

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091818\
 Data File : VN051291.D
 Acq On : 18 Sep 2018 12:33
 Operator : MD\SY
 Sample : J4932-01 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 18 14:50:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:38:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	101893	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	510250	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	417443	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	187278	28.80	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.00%
60) 4-Bromofluorobenzene	12.40	95	126880	20.44	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	68.13%
63) Toluene-d8	10.09	98	590694	30.34	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.13%

Target Compounds

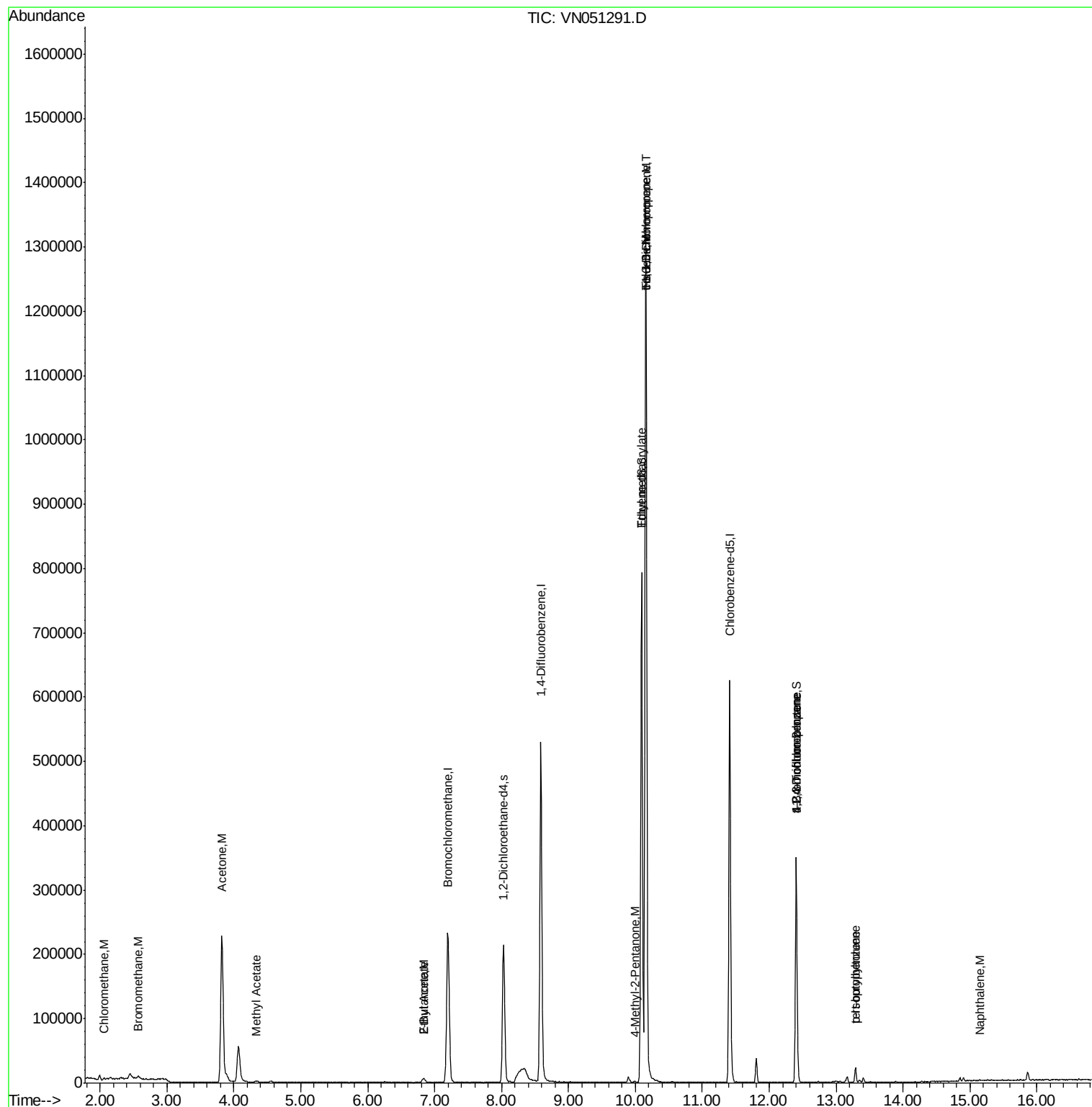
					Ovalue	
3) Chloromethane	2.06	50	1844	0.247	ug/l	96
5) Bromomethane	2.57	94	2587	0.575	ug/l	91
12) Methyl Acetate	4.34	43	1281	0.201	ug/l #	45
15) Acetone	3.82	58	136373	247.583	ug/l	91
30) 2-Butanone	6.85	43	2616	1.113	ug/l #	96
43) Ethyl Acetate	6.85	43	2616	0.543	ug/l	95
48) t-1,3-Dichloropropene	10.16	75	7081	0.922	ug/l #	1
49) cis-1,3-Dichloropropene	10.16	75	7081	0.802	ug/l #	1
51) Ethyl methacrylate	10.10	69	1790	0.271	ug/l	78
58) 4-Methyl-2-Pentanone	9.99	43	1253	0.262	ug/l #	58
62) Toluene	10.16	91	1104503	47.426	ug/l	99
72) 1,2,3-Trichloropropane	12.40	75	57629	10.469	ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	57629	36.747	ug/l #	13
79) tert-butylbenzene	13.29	119	12276	0.734	ug/l	61
82) p-Isopropyltoluene	13.29	119	12276	0.650	ug/l	97
91) Naphthalene	15.13	128	1354	8.673	ug/l #	69

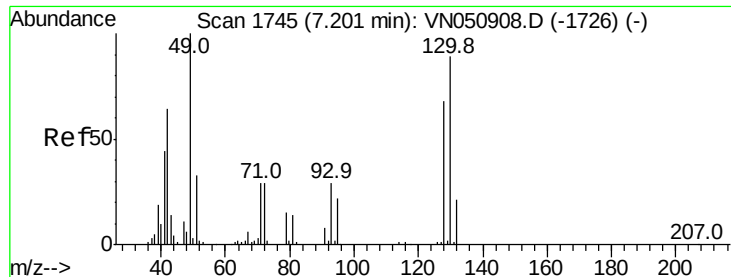
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN051291.D

Acq: 18 Sep 2018 12:33

Instrument :

MSVOA_N

ClientSampleId :

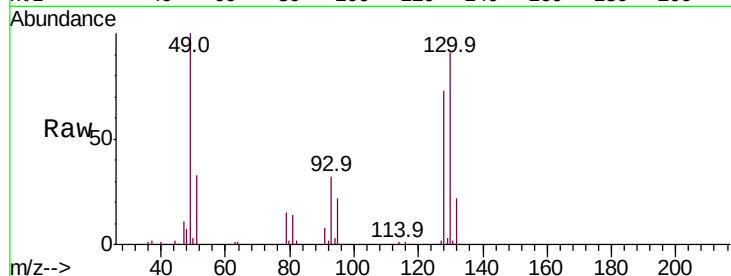
Tot Ion:128 Resp: 101893

Ion Ratio Lower Upper

128 100

49 138.6 0.0 380.3

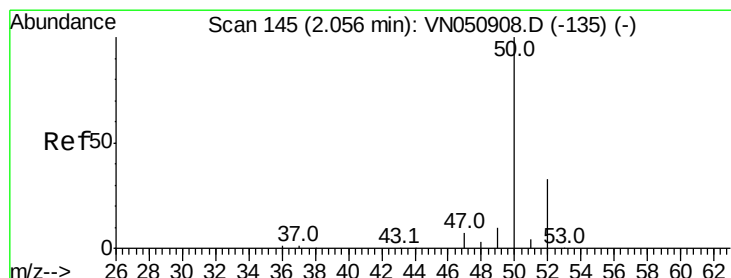
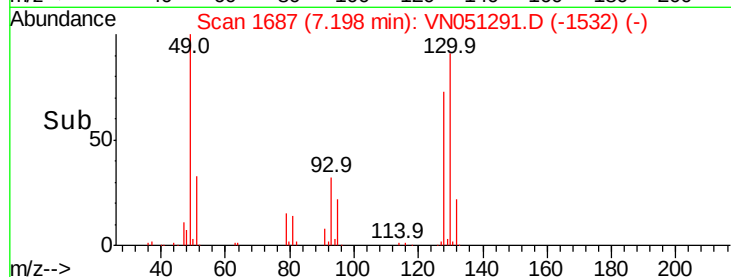
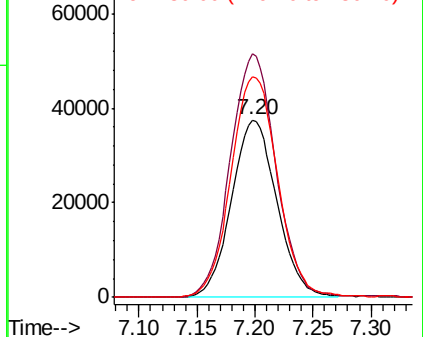
130 128.6 0.0 325.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.247 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN051291.D

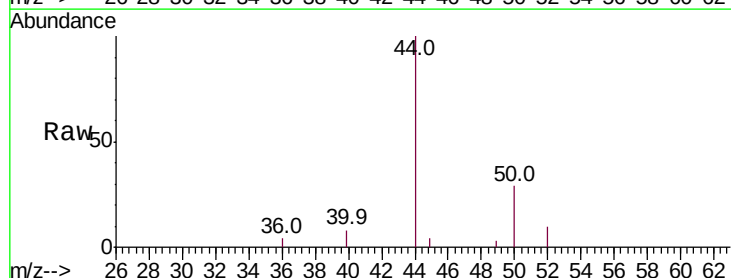
Acq: 18 Sep 2018 12:33

Tgt Ion: 50 Resp: 1844

Ion Ratio Lower Upper

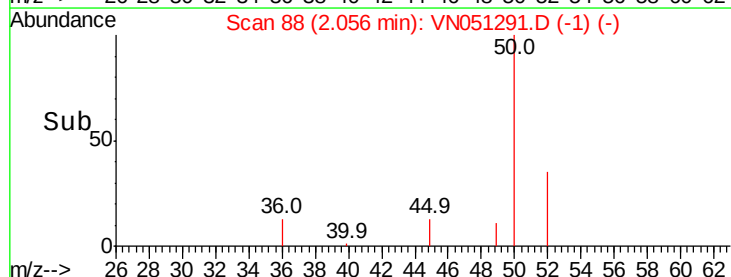
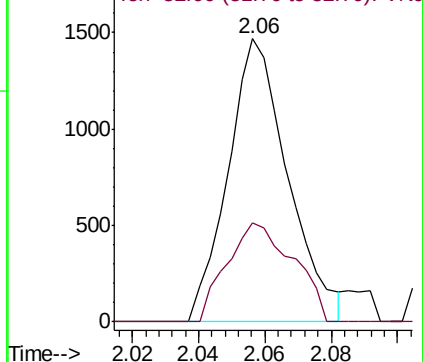
50 100

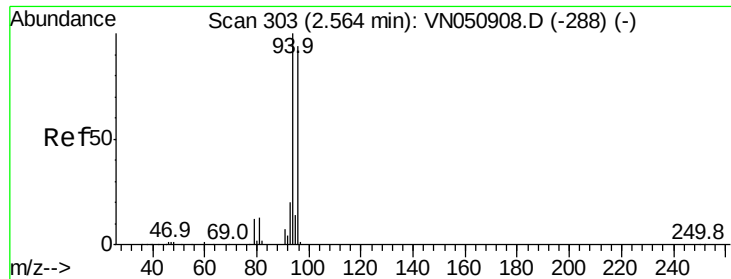
52 34.9 26.2 39.4



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#5

Bromomethane

Concen: 0.575 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051291.D

Acq: 18 Sep 2018 12:33

Instrument :

MSVOA_N

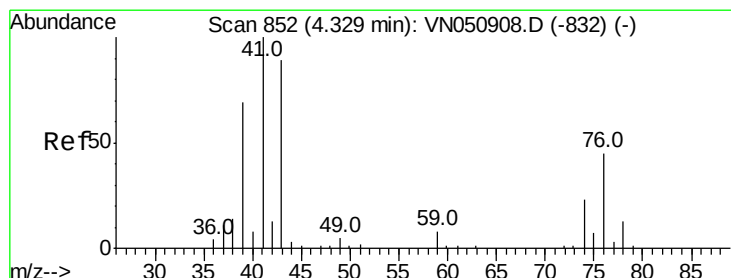
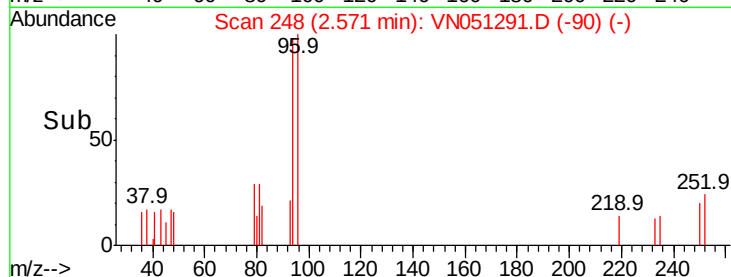
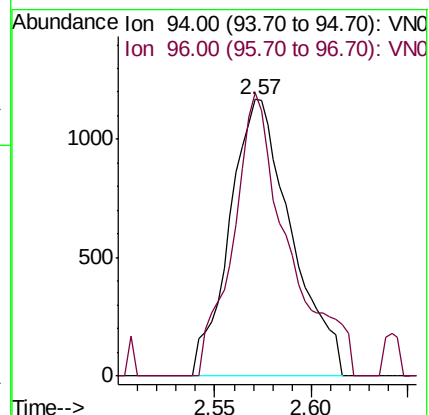
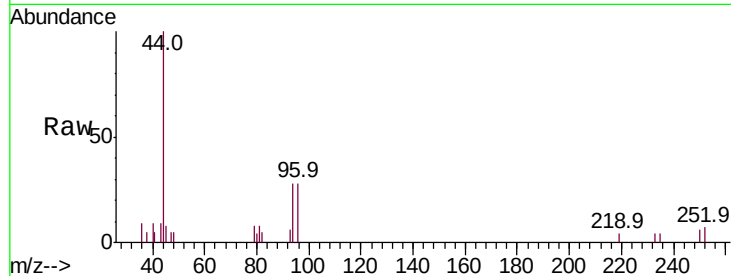
ClientSampled :

Tot Ion: 94 Resp: 2587

Ion Ratio Lower Upper

94 100

96 102.2 74.9 112.3



#12

Methyl Acetate

Concen: 0.201 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN051291.D

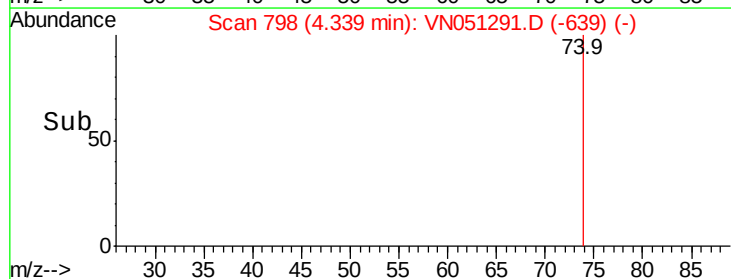
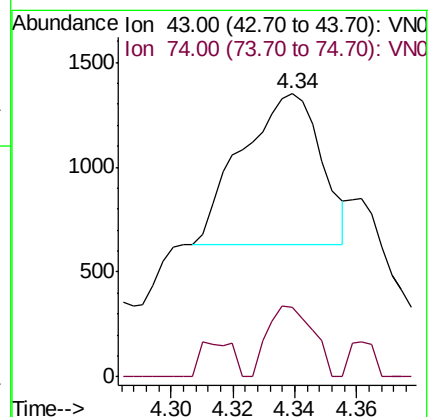
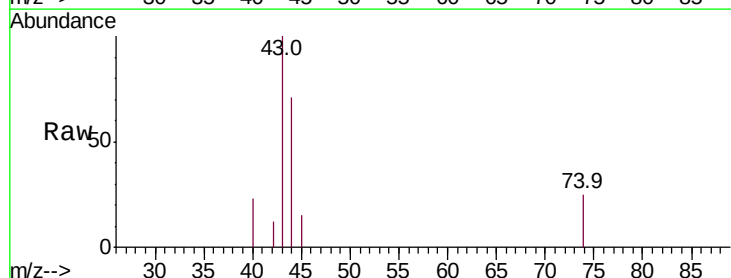
Acq: 18 Sep 2018 12:33

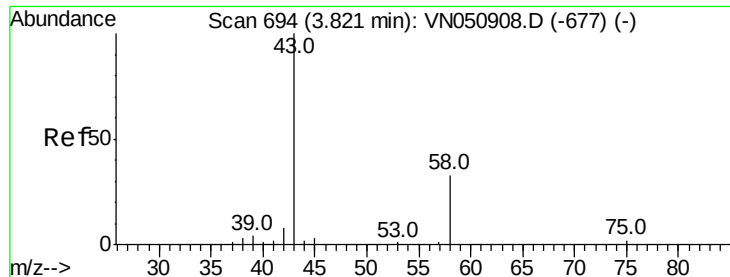
Tgt Ion: 43 Resp: 1281

Ion Ratio Lower Upper

43 100

74 54.0 20.6 31.0#





#15

Acetone

Concen: 247.583 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN051291.D

Acq: 18 Sep 2018 12:33

Instrument :

MSVOA_N

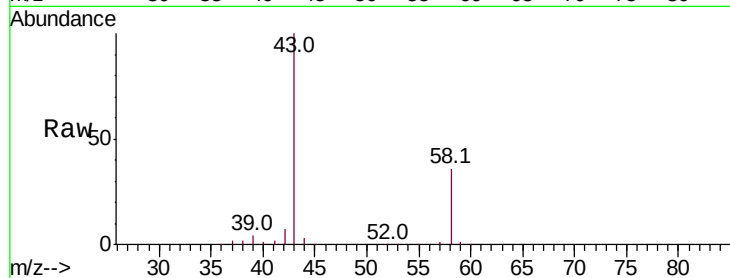
ClientSampled :

Tot Ion: 58 Resp: 136373

Ion Ratio Lower Upper

58 100

43 280.6 239.4 359.0



Abundance Ion 58.00 (57.70 to 58.70): VN050908.D (-677) (-)

Ion 43.00 (42.70 to 43.70): VN050908.D (-677) (-)

150000

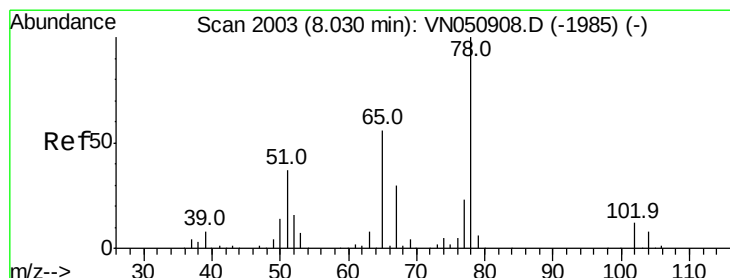
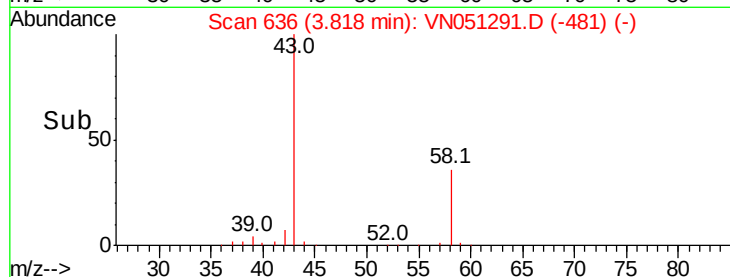
100000

50000

0

3.70 3.80 3.90

Time-->



#27

1,2-Dichloroethane-d4

Concen: 28.802 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051291.D

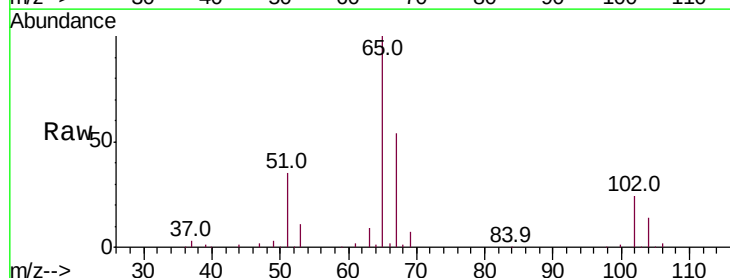
Acq: 18 Sep 2018 12:33

Tgt Ion: 65 Resp: 187278

Ion Ratio Lower Upper

65 100

67 53.6 43.7 65.5



Abundance Ion 65.00 (64.70 to 65.70): VN050908.D (-1985) (-)

Ion 67.00 (66.70 to 67.70): VN050908.D (-1985) (-)

80000

60000

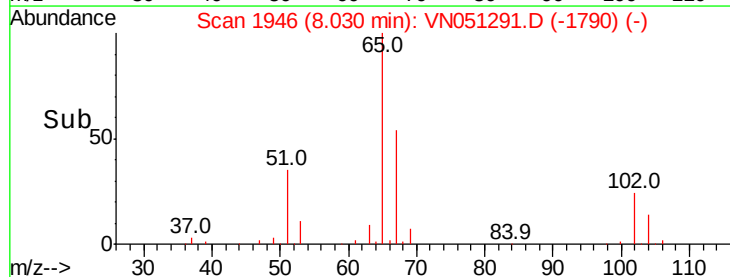
40000

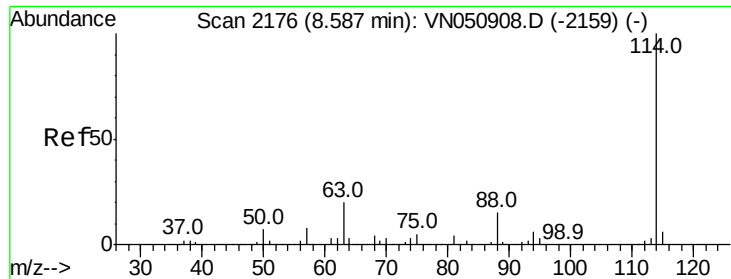
20000

0

8.00 8.10

Time-->

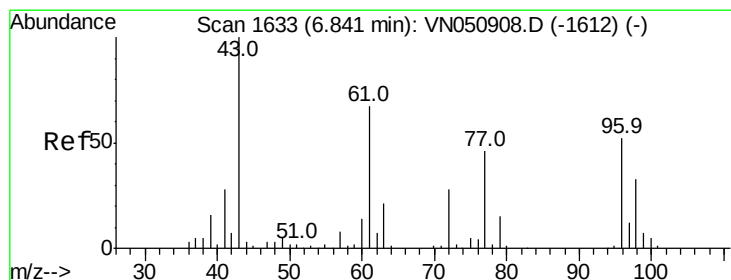
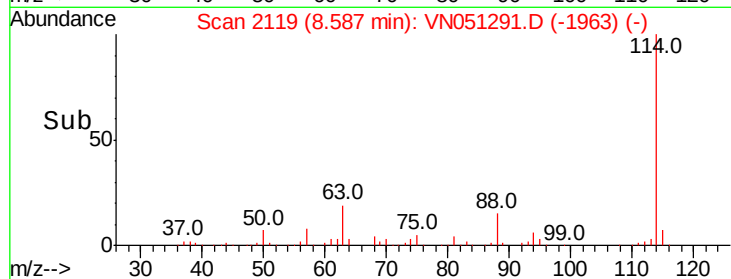
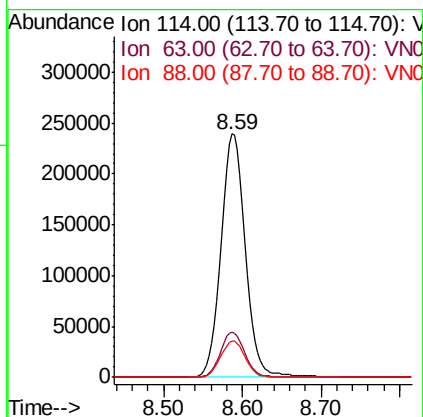
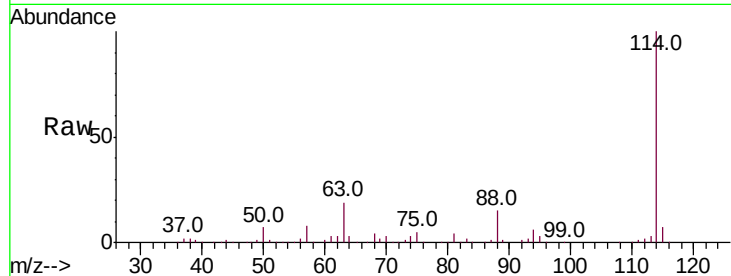




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051291.D
 Acq: 18 Sep 2018 12:33

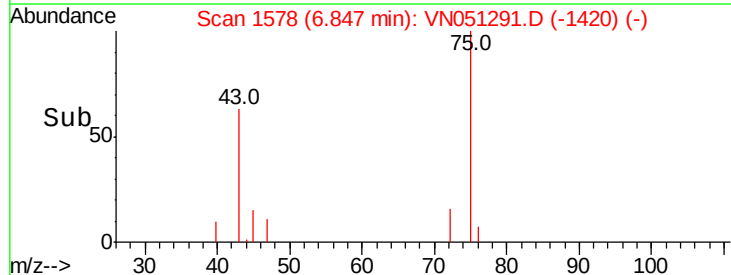
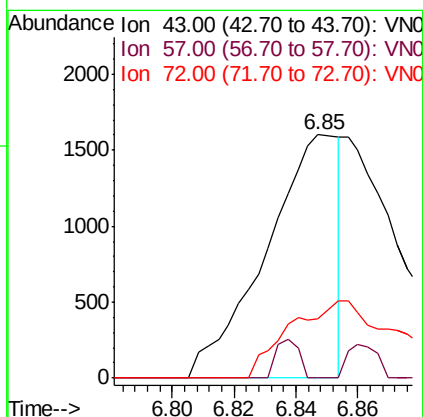
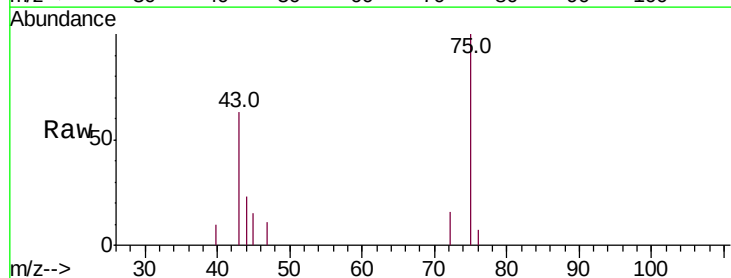
Instrument :
 MSVOA_N
 ClientSampleId :

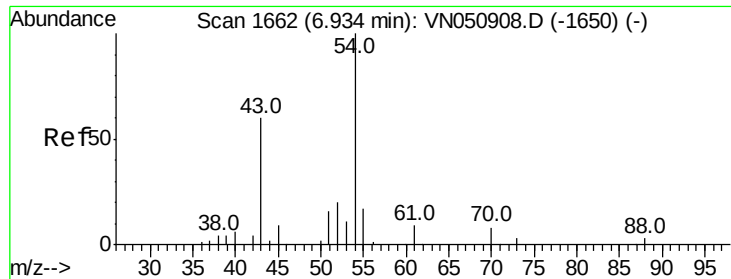
Tot Ion:114 Resp: 510250
 Ion Ratio Lower Upper
 114 100
 63 18.6 15.6 23.4
 88 15.2 12.2 18.4



#30
 2-Butanone
 Concen: 1.113 ug/l
 RT: 6.85 min Scan# 1578
 Delta R.T. 0.01 min
 Lab File: VN051291.D
 Acq: 18 Sep 2018 12:33

Tgt Ion: 43 Resp: 2616
 Ion Ratio Lower Upper
 43 100
 57 5.7 6.9 10.3#
 72 30.2 22.8 34.2





#43

Ethyl Acetate

Concen: 0.543 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. -0.09 min

Lab File: VN051291.D

Acq: 18 Sep 2018 12:33

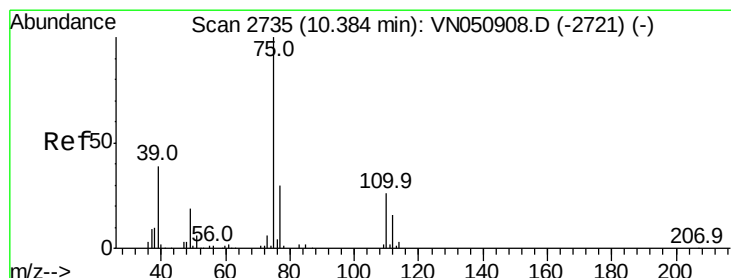
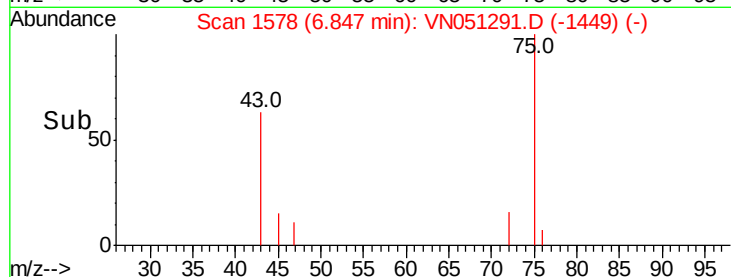
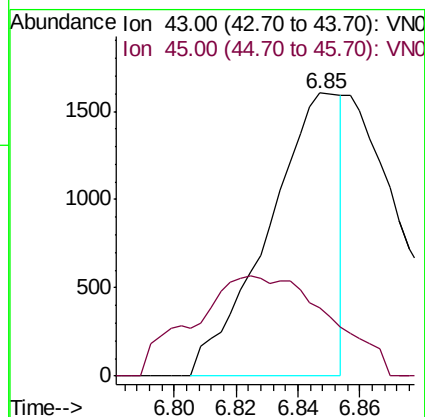
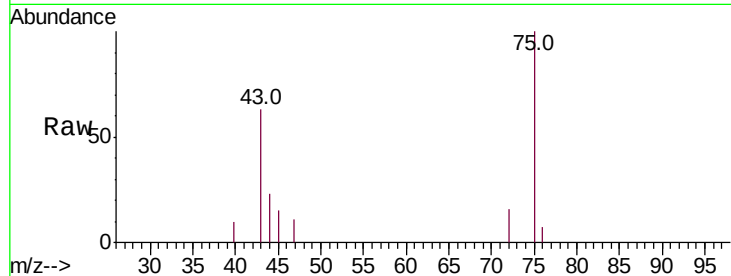
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 2616

Ion Ratio Lower Upper

43 100

45 14.8 10.2 15.2



#48

t-1,3-Dichloropropene

Concen: 0.922 ug/l

RT: 10.16 min Scan# 2608

Delta R.T. -0.23 min

Lab File: VN051291.D

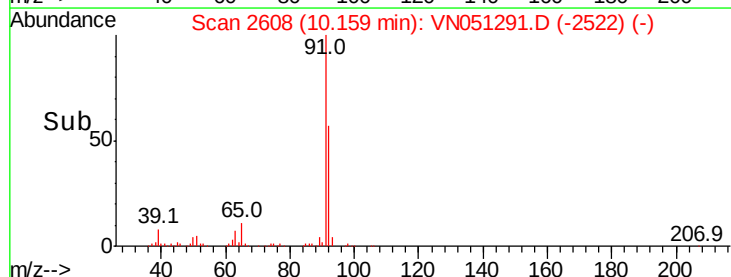
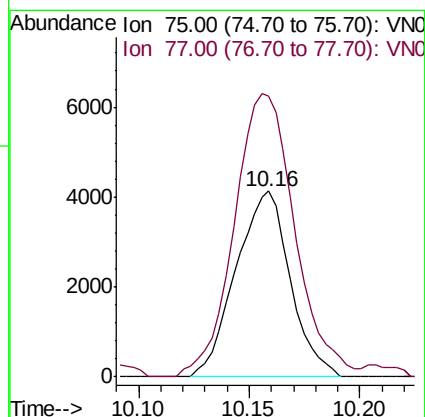
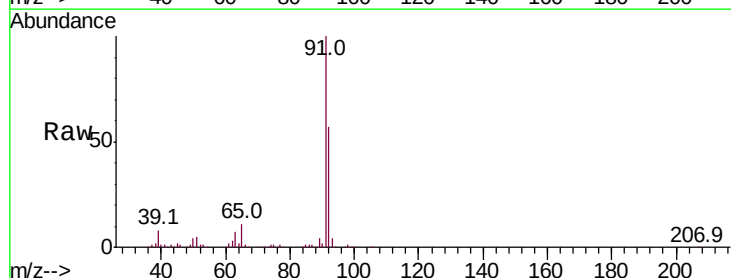
Acq: 18 Sep 2018 12:33

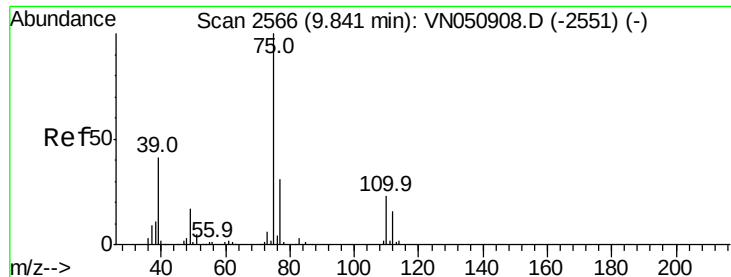
Tgt Ion: 75 Resp: 7081

Ion Ratio Lower Upper

75 100

77 145.3 24.8 37.2#





#49

cis-1,3-Dichloropropene

Concen: 0.802 ug/l

RT: 10.16 min Scan# 2608

Delta R.T. 0.32 min

Lab File: VN051291.D

Acq: 18 Sep 2018 12:33

Instrument :

MSVOA_N

ClientSampled :

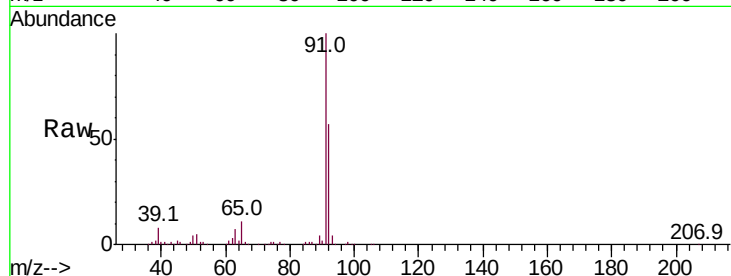
Tot Ion: 75 Resp: 7081

Ion Ratio Lower Upper

75 100

77 145.3 25.0 37.4#

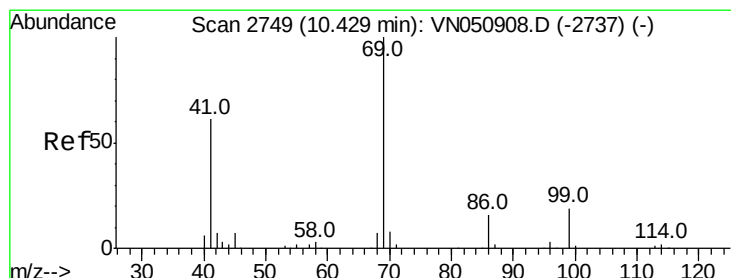
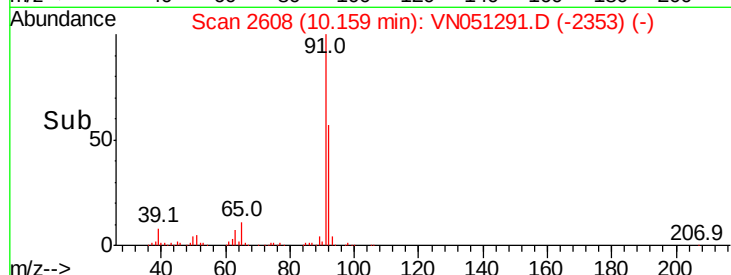
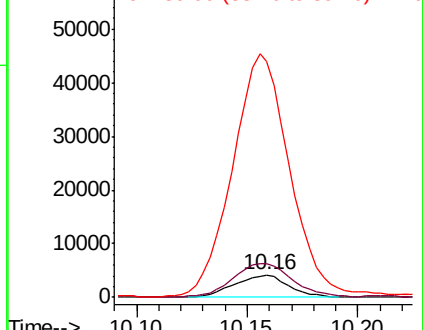
39 1041.0 32.9 49.3#



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#51

Ethyl methacrylate

Concen: 0.271 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.33 min

Lab File: VN051291.D

Acq: 18 Sep 2018 12:33

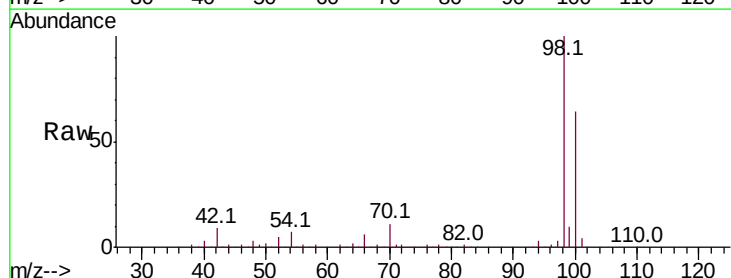
Tgt Ion: 69 Resp: 1790

Ion Ratio Lower Upper

69 100

41 42.8 30.5 91.5

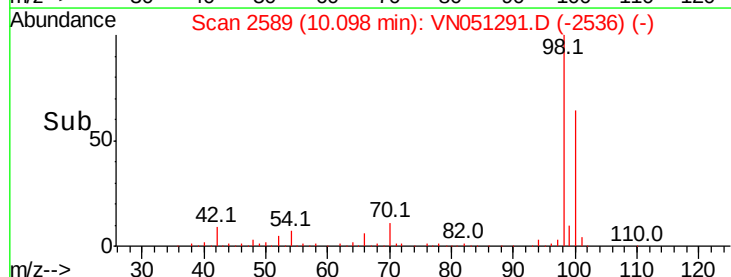
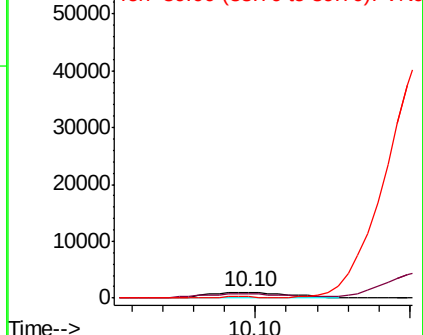
39 19.9 15.3 45.8

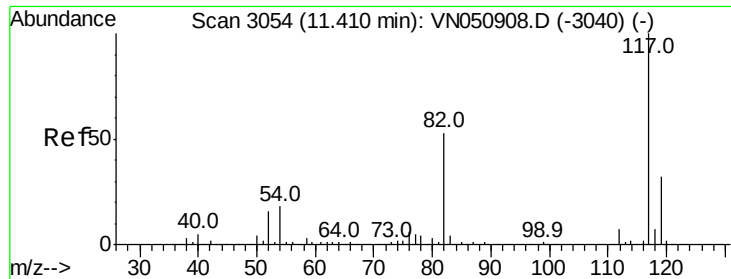


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

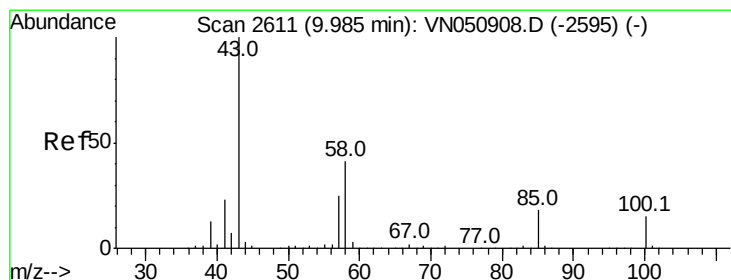
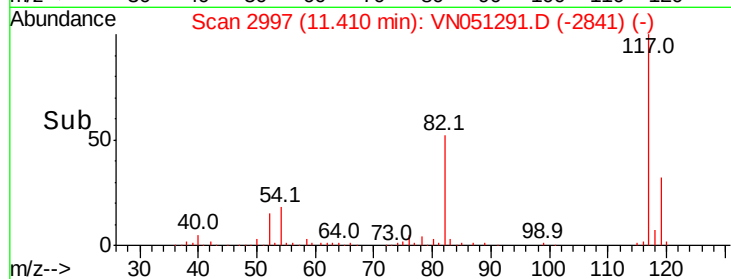
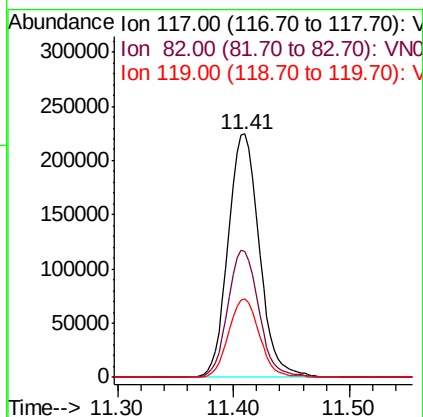
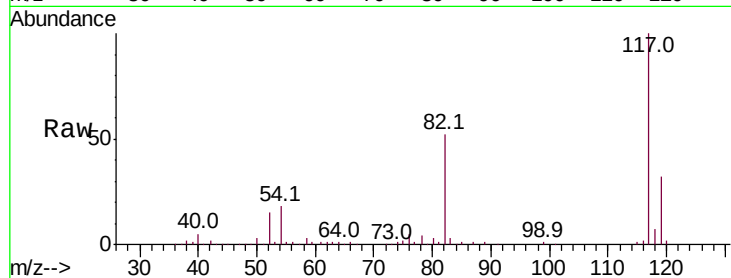




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051291.D
Acq: 18 Sep 2018 12:33

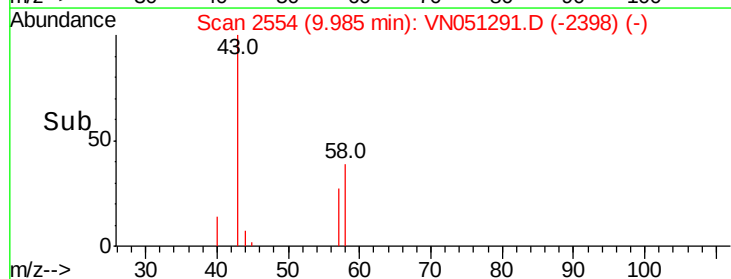
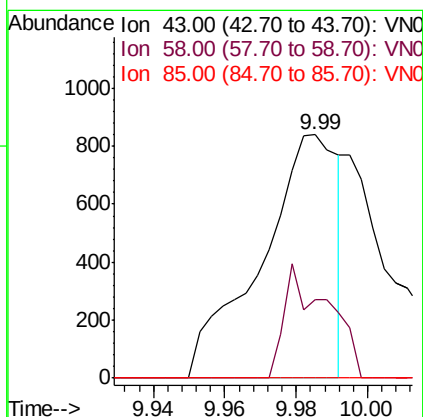
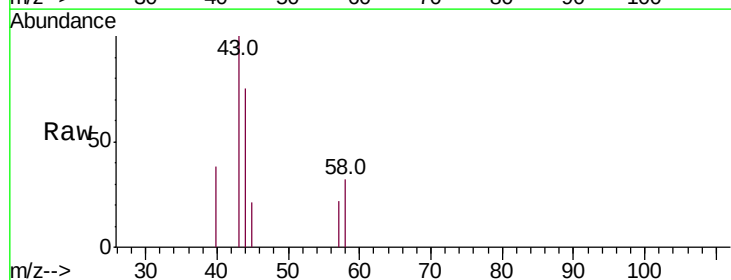
Instrument :
MSVOA_N
ClientSampled :

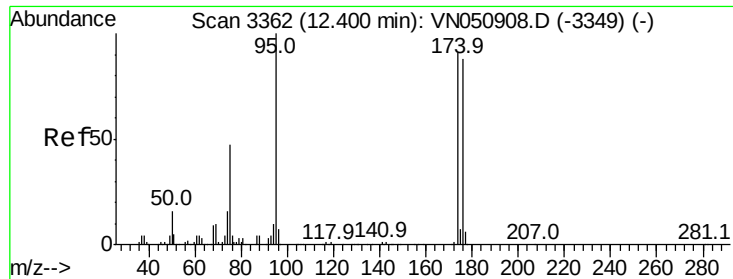
Tot Ion:117 Resp: 417443
Ion Ratio Lower Upper
117 100
82 52.0 42.6 64.0
119 32.0 25.7 38.5



#58
4-Methyl-2-Pentanone
Concen: 0.262 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN051291.D
Acq: 18 Sep 2018 12:33

Tgt Ion: 43 Resp: 1253
Ion Ratio Lower Upper
43 100
58 14.5 32.3 48.5#
85 0.0 14.9 22.3#





#60

4-Bromofluorobenzene

Concen: 20.440 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051291.D

Acq: 18 Sep 2018 12:33

Instrument :

MSVOA_N

ClientSampleId :

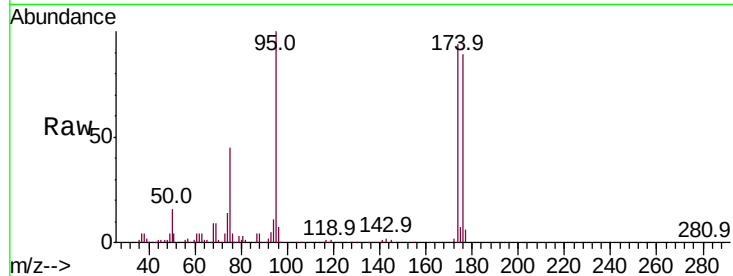
Tot Ion: 95 Resp: 126880

Ion Ratio Lower Upper

95 100

174 96.1 74.6 112.0

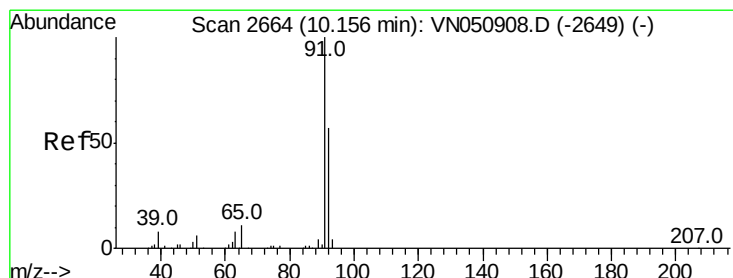
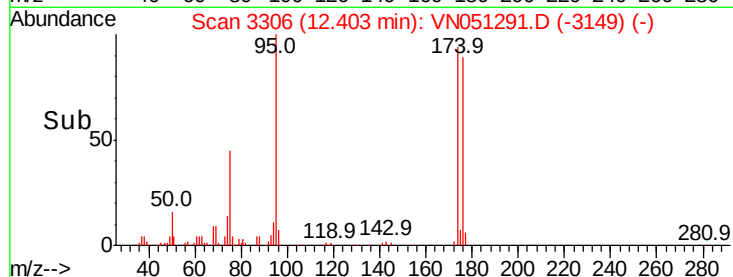
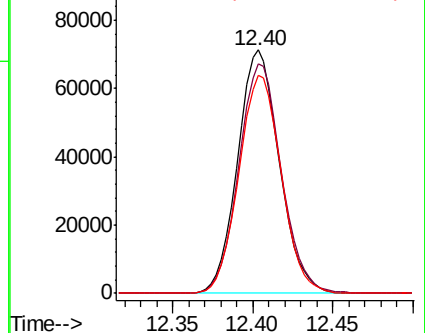
176 90.8 71.5 107.3



Abundance Ion 95.00 (94.70 to 95.70): VN050908.D (-3349) (-)

Ion 174.00 (173.70 to 174.70): VN050908.D (-3349) (-)

Ion 176.00 (175.70 to 176.70): VN050908.D (-3349) (-)



#62

Toluene

Concen: 47.426 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN051291.D

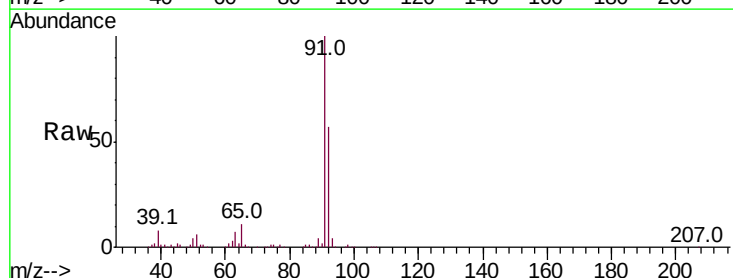
Acq: 18 Sep 2018 12:33

Tgt Ion: 91 Resp: 1104503

Ion Ratio Lower Upper

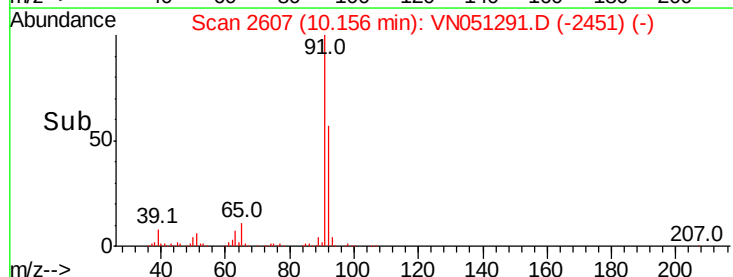
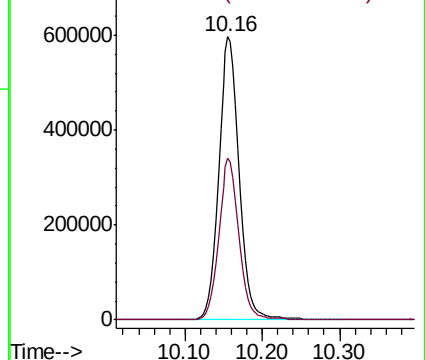
91 100

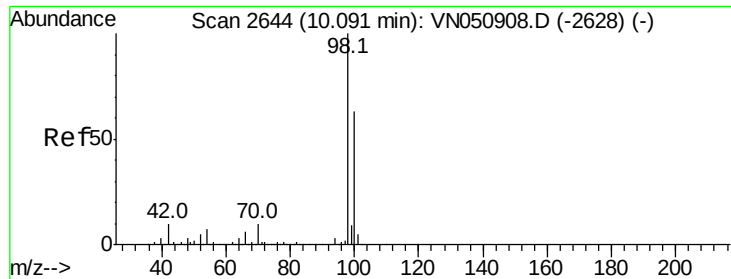
92 56.6 45.8 68.8



Abundance Ion 91.00 (90.70 to 91.70): VN050908.D (-2649) (-)

Ion 92.00 (91.70 to 92.70): VN050908.D (-2649) (-)





#63

Toluene-d8

Concen: 30.344 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051291.D

Acq: 18 Sep 2018 12:33

Instrument :

MSVOA_N

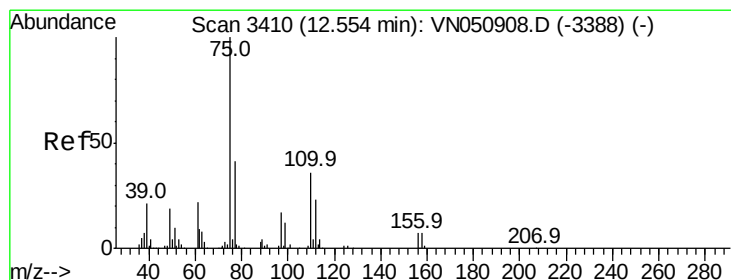
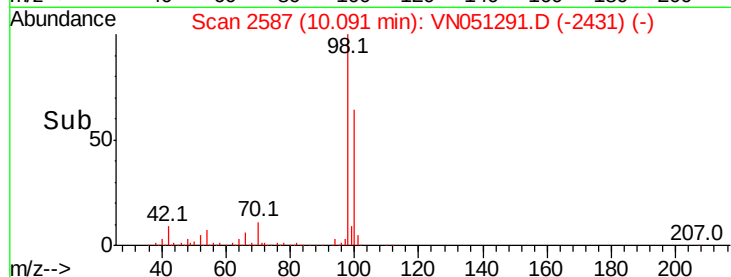
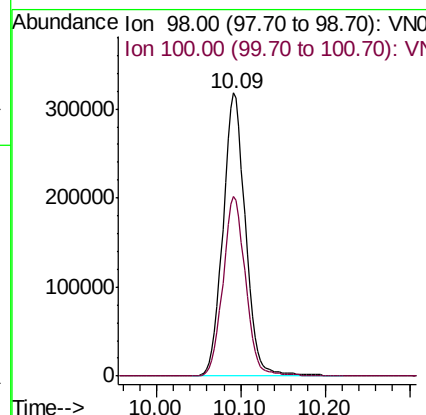
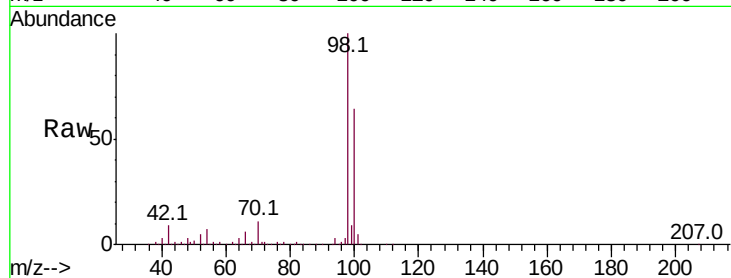
ClientSampleId :

Tot Ion: 98 Resp: 590694

Ion Ratio Lower Upper

98 100

100 63.4 50.6 75.8



#72

1,2,3-Trichloropropane

Concen: 10.469 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051291.D

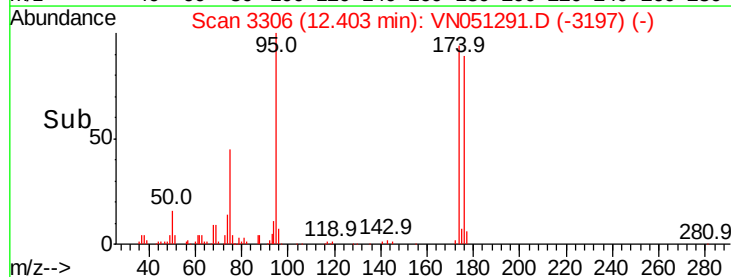
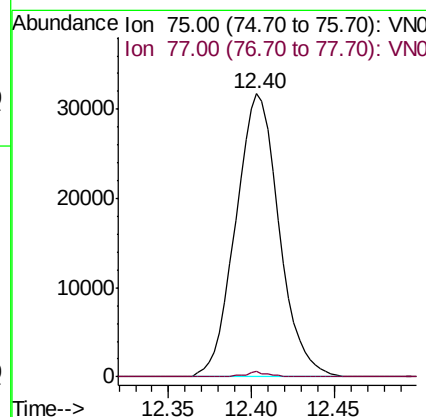
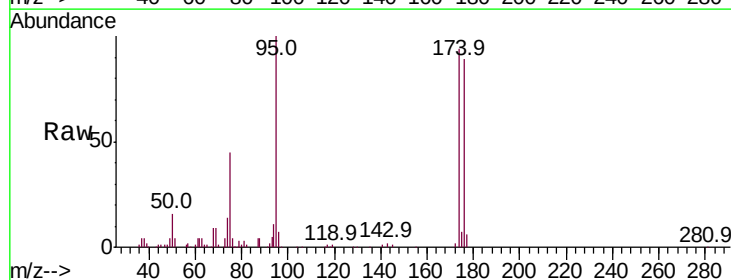
Acq: 18 Sep 2018 12:33

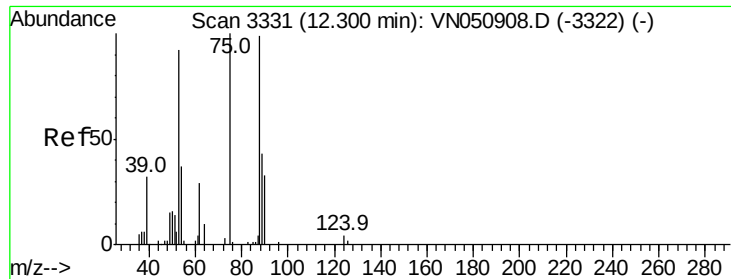
Tgt Ion: 75 Resp: 57629

Ion Ratio Lower Upper

75 100

77 0.8 0.0 301.6





#77

t-1,4-Dichloro-2-butene

Concen: 36.747 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051291.D

Acq: 18 Sep 2018 12:33

Instrument :

MSVOA_N

ClientSampleId :

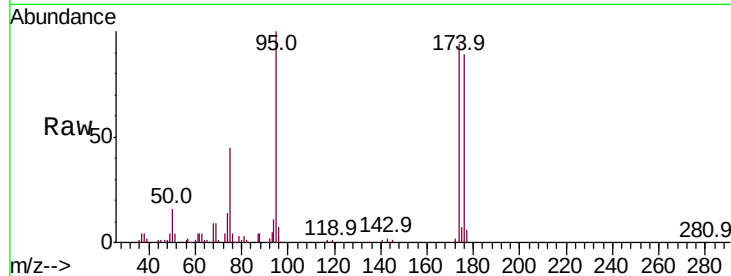
Tot Ion: 75 Resp: 57629

Ion Ratio Lower Upper

75 100

53 0.0 45.5 136.4#

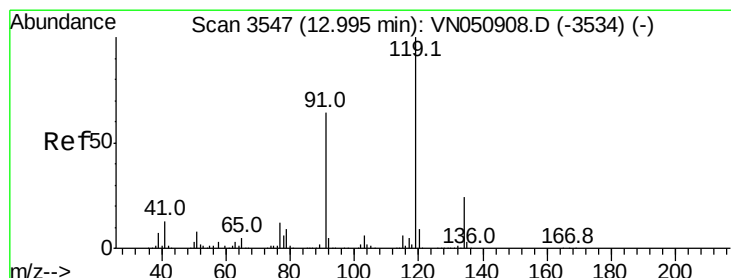
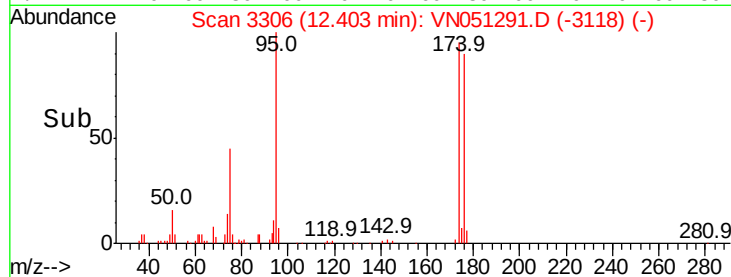
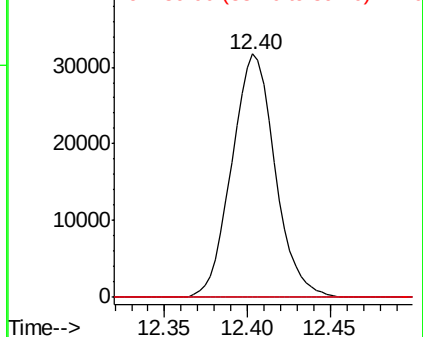
89 0.0 21.9 65.8#



Abundance Ion 75.00 (74.70 to 75.70): VN050908.D (-3322) (-)

Ion 53.00 (52.70 to 53.70): VN050908.D (-3322) (-)

Ion 89.00 (88.70 to 89.70): VN050908.D (-3322) (-)



#79

tert-butylbenzene

Concen: 0.734 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.30 min

Lab File: VN051291.D

Acq: 18 Sep 2018 12:33

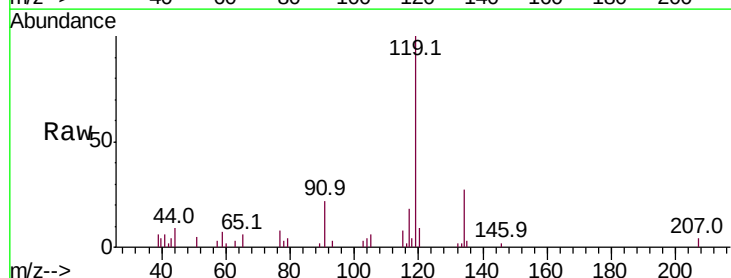
Tgt Ion: 119 Resp: 12276

Ion Ratio Lower Upper

119 100

91 23.9 0.0 125.6

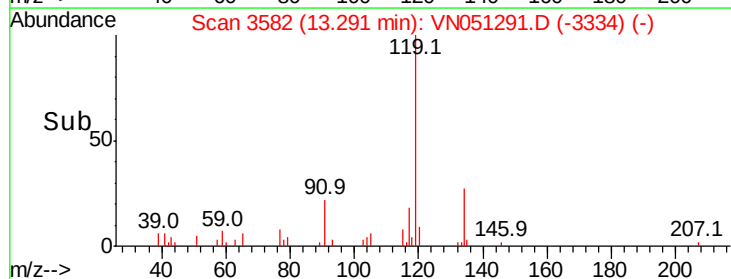
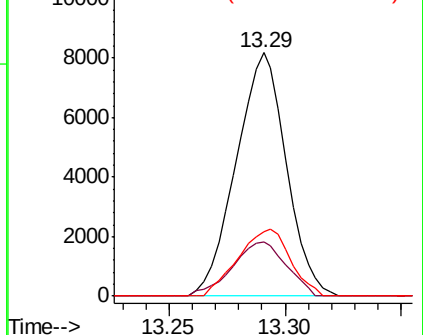
134 28.6 0.0 48.4

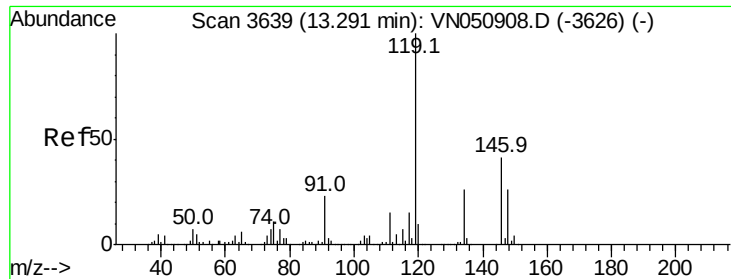


Abundance Ion 119.00 (118.70 to 119.70): VN050908.D (-3534) (-)

Ion 91.00 (90.70 to 91.70): VN050908.D (-3534) (-)

Ion 134.00 (133.70 to 134.70): VN050908.D (-3534) (-)

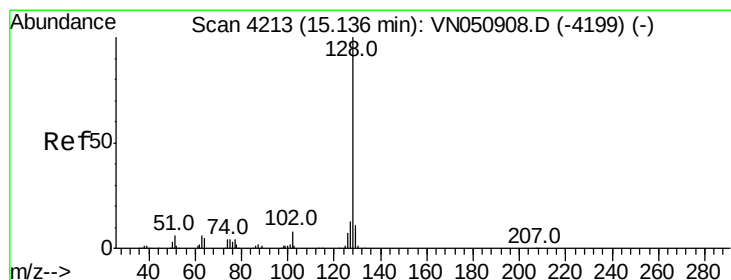
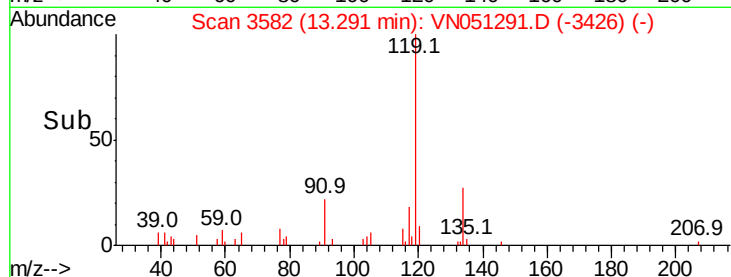
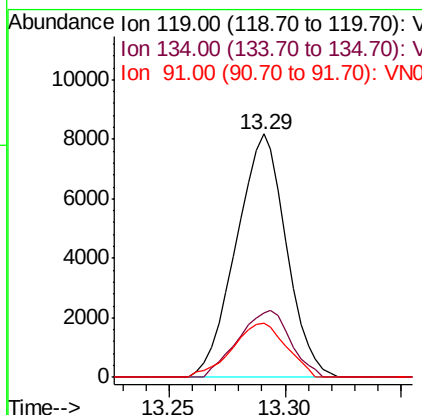
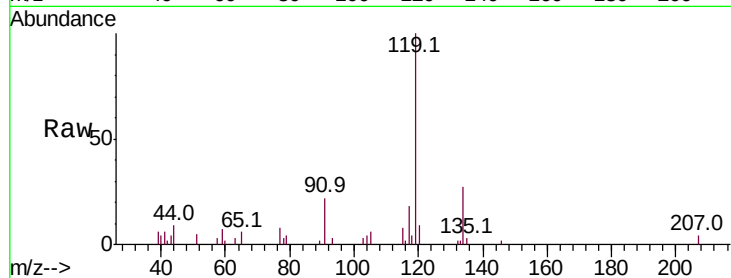




#82
 p-Isopropyltoluene
 Concen: 0.650 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN051291.D
 Acq: 18 Sep 2018 12:33

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:119 Resp: 12276
 Ion Ratio Lower Upper
 119 100
 134 28.6 0.0 53.2
 91 23.9 0.0 46.0



#91
 Naphthalene
 Concen: 8.673 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. -0.00 min
 Lab File: VN051291.D
 Acq: 18 Sep 2018 12:33

Tgt Ion:128 Resp: 1354
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.6 16.0#
 129 0.0 8.7 13.1#

