

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111918\
 Data File : VN052390.D
 Acq On : 19 Nov 2018 17:33
 Operator : MD\SY
 Sample : PB114846ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114846ZHE#06

Quant Time: Nov 20 07:13:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	293852	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	487585	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	425691	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	146278	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	212350	51.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.34%	
35) Dibromofluoromethane	7.59	113	161746	51.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.86%	
50) Toluene-d8	10.09	98	624188	50.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.90%	
62) 4-Bromofluorobenzene	12.40	95	183906	45.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.38%	

Target Compounds

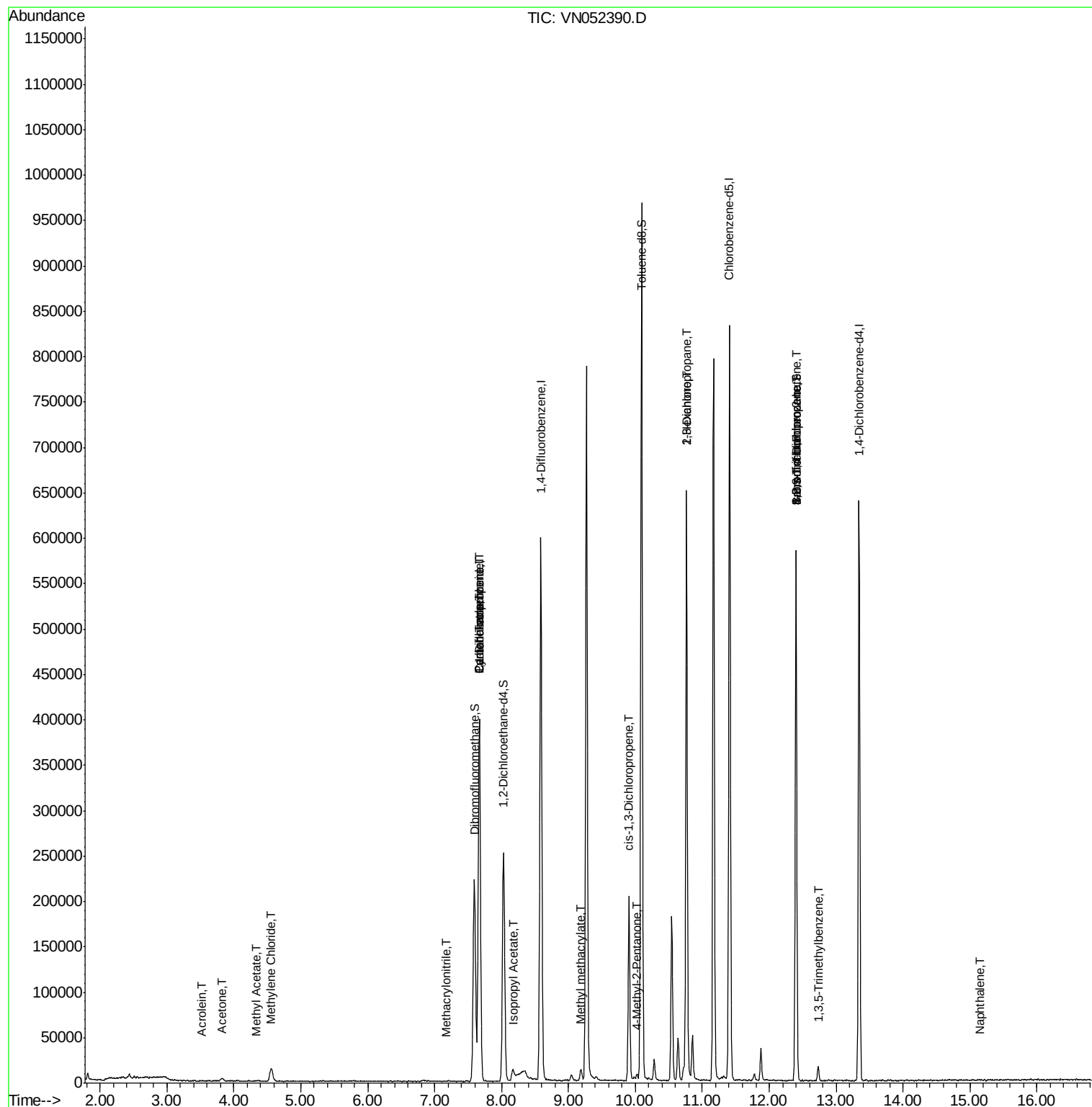
						Qvalue
13) Acrolein	3.52	56	69	21.961	ug/l #	66
16) Acetone	3.83	43	4853	4.247	ug/l	99
18) Methyl Acetate	4.34	43	1179	0.797	ug/l #	83
20) Methylene Chloride	4.55	84	9370	2.023	ug/l	93
31) Cyclohexane	7.67	56	9717	0.490	ug/l #	48
36) 1,1-Dichloropropene	7.67	75	28130	5.756	ug/l #	52
38) Carbon Tetrachloride	7.67	117	31717	7.064	ug/l #	15
41) Methacrylonitrile	7.17	41	146	3.764	ug/l #	100
43) Isopropyl Acetate	8.17	43	17038	2.489	ug/l #	92
48) Methyl methacrylate	9.18	41	5197	1.496	ug/l #	16
51) 4-Methyl-2-Pentanone	10.02	43	5106	1.482	ug/l #	41
54) cis-1,3-Dichloropropene	9.90	75	29486	5.449	ug/l #	75
57) 1,3-Dichloropropane	10.76	76	5982	1.115	ug/l #	43
59) 2-Hexanone	10.76	43	107964	45.561	ug/l #	54
71) Bromoform	12.39	173	920	0.508	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	105558	42.528	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7077	0.757	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	105558	137.936	ug/l #	5
95) Naphthalene	15.14	128	32	2.610	ug/l #	69

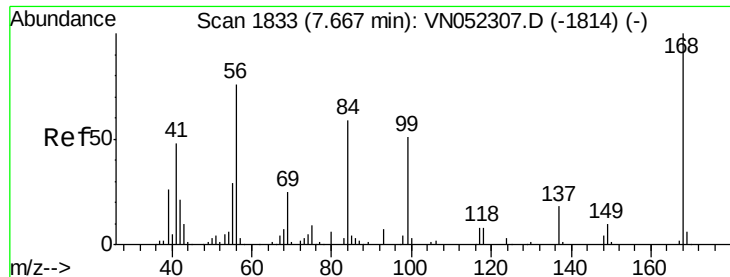
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052390.D

Acq: 19 Nov 2018 17:33

Instrument :

MSVOA_N

ClientSampleId :

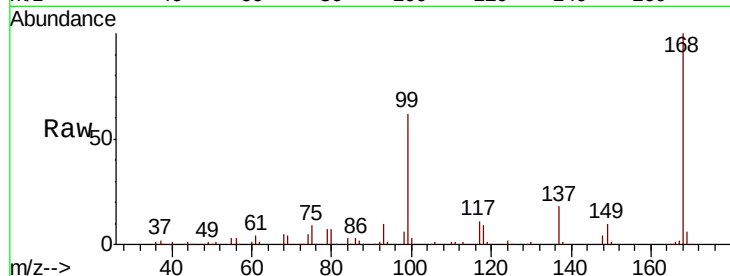
PB114846ZHE#06

Tot Ion:168 Resp: 293852

Ion Ratio Lower Upper

168 100

99 61.6 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

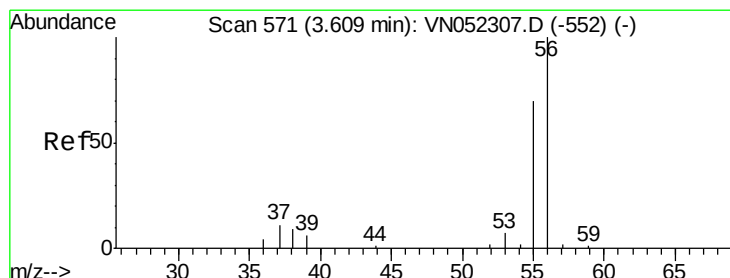
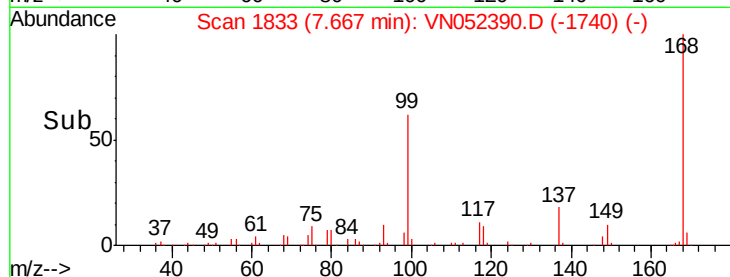
100000

50000

0

Time-->

7.60 7.70



#13

Acrolein

Concen: 21.961 ug/l

RT: 3.52 min Scan# 544

Delta R.T. -0.09 min

Lab File: VN052390.D

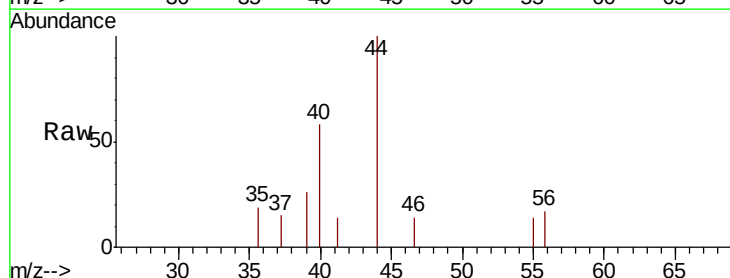
Acq: 19 Nov 2018 17:33

Tgt Ion: 56 Resp: 69

Ion Ratio Lower Upper

56 100

55 43.5 57.6 86.4#



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 55.00 (54.70 to 55.70): VN

3.52

200

150

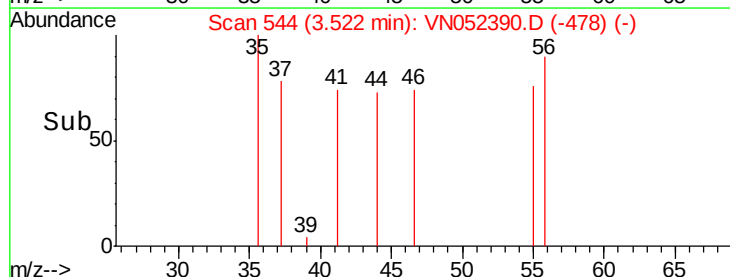
100

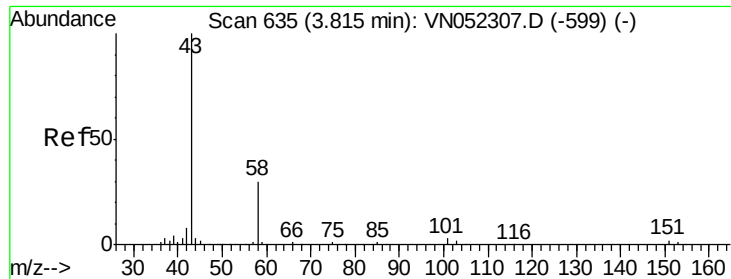
50

0

Time-->

3.51 3.52 3.53





#16

Acetone

Concen: 4.247 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN052390.D

Acq: 19 Nov 2018 17:33

Instrument :

MSVOA_N

ClientSampleId :

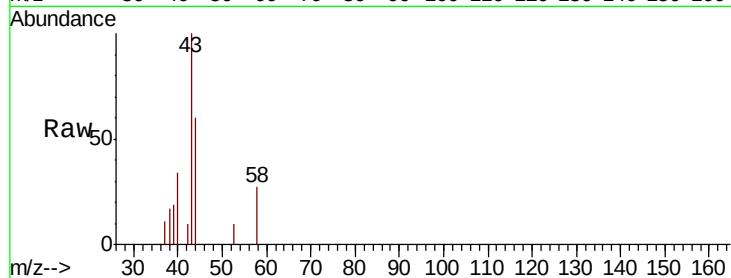
PB114846ZHE#06

Tot Ion: 43 Resp: 4853

Ion Ratio Lower Upper

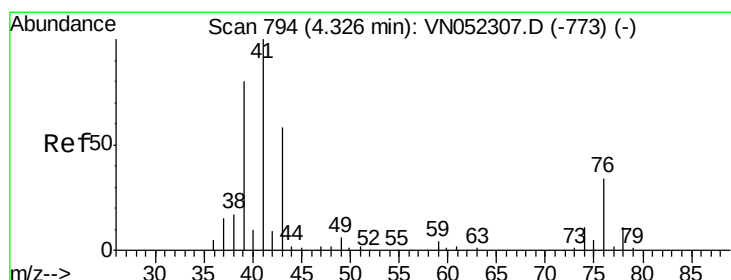
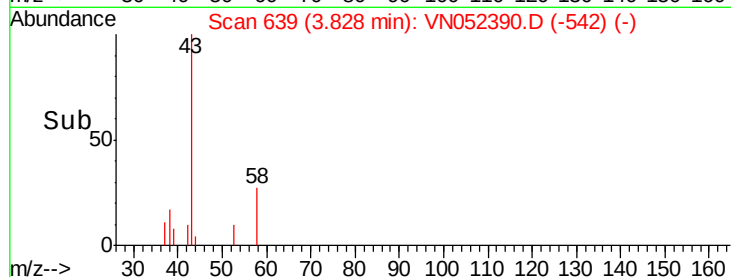
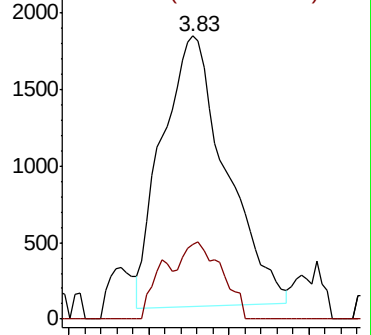
43 100

58 29.6 24.2 36.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.797 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN052390.D

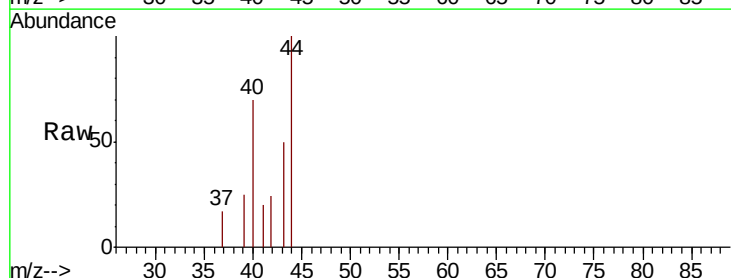
Acq: 19 Nov 2018 17:33

Tgt Ion: 43 Resp: 1179

Ion Ratio Lower Upper

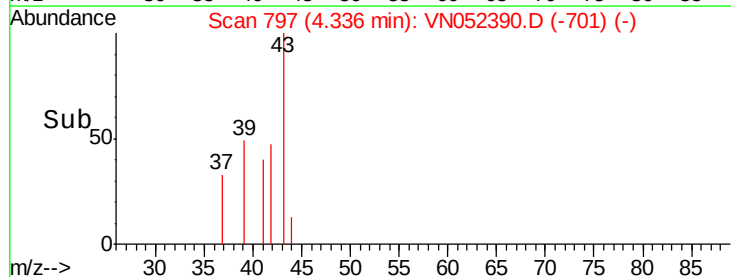
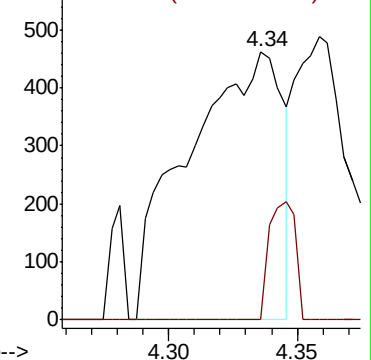
43 100

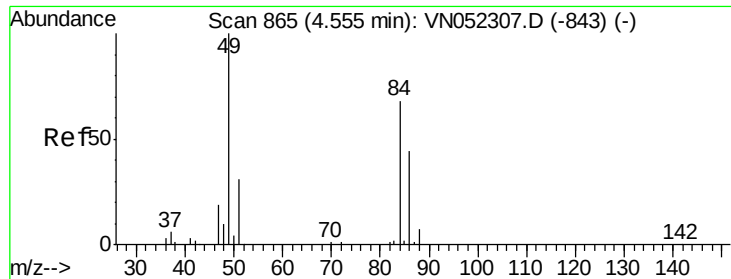
74 12.1 15.9 23.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

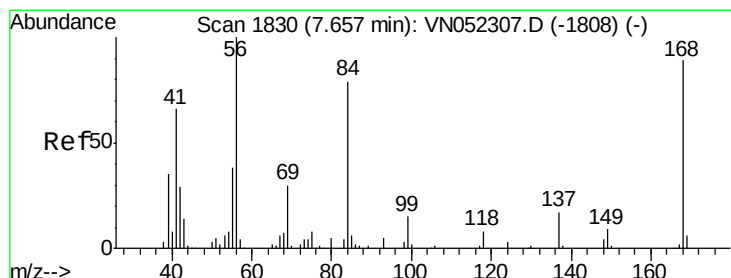
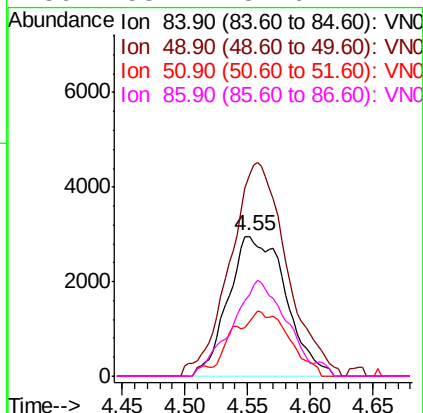
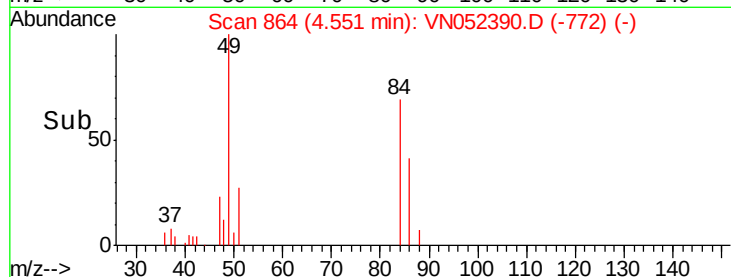
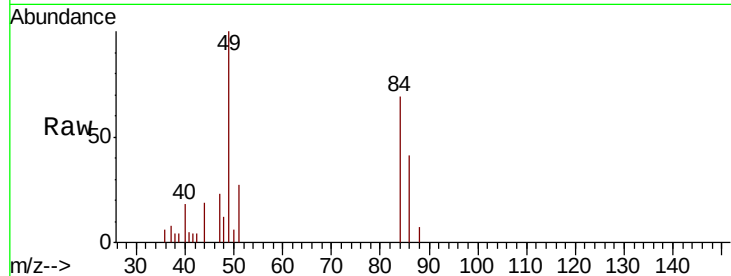




#20
Methvlene Chloride
Concen: 2.023 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN052390.D
Acq: 19 Nov 2018 17:33

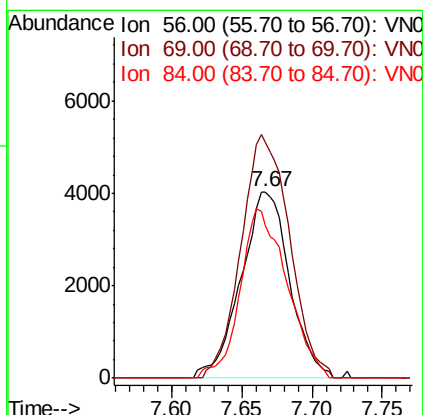
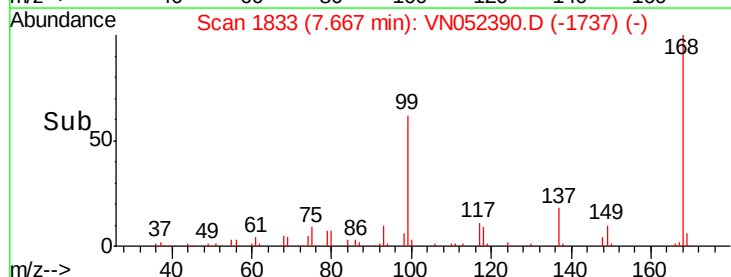
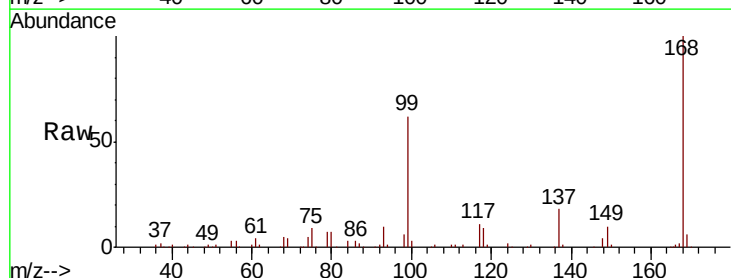
Instrument :
MSVOA_N
ClientSampleId :
PB114846ZHE#06

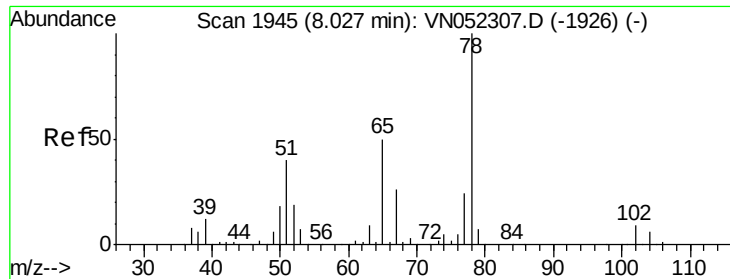
Tot Ion:	84	Resp:	9370
Ion	Ratio	Lower	Upper
84	100		
49	139.2	118.2	177.2
51	39.2	36.1	54.1
86	58.7	51.6	77.4



#31
Cyclohexane
Concen: 0.490 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN052390.D
Acq: 19 Nov 2018 17:33

Tgt Ion:	56	Resp:	9717
Ion	Ratio	Lower	Upper
56	100		
69	126.7	23.8	35.8#
84	82.0	63.0	94.6





#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN052390.D

Acq: 19 Nov 2018 17:33

Instrument :

MSVOA_N

ClientSampleId :

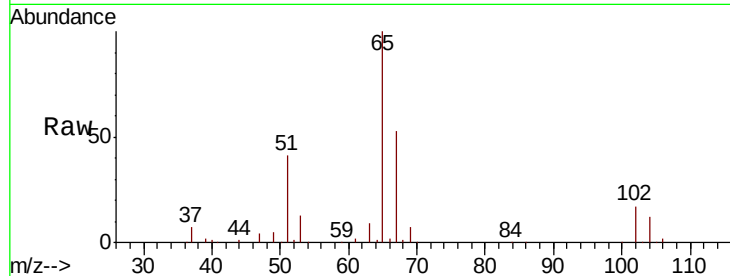
PB114846ZHE#06

Tot Ion: 65 Resp: 212350

Ion Ratio Lower Upper

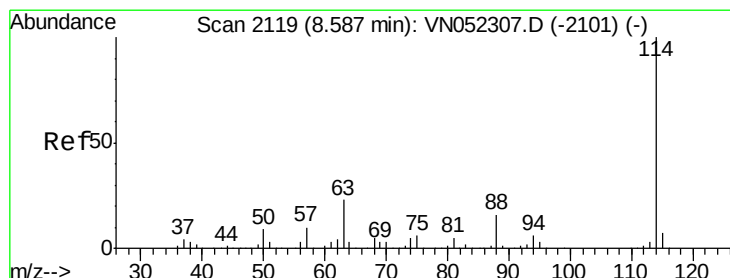
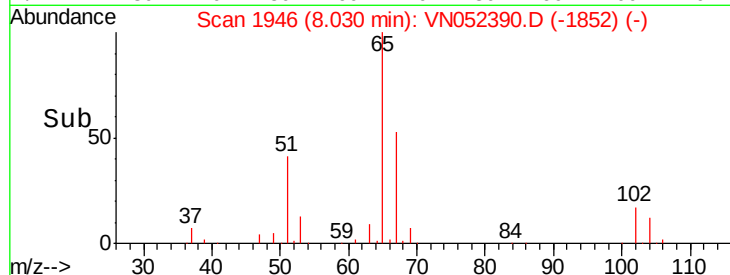
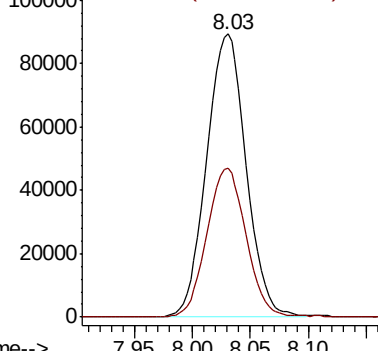
65 100

67 52.2 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN052390.D

Acq: 19 Nov 2018 17:33

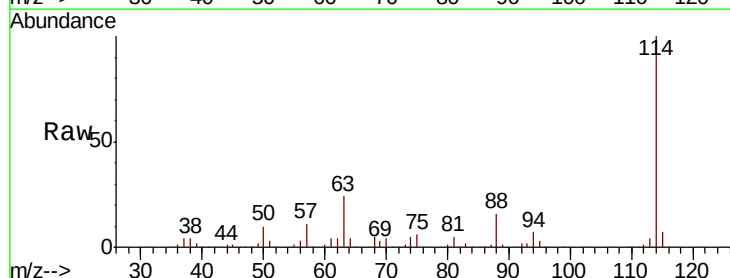
Tgt Ion:114 Resp: 487585

Ion Ratio Lower Upper

114 100

63 23.9 0.0 45.4

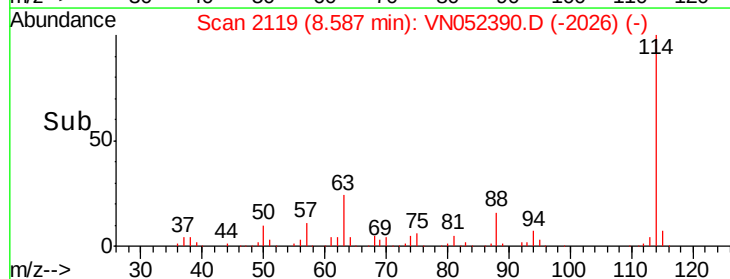
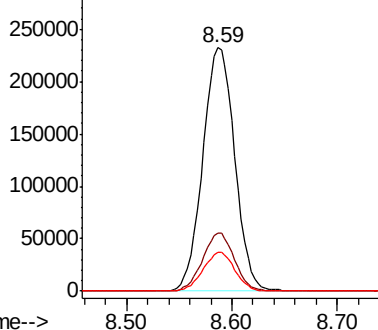
88 15.9 0.0 31.2

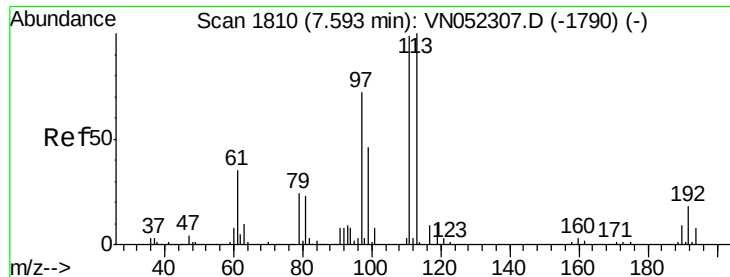


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

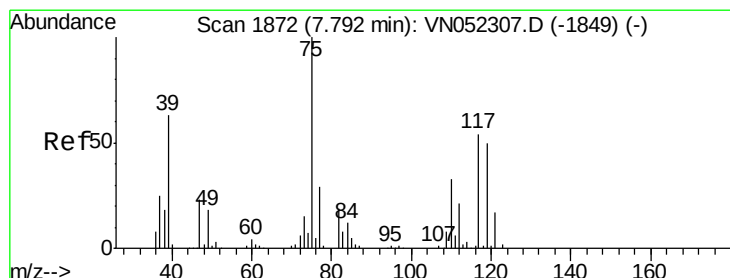
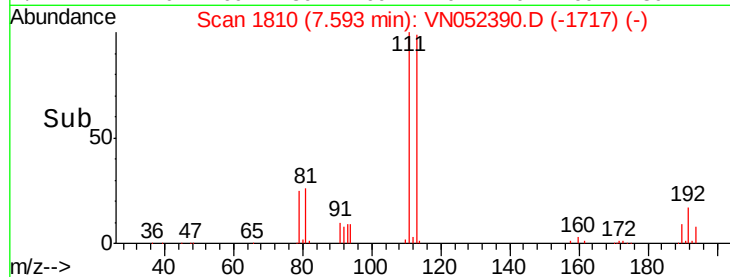
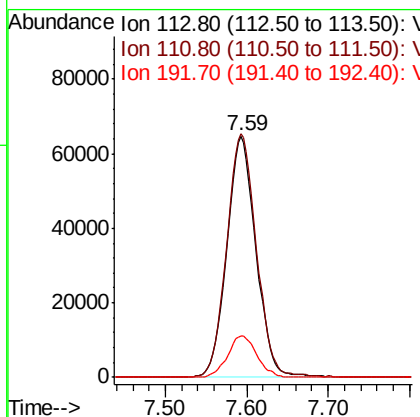
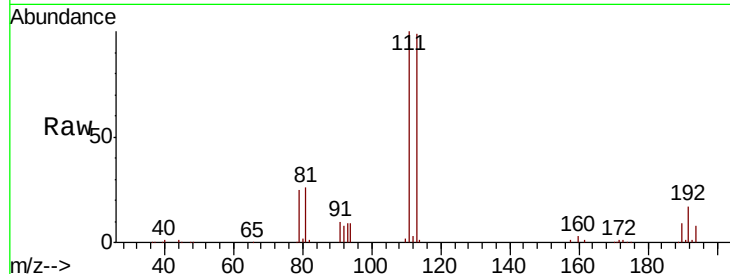




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN052390.D
 Acq: 19 Nov 2018 17:33

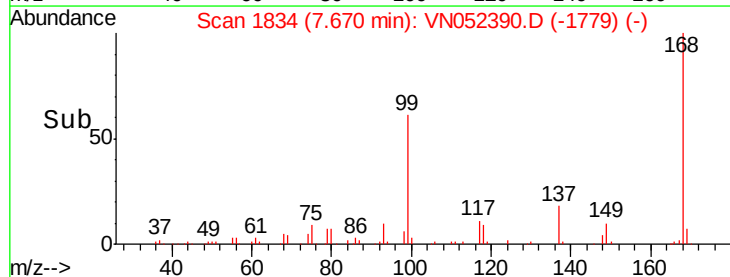
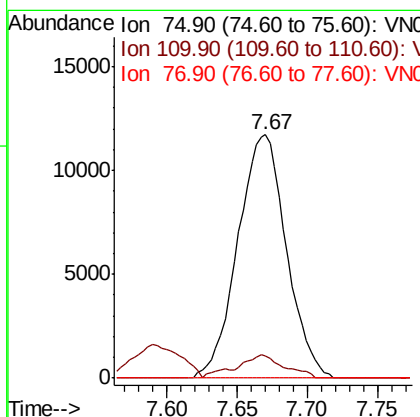
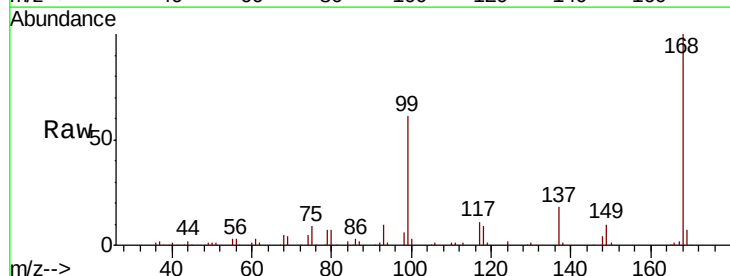
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114846ZHE#06

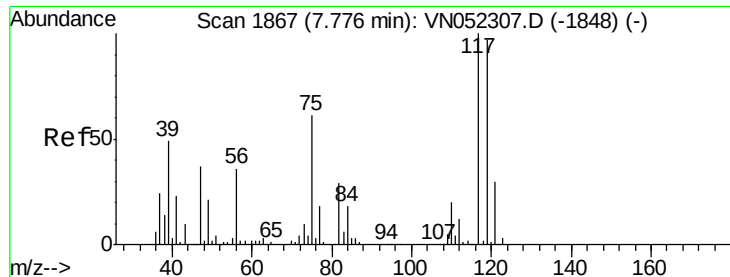
Tot Ion:113 Resp: 161746
 Ion Ratio Lower Upper
 113 100
 111 102.4 81.0 121.6
 192 17.4 13.8 20.6



#36
 1,1-Dichloropropene
 Concen: 5.756 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN052390.D
 Acq: 19 Nov 2018 17:33

Tgt Ion: 75 Resp: 28130
 Ion Ratio Lower Upper
 75 100
 110 9.3 16.5 49.5#
 77 0.0 24.2 36.2#





#38

Carbon Tetrachloride

Concen: 7.064 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052390.D

Acq: 19 Nov 2018 17:33

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#06

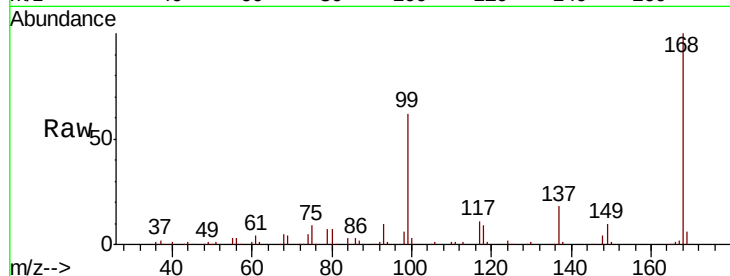
Tot Ion:117 Resp: 31717

Ion Ratio Lower Upper

117 100

119 4.6 77.4 116.0#

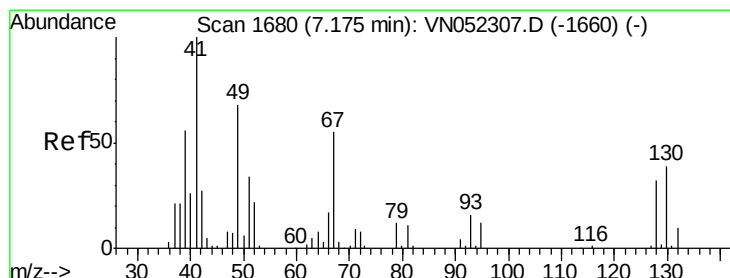
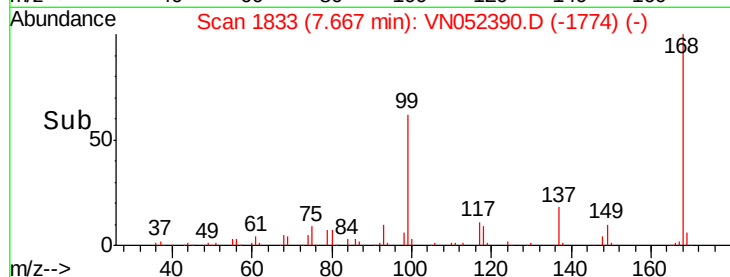
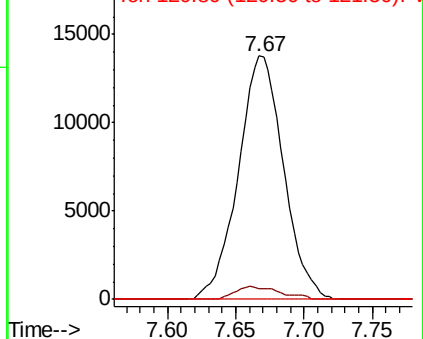
121 0.0 24.0 36.0#



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



#41

Methacrylonitrile

Concen: 3.764 ug/l

RT: 7.17 min Scan# 1678

Delta R.T. -0.01 min

Lab File: VN052390.D

Acq: 19 Nov 2018 17:33

Tgt Ion: 41 Resp: 146

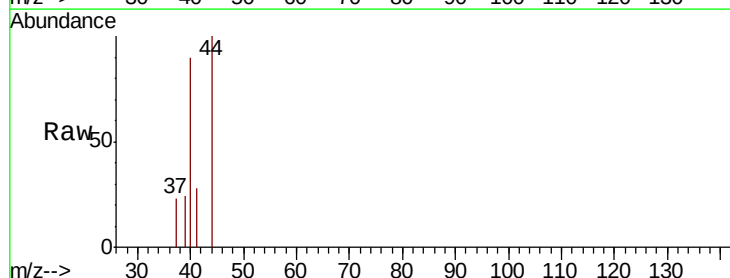
Ion Ratio Lower Upper

41 100

39 124.0 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

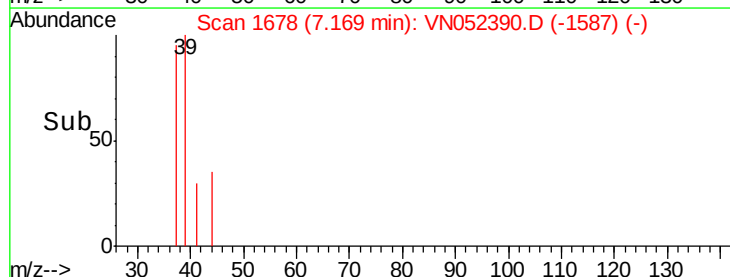
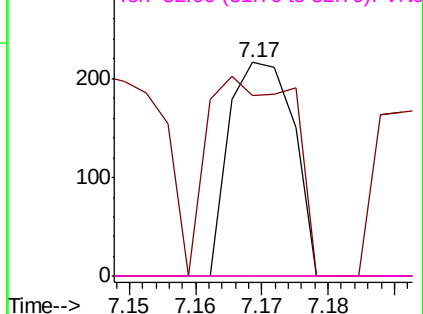


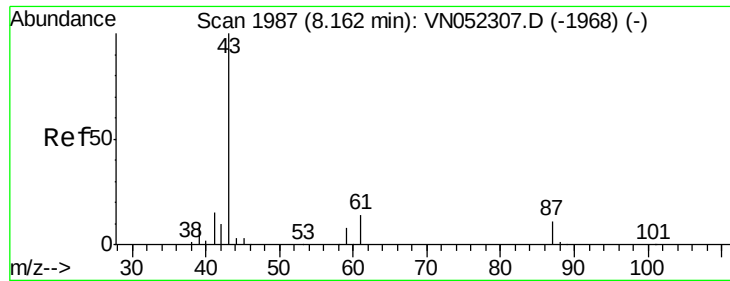
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 2.489 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.01 min

Lab File: VN052390.D

Acq: 19 Nov 2018 17:33

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#06

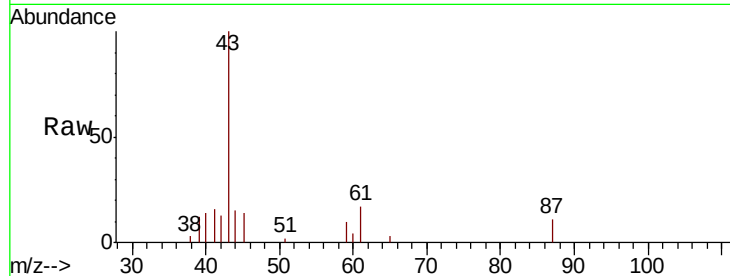
Tot Ion: 43 Resp: 17038

Ion Ratio Lower Upper

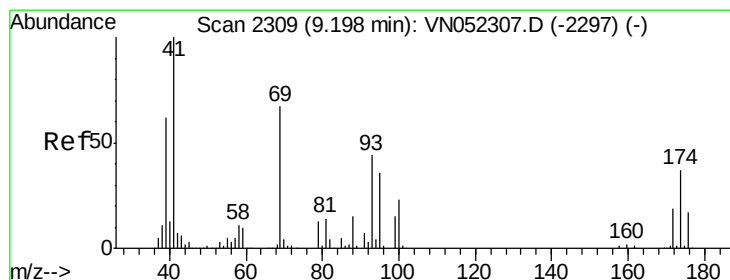
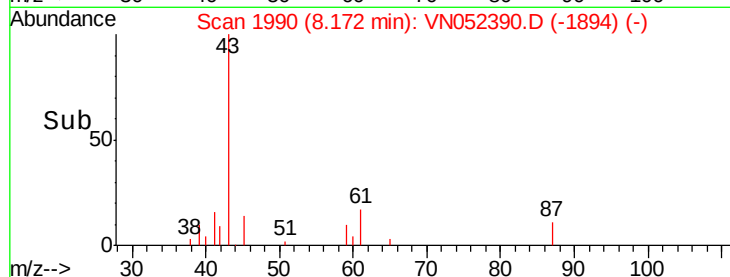
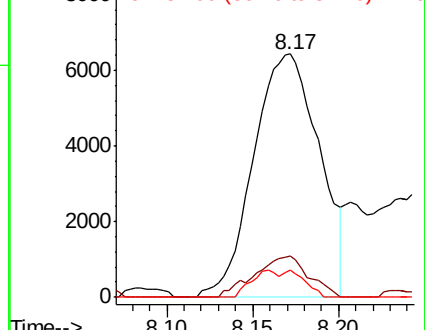
43 100

61 14.0 12.0 18.0

87 4.7 8.3 12.5#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO



#48

Methyl methacrylate

Concen: 1.496 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN052390.D

Acq: 19 Nov 2018 17:33

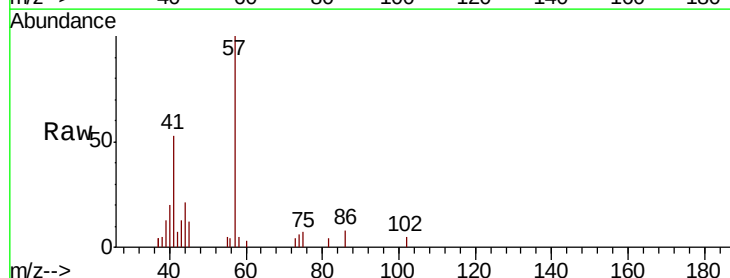
Tgt Ion: 41 Resp: 5197

Ion Ratio Lower Upper

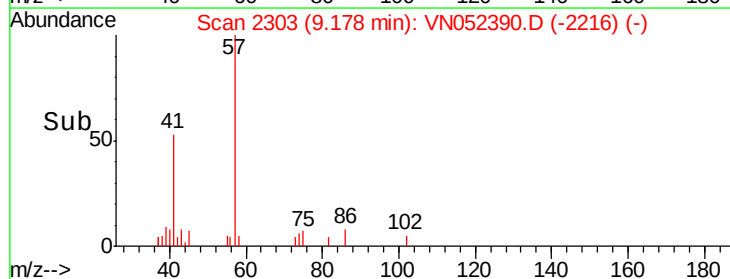
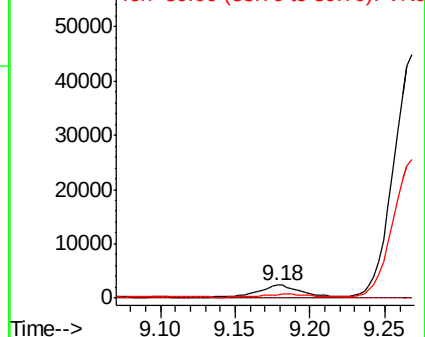
41 100

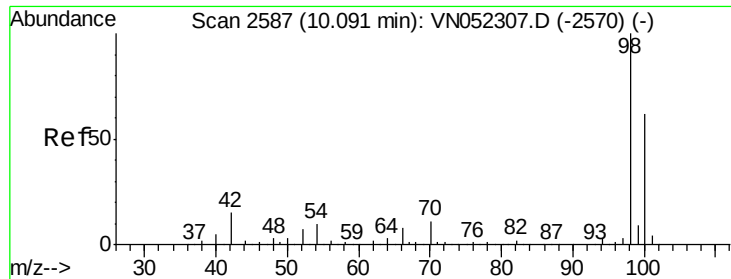
69 0.0 57.1 85.7#

39 0.0 52.5 78.7#



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





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052390.D

Acq: 19 Nov 2018 17:33

Instrument :

MSVOA_N

ClientSampleId :

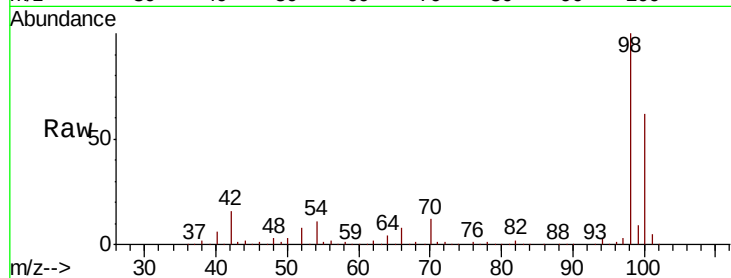
PB114846ZHE#06

Tot Ion: 98 Resp: 624188

Ion Ratio Lower Upper

98 100

100 62.6 49.5 74.3



Abundance Ion 98.00 (97.70 to 98.70): VN052307.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN052390.D (-2494) (-)

10.09

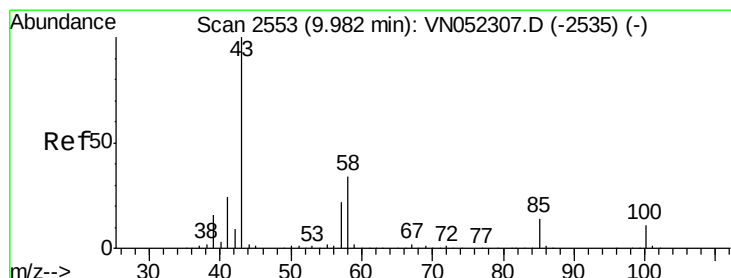
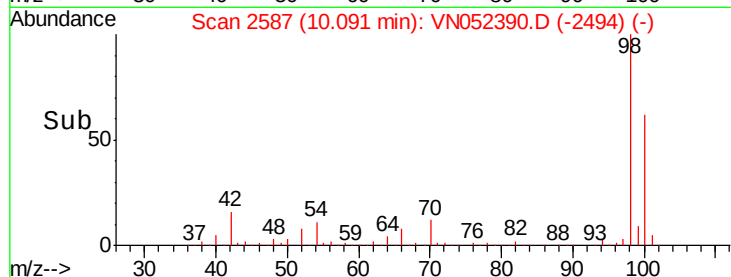
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.482 ug/l

RT: 10.02 min Scan# 2565

Delta R.T. 0.04 min

Lab File: VN052390.D

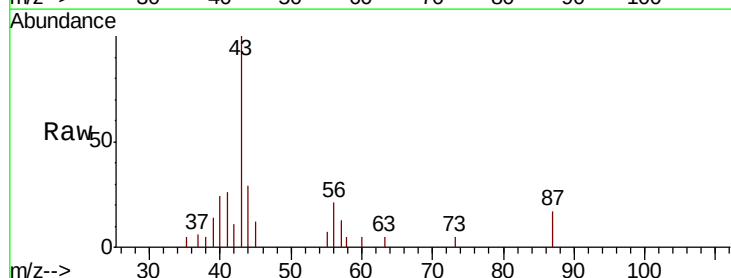
Acq: 19 Nov 2018 17:33

Tgt Ion: 43 Resp: 5106

Ion Ratio Lower Upper

43 100

58 0.0 27.0 40.6#



Abundance Ion 43.00 (42.70 to 43.70): VN052307.D (-2535) (-)

Ion 58.00 (57.70 to 58.70): VN052390.D (-2460) (-)

10.02

4000

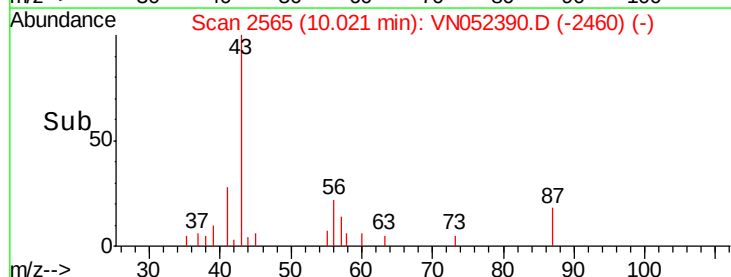
3000

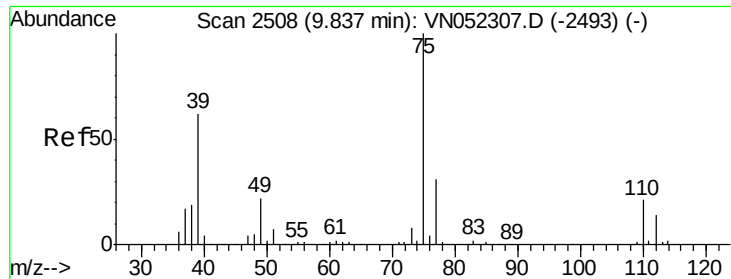
2000

1000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 5.449 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN052390.D

Acq: 19 Nov 2018 17:33

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#06

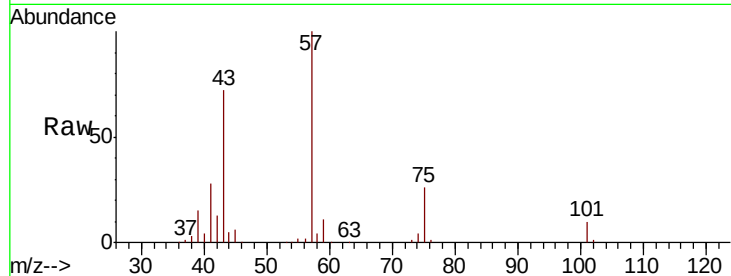
Tot Ion: 75 Resp: 29486

Ion Ratio Lower Upper

75 100

77 0.0 24.6 36.8#

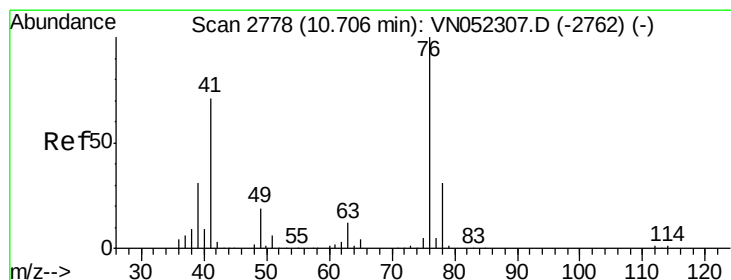
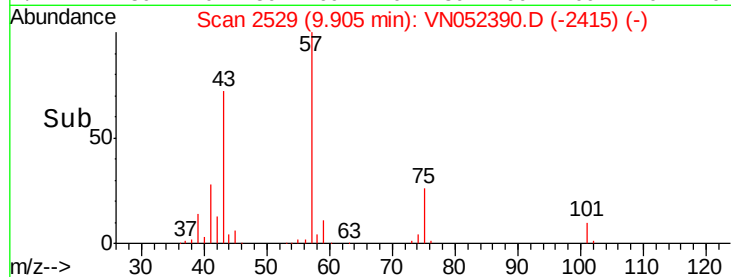
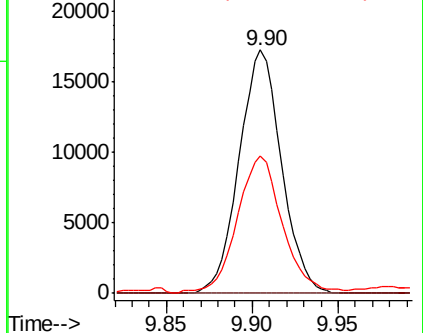
39 55.0 49.9 74.9



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.115 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.05 min

Lab File: VN052390.D

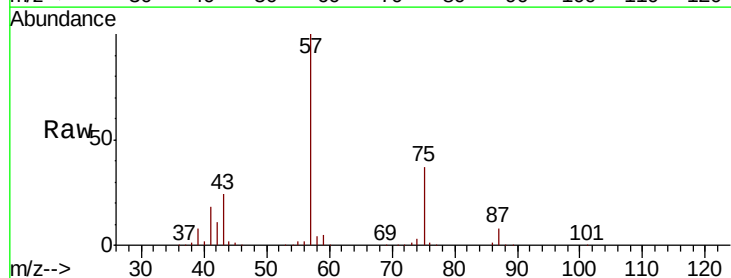
Acq: 19 Nov 2018 17:33

Tgt Ion: 76 Resp: 5982

Ion Ratio Lower Upper

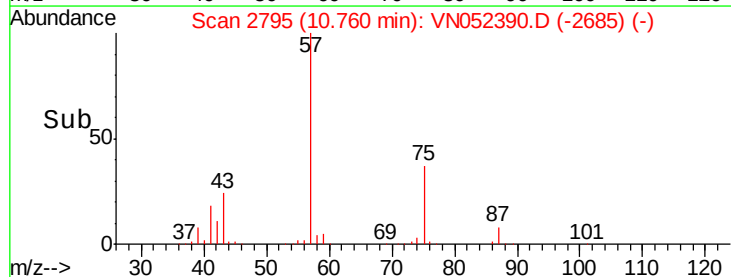
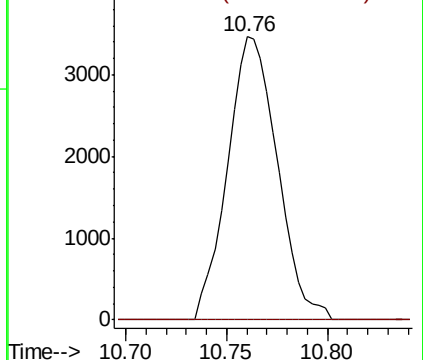
76 100

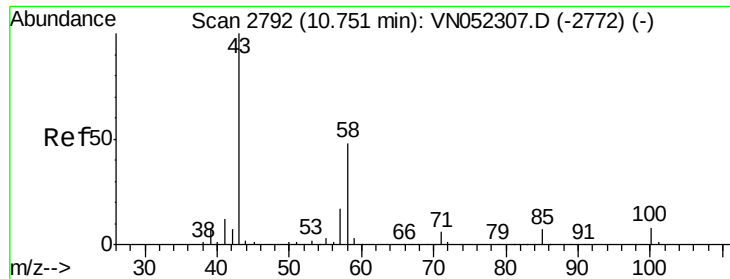
78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

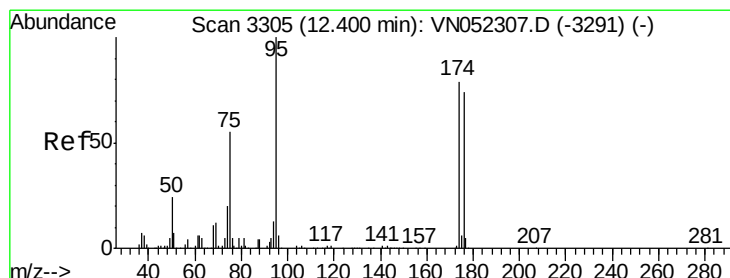
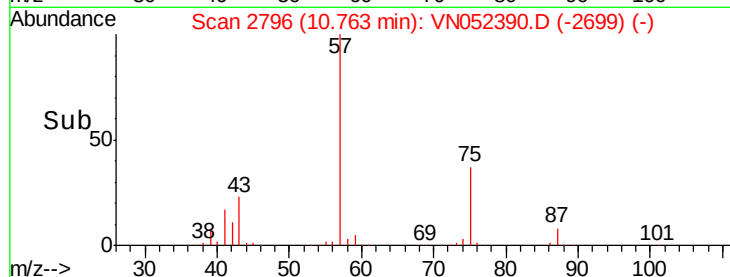
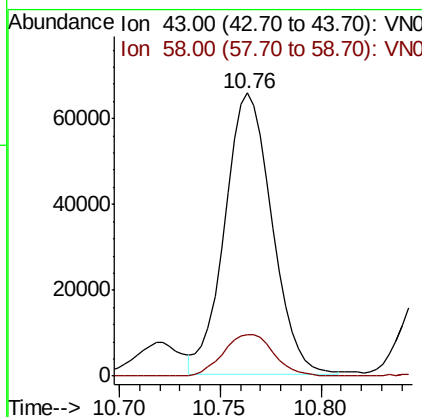
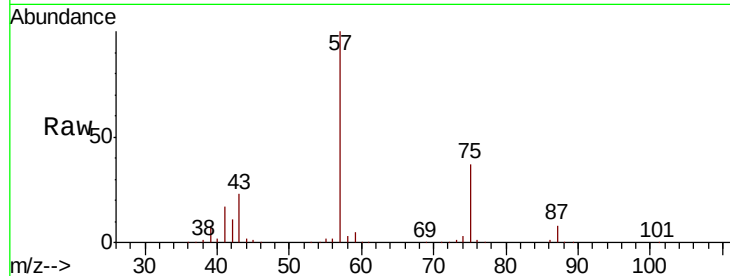




#59
 2-Hexanone
 Concen: 45.561 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN052390.D
 Acq: 19 Nov 2018 17:33

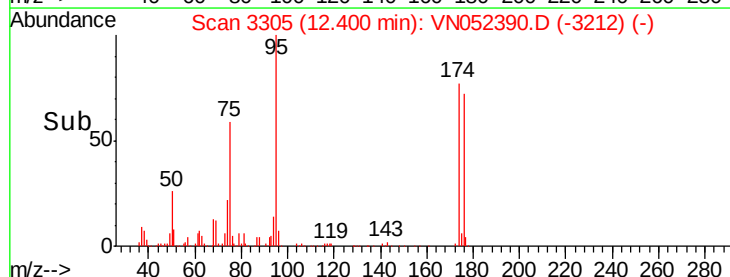
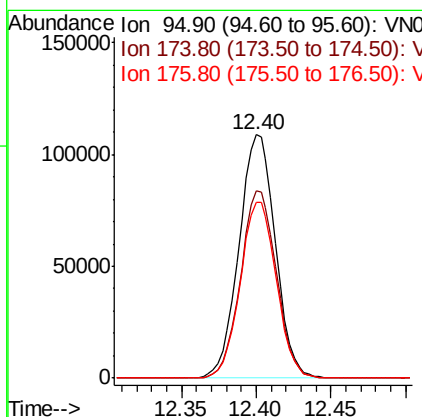
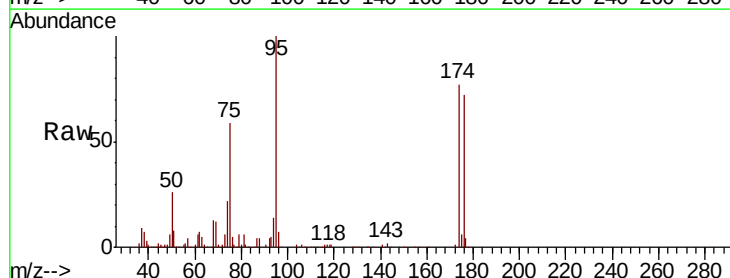
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114846ZHE#06

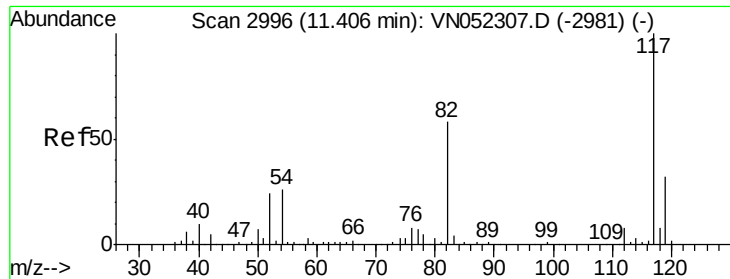
Tot Ion: 43 Resp: 107964
 Ion Ratio Lower Upper
 43 100
 58 16.2 23.5 70.6#



#62
 4-Bromofluorobenzene
 Concen: N.D. ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN052390.D
 Acq: 19 Nov 2018 17:33

Tgt Ion: 95 Resp: 183906
 Ion Ratio Lower Upper
 95 100
 174 75.9 0.0 156.0
 176 72.1 0.0 148.4

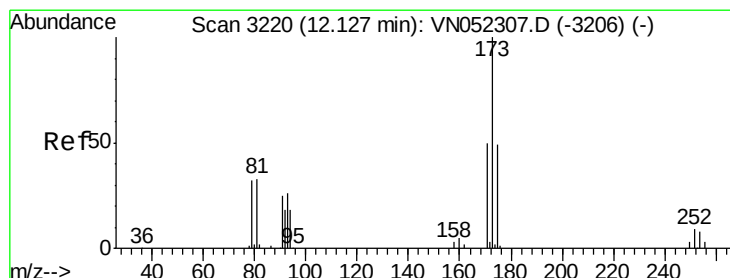
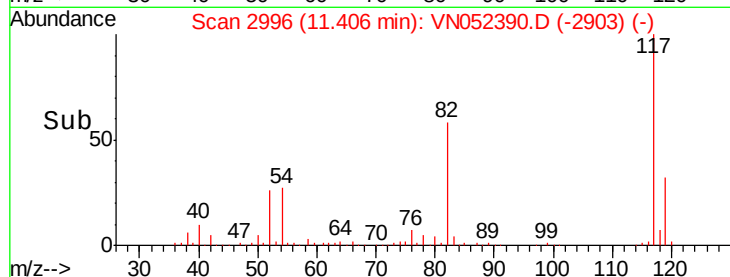
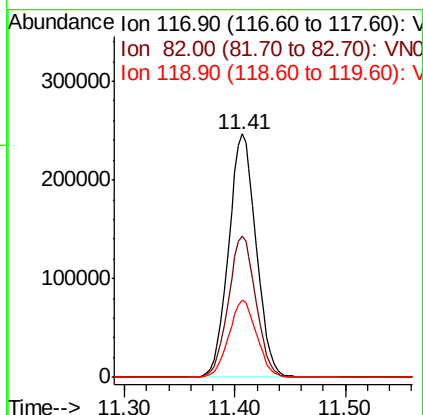
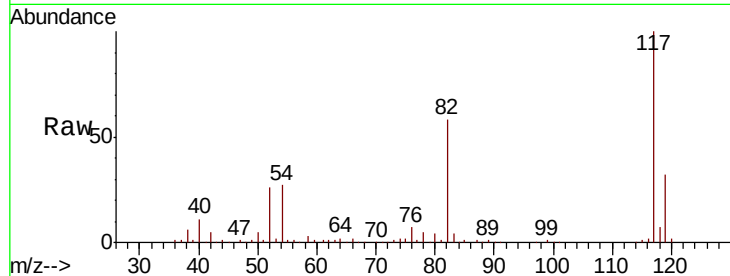




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052390.D
Acq: 19 Nov 2018 17:33

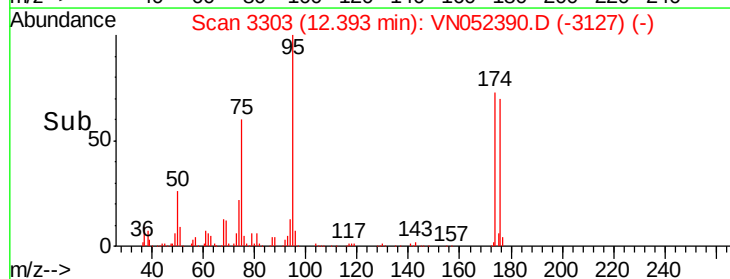
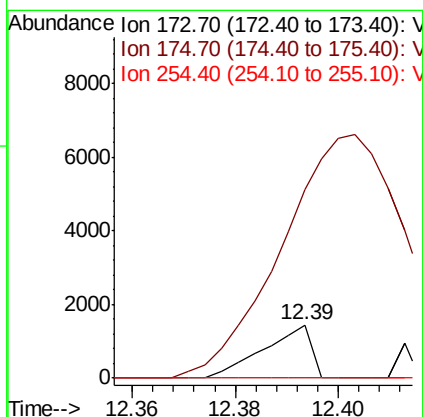
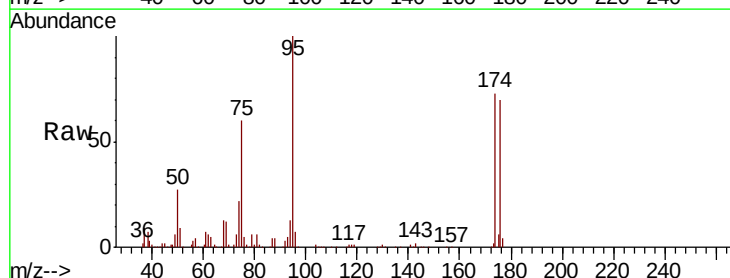
Instrument :
MSVOA_N
ClientSampleId :
PB114846ZHE#06

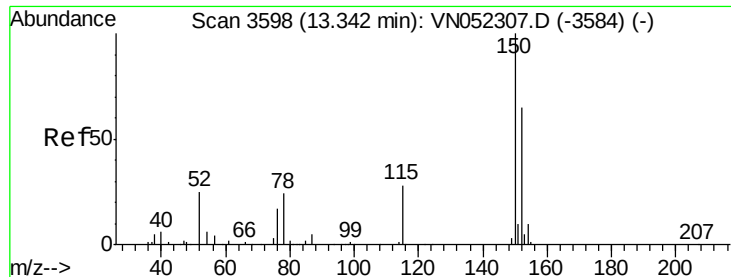
Tot Ion:117 Resp: 425691
Ion Ratio Lower Upper
117 100
82 58.3 46.5 69.7
119 31.7 25.7 38.5



#71
Bromoform
Concen: 0.508 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN052390.D
Acq: 19 Nov 2018 17:33

Tgt Ion:173 Resp: 920
Ion Ratio Lower Upper
173 100
175 1073.0 25.0 75.0#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN052390.D

Acq: 19 Nov 2018 17:33

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#06

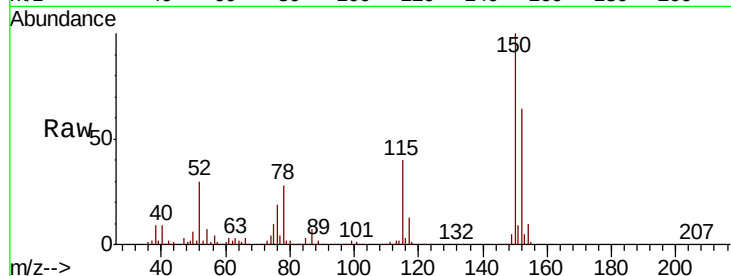
Tot Ion:152 Resp: 146278

Ion Ratio Lower Upper

152 100

115 61.5 30.3 91.0

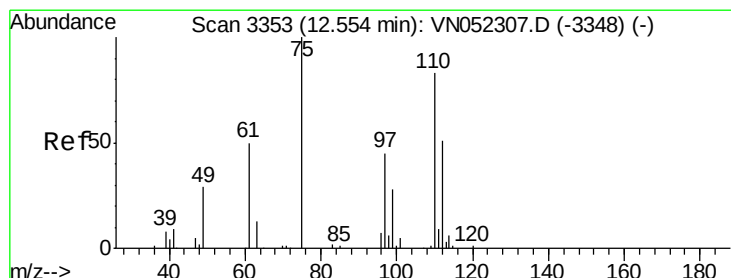
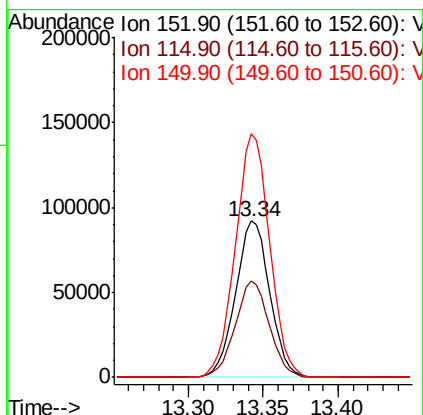
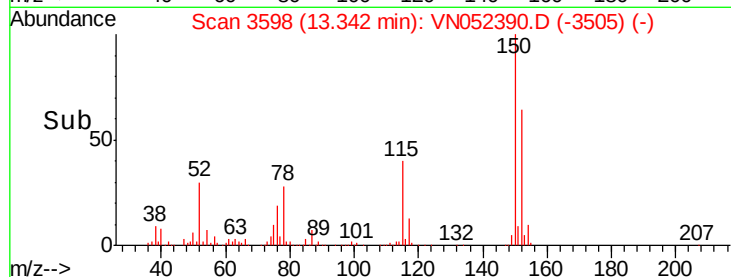
150 156.5 0.0 348.2



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: 42.528 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052390.D

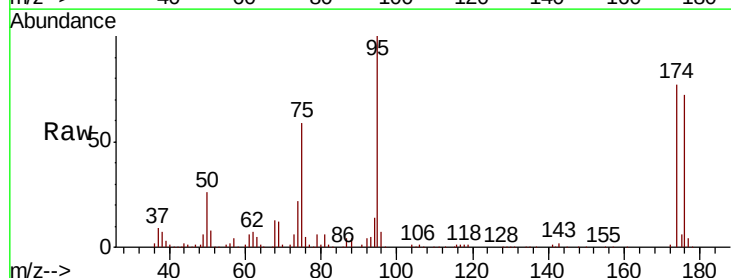
Acq: 19 Nov 2018 17:33

Tgt Ion: 75 Resp: 105558

Ion Ratio Lower Upper

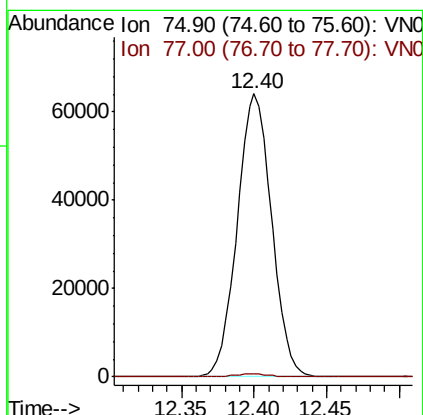
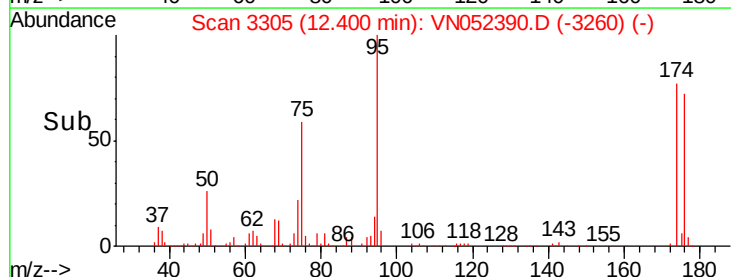
75 100

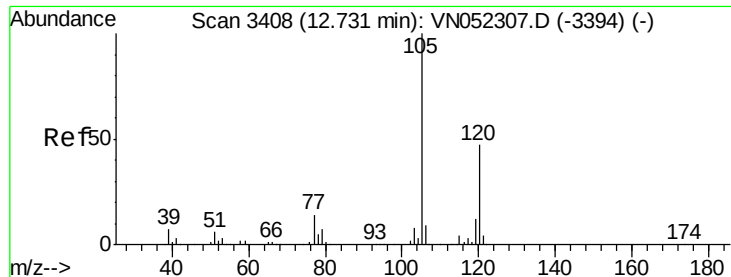
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

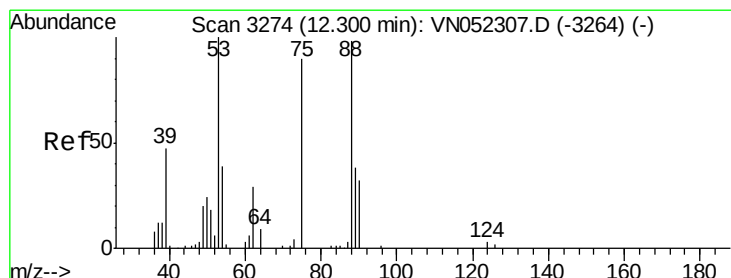
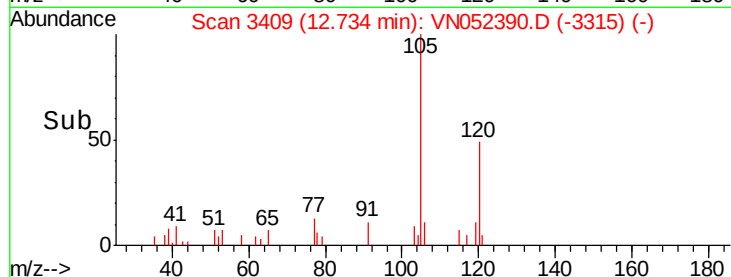
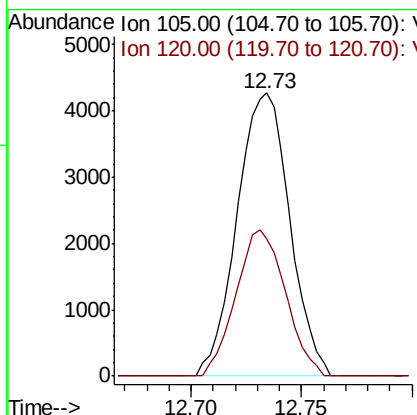
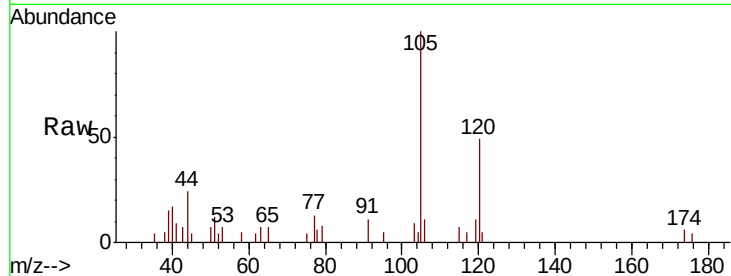




#80
 1,3,5-Trimethylbenzene
 Concen: 0.757 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN052390.D
 Acq: 19 Nov 2018 17:33

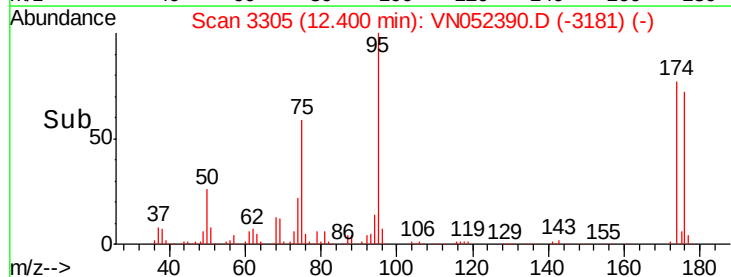
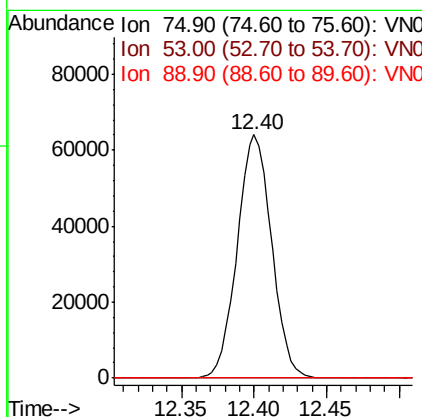
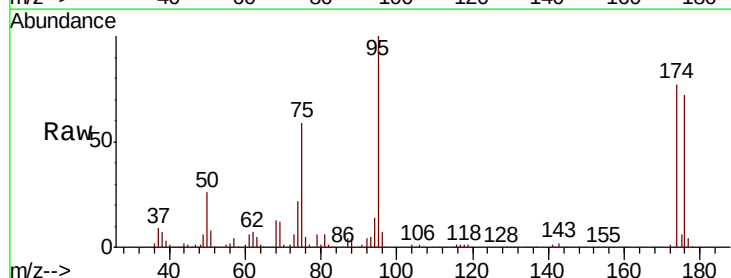
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114846ZHE#06

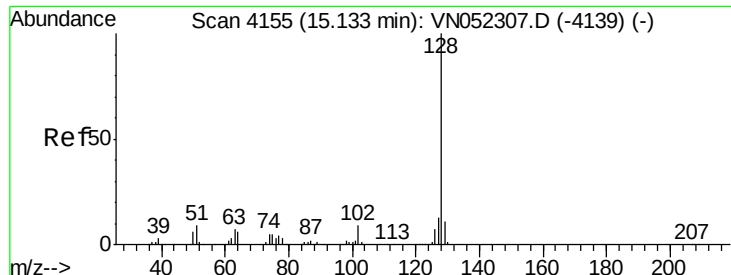
Tot Ion:105 Resp: 7077
 Ion Ratio Lower Upper
 105 100
 120 48.7 23.7 71.1



#81
 trans-1,4-Dichloro-2-butene
 Concen: 137.936 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN052390.D
 Acq: 19 Nov 2018 17:33

Tgt Ion: 75 Resp: 105558
 Ion Ratio Lower Upper
 75 100
 53 0.1 90.2 135.2#
 89 0.0 35.4 53.0#





#95

Naphthalene

Concen: 2.610 ug/l

RT: 15.14 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN052390.D

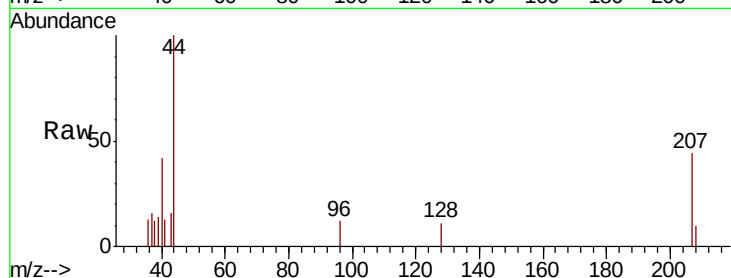
Acq: 19 Nov 2018 17:33

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#06



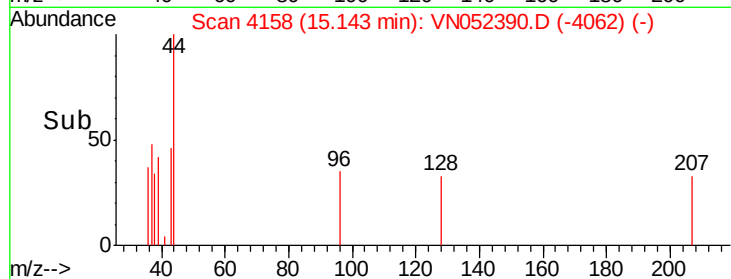
Tot Ion:128 Resp: 32

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.6 13.0#



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

