

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082818\
 Data File : VN050927.D
 Acq On : 28 Aug 2018 21:06
 Operator : MD\SY
 Sample : PB112421ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112421ZHE#05

Quant Time: Aug 29 03:56:20 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	595817	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	979873	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	803539	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	254673	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	389515	54.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.60%	
35) Dibromofluoromethane	7.59	113	375899	48.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.44%	
50) Toluene-d8	10.09	98	1311192	44.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.98%	
62) 4-Bromofluorobenzene	12.40	95	339764	35.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	70.16%	

Target Compounds

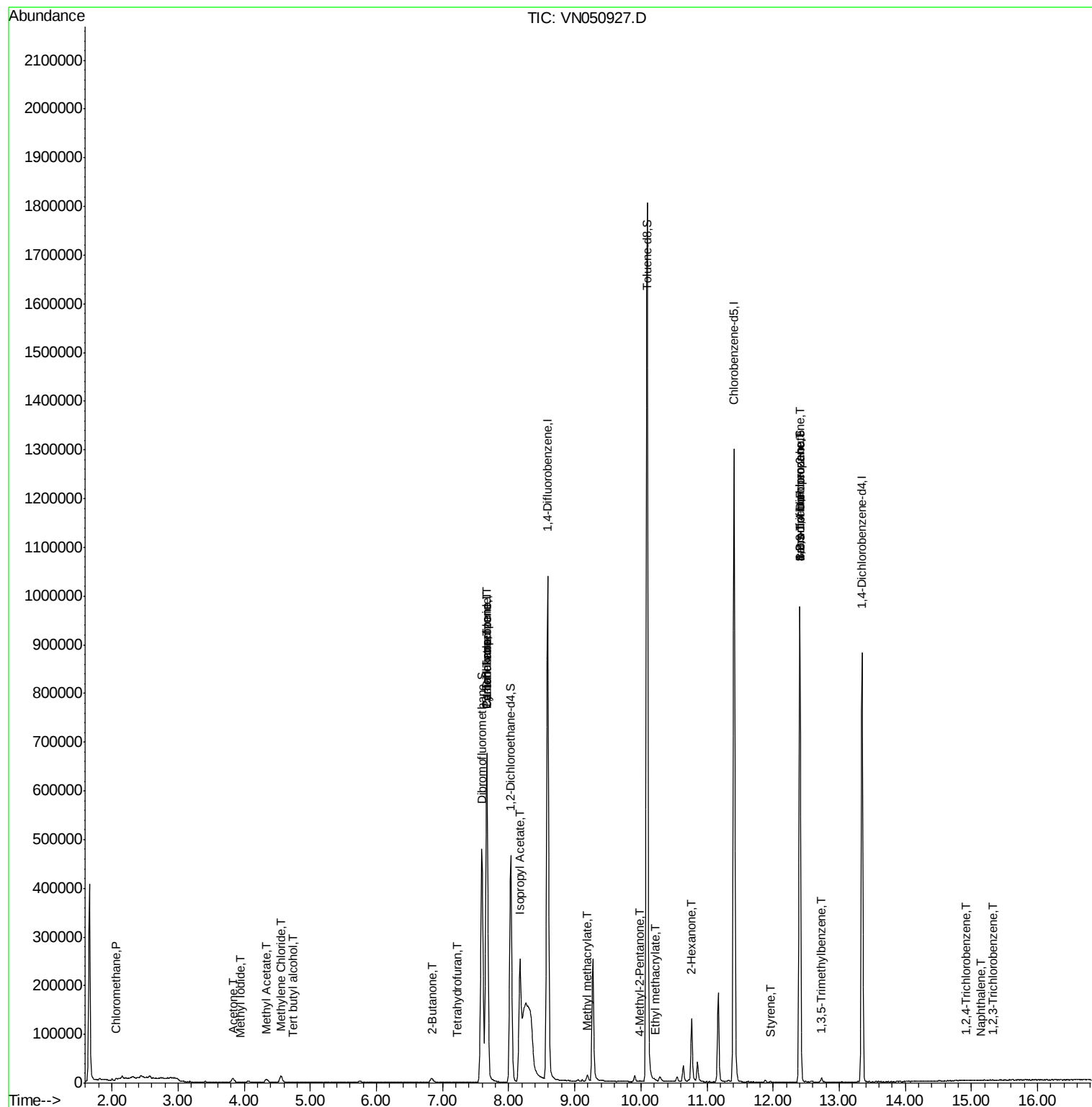
						Qvalue
3) Chloromethane	2.06	50	2071	0.21	ug/l	100
5) Bromomethane	2.57	94	2324	Below	Cal	86
10) Methyl Iodide	3.95	142	834	6.45	ug/l #	57
11) Tert butyl alcohol	4.74	59	501	1.10	ug/l #	72
16) Acetone	3.83	43	15991	2.42	ug/l	93
18) Methyl Acetate	4.33	43	13714	2.02	ug/l	99
20) Methylene Chloride	4.56	84	10697	1.32	ug/l	97
25) 2-Butanone	6.85	43	2404	0.83	ug/l	90
29) Tetrahydrofuran	7.23	42	431	0.26	ug/l #	33
31) Cyclohexane	7.67	56	10222	1.30	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	40181	3.47	ug/l #	48
38) Carbon Tetrachloride	7.67	117	53678	4.59	ug/l #	16
43) Isopropyl Acetate	8.17	43	329350	28.84	ug/l #	91
48) Methyl methacrylate	9.18	41	6879	1.18	ug/l #	21
51) 4-Methyl-2-Pentanone	9.99	43	2255	0.33	ug/l #	69
56) Ethyl methacrylate	10.23	69	2004	2.54	ug/l #	41
59) 2-Hexanone	10.77	43	17124	3.77	ug/l #	58
70) Styrene	11.96	104	260	1.28	ug/l #	84
71) Bromoform	12.40	173	1155	0.22	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	156693	35.13	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4008	0.24	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	156693	118.75	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	102	4.10	ug/l #	15
95) Naphthalene	15.13	128	209	5.42	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	30	3.30	ug/l #	84

(#) = 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: VN050927.D

Acq: 28 Aug 2018 21:06

Instrument :

MSVOA_N

ClientSampleId :

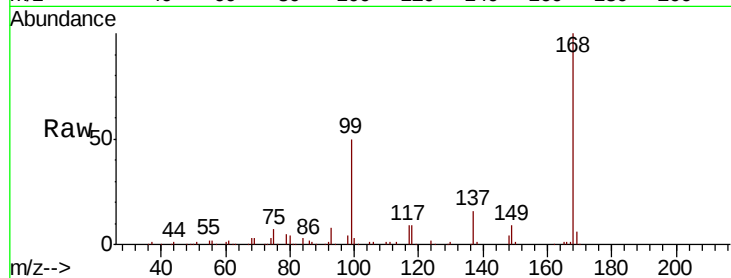
PB112421ZHE#05

Tot Ion:168 Resp: 595817

Ion Ratio Lower Upper

168 100

99 49.9 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): VN050927.D (-1797) (-)

Ion 98.90 (98.60 to 99.60): VN050927.D (-1797) (-)

7.67

250000

200000

150000

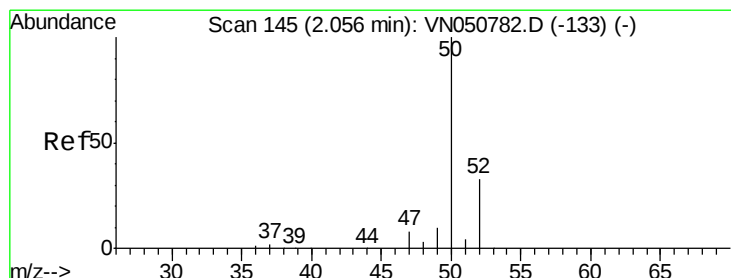
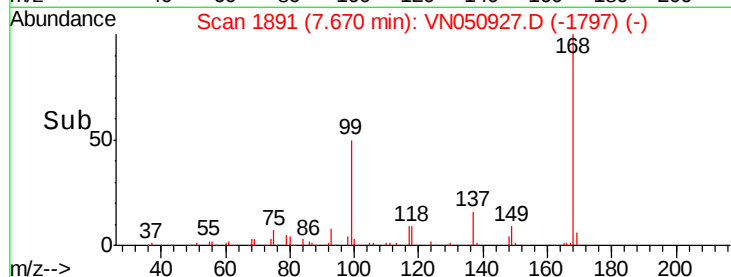
100000

50000

0

7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: 0.21 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050927.D

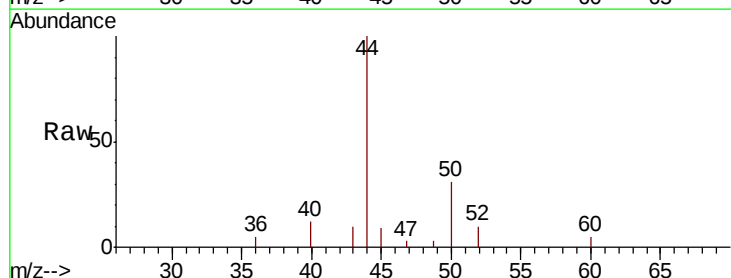
Acq: 28 Aug 2018 21:06

Tgt Ion: 50 Resp: 2071

Ion Ratio Lower Upper

50 100

52 32.7 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN050927.D (-52) (-)

Ion 51.90 (51.60 to 52.60): VN050927.D (-52) (-)

2.06

2000

1500

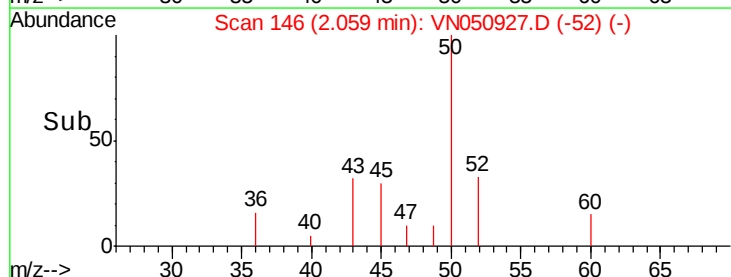
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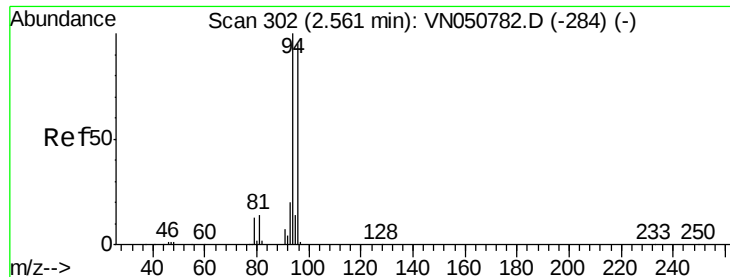
500

0

2.02 2.04 2.06 2.08 2.10

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050927.D

Acq: 28 Aug 2018 21:06

Instrument :

MSVOA_N

ClientSampleId :

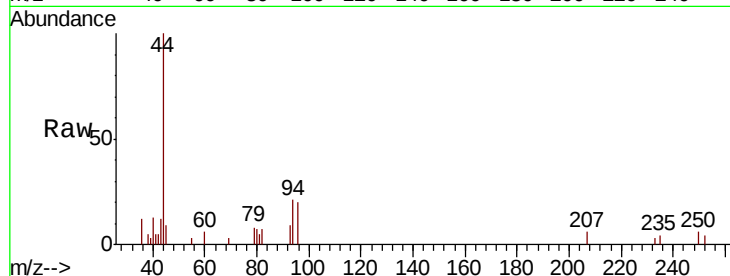
PB112421ZHE#05

Tot Ion: 94 Resp: 2324

Ion Ratio Lower Upper

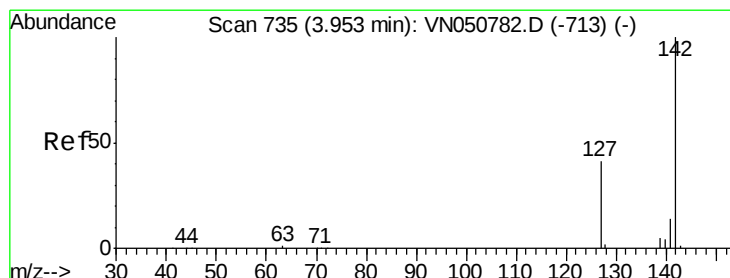
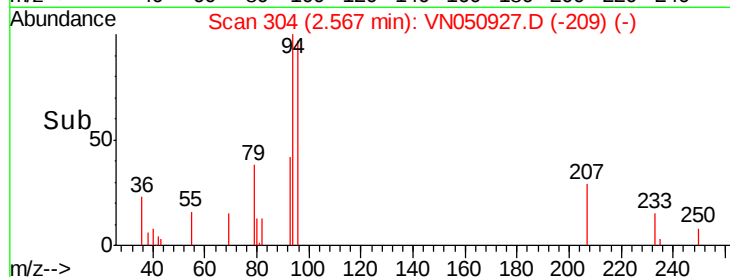
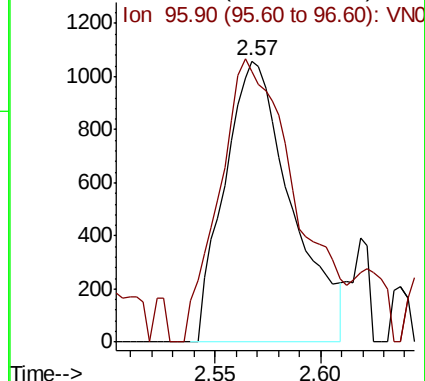
94 100

96 81.9 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN050927.D (-284) (-)

Ion 95.90 (95.60 to 96.60): VN050927.D (-284) (-)



#10

Methyl Iodide

Concen: 6.45 ug/l

RT: 3.95 min Scan# 734

Delta R.T. -0.00 min

Lab File: VN050927.D

Acq: 28 Aug 2018 21:06

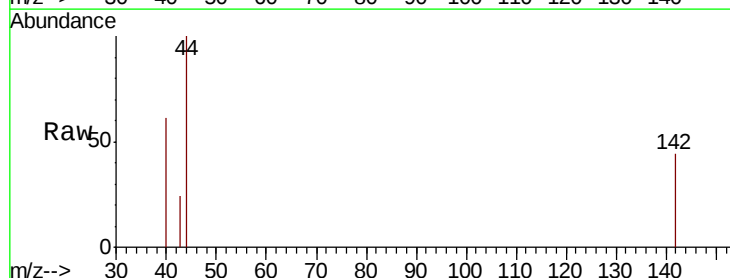
Tgt Ion: 142 Resp: 834

Ion Ratio Lower Upper

142 100

127 11.5 31.7 47.5#

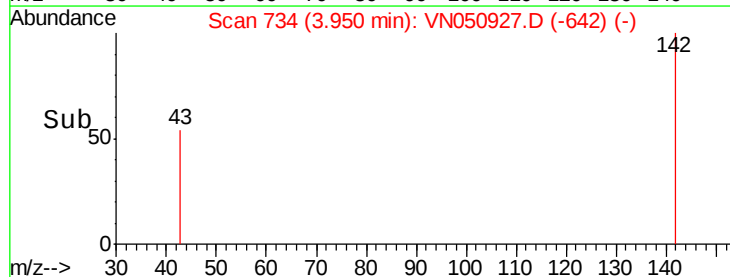
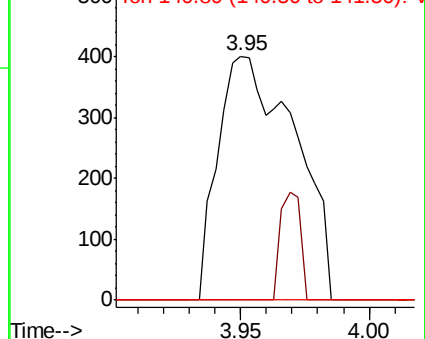
141 0.0 11.4 17.0#

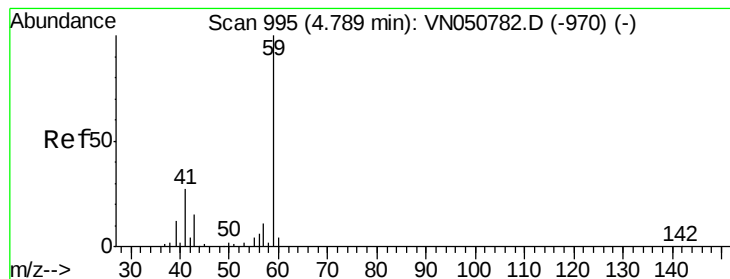


Abundance Ion 141.80 (141.50 to 142.50): VN050927.D (-713) (-)

Ion 126.80 (126.50 to 127.50): VN050927.D (-713) (-)

Ion 140.80 (140.50 to 141.50): VN050927.D (-713) (-)



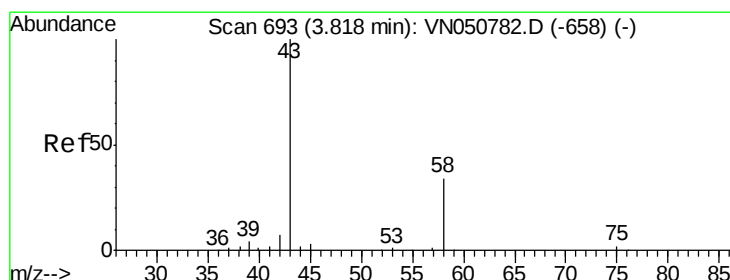
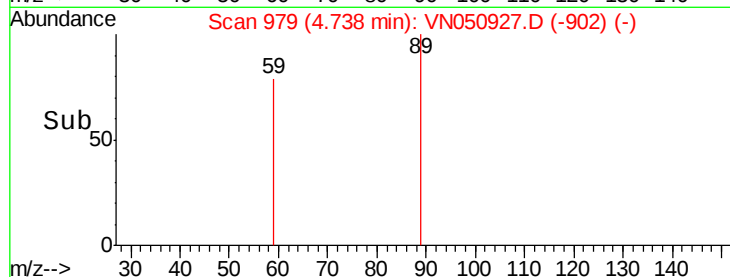
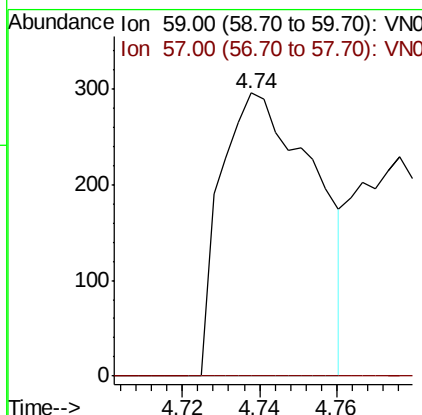
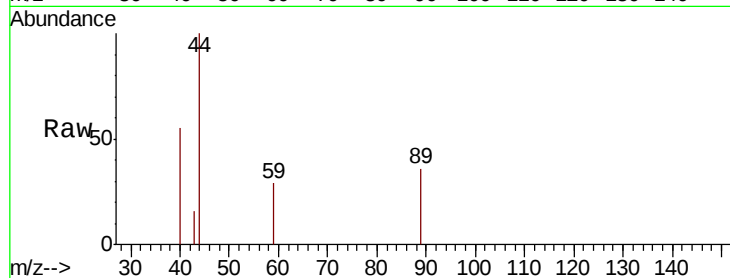


#11

Tert butyl alcohol
 Concen: 1.10 ug/l
 RT: 4.74 min Scan# 979
 Delta R.T. -0.05 min
 Lab File: VN050927.D
 Acq: 28 Aug 2018 21:06

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112421ZHE#05

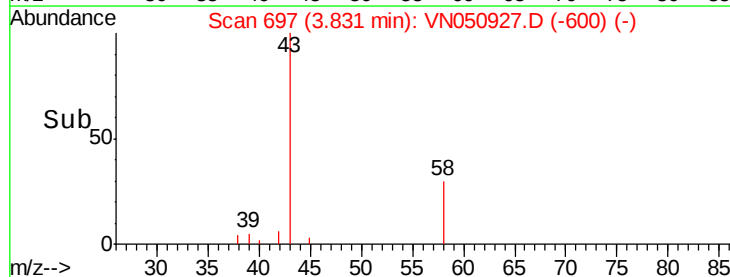
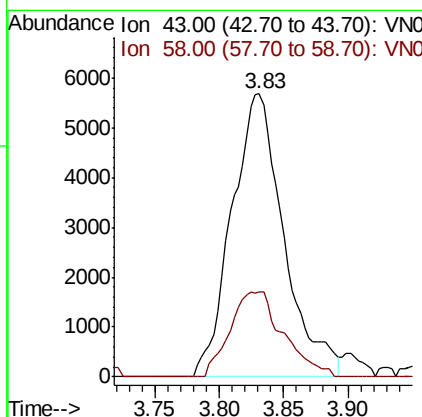
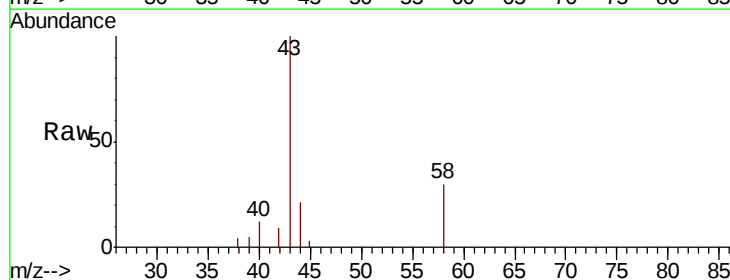
Tot Ion: 59 Resp: 501
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

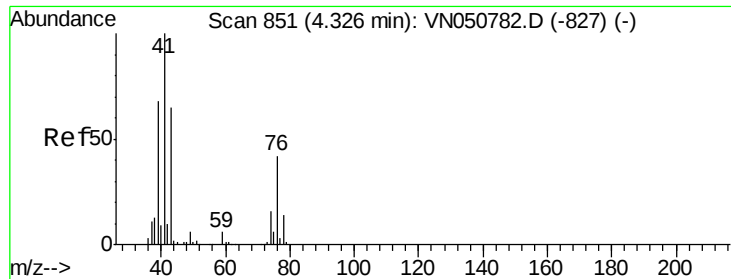


#16

Acetone
 Concen: 2.42 ug/l
 RT: 3.83 min Scan# 697
 Delta R.T. 0.01 min
 Lab File: VN050927.D
 Acq: 28 Aug 2018 21:06

Tgt Ion: 43 Resp: 15991
 Ion Ratio Lower Upper
 43 100
 58 30.1 27.2 40.8

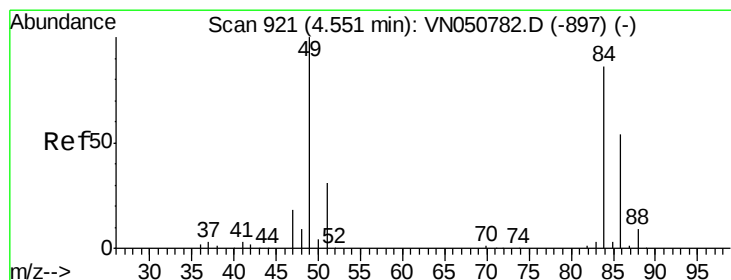
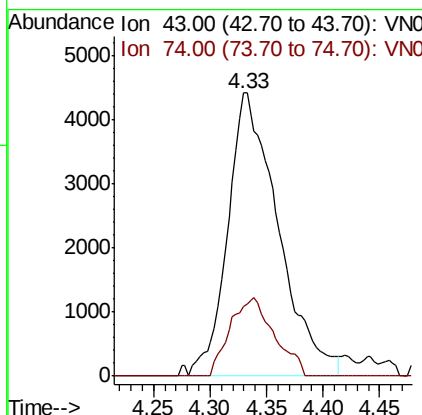
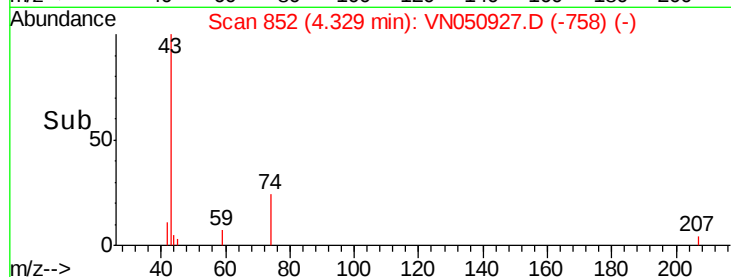
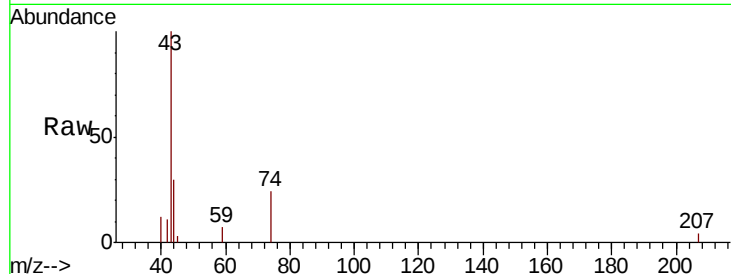




#18
Methyl Acetate
Concen: 2.02 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN050927.D
Acq: 28 Aug 2018 21:06

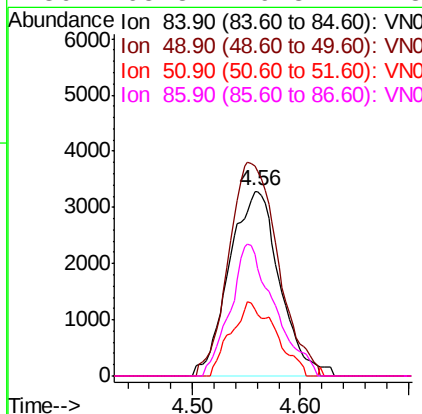
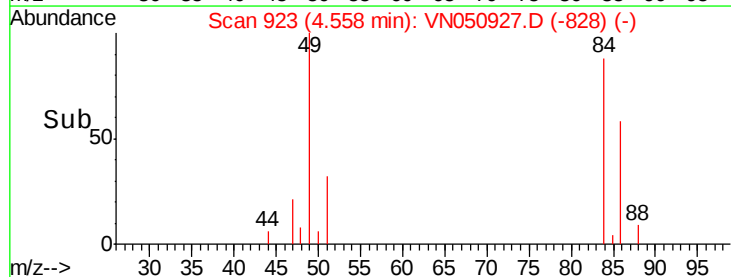
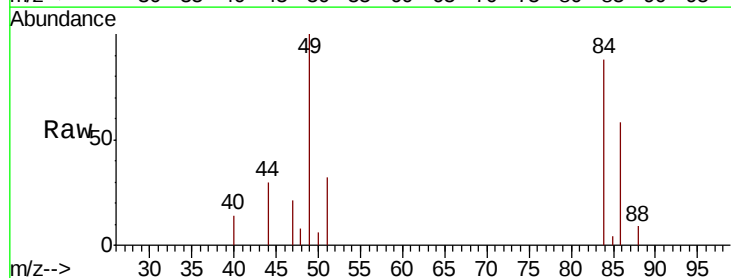
Instrument :
MSVOA_N
ClientSampleId :
PB112421ZHE#05

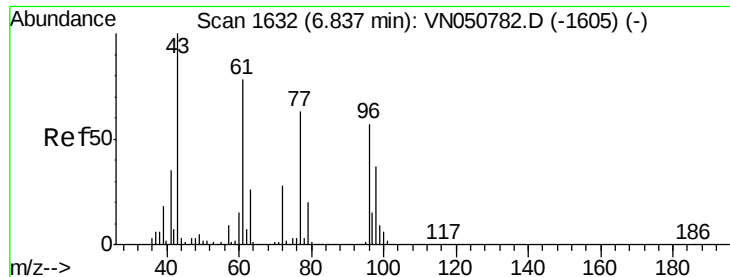
Tot Ion: 43 Resp: 13714
Ion Ratio Lower Upper
43 100
74 24.3 19.8 29.8



#20
Methylene Chloride
Concen: 1.32 ug/l
RT: 4.56 min Scan# 923
Delta R.T. 0.01 min
Lab File: VN050927.D
Acq: 28 Aug 2018 21:06

Tgt Ion: 84 Resp: 10697
Ion Ratio Lower Upper
84 100
49 113.7 93.2 139.8
51 35.9 29.0 43.6
86 65.8 49.8 74.8

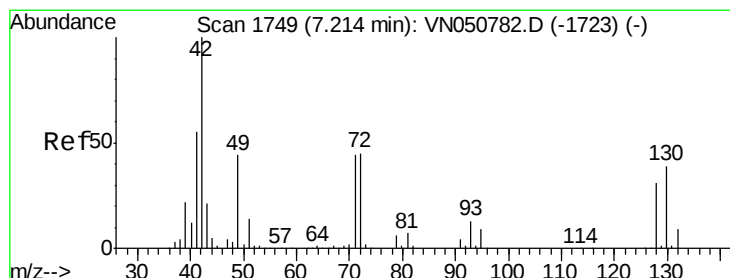
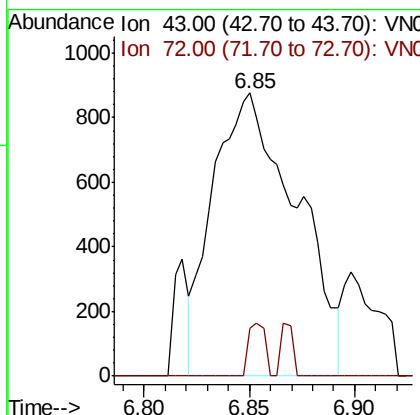
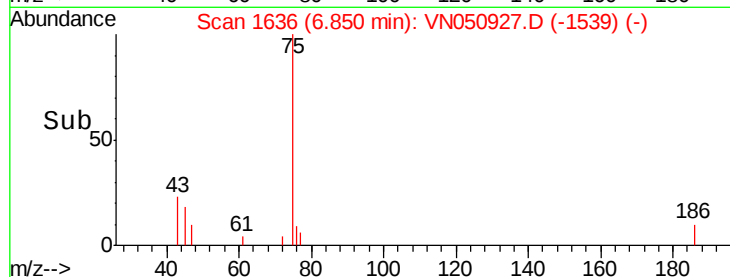
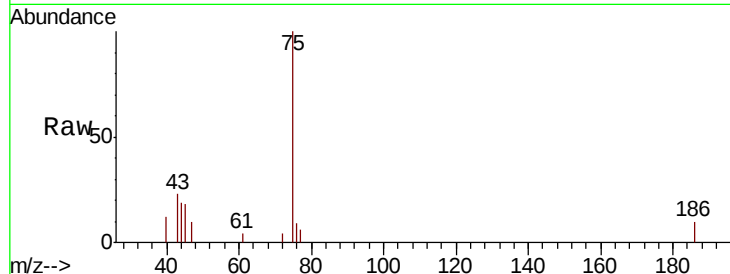




#25
2-Butanone
Concen: 0.83 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN050927.D
Acq: 28 Aug 2018 21:06

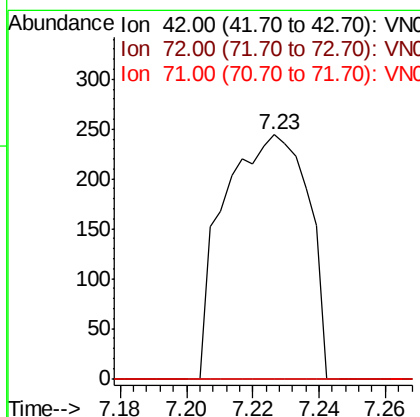
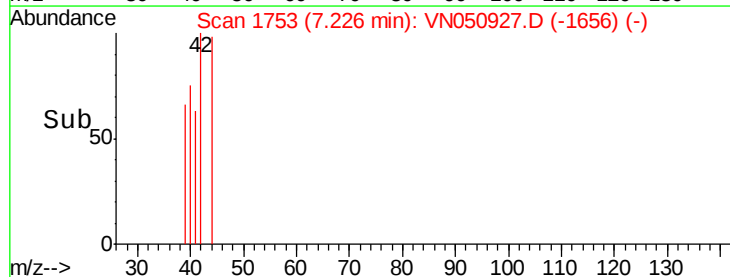
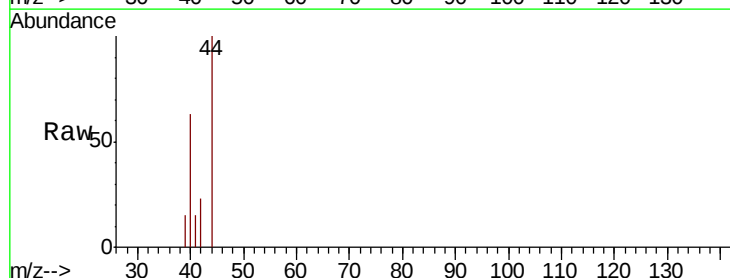
Instrument :
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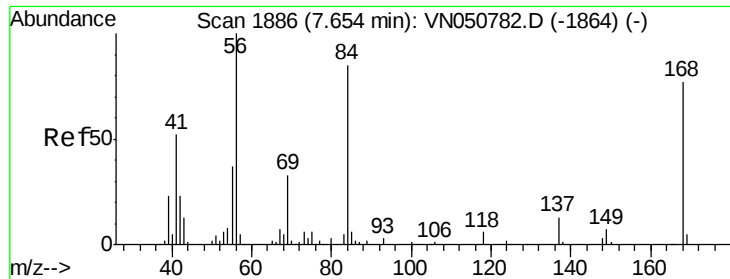
Tot Ion: 43 Resp: 2404
Ion Ratio Lower Upper
43 100
72 22.5 22.3 33.5



#29
Tetrahydrofuran
Concen: 0.26 ug/l
RT: 7.23 min Scan# 1753
Delta R.T. 0.01 min
Lab File: VN050927.D
Acq: 28 Aug 2018 21:06

Tgt Ion: 42 Resp: 431
Ion Ratio Lower Upper
42 100
72 0.0 35.5 53.3#
71 0.0 33.7 50.5#

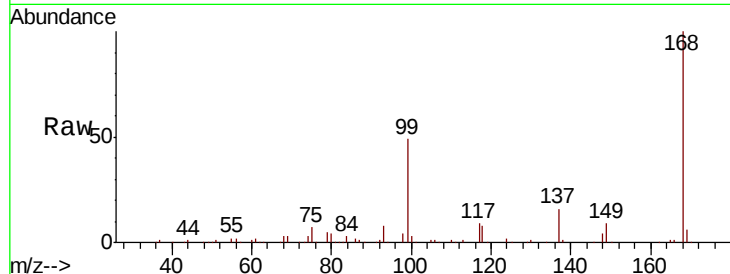




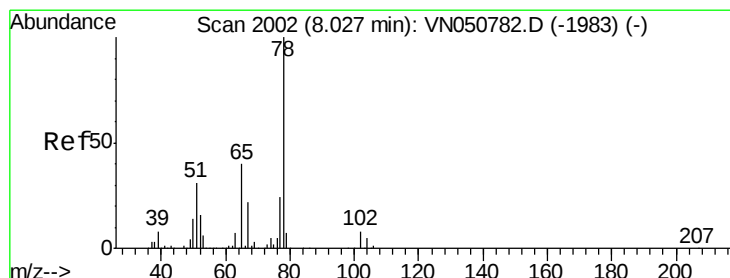
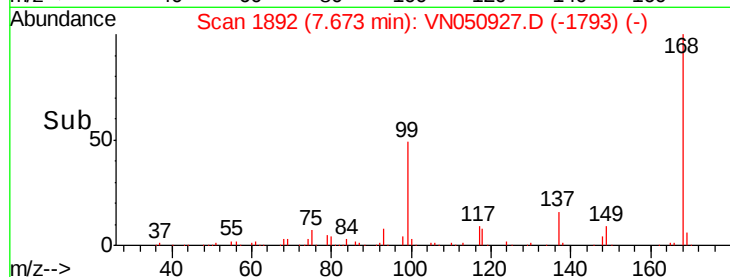
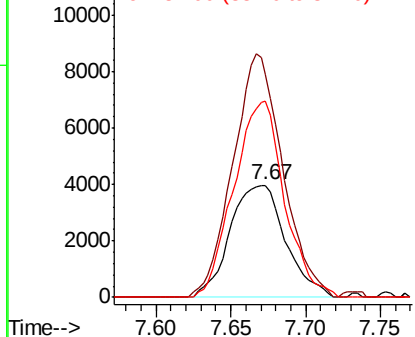
#31
Cyclohexane
Concen: 1.30 ug/l
RT: 7.67 min Scan# 1892
Delta R.T. 0.02 min
Lab File: VN050927.D
Acq: 28 Aug 2018 21:06

Instrument :
MSVOA_N
ClientSampleId :
PB112421ZHE#05

Tot Ion: 56 Resp: 10222
Ion Ratio Lower Upper
56 100
69 199.8 26.2 39.4#
84 175.6 68.3 102.5#

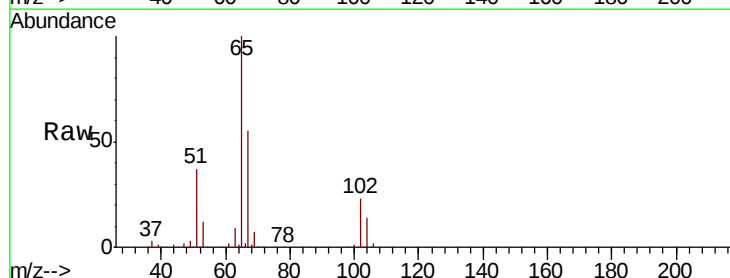


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

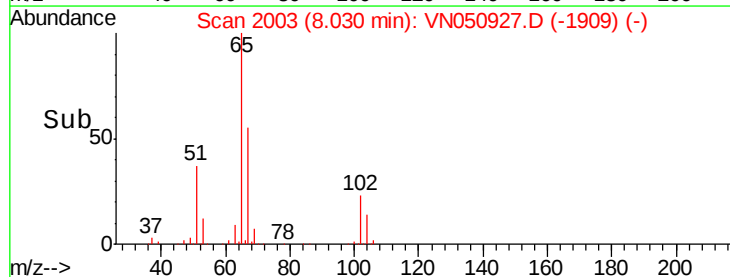
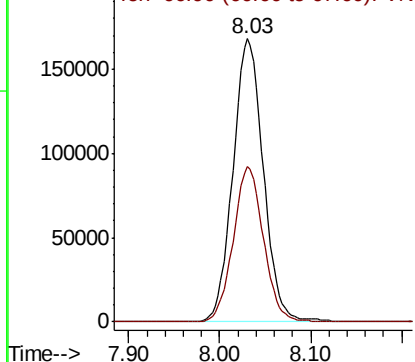


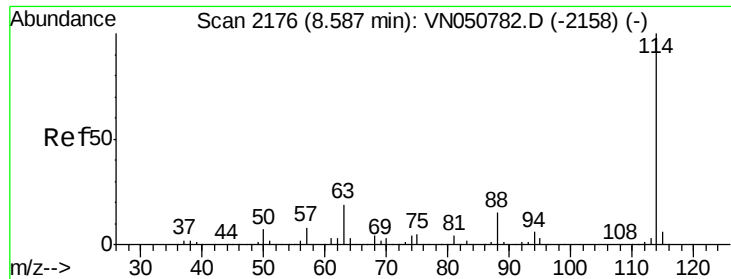
#33
1,2-Dichloroethane-d4
Concen: 54.30 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050927.D
Acq: 28 Aug 2018 21:06

Tgt Ion: 65 Resp: 389515
Ion Ratio Lower Upper
65 100
67 54.6 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VNO
Ion 66.90 (66.60 to 67.60): VNO

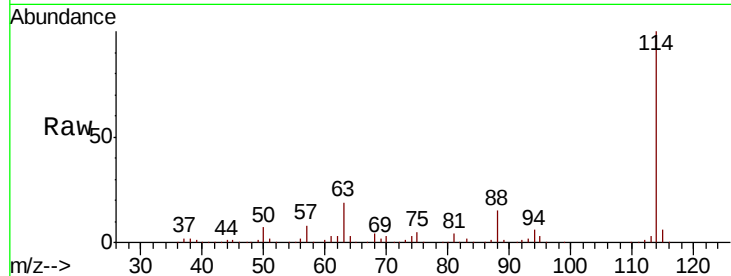




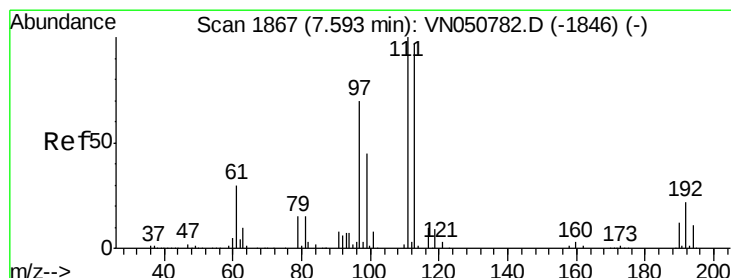
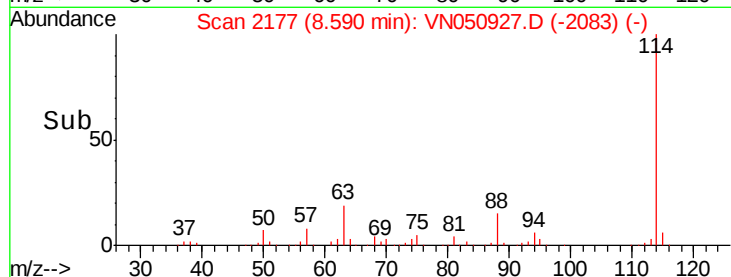
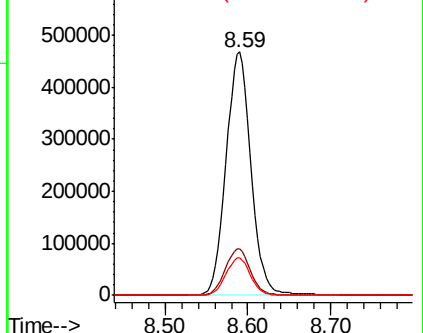
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050927.D
 Acq: 28 Aug 2018 21:06

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112421ZHE#05

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.0	0.0	38.6
88	15.3	0.0	30.6

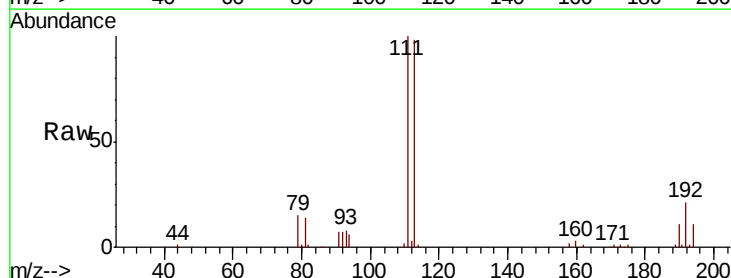


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

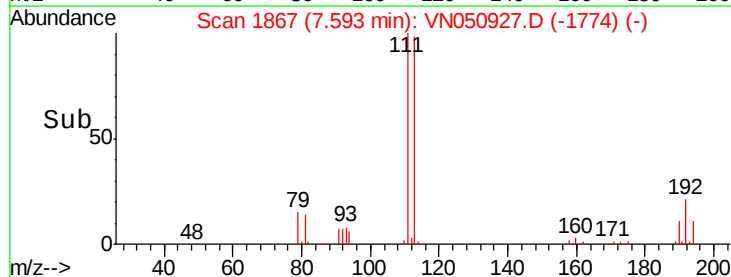
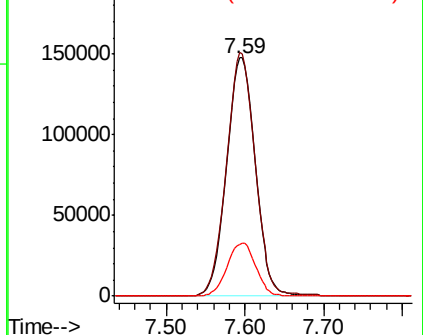


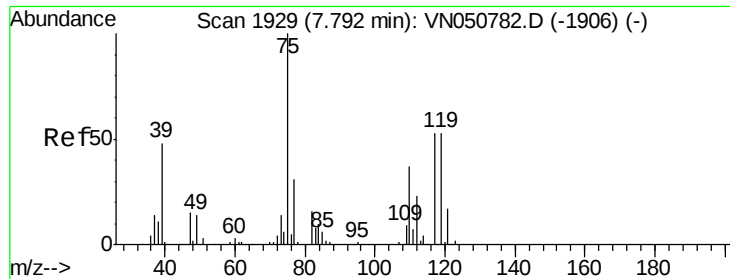
#35
 Dibromofluoromethane
 Concen: 48.22 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050927.D
 Acq: 28 Aug 2018 21:06

Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.8	82.6	123.8
192	22.1	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

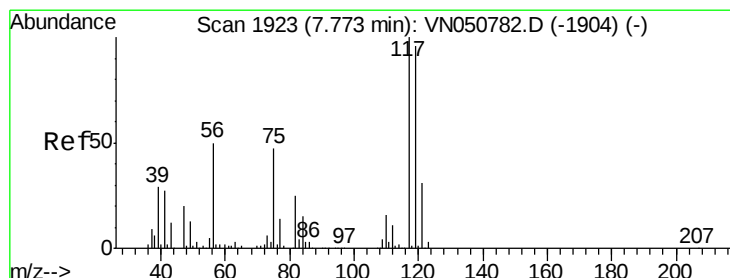
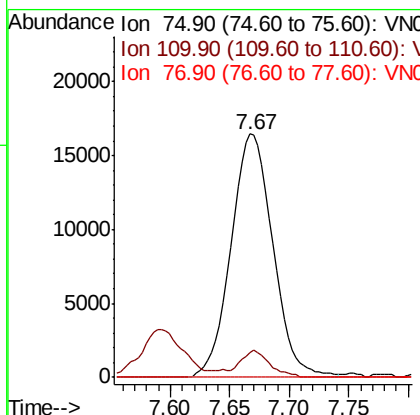
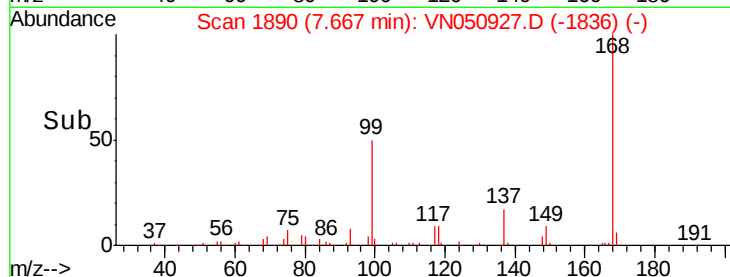
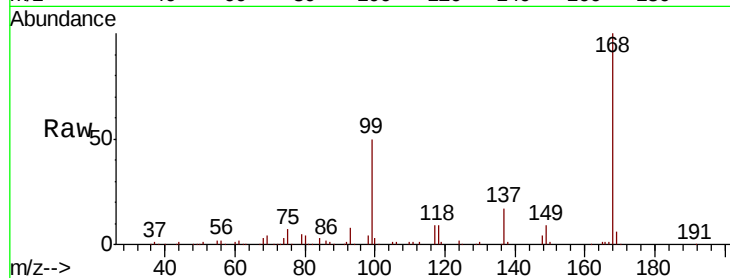




#36
 1,1-Dichloropropene
 Concen: 3.47 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050927.D
 Acq: 28 Aug 2018 21:06

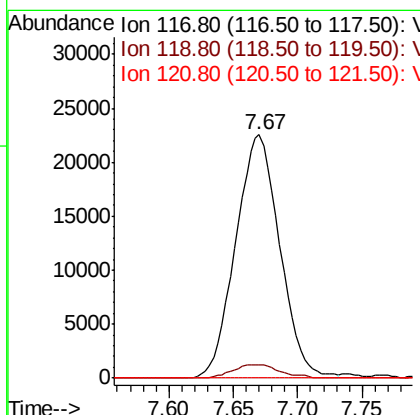
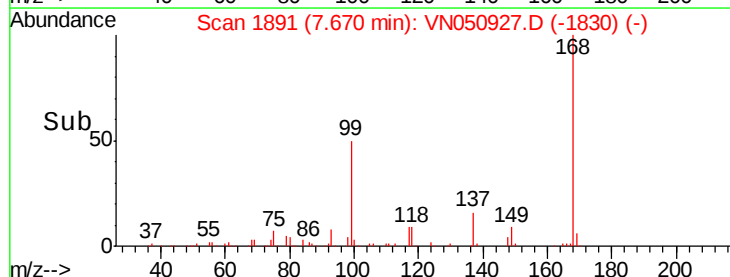
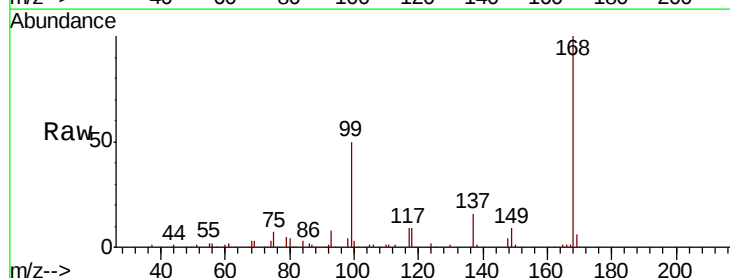
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112421ZHE#05

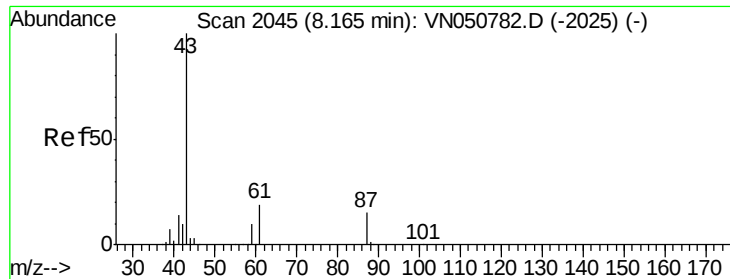
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.6	18.1	54.4#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 4.59 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.10 min
 Lab File: VN050927.D
 Acq: 28 Aug 2018 21:06

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	76.3	114.5#
121	0.0	24.6	36.8#



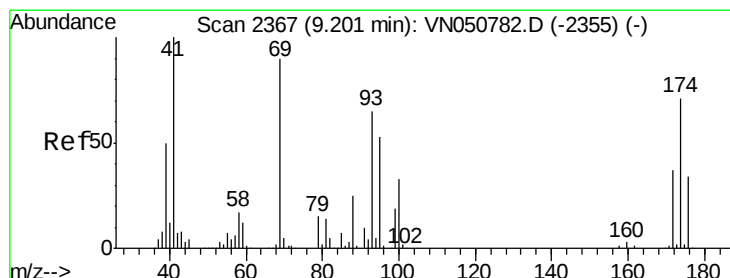
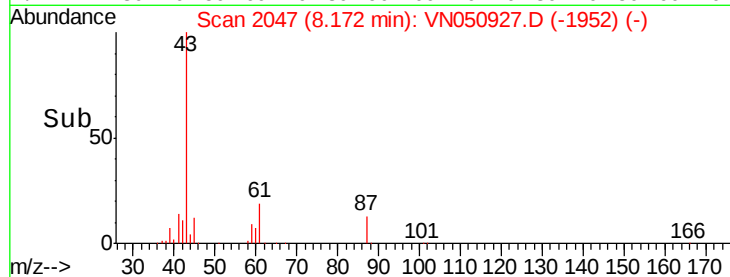
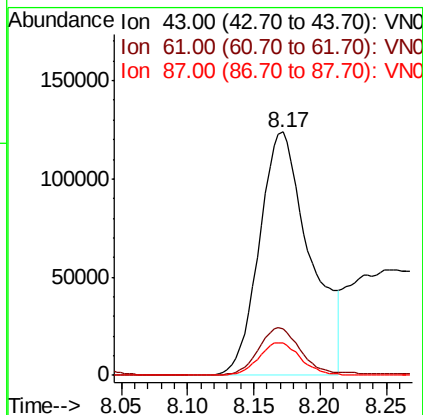
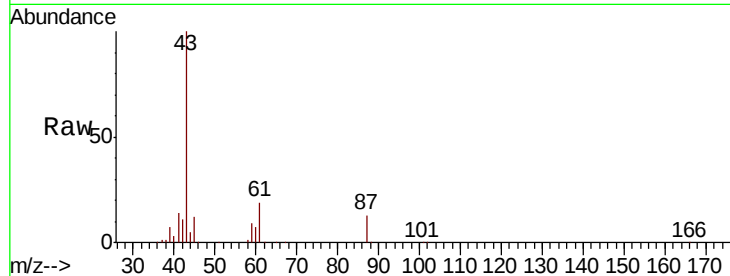


#43

Isopropyl Acetate
 Concen: 28.84 ug/l
 RT: 8.17 min Scan# 2047
 Delta R.T. 0.01 min
 Lab File: VN050927.D
 Acq: 28 Aug 2018 21:06

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112421ZHE#05

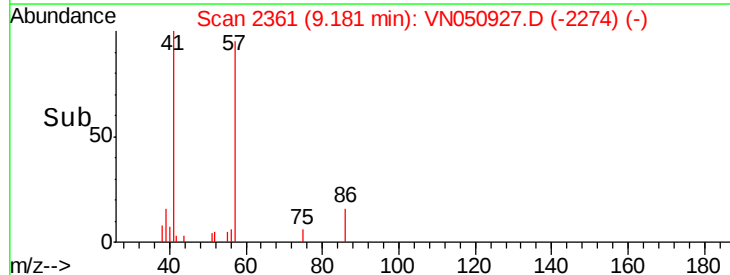
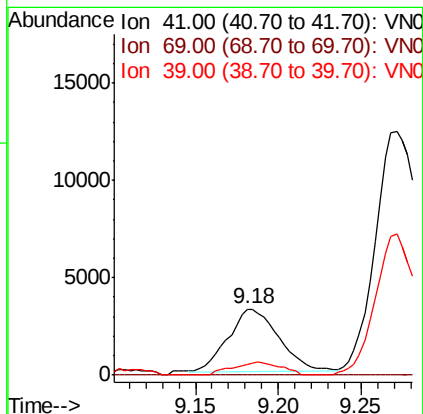
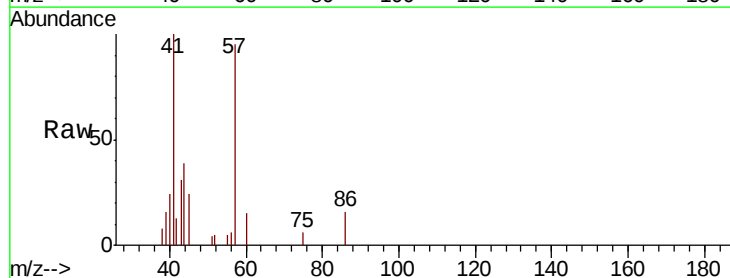
Tot Ion: 43 Resp: 329350
 Ion Ratio Lower Upper
 43 100
 61 17.0 17.5 26.3#
 87 11.1 11.3 16.9#

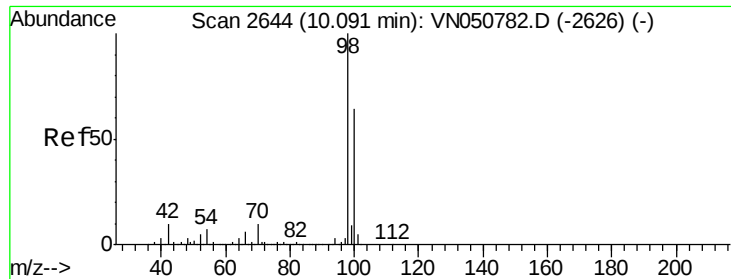


#48

Methyl methacrylate
 Concen: 1.18 ug/l
 RT: 9.18 min Scan# 2361
 Delta R.T. -0.02 min
 Lab File: VN050927.D
 Acq: 28 Aug 2018 21:06

Tgt Ion: 41 Resp: 6879
 Ion Ratio Lower Upper
 41 100
 69 0.0 74.7 112.1#
 39 19.4 42.2 63.2#





#50

Toluene-d8

Concen: 44.99 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050927.D

Acq: 28 Aug 2018 21:06

Instrument :

MSVOA_N

ClientSampleId :

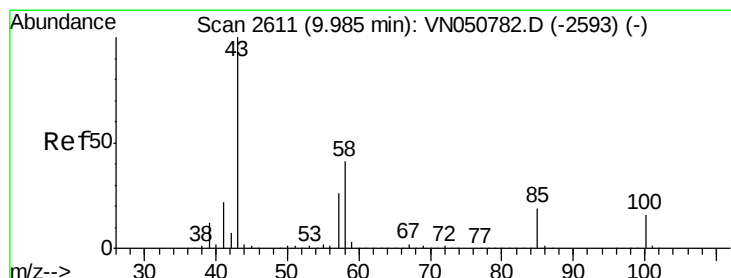
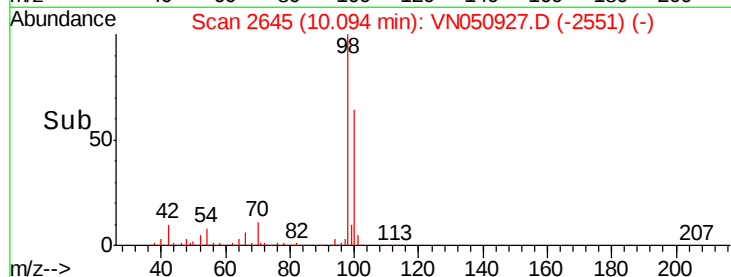
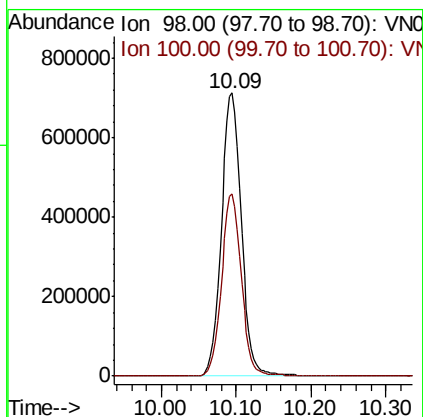
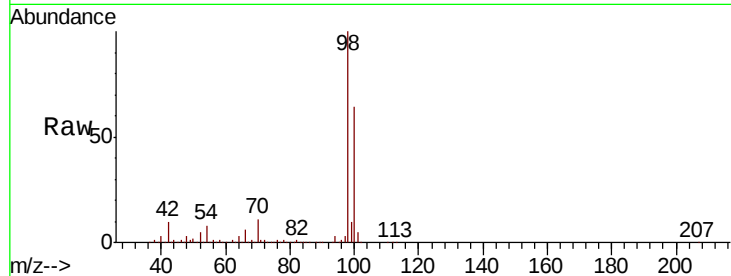
PB112421ZHE#05

Tot Ion: 98 Resp: 1311192

Ion Ratio Lower Upper

98 100

100 63.8 51.5 77.3



#51

4-Methyl-2-Pentanone

Concen: 0.33 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VN050927.D

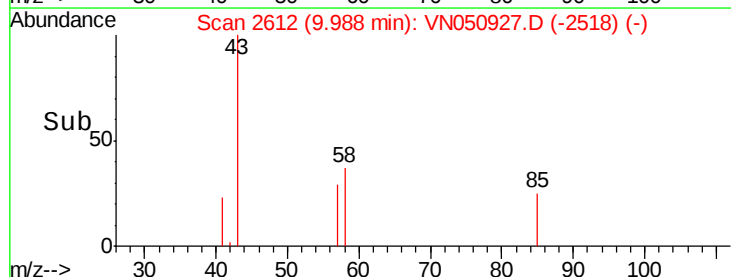
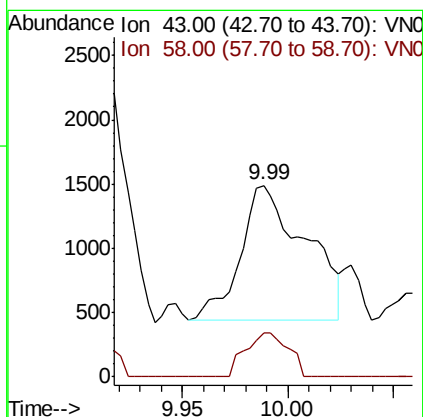
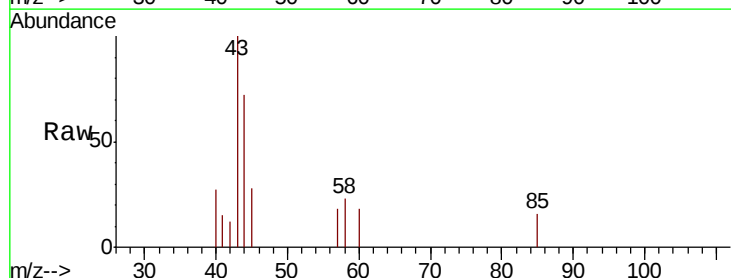
Acq: 28 Aug 2018 21:06

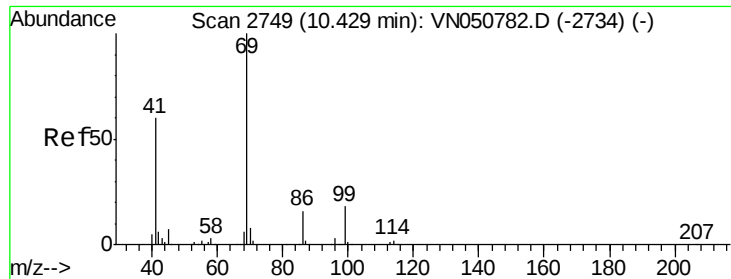
Tgt Ion: 43 Resp: 2255

Ion Ratio Lower Upper

43 100

58 21.5 32.4 48.6#





#56

Ethyl methacrylate

Concen: 2.54 ug/l

RT: 10.23 min Scan# 2687

Delta R.T. -0.20 min

Lab File: VN050927.D

Acq: 28 Aug 2018 21:06

Instrument :

MSVOA_N

ClientSampleId :

PB112421ZHE#05

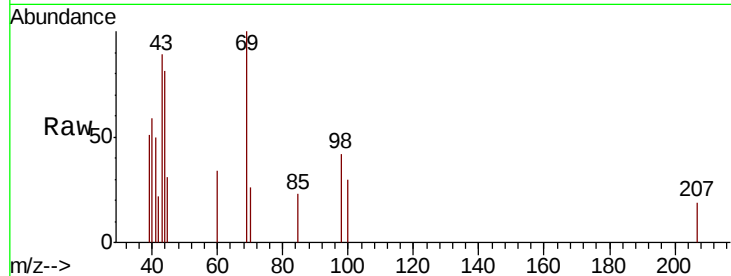
Tot Ion: 69 Resp: 2004

Ion Ratio Lower Upper

69 100

41 0.0 48.3 72.5#

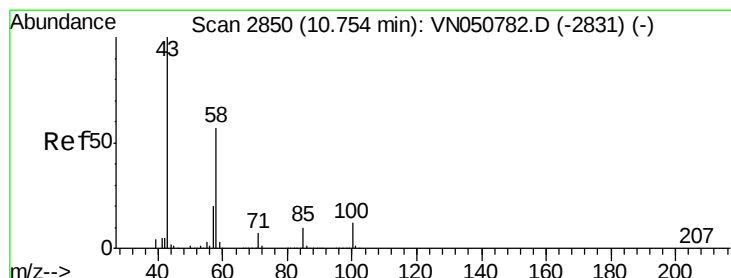
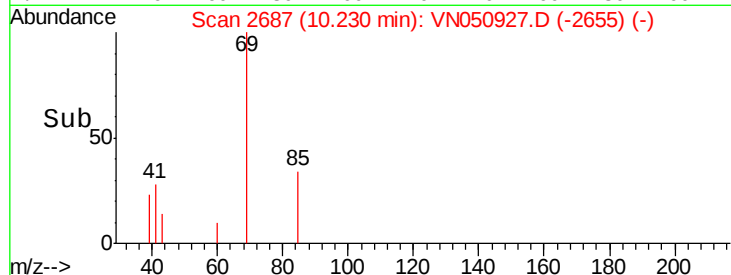
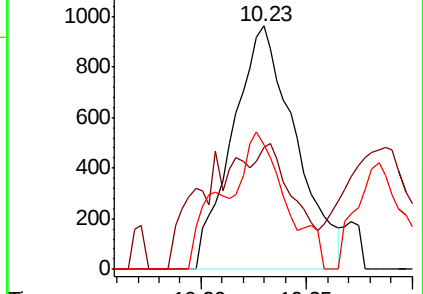
39 40.0 24.0 36.0#



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: 3.77 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050927.D

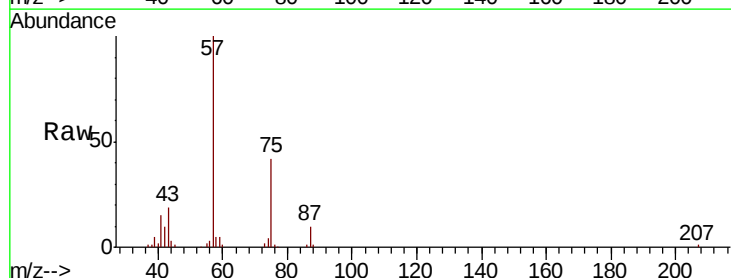
Acq: 28 Aug 2018 21:06

Tgt Ion: 43 Resp: 17124

Ion Ratio Lower Upper

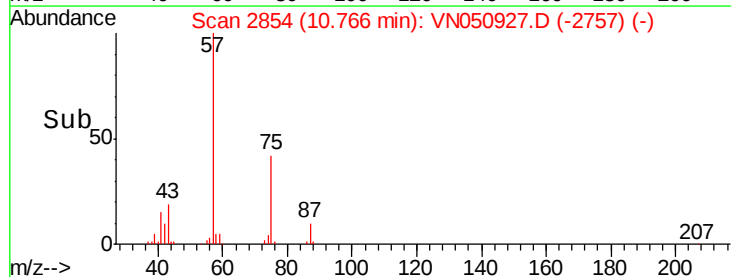
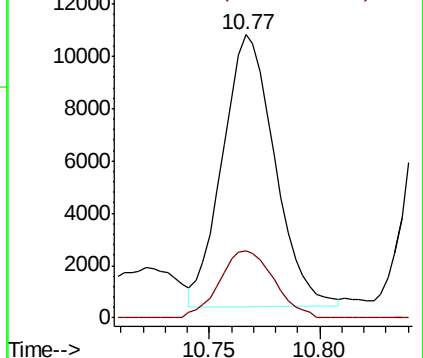
43 100

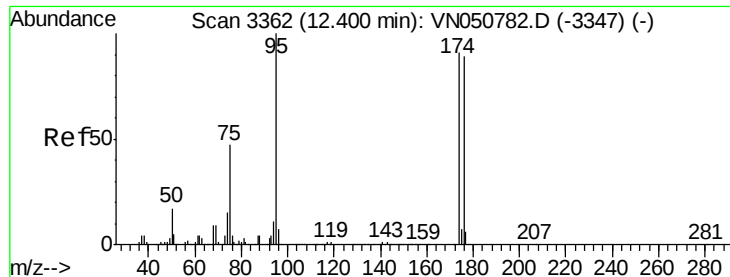
58 25.5 28.3 85.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

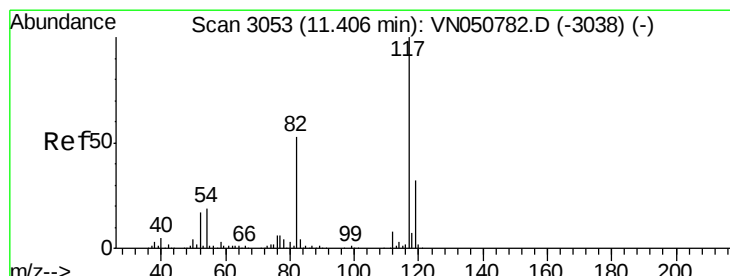
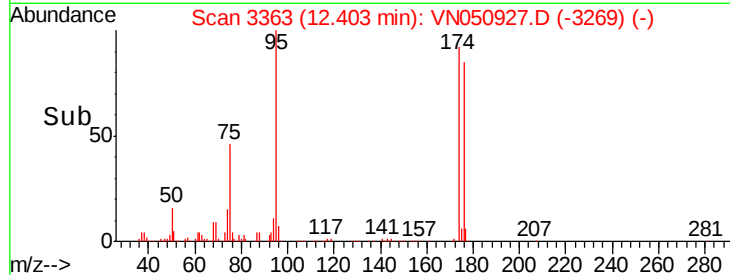
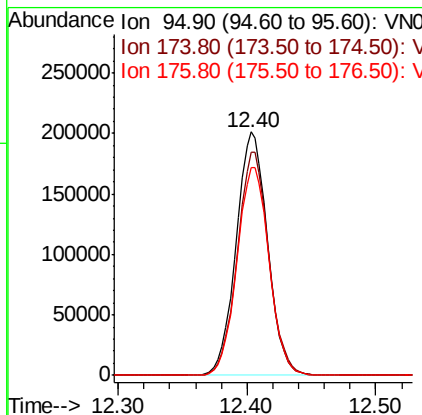
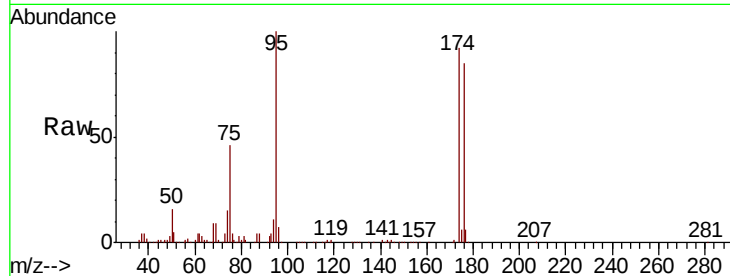




#62
 4-Bromofluorobenzene
 Concen: 35.08 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.00 min
 Lab File: VN050927.D
 Acq: 28 Aug 2018 21:06

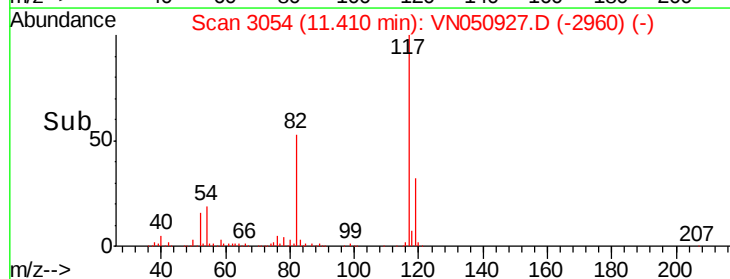
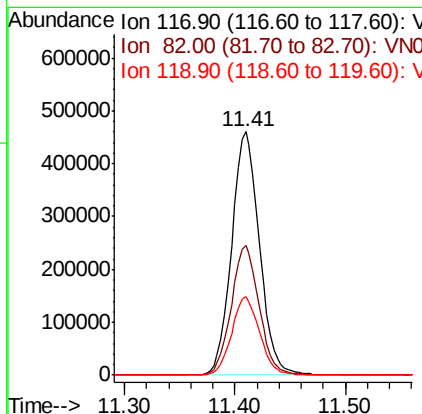
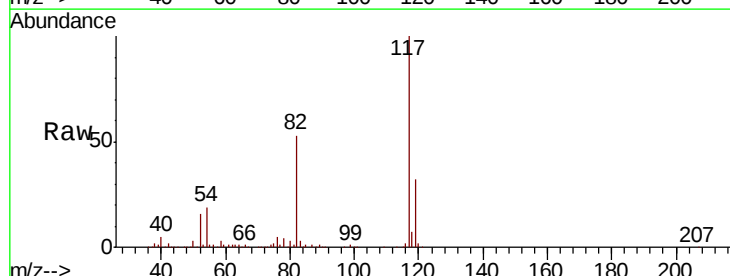
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112421ZHE#05

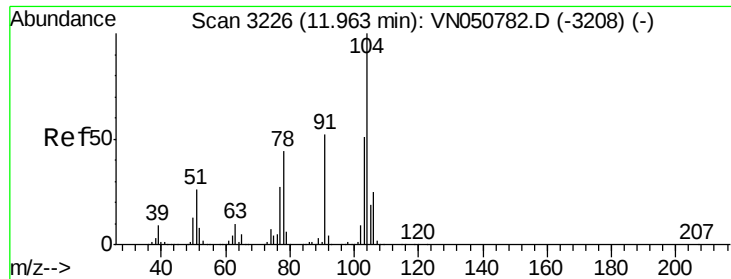
Tot Ion: 95 Resp: 339764
 Ion Ratio Lower Upper
 95 100
 174 91.7 0.0 183.0
 176 87.5 0.0 178.8



#63
 Chlorobenzene-d5
 Concen: 50.00 ug/l
 RT: 11.41 min Scan# 3054
 Delta R.T. 0.00 min
 Lab File: VN050927.D
 Acq: 28 Aug 2018 21:06

Tgt Ion: 117 Resp: 803539
 Ion Ratio Lower Upper
 117 100
 82 53.1 42.6 64.0
 119 32.0 25.8 38.6

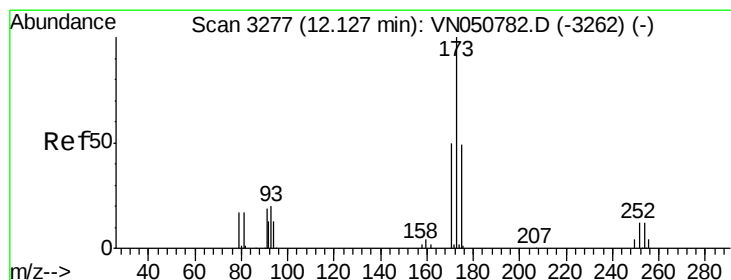
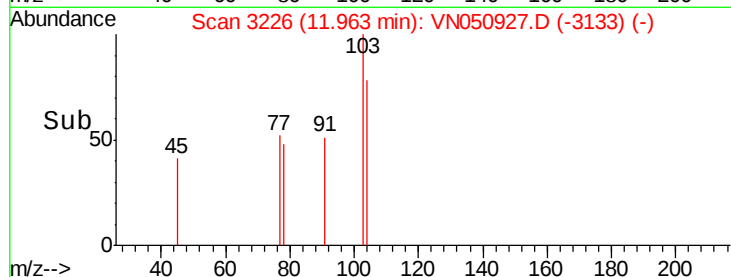
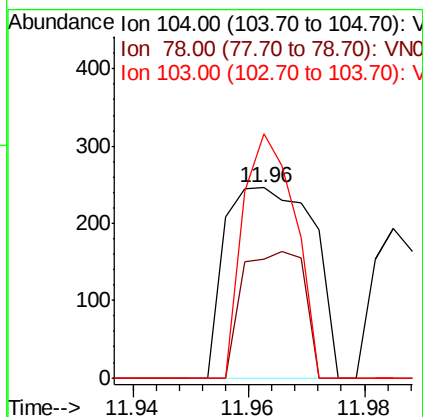
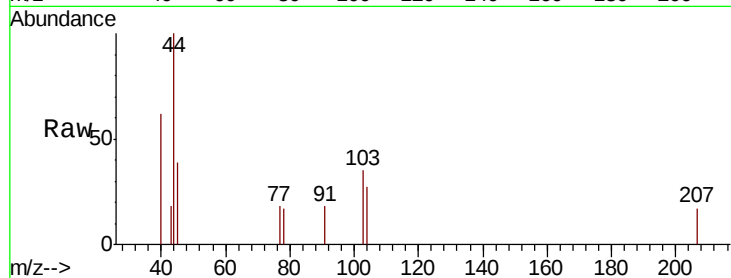




#70
Stvrene
Concen: 1.28 ug/l
RT: 11.96 min Scan# 3226
Delta R.T. 0.00 min
Lab File: VN050927.D
Acq: 28 Aug 2018 21:06

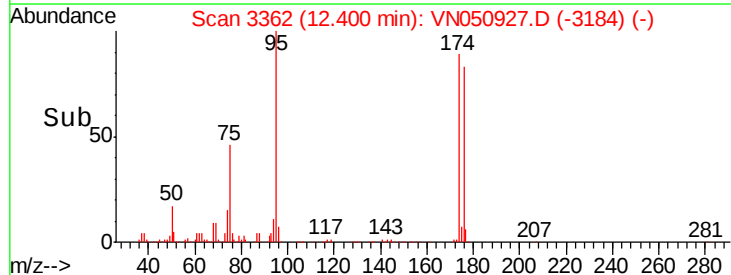
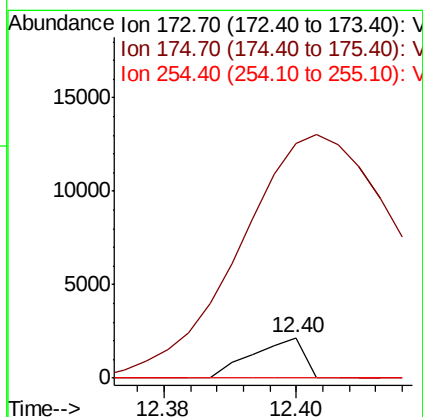
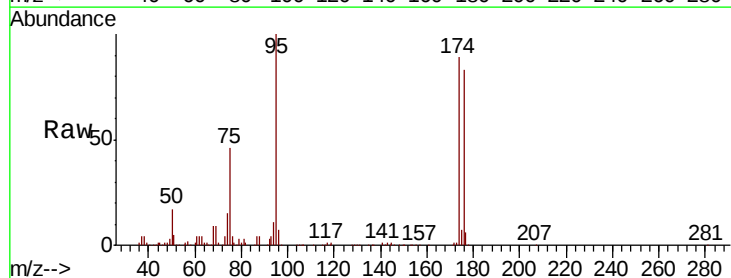
Instrument :
MSVOA_N
ClientSampleId :
PB112421ZHE#05

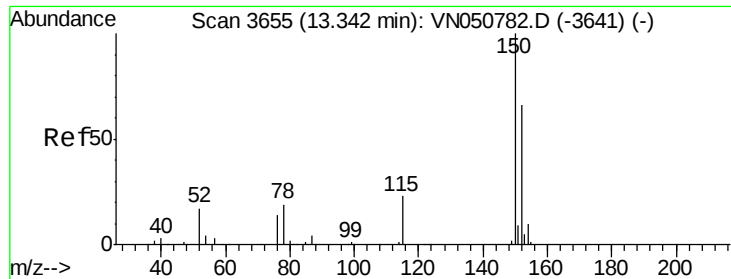
Tot Ion:104 Resp: 260
Ion Ratio Lower Upper
104 100
78 46.2 38.2 57.4
103 75.4 44.4 66.6#



#71
Bromoform
Concen: 0.22 ug/l
RT: 12.40 min Scan# 3362
Delta R.T. 0.27 min
Lab File: VN050927.D
Acq: 28 Aug 2018 21:06

Tgt Ion:173 Resp: 1155
Ion Ratio Lower Upper
173 100
175 1572.6 24.4 73.4#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050927.D

Acq: 28 Aug 2018 21:06

Instrument :

MSVOA_N

ClientSampleId :

PB112421ZHE#05

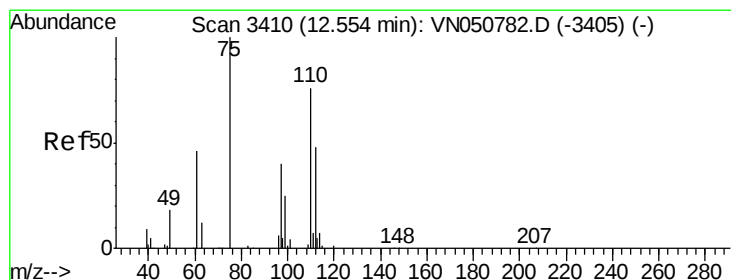
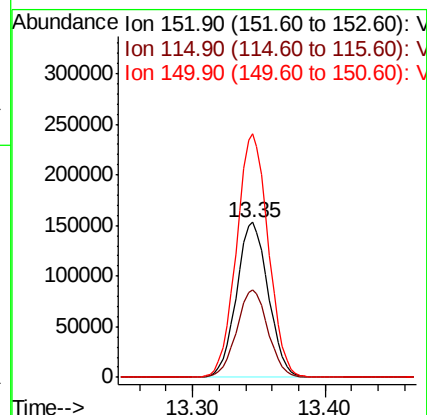
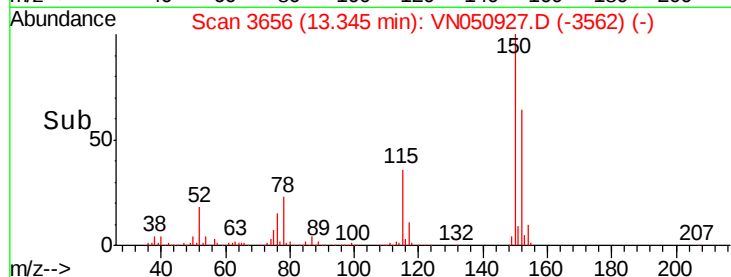
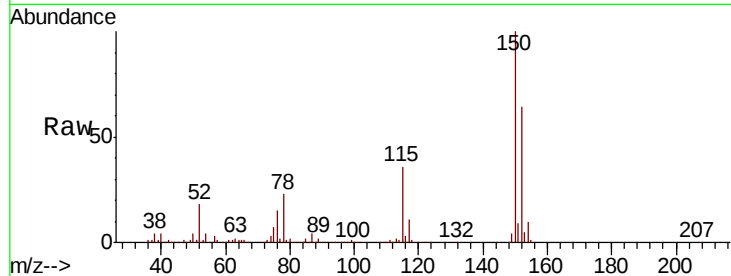
Tot Ion:152 Resp: 254673

Ion Ratio Lower Upper

152 100

115 55.6 27.8 83.4

150 156.7 0.0 351.4



#76

1,2,3-Trichloropropane

Concen: 35.13 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050927.D

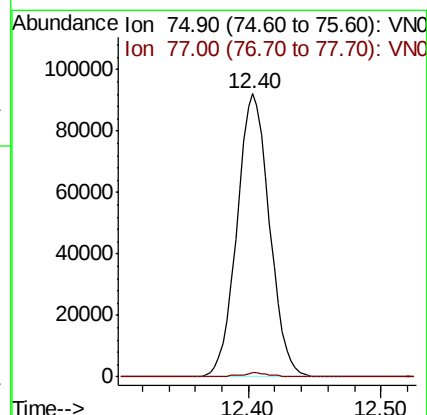
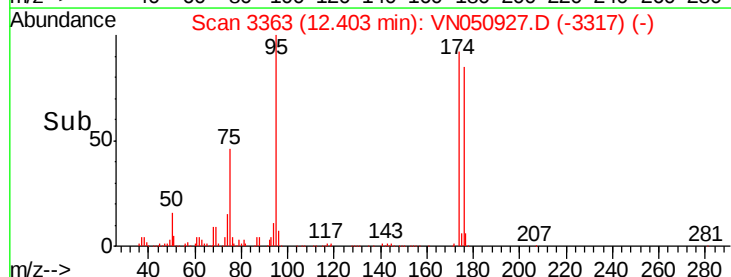
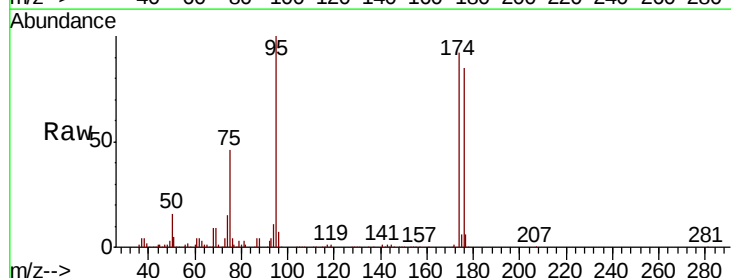
Acq: 28 Aug 2018 21:06

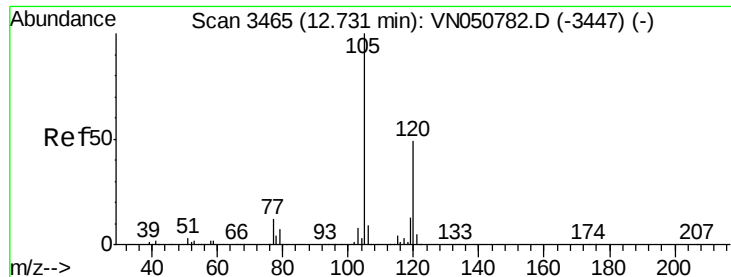
Tgt Ion: 75 Resp: 156693

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#





#80

1,3,5-Trimethylbenzene

Concen: 0.24 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050927.D

Acq: 28 Aug 2018 21:06

Instrument :

MSVOA_N

ClientSampleId :

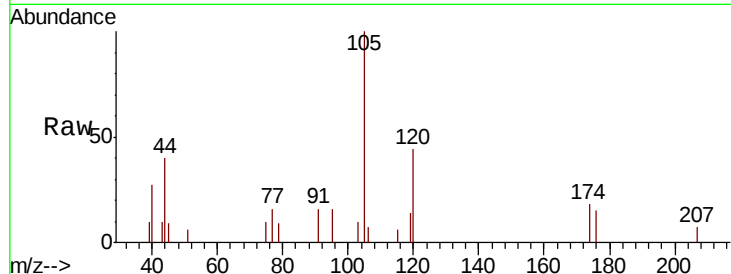
PB112421ZHE#05

Tot Ion:105 Resp: 4008

Ion Ratio Lower Upper

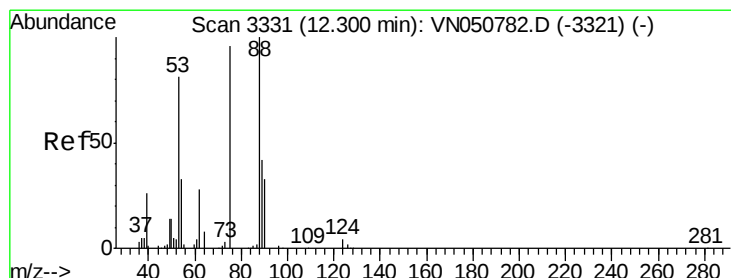
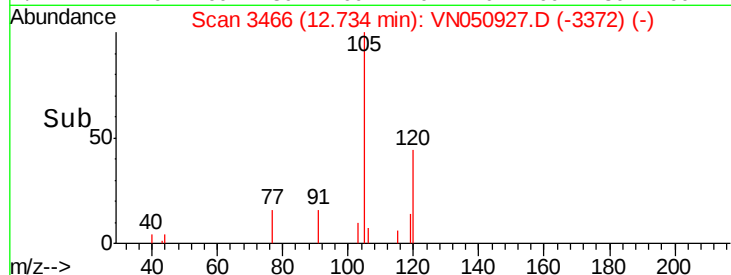
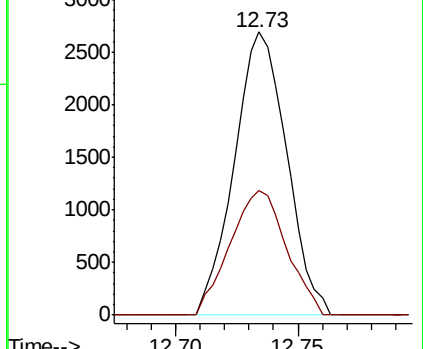
105 100

120 47.4 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 118.75 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050927.D

Acq: 28 Aug 2018 21:06

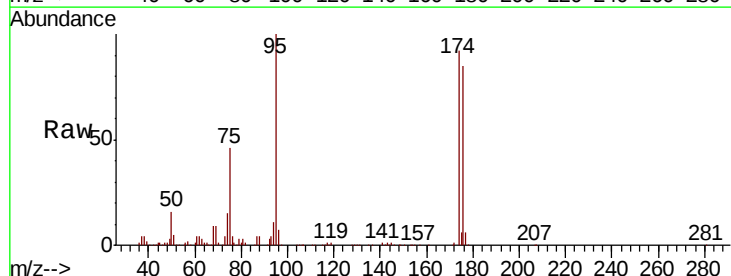
Tgt Ion: 75 Resp: 156693

Ion Ratio Lower Upper

75 100

53 0.2 68.9 103.3#

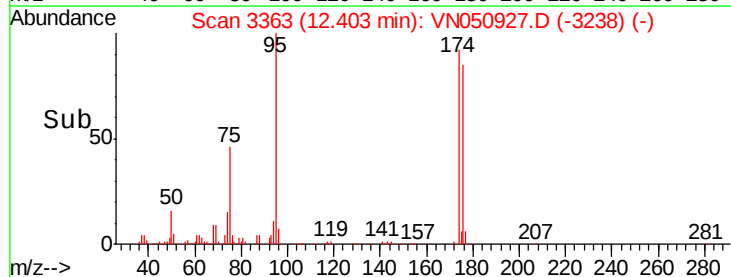
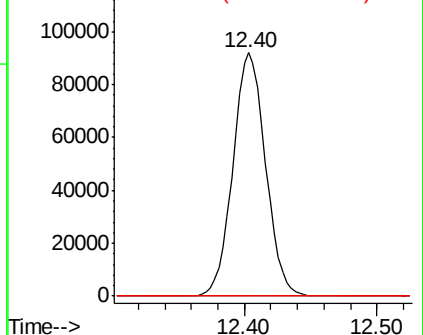
89 0.0 36.1 54.1#

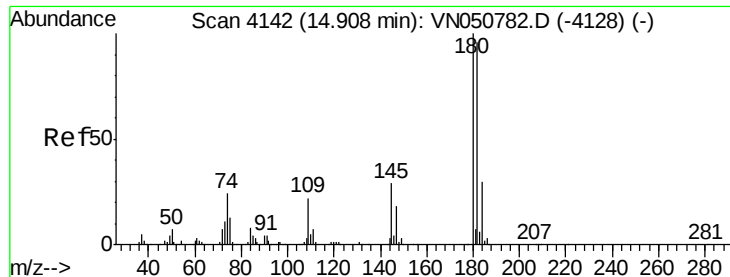


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

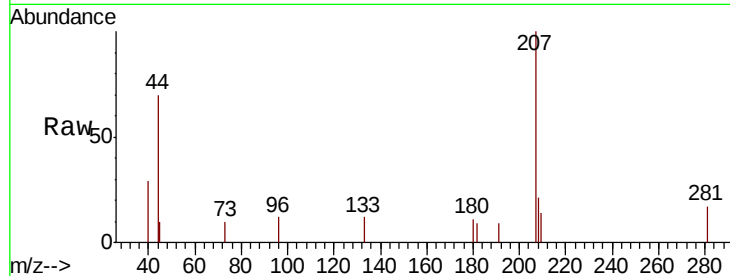




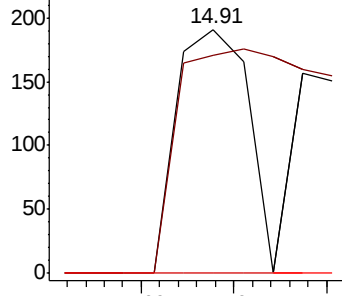
#93
 1,2,4-Trichlorobenzene
 Concen: 4.10 ug/l
 RT: 14.91 min Scan# 4142
 Delta R.T. 0.00 min
 Lab File: VN050927.D
 Acq: 28 Aug 2018 21:06

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112421ZHE#05

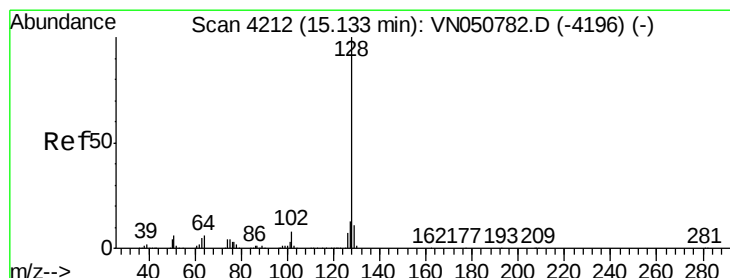
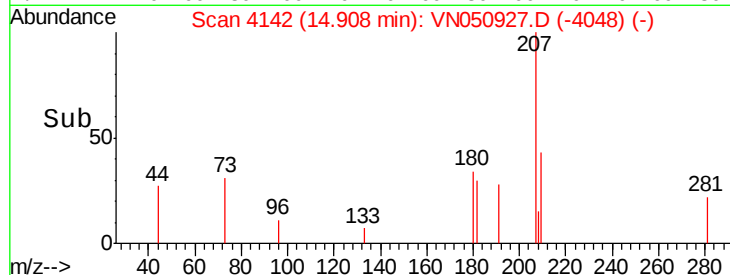
Tot Ion:180 Resp: 102
 Ion Ratio Lower Upper
 180 100
 182 188.2 48.2 144.6#
 145 0.0 14.1 42.2#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

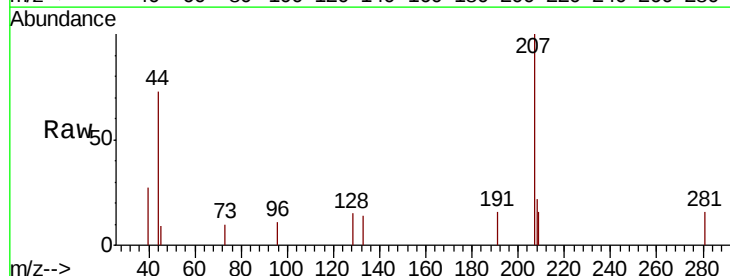


Time-->

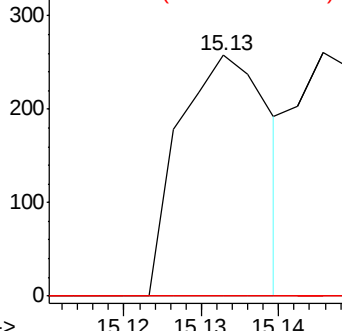


#95
 Naphthalene
 Concen: 5.42 ug/l
 RT: 15.13 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN050927.D
 Acq: 28 Aug 2018 21:06

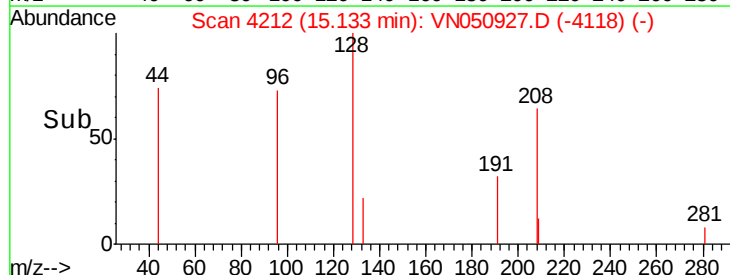
Tgt Ion:128 Resp: 209
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.5 15.7#
 129 0.0 8.7 13.1#

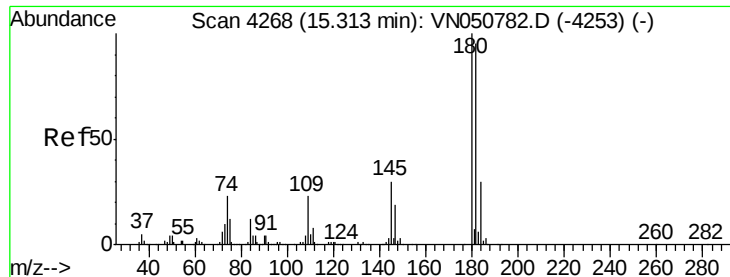


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V



Time-->





#96

1,2,3-Trichlorobenzene

Concen: 3.30 ug/l

RT: 15.32 min Scan# 4270

Delta R.T. 0.01 min

Lab File: VN050927.D

Acq: 28 Aug 2018 21:06

Instrument :

MSVOA_N

ClientSampleId :

PB112421ZHE#05

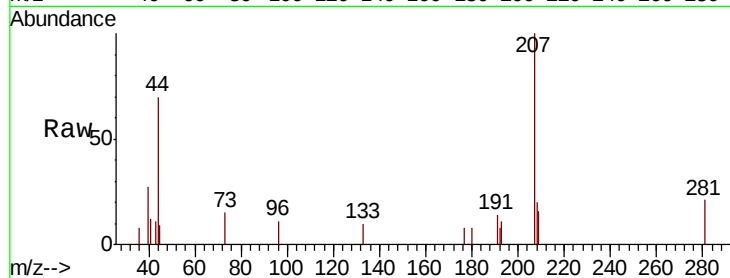
Tot Ion:180 Resp: 30

Ion Ratio Lower Upper

180 100

182 100.0 48.0 144.2

145 0.0 15.2 45.6#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

