

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN083118\
 Data File : VN050987.D
 Acq On : 31 Aug 2018 14:50
 Operator : MD\SY
 Sample : PB112510ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112510ZHE#05

Quant Time: Aug 31 23:01:53 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	588249	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	969424	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	804892	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	257015	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	382074	53.95	ug/l	0.00
Spiked Amount			Recovery	=	107.90%	
35) Dibromofluoromethane	7.60	113	371917	48.22	ug/l	0.00
Spiked Amount			Recovery	=	96.44%	
50) Toluene-d8	10.09	98	1302658	45.18	ug/l	0.00
Spiked Amount			Recovery	=	90.36%	
62) 4-Bromofluorobenzene	12.40	95	337166	35.19	ug/l	0.00
Spiked Amount			Recovery	=	70.38%	

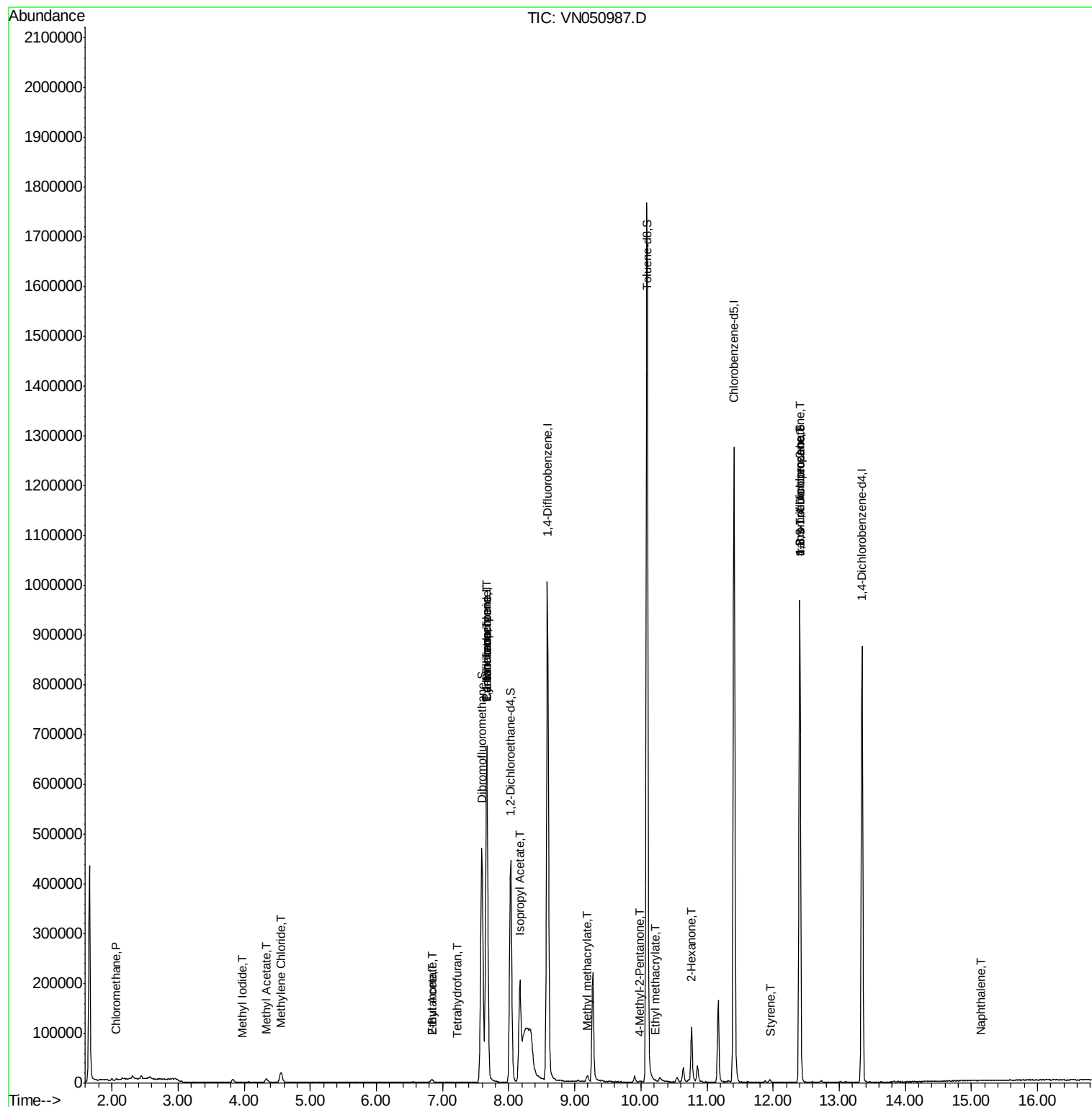
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2101	0.22	ug/l	89
5) Bromomethane	2.57	94	2813	Below	Cal	99
10) Methyl Iodide	3.96	142	662	6.43	ug/l #	43
16) Acetone	3.83	43	10014	Below	Cal	96
18) Methyl Acetate	4.34	43	13887	2.08	ug/l	93
20) Methylene Chloride	4.55	84	16317	2.04	ug/l	90
25) 2-Butanone	6.85	43	5262	1.84	ug/l	100
29) Tetrahydrofuran	7.22	42	392	0.24	ug/l #	33
31) Cyclohexane	7.67	56	10122	1.30	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	41070	3.59	ug/l #	48
37) Ethyl Acetate	6.85	43	5262	0.80	ug/l #	67
38) Carbon Tetrachloride	7.67	117	51341	4.44	ug/l #	17
43) Isopropyl Acetate	8.17	43	252177	22.32	ug/l	95
48) Methyl methacrylate	9.18	41	7527	1.31	ug/l #	19
51) 4-Methyl-2-Pentanone	9.99	43	1735	0.26	ug/l #	72
56) Ethyl methacrylate	10.23	69	1685	2.51	ug/l #	40
59) 2-Hexanone	10.77	43	16597	3.70	ug/l #	60
70) Styrene	11.97	104	69	1.27	ug/l #	26
76) 1,2,3-Trichloropropane	12.40	75	159336	35.40	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	159336	119.66	ug/l #	15
95) Naphthalene	15.13	128	463	5.44	ug/l #	69

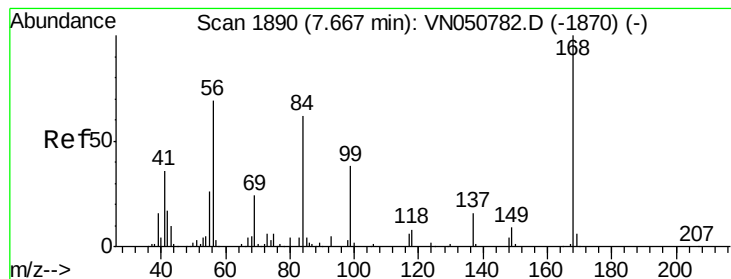
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Aug 22 05:38:12 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: VN050987.D

Acq: 31 Aug 2018 14:50

Instrument :

MSVOA_N

ClientSampleId :

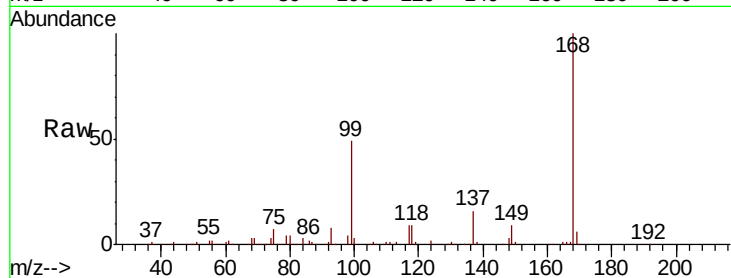
PB112510ZHE#05

Tot Ion:168 Resp: 588249

Ion Ratio Lower Upper

168 100

99 49.0 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

250000

200000

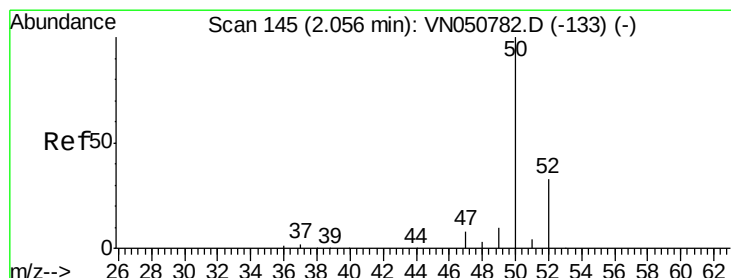
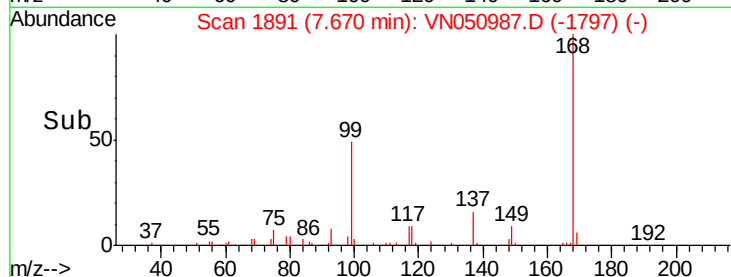
150000

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#3

Chloromethane

Concen: 0.22 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050987.D

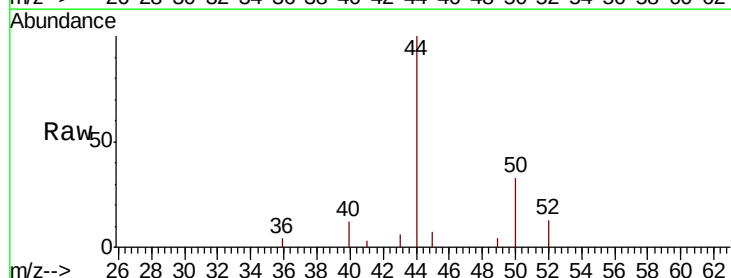
Acq: 31 Aug 2018 14:50

Tgt Ion: 50 Resp: 2101

Ion Ratio Lower Upper

50 100

52 38.8 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.06

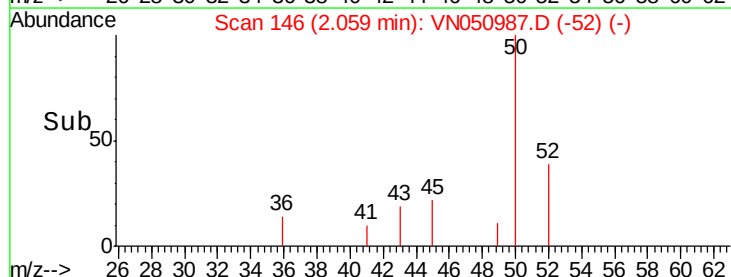
1500

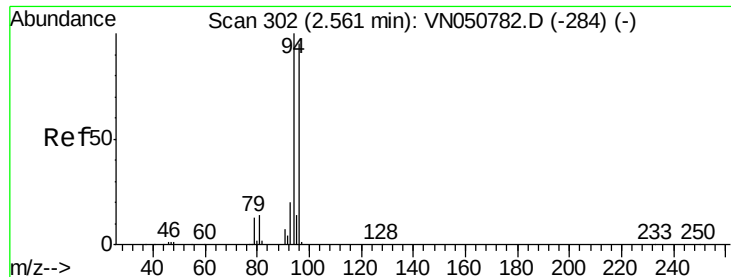
1000

500

0

Time--> 2.02 2.04 2.06 2.08





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN050987.D

Acq: 31 Aug 2018 14:50

Instrument :

MSVOA_N

ClientSampleId :

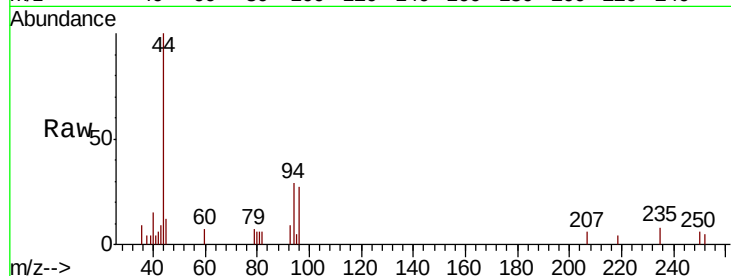
PB112510ZHE#05

Tot Ion: 94 Resp: 2813

Ion Ratio Lower Upper

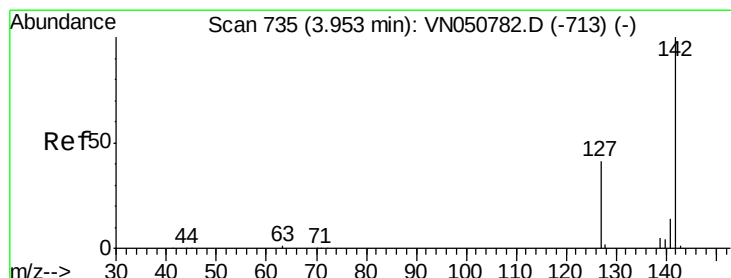
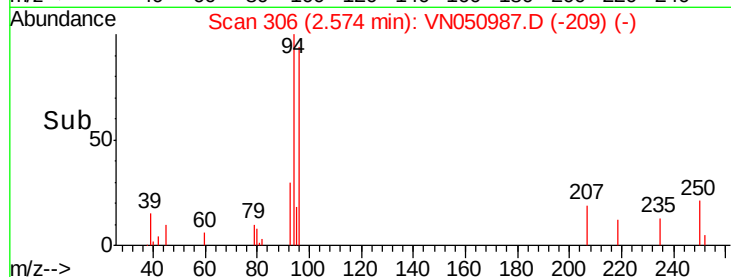
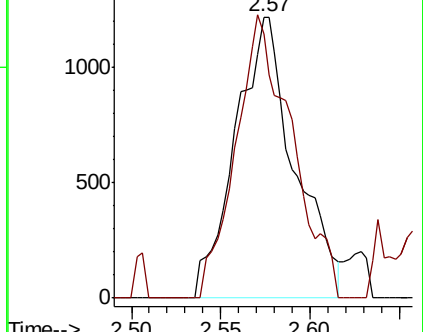
94 100

96 93.8 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN050987.D (-284) (-)

Ion 95.90 (95.60 to 96.60): VN050987.D (-284) (-)



#10

Methyl Iodide

Concen: 6.43 ug/l

RT: 3.96 min Scan# 738

Delta R.T. 0.01 min

Lab File: VN050987.D

Acq: 31 Aug 2018 14:50

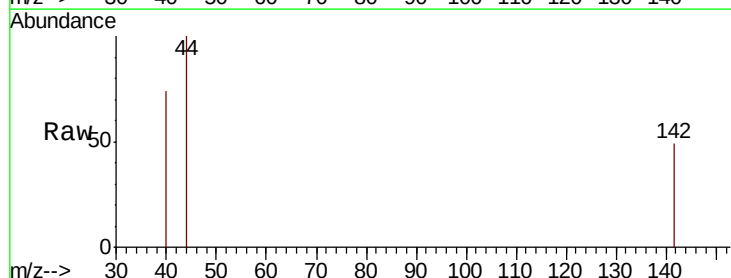
Tgt Ion: 142 Resp: 662

Ion Ratio Lower Upper

142 100

127 0.0 31.7 47.5#

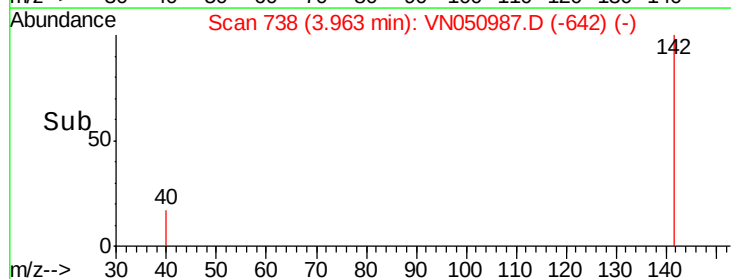
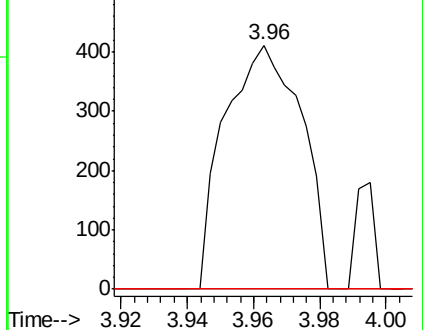
141 0.0 11.4 17.0#

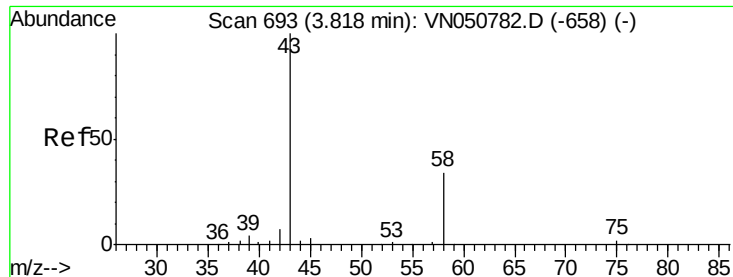


Abundance Ion 141.80 (141.50 to 142.50): VN050987.D (-713) (-)

Ion 126.80 (126.50 to 127.50): VN050987.D (-713) (-)

Ion 140.80 (140.50 to 141.50): VN050987.D (-713) (-)





#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN050987.D

Acq: 31 Aug 2018 14:50

Instrument :

MSVOA_N

ClientSampleId :

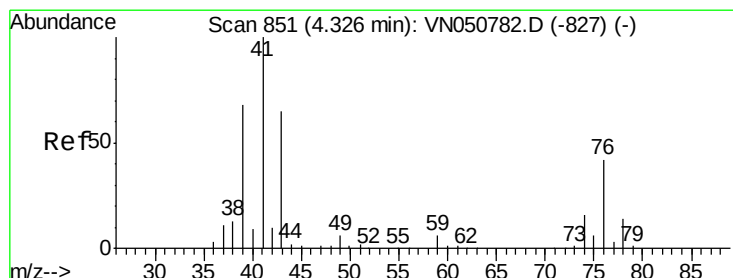
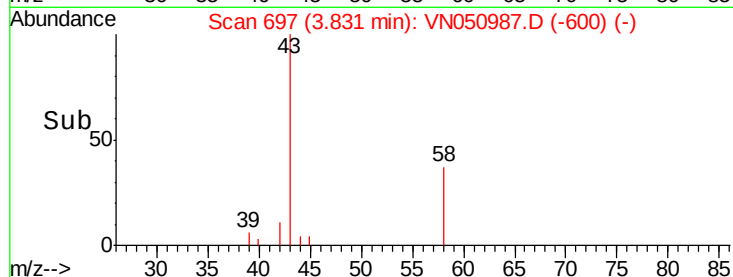
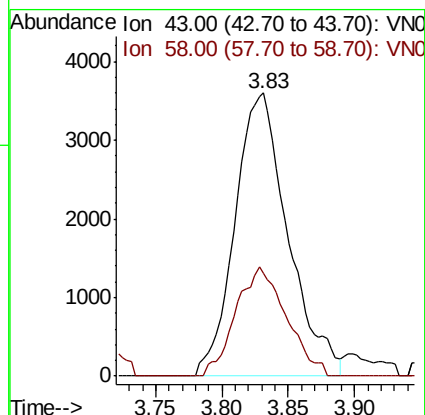
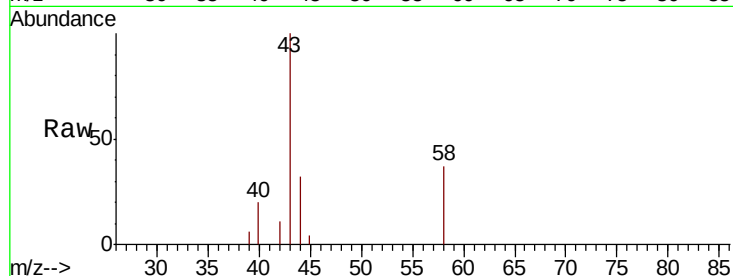
PB112510ZHE#05

Tot Ion: 43 Resp: 10014

Ion Ratio Lower Upper

43 100

58 36.5 27.2 40.8



#18

Methyl Acetate

Concen: 2.08 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN050987.D

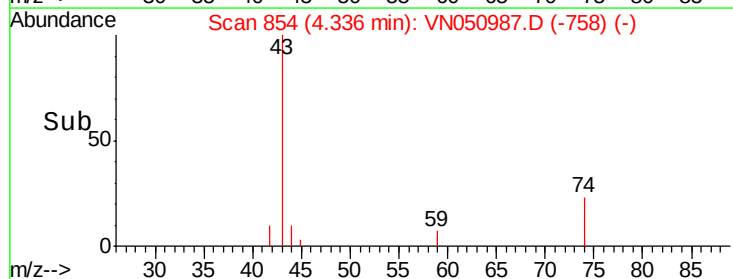
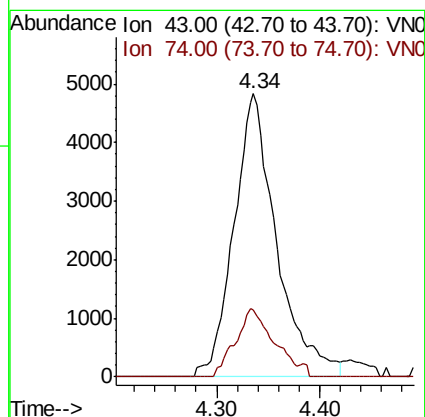
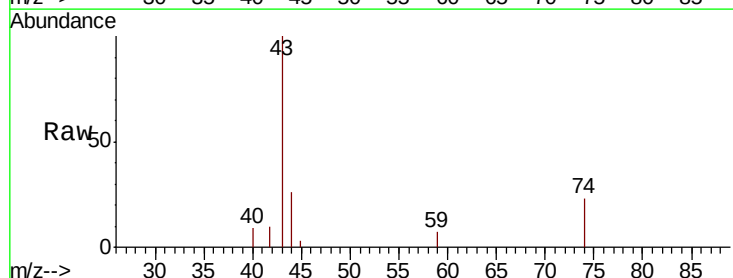
Acq: 31 Aug 2018 14:50

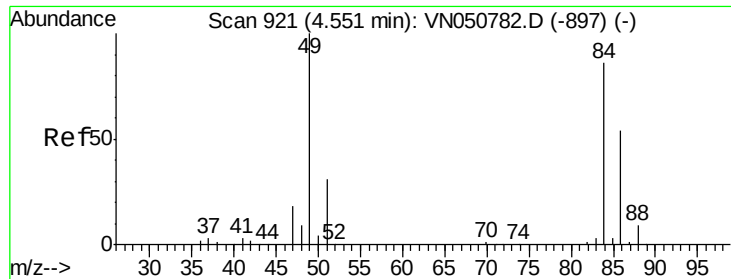
Tgt Ion: 43 Resp: 13887

Ion Ratio Lower Upper

43 100

74 21.4 19.8 29.8

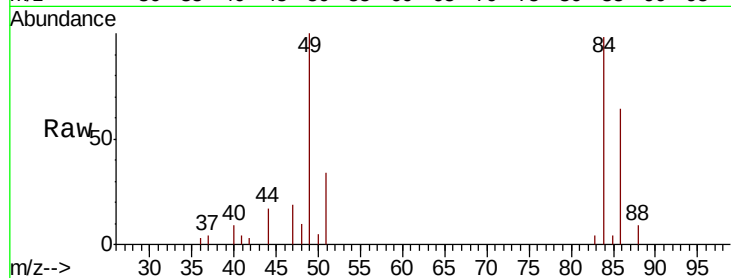




#20
Methylene Chloride
Concen: 2.04 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050987.D
Acq: 31 Aug 2018 14:50

Instrument :
MSVOA_N
ClientSampleId :
PB112510ZHE#05

Tot Ion:	84	Resp:	16317
Ion	Ratio	Lower	Upper
84	100		
49	98.7	93.2	139.8
51	34.1	29.0	43.6
86	64.6	49.8	74.8



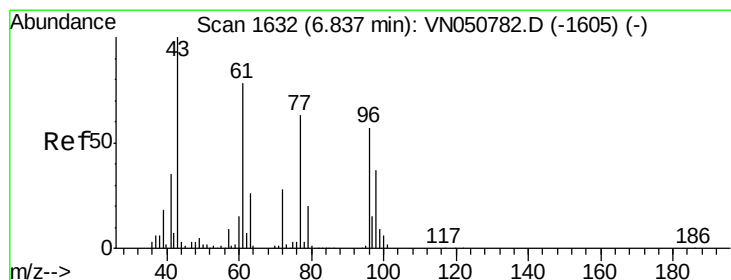
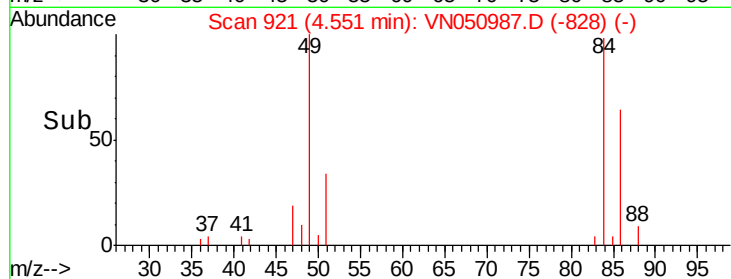
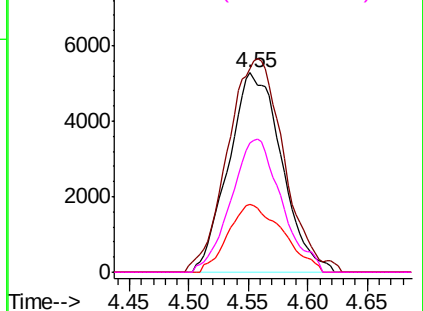
Abundance

Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

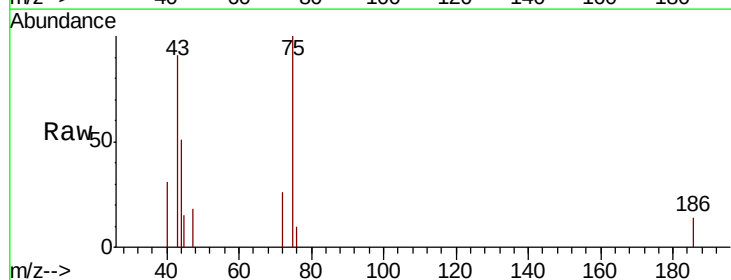
Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO



#25
2-Butanone
Concen: 1.84 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN050987.D
Acq: 31 Aug 2018 14:50

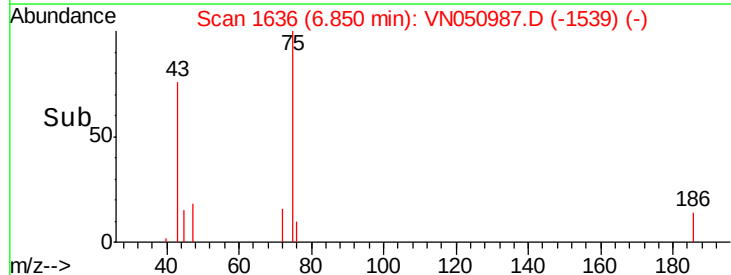
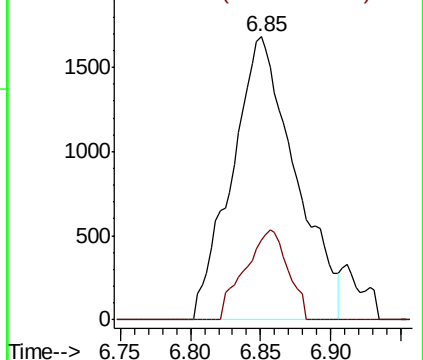
Tgt Ion:	43	Resp:	5262
Ion	Ratio	Lower	Upper
43	100		
72	28.0	22.3	33.5

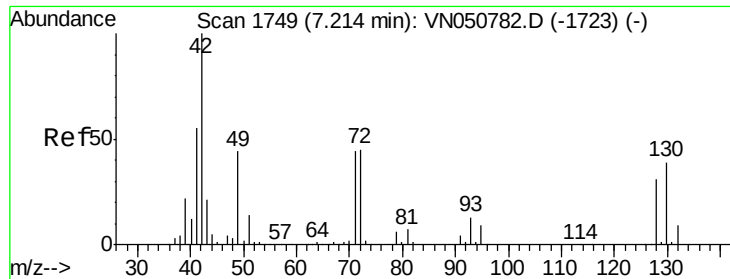


Abundance

Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO





#29

Tetrahydrofuran

Concen: 0.24 ug/l

RT: 7.22 min Scan# 1750

Delta R.T. 0.00 min

Lab File: VN050987.D

Acq: 31 Aug 2018 14:50

Instrument :

MSVOA_N

ClientSampleId :

PB112510ZHE#05

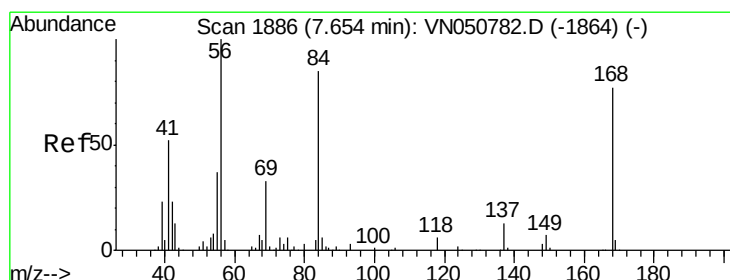
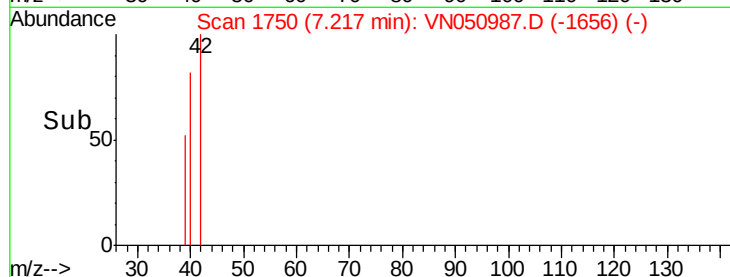
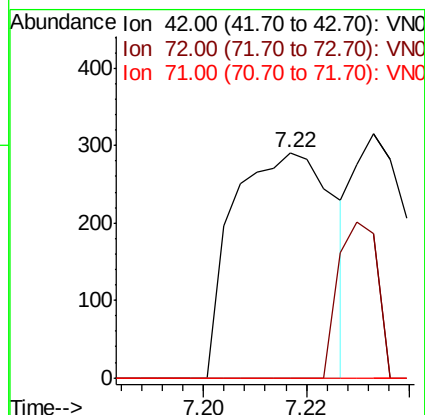
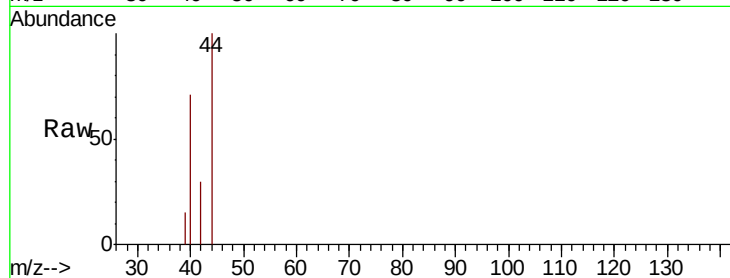
Tot Ion: 42 Resp: 392

Ion Ratio Lower Upper

42 100

72 0.0 35.5 53.3#

71 0.0 33.7 50.5#



#31

Cyclohexane

Concen: 1.30 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050987.D

Acq: 31 Aug 2018 14:50

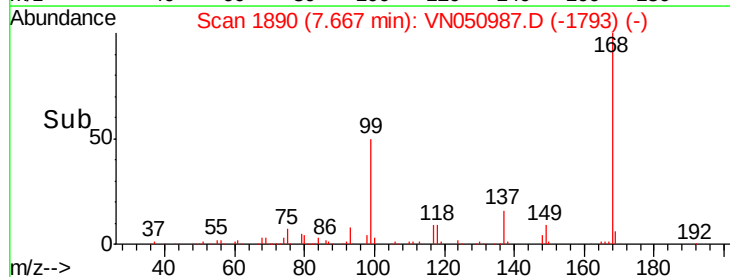
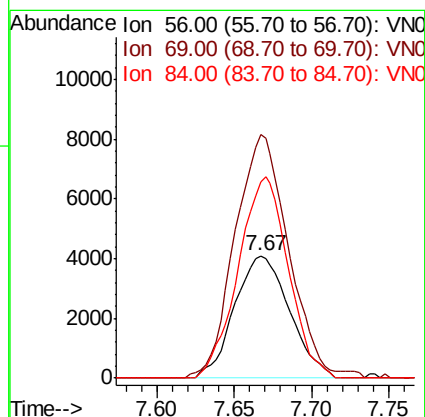
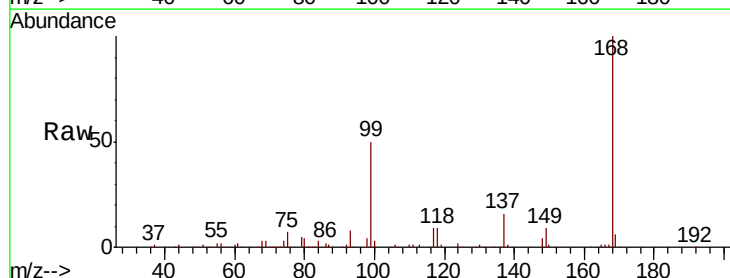
Tgt Ion: 56 Resp: 10122

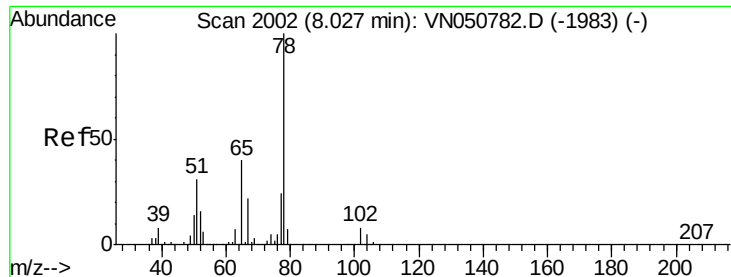
Ion Ratio Lower Upper

56 100

69 195.0 26.2 39.4#

84 159.7 68.3 102.5#

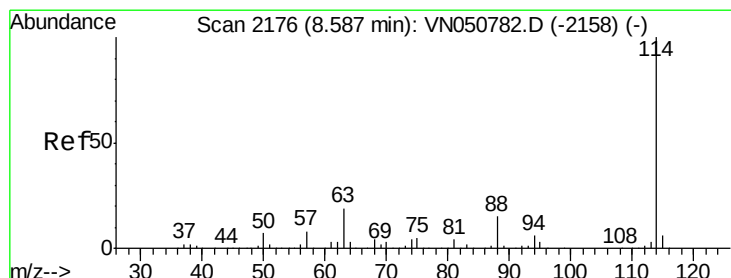
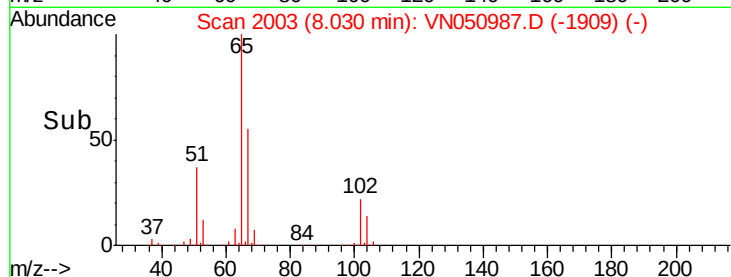
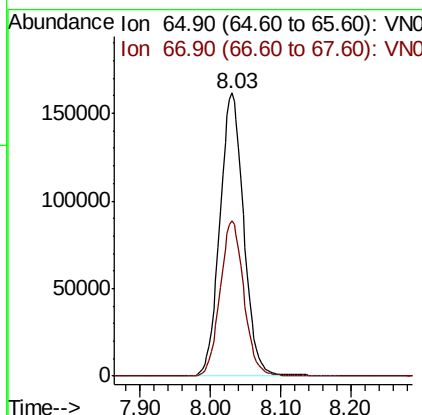
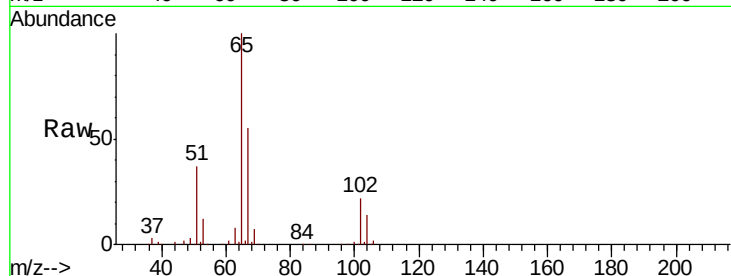




#33
 1,2-Dichloroethane-d4
 Concen: 53.95 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050987.D
 Acq: 31 Aug 2018 14:50

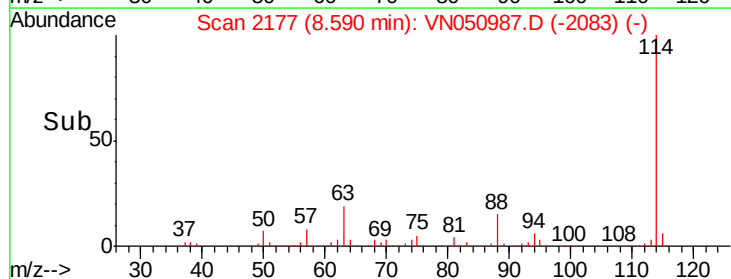
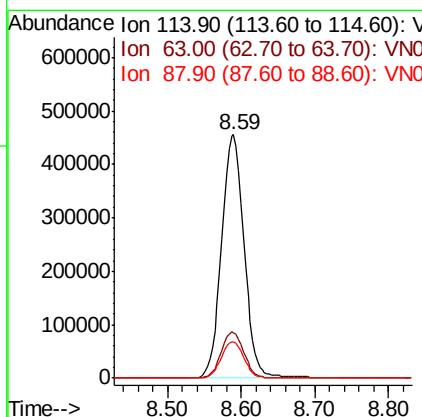
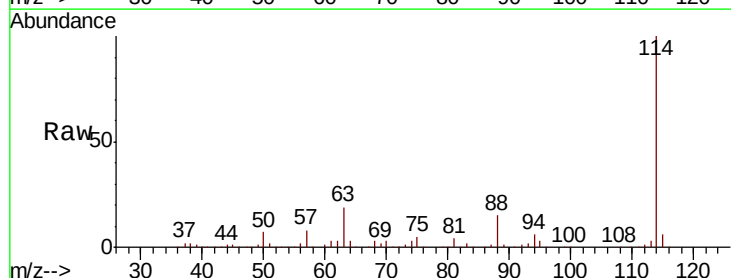
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112510ZHE#05

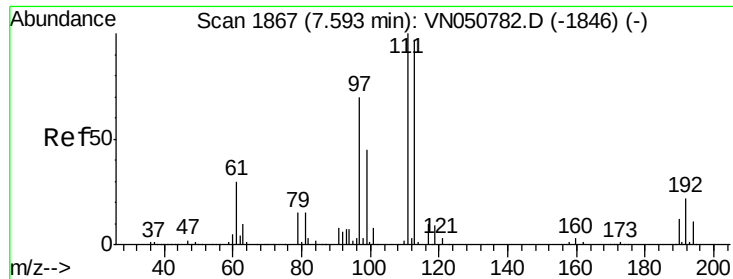
Tot Ion: 65 Resp: 382074
 Ion Ratio Lower Upper
 65 100
 67 54.4 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050987.D
 Acq: 31 Aug 2018 14:50

Tgt Ion: 114 Resp: 969424
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 38.6
 88 15.1 0.0 30.6

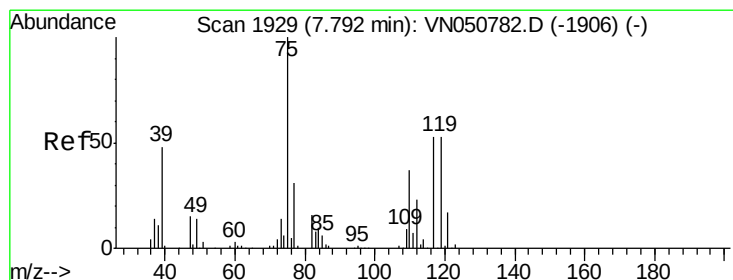
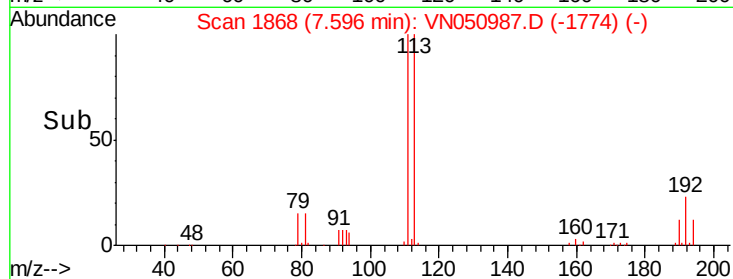
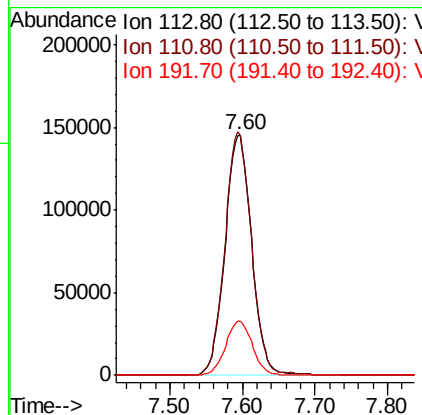
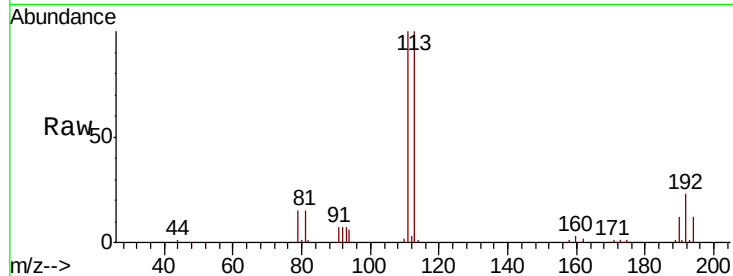




#35
Dibromofluoromethane
Concen: 48.22 ug/l
RT: 7.60 min Scan# 1868
Delta R.T. 0.00 min
Lab File: VN050987.D
Acq: 31 Aug 2018 14:50

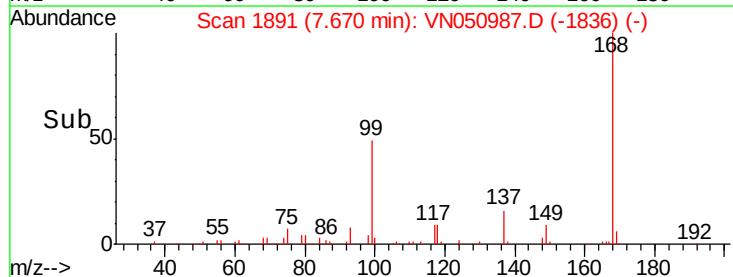
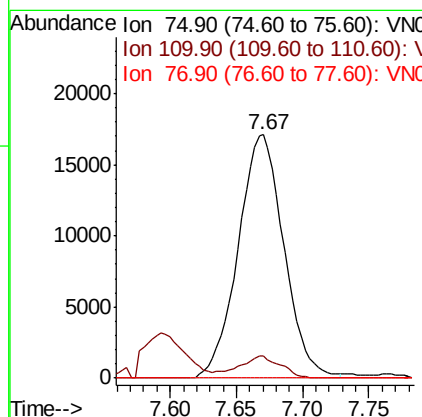
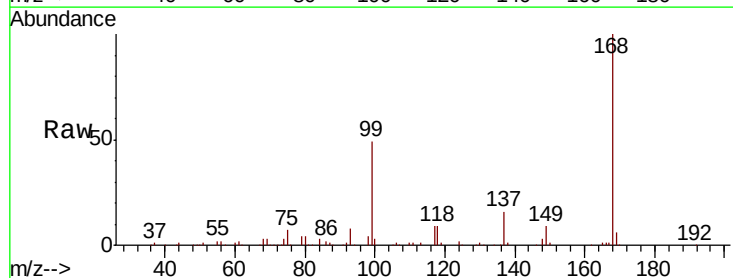
Instrument :
MSVOA_N
ClientSampleId :
PB112510ZHE#05

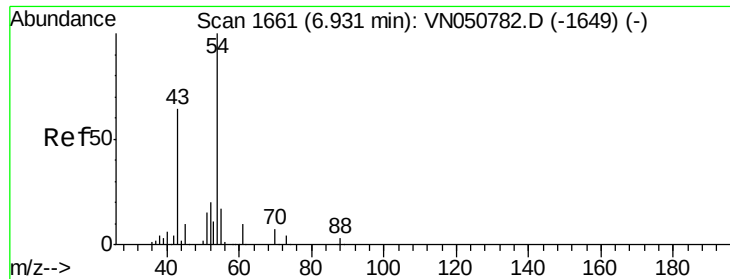
Tot Ion:113 Resp: 371917
Ion Ratio Lower Upper
113 100
111 100.0 82.6 123.8
192 22.6 18.0 27.0



#36
1,1-Dichloropropene
Concen: 3.59 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.12 min
Lab File: VN050987.D
Acq: 31 Aug 2018 14:50

Tgt Ion: 75 Resp: 41070
Ion Ratio Lower Upper
75 100
110 7.9 18.1 54.4#
77 0.0 24.8 37.2#

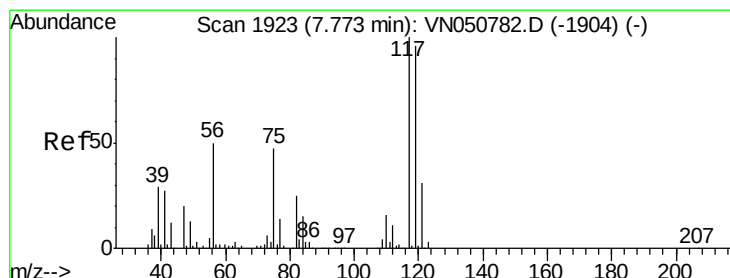
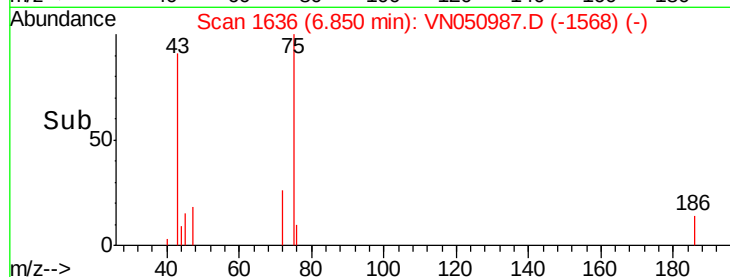
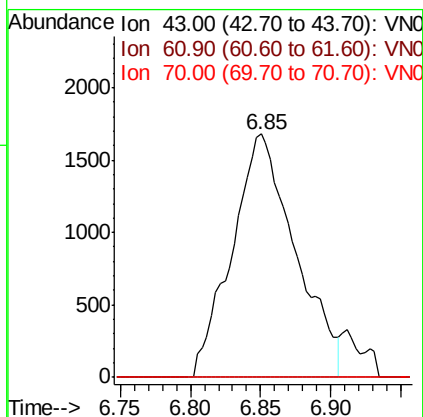
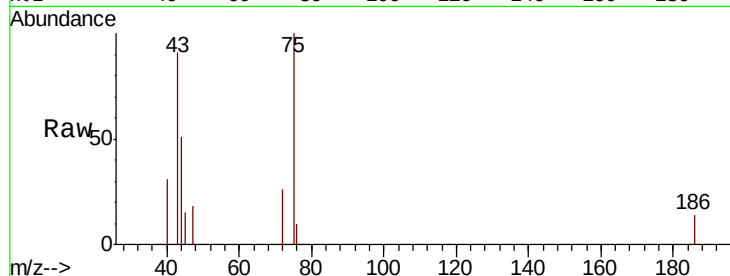




#37
Ethyl Acetate
Concen: 0.80 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. -0.08 min
Lab File: VN050987.D
Acq: 31 Aug 2018 14:50

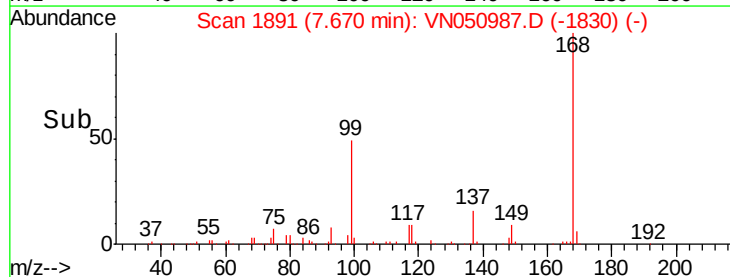
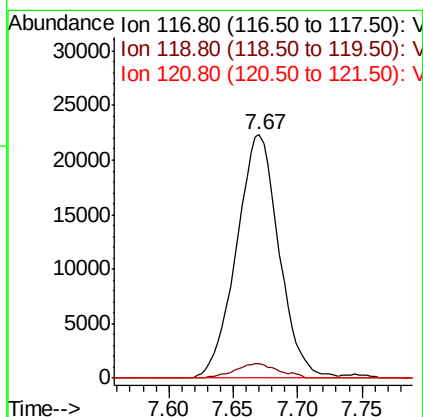
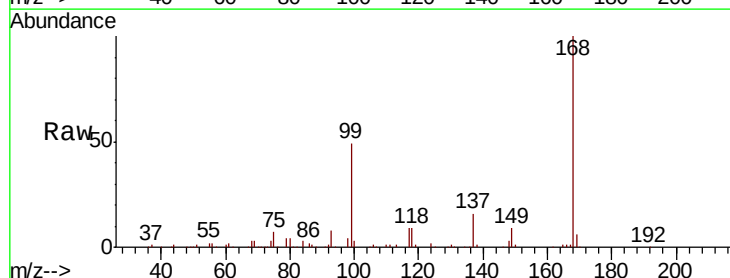
Instrument :
MSVOA_N
ClientSampleId :
PB112510ZHE#05

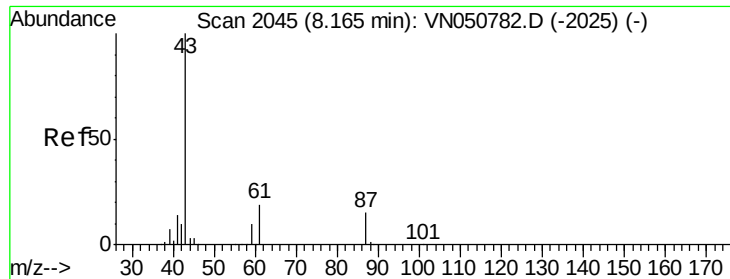
Tot Ion: 43 Resp: 5262
Ion Ratio Lower Upper
43 100
61 0.0 12.0 18.0#
70 0.0 8.6 13.0#



#38
Carbon Tetrachloride
Concen: 4.44 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.10 min
Lab File: VN050987.D
Acq: 31 Aug 2018 14:50

Tgt Ion: 117 Resp: 51341
Ion Ratio Lower Upper
117 100
119 5.9 76.3 114.5#
121 0.0 24.6 36.8#





#43

Isopropyl Acetate

Concen: 22.32 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050987.D

Acq: 31 Aug 2018 14:50

Instrument :

MSVOA_N

ClientSampleId :

PB112510ZHE#05

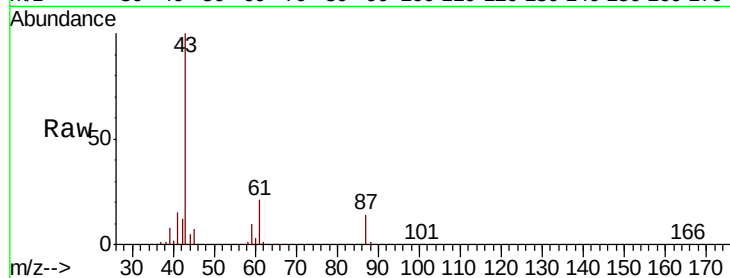
Tot Ion: 43 Resp: 252177

Ion Ratio Lower Upper

43 100

61 18.9 17.5 26.3

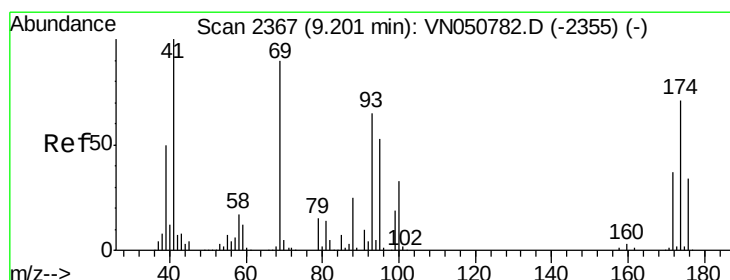
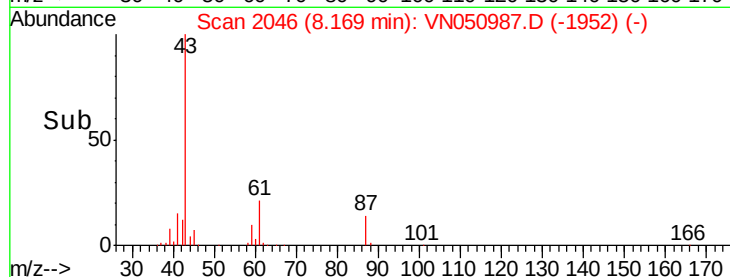
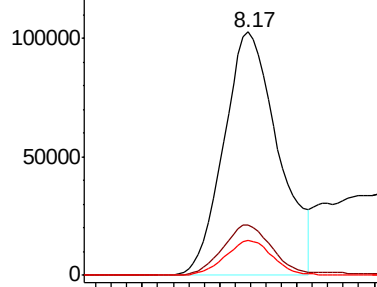
87 12.4 11.3 16.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#48

Methyl methacrylate

Concen: 1.31 ug/l

RT: 9.18 min Scan# 2362

Delta R.T. -0.02 min

Lab File: VN050987.D

Acq: 31 Aug 2018 14:50

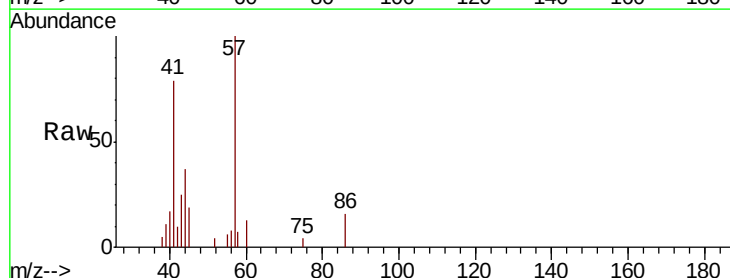
Tgt Ion: 41 Resp: 7527

Ion Ratio Lower Upper

41 100

69 0.0 74.7 112.1#

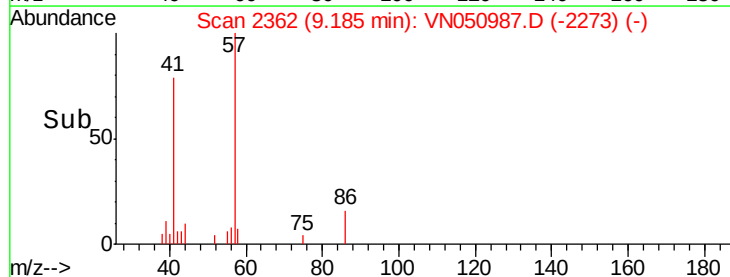
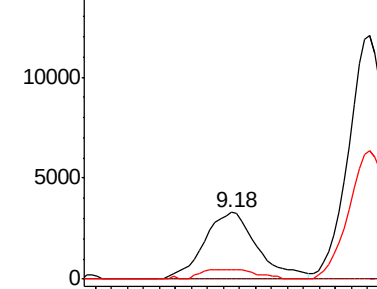
39 15.0 42.2 63.2#

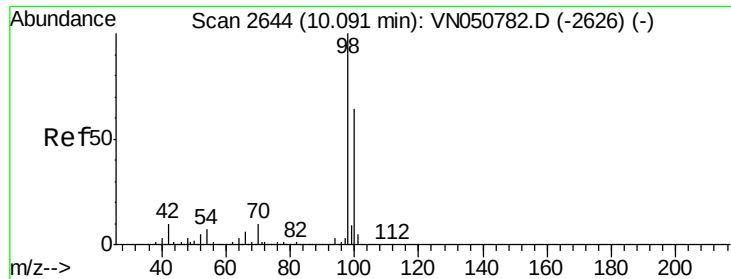


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

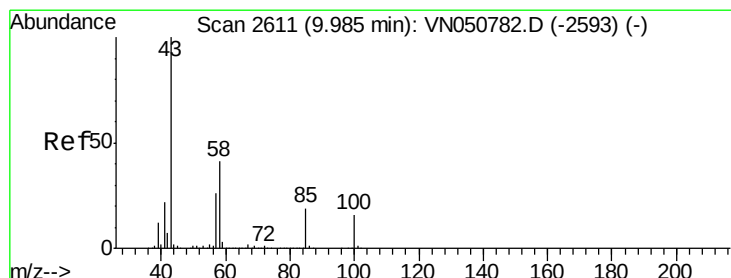
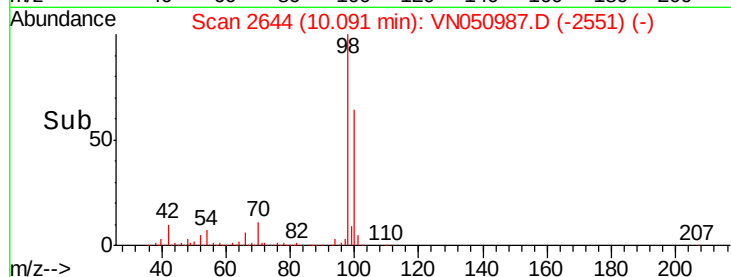
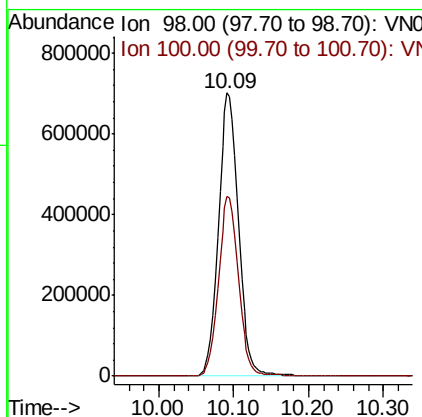
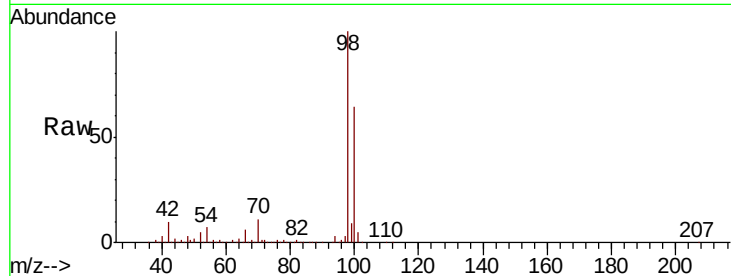




#50
Toluene-d8
Concen: 45.18 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050987.D
Acq: 31 Aug 2018 14:50

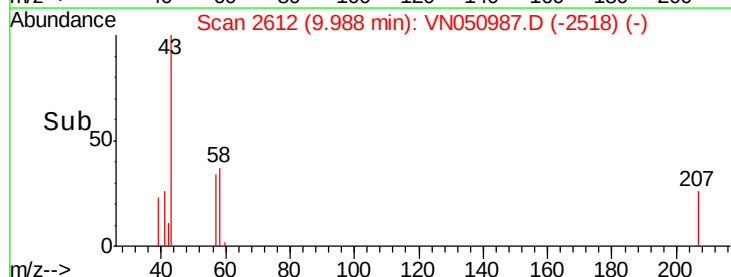
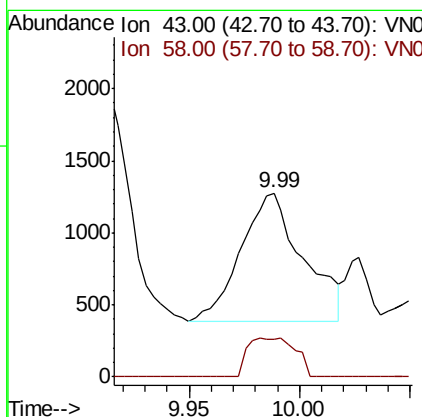
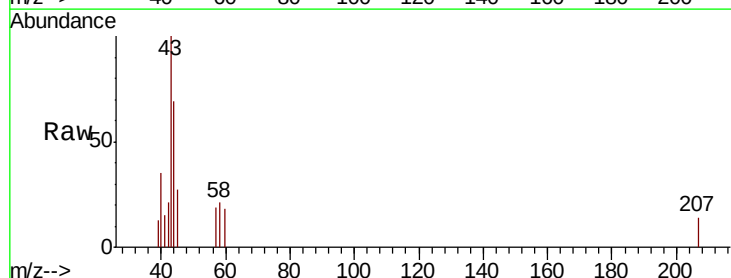
Instrument :
MSVOA_N
ClientSampleId :
PB112510ZHE#05

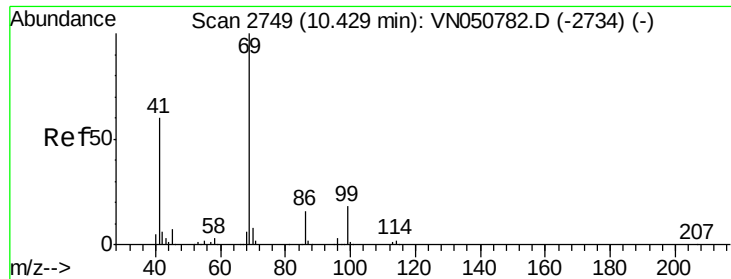
Tot Ion: 98 Resp: 1302658
Ion Ratio Lower Upper
98 100
100 63.3 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 0.26 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN050987.D
Acq: 31 Aug 2018 14:50

Tgt Ion: 43 Resp: 1735
Ion Ratio Lower Upper
43 100
58 23.2 32.4 48.6#





#56

Ethyl methacrylate

Concen: 2.51 ug/l

RT: 10.23 min Scan# 2686

Delta R.T. -0.20 min

Lab File: VN050987.D

Acq: 31 Aug 2018 14:50

Instrument :

MSVOA_N

ClientSampleId :

PB112510ZHE#05

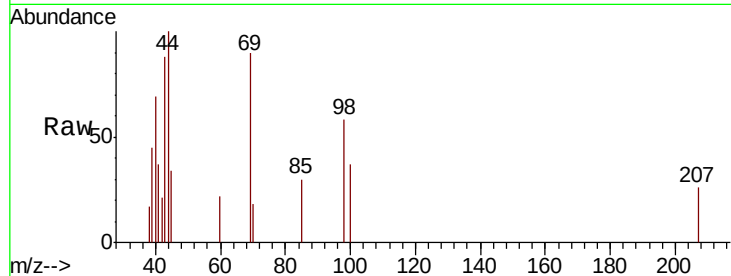
Tot Ion: 69 Resp: 1685

Ion Ratio Lower Upper

69 100

41 7.1 48.3 72.5#

39 51.0 24.0 36.0#

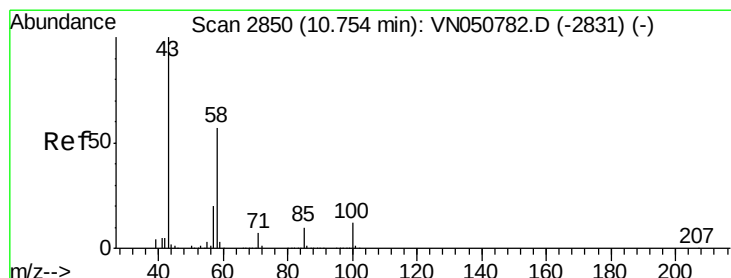
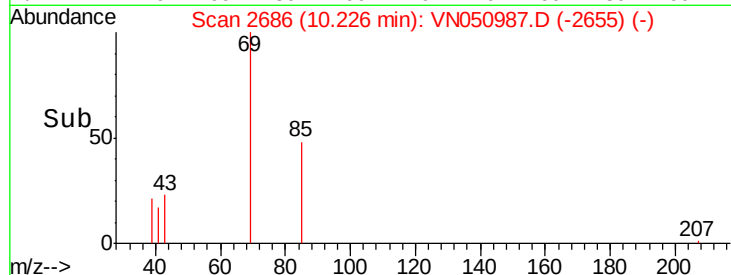
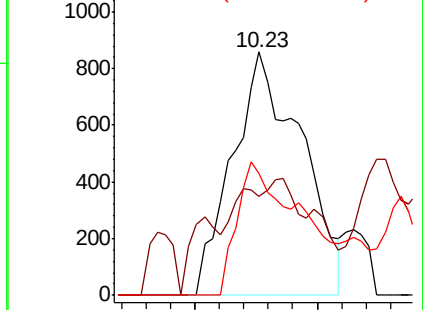


Abundance

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: 3.70 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050987.D

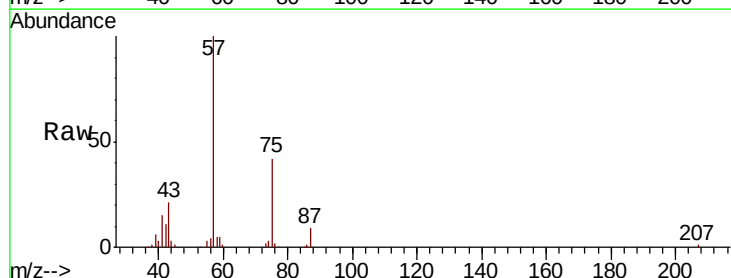
Acq: 31 Aug 2018 14:50

Tgt Ion: 43 Resp: 16597

Ion Ratio Lower Upper

43 100

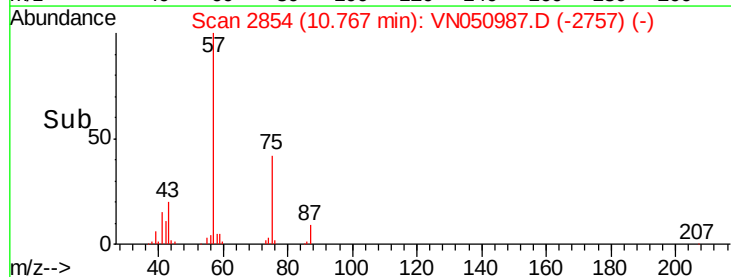
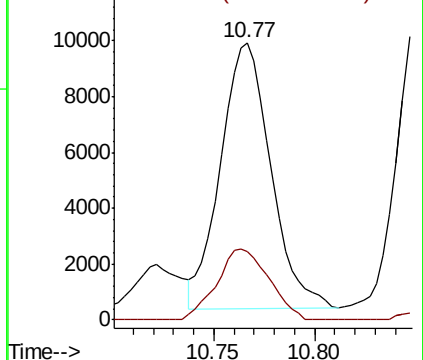
58 27.6 28.3 85.0#

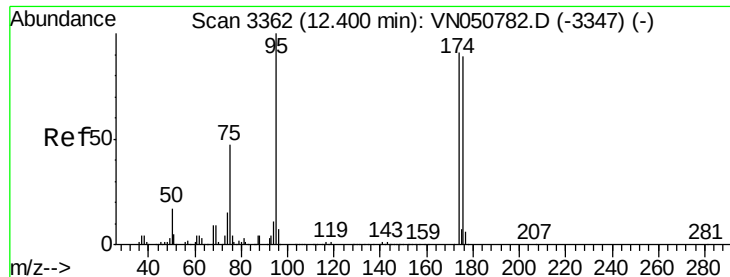


Abundance

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 35.19 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050987.D

Acq: 31 Aug 2018 14:50

Instrument :

MSVOA_N

ClientSampleId :

PB112510ZHE#05

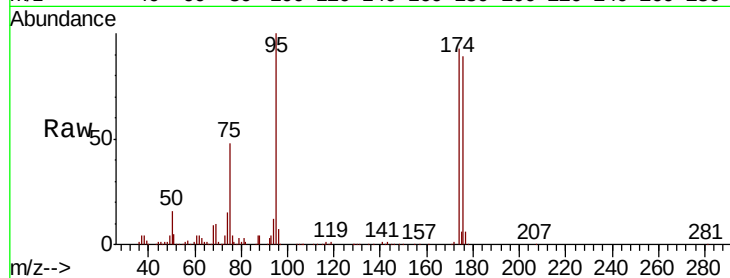
Tot Ion: 95 Resp: 337166

Ion Ratio Lower Upper

95 100

174 93.7 0.0 183.0

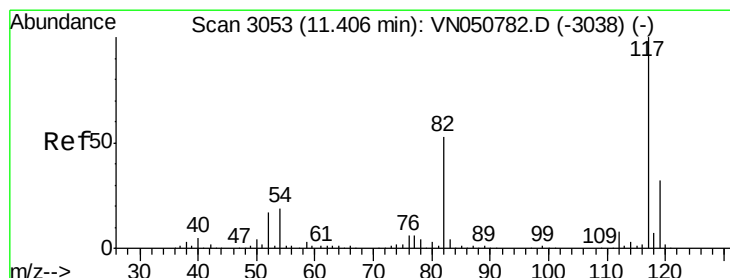
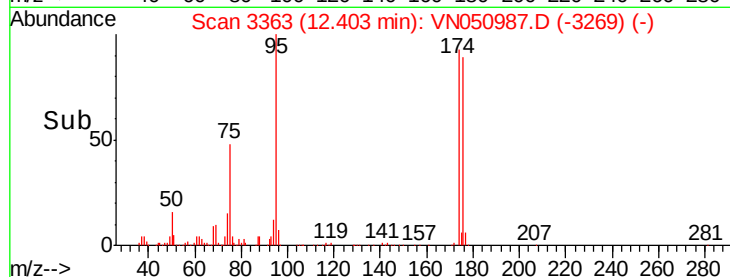
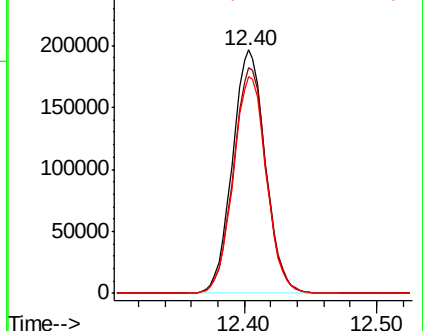
176 89.9 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN050987.D

Acq: 31 Aug 2018 14:50

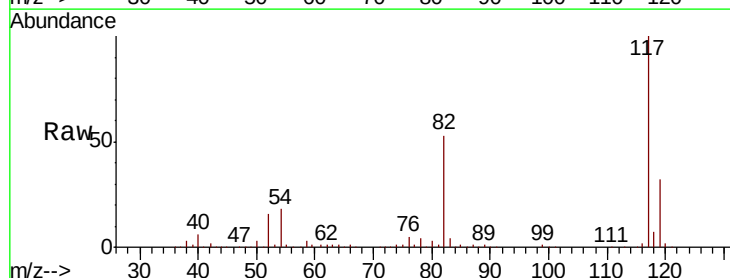
Tgt Ion: 117 Resp: 804892

Ion Ratio Lower Upper

117 100

82 52.8 42.6 64.0

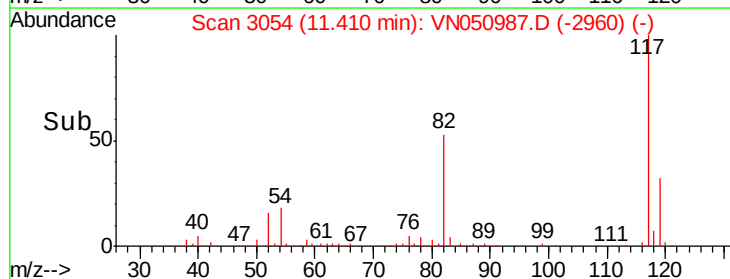
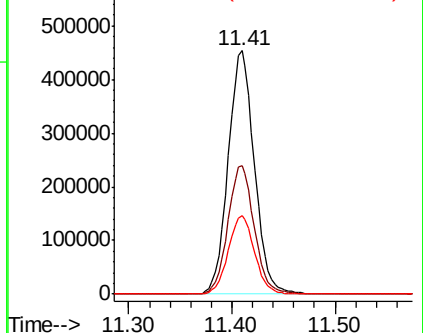
119 32.1 25.8 38.6

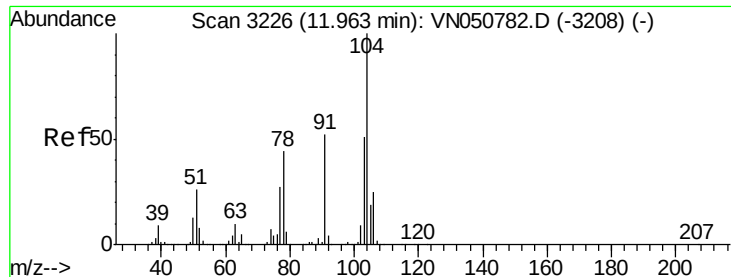


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#70

Stvrene

Concen: 1.27 ug/l

RT: 11.97 min Scan# 3229

Delta R.T. 0.01 min

Lab File: VN050987.D

Acq: 31 Aug 2018 14:50

Instrument :

MSVOA_N

ClientSampleId :

PB112510ZHE#05

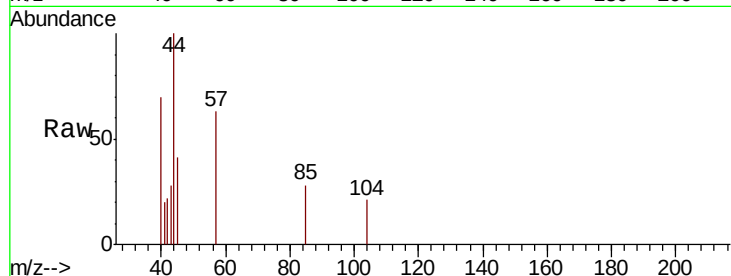
Tot Ion:104 Resp: 69

Ion Ratio Lower Upper

104 100

78 0.0 38.2 57.4#

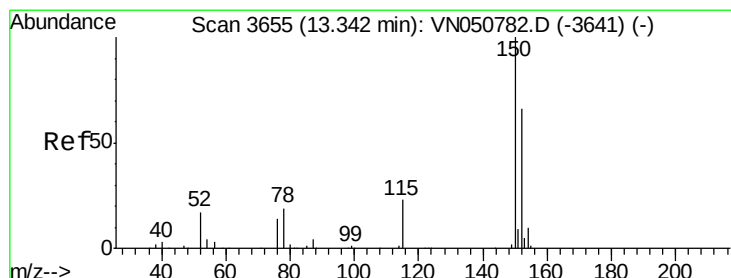
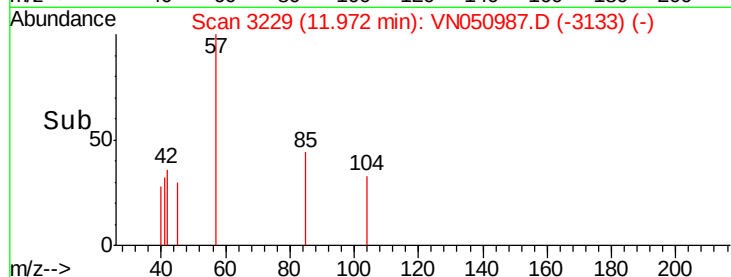
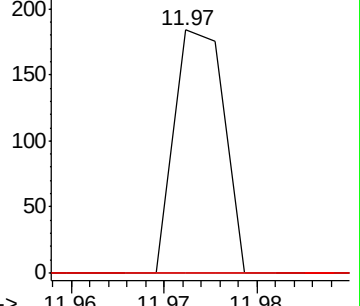
103 0.0 44.4 66.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): 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: VN050987.D

Acq: 31 Aug 2018 14:50

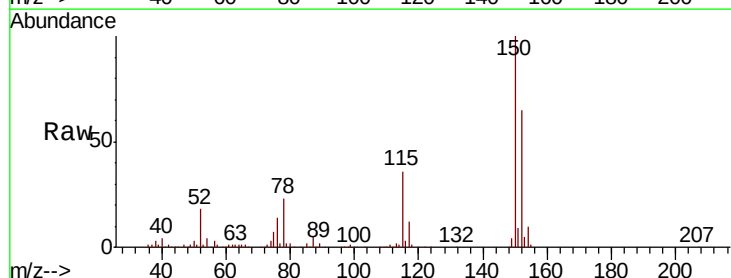
Tgt Ion:152 Resp: 257015

Ion Ratio Lower Upper

152 100

115 54.6 27.8 83.4

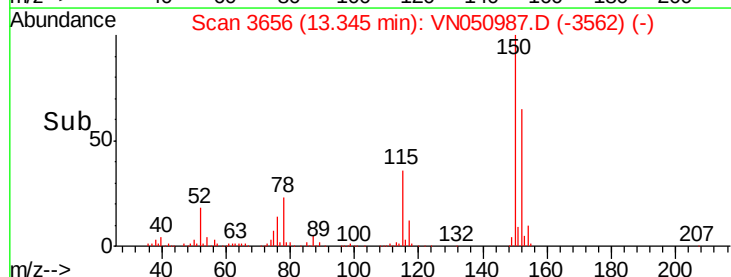
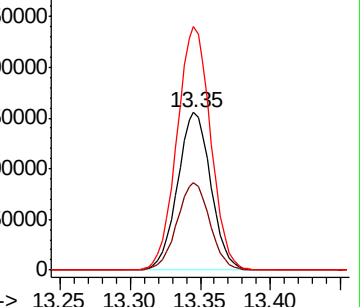
150 156.6 0.0 351.4

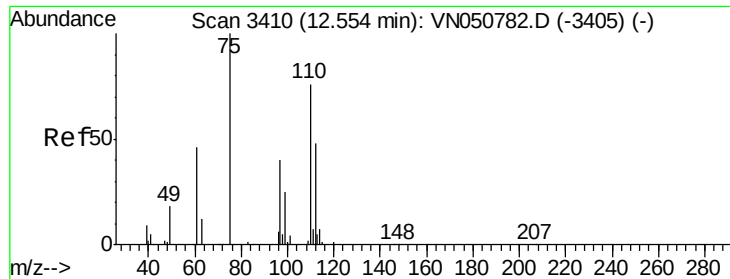


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 35.40 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050987.D

Acq: 31 Aug 2018 14:50

Instrument :

MSVOA_N

ClientSampleId :

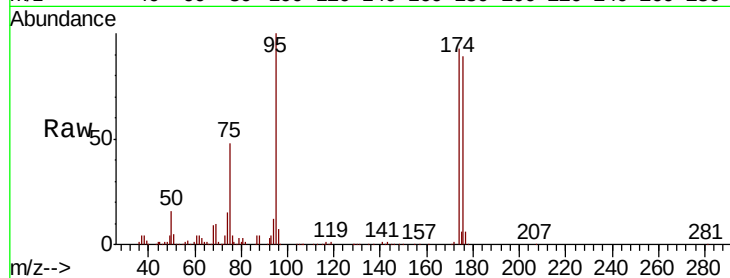
PB112510ZHE#05

Tot Ion: 75 Resp: 159336

Ion Ratio Lower Upper

75 100

77 1.1 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

100000

80000

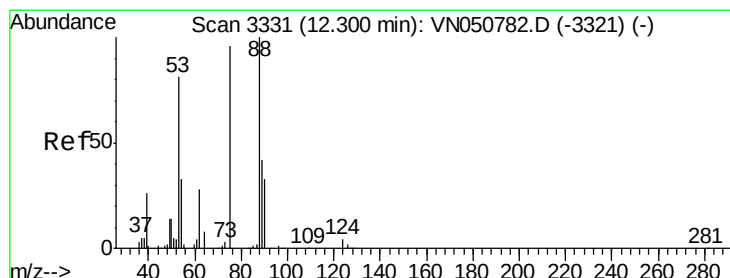
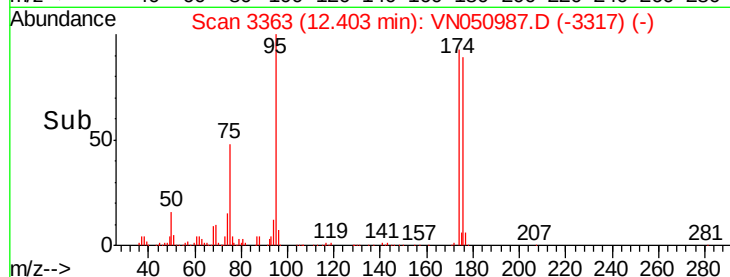
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 119.66 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050987.D

Acq: 31 Aug 2018 14:50

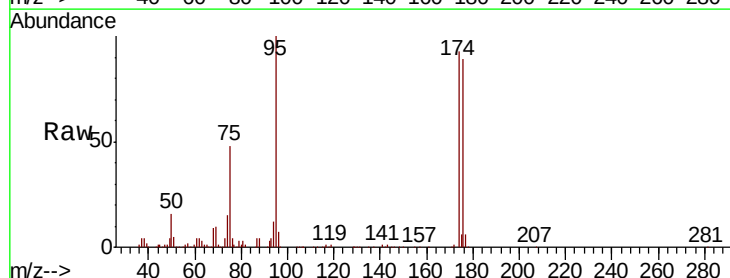
Tgt Ion: 75 Resp: 159336

Ion Ratio Lower Upper

75 100

53 0.1 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

120000

100000

80000

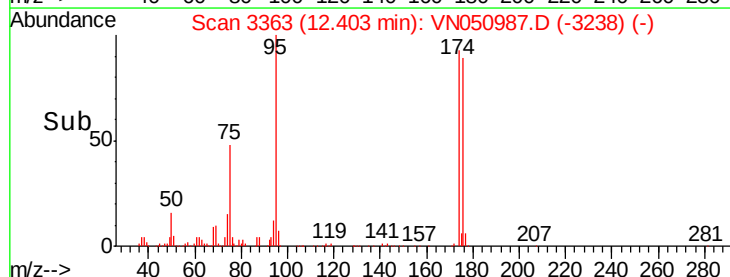
60000

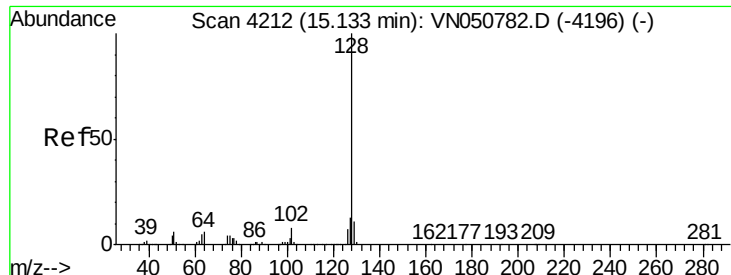
40000

20000

0

Time-->

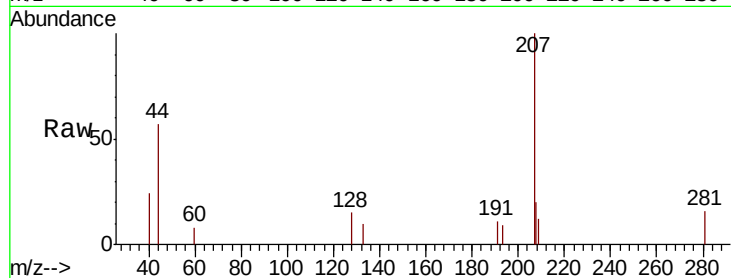




#95
 Naphthalene
 Concen: 5.44 ug/l
 RT: 15.13 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN050987.D
 Acq: 31 Aug 2018 14:50

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112510ZHE#05

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	0.0	8.7	13.1#



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

