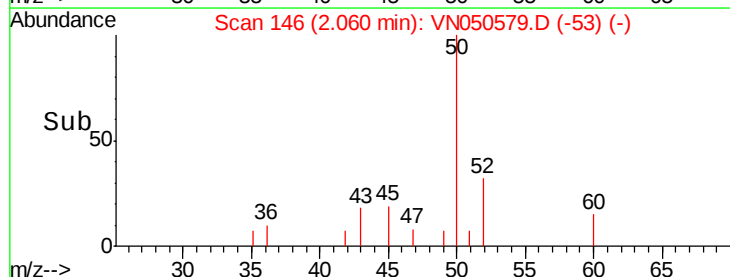
1500

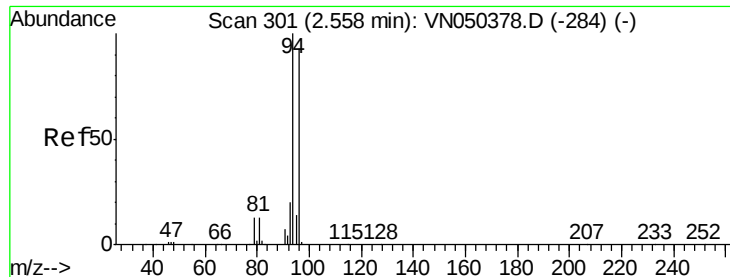
1000

500

0

Time-->





#5

Bromomethane

Concen: 0.92 ug/l

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN050579.D

Acq: 13 Aug 2018 19:40

Instrument :

MSVOA_N

ClientSampleId :

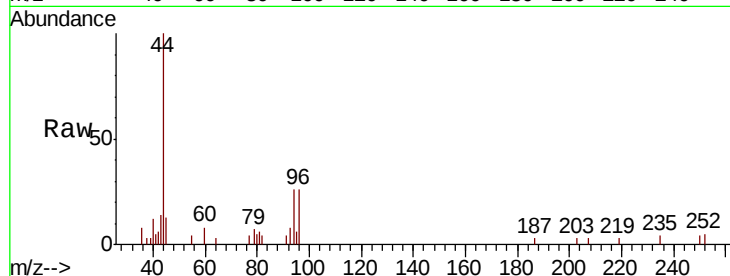
PB111961ZHE#12

Tot Ion: 94 Resp: 3344

Ion Ratio Lower Upper

94 100

96 87.9 74.6 112.0



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

Ion 95.90 (95.60 to 96.60): VN050378.D (-284) (-)

2.57

1500

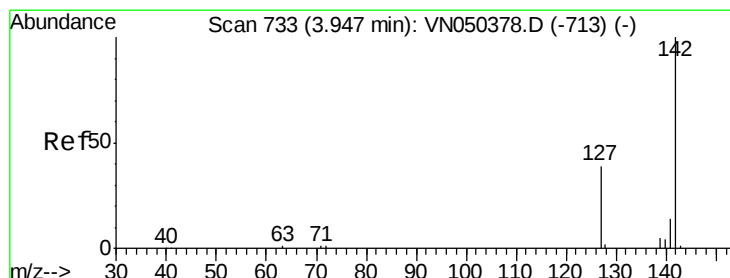
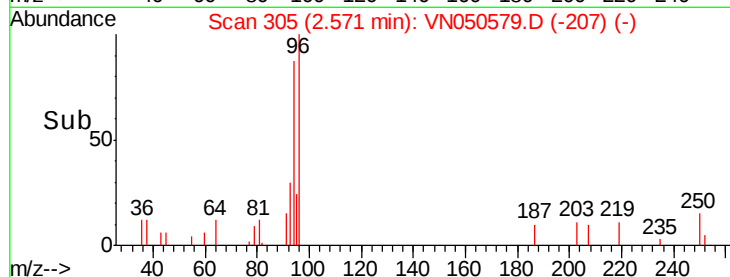
1000

500

0

2.50 2.55 2.60

Time-->



#10

Methyl Iodide

Concen: 0.27 ug/l

RT: 3.96 min Scan# 736

Delta R.T. 0.01 min

Lab File: VN050579.D

Acq: 13 Aug 2018 19:40

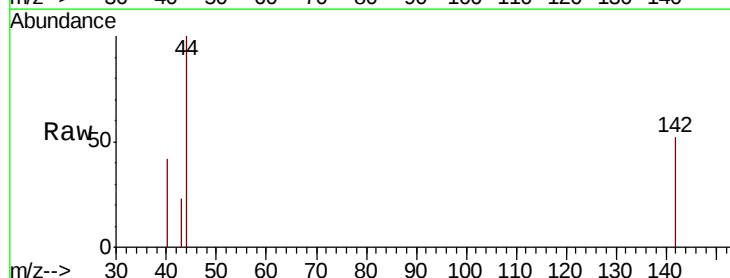
Tgt Ion: 142 Resp: 858

Ion Ratio Lower Upper

142 100

127 0.0 33.4 50.2#

141 0.0 11.6 17.4#



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

Ion 126.80 (126.50 to 127.50): VN050378.D (-713) (-)

Ion 140.80 (140.50 to 141.50): VN050378.D (-713) (-)

3.96

600

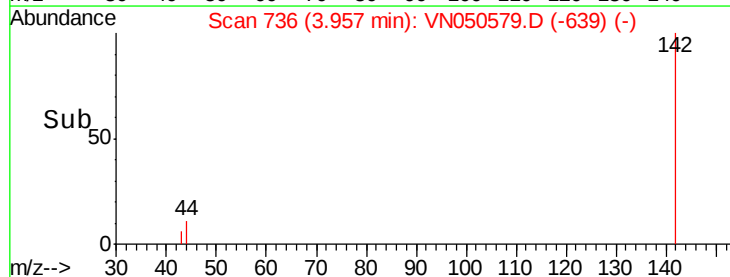
400

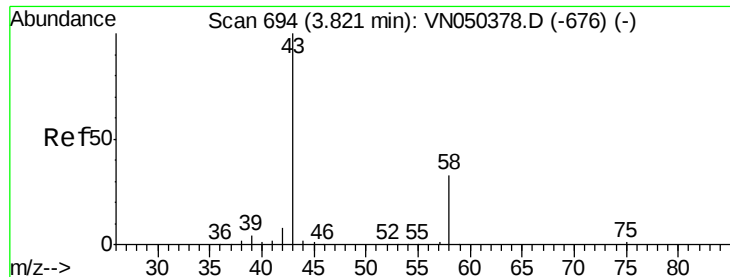
200

0

3.90 3.95 4.00

Time-->





#16

Acetone

Concen: 5.05 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN050579.D

Acq: 13 Aug 2018 19:40

Instrument :

MSVOA_N

ClientSampleId :

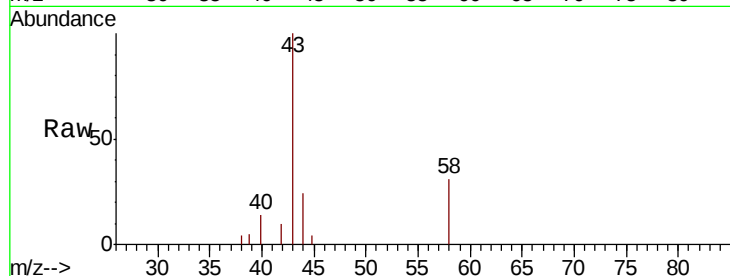
PB111961ZHE#12

Tot Ion: 43 Resp: 13712

Ion Ratio Lower Upper

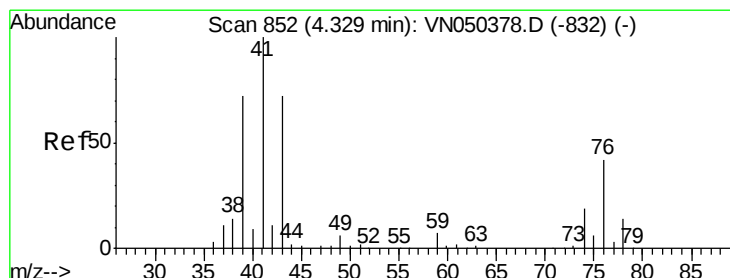
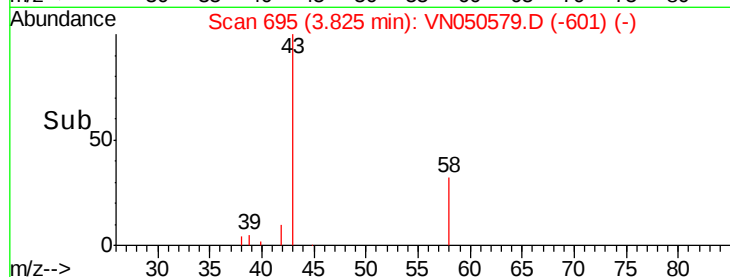
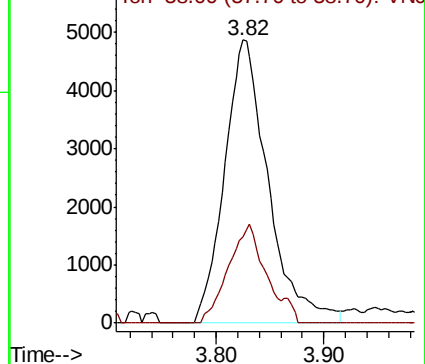
43 100

58 30.7 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 2.35 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.00 min

Lab File: VN050579.D

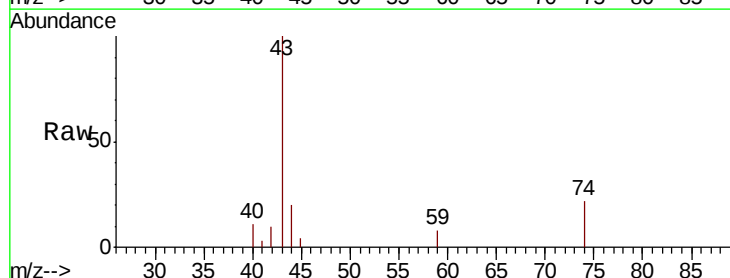
Acq: 13 Aug 2018 19:40

Tgt Ion: 43 Resp: 16705

Ion Ratio Lower Upper

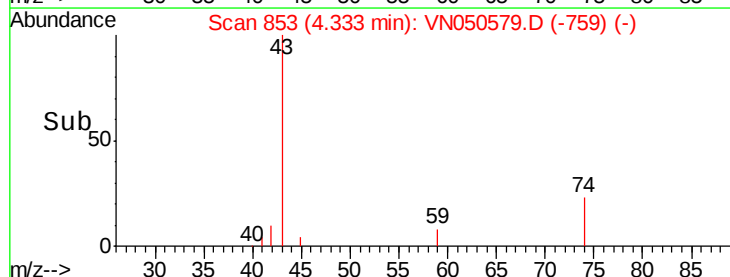
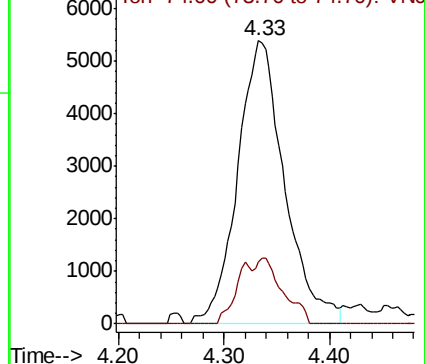
43 100

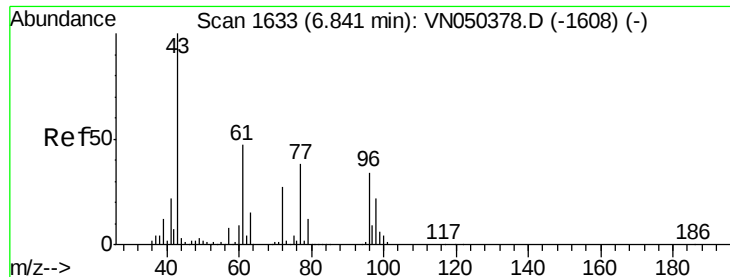
74 7.9 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#25

2-Butanone

Concen: 0.69 ug/l

RT: 6.84 min Scan# 1634

Delta R.T. 0.00 min

Lab File: VN050579.D

Acq: 13 Aug 2018 19:40

Instrument :

MSVOA_N

ClientSampleId :

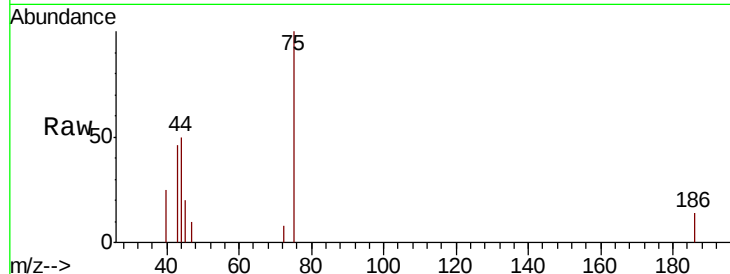
PB111961ZHE#12

Tot Ion: 43 Resp: 2888

Ion Ratio Lower Upper

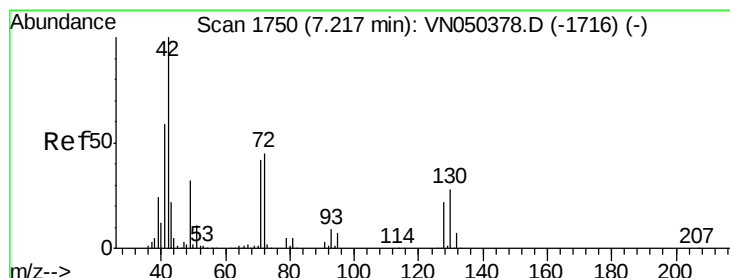
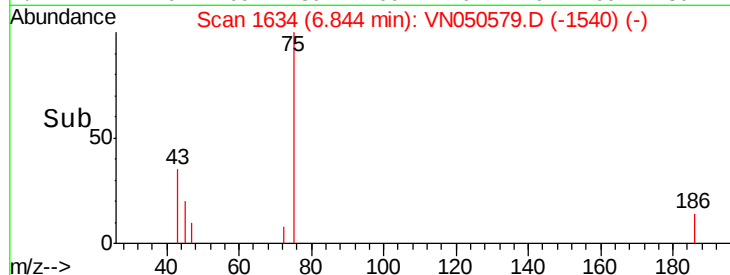
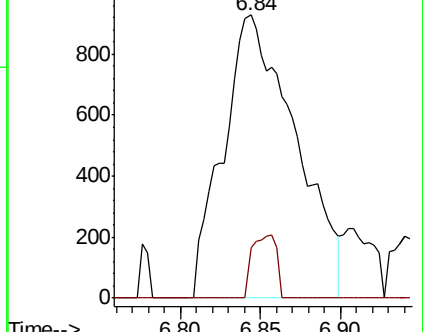
43 100

72 17.7 21.5 32.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 0.24 ug/l

RT: 7.22 min Scan# 1750

Delta R.T. 0.00 min

Lab File: VN050579.D

Acq: 13 Aug 2018 19:40

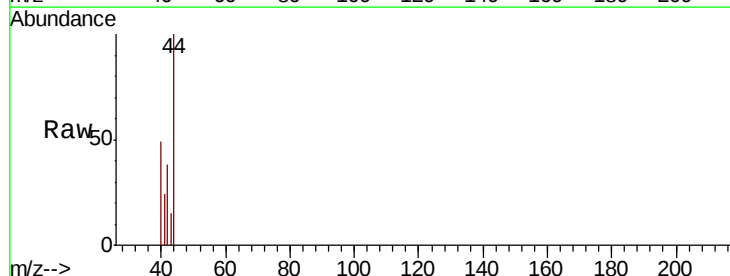
Tgt Ion: 42 Resp: 547

Ion Ratio Lower Upper

42 100

72 5.7 35.9 53.9#

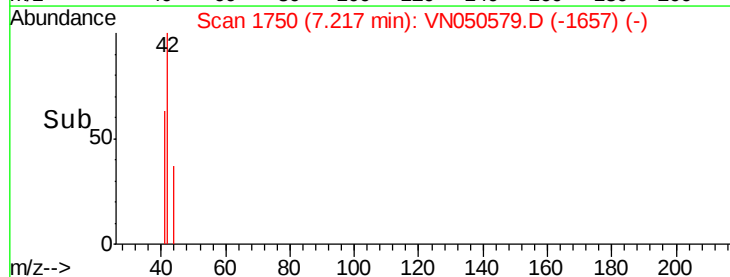
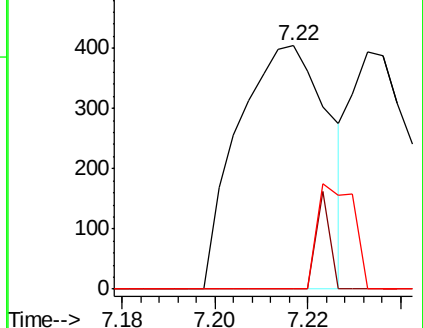
71 17.2 33.7 50.5#

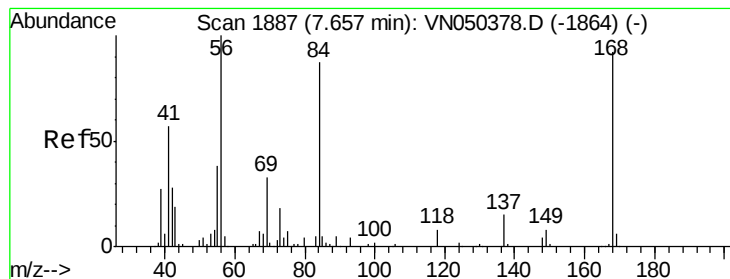


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0





#31

Cyclohexane

Concen: 0.31 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050579.D

Acq: 13 Aug 2018 19:40

Instrument :

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ClientSampleId :

PB111961ZHE#12

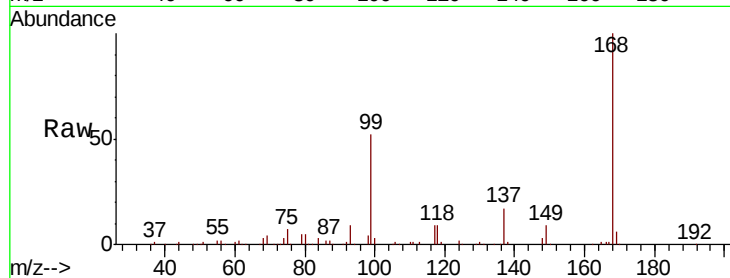
Tot Ion: 56 Resp: 11462

Ion Ratio Lower Upper

56 100

69 188.1 26.2 39.4#

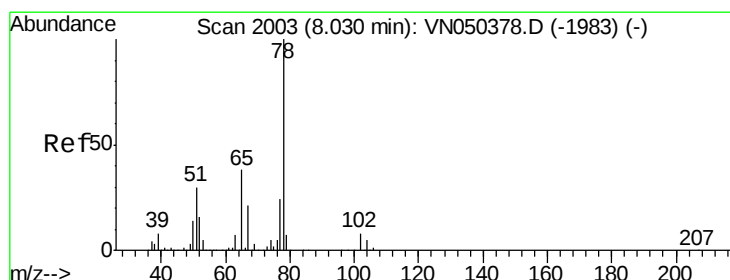
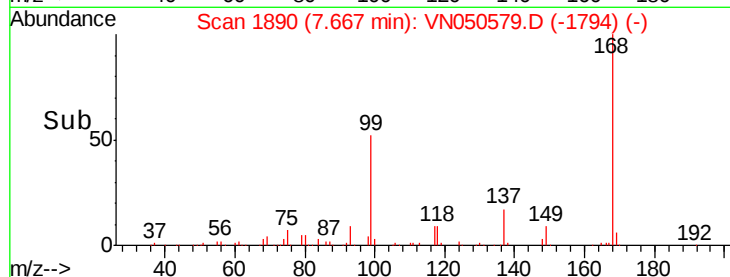
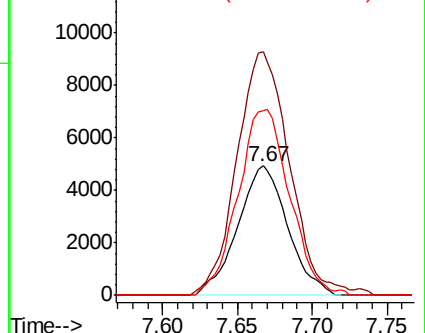
84 142.9 67.4 101.0#



Abundance Ion 56.00 (55.70 to 56.70): VN050378.D (-1864) (-)

Ion 69.00 (68.70 to 69.70): VN050378.D (-1864) (-)

Ion 84.00 (83.70 to 84.70): VN050378.D (-1864) (-)



#33

1,2-Dichloroethane-d4

Concen: 51.51 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050579.D

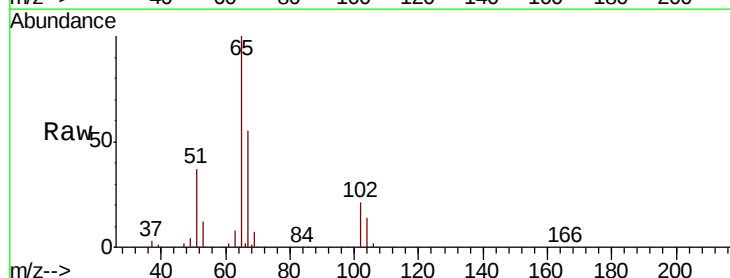
Acq: 13 Aug 2018 19:40

Tgt Ion: 65 Resp: 438154

Ion Ratio Lower Upper

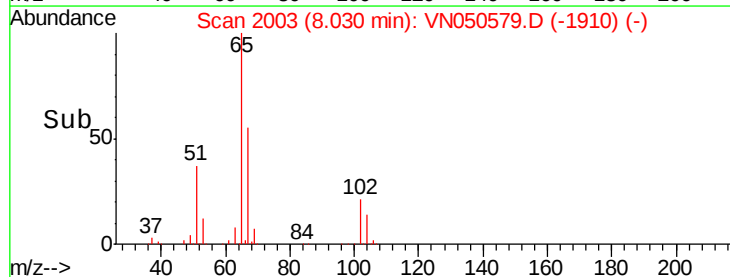
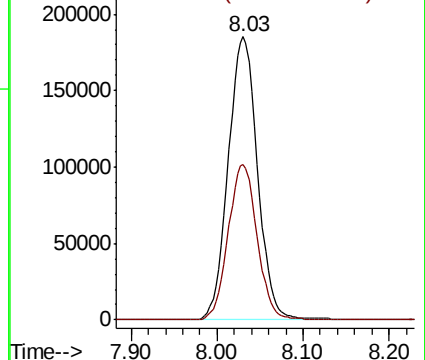
65 100

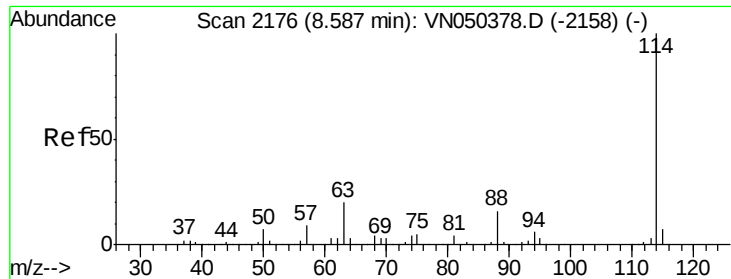
67 54.2 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN050378.D (-1983) (-)

Ion 66.90 (66.60 to 67.60): VN050378.D (-1983) (-)

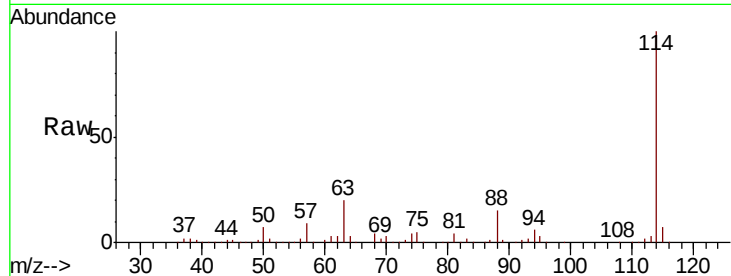




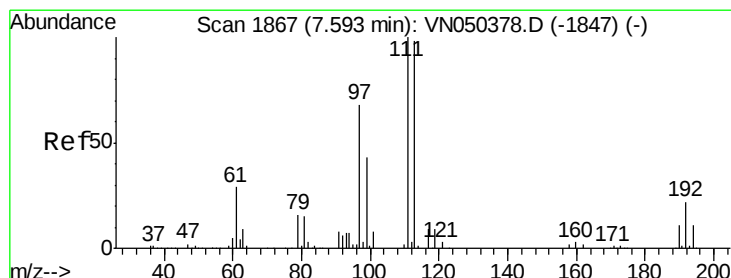
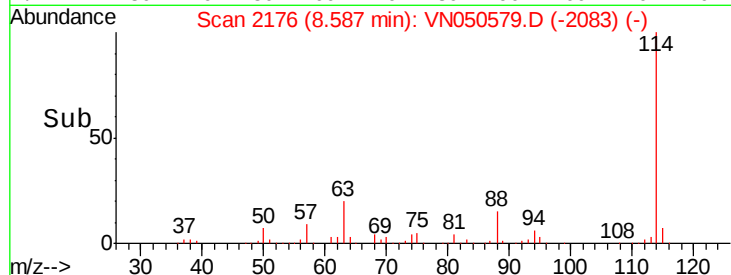
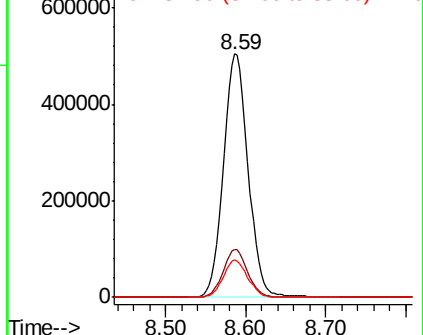
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN050579.D
 Acq: 13 Aug 2018 19:40

Instrument :
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 PB111961ZHE#12

Tot Ion:114 Resp: 1068170
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 40.0
 88 15.3 0.0 31.2

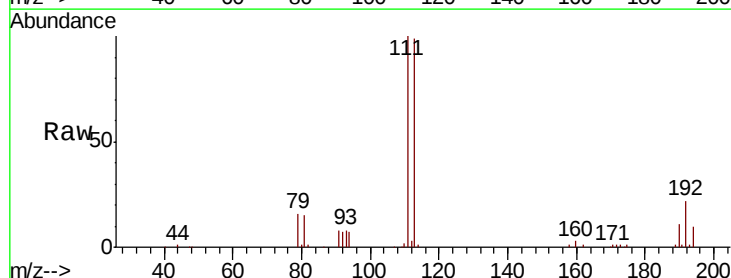


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

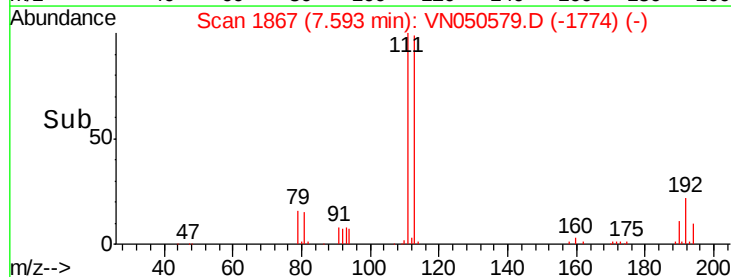
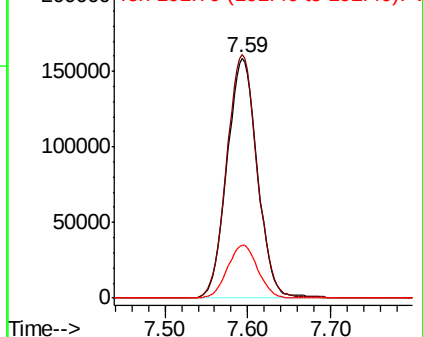


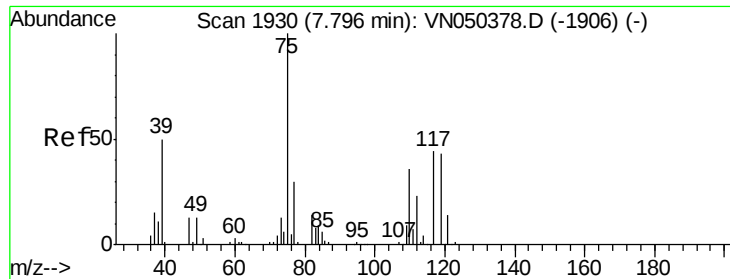
#35
 Dibromofluoromethane
 Concen: 47.18 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050579.D
 Acq: 13 Aug 2018 19:40

Tgt Ion:113 Resp: 404366
 Ion Ratio Lower Upper
 113 100
 111 101.6 80.7 121.1
 192 22.2 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: 3.79 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN050579.D

Acq: 13 Aug 2018 19:40

Instrument :

MSVOA_N

ClientSampleId :

PB111961ZHE#12

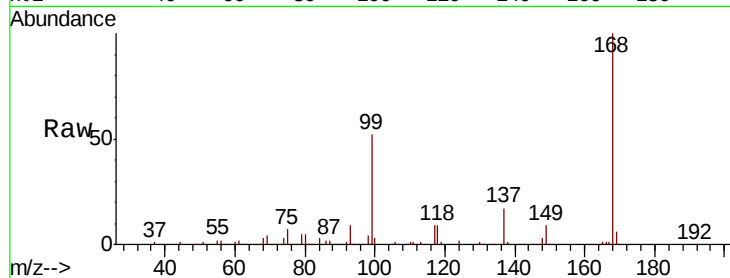
Tot Ion: 75 Resp: 44441

Ion Ratio Lower Upper

75 100

110 8.2 18.4 55.2#

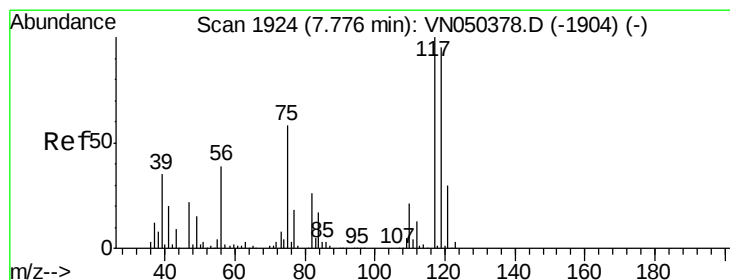
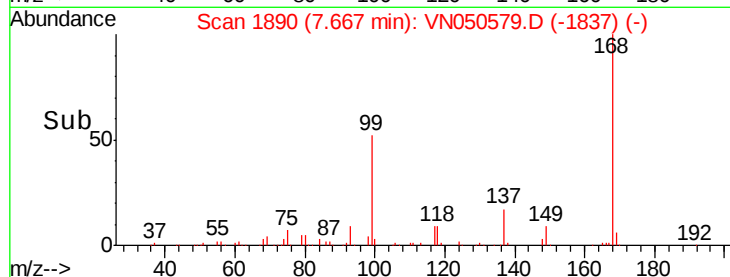
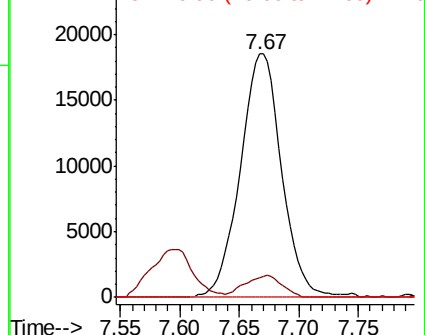
77 0.0 25.3 37.9#



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) (-)



#38

Carbon Tetrachloride

Concen: 4.59 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.11 min

Lab File: VN050579.D

Acq: 13 Aug 2018 19:40

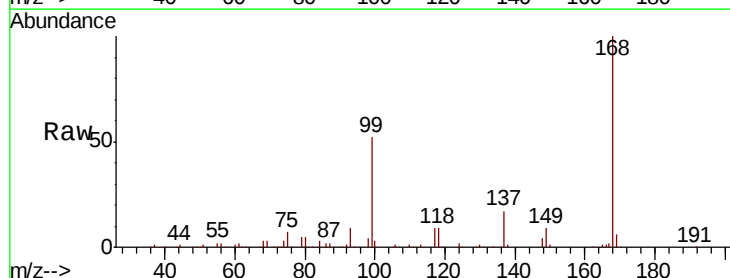
Tgt Ion: 117 Resp: 56253

Ion Ratio Lower Upper

117 100

119 5.6 77.4 116.0#

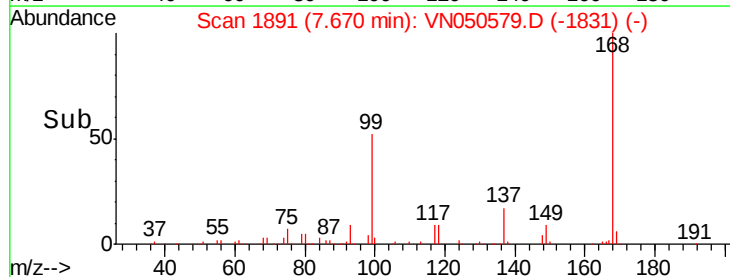
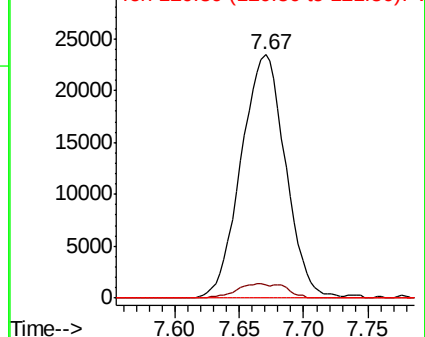
121 0.0 23.9 35.9#

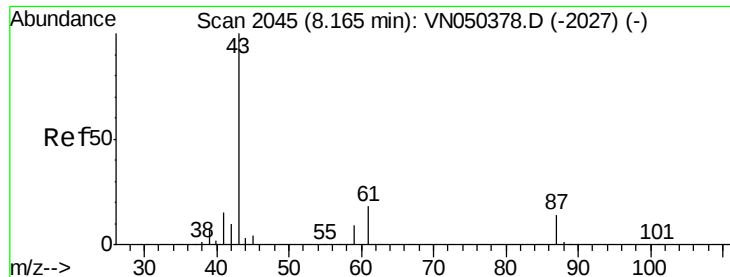


Abundance Ion 116.80 (116.50 to 117.50): VN050378.D (-1904) (-)

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

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



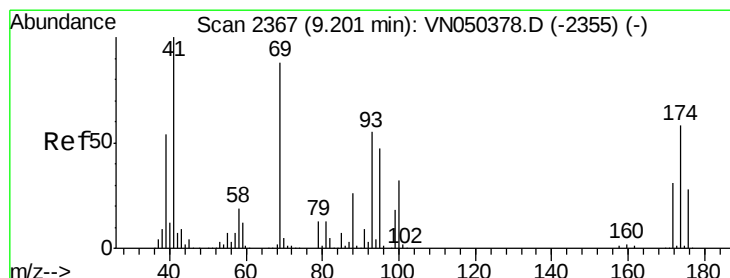
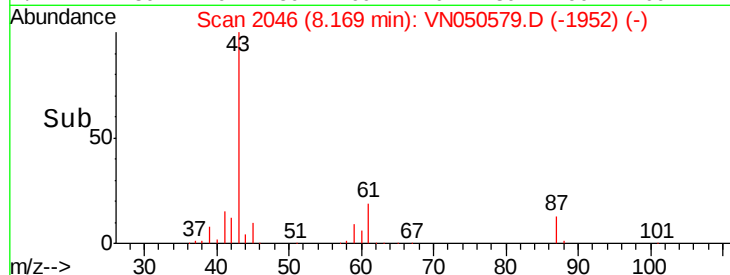
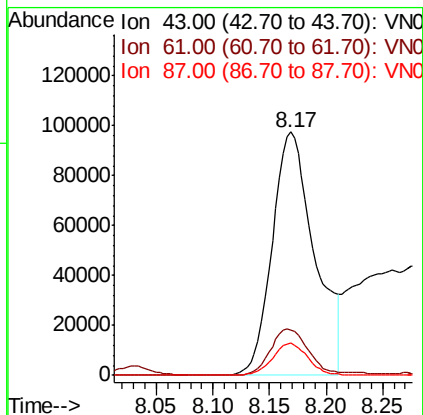
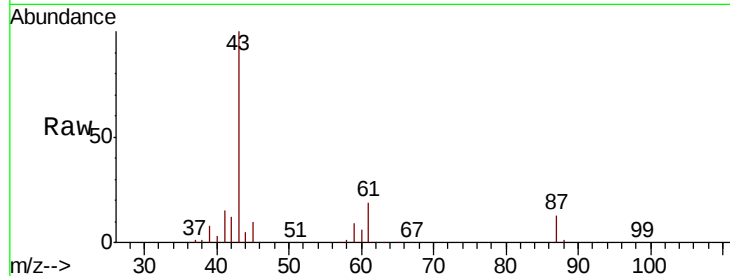


#43

Isopropyl Acetate
 Concen: 17.39 ug/l
 RT: 8.17 min Scan# 2046
 Delta R.T. 0.00 min
 Lab File: VN050579.D
 Acq: 13 Aug 2018 19:40

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111961ZHE#12

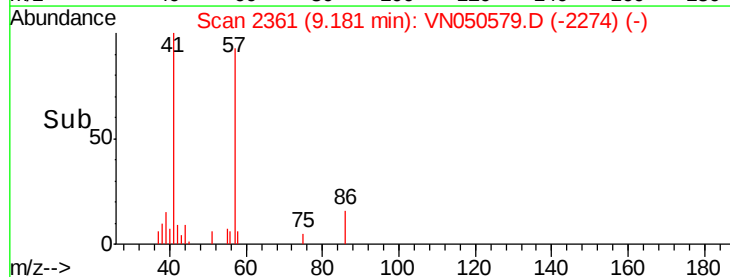
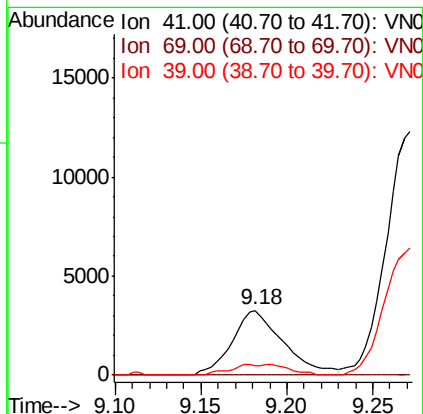
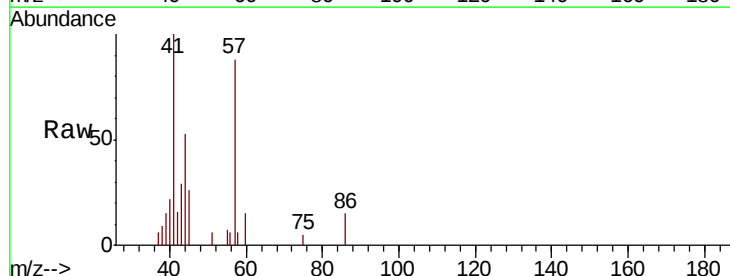
Tot Ion: 43 Resp: 253790
 Ion Ratio Lower Upper
 43 100
 61 17.2 15.8 23.6
 87 11.1 10.3 15.5

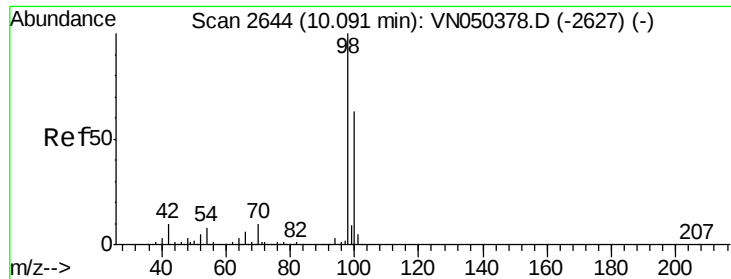


#48

Methyl methacrylate
 Concen: 0.93 ug/l
 RT: 9.18 min Scan# 2361
 Delta R.T. -0.02 min
 Lab File: VN050579.D
 Acq: 13 Aug 2018 19:40

Tgt Ion: 41 Resp: 6775
 Ion Ratio Lower Upper
 41 100
 69 0.0 70.6 105.8#
 39 8.6 43.9 65.9#





#50

Toluene-d8

Concen: 45.71 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN050579.D

Acq: 13 Aug 2018 19:40

Instrument :

MSVOA_N

ClientSampleId :

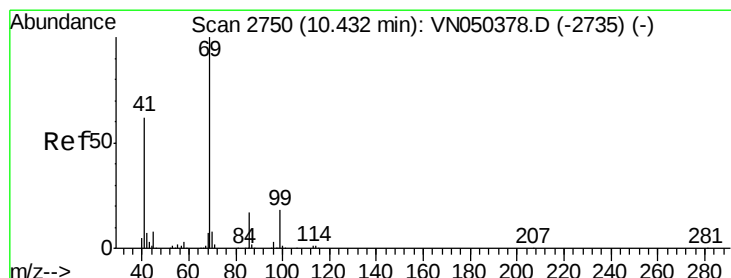
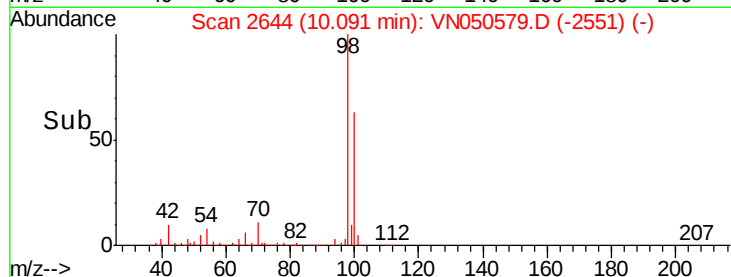
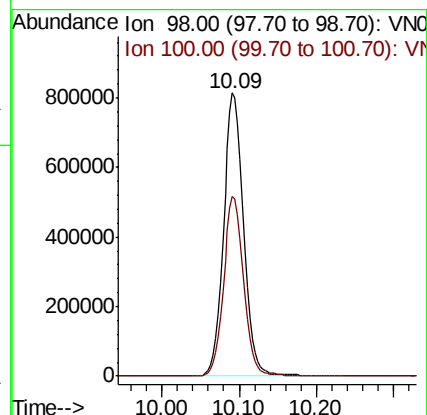
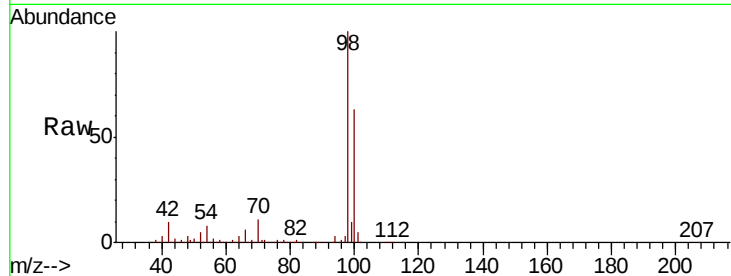
PB111961ZHE#12

Tot Ion: 98 Resp: 1472974

Ion Ratio Lower Upper

98 100

100 63.4 50.7 76.1



#56

Ethyl methacrylate

Concen: 1.72 ug/l

RT: 10.54 min Scan# 2784

Delta R.T. 0.11 min

Lab File: VN050579.D

Acq: 13 Aug 2018 19:40

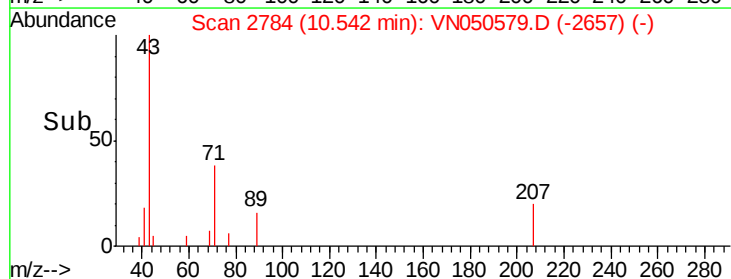
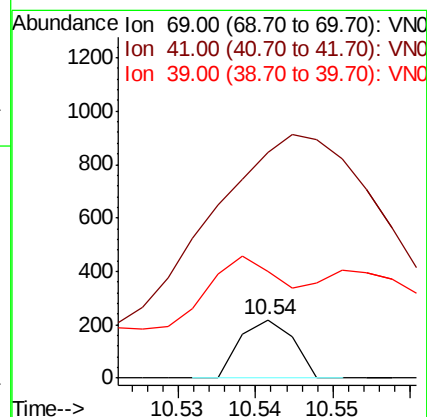
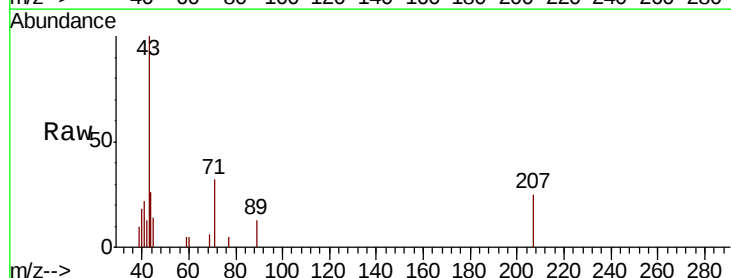
Tgt Ion: 69 Resp: 105

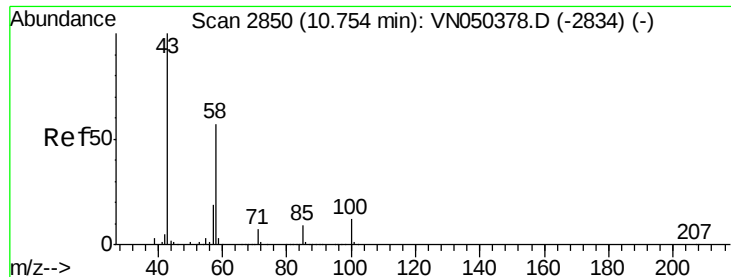
Ion Ratio Lower Upper

69 100

41 1667.6 51.0 76.4#

39 475.2 26.6 40.0#





#59

2-Hexanone

Concen: 2.25 ug/l

RT: 10.76 min Scan# 2853

Delta R.T. 0.01 min

Lab File: VN050579.D

Acq: 13 Aug 2018 19:40

Instrument :

MSVOA_N

ClientSampleId :

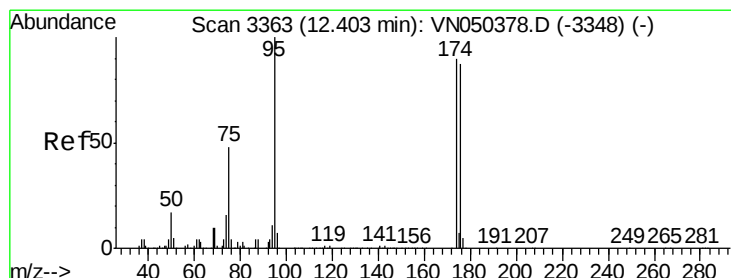
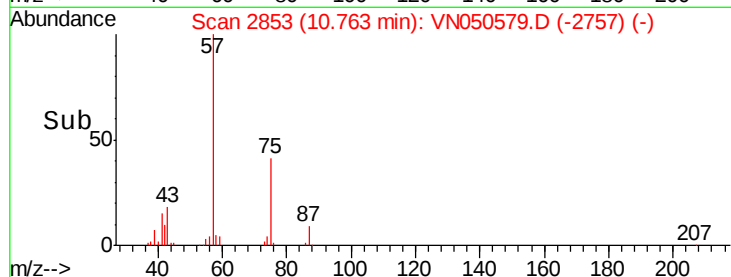
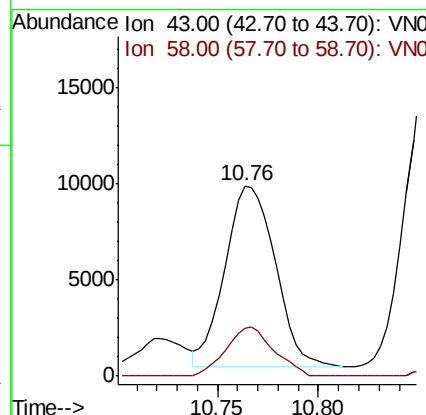
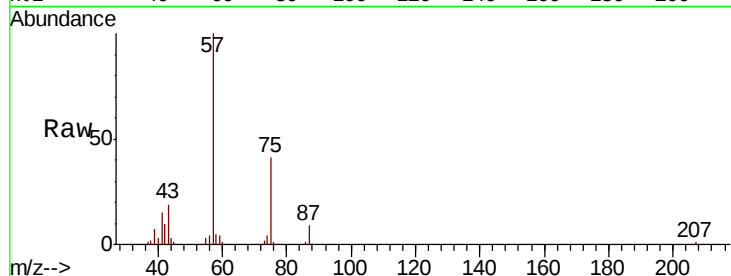
PB111961ZHE#12

Tot Ion: 43 Resp: 16493

Ion Ratio Lower Upper

43 100

58 25.6 27.6 82.7#



#62

4-Bromofluorobenzene

Concen: 38.09 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050579.D

Acq: 13 Aug 2018 19:40

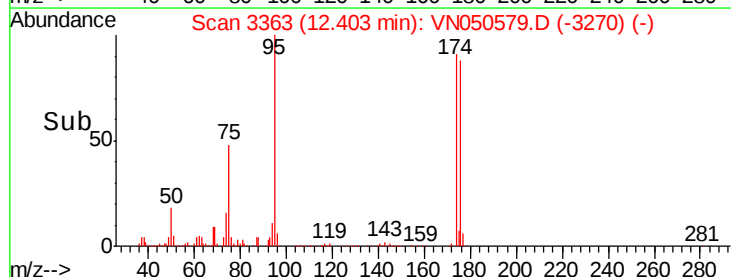
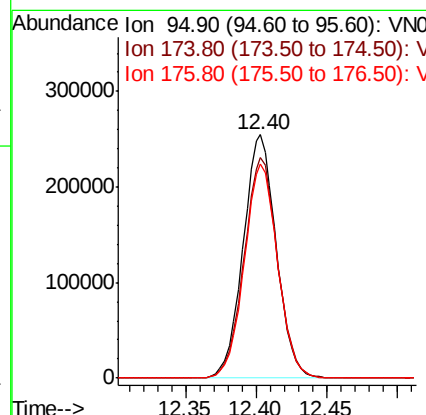
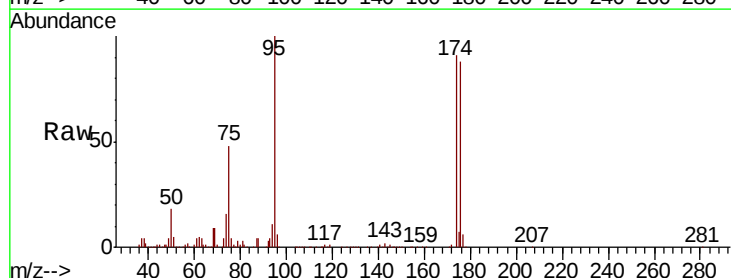
Tgt Ion: 95 Resp: 418359

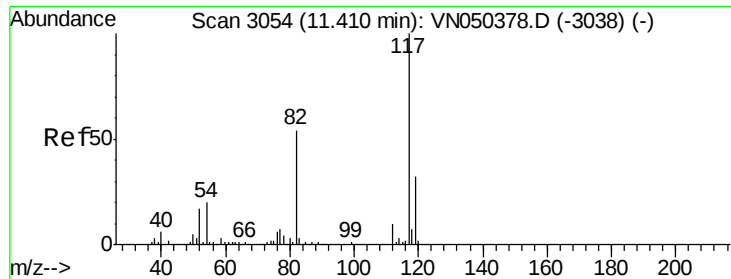
Ion Ratio Lower Upper

95 100

174 91.6 0.0 178.2

176 88.7 0.0 173.4

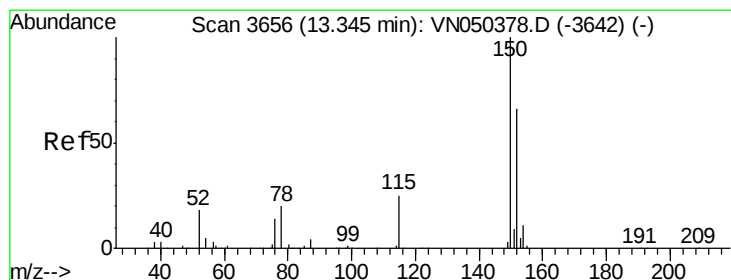
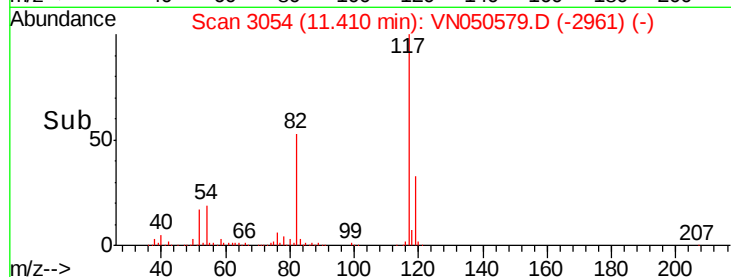
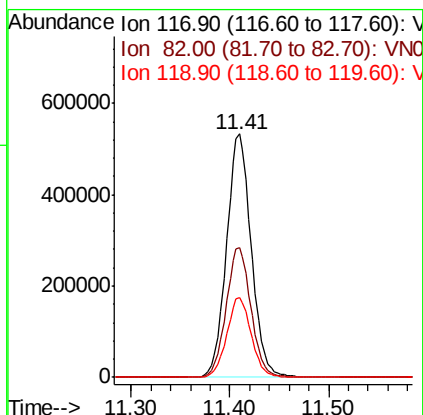
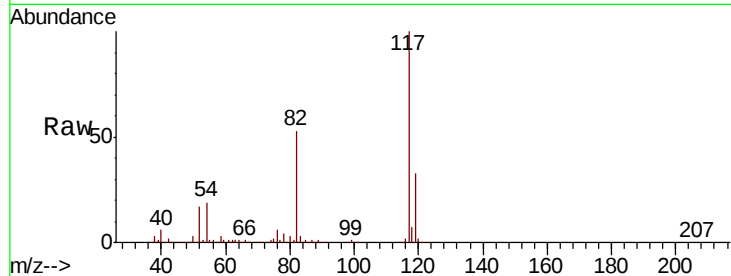




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050579.D
Acq: 13 Aug 2018 19:40

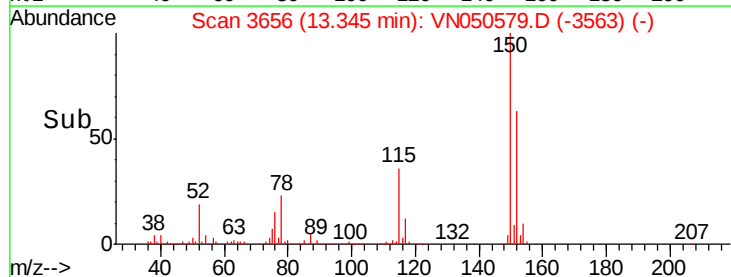
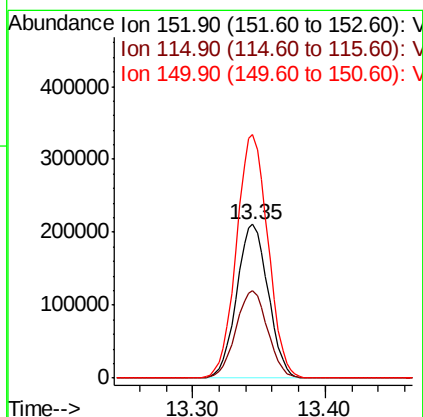
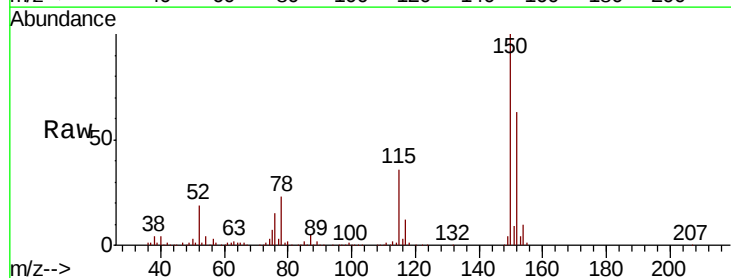
Instrument :
MSVOA_N
ClientSampleId :
PB111961ZHE#12

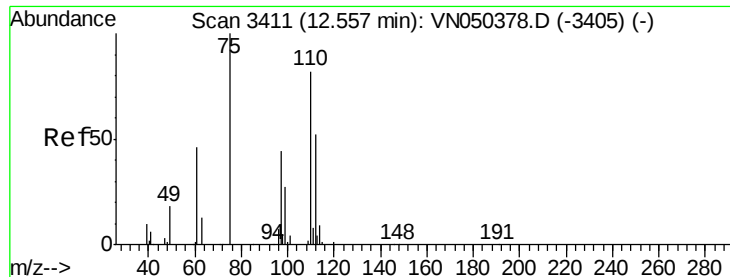
Tot Ion:117 Resp: 934105
Ion Ratio Lower Upper
117 100
82 53.3 43.7 65.5
119 32.8 26.1 39.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN050579.D
Acq: 13 Aug 2018 19:40

Tgt Ion:152 Resp: 347990
Ion Ratio Lower Upper
152 100
115 57.1 27.8 83.3
150 158.4 0.0 348.6





#76

1,2,3-Trichloropropane

Concen: 32.34 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050579.D

Acq: 13 Aug 2018 19:40

Instrument :

MSVOA_N

ClientSampleId :

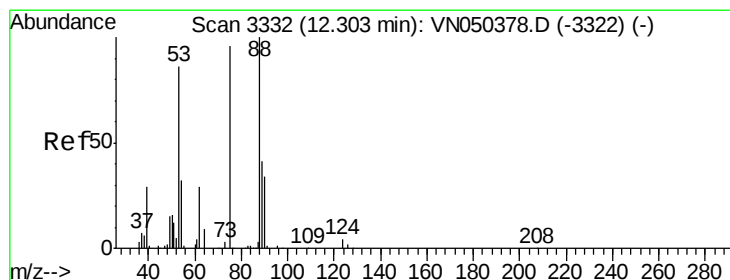
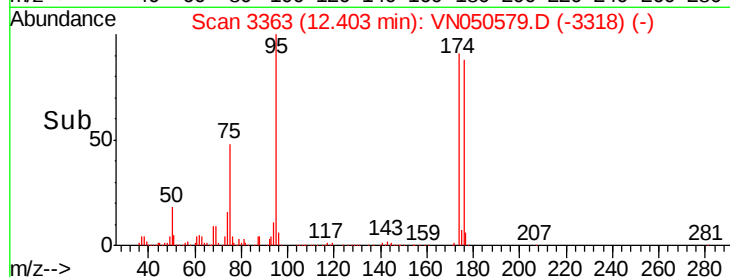
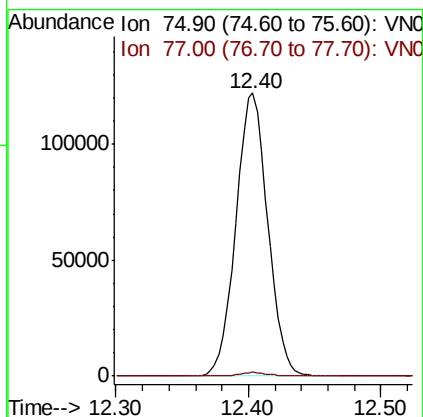
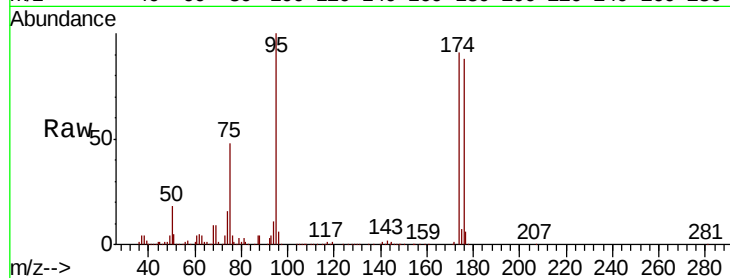
PB111961ZHE#12

Tot Ion: 75 Resp: 203688

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 113.62 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050579.D

Acq: 13 Aug 2018 19:40

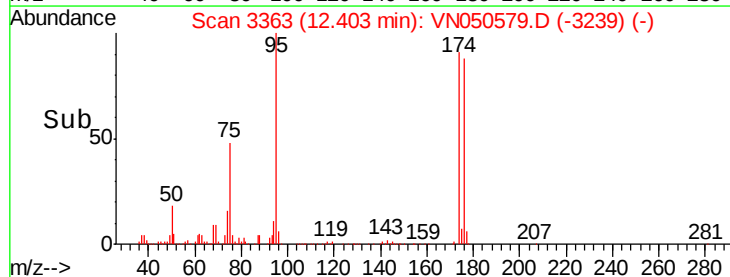
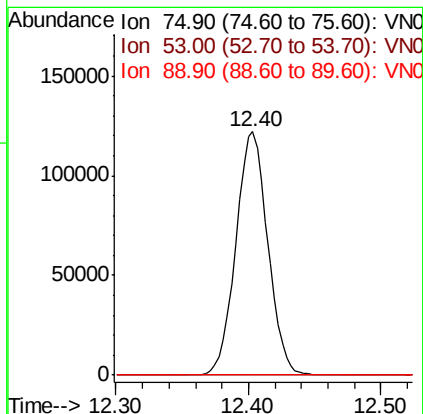
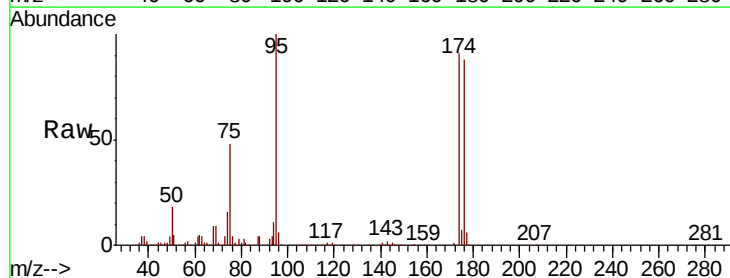
Tgt Ion: 75 Resp: 203688

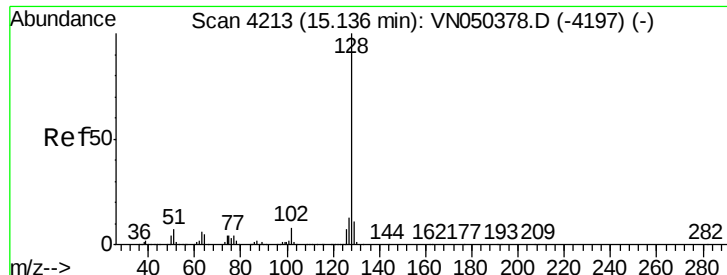
Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

89 0.0 36.0 54.0#





#95

Naphthalene

Concen: 3.64 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN050579.D

Acq: 13 Aug 2018 19:40

Instrument :

MSVOA_N

ClientSampleId :

PB111961ZHE#12

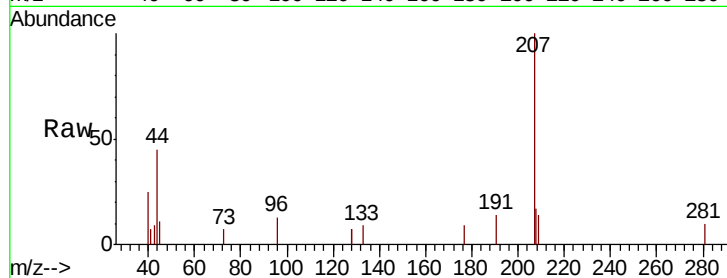
Tot Ion:128 Resp: 274

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

