

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111218\
 Data File : VN052258.D
 Acq On : 12 Nov 2018 13:25
 Operator : MD\SY
 Sample : PB114678ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#02

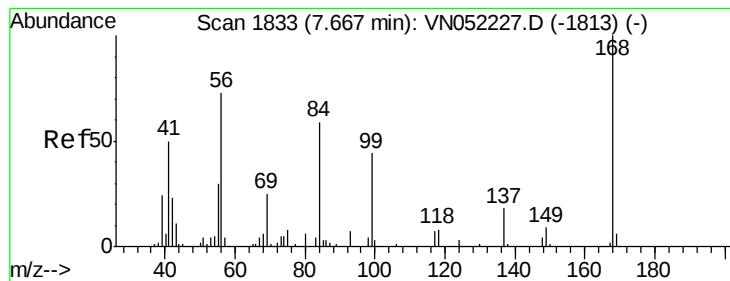
Quant Time: Nov 13 00:13:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 12 00:34:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	365102	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	605979	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	514674	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	175506	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	235067	47.08	ug/l	0.00
Spiked Amount			Recovery	=	94.16%	
35) Dibromofluoromethane	7.59	113	189461	48.27	ug/l	0.00
Spiked Amount			Recovery	=	96.54%	
50) Toluene-d8	10.09	98	757467	49.30	ug/l	0.00
Spiked Amount			Recovery	=	98.60%	
62) 4-Bromofluorobenzene	12.40	95	216941	43.67	ug/l	0.00
Spiked Amount			Recovery	=	87.34%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.63	56	33	34.171	ug/l #	1
16) Acetone	3.82	43	7863	Below Cal		99
18) Methyl Acetate	4.34	43	1078	0.258	ug/l #	91
20) Methylene Chloride	4.56	84	10820	2.377	ug/l #	87
25) 2-Butanone	6.85	43	503	0.236	ug/l #	52
29) Tetrahydrofuran	7.21	42	310	0.224	ug/l #	40
31) Cyclohexane	7.67	56	10191	0.639	ug/l #	21
36) 1,1-Dichloropropene	7.66	75	31893	5.214	ug/l #	51
38) Carbon Tetrachloride	7.66	117	37794	6.818	ug/l #	17
43) Isopropyl Acetate	8.17	43	24186	3.016	ug/l	98
48) Methyl methacrylate	9.18	41	6597	1.561	ug/l #	15
51) 4-Methyl-2-Pentanone	10.02	43	6640	1.499	ug/l #	40
54) cis-1,3-Dichloropropene	9.90	75	36885	5.438	ug/l #	69
57) 1,3-Dichloropropane	10.76	76	7902	1.156	ug/l #	43
59) 2-Hexanone	10.76	43	127545	41.029	ug/l #	53
71) Bromoform	12.40	173	943	0.428	ug/l #	28
74) N-amyl acetate	11.88	43	14388	2.762	ug/l #	56
76) 1,2,3-Trichloropropane	12.40	75	118331	38.108	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	6449	0.565	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	118331	130.079	ug/l #	8

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052258.D

Acq: 12 Nov 2018 13:25

Instrument :

MSVOA_N

ClientSampleId :

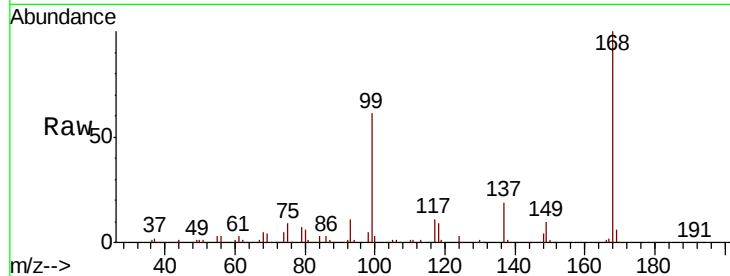
PB114678ZHE#02

Tot Ion:168 Resp: 365102

Ion Ratio Lower Upper

168 100

99 60.5 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): VN052227.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN052227.D (-1813) (-)

7.67

150000

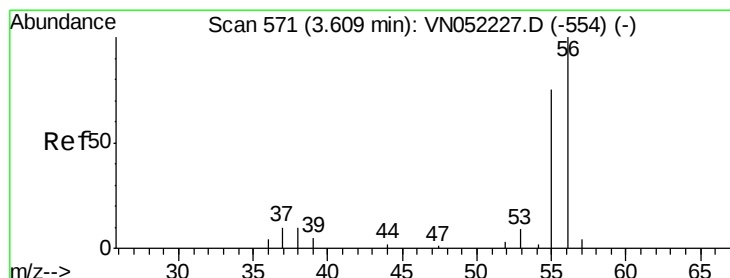
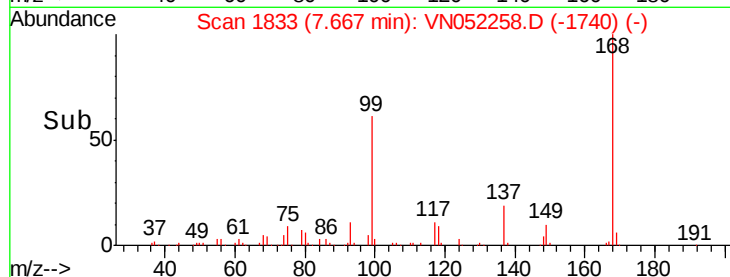
100000

50000

0

7.60 7.70

Time-->



#13

Acrolein

Concen: 34.171 ug/l

RT: 3.63 min Scan# 577

Delta R.T. 0.02 min

Lab File: VN052258.D

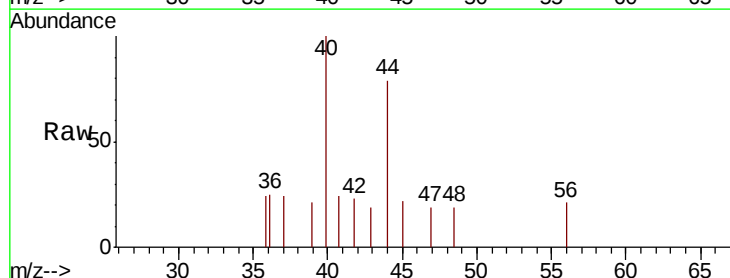
Acq: 12 Nov 2018 13:25

Tgt Ion: 56 Resp: 33

Ion Ratio Lower Upper

56 100

55 193.9 59.9 89.9#



Abundance Ion 56.00 (55.70 to 56.70): VN052227.D (-554) (-)

Ion 55.00 (54.70 to 55.70): VN052227.D (-554) (-)

3.63

200

150

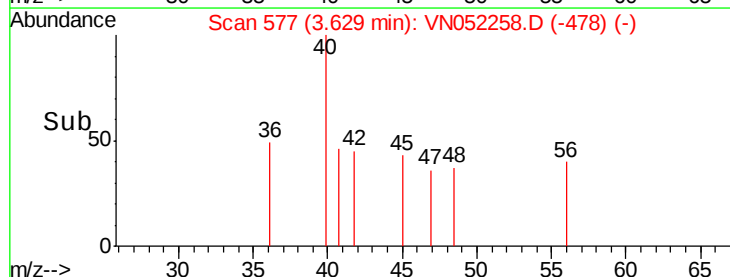
100

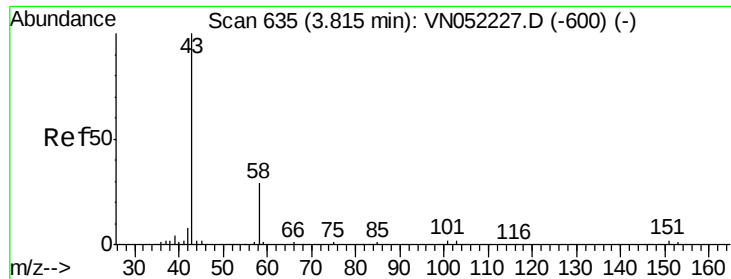
50

0

3.62 3.63 3.63 3.63

Time-->

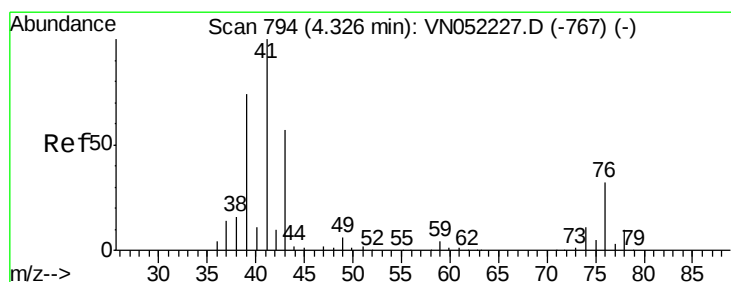
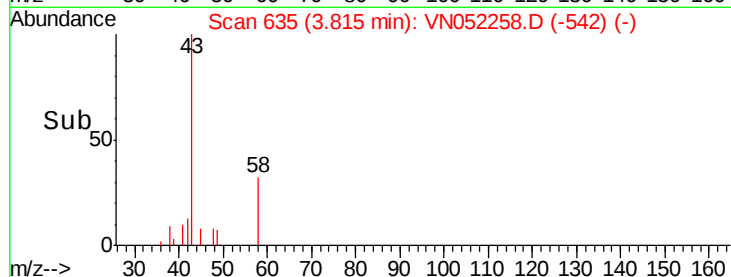
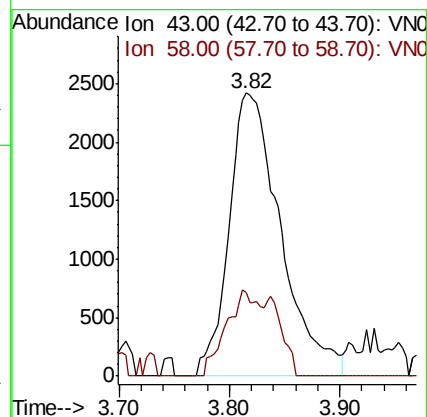
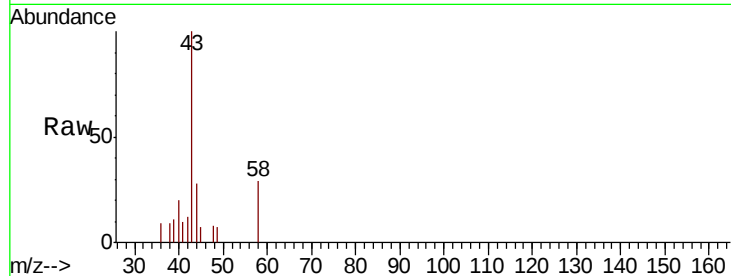




#16
Acetone
Concen: Below Cal
RT: 3.82 min Scan# 635
Delta R.T. 0.00 min
Lab File: VN052258.D
Acq: 12 Nov 2018 13:25

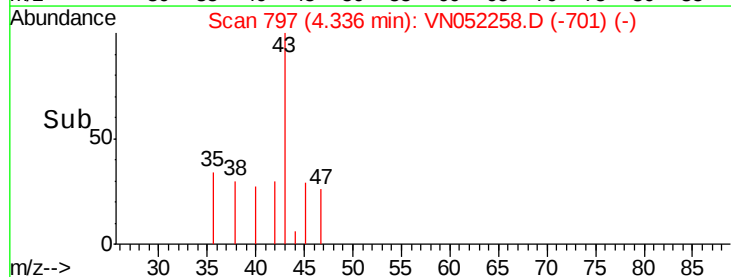
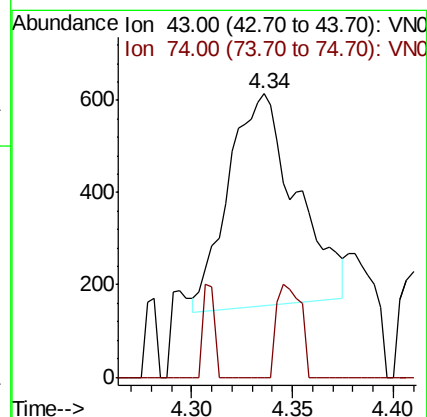
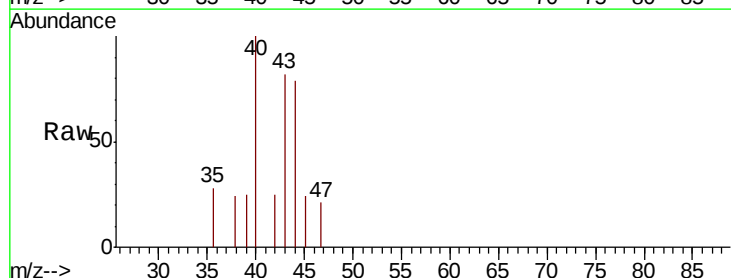
Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#02

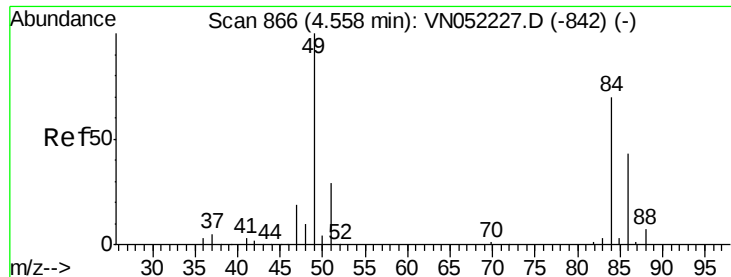
Tot Ion: 43 Resp: 7863
Ion Ratio Lower Upper
43 100
58 29.4 23.0 34.6



#18
Methyl Acetate
Concen: 0.258 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN052258.D
Acq: 12 Nov 2018 13:25

Tgt Ion: 43 Resp: 1078
Ion Ratio Lower Upper
43 100
74 15.9 16.2 24.2#

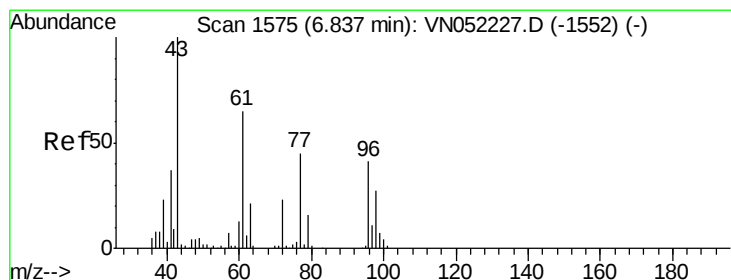
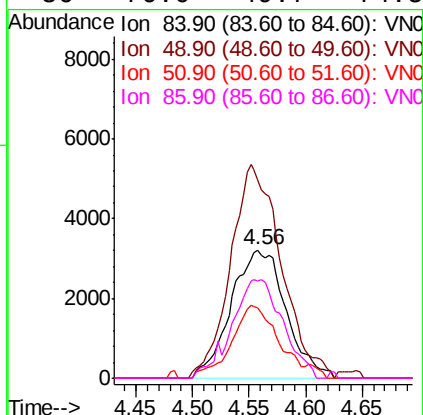
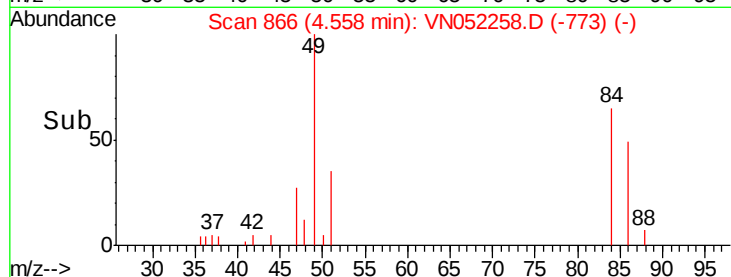
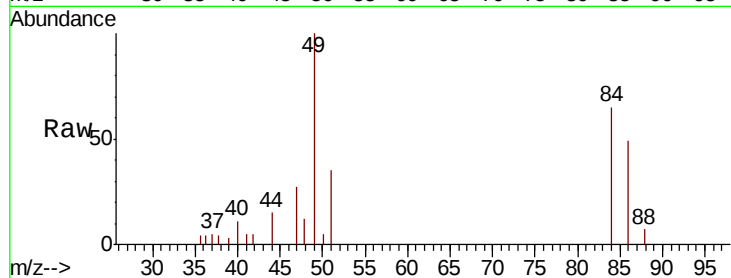




#20
Methvlene Chloride
Concen: 2.377 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052258.D
Acq: 12 Nov 2018 13:25

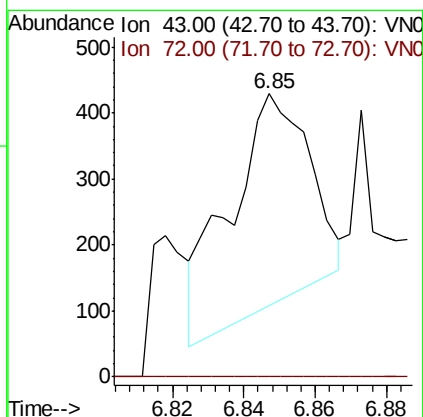
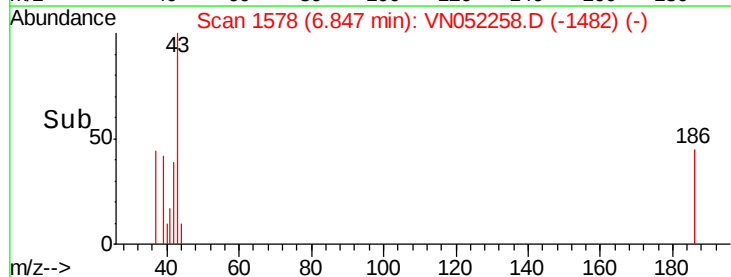
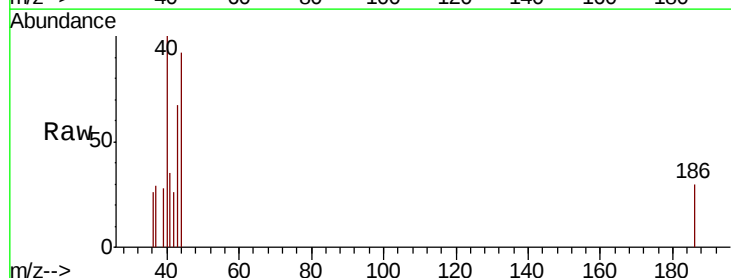
Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#02

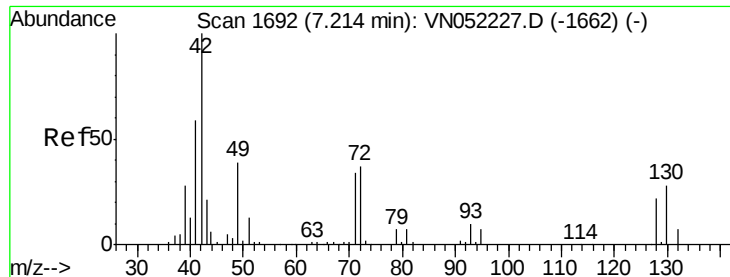
Tot Ion: 84 Resp: 10820
Ion Ratio Lower Upper
84 100
49 154.9 114.8 172.2
51 54.5 33.1 49.7#
86 76.0 49.7 74.5#



#25
2-Butanone
Concen: 0.236 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN052258.D
Acq: 12 Nov 2018 13:25

Tgt Ion: 43 Resp: 503
Ion Ratio Lower Upper
43 100
72 0.0 18.6 27.8#

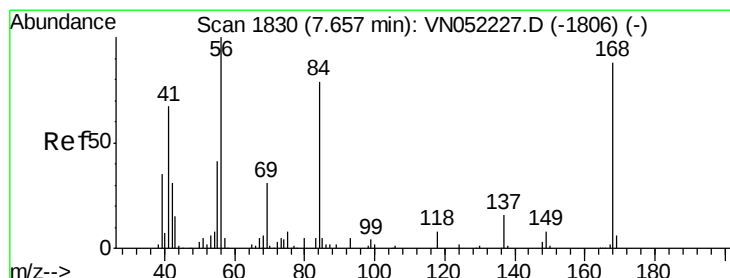
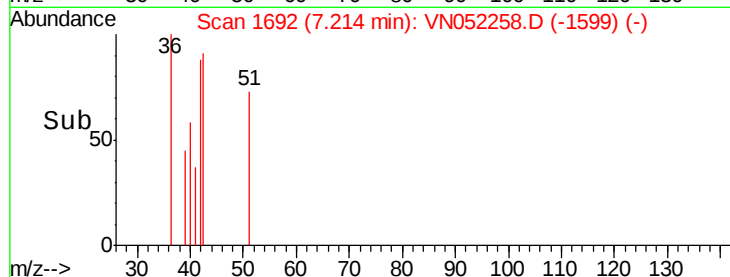
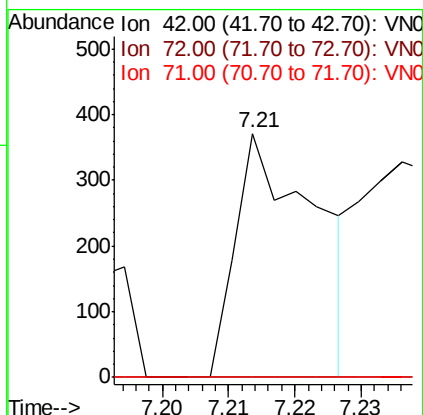
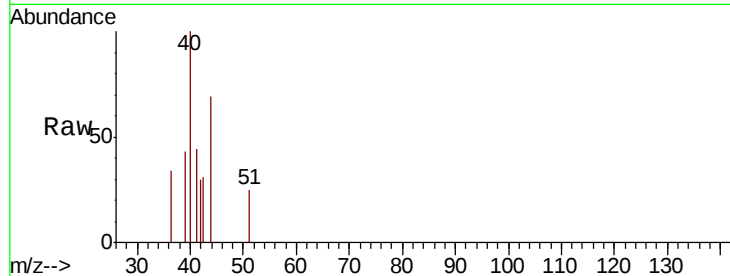




#29
Tetrahydrofuran
Concen: 0.224 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN052258.D
Acq: 12 Nov 2018 13:25

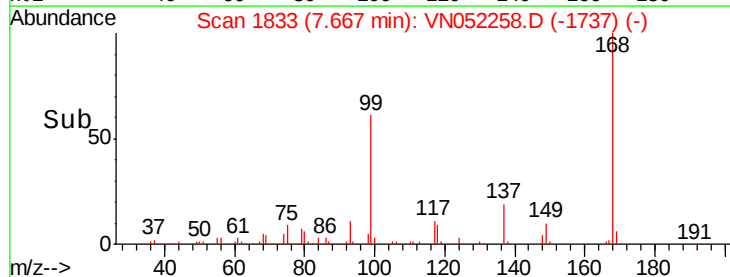
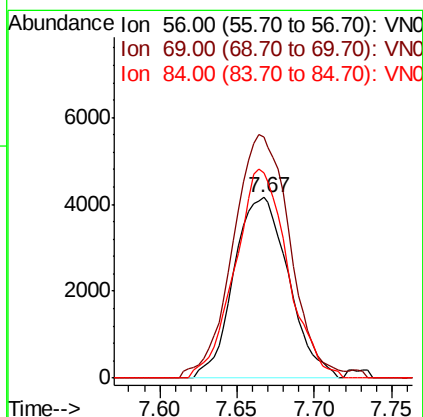
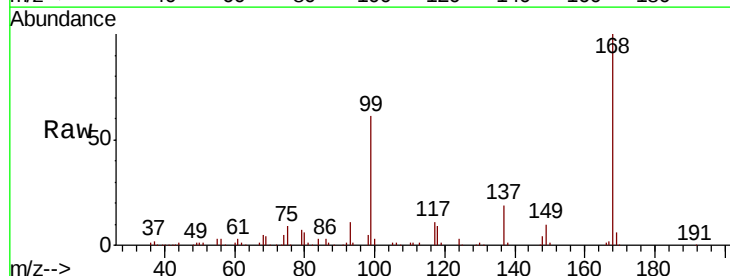
Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#02

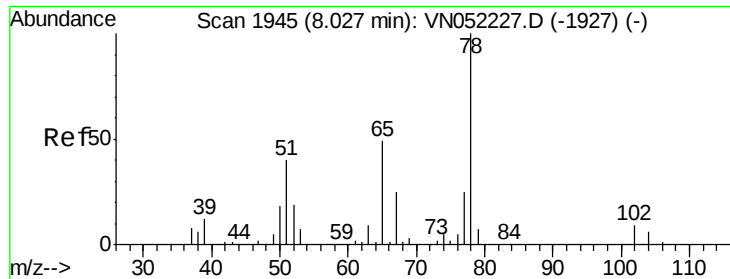
Tot Ion: 42 Resp: 310
Ion Ratio Lower Upper
42 100
72 0.0 28.6 43.0#
71 0.0 27.1 40.7#



#31
Cyclohexane
Concen: 0.639 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN052258.D
Acq: 12 Nov 2018 13:25

Tgt Ion: 56 Resp: 10191
Ion Ratio Lower Upper
56 100
69 129.0 24.8 37.2#
84 113.5 63.1 94.7#

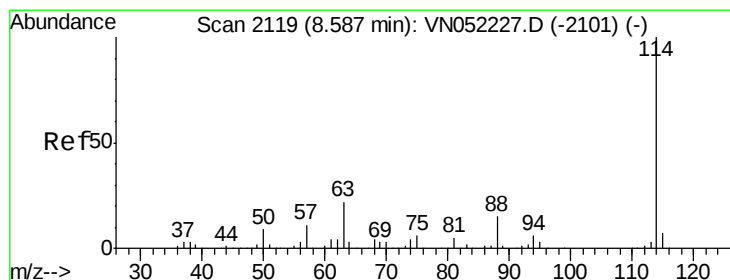
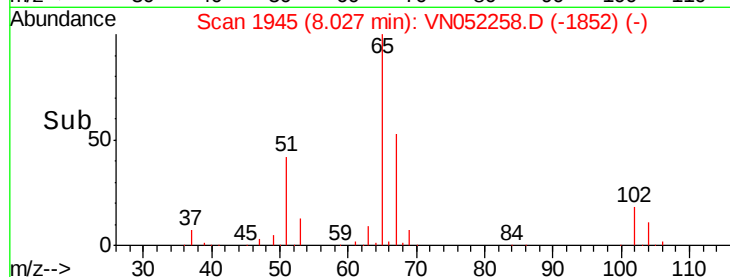
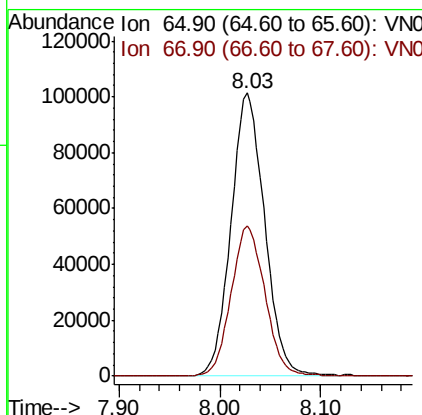
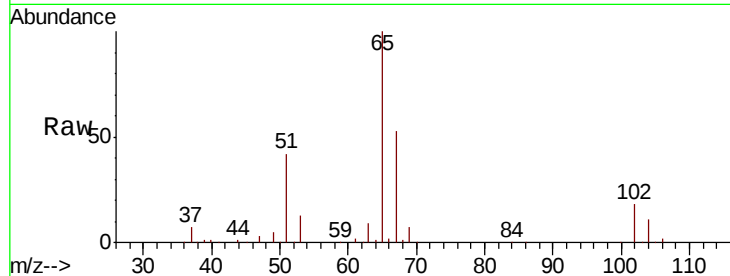




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052258.D
 Acq: 12 Nov 2018 13:25

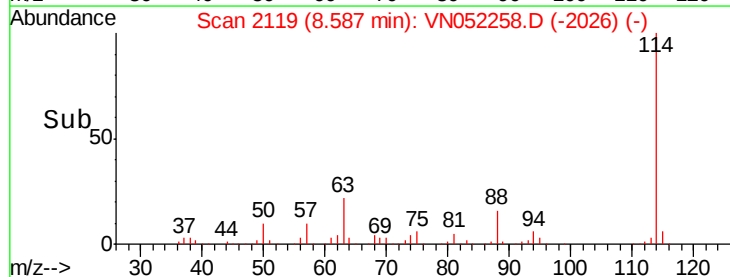
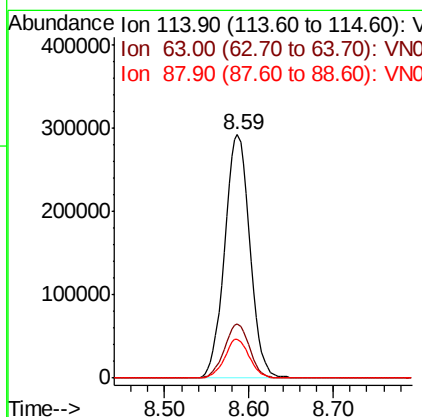
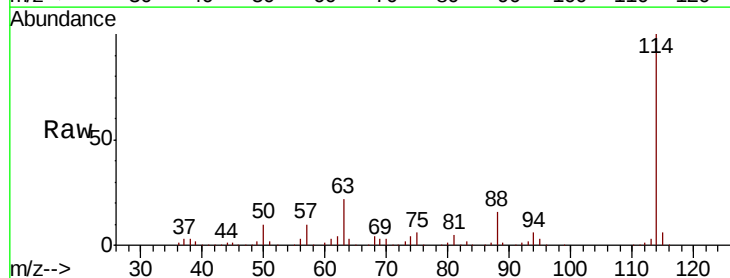
Instrument :
 MSVOA_N
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 PB114678ZHE#02

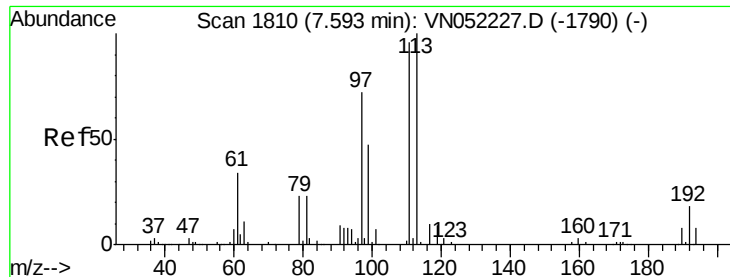
Tot Ion: 65 Resp: 235067
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052258.D
 Acq: 12 Nov 2018 13:25

Tgt Ion: 114 Resp: 605979
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 43.4
 88 15.8 0.0 30.2





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN052258.D

Acq: 12 Nov 2018 13:25

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#02

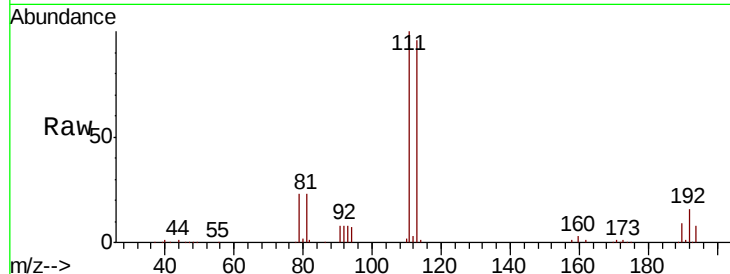
Tot Ion:113 Resp: 189461

Ion Ratio Lower Upper

113 100

111 103.9 80.2 120.4

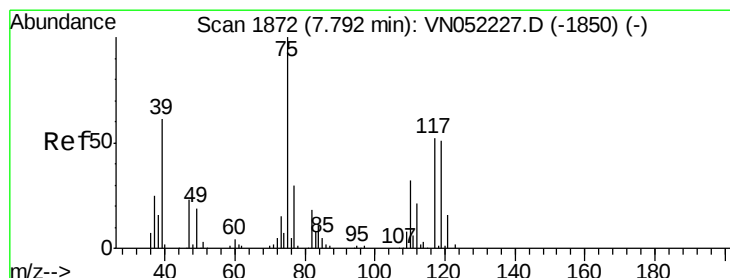
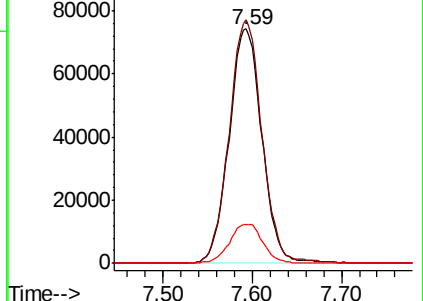
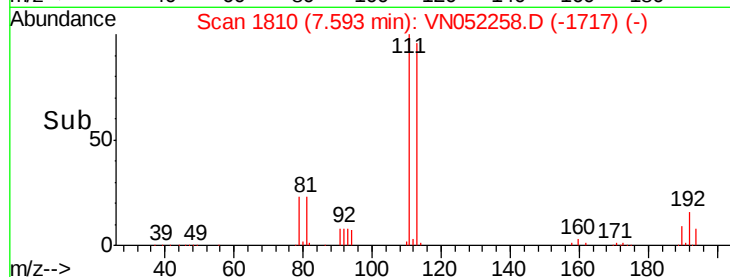
192 17.1 14.1 21.1



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: 5.214 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN052258.D

Acq: 12 Nov 2018 13:25

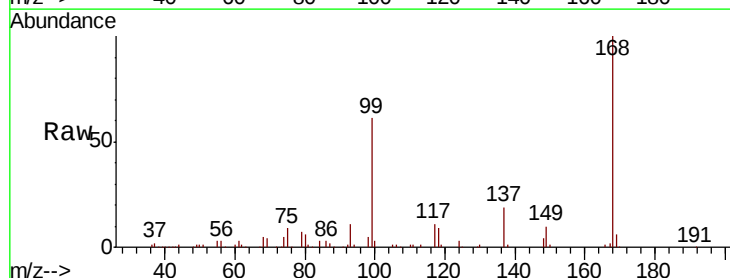
Tgt Ion: 75 Resp: 31893

Ion Ratio Lower Upper

75 100

110 8.6 16.4 49.4#

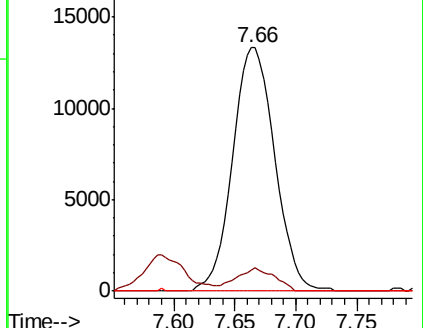
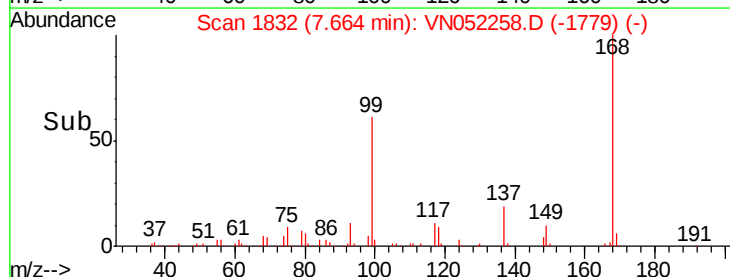
77 0.0 23.9 35.9#

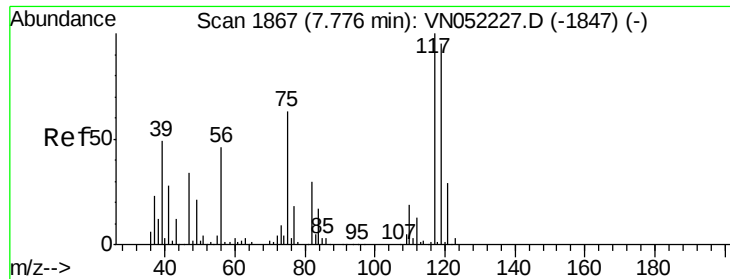


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.818 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN052258.D

Acq: 12 Nov 2018 13:25

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#02

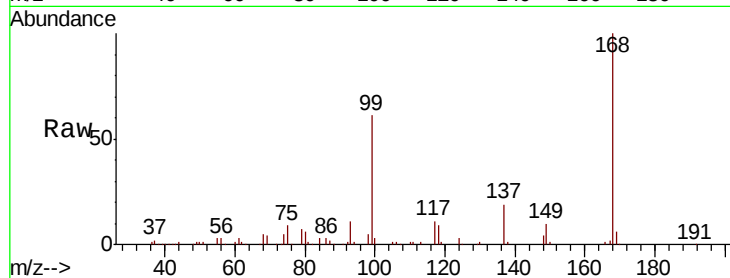
Tot Ion:117 Resp: 37794

Ion Ratio Lower Upper

117 100

119 5.6 75.8 113.8#

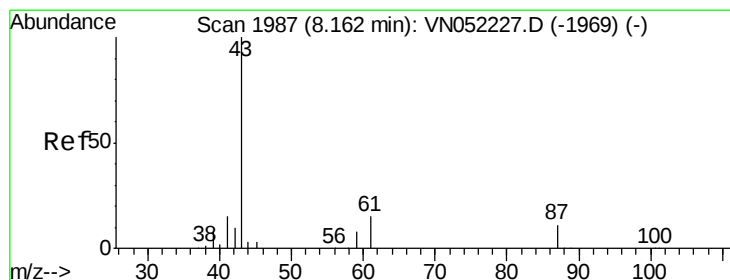
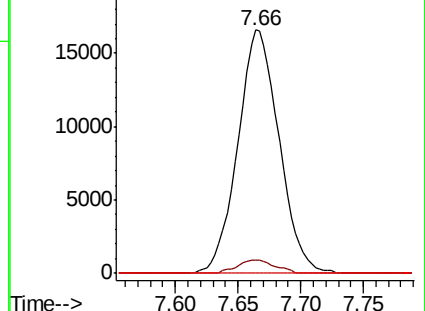
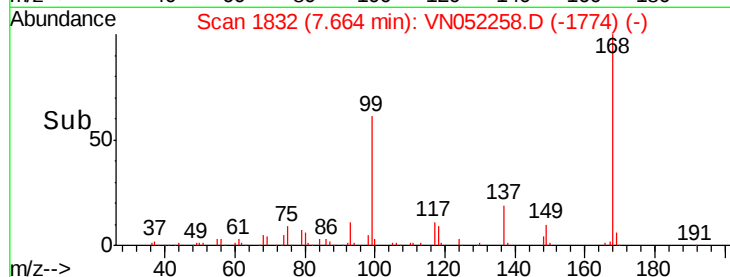
121 0.0 23.4 35.2#



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: 3.016 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052258.D

Acq: 12 Nov 2018 13:25

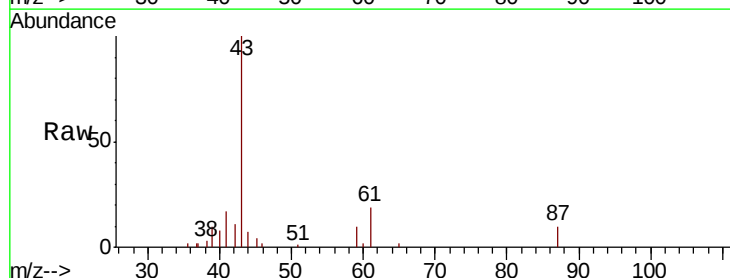
Tgt Ion: 43 Resp: 24186

Ion Ratio Lower Upper

43 100

61 18.8 14.2 21.4

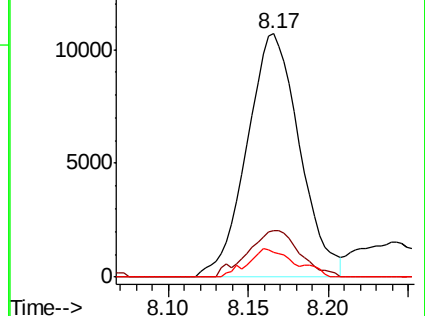
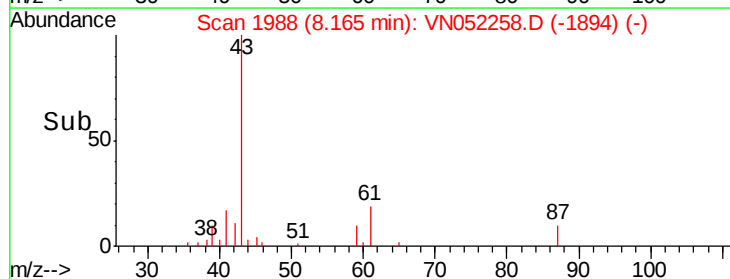
87 10.3 8.4 12.6

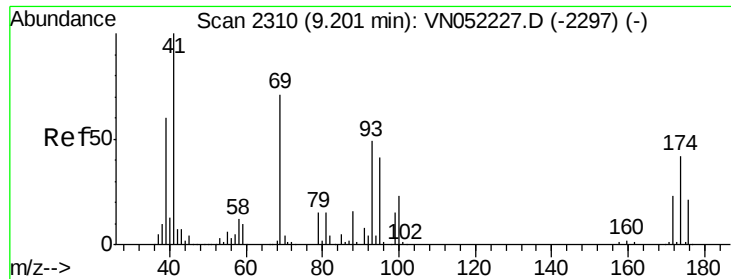


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

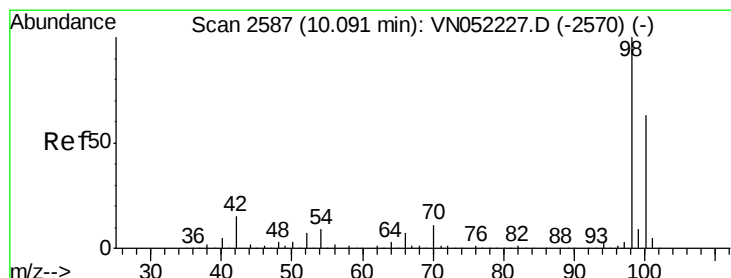
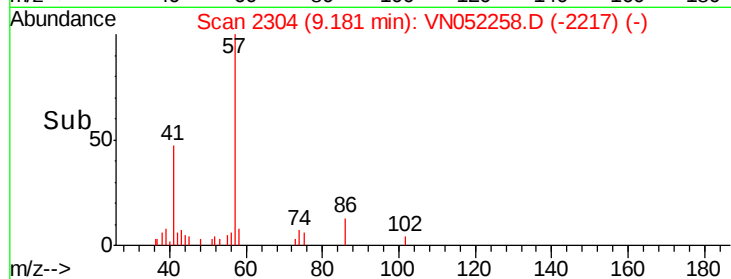
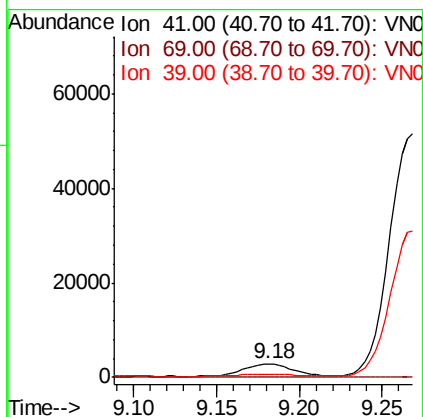
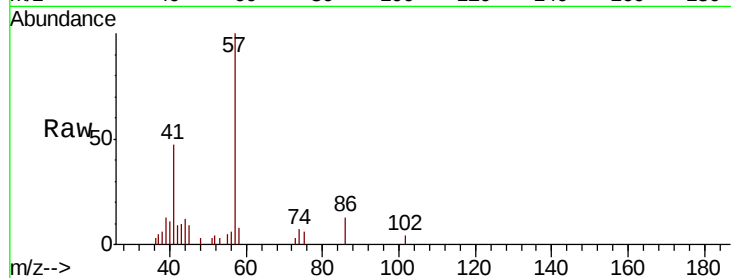




#48
Methvl methacrylate
Concen: 1.561 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN052258.D
Acq: 12 Nov 2018 13:25

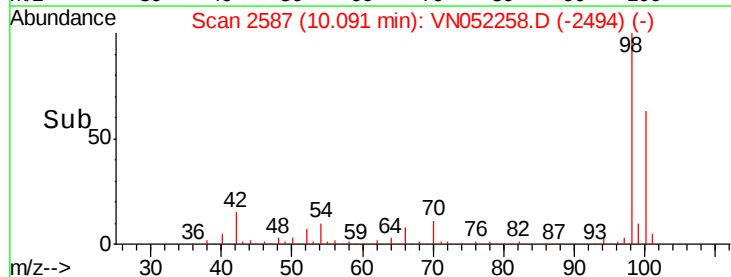
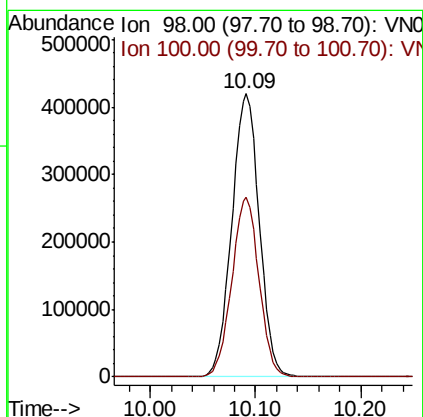
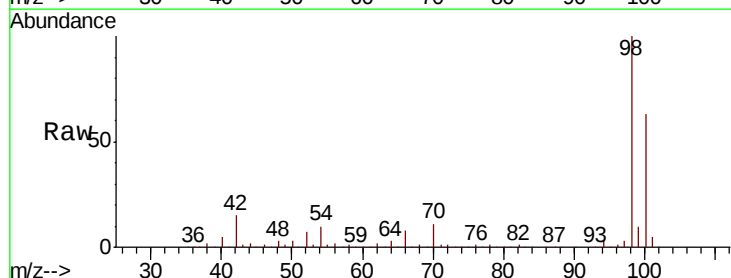
Instrument :
MSVOA_N
ClientSampleId :
PB114678ZHE#02

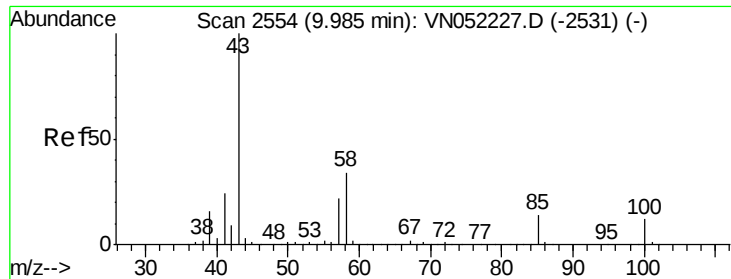
Tot Ion: 41 Resp: 6597
Ion Ratio Lower Upper
41 100
69 0.0 58.8 88.2#
39 0.0 50.7 76.1#



#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052258.D
Acq: 12 Nov 2018 13:25

Tgt Ion: 98 Resp: 757467
Ion Ratio Lower Upper
98 100
100 62.5 50.2 75.2





#51

4-Methyl-2-Pentanone

Concen: 1.499 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052258.D

Acq: 12 Nov 2018 13:25

Instrument :

MSVOA_N

ClientSampleId :

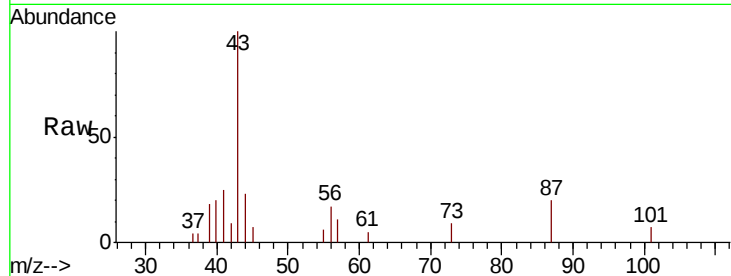
PB114678ZHE#02

Tot Ion: 43 Resp: 6640

Ion Ratio Lower Upper

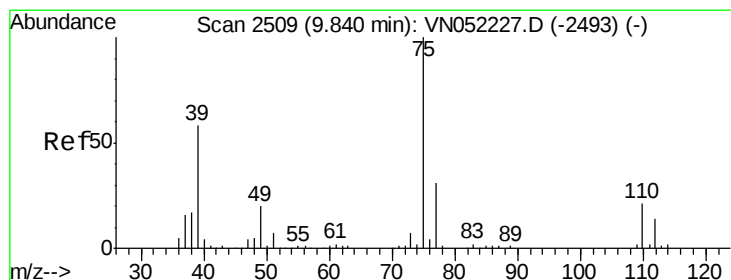
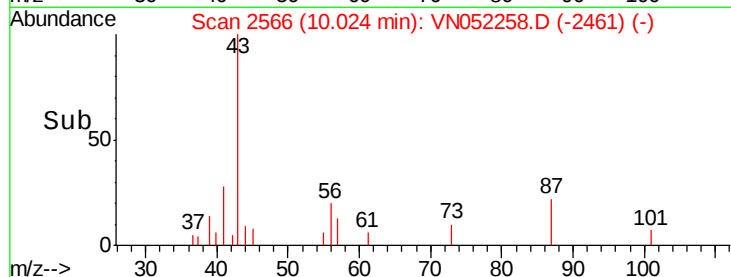
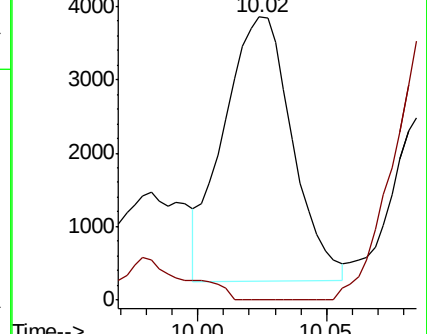
43 100

58 0.0 27.4 41.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.438 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052258.D

Acq: 12 Nov 2018 13:25

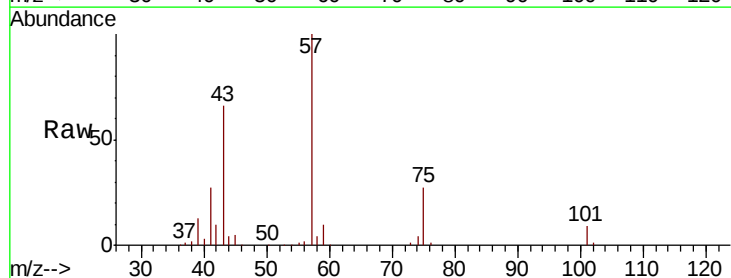
Tgt Ion: 75 Resp: 36885

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

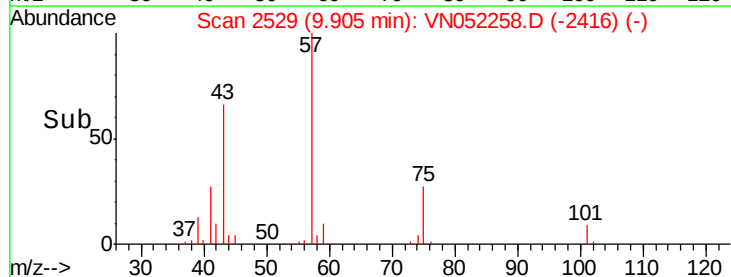
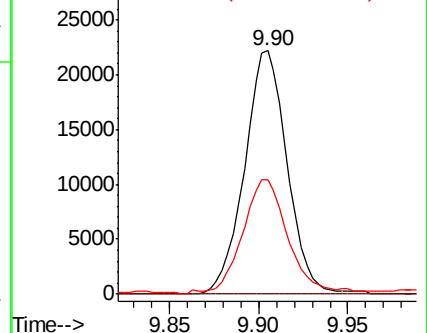
39 45.5 46.6 70.0#

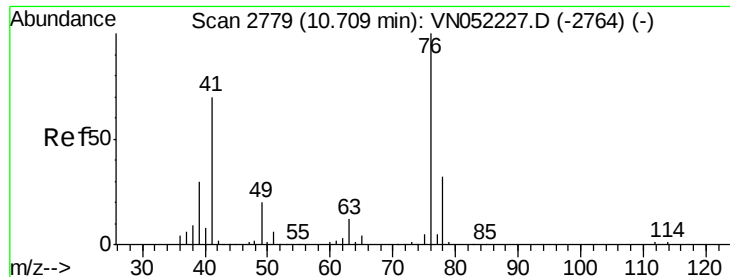


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.156 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN052258.D

Acq: 12 Nov 2018 13:25

Instrument :

MSVOA_N

ClientSampleId :

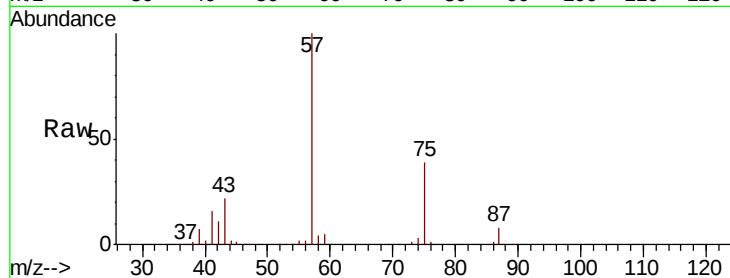
PB114678ZHE#02

Tot Ion: 76 Resp: 7902

Ion Ratio Lower Upper

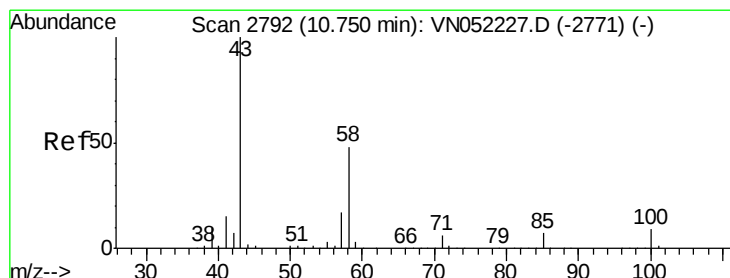
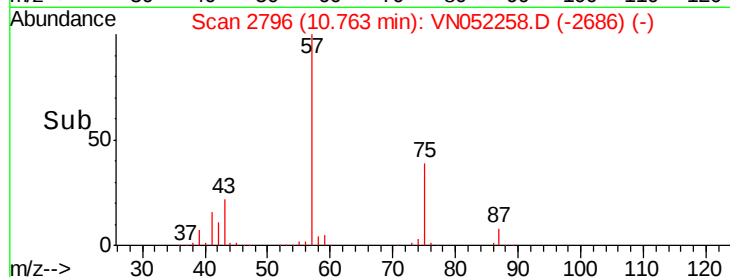
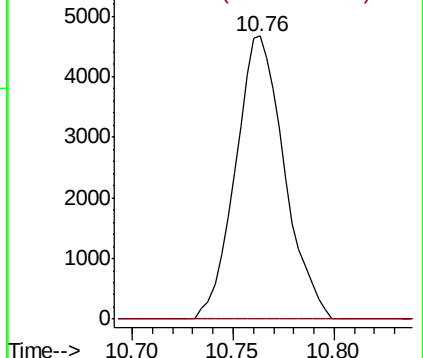
76 100

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: 41.029 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN052258.D

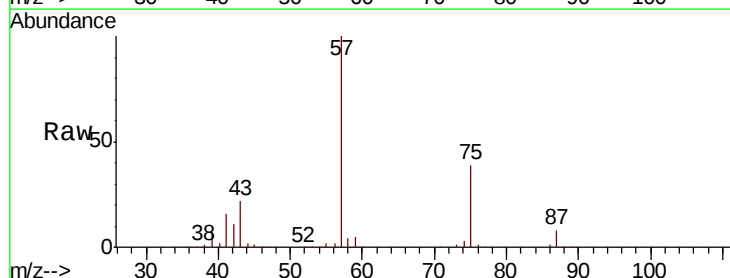
Acq: 12 Nov 2018 13:25

Tgt Ion: 43 Resp: 127545

Ion Ratio Lower Upper

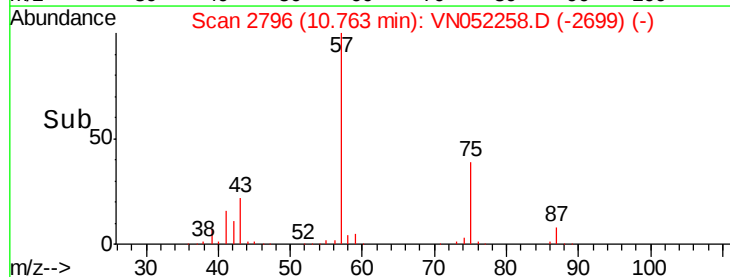
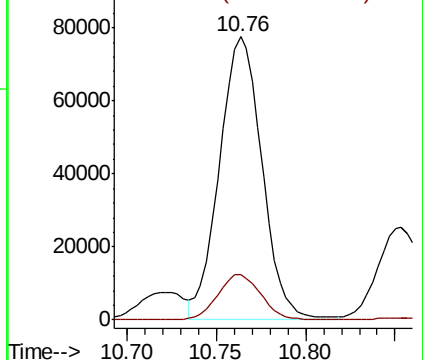
43 100

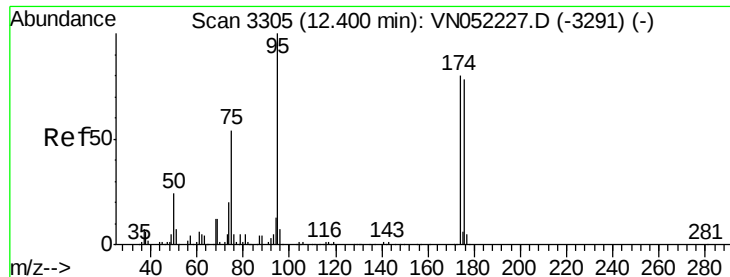
58 16.7 24.1 72.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052258.D

Acq: 12 Nov 2018 13:25

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#02

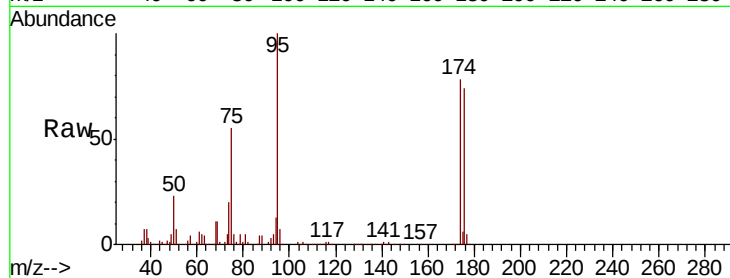
Tot Ion: 95 Resp: 216941

Ion Ratio Lower Upper

95 100

174 77.6 0.0 159.4

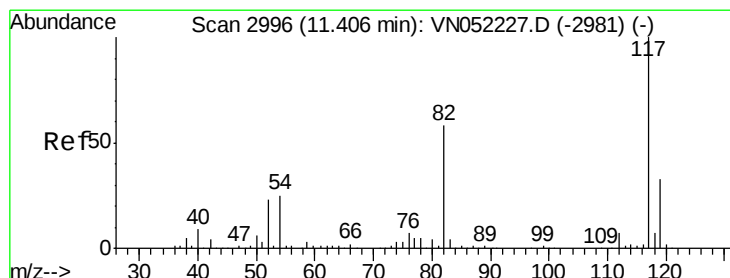
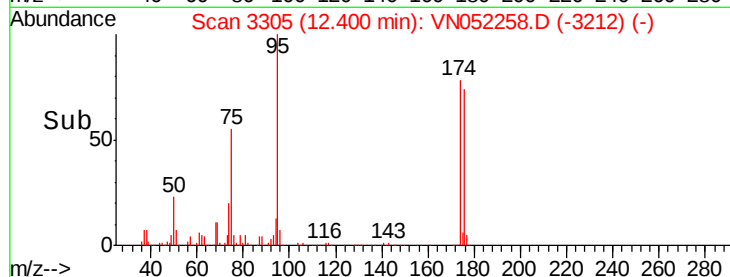
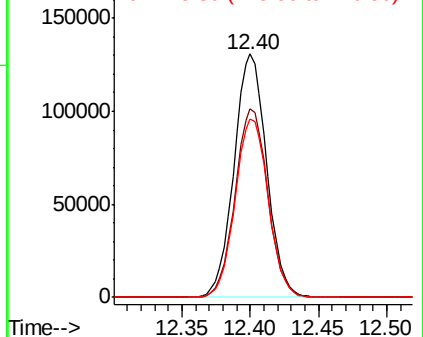
176 74.4 0.0 157.8



Abundance Ion 94.90 (94.60 to 95.60): VN052227.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN052227.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN052227.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN052258.D

Acq: 12 Nov 2018 13:25

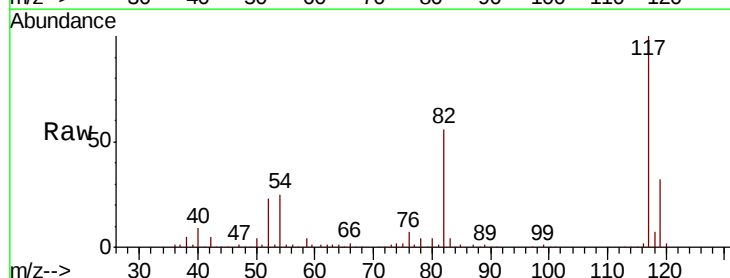
Tgt Ion: 117 Resp: 514674

Ion Ratio Lower Upper

117 100

82 56.0 46.2 69.2

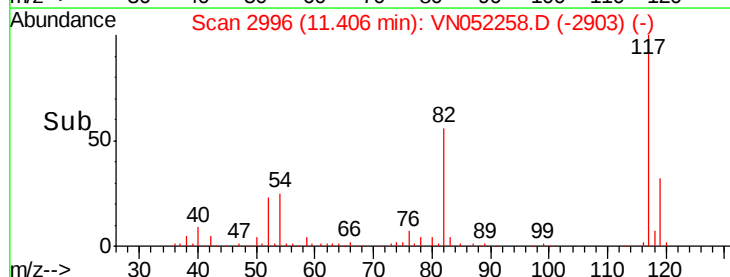
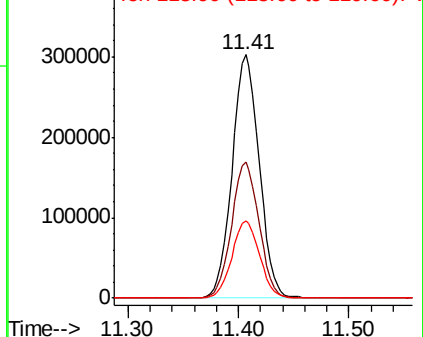
119 31.7 26.2 39.4

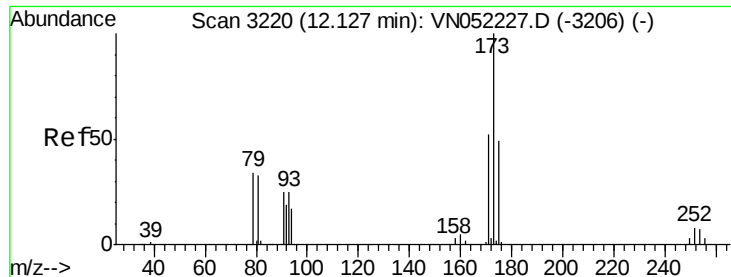


Abundance Ion 116.90 (116.60 to 117.60): VN052227.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN052227.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN052227.D (-2981) (-)





#71

Bromoform

Concen: 0.428 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN052258.D

Acq: 12 Nov 2018 13:25

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#02

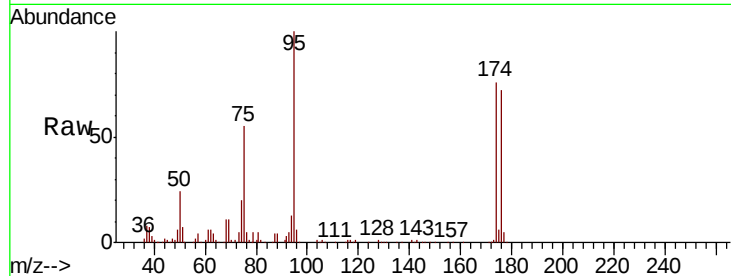
Tot Ion:173 Resp: 943

Ion Ratio Lower Upper

173 100

175 0.0 24.5 73.5#

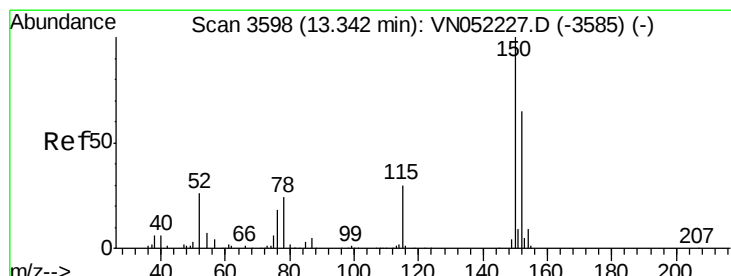
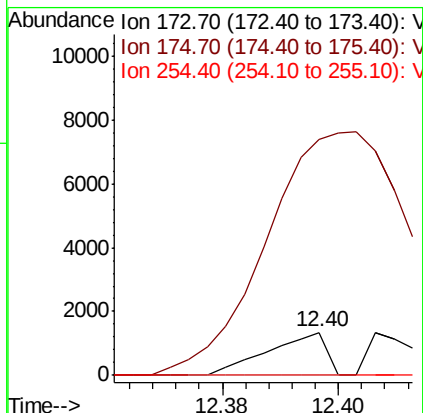
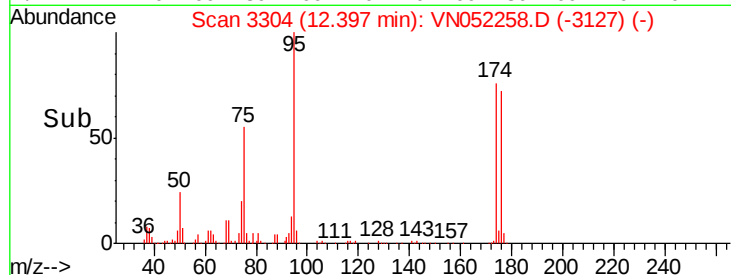
254 0.0 0.0 0.0



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: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052258.D

Acq: 12 Nov 2018 13:25

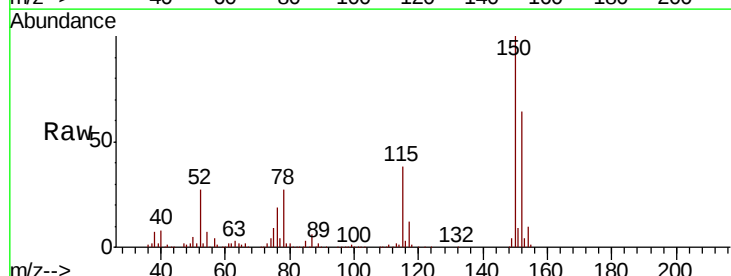
Tgt Ion:152 Resp: 175506

Ion Ratio Lower Upper

152 100

115 59.6 29.8 89.5

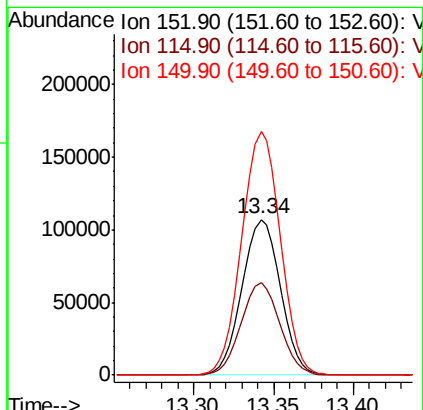
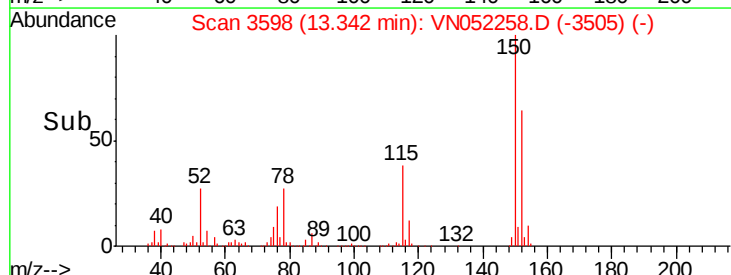
150 157.2 0.0 350.2

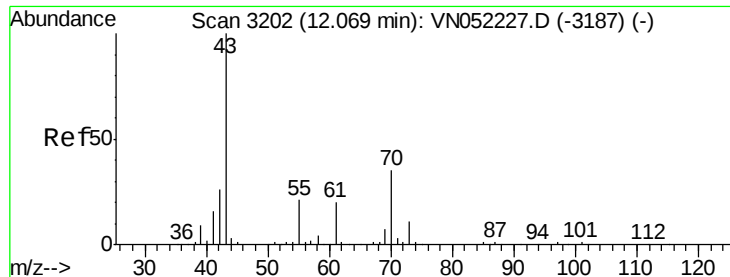


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.762 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN052258.D

Acq: 12 Nov 2018 13:25

Instrument :

MSVOA_N

ClientSampleId :

PB114678ZHE#02

Tot Ion: 43 Resp: 14388

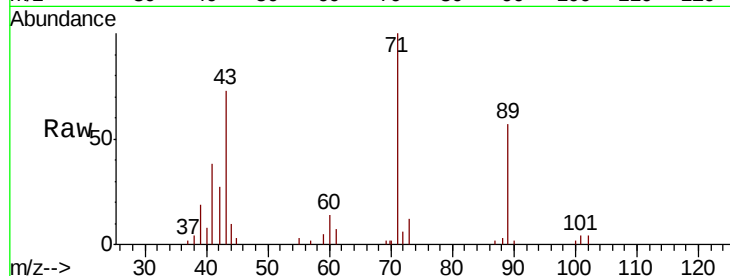
Ion Ratio Lower Upper

43 100

70 2.0 28.2 42.2#

55 2.1 17.4 26.2#

61 9.4 16.3 24.5#

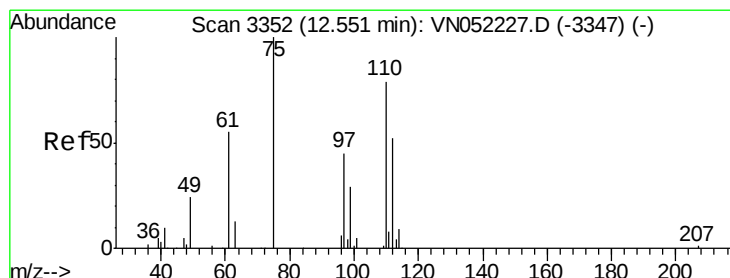
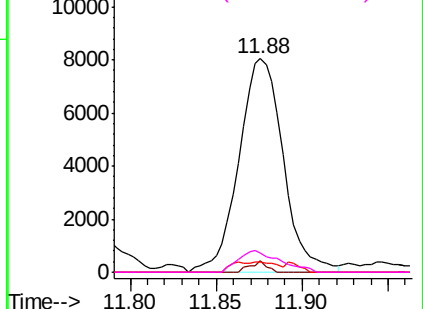
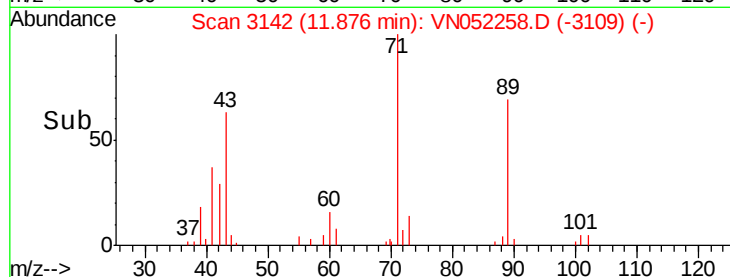


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 38.108 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052258.D

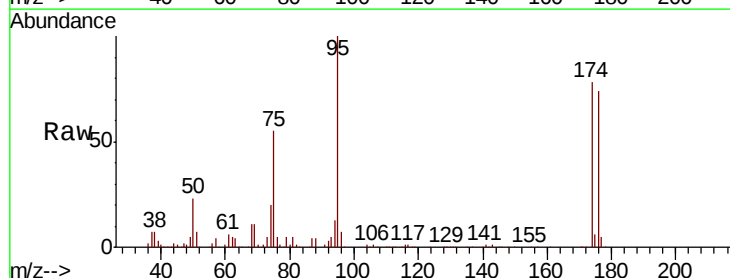
Acq: 12 Nov 2018 13:25

Tgt Ion: 75 Resp: 118331

Ion Ratio Lower Upper

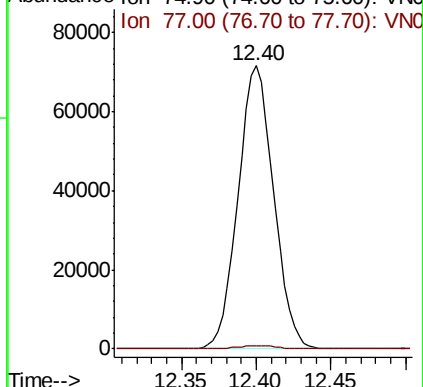
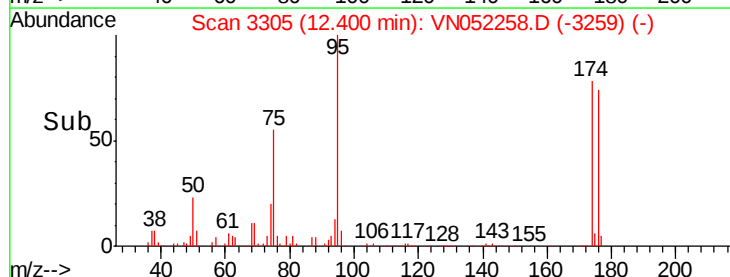
75 100

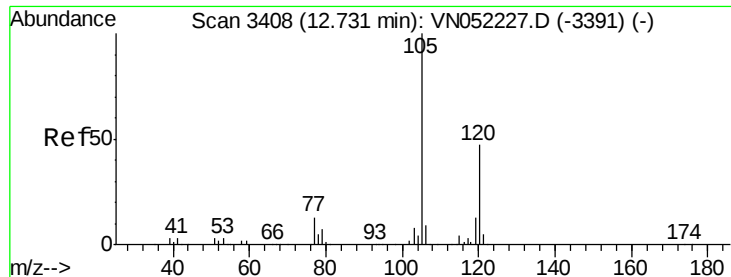
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

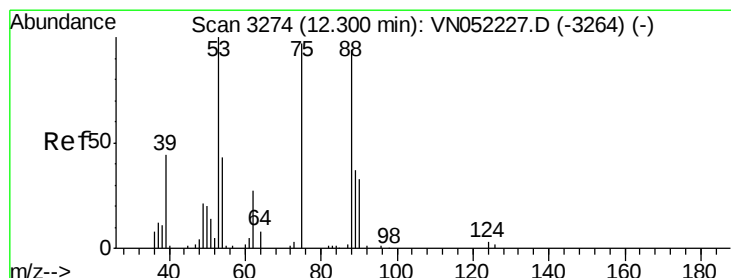
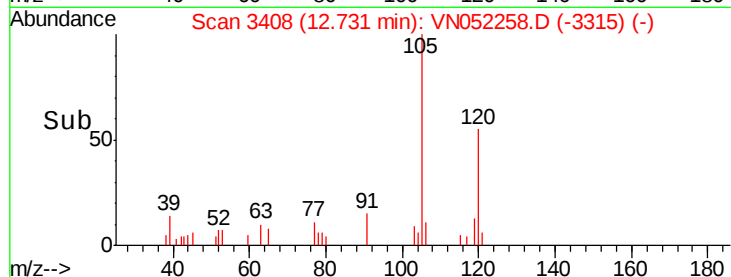
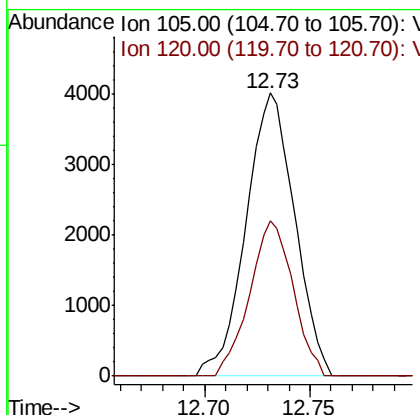
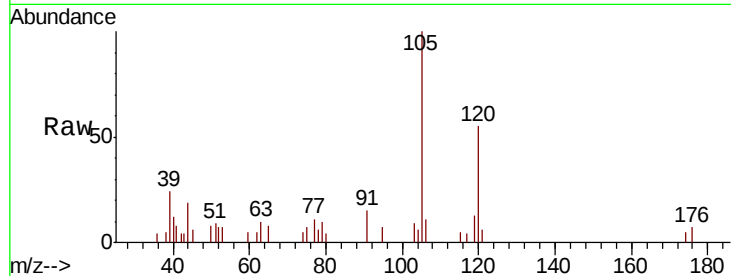




#80
 1,3,5-Trimethylbenzene
 Concen: 0.565 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN052258.D
 Acq: 12 Nov 2018 13:25

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114678ZHE#02

Tot Ion:105 Resp: 6449
 Ion Ratio Lower Upper
 105 100
 120 48.8 23.9 71.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 130.079 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN052258.D
 Acq: 12 Nov 2018 13:25

Tgt Ion: 75 Resp: 118331
 Ion Ratio Lower Upper
 75 100
 53 0.0 84.0 126.0#
 89 0.0 33.7 50.5#

