

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080618\
 Data File : VN050388.D
 Acq On : 6 Aug 2018 17:05
 Operator : MD\SY
 Sample : PB11760ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB11760ZHE#03

Quant Time: Aug 07 05:48:47 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	695903	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1148647	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1000030	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	407972	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	480836	51.71	ug/l	0.00
Spiked Amount			Recovery	=	103.42%	
35) Dibromofluoromethane	7.59	113	425176	46.13	ug/l	0.00
Spiked Amount			Recovery	=	92.26%	
50) Toluene-d8	10.09	98	1568121	45.25	ug/l	0.00
Spiked Amount			Recovery	=	90.50%	
62) 4-Bromofluorobenzene	12.40	95	463253	39.22	ug/l	0.00
Spiked Amount			Recovery	=	78.44%	

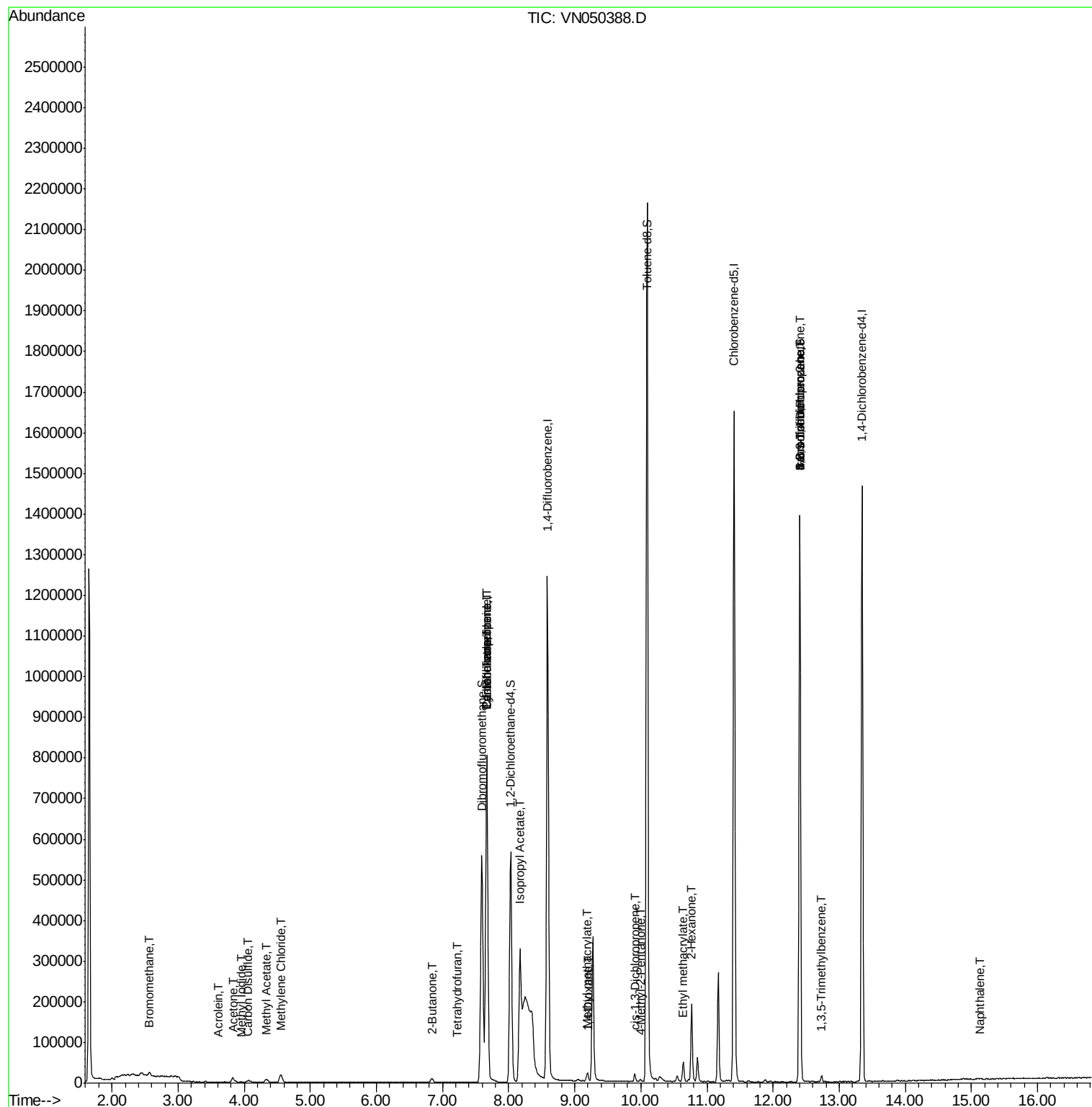
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	4334	Below Cal		94
5) Bromomethane	2.56	94	5447	1.29 ug/l		83
10) Methyl Iodide	3.95	142	2327	0.66 ug/l #		78
13) Acrolein	3.60	56	280	15.30 ug/l #		28
16) Acetone	3.83	43	19505	6.68 ug/l		98
17) Carbon Disulfide	4.05	76	4994	0.20 ug/l #		75
18) Methyl Acetate	4.33	43	13769	1.72 ug/l #		77
20) Methylene Chloride	4.56	84	15255	0.26 ug/l		97
25) 2-Butanone	6.85	43	4319	0.94 ug/l		95
29) Tetrahydrofuran	7.22	42	1290	0.52 ug/l #		76
31) Cyclohexane	7.66	56	12770	0.33 ug/l #		1
36) 1,1-Dichloropropene	7.67	75	48621	3.85 ug/l #		48
38) Carbon Tetrachloride	7.67	117	62544	4.75 ug/l #		17
43) Isopropyl Acetate	8.17	43	432977	27.60 ug/l #		92
48) Methyl methacrylate	9.18	41	11918	1.52 ug/l #		22
49) 1,4-Dioxane	9.21	88	104	0.86 ug/l #		1
51) 4-Methyl-2-Pentanone	9.99	43	3282	0.29 ug/l		97
54) cis-1,3-Dichloropropene	9.90	75	3322	0.23 ug/l #		67
56) Ethyl methacrylate	10.64	69	913	1.78 ug/l #		1
59) 2-Hexanone	10.77	43	26021	3.30 ug/l #		57
71) Bromoform	12.40	173	3825	0.57 ug/l #		1
76) 1,2,3-Trichloropropane	12.40	75	222344	30.11 ug/l #		100
80) 1,3,5-Trimethylbenzene	12.73	105	7153	0.29 ug/l		96
81) trans-1,4-Dichloro-2-buten	12.40	75	222344	105.79 ug/l #		13
95) Naphthalene	15.14	128	1488	3.69 ug/l #		69

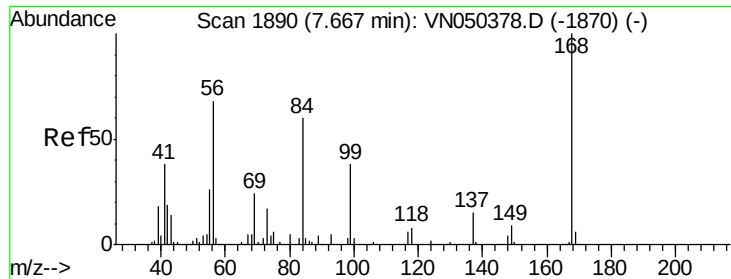
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Aug 07 05:22:15 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050388.D

Acq: 6 Aug 2018 17:05

Instrument :

MSVOA_N

ClientSampleId :

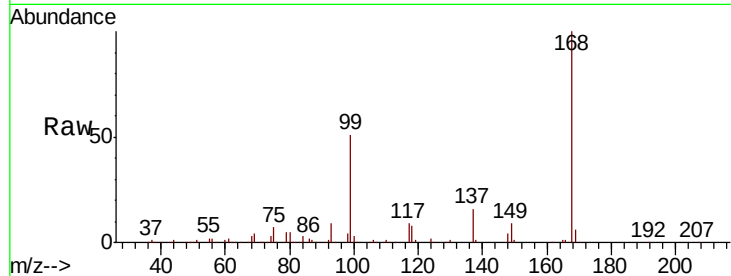
PB11760ZHE#03

Tot Ion:168 Resp: 695903

Ion Ratio Lower Upper

168 100

99 50.6 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

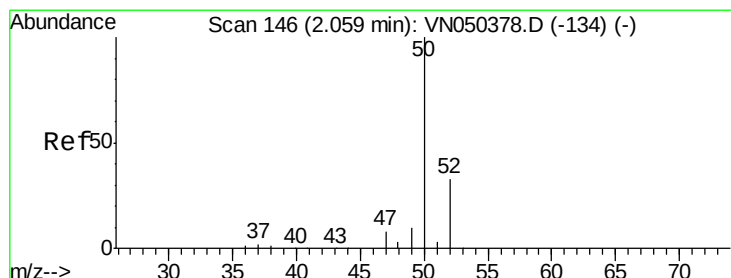
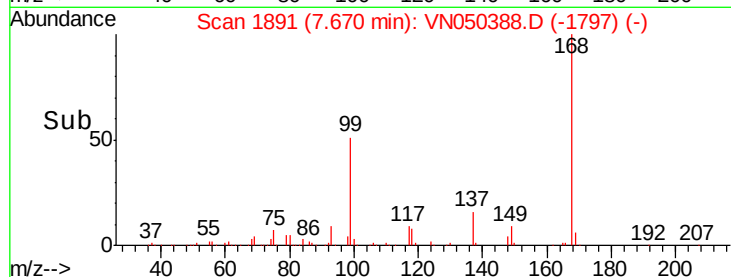
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050388.D

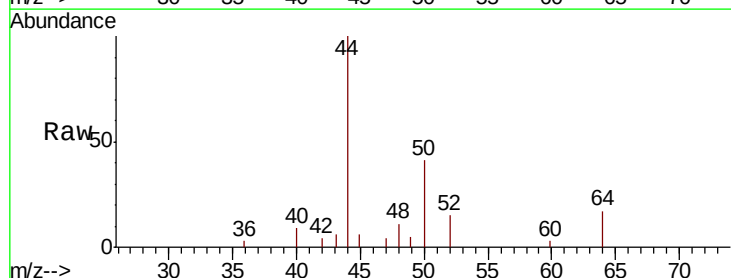
Acq: 6 Aug 2018 17:05

Tgt Ion: 50 Resp: 4334

Ion Ratio Lower Upper

50 100

52 35.8 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.06

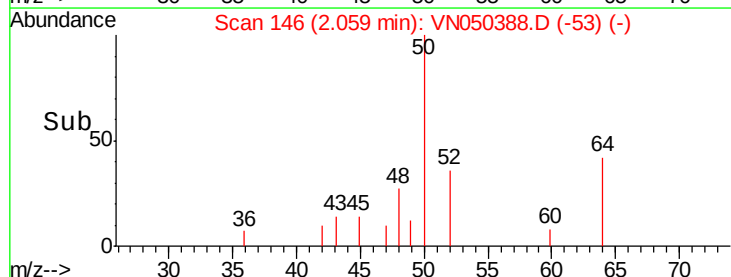
3000

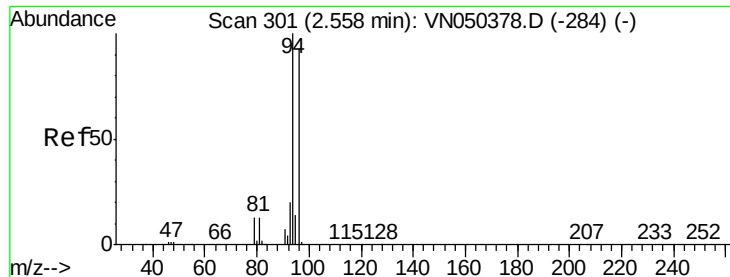
2000

1000

0

Time-->





#5

Bromomethane

Concen: 1.29 ug/l

RT: 2.56 min Scan# 303

Delta R.T. 0.01 min

Lab File: VN050388.D

Acq: 6 Aug 2018 17:05

Instrument :

MSVOA_N

ClientSampleId :

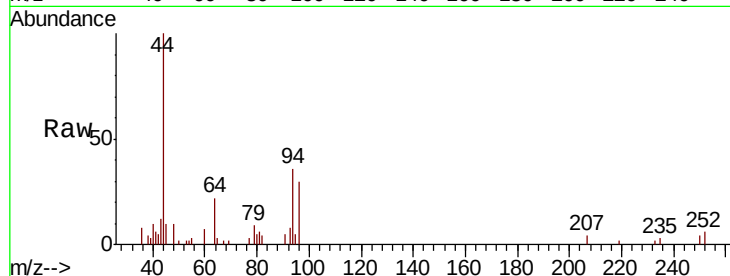
PB11760ZHE#03

Tot Ion: 94 Resp: 5447

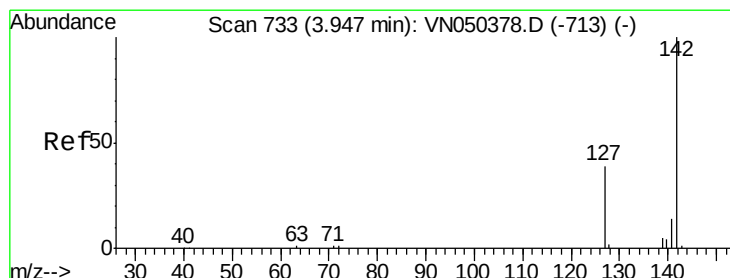
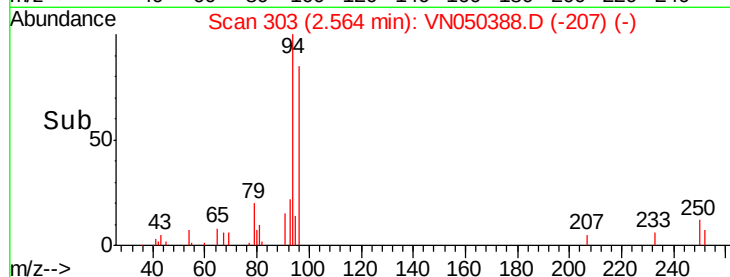
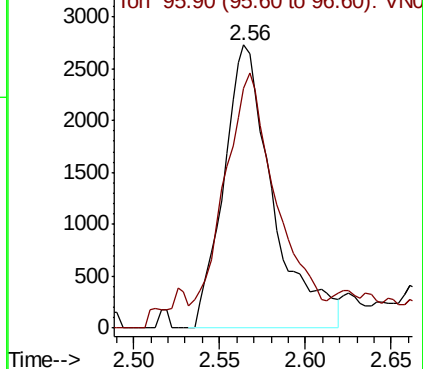
Ion Ratio Lower Upper

94 100

96 77.2 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN050388.D (-284) (-)



#10

Methyl Iodide

Concen: 0.66 ug/l

RT: 3.95 min Scan# 735

Delta R.T. 0.01 min

Lab File: VN050388.D

Acq: 6 Aug 2018 17:05

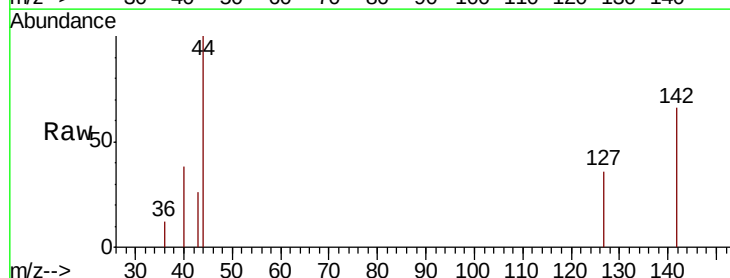
Tgt Ion: 142 Resp: 2327

Ion Ratio Lower Upper

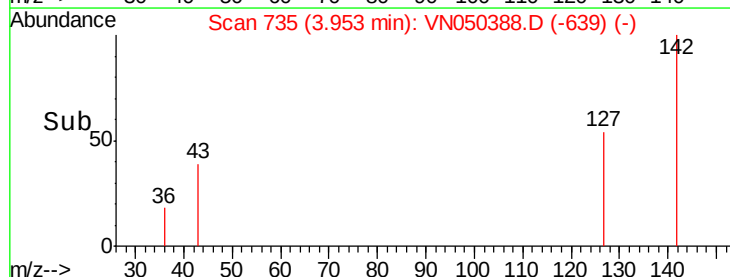
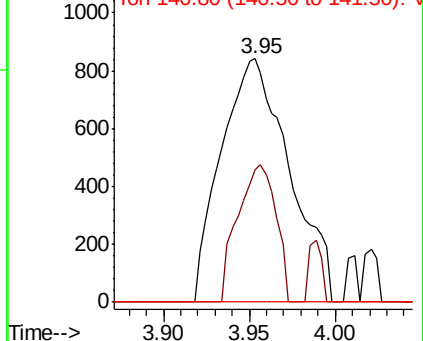
142 100

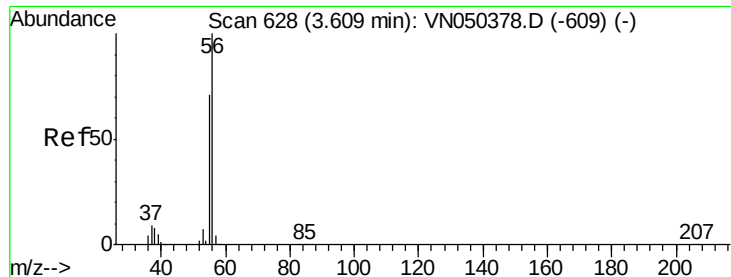
127 31.2 33.4 50.2#

141 0.0 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): VN050388.D (-713) (-)





#13

Acrolein

Concen: 15.30 ug/l

RT: 3.60 min Scan# 625

Delta R.T. -0.01 min

Lab File: VN050388.D

Acq: 6 Aug 2018 17:05

Instrument :

MSVOA_N

ClientSampleId :

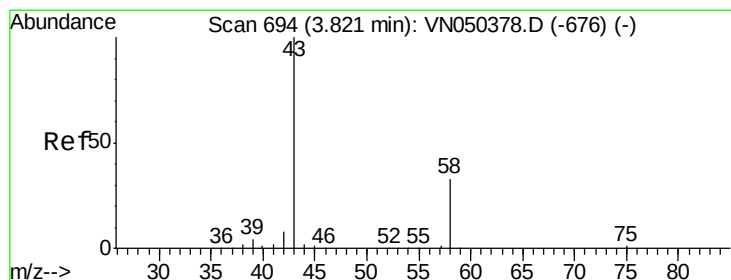
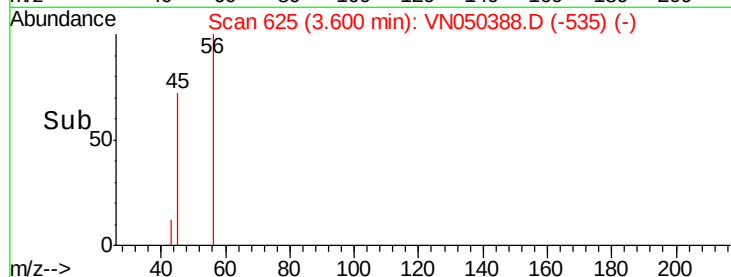
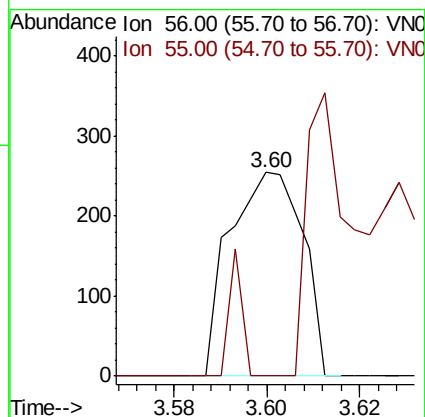
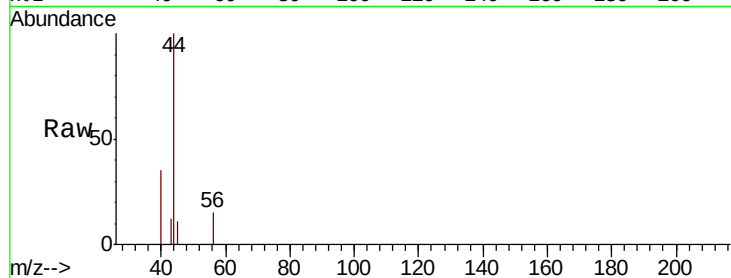
PB11760ZHE#03

Tot Ion: 56 Resp: 280

Ion Ratio Lower Upper

56 100

55 11.1 55.8 83.6#



#16

Acetone

Concen: 6.68 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN050388.D

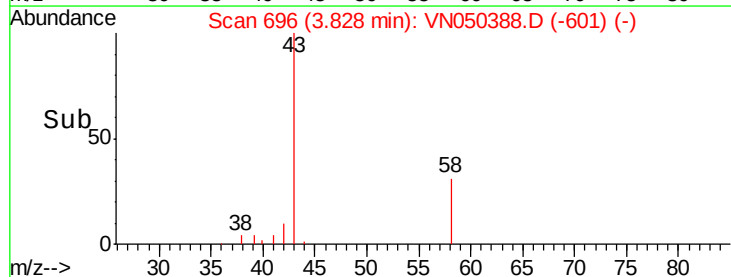
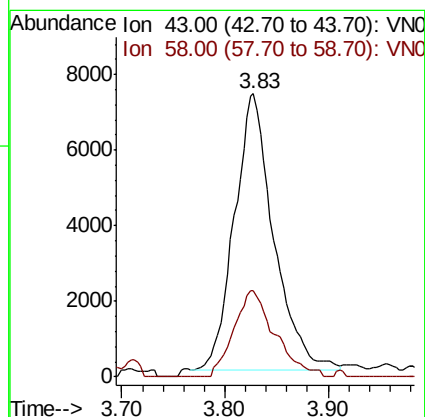
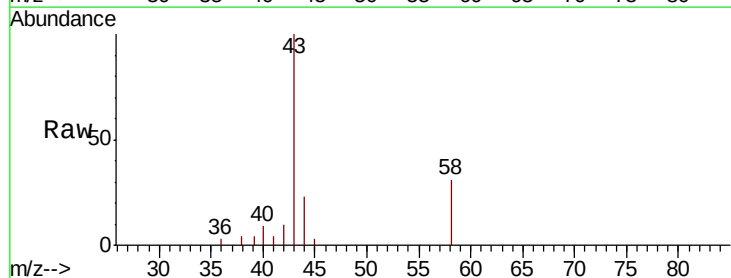
Acq: 6 Aug 2018 17:05

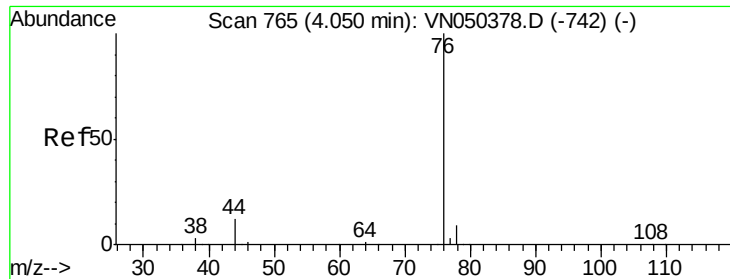
Tgt Ion: 43 Resp: 19505

Ion Ratio Lower Upper

43 100

58 31.4 25.8 38.8

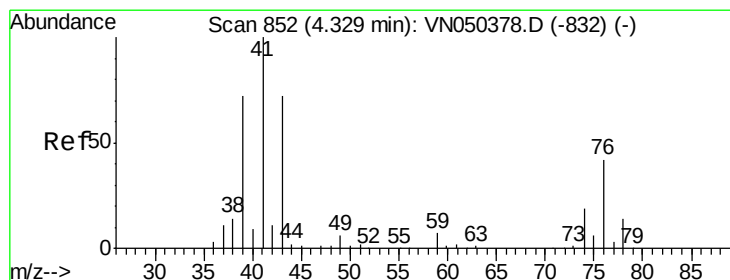
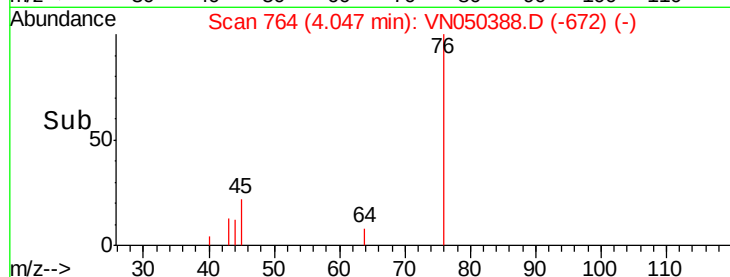
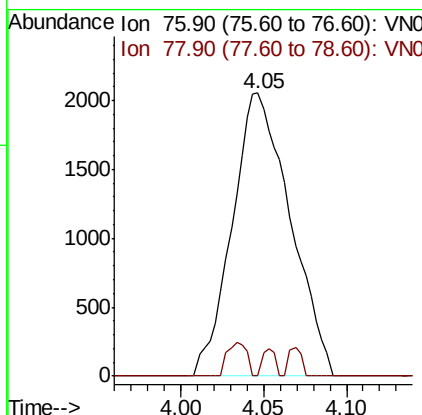
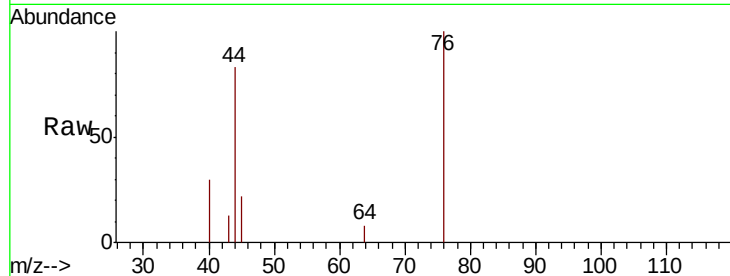




#17
Carbon Disulfide
Concen: 0.20 ug/l
RT: 4.05 min Scan# 764
Delta R.T. -0.00 min
Lab File: VN050388.D
Acq: 6 Aug 2018 17:05

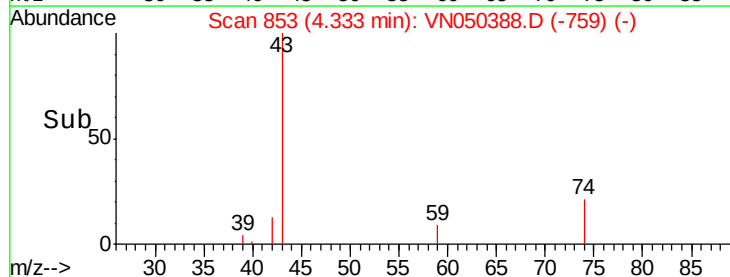
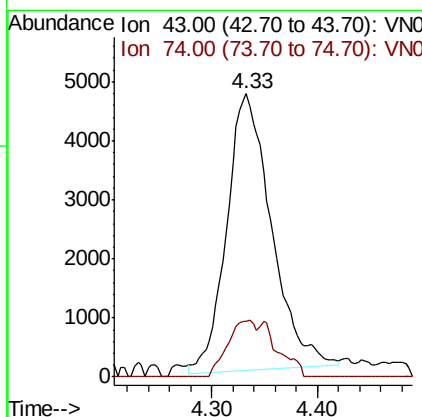
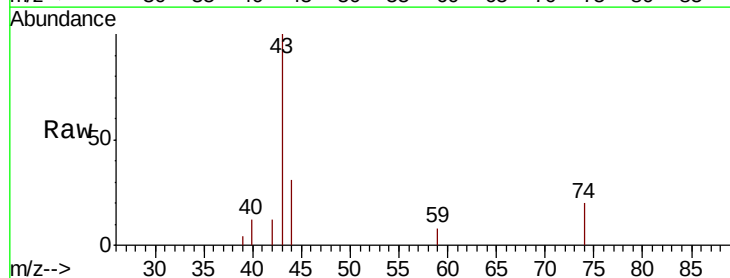
Instrument :
MSVOA_N
ClientSampleId :
PB11760ZHE#03

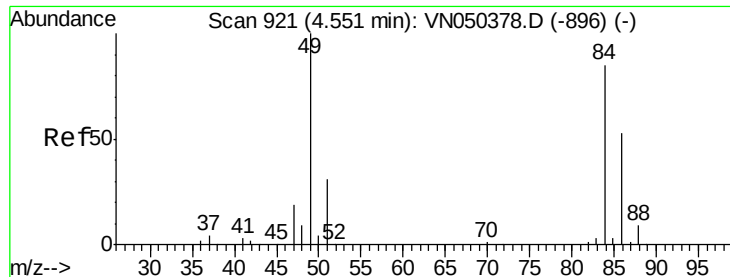
Tot Ion: 76 Resp: 4994
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#



#18
Methyl Acetate
Concen: 1.72 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.00 min
Lab File: VN050388.D
Acq: 6 Aug 2018 17:05

Tgt Ion: 43 Resp: 13769
Ion Ratio Lower Upper
43 100
74 12.9 19.2 28.8#

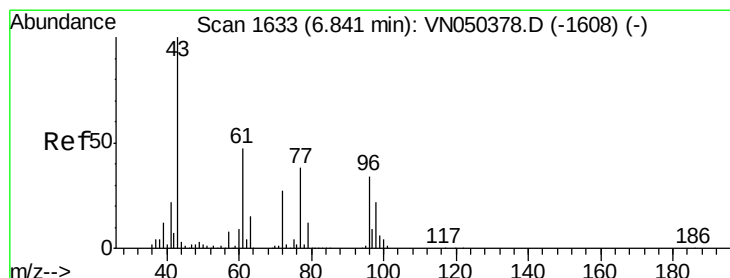
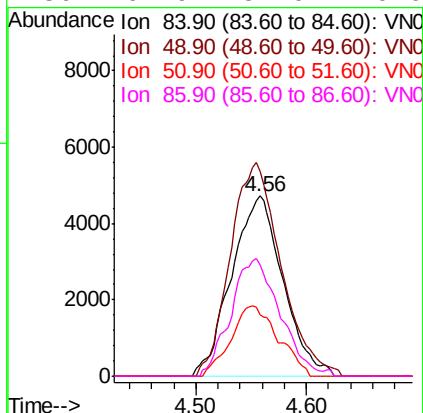
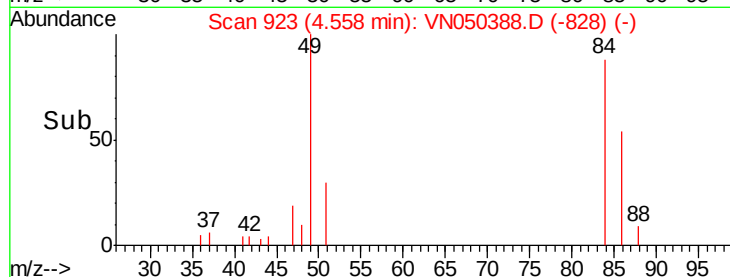
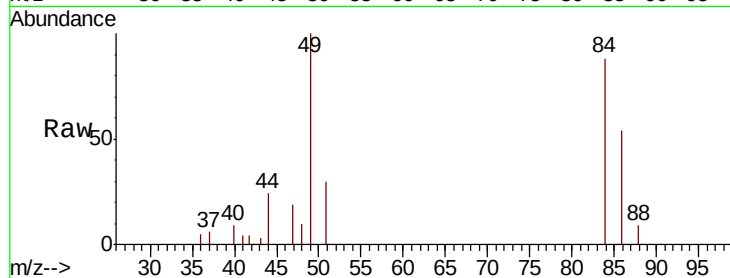




#20
Methylene Chloride
Concen: 0.26 ug/l
RT: 4.56 min Scan# 923
Delta R.T. 0.01 min
Lab File: VN050388.D
Acq: 6 Aug 2018 17:05

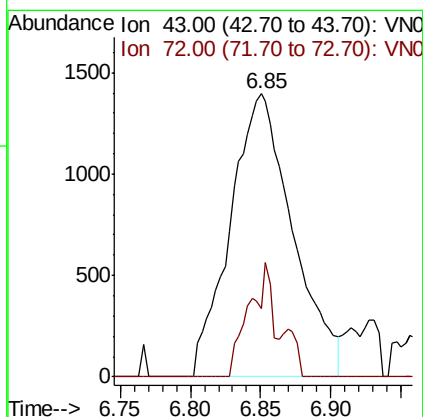
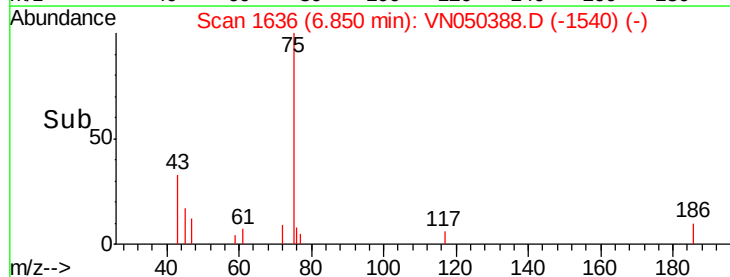
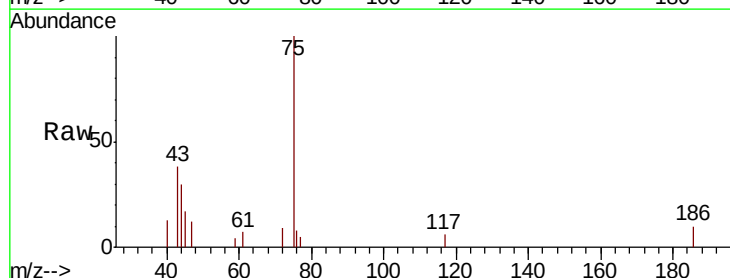
Instrument :
MSVOA_N
ClientSampleId :
PB11760ZHE#03

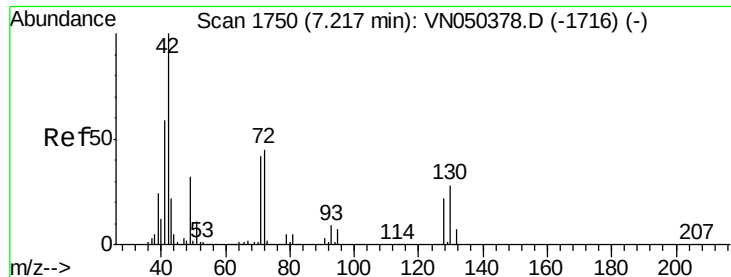
Tot Ion: 84 Resp: 15255
Ion Ratio Lower Upper
84 100
49 113.7 94.8 142.2
51 34.3 28.3 42.5
86 61.9 51.0 76.6



#25
2-Butanone
Concen: 0.94 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN050388.D
Acq: 6 Aug 2018 17:05

Tgt Ion: 43 Resp: 4319
Ion Ratio Lower Upper
43 100
72 24.1 21.5 32.3

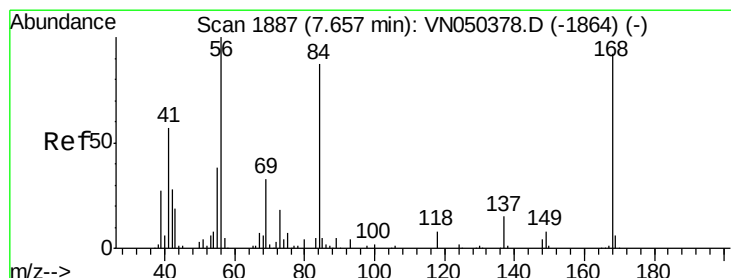
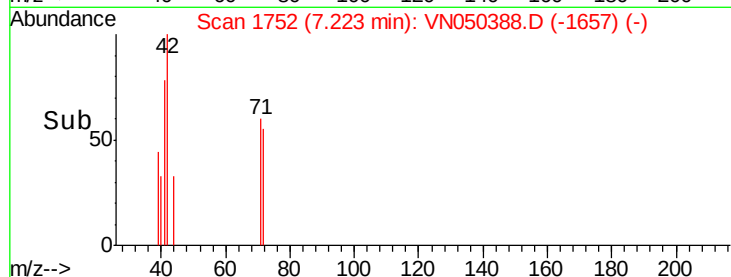
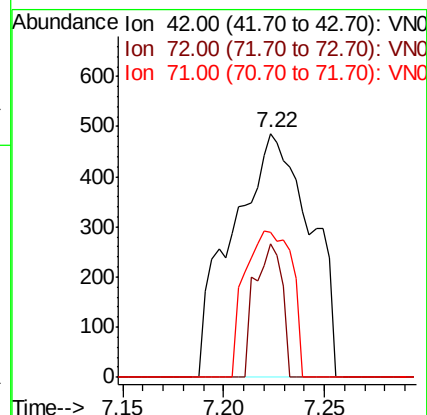
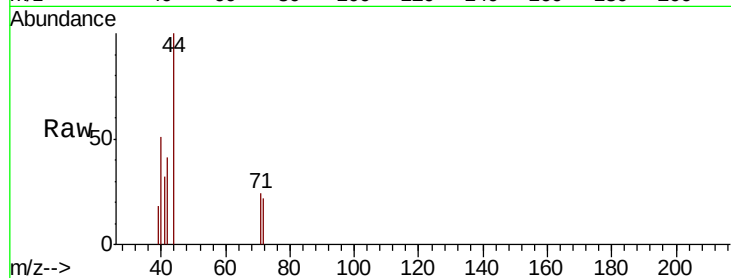




#29
Tetrahydrofuran
Concen: 0.52 ug/l
RT: 7.22 min Scan# 1752
Delta R.T. 0.01 min
Lab File: VN050388.D
Acq: 6 Aug 2018 17:05

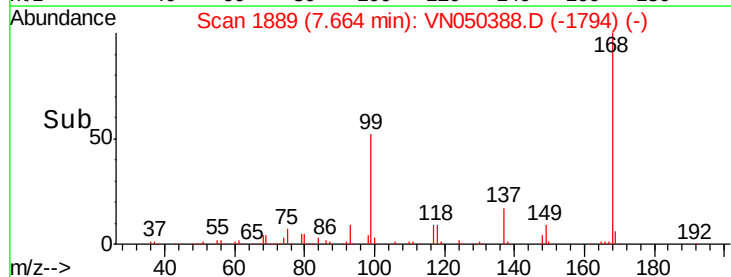
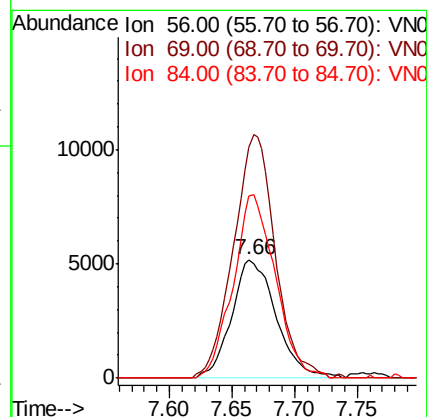
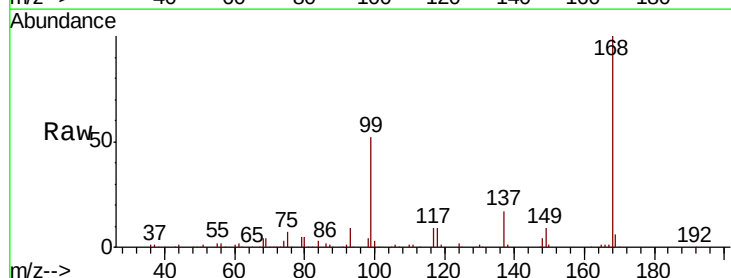
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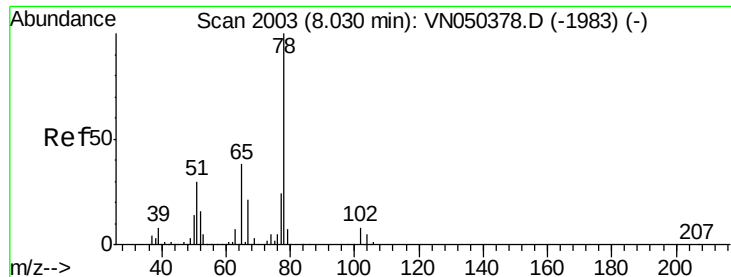
Tot Ion: 42 Resp: 1290
Ion Ratio Lower Upper
42 100
72 19.5 35.9 53.9#
71 37.0 33.7 50.5



#31
Cyclohexane
Concen: 0.33 ug/l
RT: 7.66 min Scan# 1889
Delta R.T. 0.01 min
Lab File: VN050388.D
Acq: 6 Aug 2018 17:05

Tgt Ion: 56 Resp: 12770
Ion Ratio Lower Upper
56 100
69 194.5 26.2 39.4#
84 153.9 67.4 101.0#

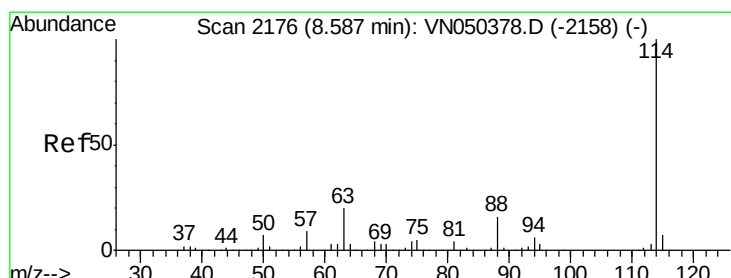
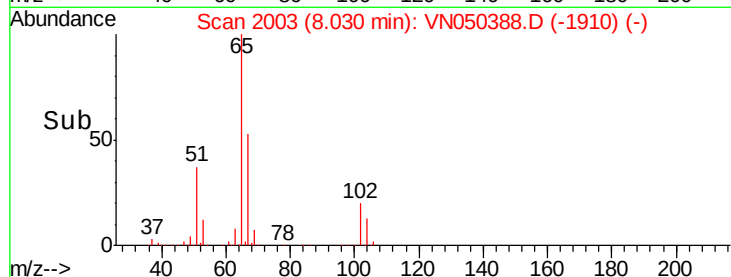
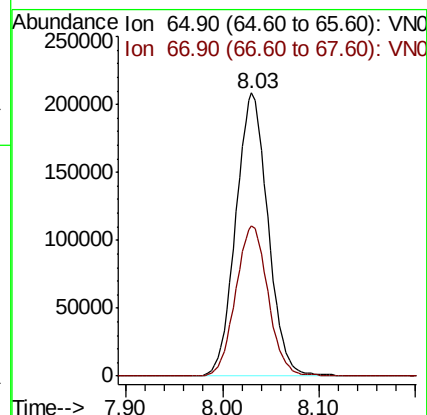
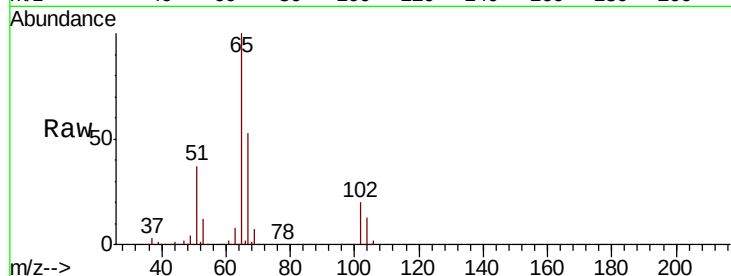




#33
 1,2-Dichloroethane-d4
 Concen: 51.71 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050388.D
 Acq: 6 Aug 2018 17:05

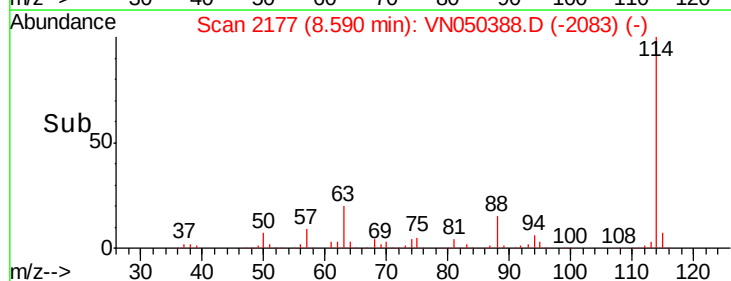
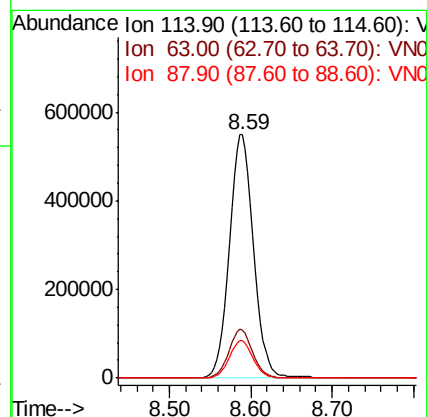
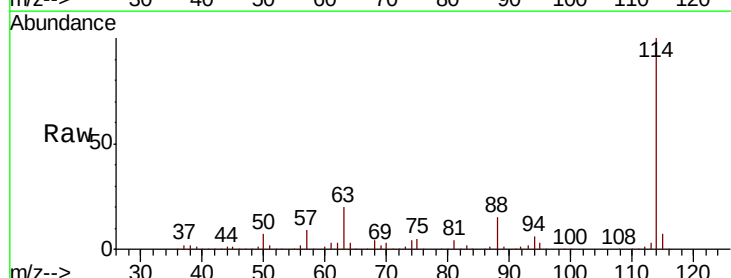
Instrument :
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 PB11760ZHE#03

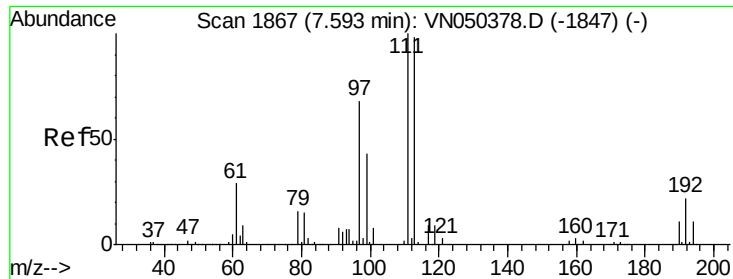
Tot Ion: 65 Resp: 480836
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050388.D
 Acq: 6 Aug 2018 17:05

Tgt Ion: 114 Resp: 1148647
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 40.0
 88 15.3 0.0 31.2

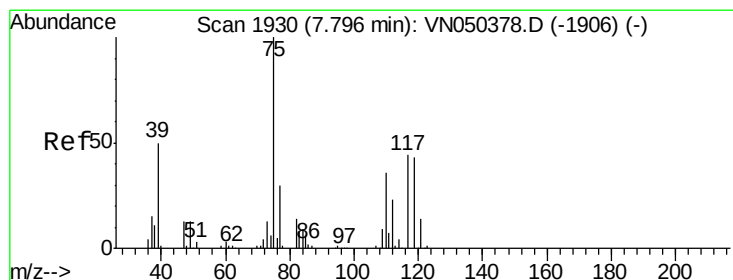
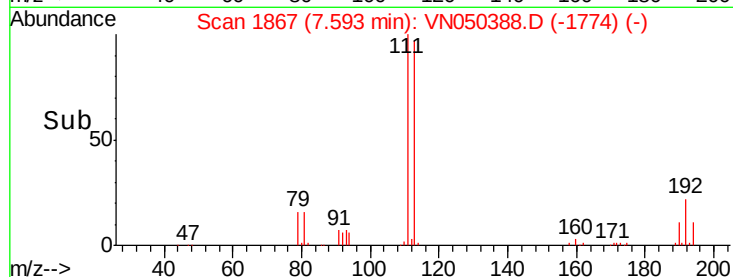
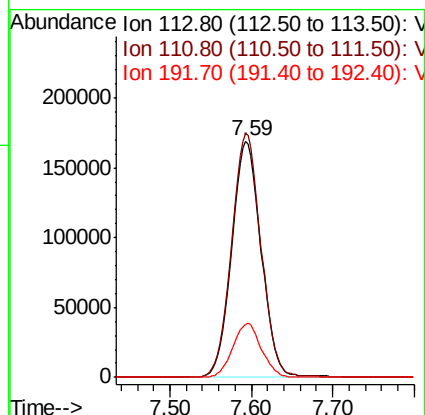
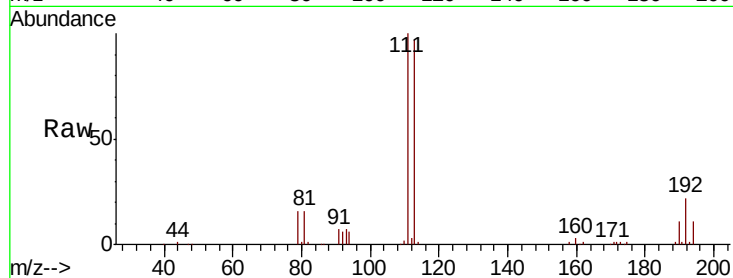




#35
 Dibromofluoromethane
 Concen: 46.13 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050388.D
 Acq: 6 Aug 2018 17:05

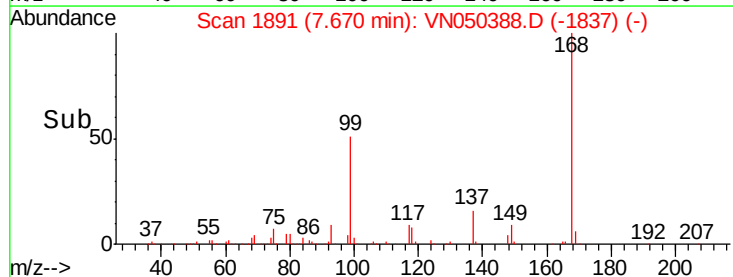
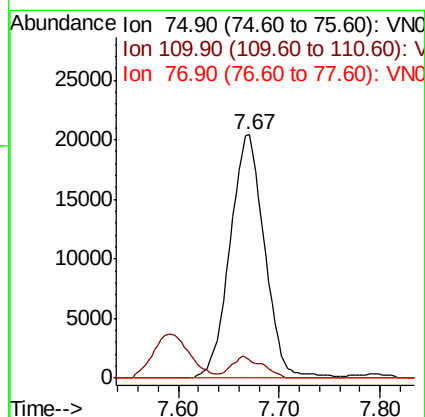
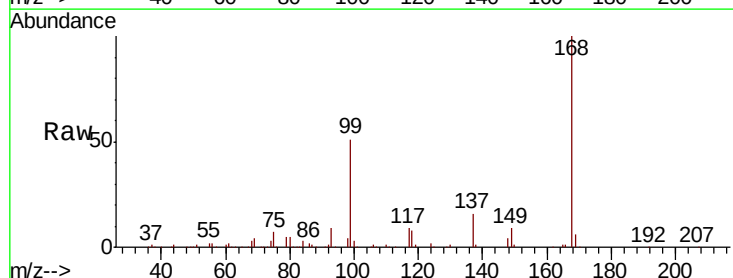
Instrument :
 MSVOA_N
 ClientSampleId :
 PB11760ZHE#03

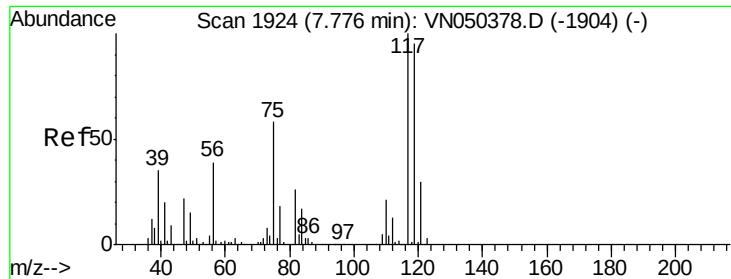
Tot Ion:113 Resp: 425176
 Ion Ratio Lower Upper
 113 100
 111 103.0 80.7 121.1
 192 22.4 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.85 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.13 min
 Lab File: VN050388.D
 Acq: 6 Aug 2018 17:05

Tgt Ion: 75 Resp: 48621
 Ion Ratio Lower Upper
 75 100
 110 8.0 18.4 55.2#
 77 0.0 25.3 37.9#

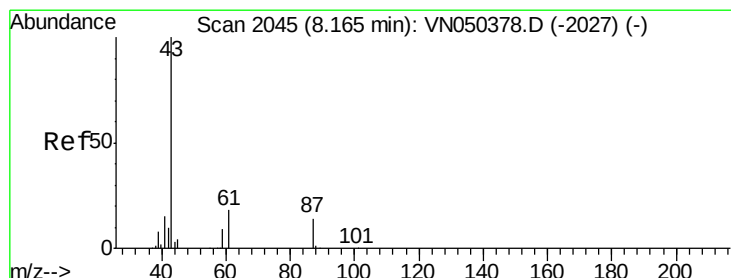
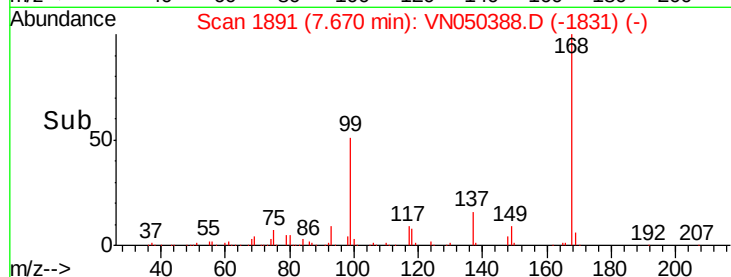
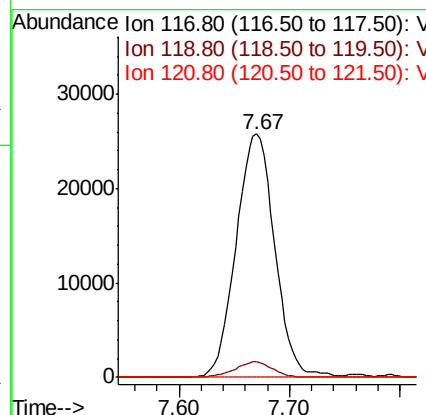
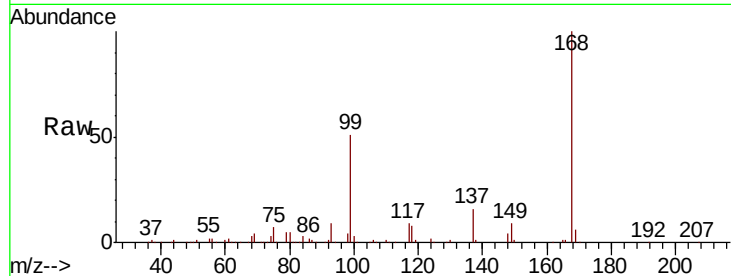




#38
Carbon Tetrachloride
Concen: 4.75 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN050388.D
Acq: 6 Aug 2018 17:05

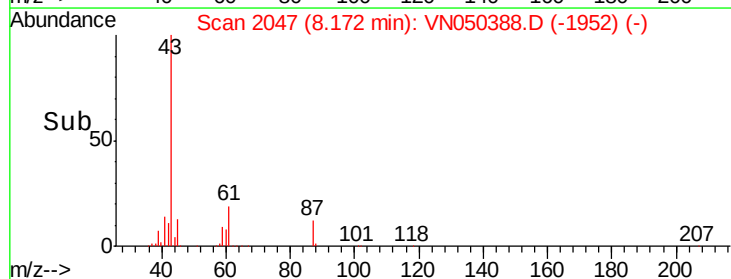
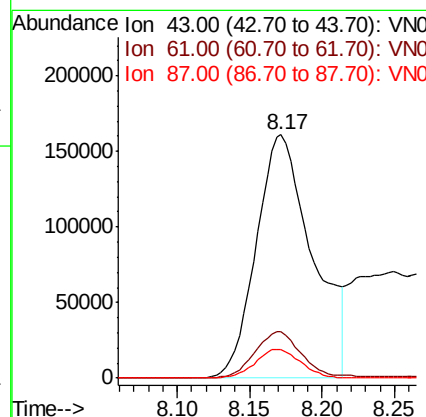
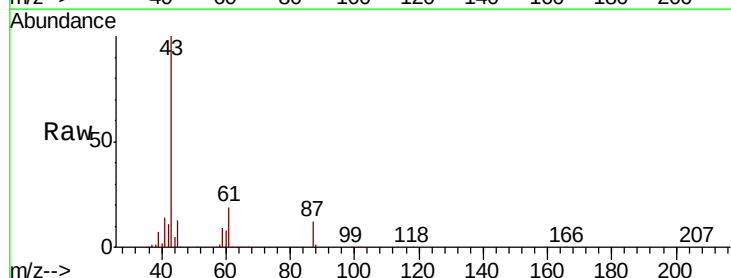
Instrument :
MSVOA_N
ClientSampled :
PB11760ZHE#03

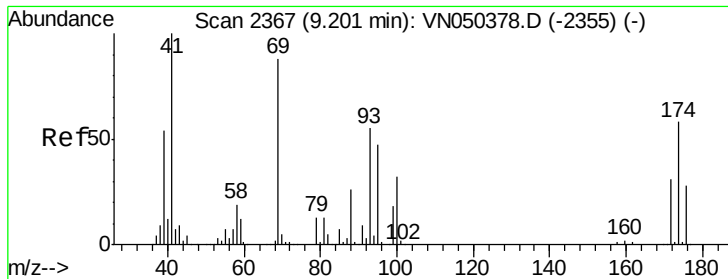
Tot Ion:117 Resp: 62544
Ion Ratio Lower Upper
117 100
119 6.5 77.4 116.0#
121 0.0 23.9 35.9#



#43
Isopropyl Acetate
Concen: 27.60 ug/l
RT: 8.17 min Scan# 2047
Delta R.T. 0.01 min
Lab File: VN050388.D
Acq: 6 Aug 2018 17:05

Tgt Ion: 43 Resp: 432977
Ion Ratio Lower Upper
43 100
61 16.3 15.8 23.6
87 9.8 10.3 15.5#

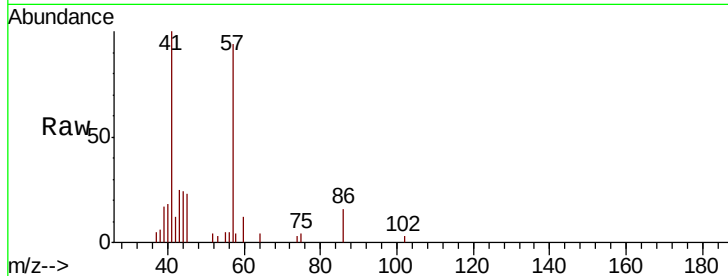




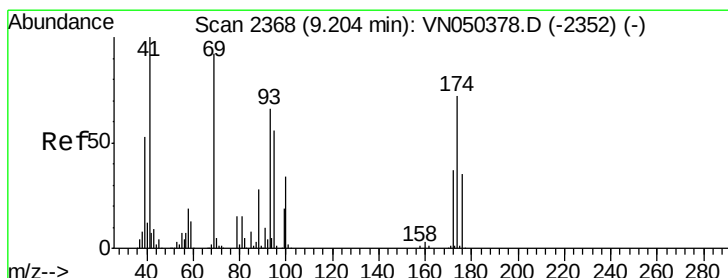
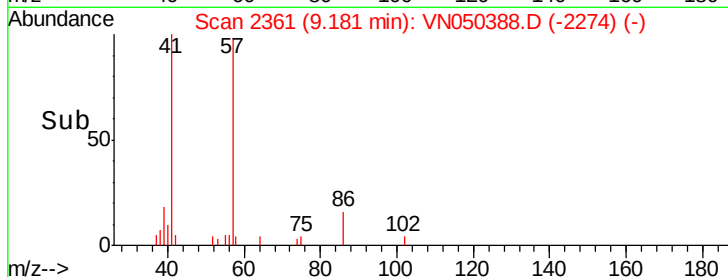
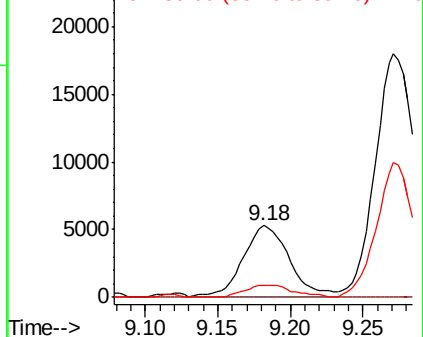
#48
Methyl methacrylate
Concen: 1.52 ug/l
RT: 9.18 min Scan# 2361
Delta R.T. -0.02 min
Lab File: VN050388.D
Acq: 6 Aug 2018 17:05

Instrument :
MSVOA_N
ClientSampleId :
PB11760ZHE#03

Tot Ion: 41 Resp: 11918
Ion Ratio Lower Upper
41 100
69 0.0 70.6 105.8#
39 17.7 43.9 65.9#

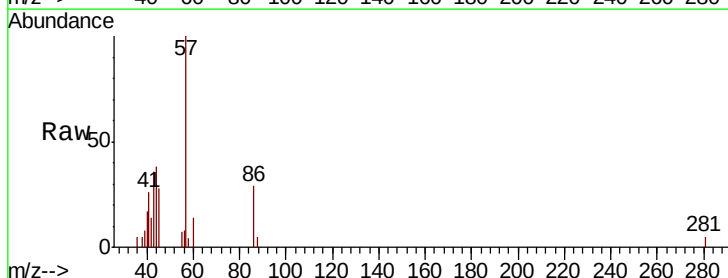


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

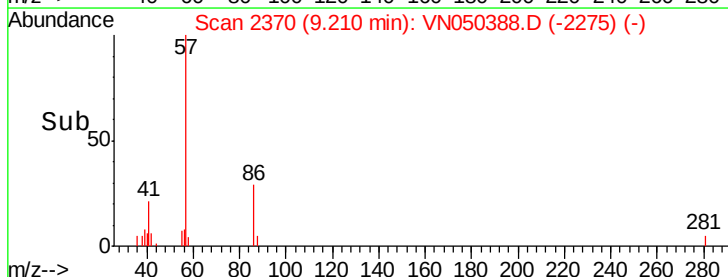
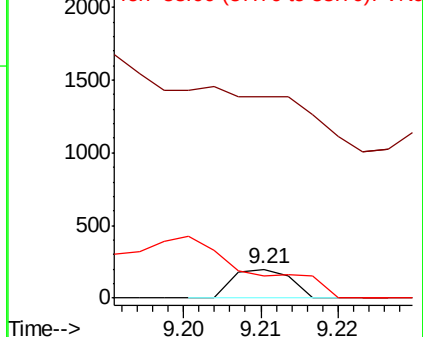


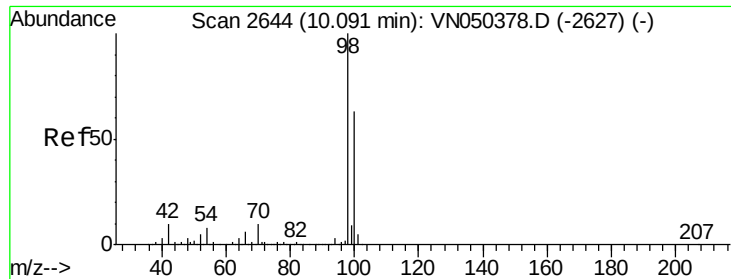
#49
1,4-Dioxane
Concen: 0.86 ug/l
RT: 9.21 min Scan# 2370
Delta R.T. 0.01 min
Lab File: VN050388.D
Acq: 6 Aug 2018 17:05

Tgt Ion: 88 Resp: 104
Ion Ratio Lower Upper
88 100
43 0.0 26.9 40.3#
58 590.4 57.3 85.9#



Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

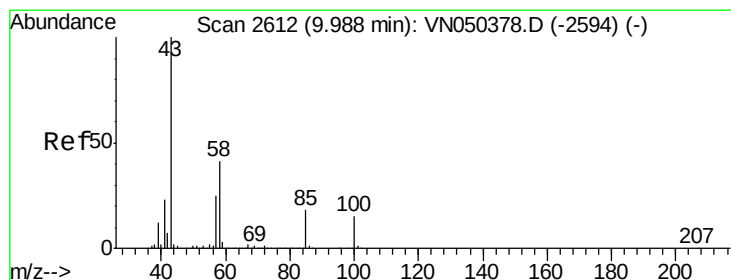
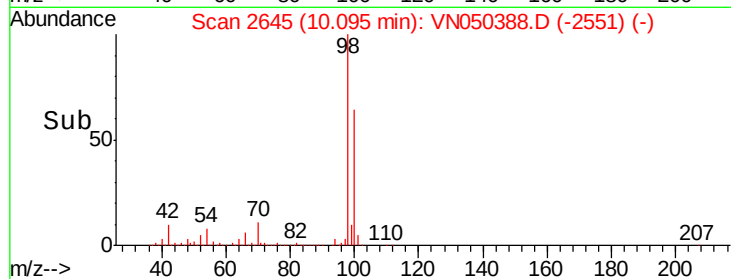
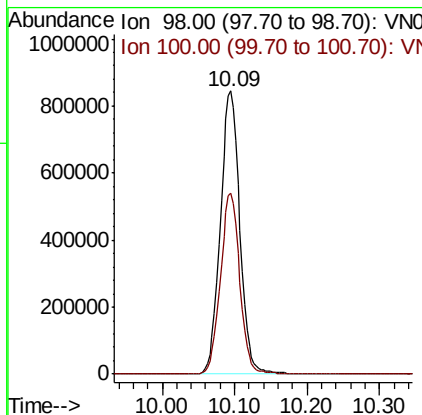
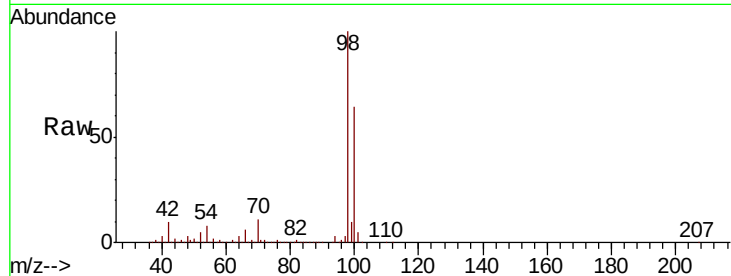




#50
Toluene-d8
Concen: 45.25 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050388.D
Acq: 6 Aug 2018 17:05

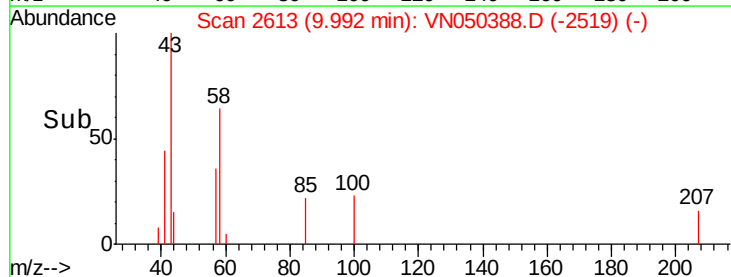
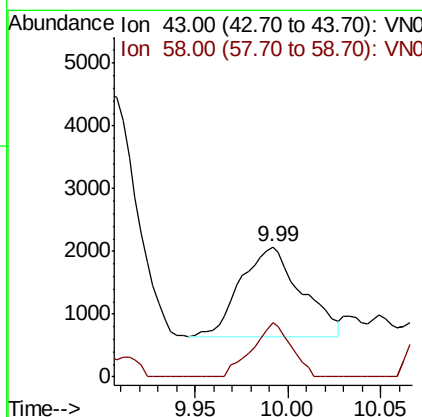
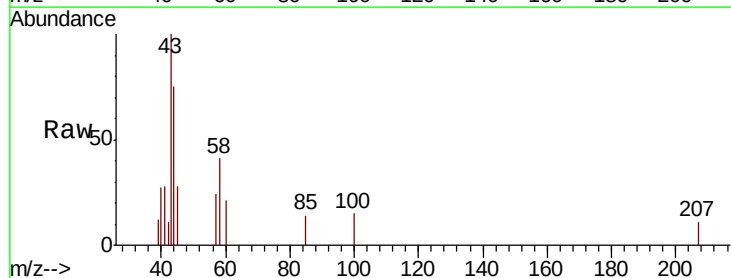
Instrument :
MSVOA_N
ClientSampleId :
PB11760ZHE#03

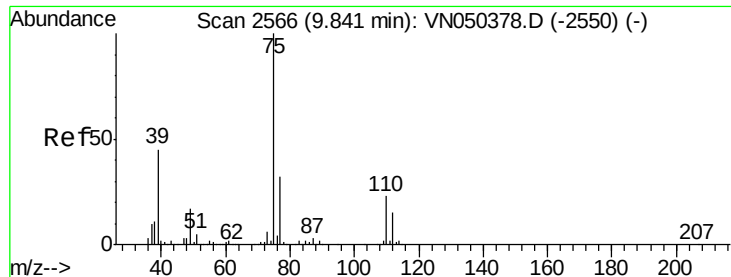
Tot Ion: 98 Resp: 1568121
Ion Ratio Lower Upper
98 100
100 63.5 50.7 76.1



#51
4-Methyl-2-Pentanone
Concen: 0.29 ug/l
RT: 9.99 min Scan# 2613
Delta R.T. 0.00 min
Lab File: VN050388.D
Acq: 6 Aug 2018 17:05

Tgt Ion: 43 Resp: 3282
Ion Ratio Lower Upper
43 100
58 38.1 31.9 47.9





#54

cis-1,3-Dichloropropene

Concen: 0.23 ug/l

RT: 9.90 min Scan# 2586

Delta R.T. 0.06 min

Lab File: VN050388.D

Acq: 6 Aug 2018 17:05

Instrument :

MSVOA_N

ClientSampleId :

PB11760ZHE#03

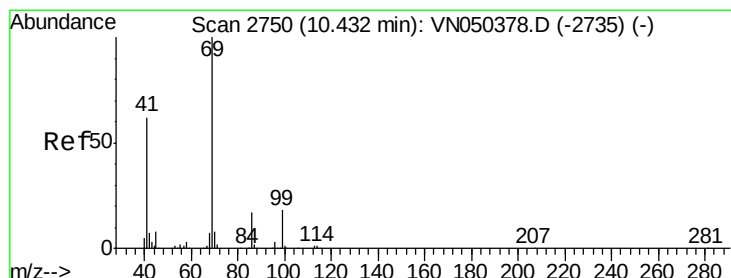
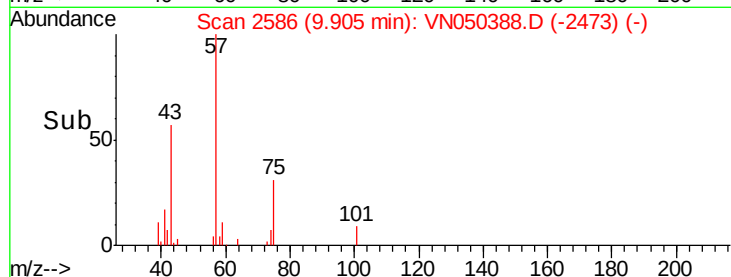
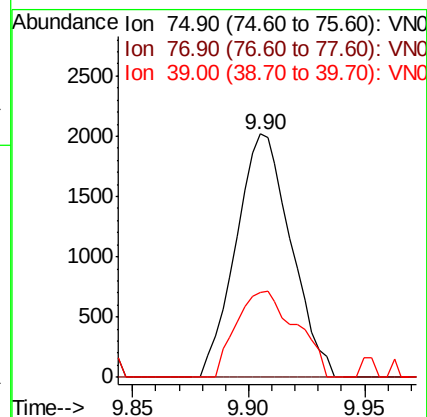
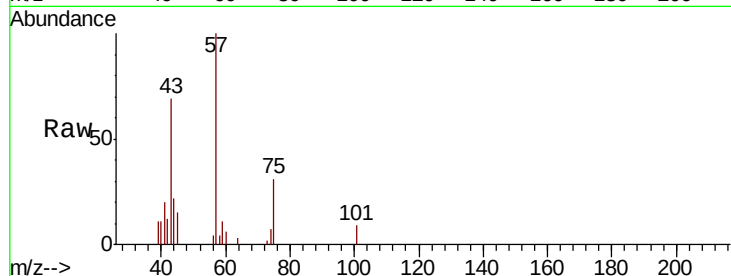
Tot Ion: 75 Resp: 3322

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

39 35.0 36.6 55.0#



#56

Ethyl methacrylate

Concen: 1.78 ug/l

RT: 10.64 min Scan# 2815

Delta R.T. 0.21 min

Lab File: VN050388.D

Acq: 6 Aug 2018 17:05

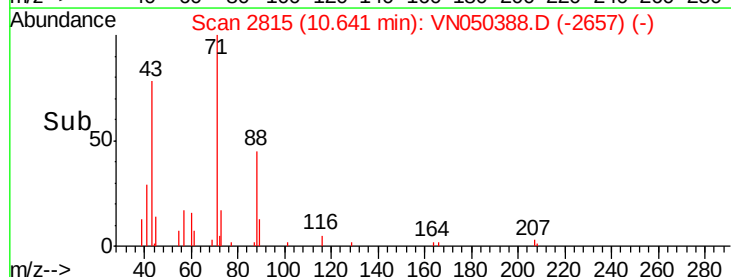
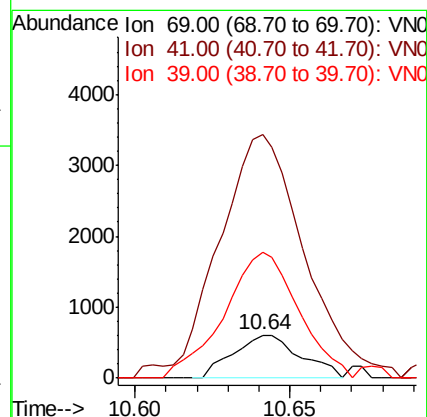
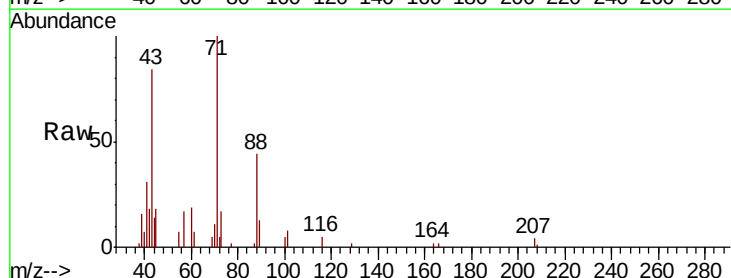
Tgt Ion: 69 Resp: 913

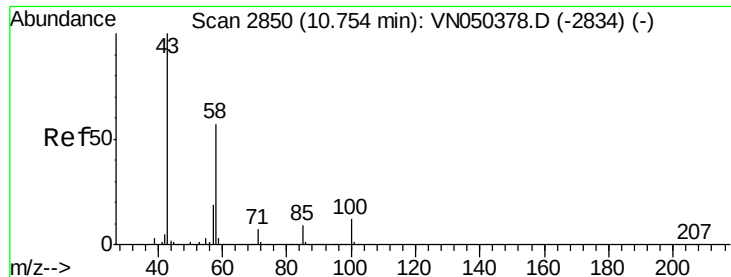
Ion Ratio Lower Upper

69 100

41 726.6 51.0 76.4#

39 324.9 26.6 40.0#





#59

2-Hexanone

Concen: 3.30 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050388.D

Acq: 6 Aug 2018 17:05

Instrument :

MSVOA_N

ClientSampleId :

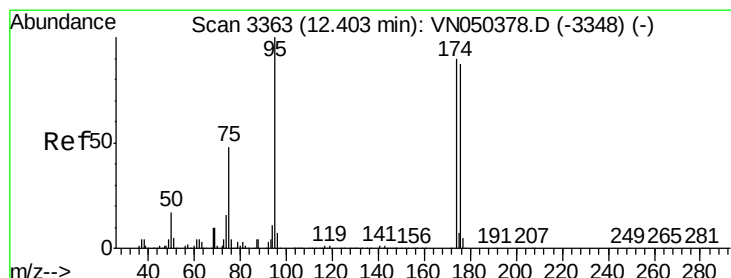
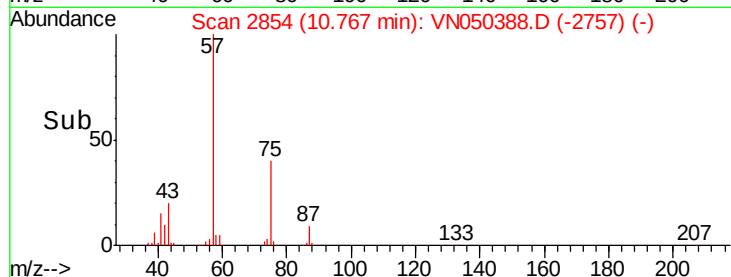
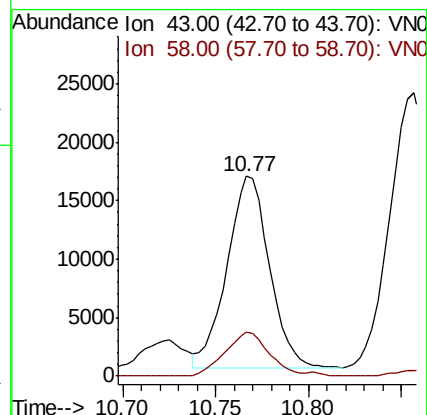
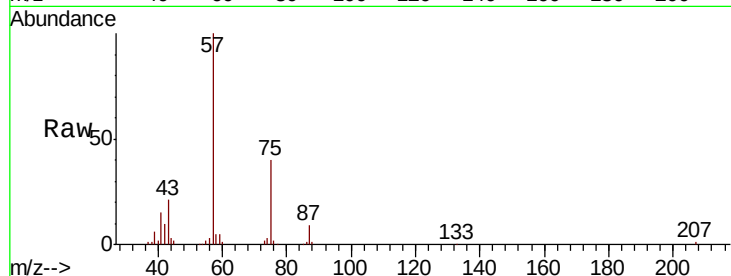
PB11760ZHE#03

Tot Ion: 43 Resp: 26021

Ion Ratio Lower Upper

43 100

58 23.8 27.6 82.7#



#62

4-Bromofluorobenzene

Concen: 39.22 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050388.D

Acq: 6 Aug 2018 17:05

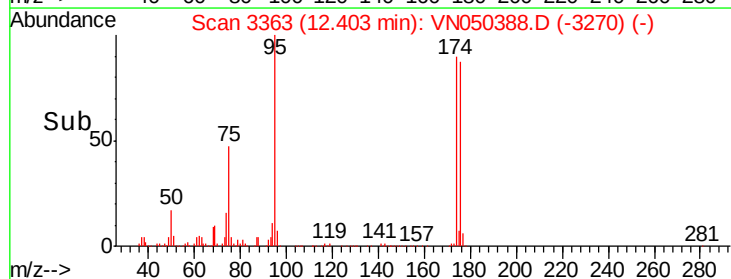
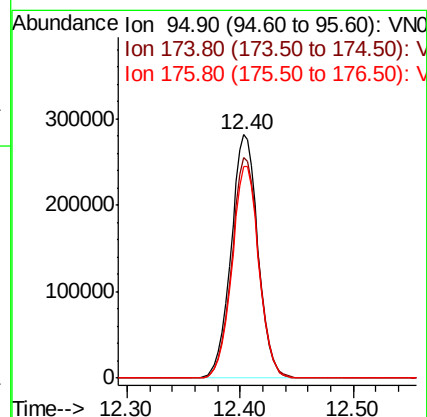
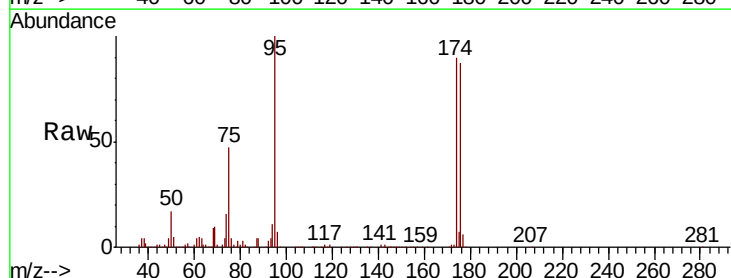
Tgt Ion: 95 Resp: 463253

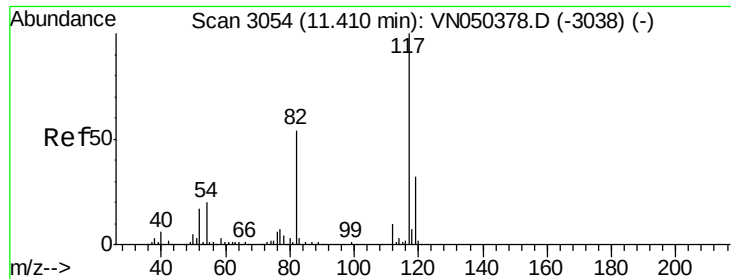
Ion Ratio Lower Upper

95 100

174 91.2 0.0 178.2

176 87.1 0.0 173.4

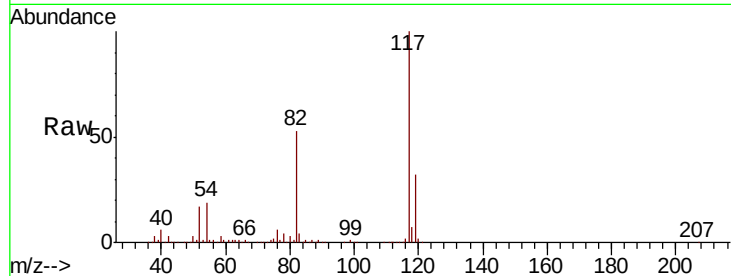




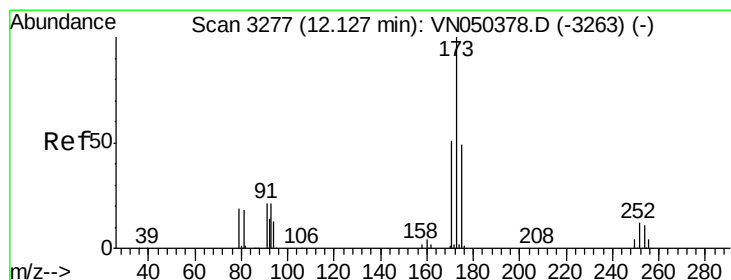
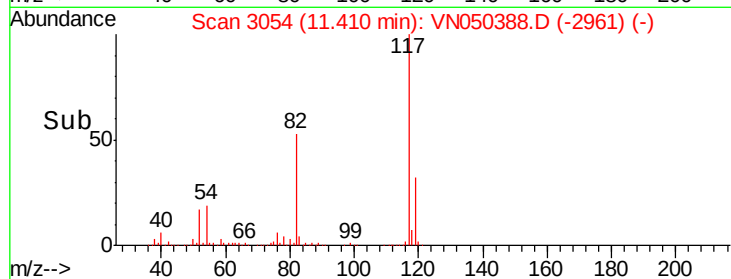
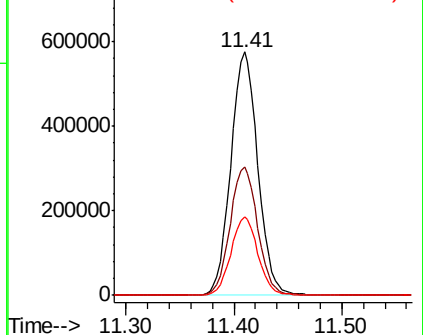
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050388.D
Acq: 6 Aug 2018 17:05

Instrument :
MSVOA_N
ClientSampleId :
PB11760ZHE#03

Tot Ion:117 Resp: 1000030
Ion Ratio Lower Upper
117 100
82 52.6 43.7 65.5
119 32.1 26.1 39.1

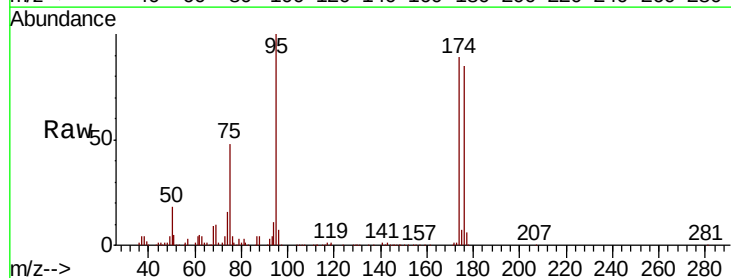


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

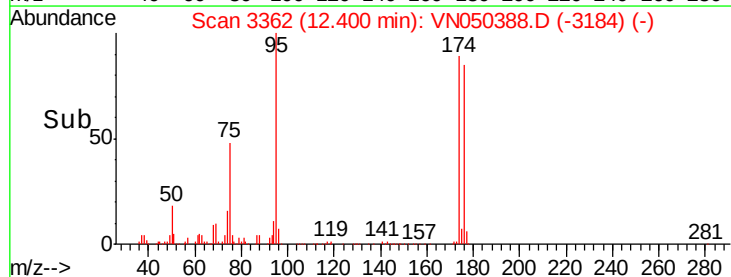
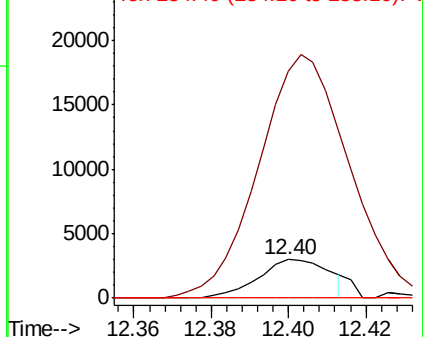


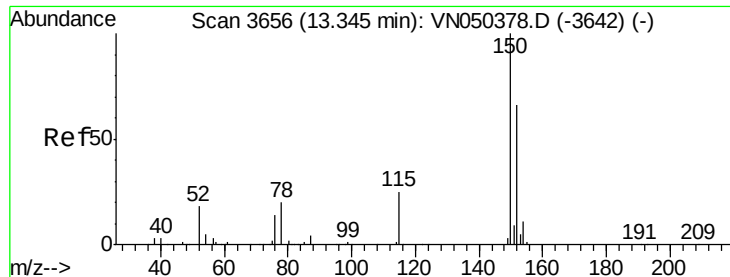
#71
Bromoform
Concen: 0.57 ug/l
RT: 12.40 min Scan# 3362
Delta R.T. 0.27 min
Lab File: VN050388.D
Acq: 6 Aug 2018 17:05

Tgt Ion:173 Resp: 3825
Ion Ratio Lower Upper
173 100
175 660.3 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: VN050388.D

Acq: 6 Aug 2018 17:05

Instrument :

MSVOA_N

ClientSampleId :

PB11760ZHE#03

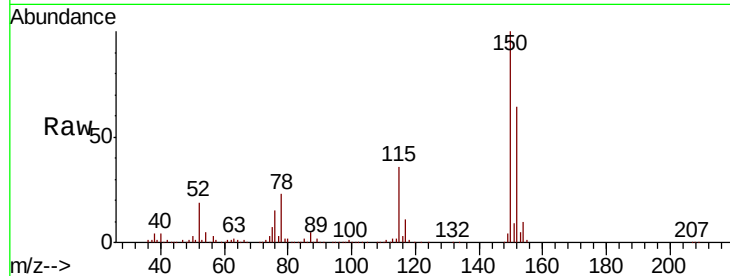
Tot Ion:152 Resp: 407972

Ion Ratio Lower Upper

152 100

115 56.3 27.8 83.3

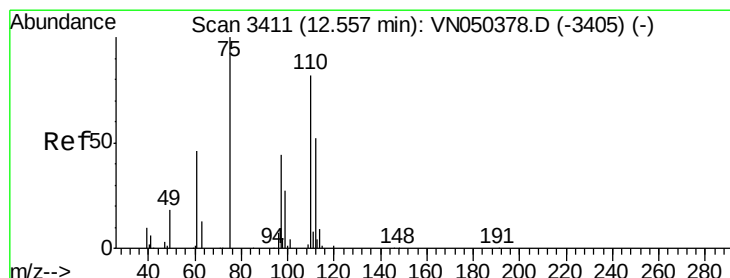
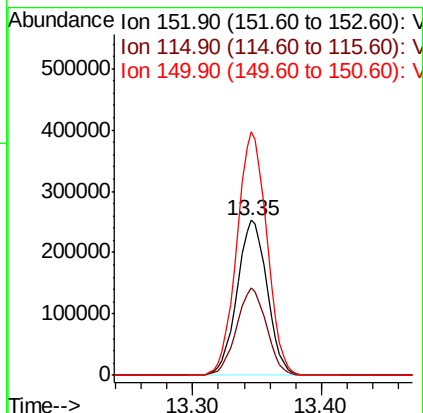
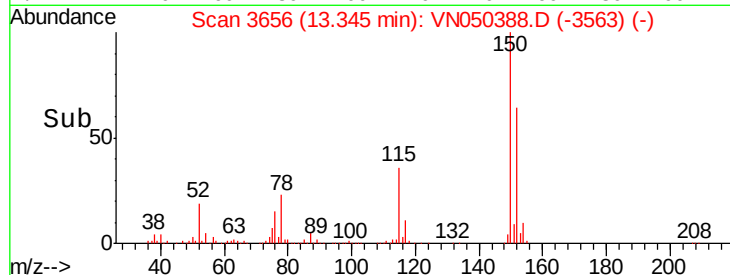
150 157.1 0.0 348.6



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: 30.11 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050388.D

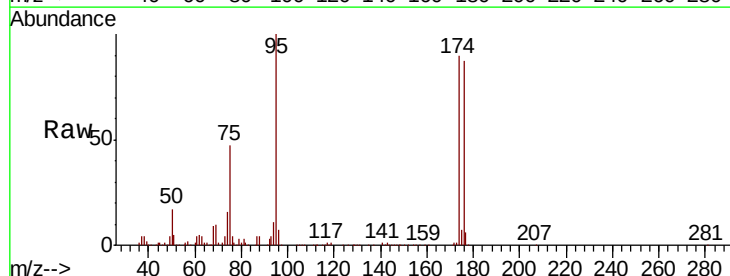
Acq: 6 Aug 2018 17:05

Tgt Ion: 75 Resp: 222344

Ion Ratio Lower Upper

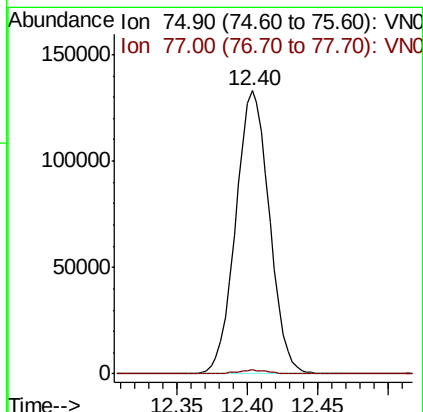
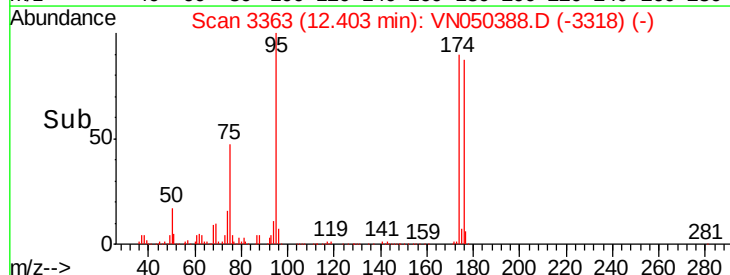
75 100

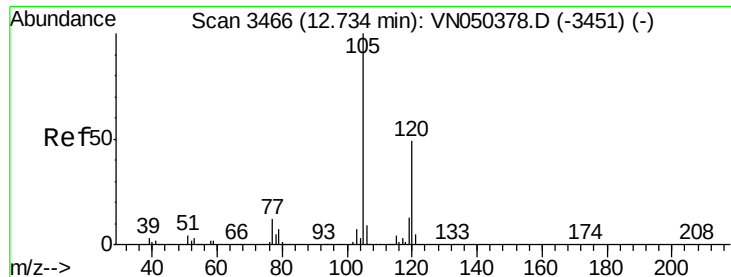
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.29 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050388.D

Acq: 6 Aug 2018 17:05

Instrument :

MSVOA_N

ClientSampleId :

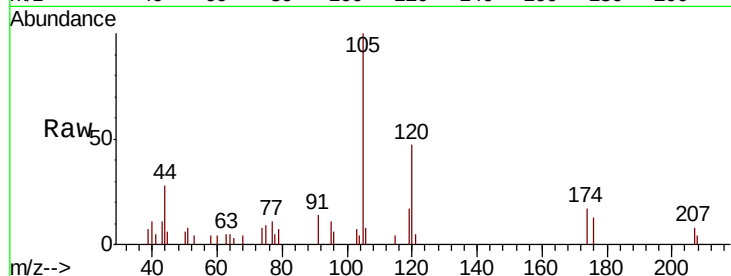
PB11760ZHE#03

Tot Ion:105 Resp: 7153

Ion Ratio Lower Upper

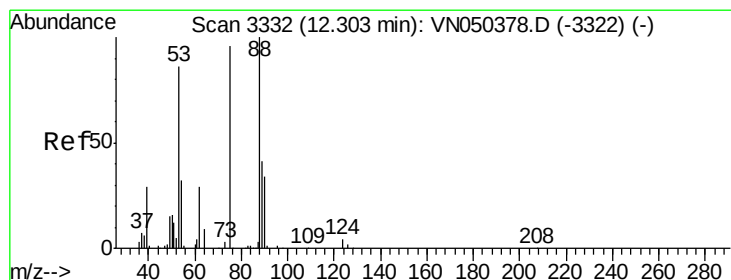
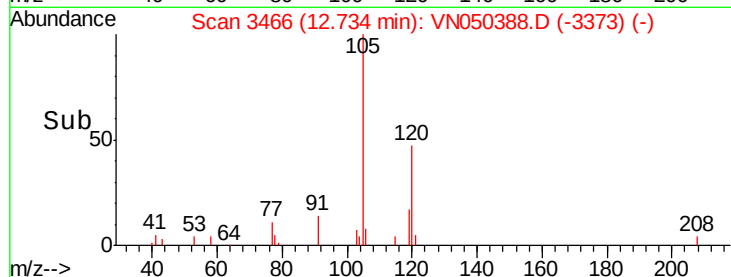
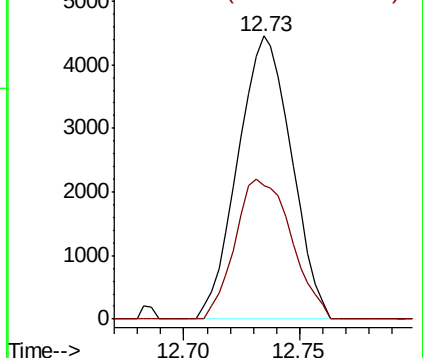
105 100

120 51.8 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 105.79 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050388.D

Acq: 6 Aug 2018 17:05

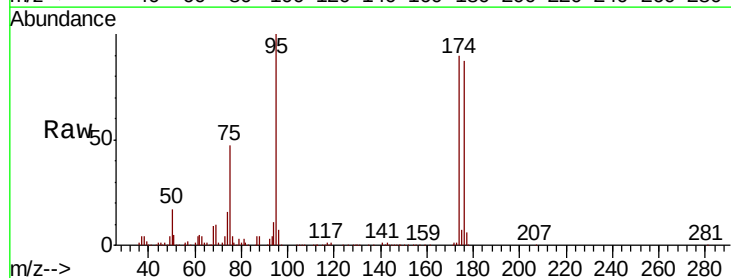
Tgt Ion: 75 Resp: 222344

Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

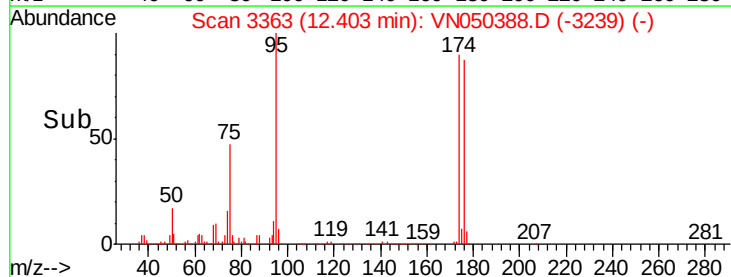
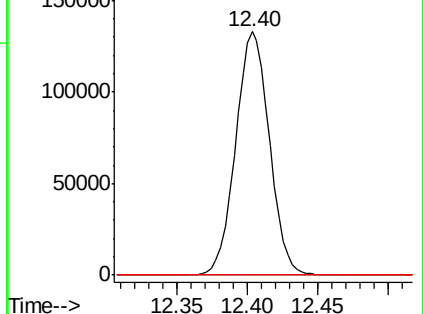
89 0.0 36.0 54.0#

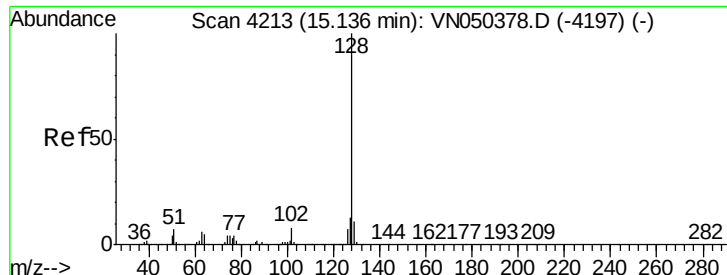


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#95

Naphthalene

Concen: 3.69 ug/l

RT: 15.14 min Scan# 4215

Delta R.T. 0.01 min

Lab File: VN050388.D

Acq: 6 Aug 2018 17:05

Instrument :

MSVOA_N

ClientSampleId :

PB11760ZHE#03

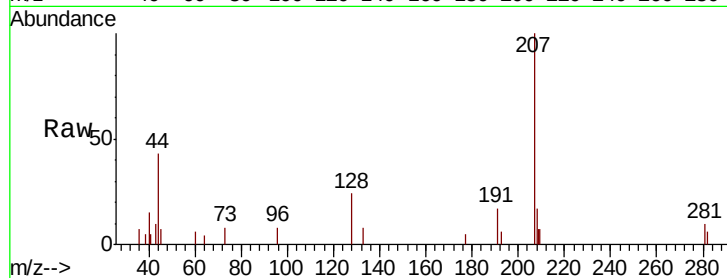
Tot Ion:128 Resp: 1488

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

