

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082818\
 Data File : VN050925.D
 Acq On : 28 Aug 2018 20:17
 Operator : MD\SY
 Sample : PB112421ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112421ZHE#03

Quant Time: Aug 29 03:55:43 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	577864	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	951304	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	792933	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	262819	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	380589	54.71	ug/l	0.00
Spiked Amount			Recovery	=	109.42%	
35) Dibromofluoromethane	7.59	113	363412	48.02	ug/l	0.00
Spiked Amount			Recovery	=	96.04%	
50) Toluene-d8	10.09	98	1282659	45.33	ug/l	0.00
Spiked Amount			Recovery	=	90.66%	
62) 4-Bromofluorobenzene	12.40	95	339918	36.15	ug/l	0.00
Spiked Amount			Recovery	=	72.30%	

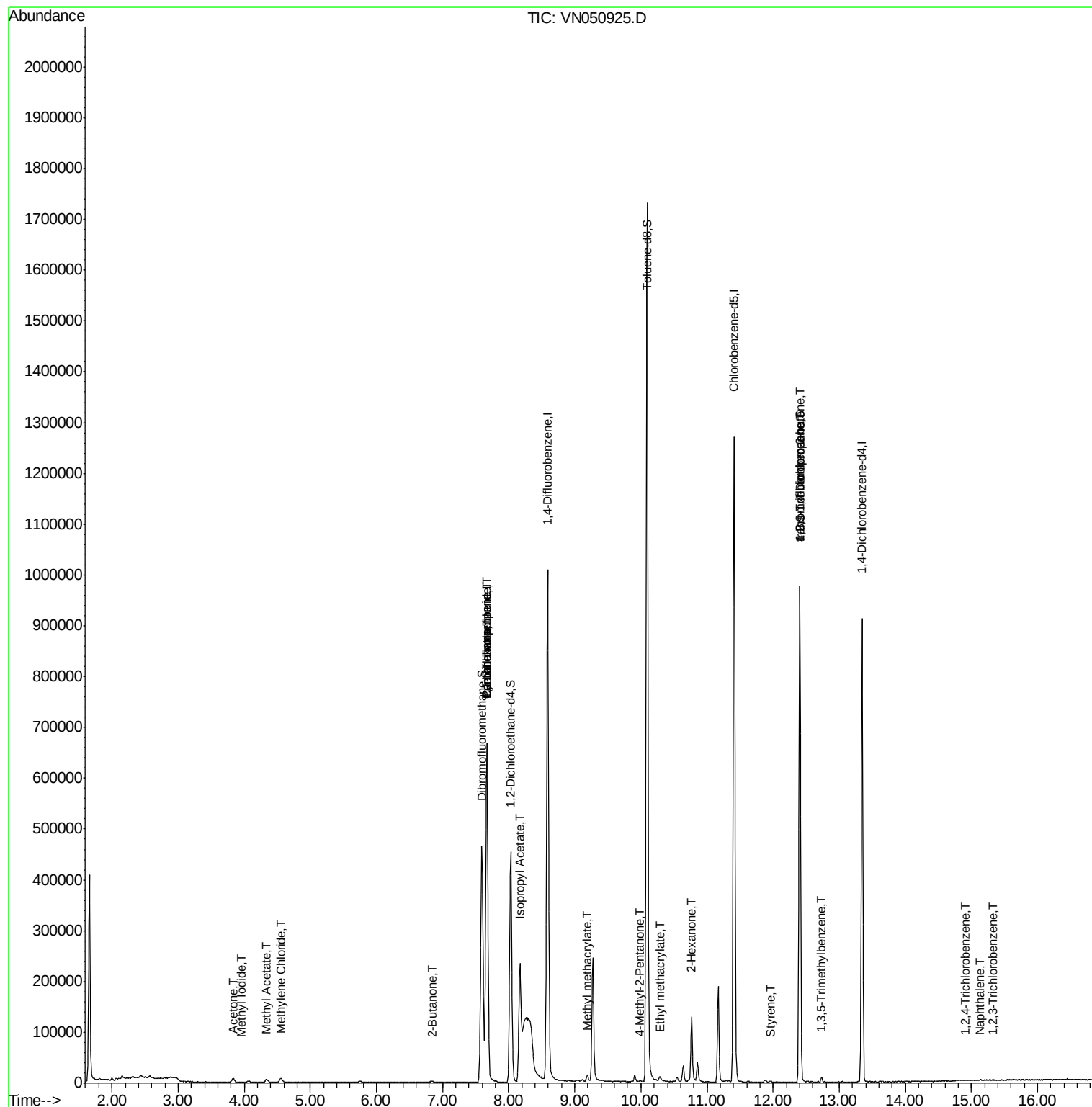
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	2661	Below Cal		88
10) Methyl Iodide	3.96	142	727	6.44	ug/l #	75
16) Acetone	3.83	43	13828	1.37	ug/l	93
18) Methyl Acetate	4.34	43	13162	2.00	ug/l	95
20) Methylene Chloride	4.56	84	6733	0.86	ug/l	94
25) 2-Butanone	6.84	43	1071	0.38	ug/l	94
31) Cyclohexane	7.67	56	10284	1.33	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	38990	3.47	ug/l #	48
38) Carbon Tetrachloride	7.67	117	51441	4.53	ug/l #	16
43) Isopropyl Acetate	8.17	43	290851	26.23	ug/l	95
48) Methyl methacrylate	9.18	41	8371	1.48	ug/l #	15
51) 4-Methyl-2-Pentanone	9.99	43	1965	0.30	ug/l	97
56) Ethyl methacrylate	10.30	69	101	2.36	ug/l #	1
59) 2-Hexanone	10.77	43	17973	4.08	ug/l #	56
70) Styrene	11.97	104	385	1.29	ug/l #	62
75) 1,1,2,2-Tetrachloroethane	12.40	83	202	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	160234	34.81	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4419	0.25	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.40	75	160234	117.67	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	234	4.13	ug/l #	45
95) Naphthalene	15.13	128	975	5.48	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	364	3.37	ug/l #	60

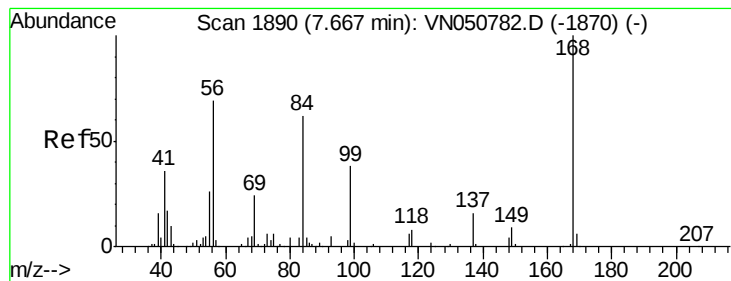
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050925.D

Acq: 28 Aug 2018 20:17

Instrument :

MSVOA_N

ClientSampleId :

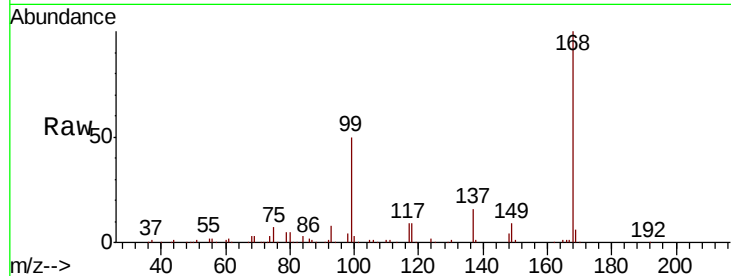
PB112421ZHE#03

Tot Ion:168 Resp: 577864

Ion Ratio Lower Upper

168 100

99 49.8 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

150000

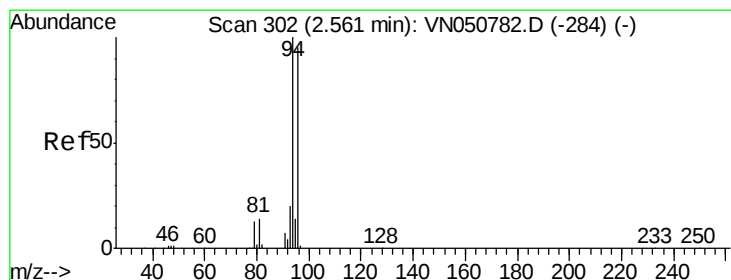
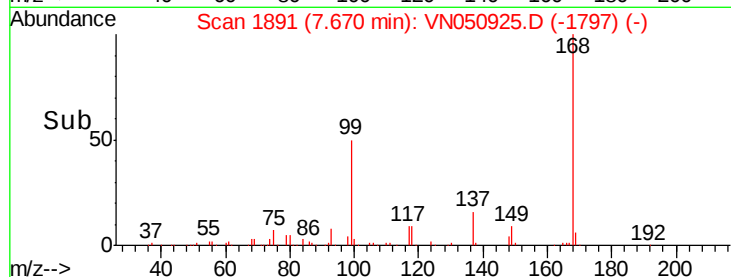
100000

50000

0

Time-->

7.60 7.70 7.80



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050925.D

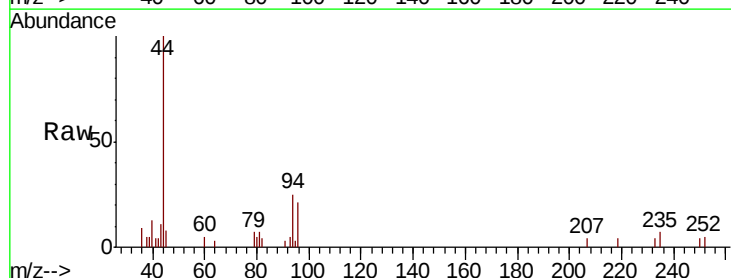
Acq: 28 Aug 2018 20:17

Tgt Ion: 94 Resp: 2661

Ion Ratio Lower Upper

94 100

96 83.3 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

1500

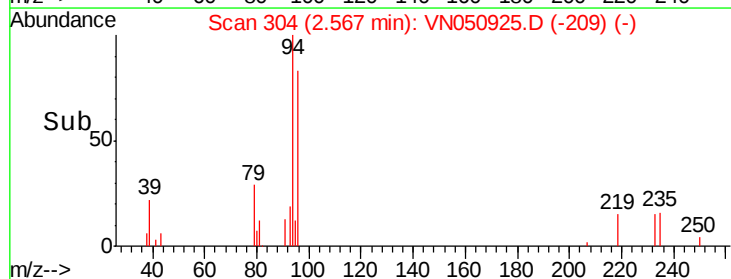
1000

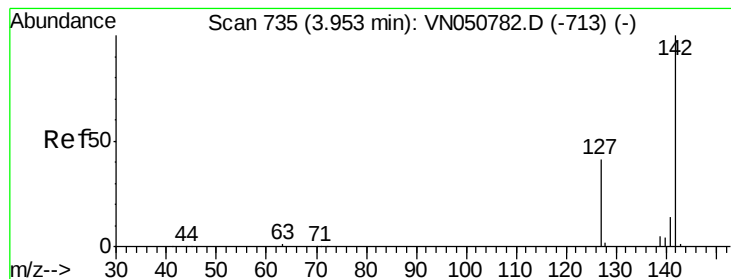
500

0

Time-->

2.50 2.55 2.60





#10

Methvl Iodide

Concen: 6.44 ug/l

RT: 3.96 min Scan# 736

Delta R.T. 0.00 min

Lab File: VN050925.D

Acq: 28 Aug 2018 20:17

Instrument :

MSVOA_N

ClientSampleId :

PB112421ZHE#03

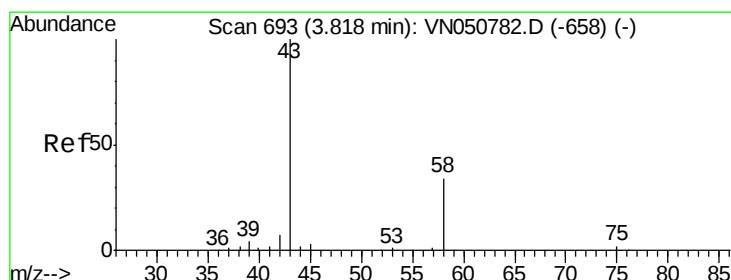
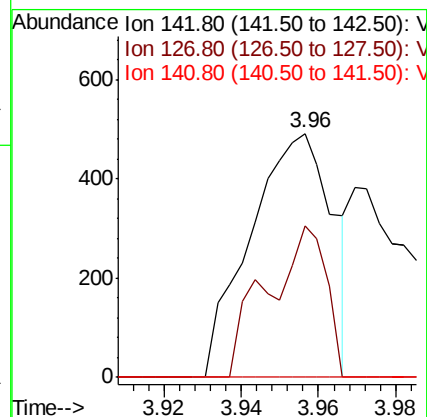
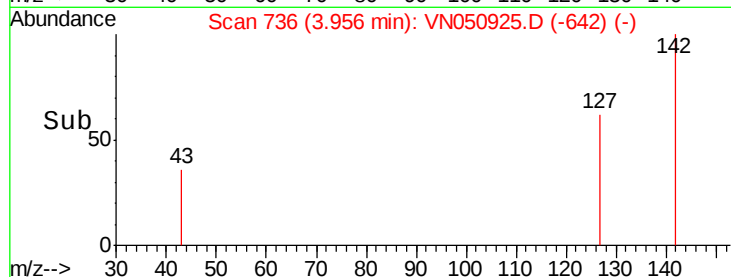
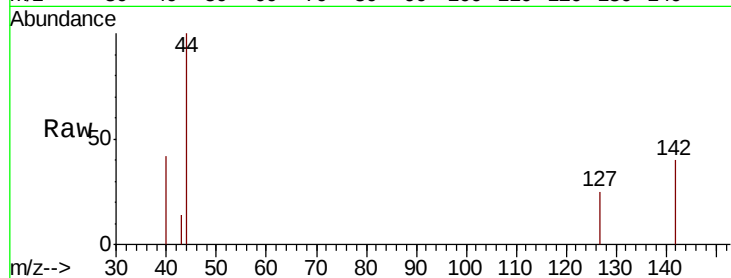
Tot Ion:142 Resp: 727

Ion Ratio Lower Upper

142 100

127 26.3 31.7 47.5#

141 0.0 11.4 17.0#



#16

Acetone

Concen: 1.37 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN050925.D

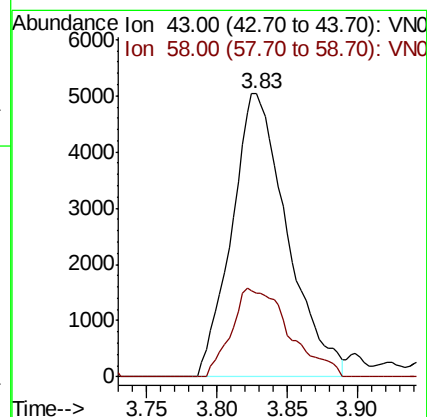
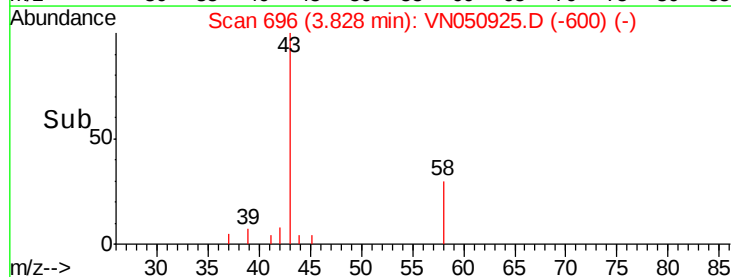
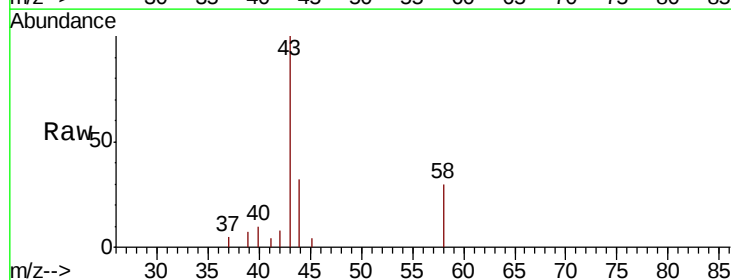
Acq: 28 Aug 2018 20:17

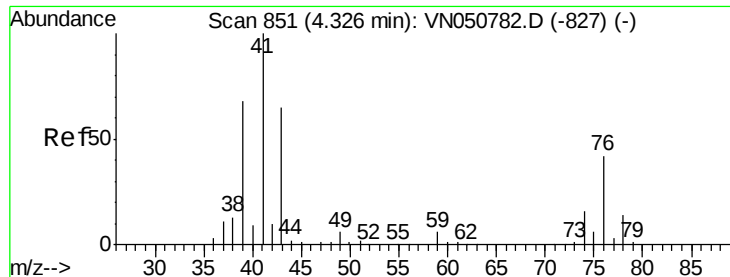
Tgt Ion: 43 Resp: 13828

Ion Ratio Lower Upper

43 100

58 29.7 27.2 40.8

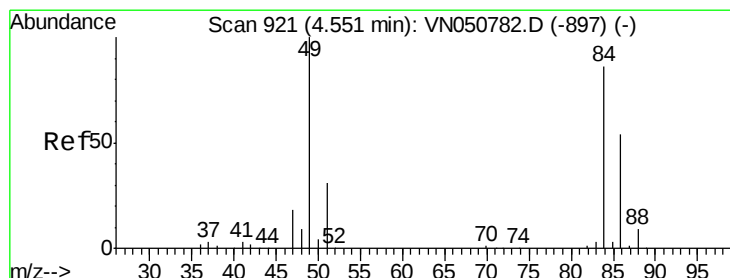
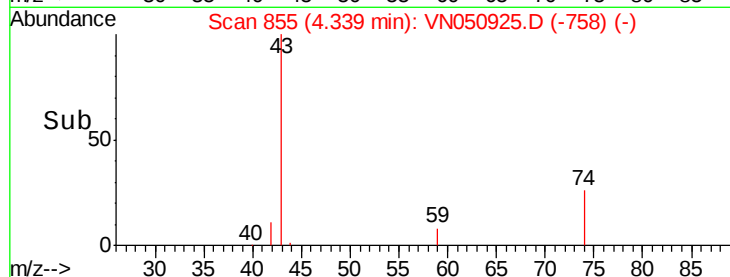
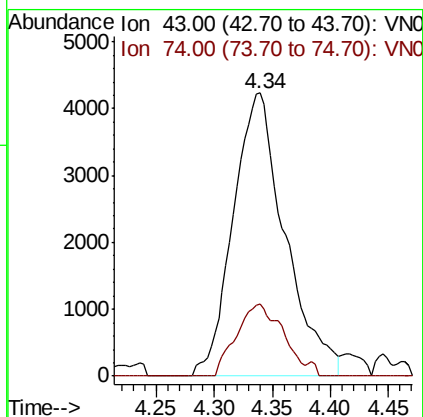
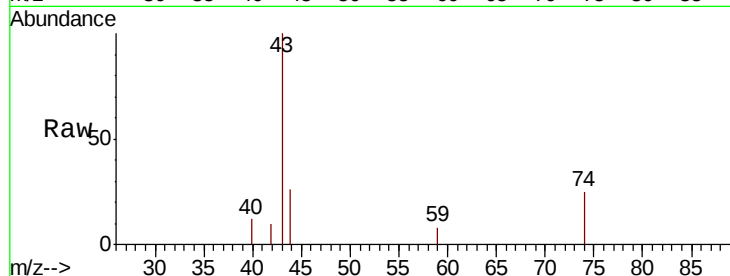




#18
Methyl Acetate
Concen: 2.00 ug/l
RT: 4.34 min Scan# 855
Delta R.T. 0.01 min
Lab File: VN050925.D
Acq: 28 Aug 2018 20:17

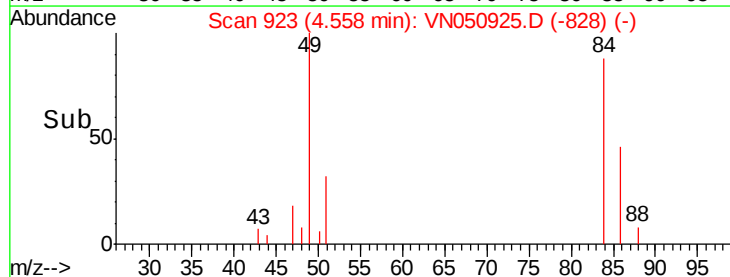
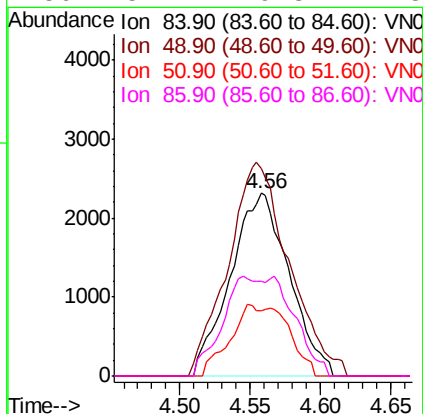
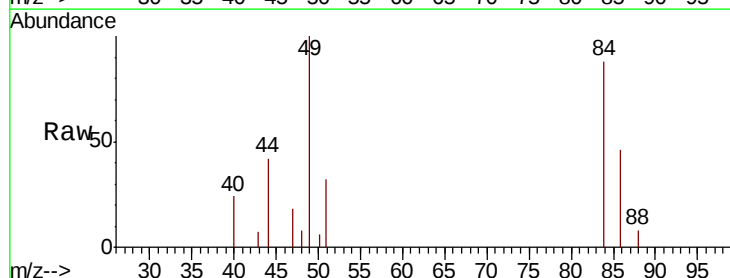
Instrument :
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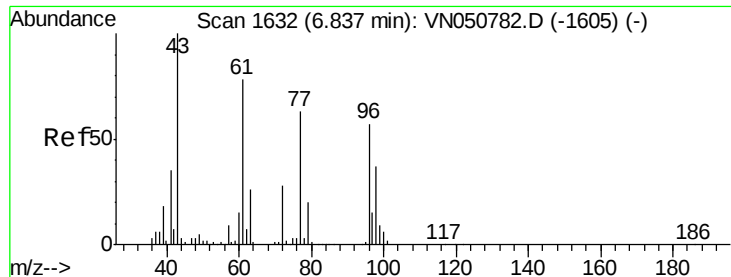
Tot Ion: 43 Resp: 13162
Ion Ratio Lower Upper
43 100
74 22.5 19.8 29.8



#20
Methylene Chloride
Concen: 0.86 ug/l
RT: 4.56 min Scan# 923
Delta R.T. 0.01 min
Lab File: VN050925.D
Acq: 28 Aug 2018 20:17

Tgt Ion: 84 Resp: 6733
Ion Ratio Lower Upper
84 100
49 113.1 93.2 139.8
51 35.8 29.0 43.6
86 51.7 49.8 74.8

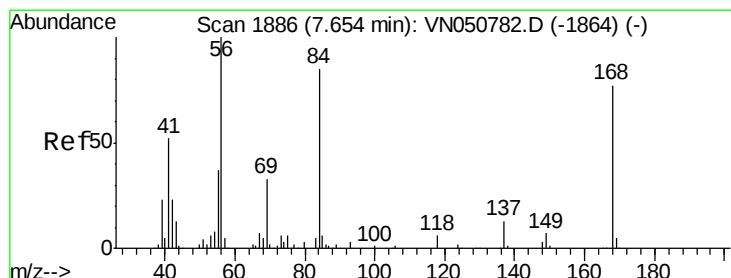
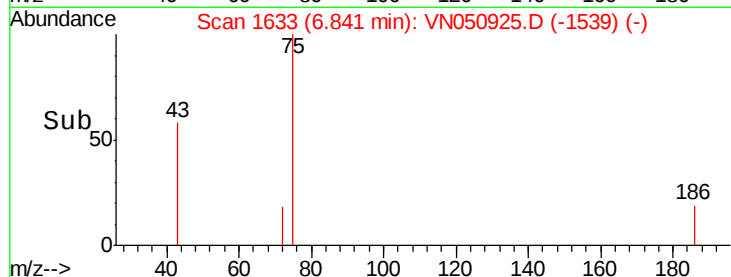
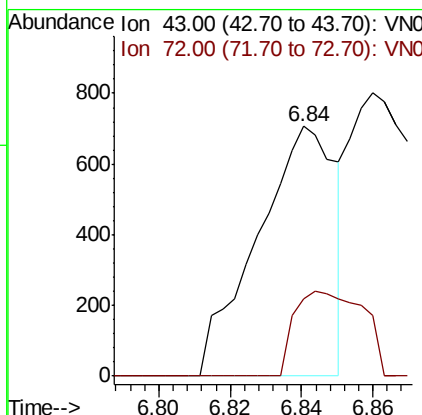
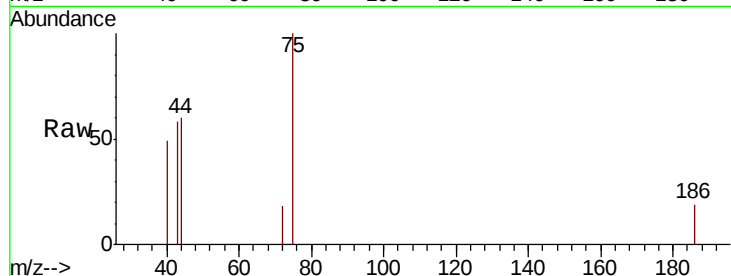




#25
2-Butanone
Concen: 0.38 ug/l
RT: 6.84 min Scan# 1633
Delta R.T. 0.00 min
Lab File: VN050925.D
Acq: 28 Aug 2018 20:17

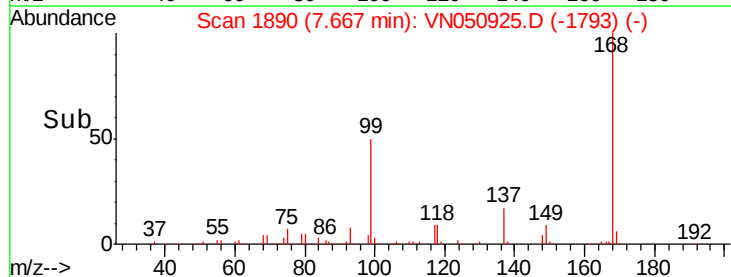
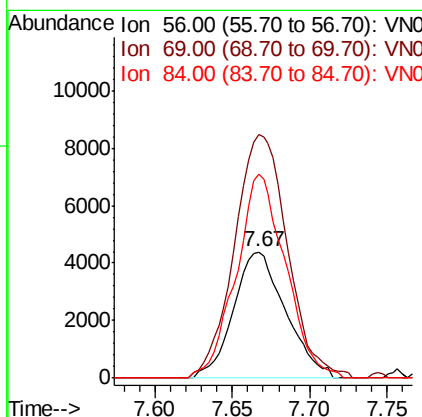
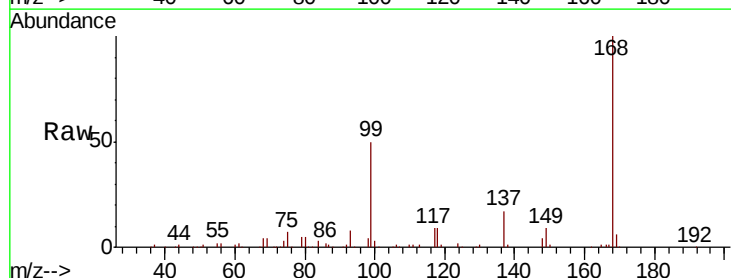
Instrument :
MSVOA_N
ClientSampleId :
PB112421ZHE#03

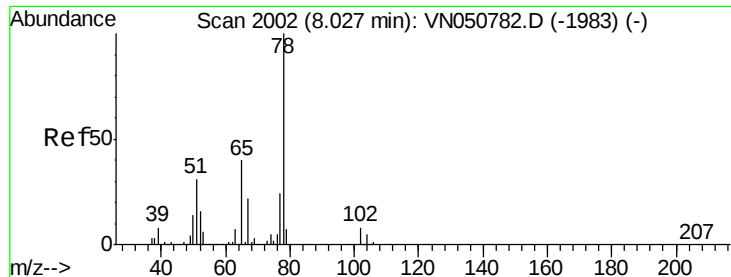
Tot Ion: 43 Resp: 1071
Ion Ratio Lower Upper
43 100
72 31.0 22.3 33.5



#31
Cyclohexane
Concen: 1.33 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN050925.D
Acq: 28 Aug 2018 20:17

Tgt Ion: 56 Resp: 10284
Ion Ratio Lower Upper
56 100
69 192.7 26.2 39.4#
84 161.2 68.3 102.5#

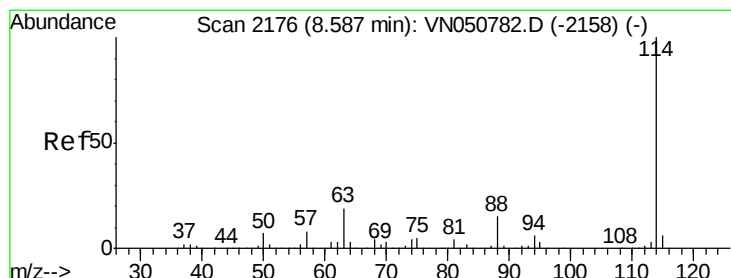
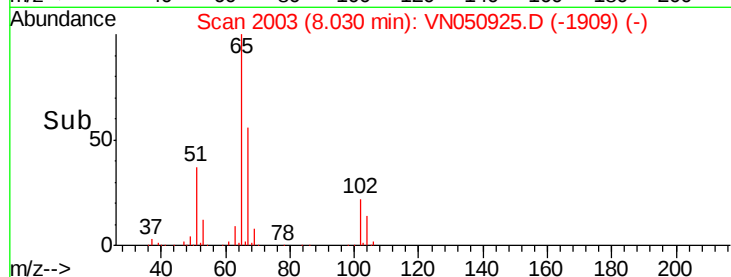
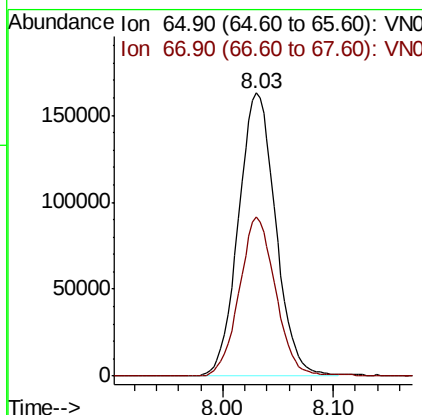
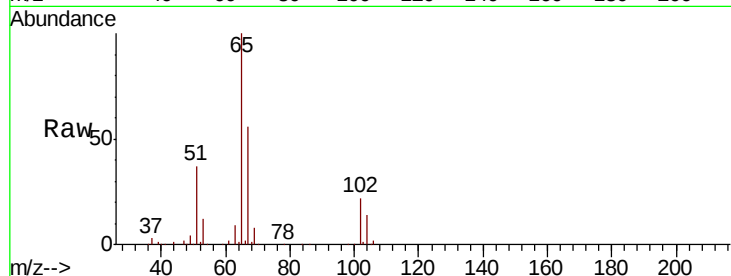




#33
 1,2-Dichloroethane-d4
 Concen: 54.71 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050925.D
 Acq: 28 Aug 2018 20:17

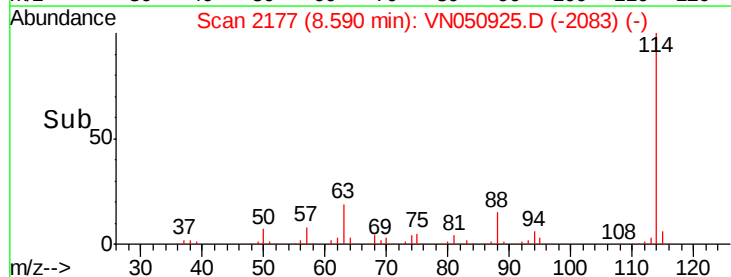
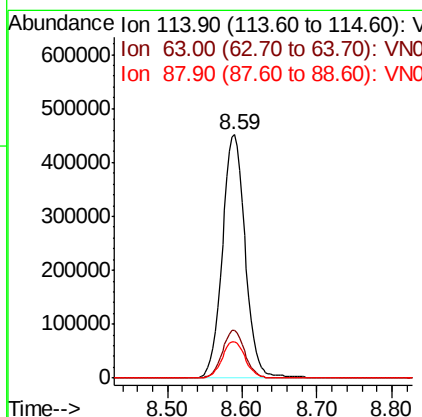
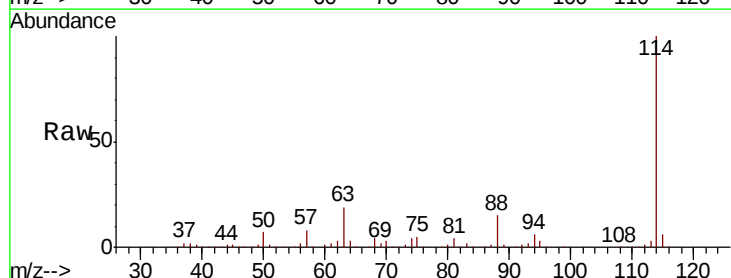
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112421ZHE#03

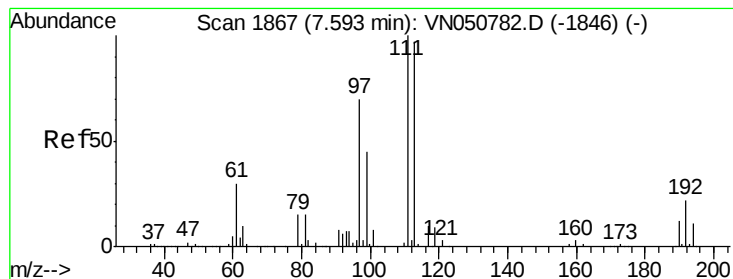
Tot Ion: 65 Resp: 380589
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050925.D
 Acq: 28 Aug 2018 20:17

Tgt Ion: 114 Resp: 951304
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 38.6
 88 15.1 0.0 30.6





#35

Dibromofluoromethane

Concen: 48.02 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. -0.00 min

Lab File: VN050925.D

Acq: 28 Aug 2018 20:17

Instrument :

MSVOA_N

ClientSampleId :

PB112421ZHE#03

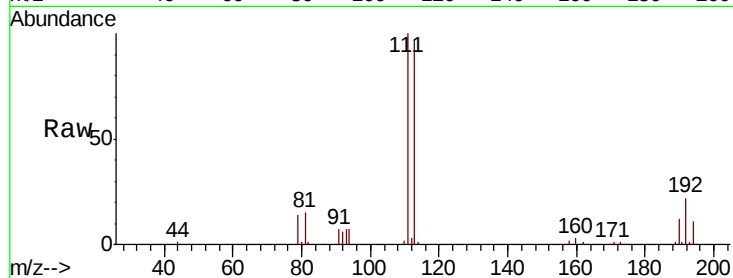
Tot Ion:113 Resp: 363412

Ion Ratio Lower Upper

113 100

111 102.6 82.6 123.8

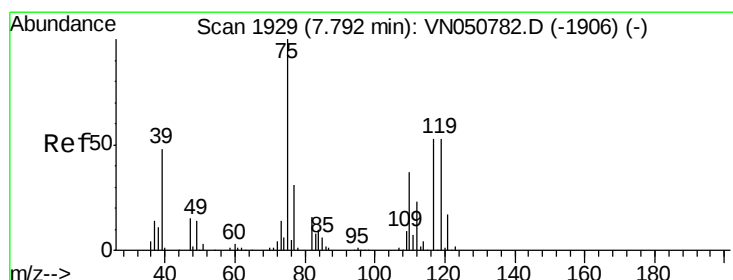
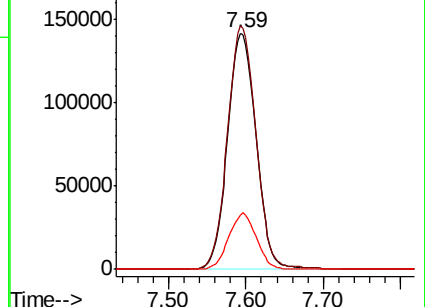
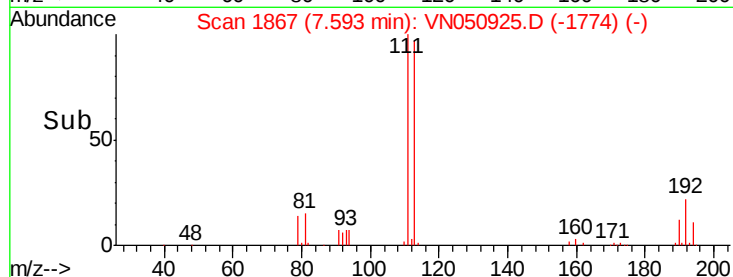
192 23.0 18.0 27.0



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: VN050925.D

Acq: 28 Aug 2018 20:17

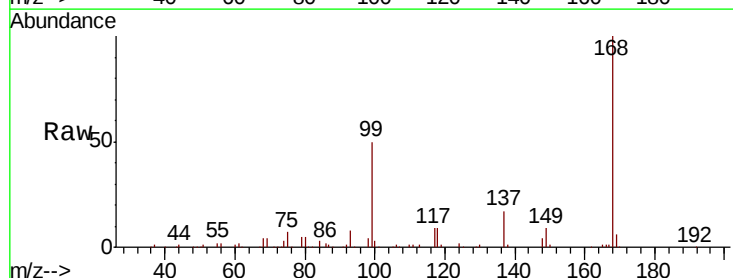
Tgt Ion: 75 Resp: 38990

Ion Ratio Lower Upper

75 100

110 8.3 18.1 54.4#

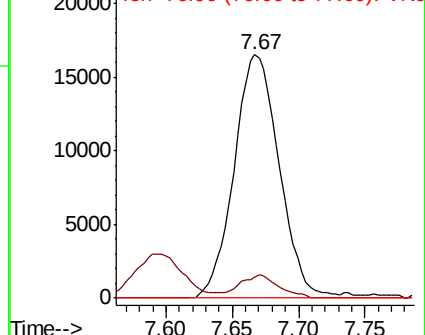
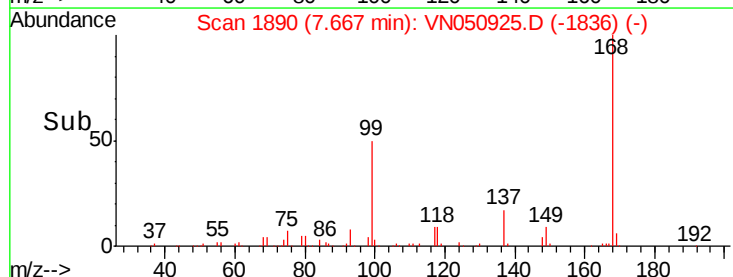
77 0.0 24.8 37.2#

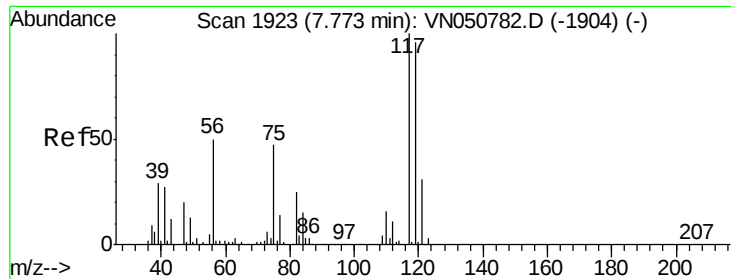


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

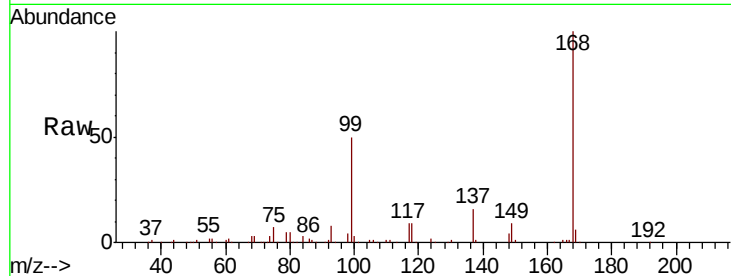




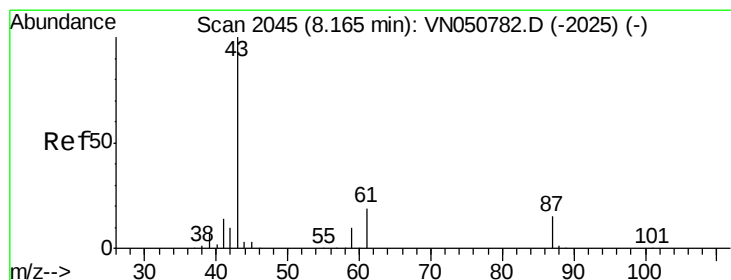
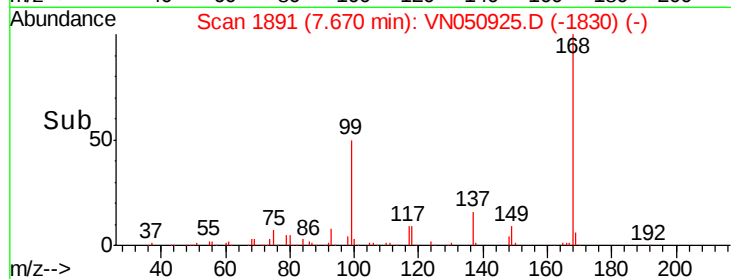
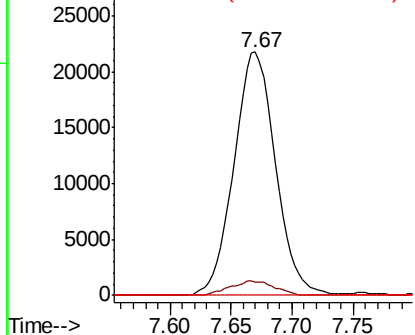
#38
Carbon Tetrachloride
Concen: 4.53 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.10 min
Lab File: VN050925.D
Acq: 28 Aug 2018 20:17

Instrument :
MSVOA_N
ClientSampleId :
PB112421ZHE#03

Tot Ion:117 Resp: 51441
Ion Ratio Lower Upper
117 100
119 5.5 76.3 114.5#
121 0.0 24.6 36.8#

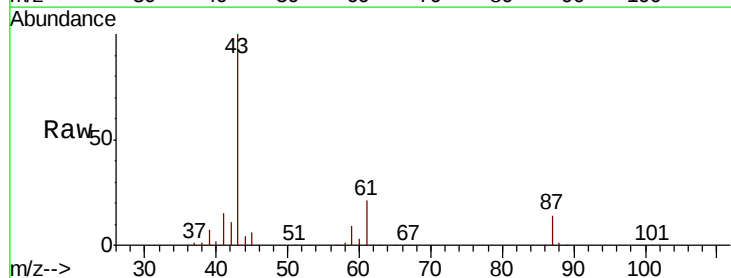


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

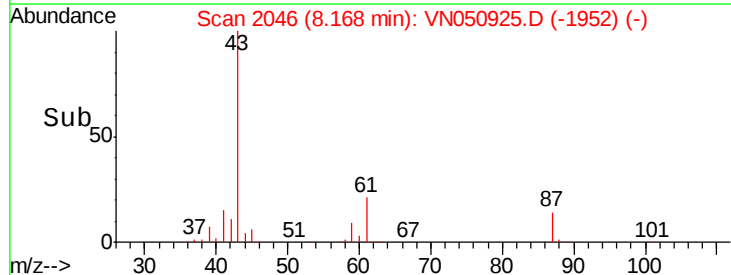
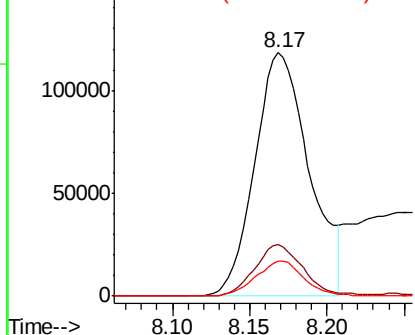


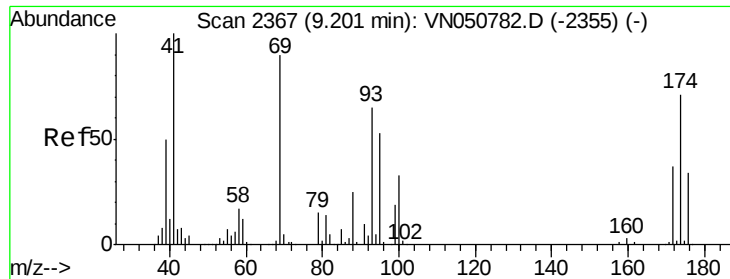
#43
Isopropyl Acetate
Concen: 26.23 ug/l
RT: 8.17 min Scan# 2046
Delta R.T. 0.00 min
Lab File: VN050925.D
Acq: 28 Aug 2018 20:17

Tgt Ion: 43 Resp: 290851
Ion Ratio Lower Upper
43 100
61 18.8 17.5 26.3
87 12.8 11.3 16.9



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

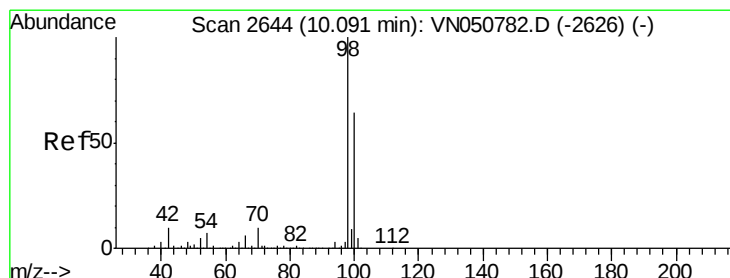
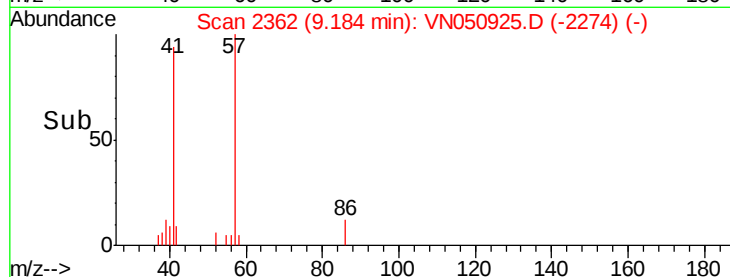
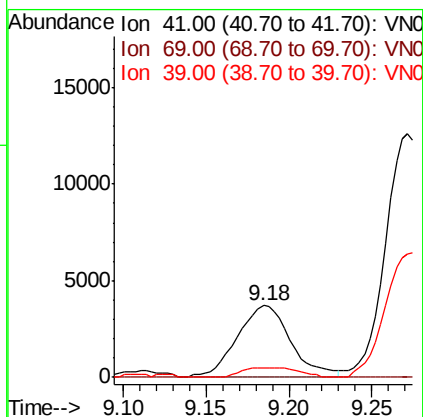
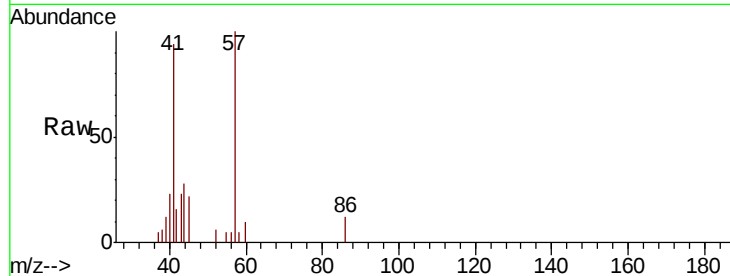




#48
Methvl methacrylate
Concen: 1.48 ug/l
RT: 9.18 min Scan# 2362
Delta R.T. -0.02 min
Lab File: VN050925.D
Acq: 28 Aug 2018 20:17

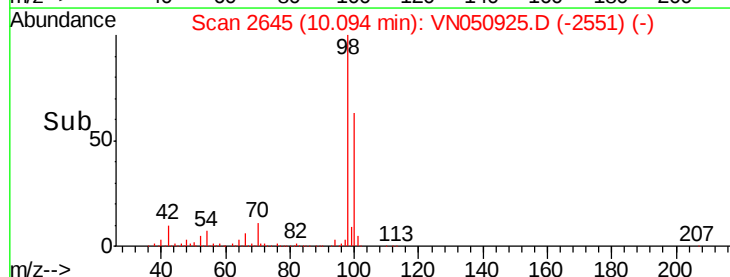
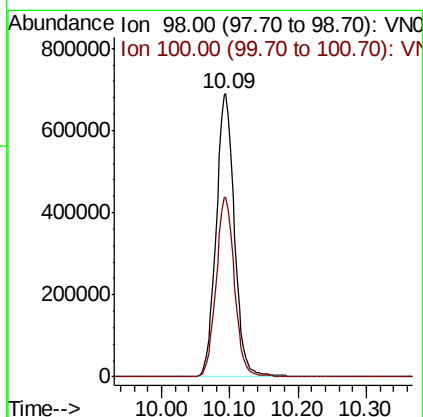
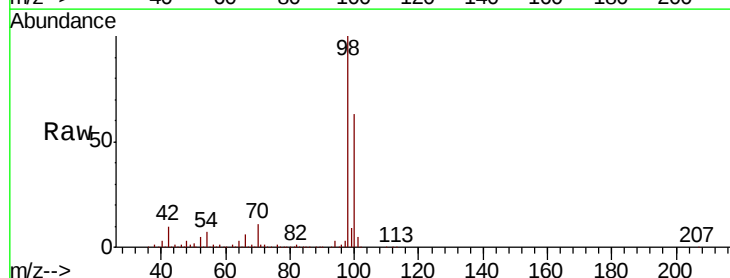
Instrument :
MSVOA_N
ClientSampleId :
PB112421ZHE#03

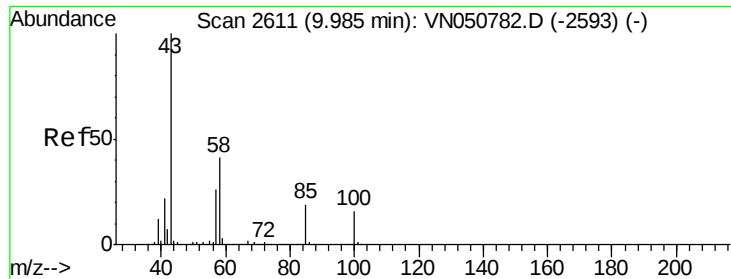
Tot Ion: 41 Resp: 8371
Ion Ratio Lower Upper
41 100
69 0.0 74.7 112.1#
39 7.2 42.2 63.2#



#50
Toluene-d8
Concen: 45.33 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050925.D
Acq: 28 Aug 2018 20:17

Tgt Ion: 98 Resp: 1282659
Ion Ratio Lower Upper
98 100
100 63.9 51.5 77.3

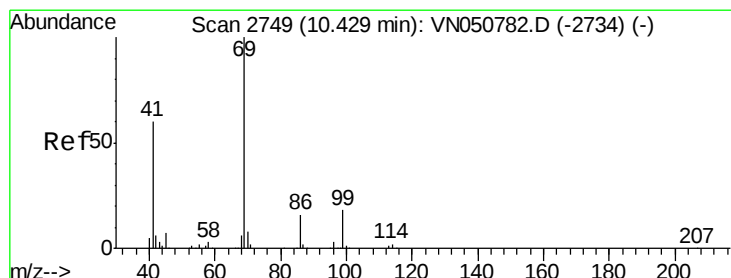
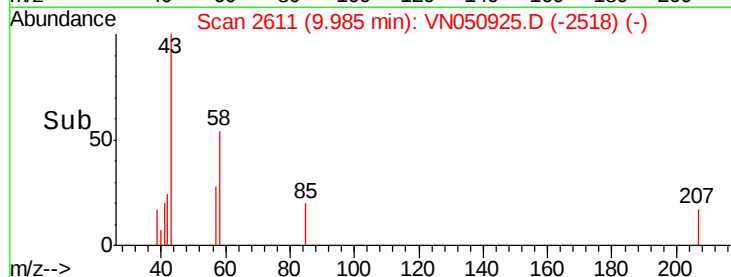
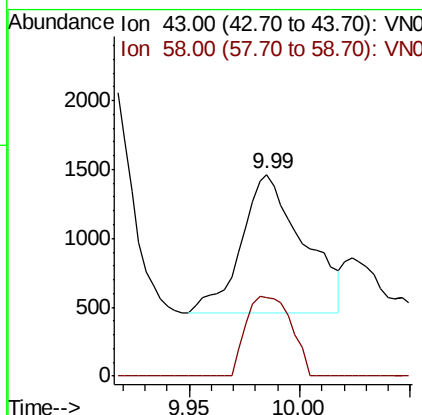
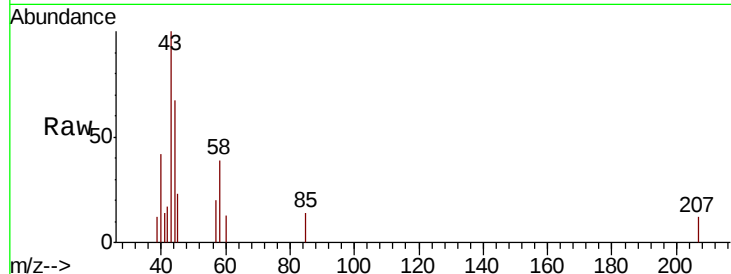




#51
4-Methyl-2-Pentanone
Concen: 0.30 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. -0.00 min
Lab File: VN050925.D
Acq: 28 Aug 2018 20:17

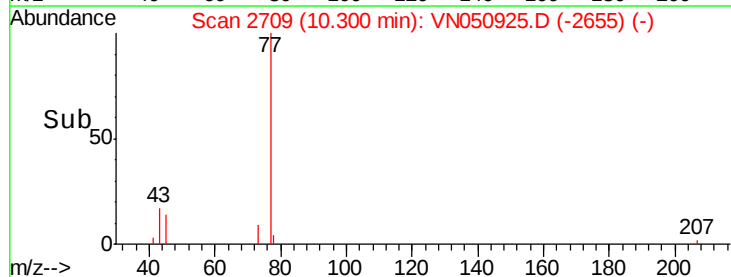
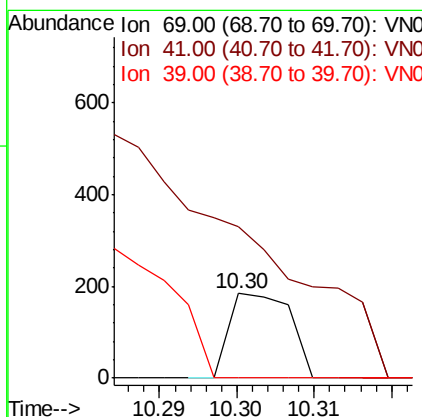
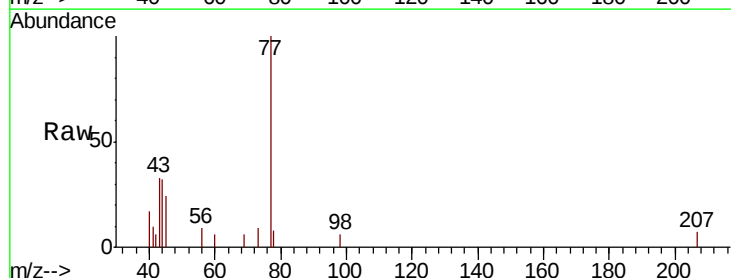
Instrument :
MSVOA_N
ClientSampleId :
PB112421ZHE#03

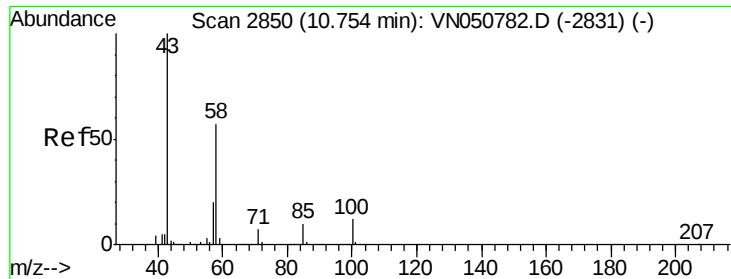
Tot Ion: 43 Resp: 1965
Ion Ratio Lower Upper
43 100
58 42.1 32.4 48.6



#56
Ethyl methacrylate
Concen: 2.36 ug/l
RT: 10.30 min Scan# 2709
Delta R.T. -0.13 min
Lab File: VN050925.D
Acq: 28 Aug 2018 20:17

Tgt Ion: 69 Resp: 101
Ion Ratio Lower Upper
69 100
41 1087.1 48.3 72.5#
39 509.9 24.0 36.0#





#59

2-Hexanone

Concen: 4.08 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050925.D

Acq: 28 Aug 2018 20:17

Instrument :

MSVOA_N

ClientSampleId :

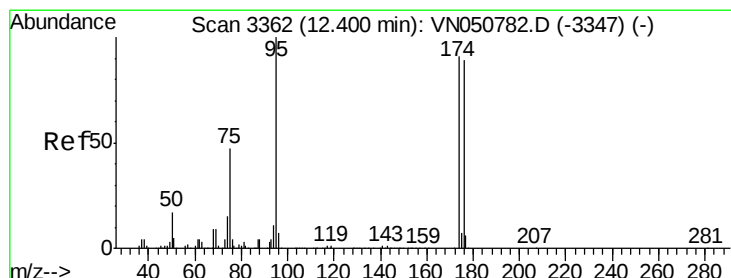
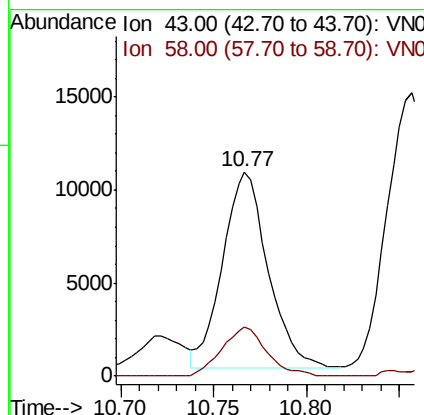
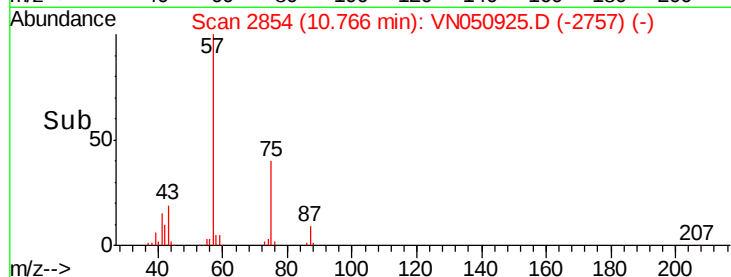
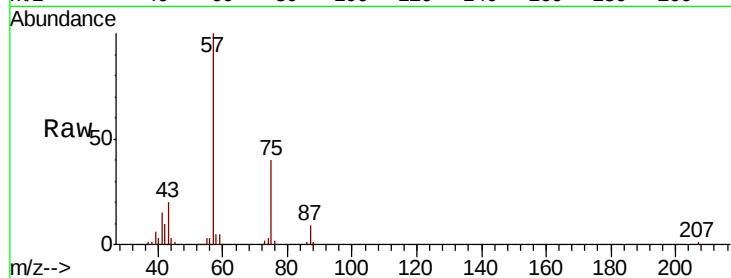
PB112421ZHE#03

Tot Ion: 43 Resp: 17973

Ion Ratio Lower Upper

43 100

58 24.7 28.3 85.0#



#62

4-Bromofluorobenzene

Concen: 36.15 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050925.D

Acq: 28 Aug 2018 20:17

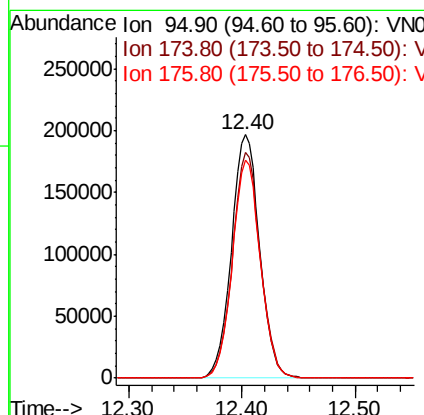
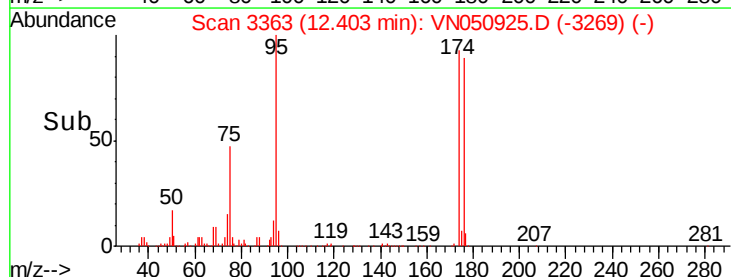
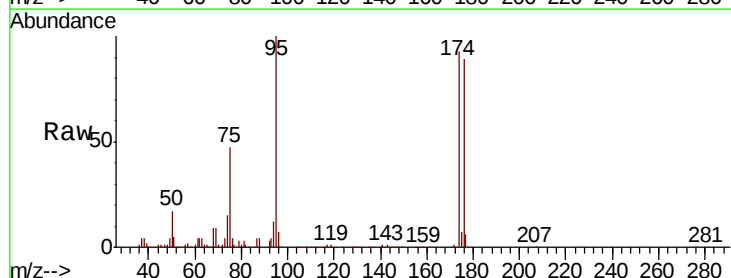
Tgt Ion: 95 Resp: 339918

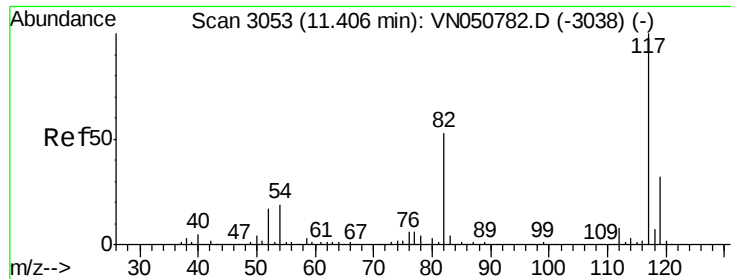
Ion Ratio Lower Upper

95 100

174 91.8 0.0 183.0

176 89.0 0.0 178.8

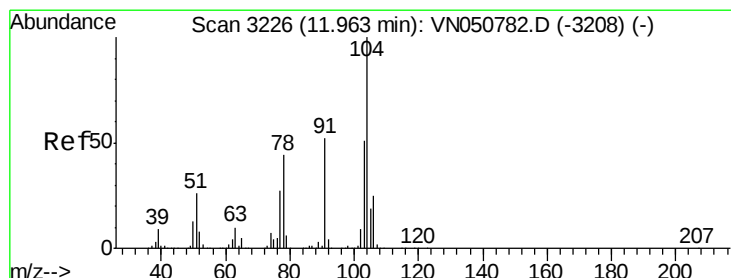
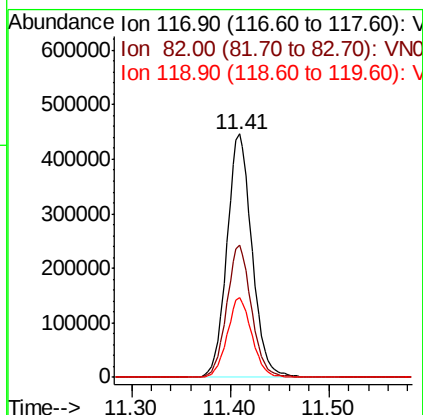
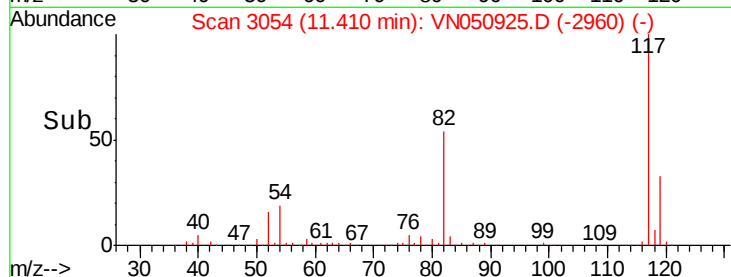
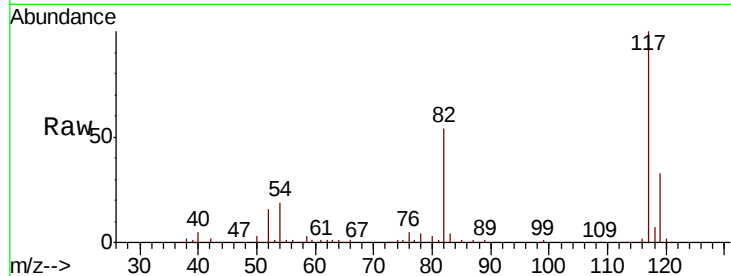




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050925.D
Acq: 28 Aug 2018 20:17

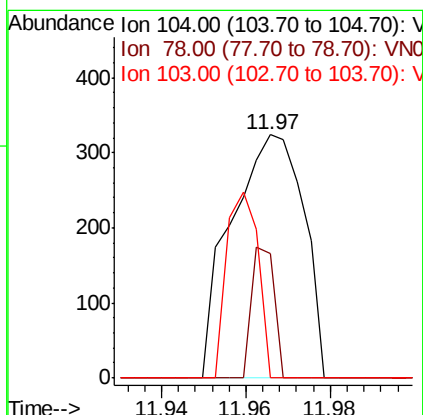
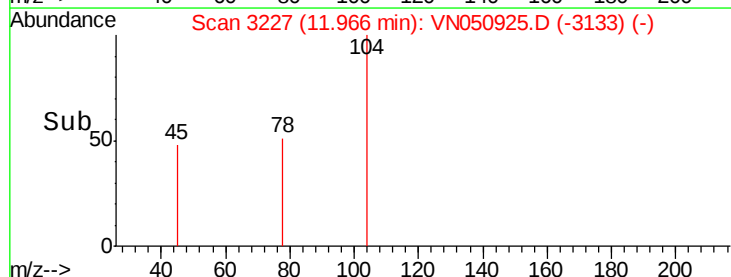
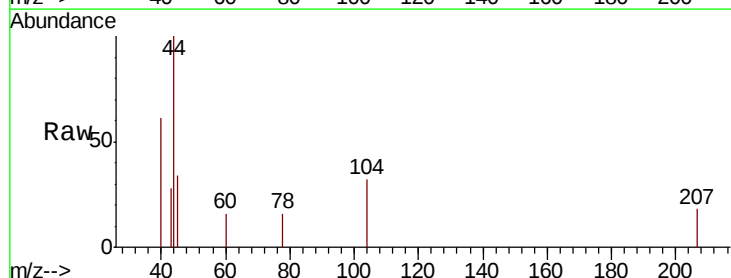
Instrument :
MSVOA_N
ClientSampleId :
PB112421ZHE#03

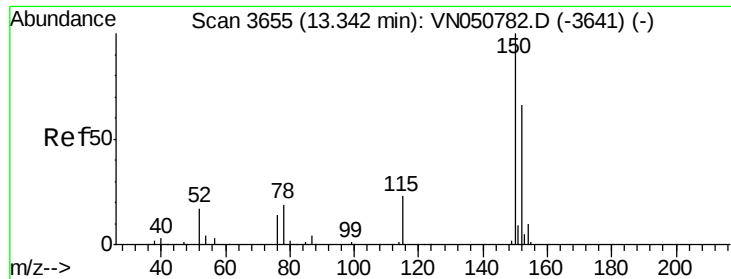
Tot Ion:117 Resp: 792933
Ion Ratio Lower Upper
117 100
82 54.1 42.6 64.0
119 32.6 25.8 38.6



#70
Styrene
Concen: 1.29 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050925.D
Acq: 28 Aug 2018 20:17

Tgt Ion:104 Resp: 385
Ion Ratio Lower Upper
104 100
78 17.1 38.2 57.4#
103 33.0 44.4 66.6#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050925.D

Acq: 28 Aug 2018 20:17

Instrument :

MSVOA_N

ClientSampleId :

PB112421ZHE#03

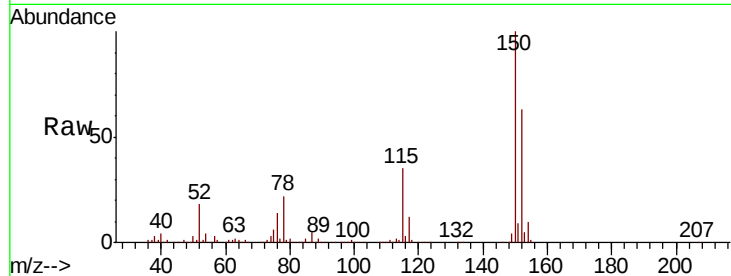
Tot Ion:152 Resp: 262819

Ion Ratio Lower Upper

152 100

115 55.8 27.8 83.4

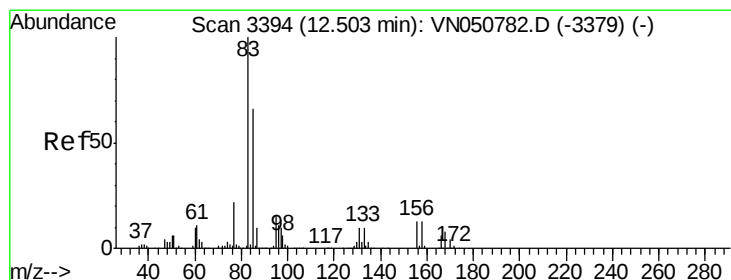
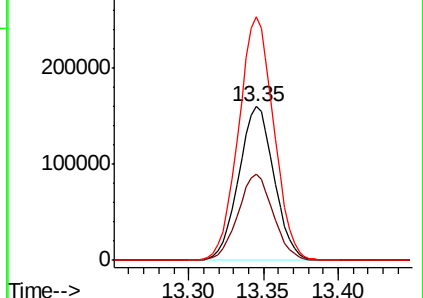
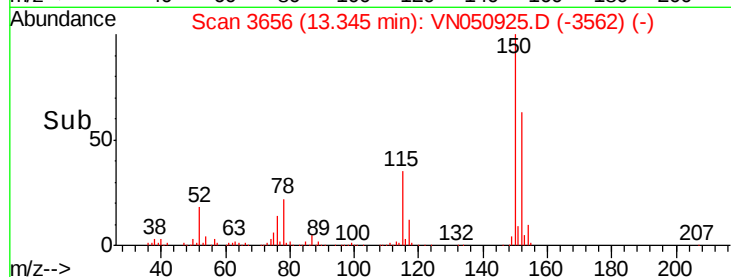
150 157.8 0.0 351.4



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



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3362

Delta R.T. -0.10 min

Lab File: VN050925.D

Acq: 28 Aug 2018 20:17

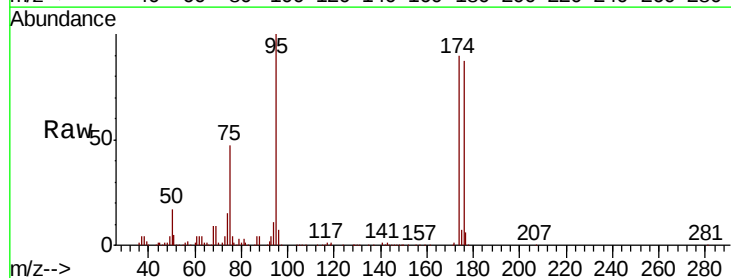
Tgt Ion: 83 Resp: 202

Ion Ratio Lower Upper

83 100

131 156.9 5.3 15.9#

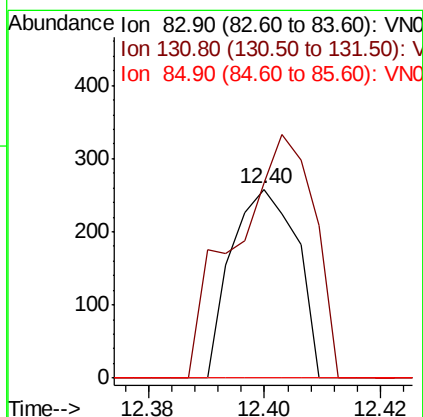
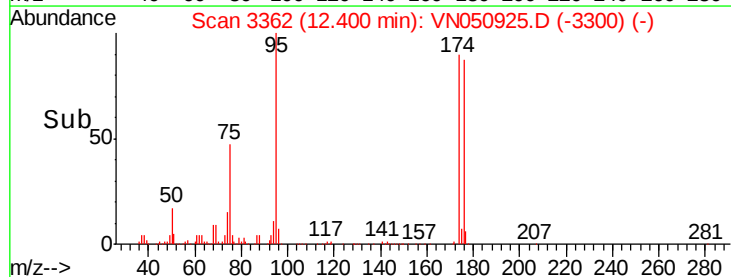
85 0.0 31.9 95.7#

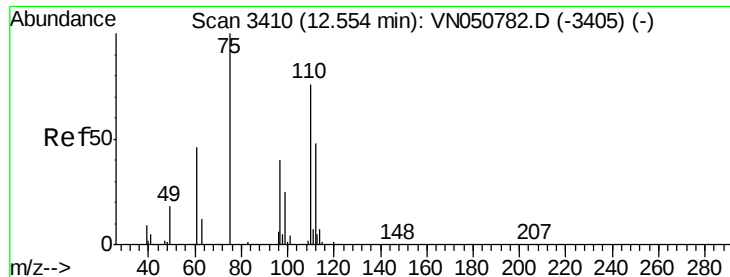


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 34.81 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050925.D

Acq: 28 Aug 2018 20:17

Instrument :

MSVOA_N

ClientSampleId :

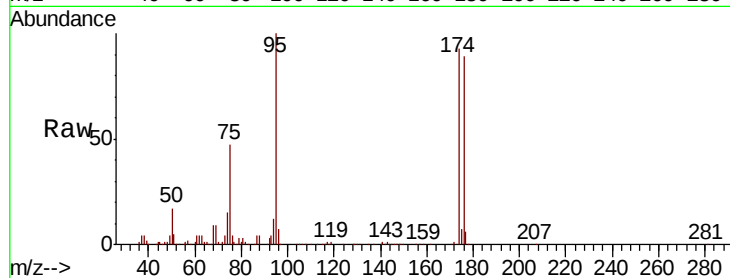
PB112421ZHE#03

Tot Ion: 75 Resp: 160234

Ion Ratio Lower Upper

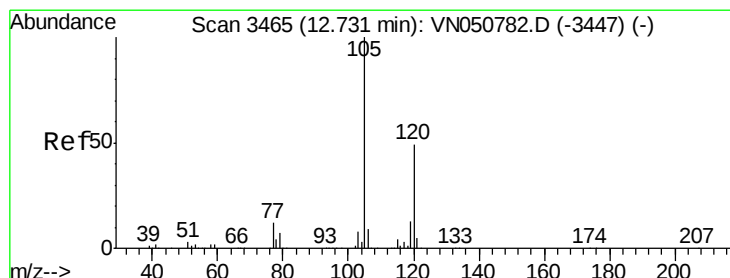
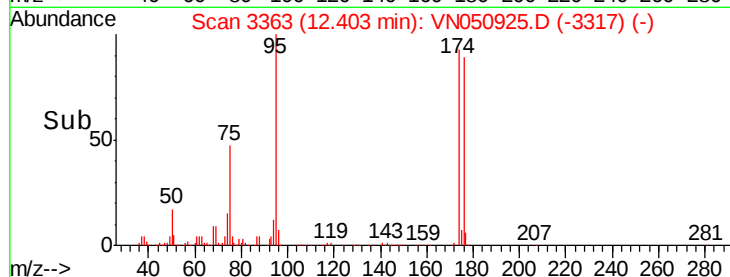
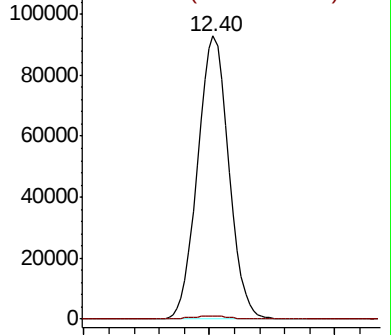
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#80

1,3,5-Trimethylbenzene

Concen: 0.25 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050925.D

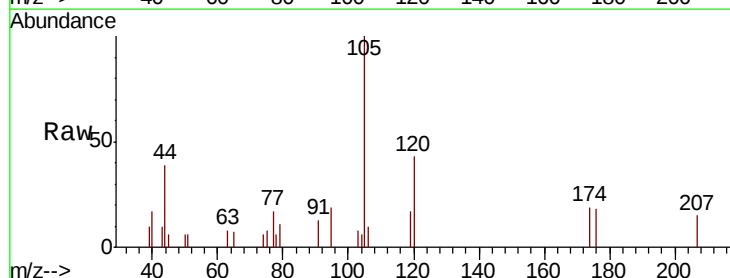
Acq: 28 Aug 2018 20:17

Tgt Ion: 105 Resp: 4419

Ion Ratio Lower Upper

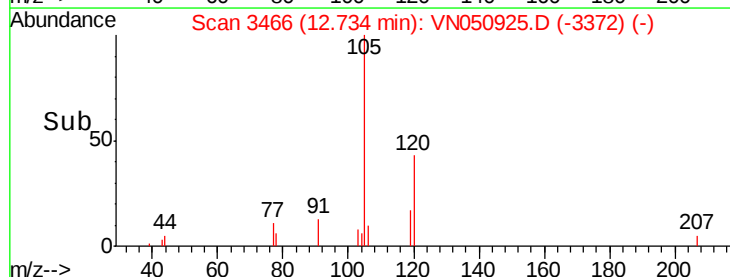
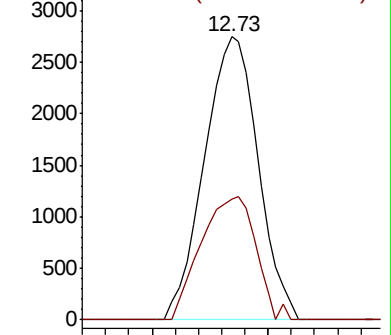
105 100

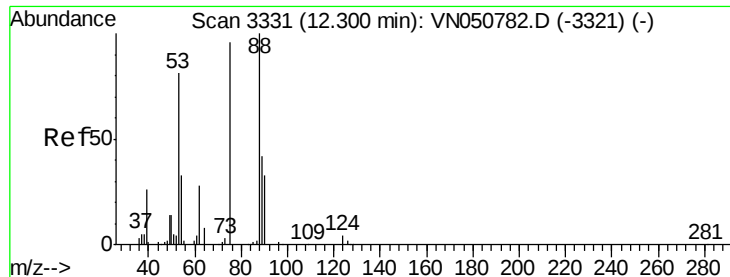
120 44.5 24.6 74.0



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: 117.67 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050925.D

Acq: 28 Aug 2018 20:17

Instrument :

MSVOA_N

ClientSampleId :

PB112421ZHE#03

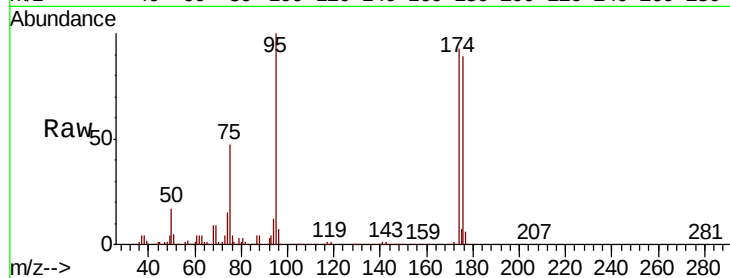
Tot Ion: 75 Resp: 160234

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): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

120000

100000

80000

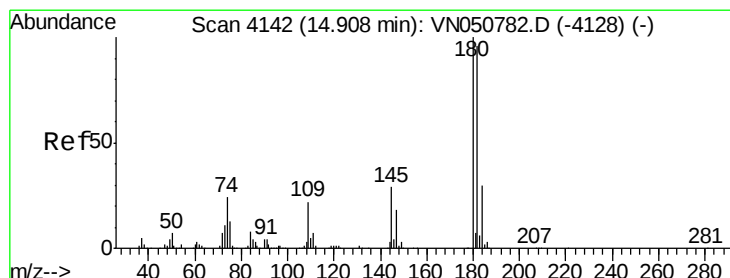
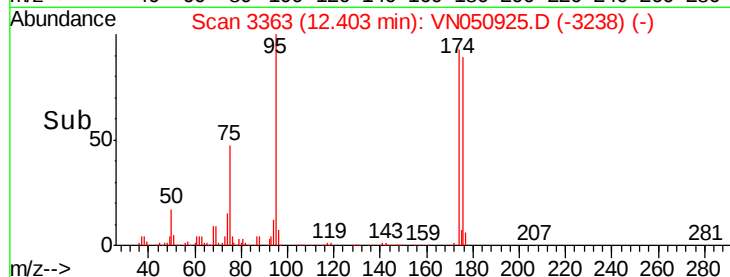
60000

40000

20000

0

Time--> 12.30 12.40 12.50



#93

1,2,4-Trichlorobenzene

Concen: 4.13 ug/l

RT: 14.91 min Scan# 4144

Delta R.T. 0.01 min

Lab File: VN050925.D

Acq: 28 Aug 2018 20:17

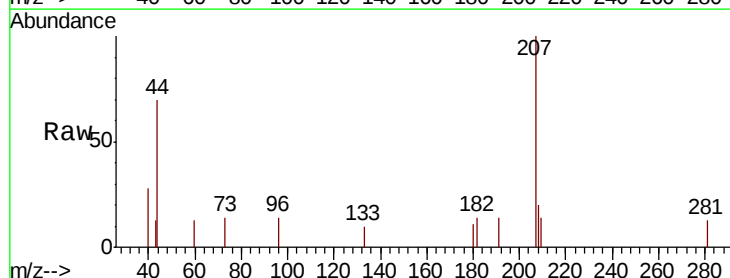
Tgt Ion: 180 Resp: 234

Ion Ratio Lower Upper

180 100

182 150.9 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

300

250

200

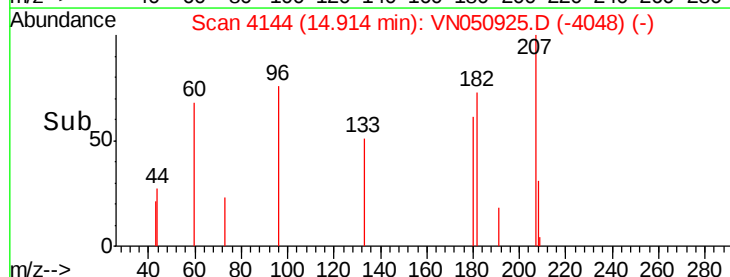
150

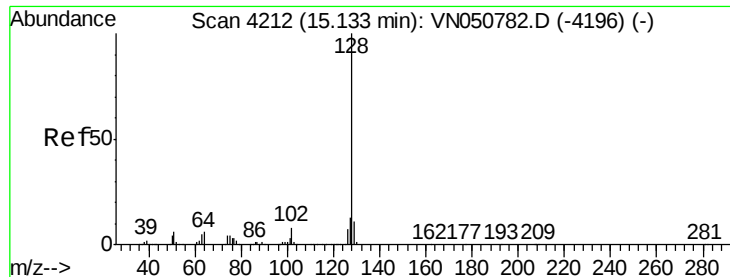
100

50

0

Time--> 14.88 14.90 14.92





#95

Naphthalene

Concen: 5.48 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN050925.D

Acq: 28 Aug 2018 20:17

Instrument :

MSVOA_N

ClientSampleId :

PB112421ZHE#03

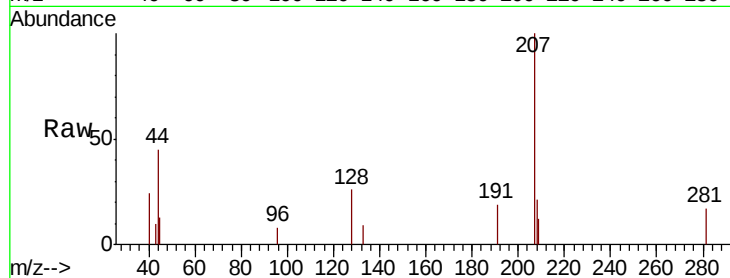
Tot Ion:128 Resp: 975

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.7 13.1#



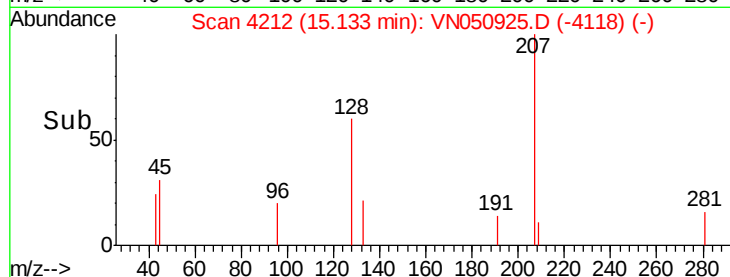
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

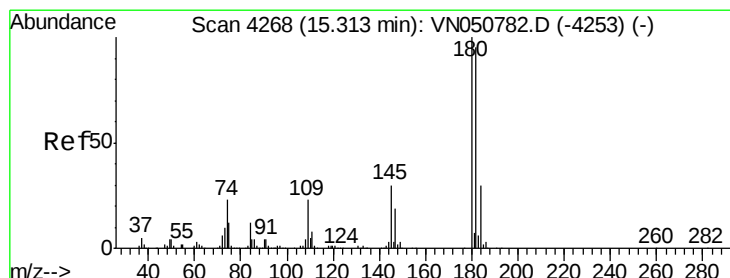
Ion 129.00 (128.70 to 129.70): V

15.13

15.15



Time-->



#96

1,2,3-Trichlorobenzene

Concen: 3.37 ug/l

RT: 15.32 min Scan# 4270

Delta R.T. 0.01 min

Lab File: VN050925.D

Acq: 28 Aug 2018 20:17

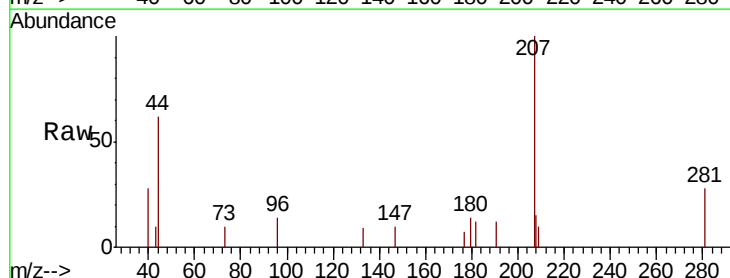
Tgt Ion:180 Resp: 364

Ion Ratio Lower Upper

180 100

182 61.5 48.0 144.2

145 0.0 15.2 45.6#



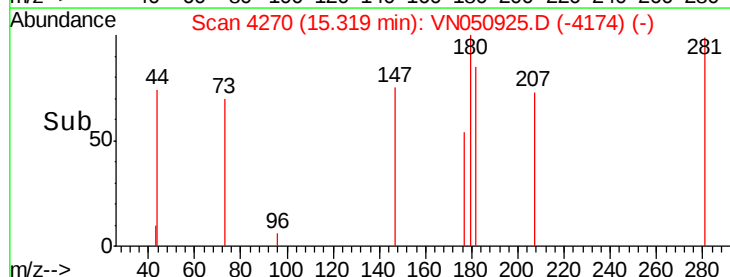
Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

15.32

15.34



Time-->