

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101218\
 Data File : VN051851.D
 Acq On : 12 Oct 2018 23:37
 Operator : MD\SY
 Sample : PB113779ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 32 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113779ZHE#04

Quant Time: Oct 13 02:09:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101118W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 09:51:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	792681	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1149280	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1023471	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	372704	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	434089	57.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.58%	
35) Dibromofluoromethane	7.59	113	427750	59.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.72%	
50) Toluene-d8	10.09	98	1592662	59.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.62%	
62) 4-Bromofluorobenzene	12.40	95	460776	50.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.24%	

Target Compounds

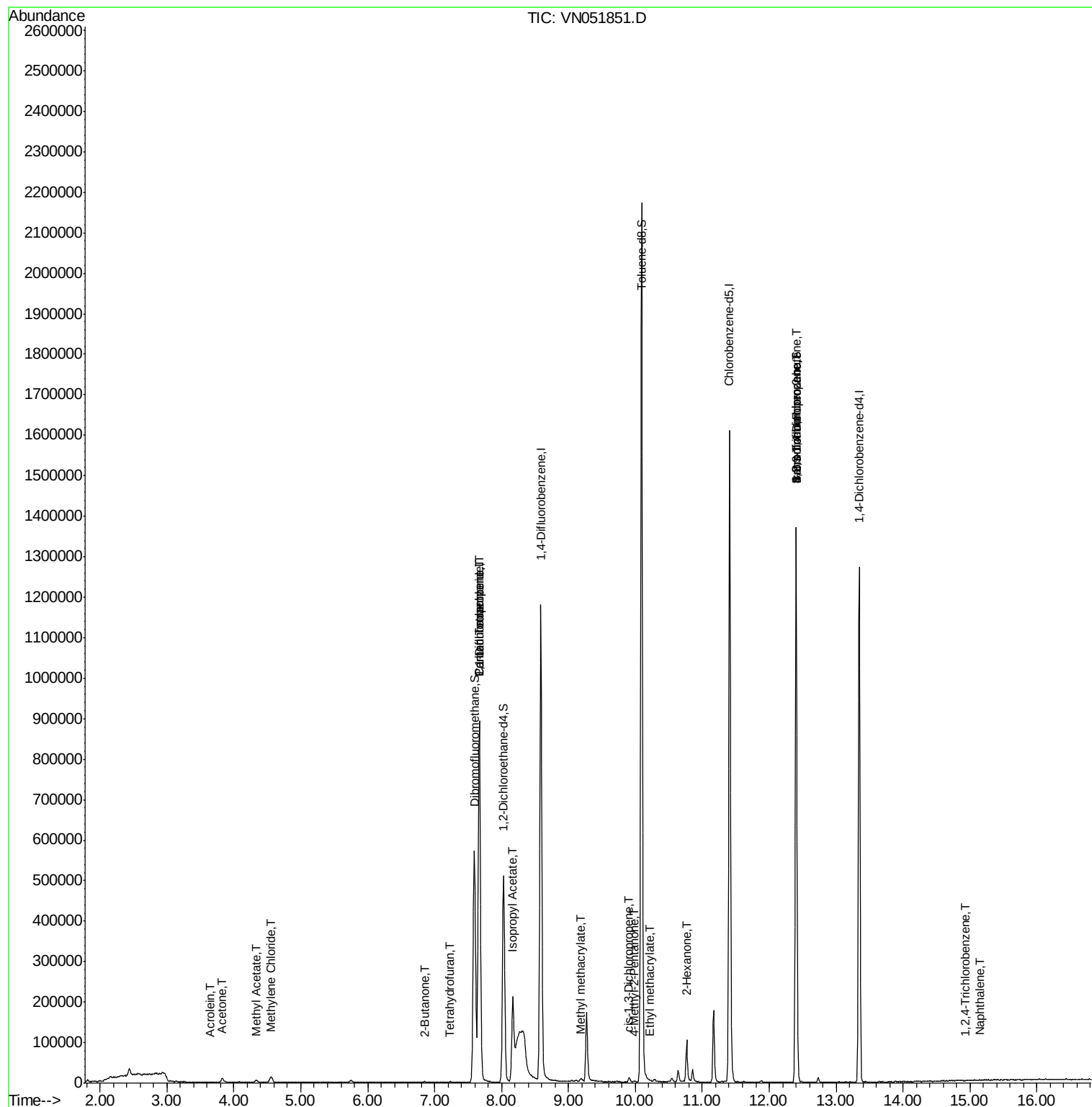
					Qvalue	
13) Acrolein	3.64	56	71	16.057	ug/l #	14
16) Acetone	3.83	43	16108	9.858	ug/l #	87
18) Methyl Acetate	4.33	43	8496	0.916	ug/l	93
20) Methylene Chloride	4.55	84	11414	1.688	ug/l #	83
25) 2-Butanone	6.84	43	893	0.387	ug/l #	78
29) Tetrahydrofuran	7.22	42	869	0.632	ug/l #	86
31) Cyclohexane	7.66	56	13646	Below Cal	#	17
36) 1,1-Dichloropropene	7.67	75	50657	5.445	ug/l #	50
38) Carbon Tetrachloride	7.67	117	73584	6.823	ug/l #	16
43) Isopropyl Acetate	8.17	43	265850	27.646	ug/l	95
48) Methyl methacrylate	9.18	41	4836	1.136	ug/l #	19
51) 4-Methyl-2-Pentanone	9.98	43	1731	0.349	ug/l #	69
54) cis-1,3-Dichloropropene	9.90	75	2226	0.209	ug/l #	68
56) Ethyl methacrylate	10.23	69	1795	0.225	ug/l #	49
59) 2-Hexanone	10.77	43	13902	3.992	ug/l #	49
71) Bromoform	12.40	173	3850	4.154	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	235329	51.187	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	235329	145.401	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	30	3.659	ug/l #	82
95) Naphthalene	15.14	128	568	4.434	ug/l #	69

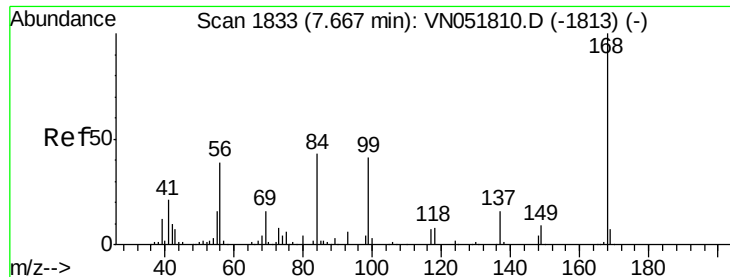
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Oct 12 09:51:20 2018
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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: VN051851.D

Acq: 12 Oct 2018 23:37

Instrument :

MSVOA_N

ClientSampleId :

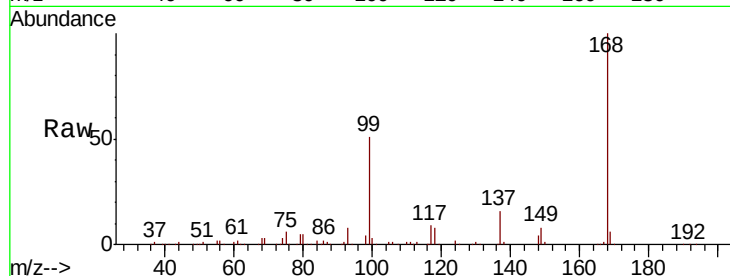
PB113779ZHE#04

Tot Ion:168 Resp: 792681

Ion Ratio Lower Upper

168 100

99 50.8 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): VN051851.D

Ion 98.90 (98.60 to 99.60): VN051851.D

7.67

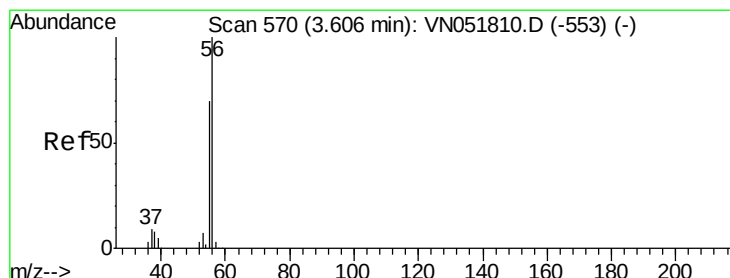
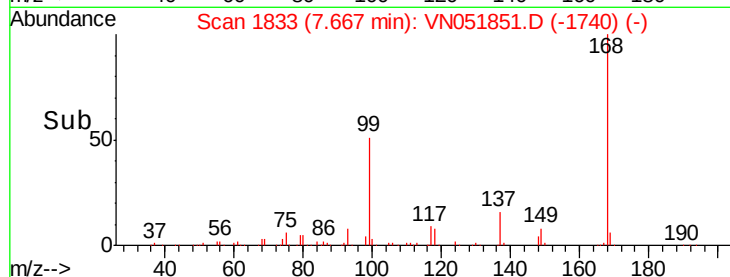
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 16.057 ug/l

RT: 3.64 min Scan# 580

Delta R.T. 0.03 min

Lab File: VN051851.D

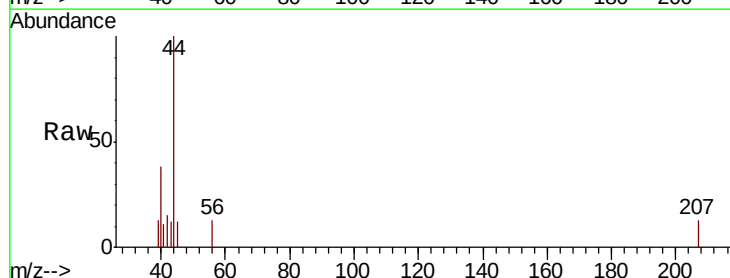
Acq: 12 Oct 2018 23:37

Tgt Ion: 56 Resp: 71

Ion Ratio Lower Upper

56 100

55 0.0 57.7 86.5#



Abundance Ion 56.00 (55.70 to 56.70): VN051851.D

Ion 55.00 (54.70 to 55.70): VN051851.D

3.64

200

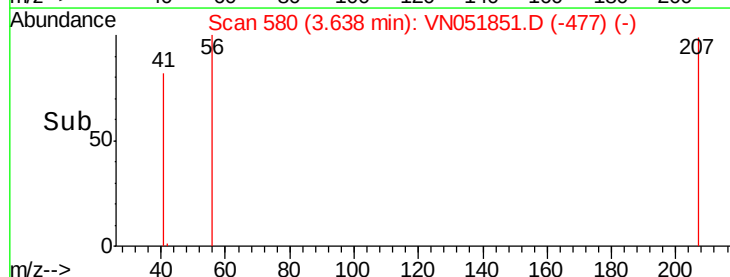
150

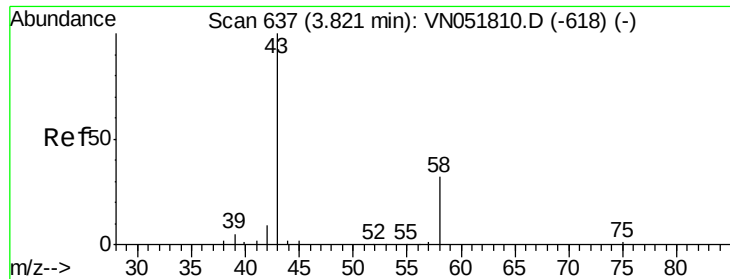
100

50

0

Time-->





#16

Acetone

Concen: 9.858 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051851.D

Acq: 12 Oct 2018 23:37

Instrument :

MSVOA_N

ClientSampleId :

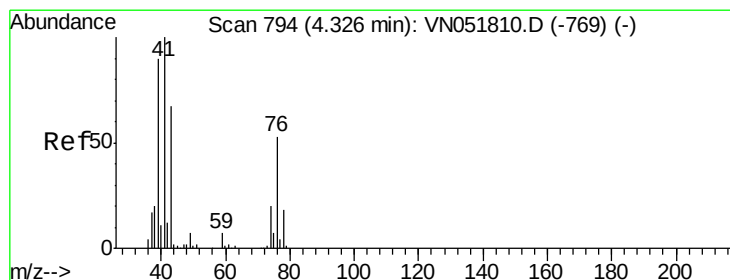
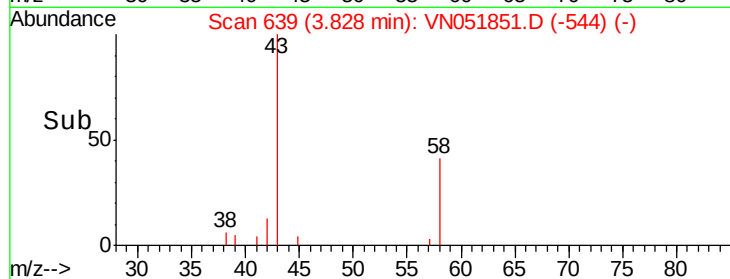
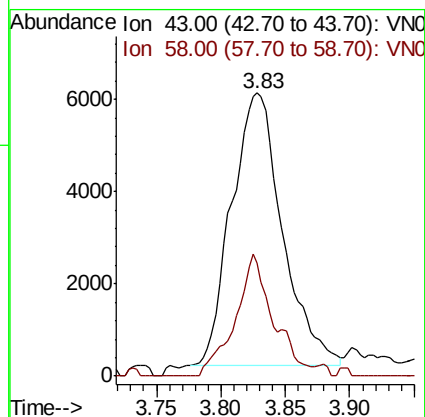
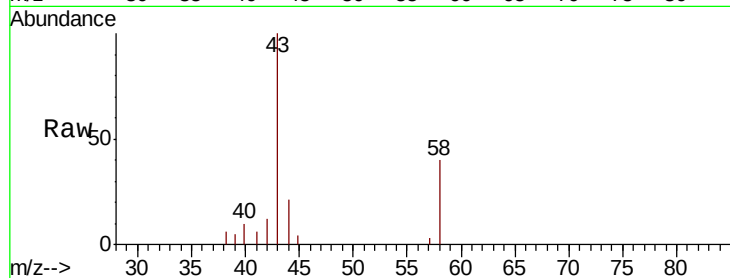
PB113779ZHE#04

Tot Ion: 43 Resp: 16108

Ion Ratio Lower Upper

43 100

58 41.4 27.2 40.8#



#18

Methyl Acetate

Concen: 0.916 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN051851.D

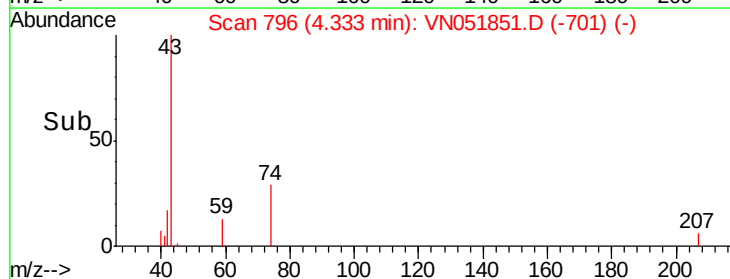
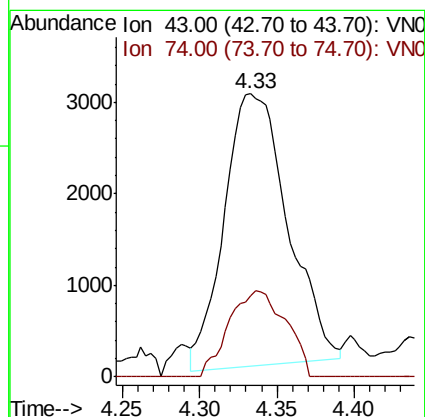
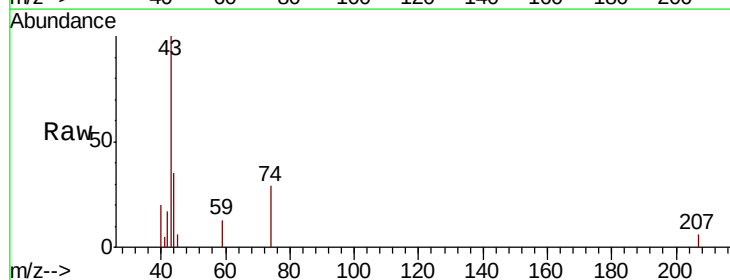
Acq: 12 Oct 2018 23:37

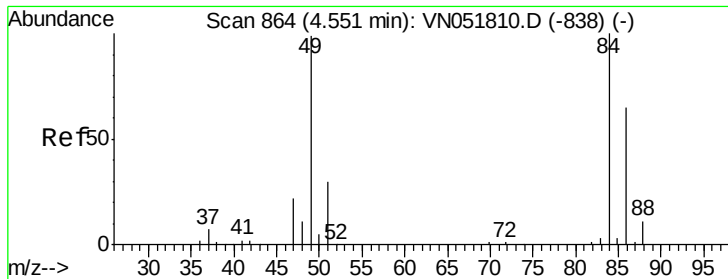
Tgt Ion: 43 Resp: 8496

Ion Ratio Lower Upper

43 100

74 28.3 19.8 29.8

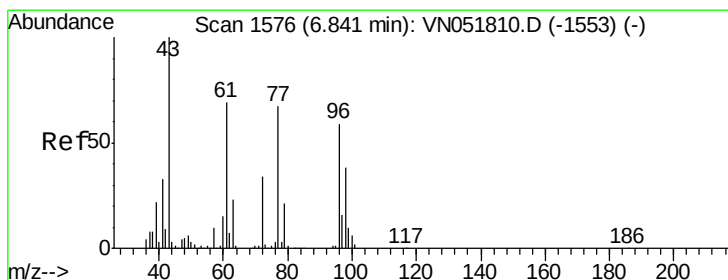
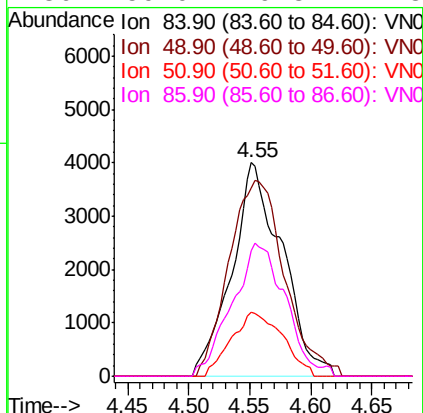
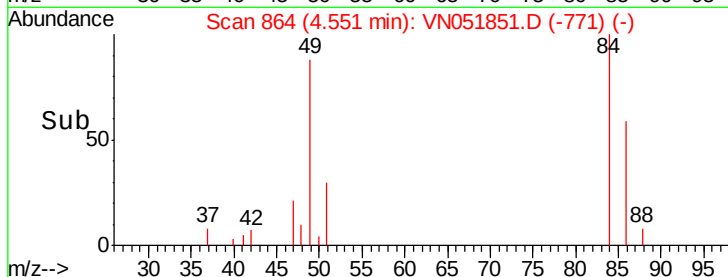
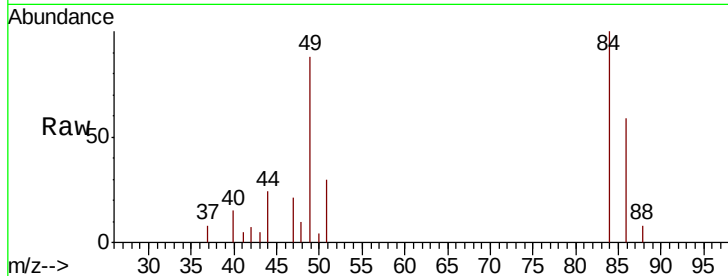




#20
Methylene Chloride
Concen: 1.688 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN051851.D
Acq: 12 Oct 2018 23:37

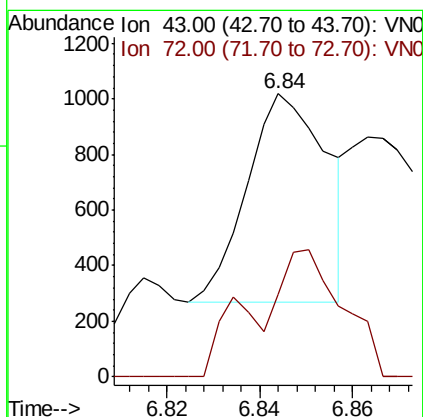
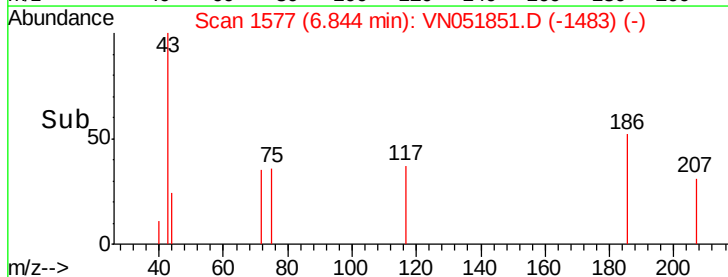
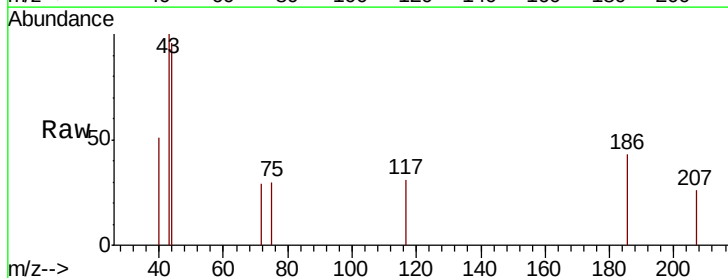
Instrument :
MSVOA_N
ClientSampleId :
PB113779ZHE#04

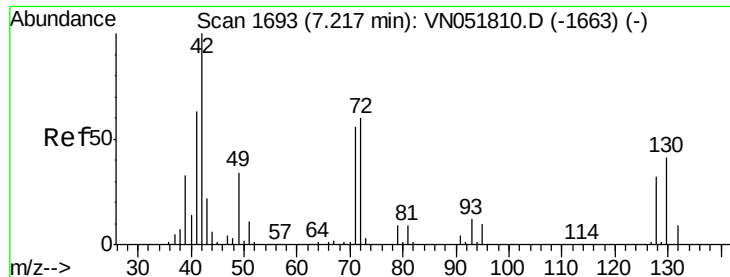
Tot Ion: 84 Resp: 11414
Ion Ratio Lower Upper
84 100
49 88.2 93.2 139.8#
51 30.2 29.0 43.6
86 59.0 49.8 74.8



#25
2-Butanone
Concen: 0.387 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.00 min
Lab File: VN051851.D
Acq: 12 Oct 2018 23:37

Tgt Ion: 43 Resp: 893
Ion Ratio Lower Upper
43 100
72 39.4 22.3 33.5#

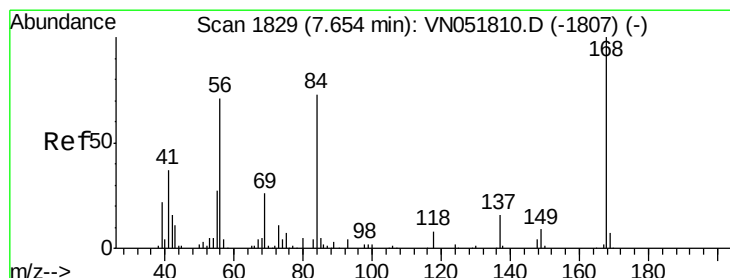
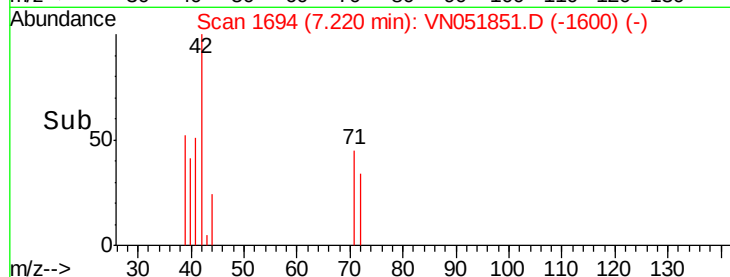
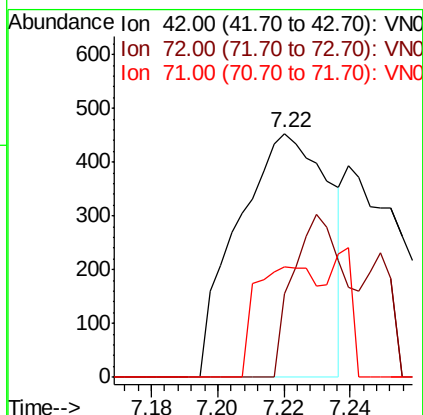
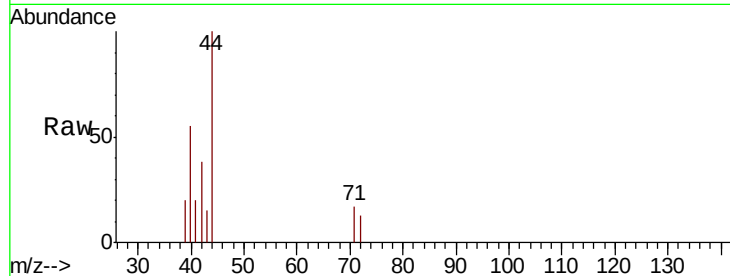




#29
Tetrahydrofuran
Concen: 0.632 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.00 min
Lab File: VN051851.D
Acq: 12 Oct 2018 23:37

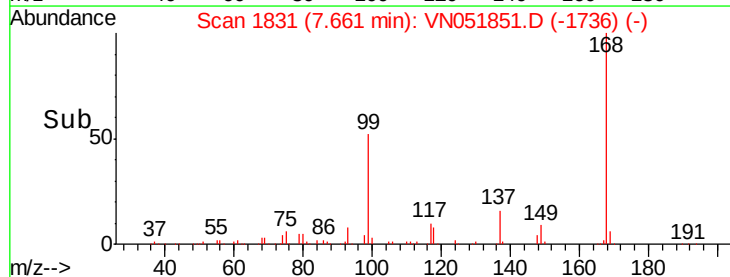
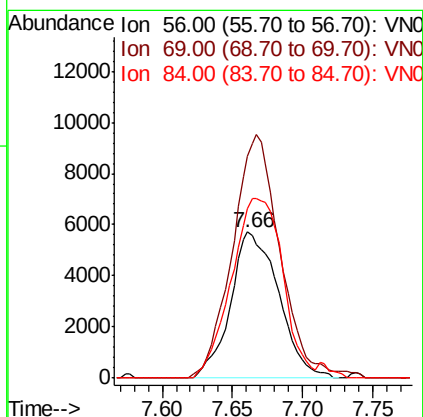
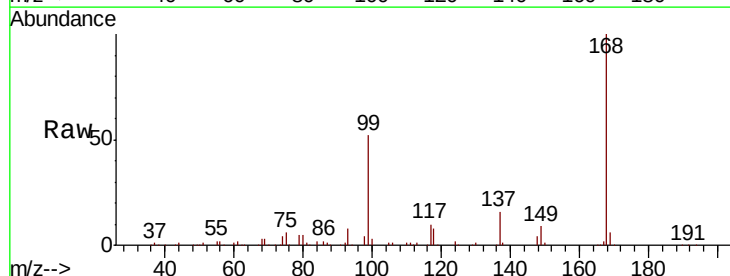
Instrument :
MSVOA_N
ClientSampleId :
PB113779ZHE#04

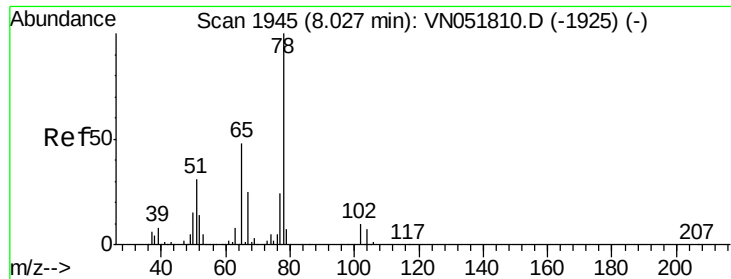
Tot Ion: 42 Resp: 869
Ion Ratio Lower Upper
42 100
72 38.8 35.5 53.3
71 29.6 33.7 50.5#



#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN051851.D
Acq: 12 Oct 2018 23:37

Tgt Ion: 56 Resp: 13646
Ion Ratio Lower Upper
56 100
69 151.9 26.2 39.4#
84 115.9 68.3 102.5#

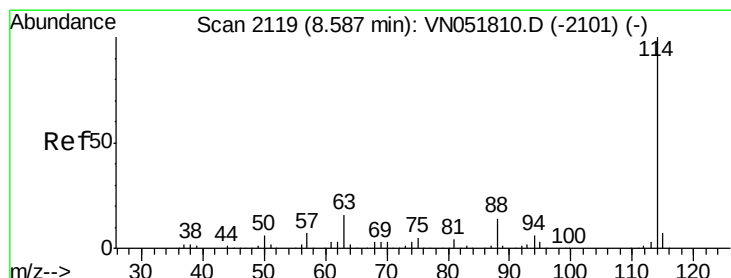
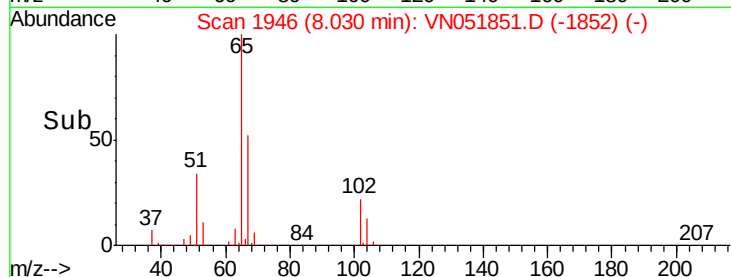
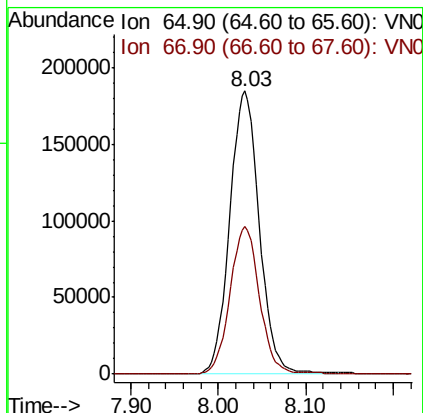
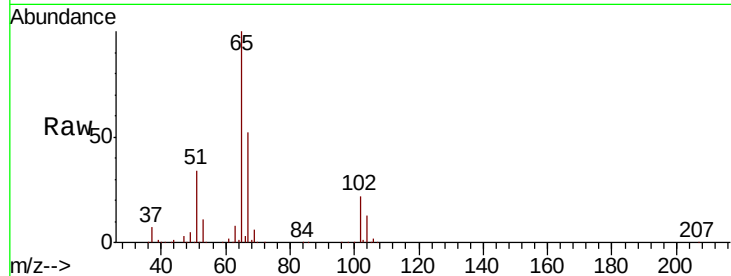




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051851.D
 Acq: 12 Oct 2018 23:37

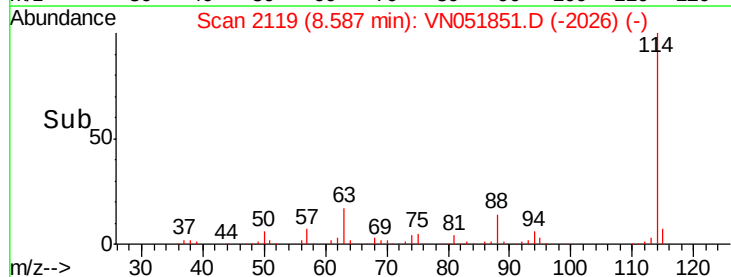
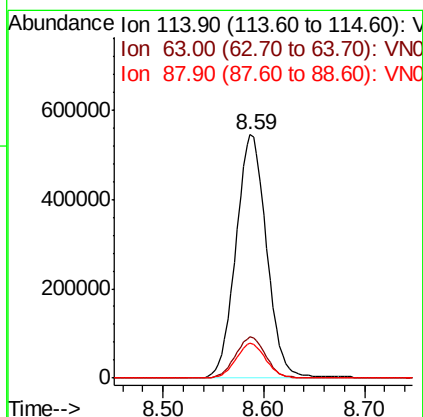
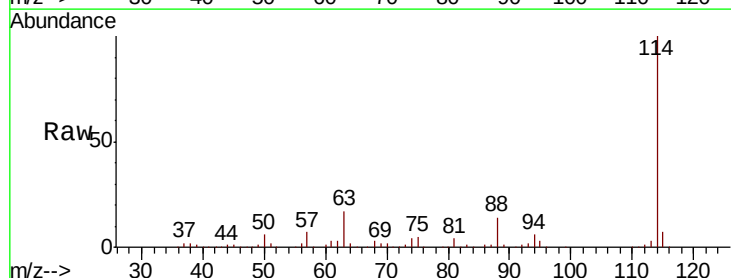
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113779ZHE#04

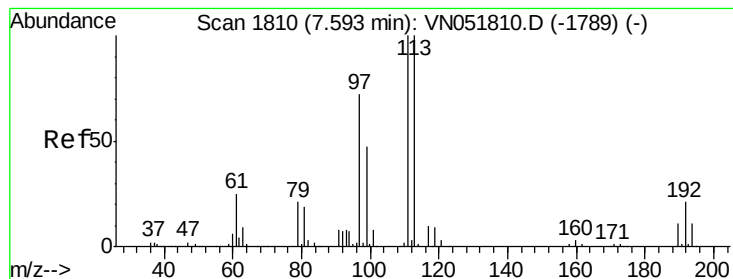
Tot Ion: 65 Resp: 434089
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051851.D
 Acq: 12 Oct 2018 23:37

Tgt Ion: 114 Resp: 1149280
 Ion Ratio Lower Upper
 114 100
 63 16.9 0.0 38.6
 88 14.2 0.0 30.6





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN051851.D

Acq: 12 Oct 2018 23:37

Instrument :

MSVOA_N

ClientSampleId :

PB113779ZHE#04

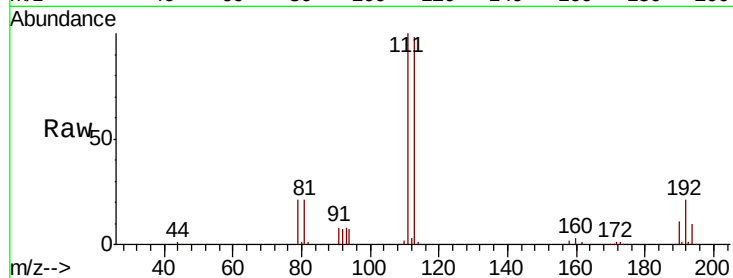
Tot Ion:113 Resp: 427750

Ion Ratio Lower Upper

113 100

111 102.3 82.6 123.8

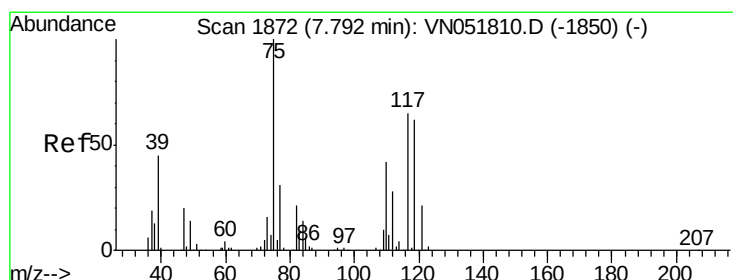
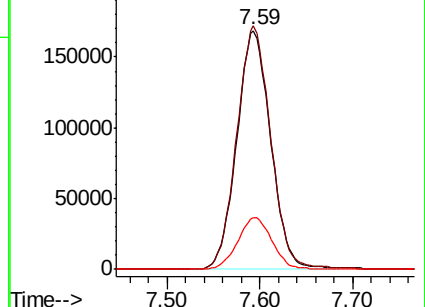
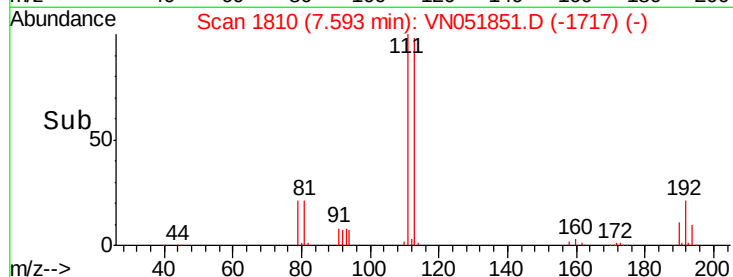
192 21.9 18.0 27.0



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: 5.445 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN051851.D

Acq: 12 Oct 2018 23:37

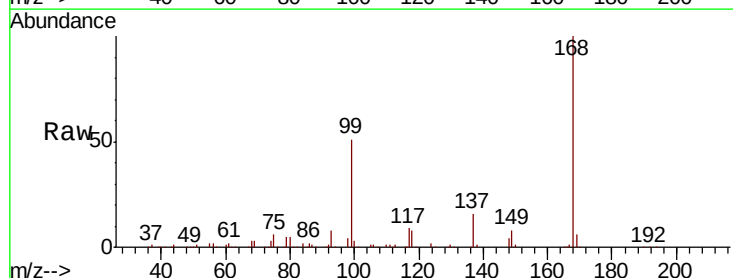
Tgt Ion: 75 Resp: 50657

Ion Ratio Lower Upper

75 100

110 9.8 18.1 54.4#

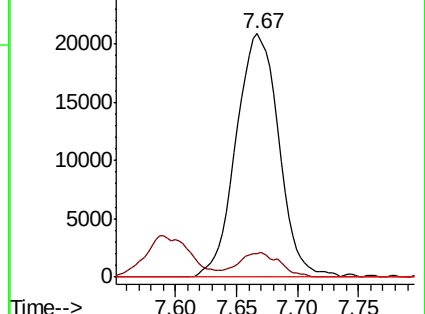
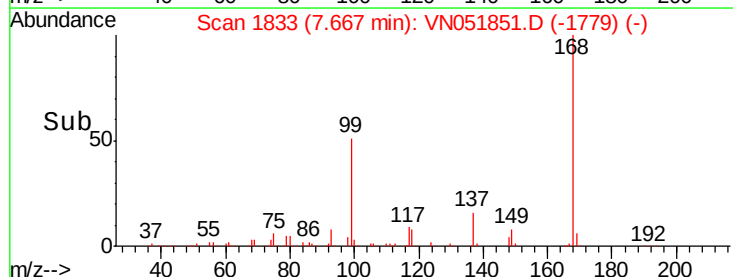
77 0.0 24.8 37.2#

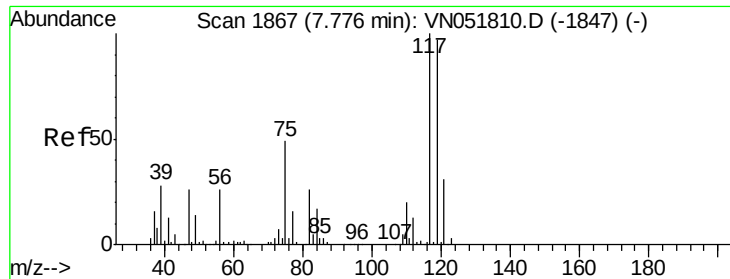


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.823 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051851.D

Acq: 12 Oct 2018 23:37

Instrument :

MSVOA_N

ClientSampleId :

PB113779ZHE#04

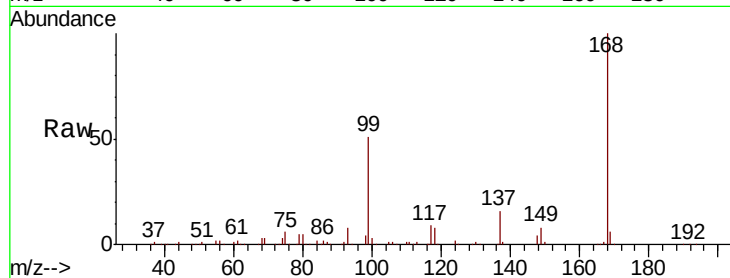
Tot Ion:117 Resp: 73584

Ion Ratio Lower Upper

117 100

119 4.2 76.3 114.5#

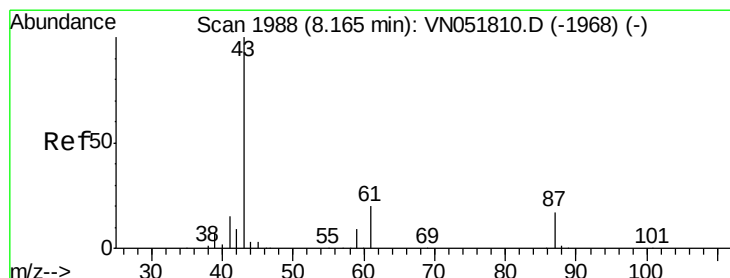
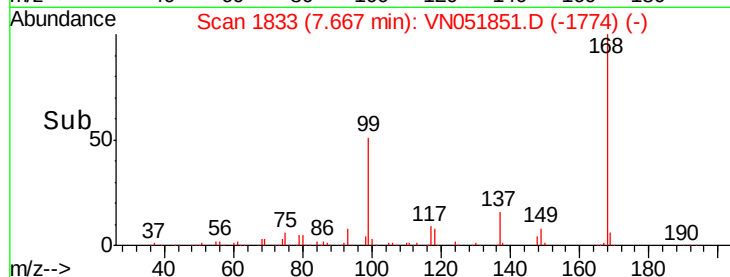
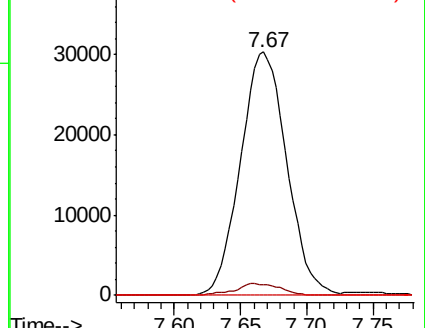
121 0.0 24.6 36.8#



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: 27.646 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051851.D

Acq: 12 Oct 2018 23:37

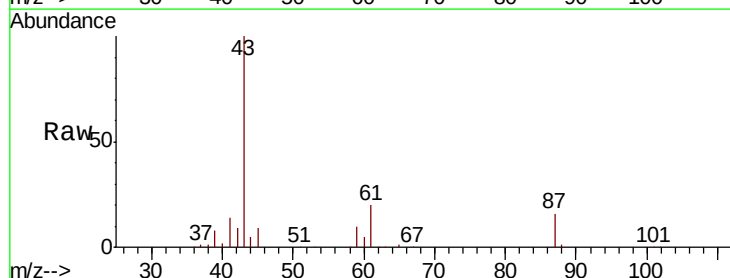
Tgt Ion: 43 Resp: 265850

Ion Ratio Lower Upper

43 100

61 18.4 17.5 26.3

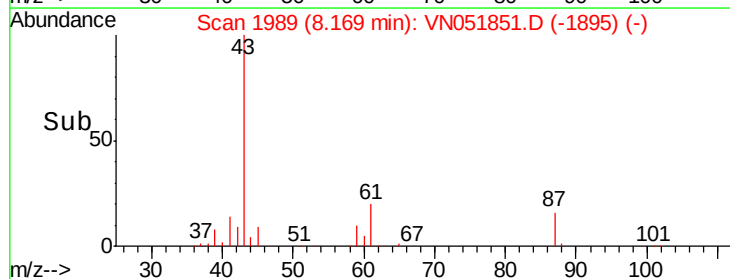
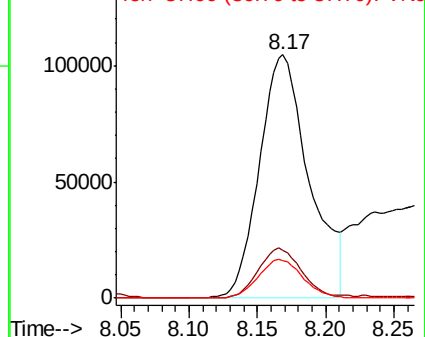
87 14.3 11.3 16.9

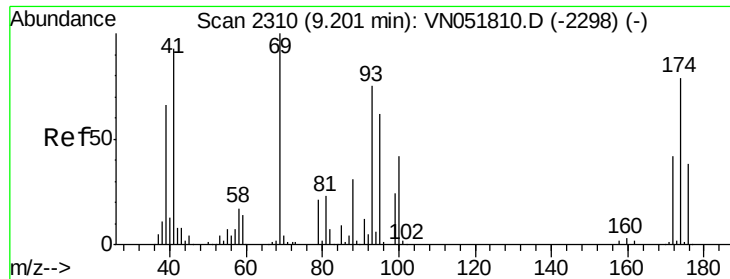


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

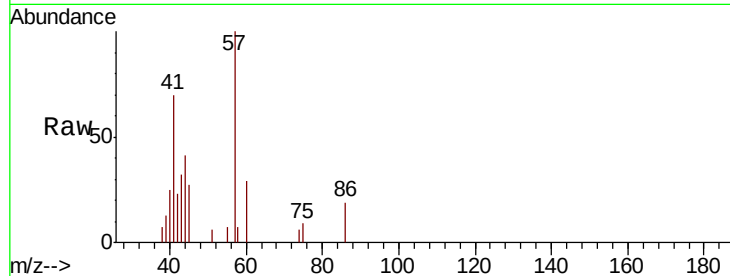




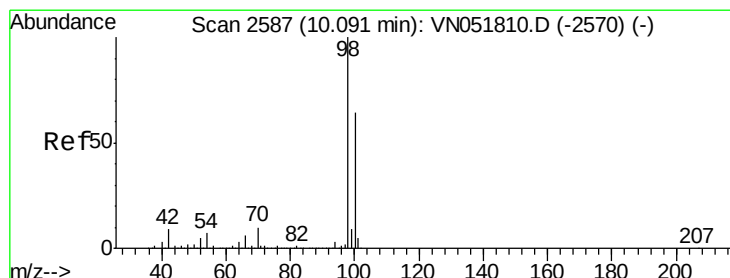
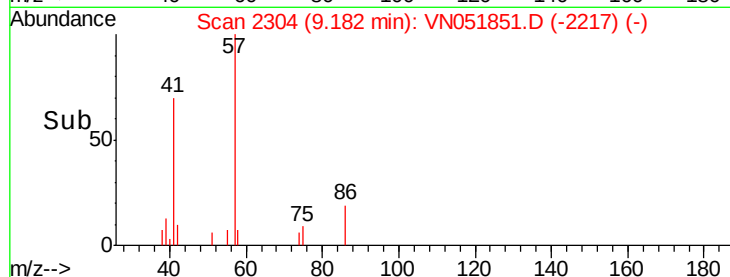
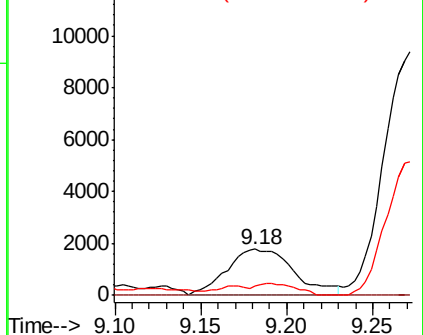
#48
Methvl methacrylate
Concen: 1.136 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN051851.D
Acq: 12 Oct 2018 23:37

Instrument :
MSVOA_N
ClientSampleId :
PB113779ZHE#04

Tot Ion: 41 Resp: 4836
Ion Ratio Lower Upper
41 100
69 0.0 74.7 112.1#
39 15.1 42.2 63.2#

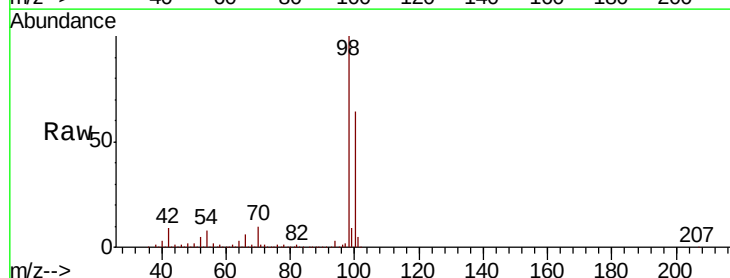


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

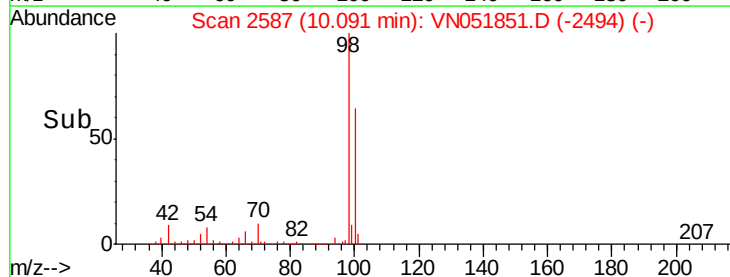
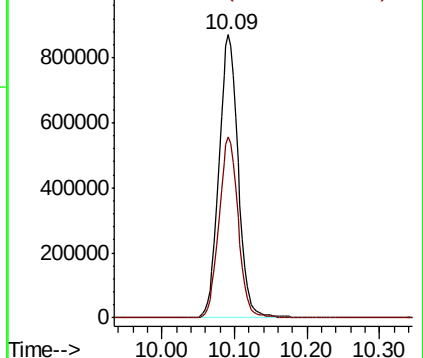


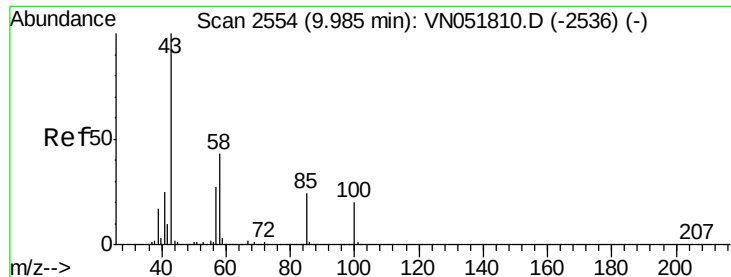
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051851.D
Acq: 12 Oct 2018 23:37

Tgt Ion: 98 Resp: 1592662
Ion Ratio Lower Upper
98 100
100 64.2 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.349 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN051851.D

Acq: 12 Oct 2018 23:37

Instrument :

MSVOA_N

ClientSampleId :

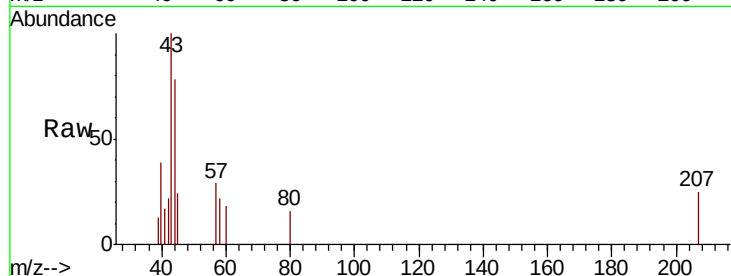
PB113779ZHE#04

Tot Ion: 43 Resp: 1731

Ion Ratio Lower Upper

43 100

58 21.5 32.4 48.6#



Abundance Ion 43.00 (42.70 to 43.70): VN051810.D (-2536) (-)

Ion 58.00 (57.70 to 58.70): VN051810.D (-2536) (-)

2500

2000

1500

1000

500

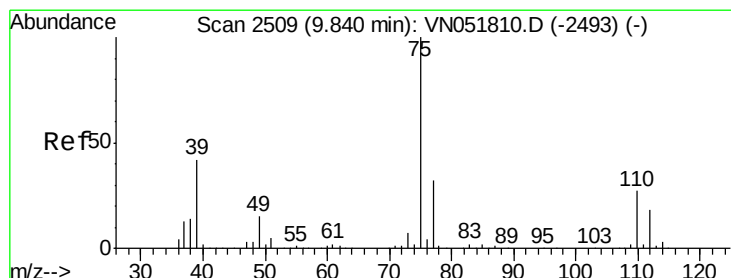
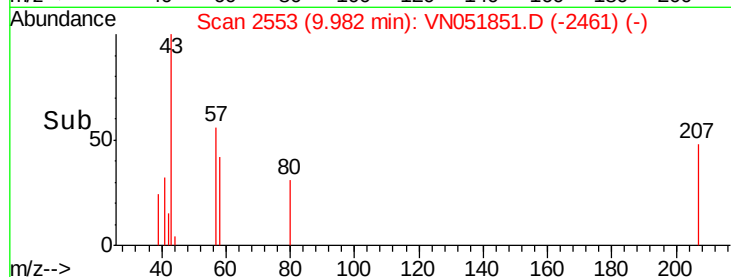
0

9.95

9.98

10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 0.209 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.06 min

Lab File: VN051851.D

Acq: 12 Oct 2018 23:37

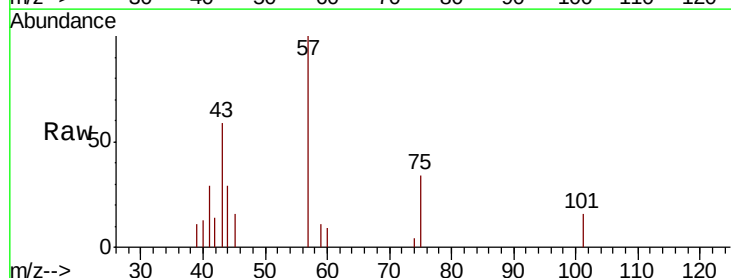
Tgt Ion: 75 Resp: 2226

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#

39 33.1 33.0 49.4



Abundance Ion 74.90 (74.60 to 75.60): VN051810.D (-2493) (-)

Ion 76.90 (76.60 to 77.60): VN051810.D (-2493) (-)

Ion 39.00 (38.70 to 39.70): VN051810.D (-2493) (-)

1500

1000

500

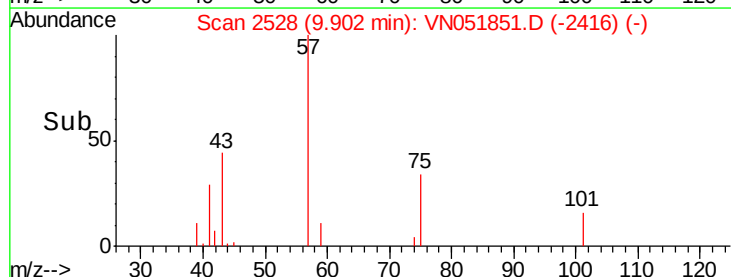
0

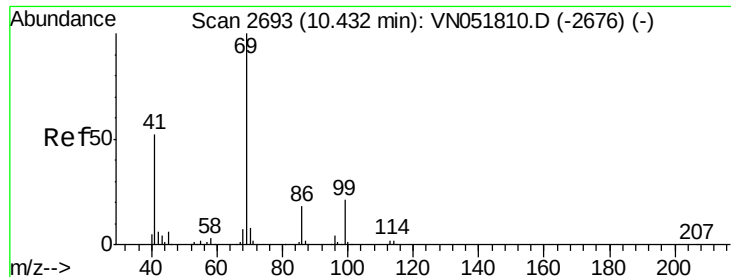
9.85

9.90

9.95

Time-->





#56

Ethyl methacrylate

Concen: 0.225 ug/l

RT: 10.23 min Scan# 2630

Delta R.T. -0.20 min

Lab File: VN051851.D

Acq: 12 Oct 2018 23:37

Instrument :

MSVOA_N

ClientSampleId :

PB113779ZHE#04

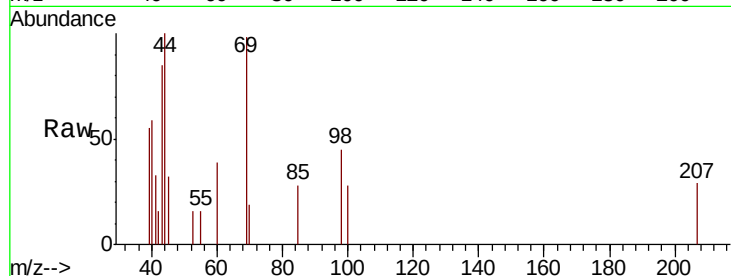
Tot Ion: 69 Resp: 1795

Ion Ratio Lower Upper

69 100

41 11.3 48.3 72.5#

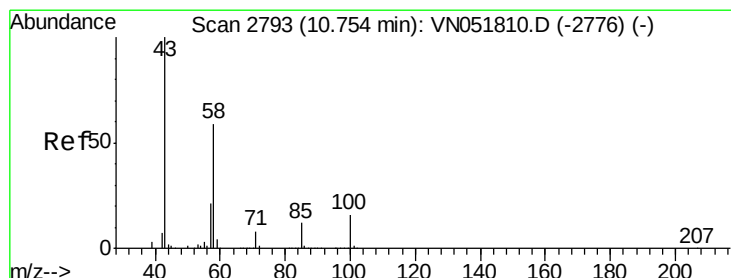
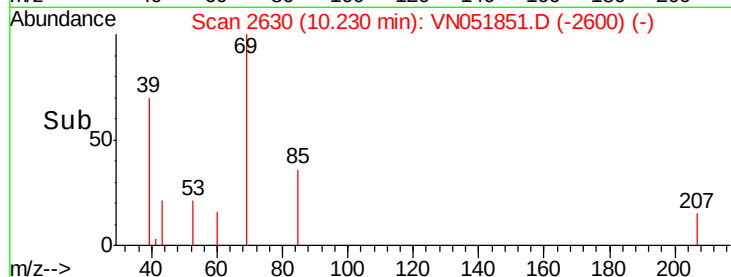
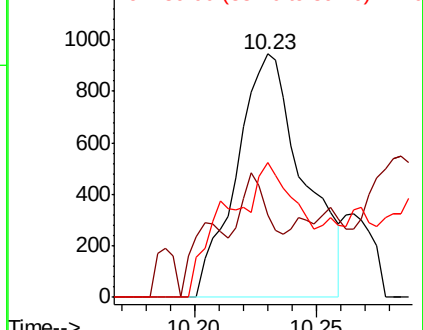
39 17.3 24.0 36.0#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#59

2-Hexanone

Concen: 3.992 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN051851.D

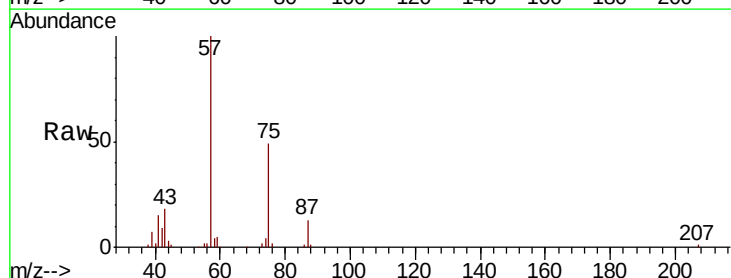
Acq: 12 Oct 2018 23:37

Tgt Ion: 43 Resp: 13902

Ion Ratio Lower Upper

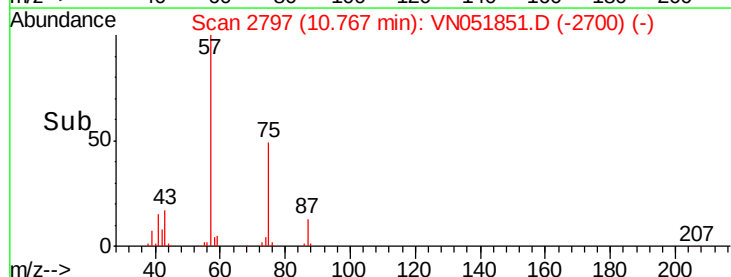
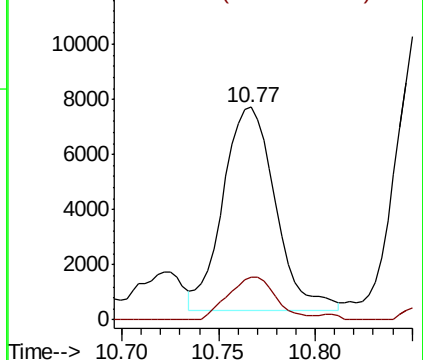
43 100

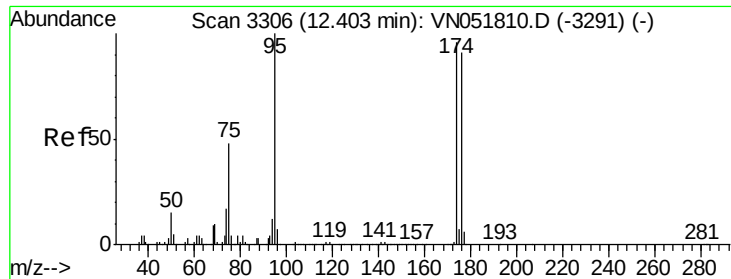
58 19.4 28.3 85.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

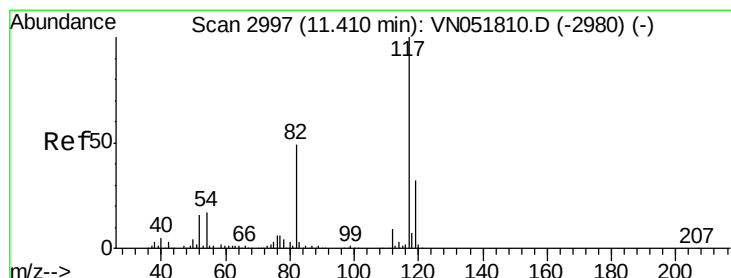
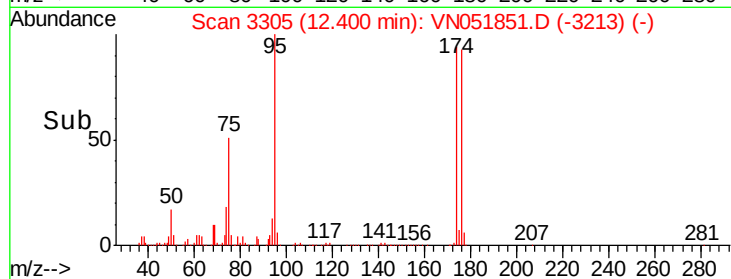
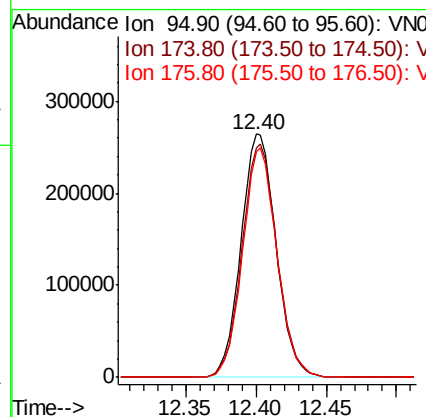
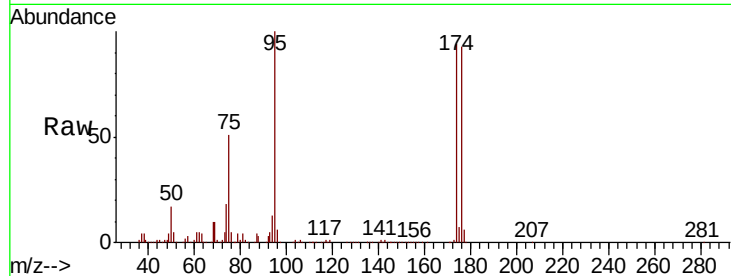




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN051851.D
Acq: 12 Oct 2018 23:37

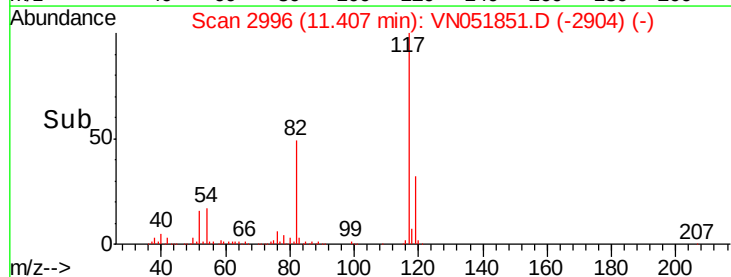
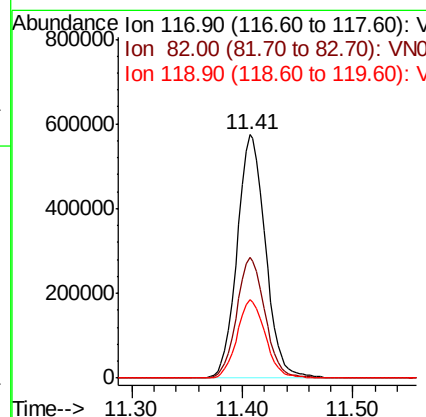
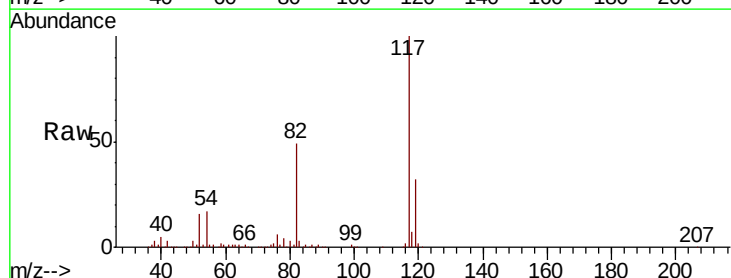
Instrument :
MSVOA_N
ClientSampleId :
PB113779ZHE#04

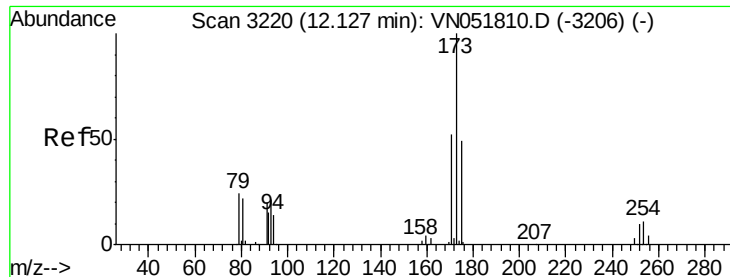
Tot Ion: 95 Resp: 460776
Ion Ratio Lower Upper
95 100
174 95.2 0.0 183.0
176 92.4 0.0 178.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051851.D
Acq: 12 Oct 2018 23:37

Tgt Ion: 117 Resp: 1023471
Ion Ratio Lower Upper
117 100
82 49.4 42.6 64.0
119 32.1 25.8 38.6





#71

Bromoform

Concen: 4.154 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN051851.D

Acq: 12 Oct 2018 23:37

Instrument :

MSVOA_N

ClientSampleId :

PB113779ZHE#04

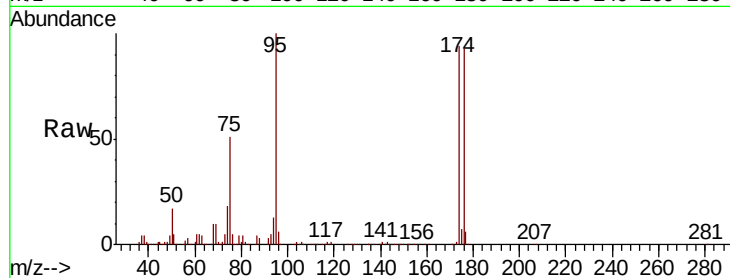
Tot Ion:173 Resp: 3850

Ion Ratio Lower Upper

173 100

175 701.1 24.4 73.4#

254 0.0 0.1 0.1#

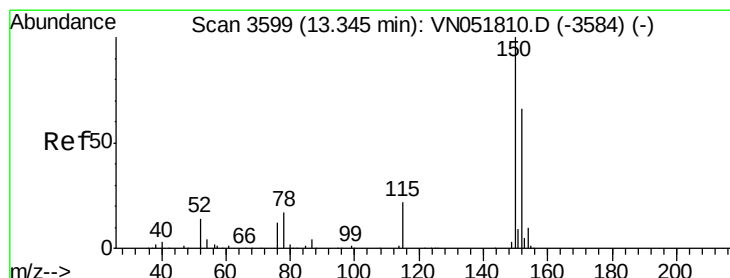
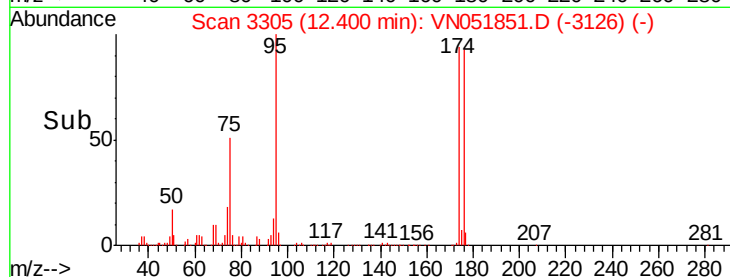
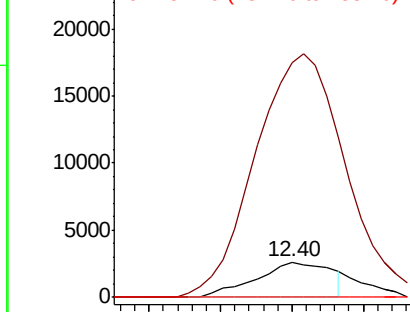


Abundance

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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051851.D

Acq: 12 Oct 2018 23:37

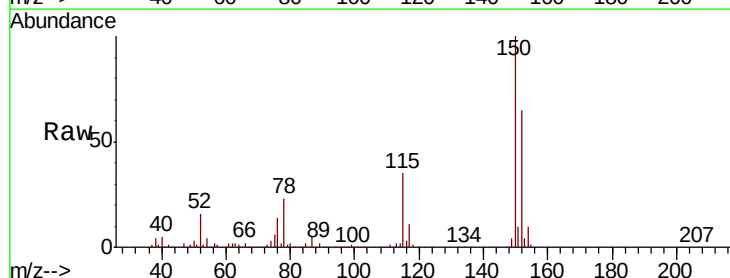
Tgt Ion:152 Resp: 372704

Ion Ratio Lower Upper

152 100

115 54.5 27.8 83.4

150 156.7 0.0 351.4

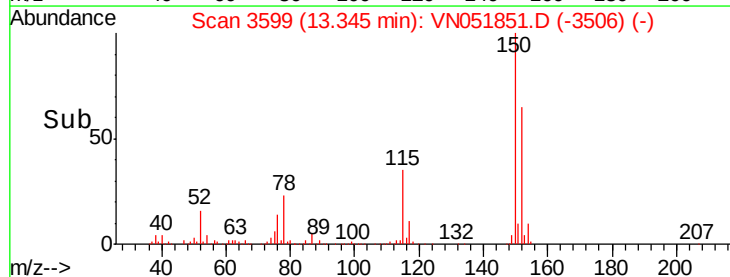
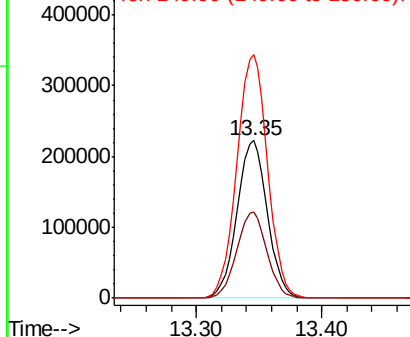


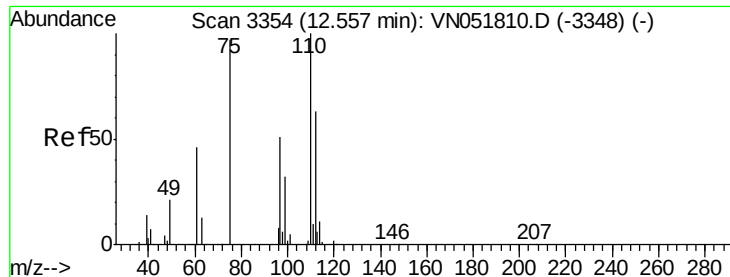
Abundance

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: 51.187 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.16 min

Lab File: VN051851.D

Acq: 12 Oct 2018 23:37

Instrument :

MSVOA_N

ClientSampleId :

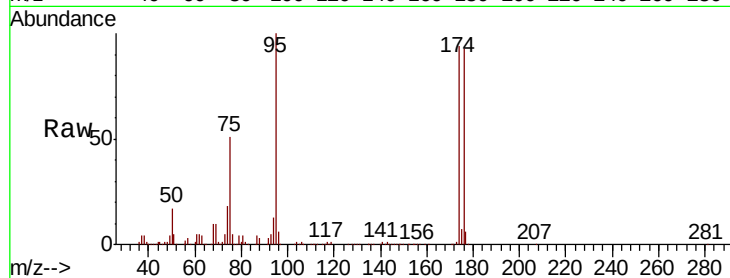
PB113779ZHE#04

Tot Ion: 75 Resp: 235329

Ion Ratio Lower Upper

75 100

77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

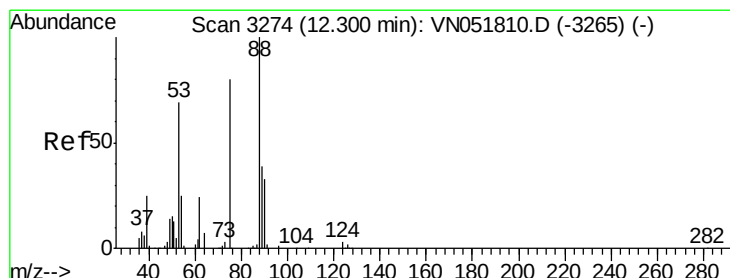
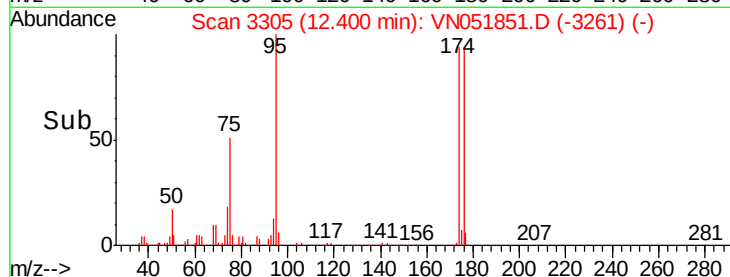
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 145.401 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051851.D

Acq: 12 Oct 2018 23:37

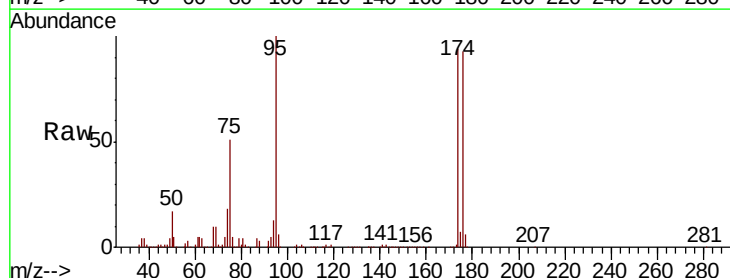
Tgt Ion: 75 Resp: 235329

Ion Ratio Lower Upper

75 100

53 0.0 68.9 103.3#

89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

12.40

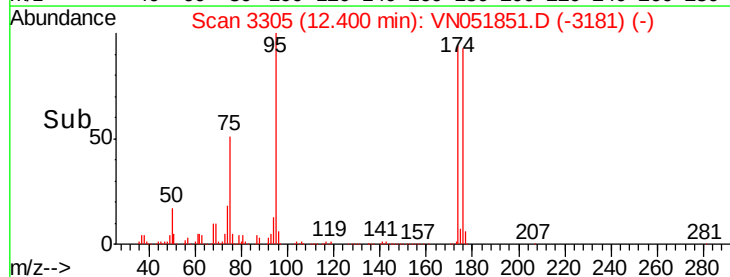
150000

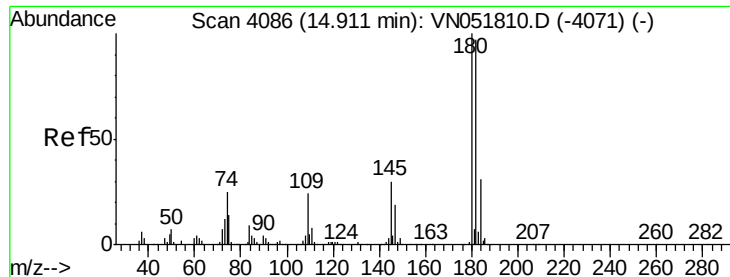
100000

50000

0

Time-->

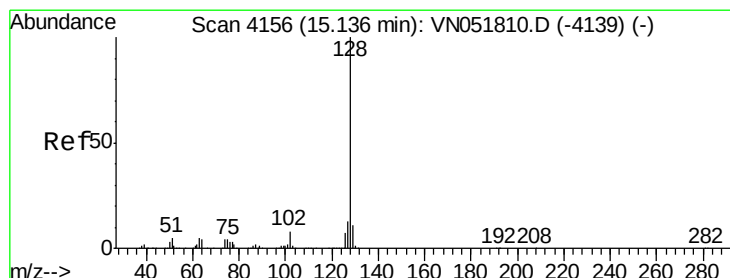
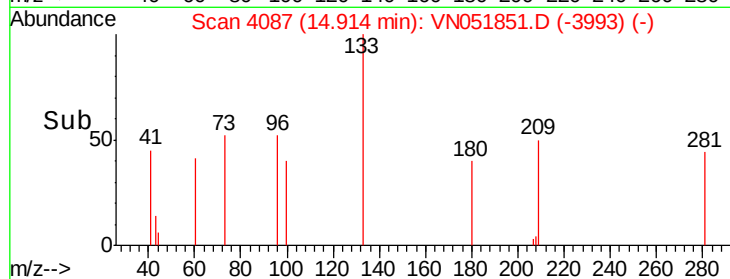
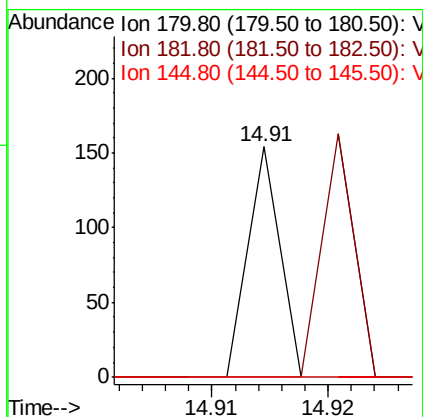
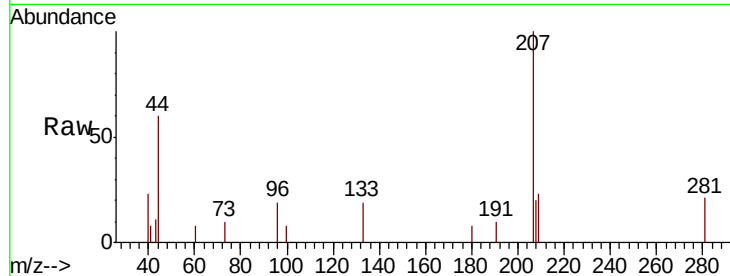




#93
 1,2,4-Trichlorobenzene
 Concen: 3.659 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN051851.D
 Acq: 12 Oct 2018 23:37

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113779ZHE#04

Tot Ion:180 Resp: 30
 Ion Ratio Lower Upper
 180 100
 182 103.3 48.2 144.6
 145 0.0 14.1 42.2#



#95
 Naphthalene
 Concen: 4.434 ug/l
 RT: 15.14 min Scan# 4157
 Delta R.T. 0.00 min
 Lab File: VN051851.D
 Acq: 12 Oct 2018 23:37

Tgt Ion:128 Resp: 568
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.5 15.7#
 129 0.0 8.7 13.1#

