

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101518\
 Data File : VN051870.D
 Acq On : 15 Oct 2018 13:33
 Operator : MD\SY
 Sample : J5510-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 16 00:45:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 12 10:23:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	130932	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	750204	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	639670	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	241378	30.30	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.00%
60) 4-Bromofluorobenzene	12.40	95	240332	26.05	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	86.83%
63) Toluene-d8	10.09	98	841864	30.31	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.03%

Target Compounds

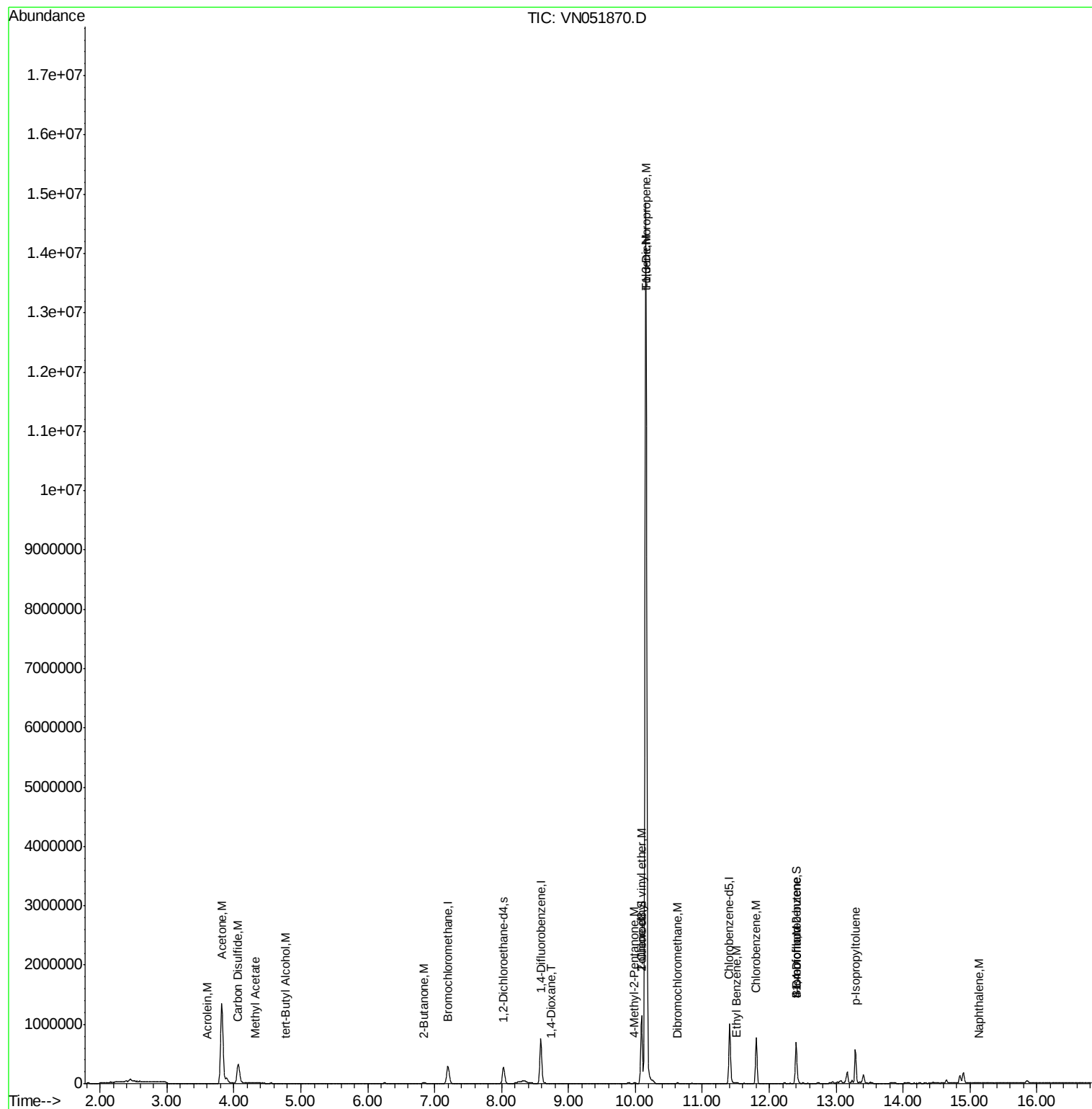
					Ovalue
12) Methyl Acetate	4.32	43	2157	0.576 ug/l #	62
13) Acrolein	3.60	56	73	0.296 ug/l #	1
15) Acetone	3.82	58	751492	1817.055 ug/l	95
16) Carbon Disulfide	4.05	76	3483	0.220 ug/l #	76
23) tert-Butyl Alcohol	4.79	59	158	0.359 ug/l #	100
30) 2-Butanone	6.84	43	23582	11.667 ug/l #	95
45) 1,4-Dioxane	8.75	88	109	1.549 ug/l #	28
48) t-1,3-Dichloropropene	10.16	75	74478	7.396 ug/l #	1
53) Dibromochloromethane	10.63	129	1954	0.229 ug/l #	9
55) 2-Chloroethyl vinyl ether	10.09	63	772	0.228 ug/l #	1
56) Bromoform	12.40	173	1568	0.278 ug/l #	1
58) 4-Methyl-2-Pentanone	9.99	43	11126	2.599 ug/l #	80
62) Toluene	10.16	91	12135706	381.891 ug/l	98
64) Chlorobenzene	11.81	112	4726	0.227 ug/l #	40
66) Ethyl Benzene	11.51	91	10244	0.292 ug/l	90
77) t-1,4-Dichloro-2-butene	12.40	75	118441	61.581 ug/l #	12
82) p-Isopropyltoluene	13.29	119	322252	9.671 ug/l	96
91) Naphthalene	15.13	128	2962	8.671 ug/l #	76

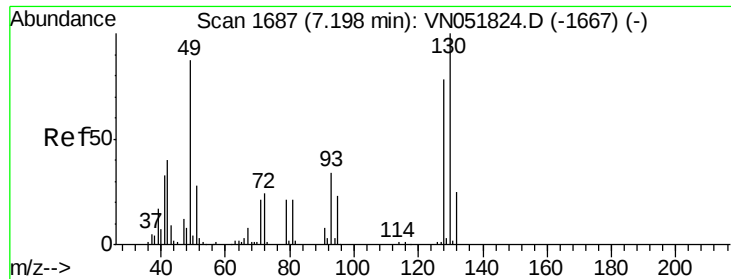
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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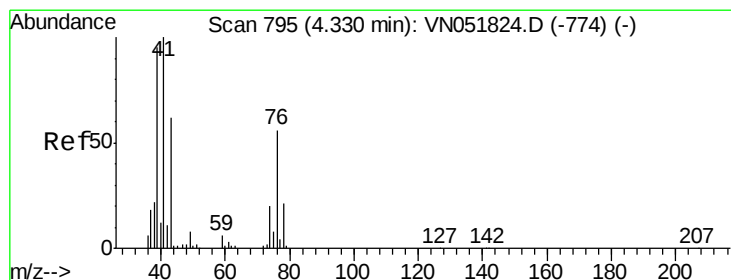
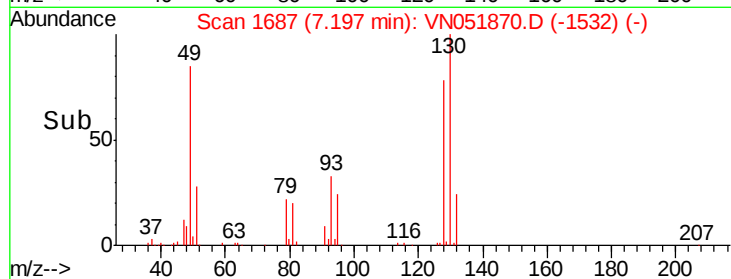
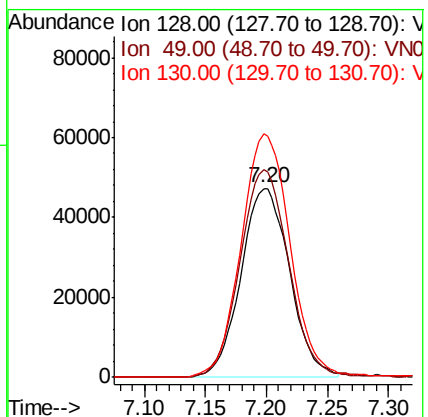
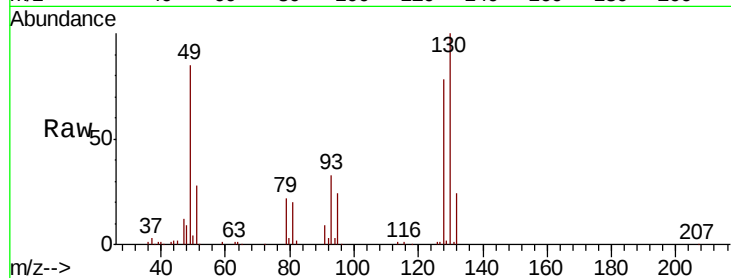




#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.20 min Scan# 1687
 Delta R.T. -0.00 min
 Lab File: VN051870.D
 Acq: 15 Oct 2018 13:33

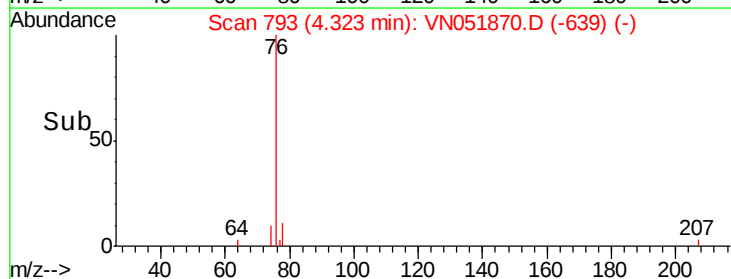
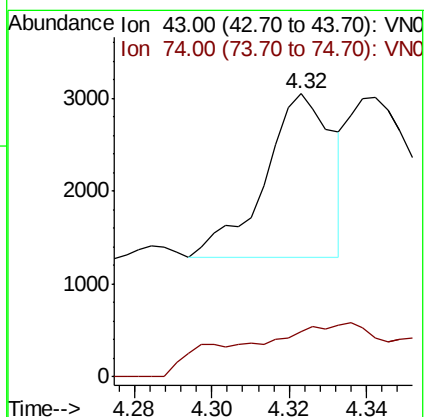
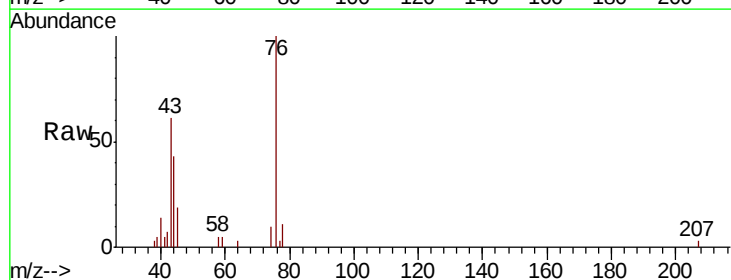
Instrument :
 MSVOA_N
 ClientSampleId :

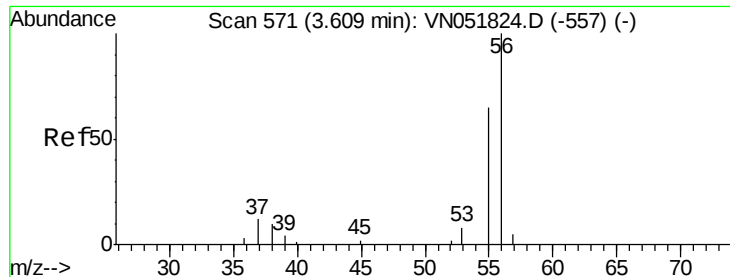
Tot Ion:128 Resp: 130932
 Ion Ratio Lower Upper
 128 100
 49 110.0 0.0 403.3
 130 130.0 0.0 326.0



#12
 Methyl Acetate
 Concen: 0.576 ug/l
 RT: 4.32 min Scan# 793
 Delta R.T. -0.00 min
 Lab File: VN051870.D
 Acq: 15 Oct 2018 13:33

Tgt Ion: 43 Resp: 2157
 Ion Ratio Lower Upper
 43 100
 74 7.6 21.8 32.6#





#13

Acrolein

Concen: 0.296 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.01 min

Lab File: VN051870.D

Acq: 15 Oct 2018 13:33

Instrument :

MSVOA_N

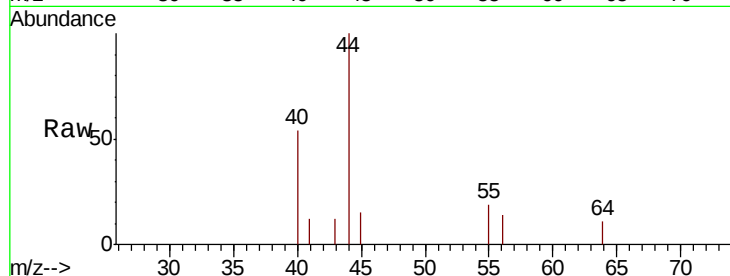
ClientSampled :

Tot Ion: 56 Resp: 73

Ion Ratio Lower Upper

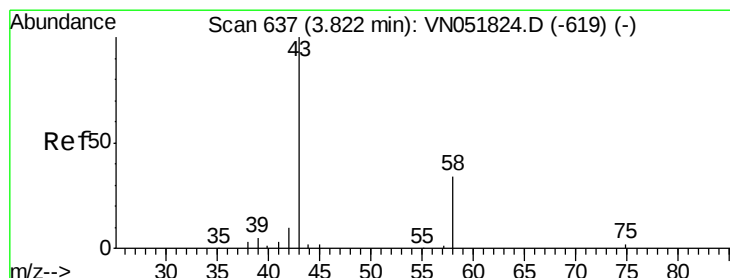
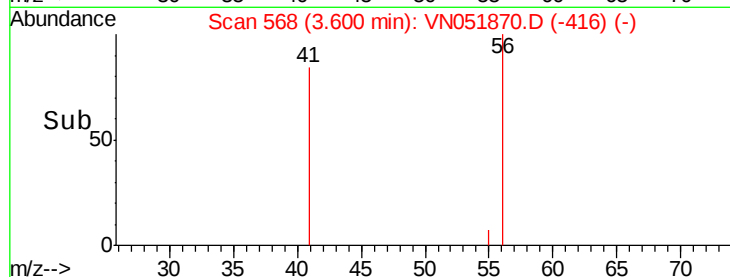
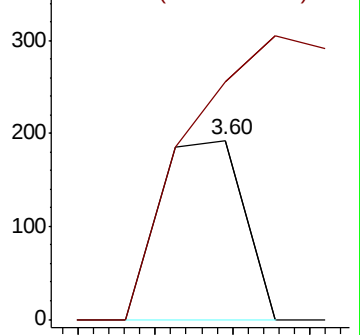
56 100

55 327.4 64.0 96.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#15

Acetone

Concen: 1817.055 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN051870.D

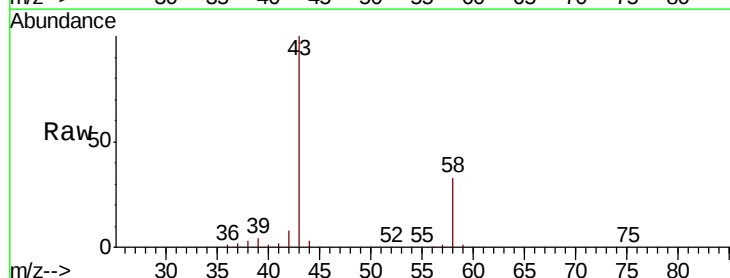
Acq: 15 Oct 2018 13:33

Tgt Ion: 58 Resp: 751492

Ion Ratio Lower Upper

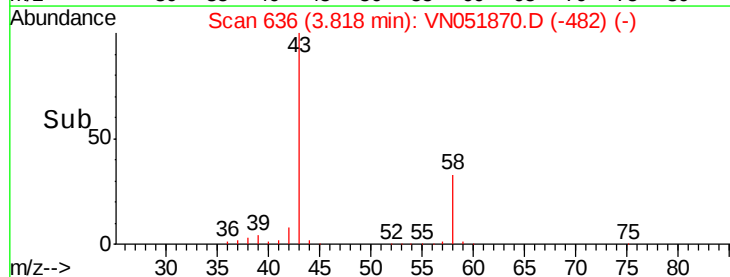
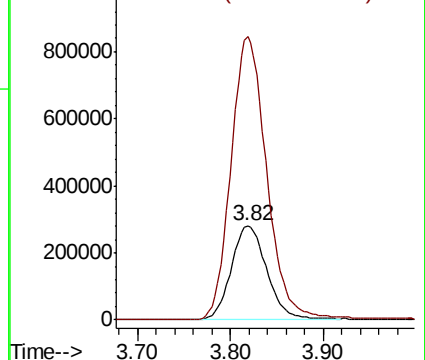
58 100

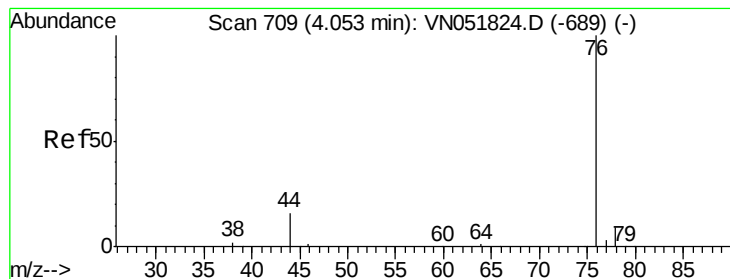
43 299.9 232.2 348.2



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0





#16

Carbon Disulfide

Concen: 0.220 ug/l

RT: 4.05 min Scan# 707

Delta R.T. -0.01 min

Lab File: VN051870.D

Acq: 15 Oct 2018 13:33

Instrument :

MSVOA_N

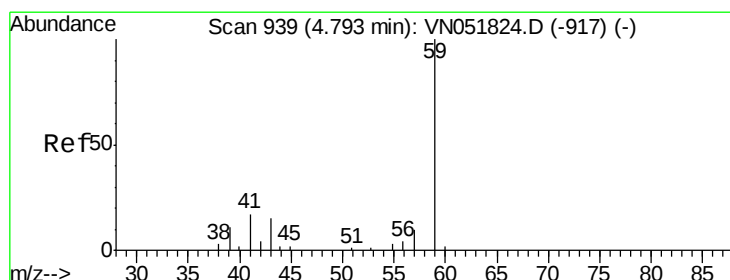
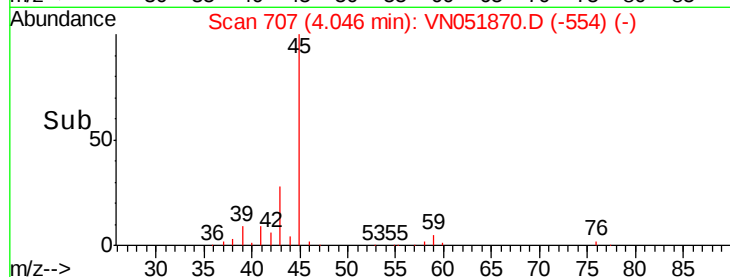
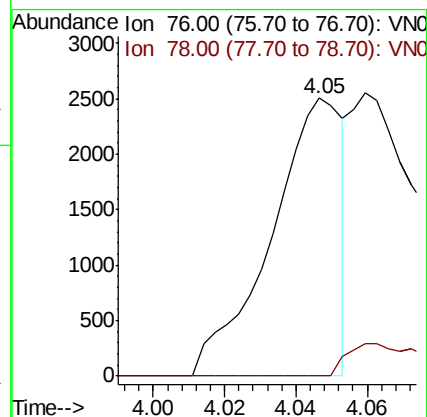
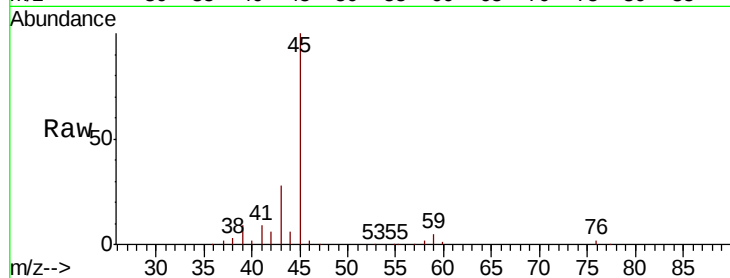
ClientSampleId :

Tot Ion: 76 Resp: 3483

Ion Ratio Lower Upper

76 100

78 0.0 6.7 10.1#



#23

tert-Butyl Alcohol

Concen: 0.359 ug/l

RT: 4.79 min Scan# 938

Delta R.T. -0.00 min

Lab File: VN051870.D

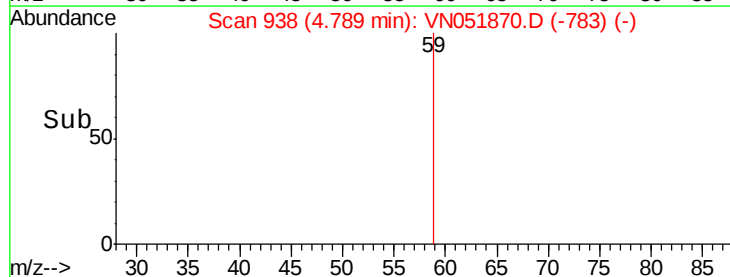
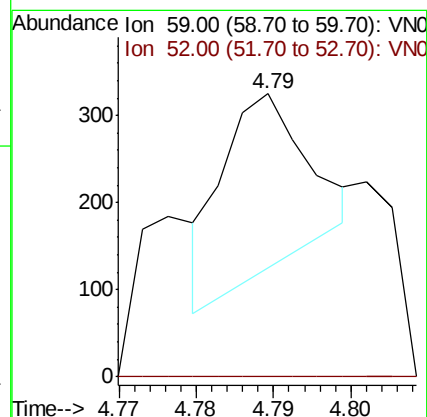
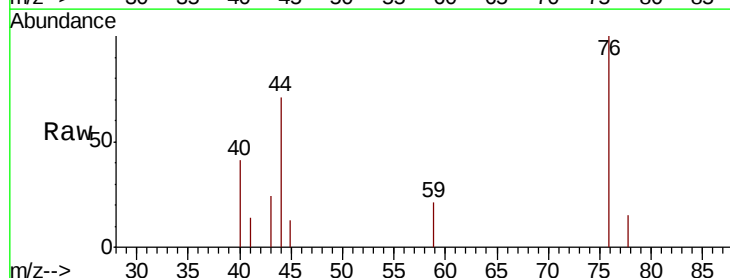
Acq: 15 Oct 2018 13:33

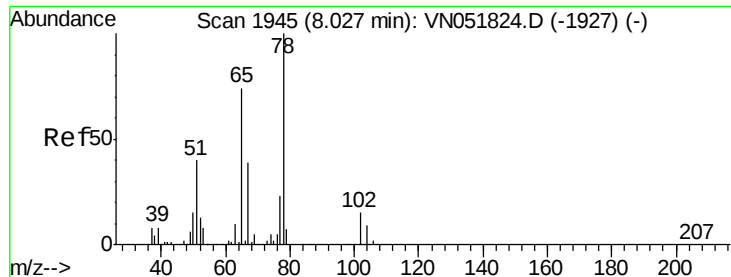
Tgt Ion: 59 Resp: 158

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0





#27

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN051870.D

Acq: 15 Oct 2018 13:33

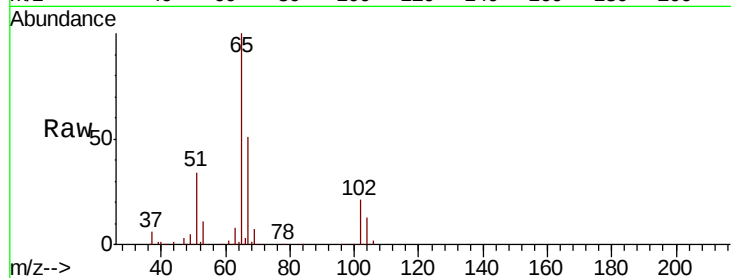
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 65 Resp: 241378

Ion Ratio Lower Upper

65 100

67 52.5 41.8 62.8



Abundance Ion 65.00 (64.70 to 65.70): VN051824.D (-1927) (-)

Ion 67.00 (66.70 to 67.70): VN051824.D (-1927) (-)

8.03

100000

80000

60000

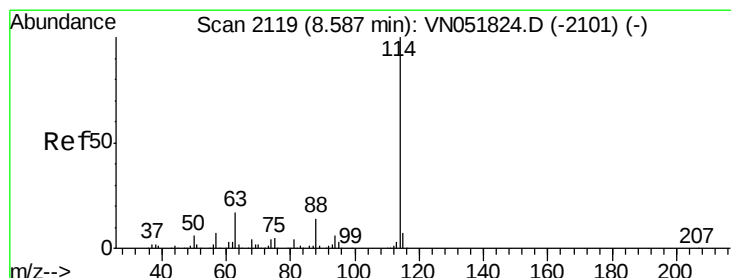
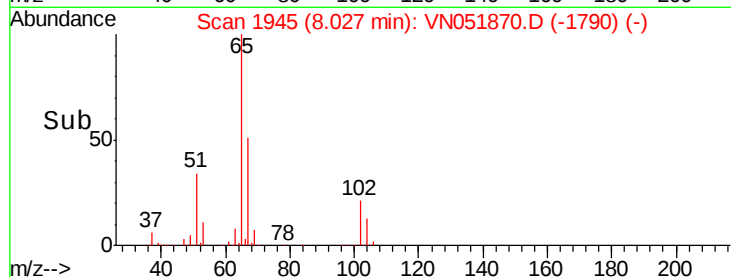
40000

20000

0

7.95 8.00 8.05 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: VN051870.D

Acq: 15 Oct 2018 13:33

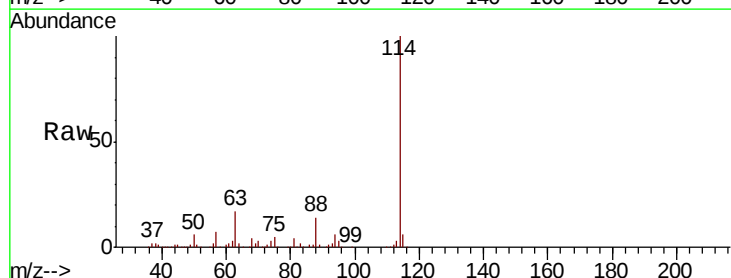
Tgt Ion: 114 Resp: 750204

Ion Ratio Lower Upper

114 100

63 16.6 16.2 24.2

88 14.1 12.2 18.4



Abundance Ion 114.00 (113.70 to 114.70): VN051824.D (-2101) (-)

Ion 63.00 (62.70 to 63.70): VN051824.D (-2101) (-)

Ion 88.00 (87.70 to 88.70): VN051824.D (-2101) (-)

8.59

400000

300000

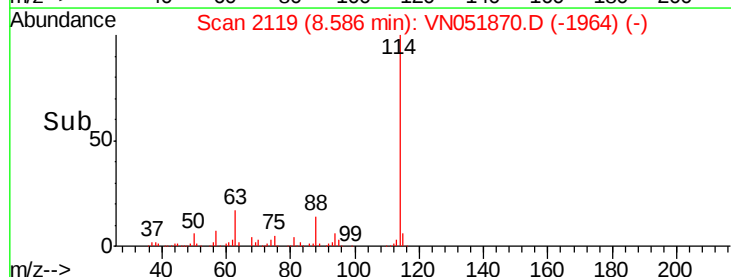
200000

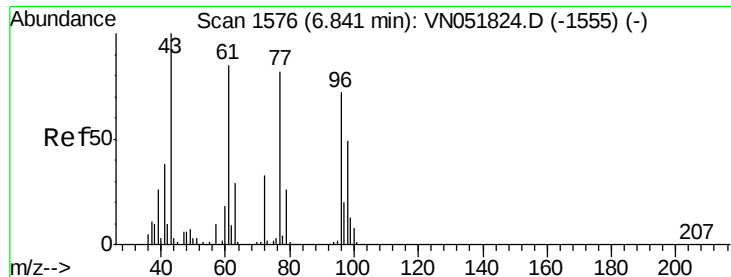
100000

0

8.50 8.55 8.60 8.65 8.70

Time-->

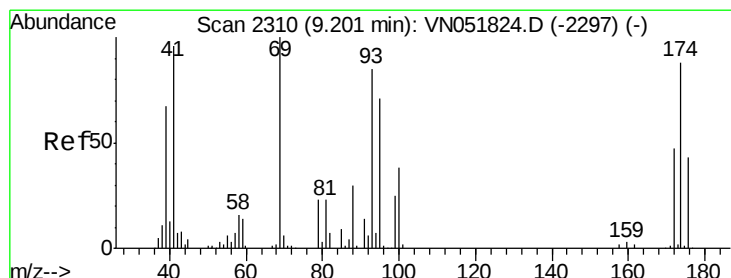
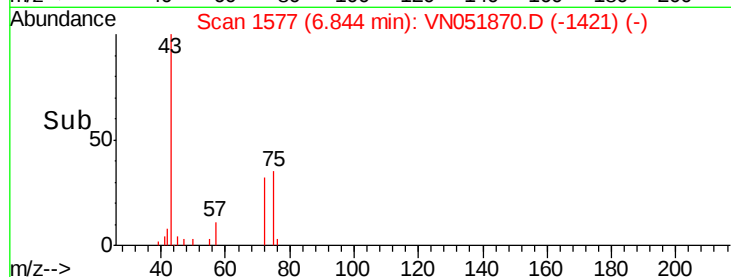
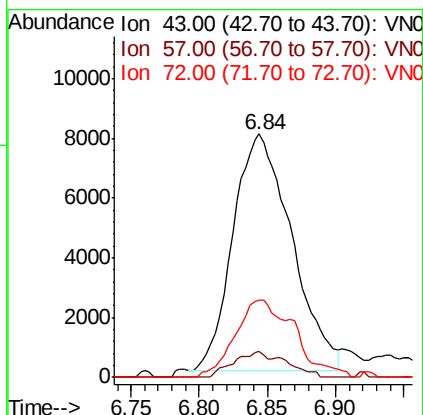
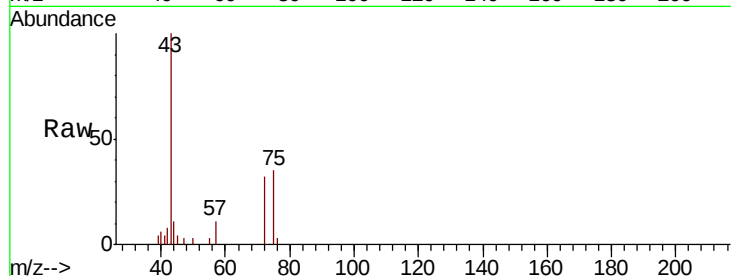




#30
2-Butanone
Concen: 11.667 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.00 min
Lab File: VN051870.D
Acq: 15 Oct 2018 13:33

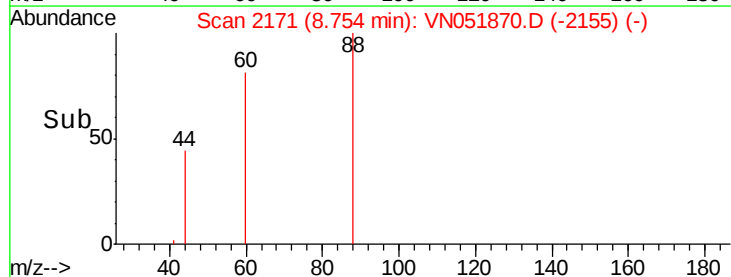
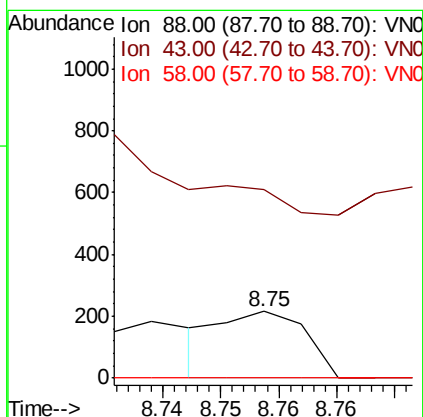
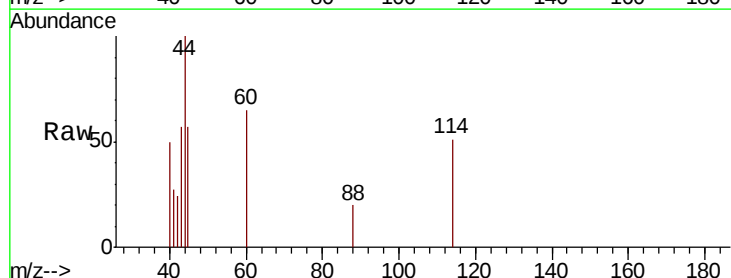
Instrument :
MSVOA_N
ClientSampled :

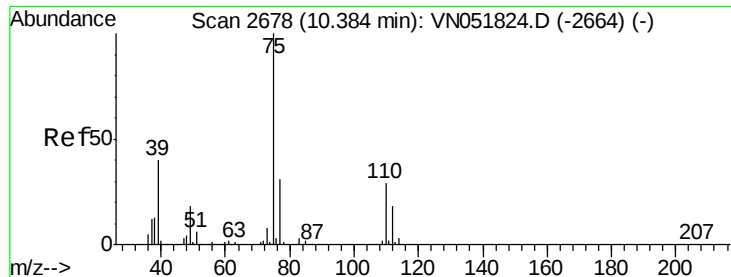
Tot Ion: 43 Resp: 23582
Ion Ratio Lower Upper
43 100
57 1.2 4.5 6.7#
72 25.0 21.5 32.3



#45
1,4-Dioxane
Concen: 1.549 ug/l
RT: 8.75 min Scan# 2171
Delta R.T. -0.45 min
Lab File: VN051870.D
Acq: 15 Oct 2018 13:33

Tgt Ion: 88 Resp: 109
Ion Ratio Lower Upper
88 100
43 45.9 26.2 39.2#
58 0.0 65.6 98.4#





#48

t-1,3-Dichloropropene

Concen: 7.396 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.23 min

Lab File: VN051870.D

Acq: 15 Oct 2018 13:33

Instrument :

MSVOA_N

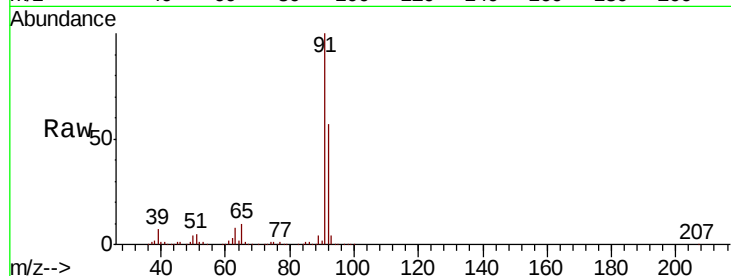
ClientSampled :

Tot Ion: 75 Resp: 74478

Ion Ratio Lower Upper

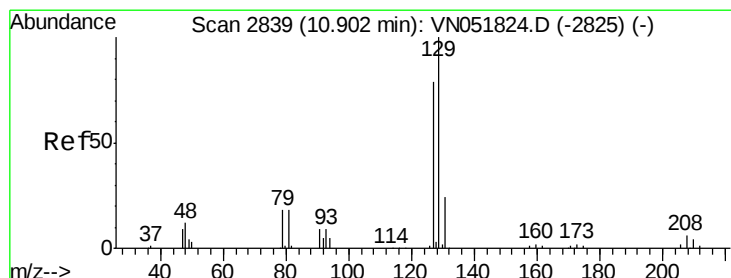
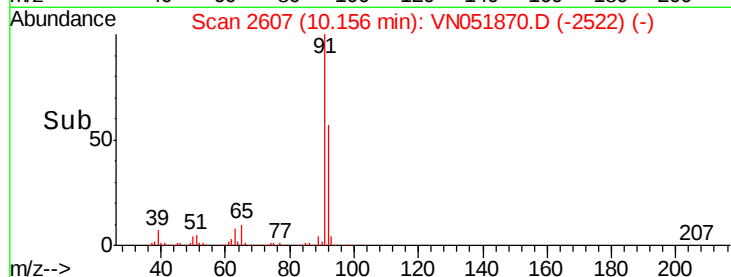
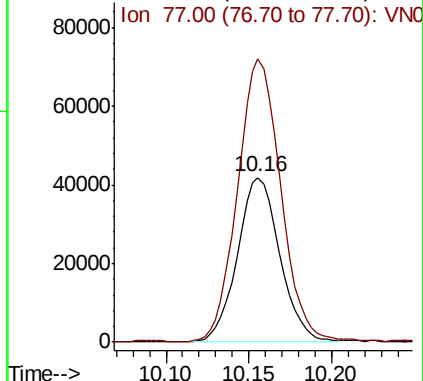
75 100

77 171.5 24.6 37.0#



Abundance Ion 75.00 (74.70 to 75.70): VN051824.D (-2664) (-)

Ion 77.00 (76.70 to 77.70): VN051824.D (-2664) (-)



#53

Dibromochloromethane

Concen: 0.229 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.27 min

Lab File: VN051870.D

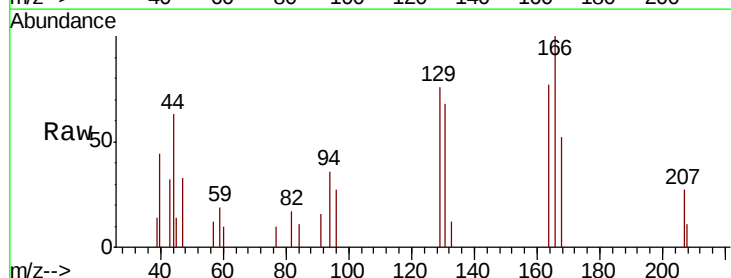
Acq: 15 Oct 2018 13:33

Tgt Ion: 129 Resp: 1954

Ion Ratio Lower Upper

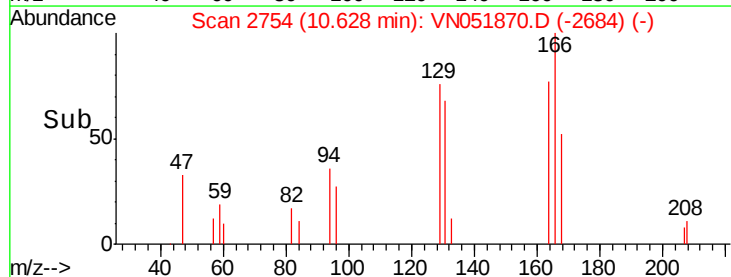
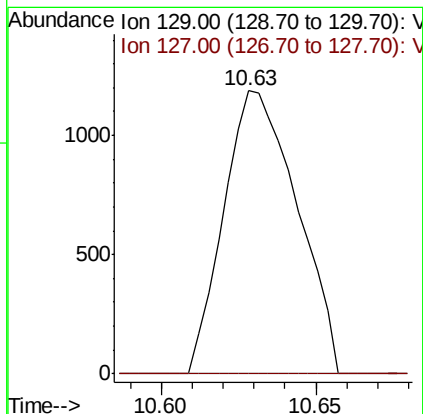
129 100

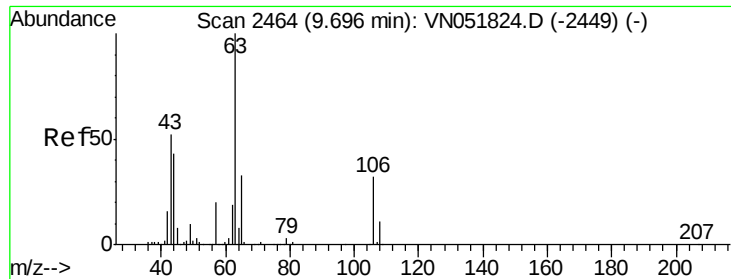
127 0.0 40.2 120.5#



Abundance Ion 129.00 (128.70 to 129.70): VN051824.D (-2825) (-)

Ion 127.00 (126.70 to 127.70): VN051824.D (-2825) (-)

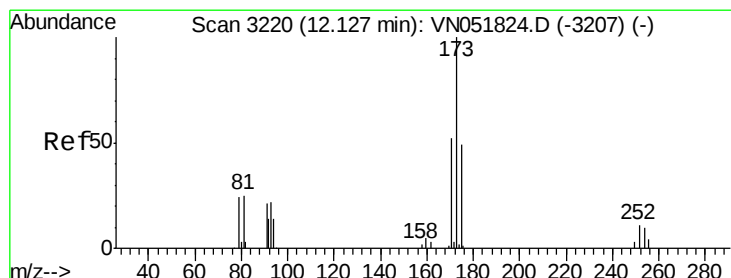
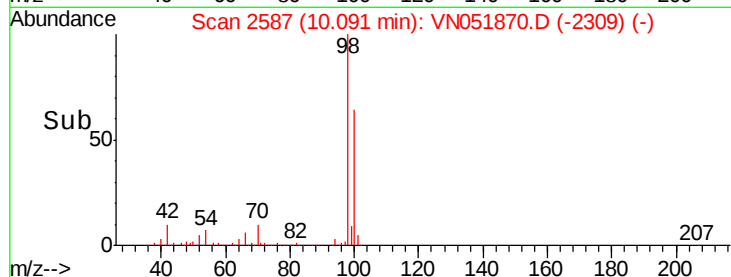
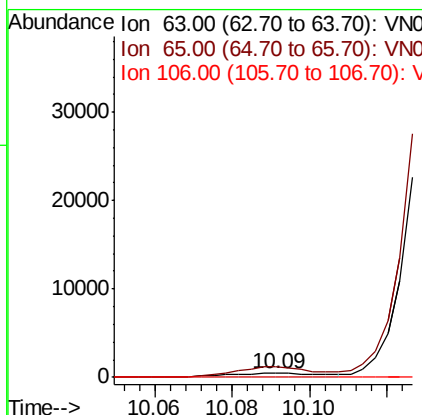
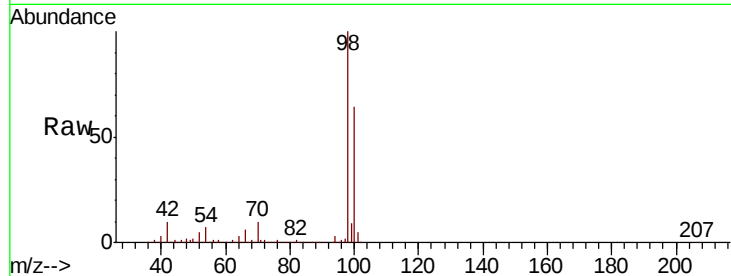




#55
 2-Chloroethyl vinyl ether
 Concen: 0.228 ug/l
 RT: 10.09 min Scan# 2587
 Delta R.T. 0.40 min
 Lab File: VN051870.D
 Acq: 15 Oct 2018 13:33

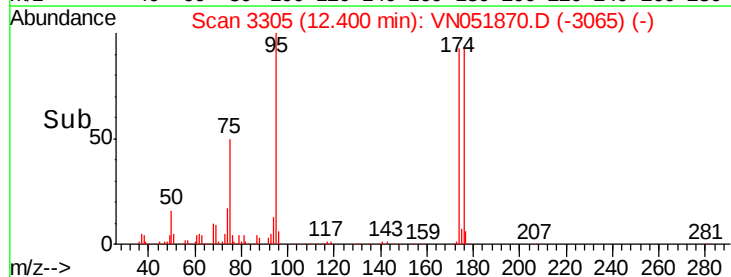
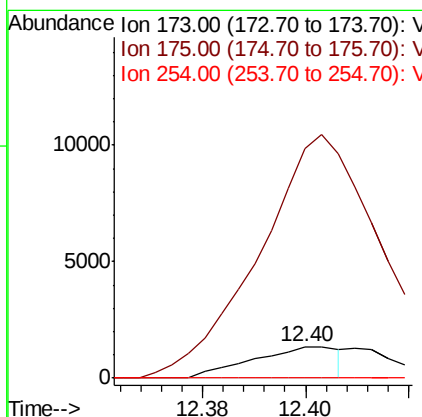
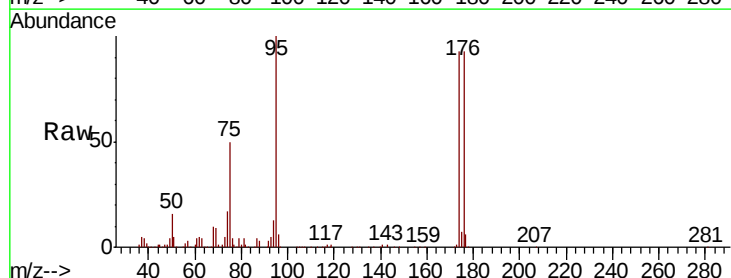
Instrument :
 MSVOA_N
 ClientSampleId :

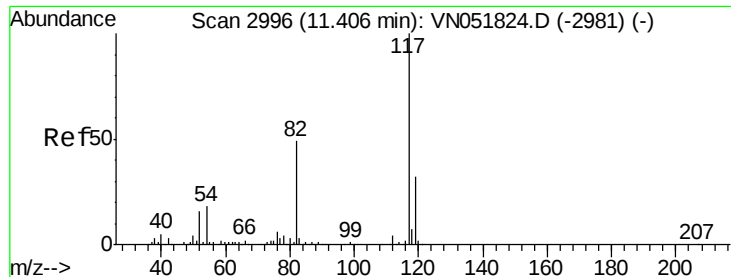
Tot Ion: 63 Resp: 772
 Ion Ratio Lower Upper
 63 100
 65 205.2 25.4 38.0#
 106 0.0 21.2 31.8#



#56
 Bromoform
 Concen: 0.278 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.27 min
 Lab File: VN051870.D
 Acq: 15 Oct 2018 13:33

Tgt Ion: 173 Resp: 1568
 Ion Ratio Lower Upper
 173 100
 175 1099.8 35.8 53.8#
 254 0.0 8.6 13.0#

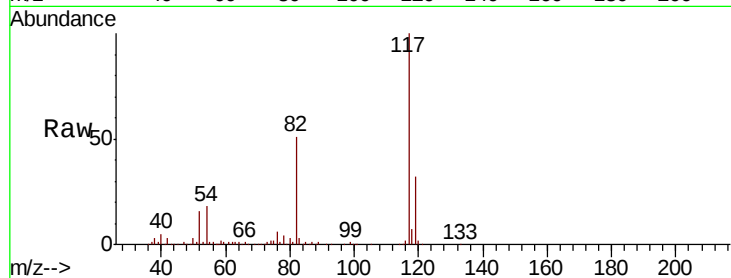




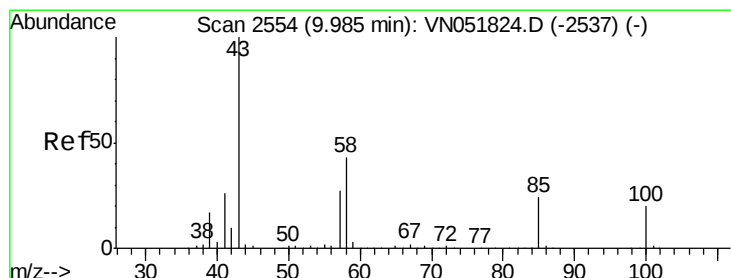
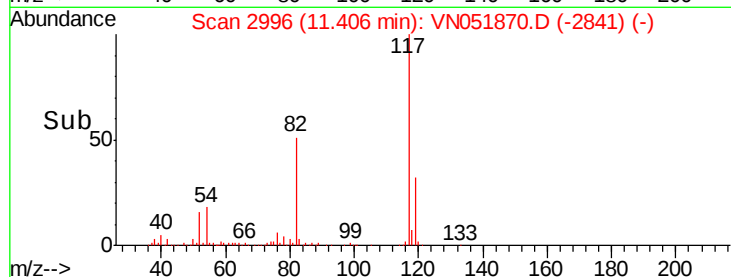
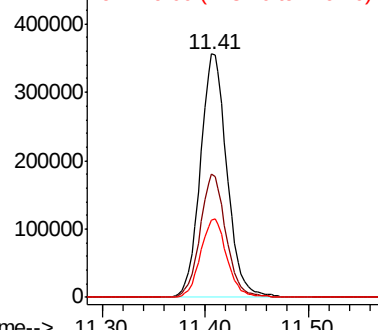
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051870.D
Acq: 15 Oct 2018 13:33

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 639670
Ion Ratio Lower Upper
117 100
82 49.2 44.1 66.1
119 32.2 25.8 38.8

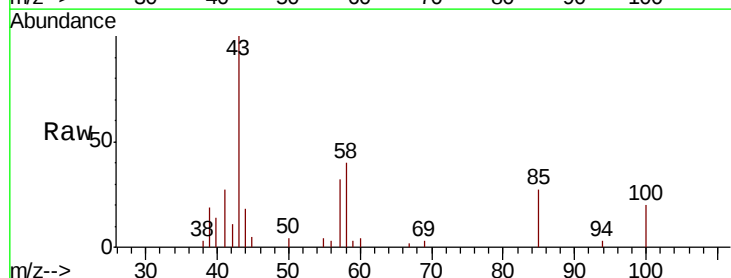


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VN
Ion 119.00 (118.70 to 119.70): V

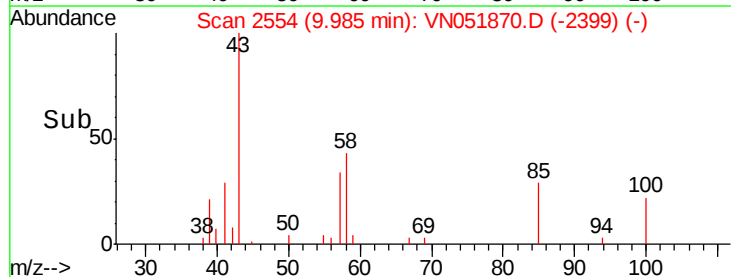
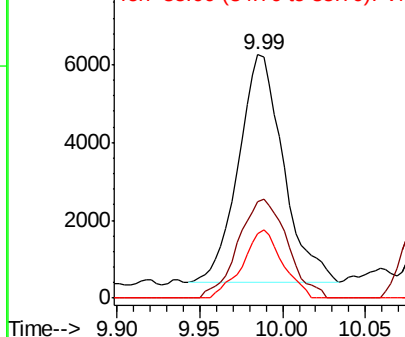


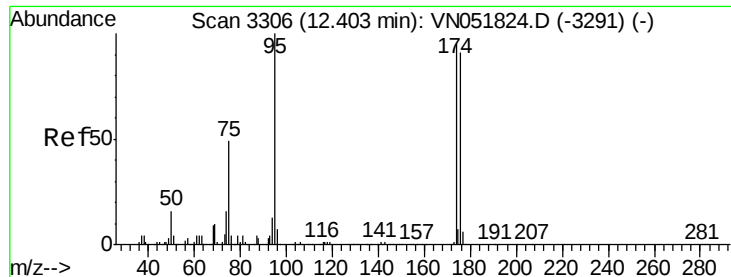
#58
4-Methyl-2-Pentanone
Concen: 2.599 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN051870.D
Acq: 15 Oct 2018 13:33

Tgt Ion: 43 Resp: 11126
Ion Ratio Lower Upper
43 100
58 47.1 29.3 43.9#
85 26.3 12.6 18.8#



Abundance Ion 43.00 (42.70 to 43.70): VN
Ion 58.00 (57.70 to 58.70): VN
Ion 85.00 (84.70 to 85.70): VN





#60

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051870.D

Acq: 15 Oct 2018 13:33

Instrument :

MSVOA_N

ClientSampleId :

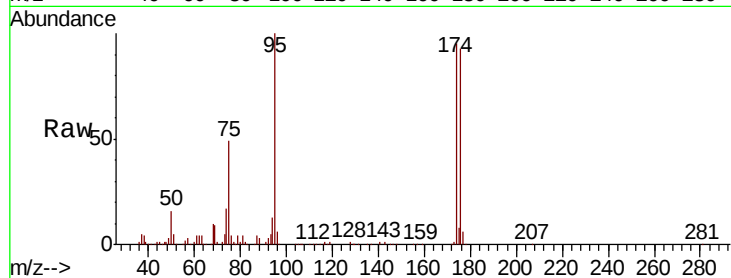
Tot Ion: 95 Resp: 240332

Ion Ratio Lower Upper

95 100

174 93.9 73.5 110.3

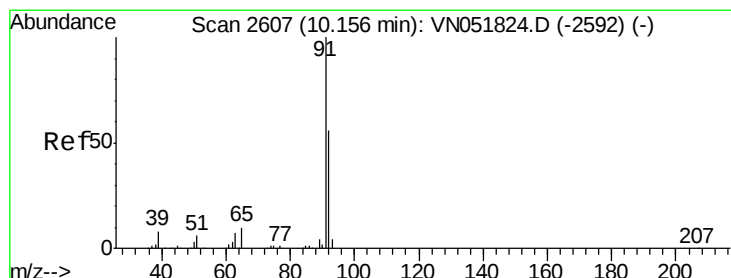
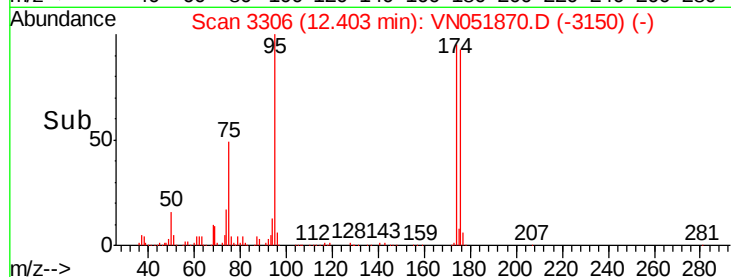
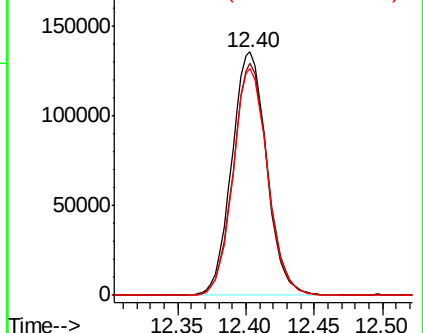
176 91.5 70.2 105.2



Abundance Ion 95.00 (94.70 to 95.70): VN051824.D (-3291) (-)

Ion 174.00 (173.70 to 174.70): VN051824.D (-3291) (-)

Ion 176.00 (175.70 to 176.70): VN051824.D (-3291) (-)



#62

Toluene

Concen: 381.891 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN051870.D

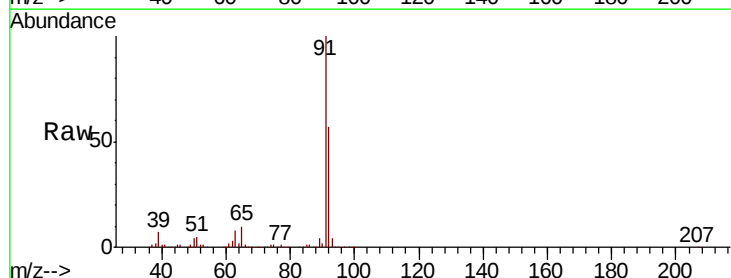
Acq: 15 Oct 2018 13:33

Tgt Ion: 91 Resp: 12135706

Ion Ratio Lower Upper

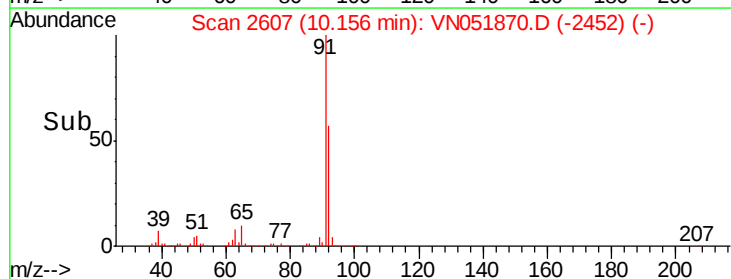
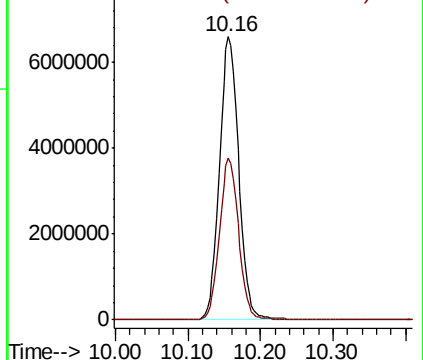
91 100

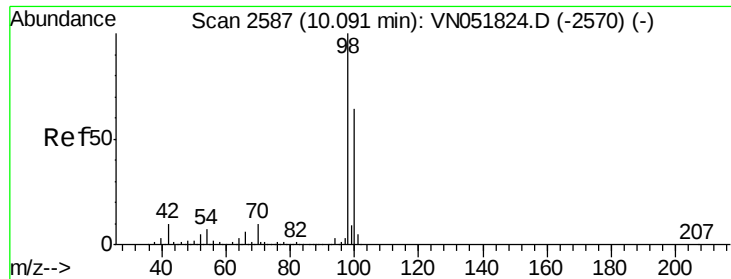
92 56.9 44.6 66.8



Abundance Ion 91.00 (90.70 to 91.70): VN051824.D (-2592) (-)

Ion 92.00 (91.70 to 92.70): VN051824.D (-2592) (-)





#63

Toluene-d8

Concen: 381.891 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051870.D

Acq: 15 Oct 2018 13:33

Instrument :

MSVOA_N

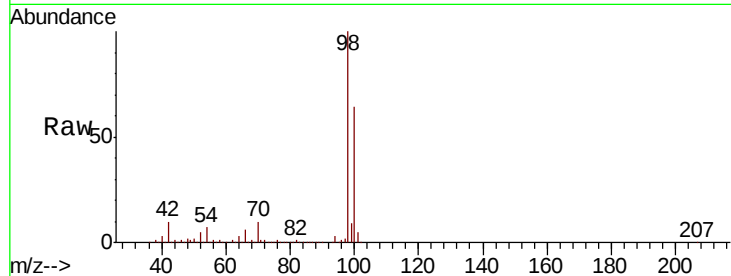
ClientSampleId :

Tot Ion: 98 Resp: 841864

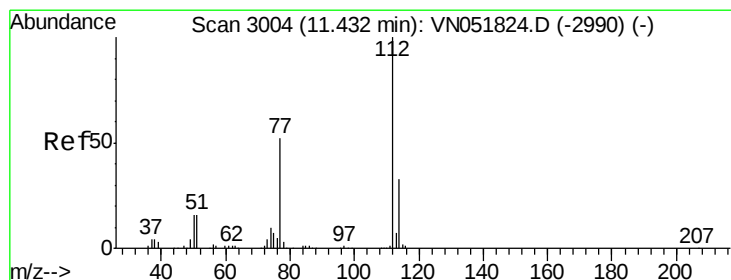
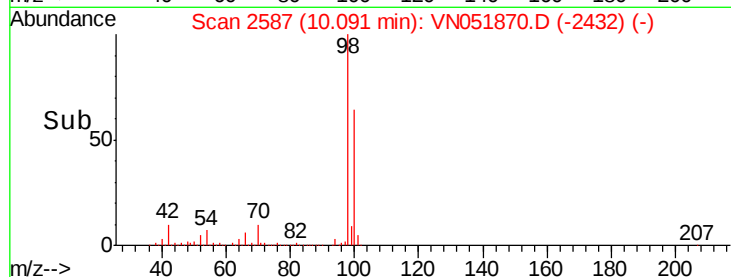
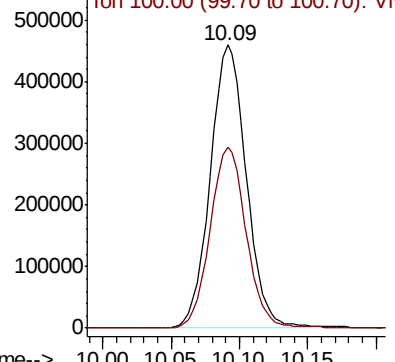
Ion Ratio Lower Upper

98 100

100 64.3 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VN051824.D (-2570) (-)



#64

Chlorobenzene

Concen: 0.227 ug/l

RT: 11.81 min Scan# 3120

Delta R.T. 0.37 min

Lab File: VN051870.D

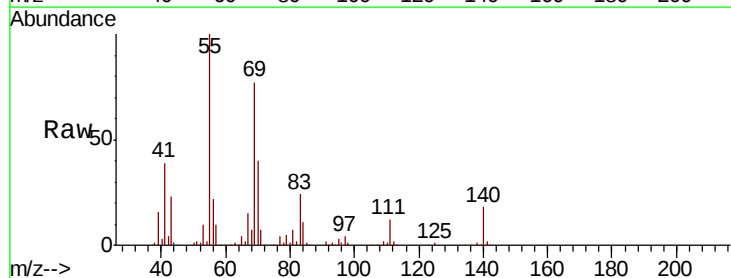
Acq: 15 Oct 2018 13:33

Tgt Ion: 112 Resp: 4726

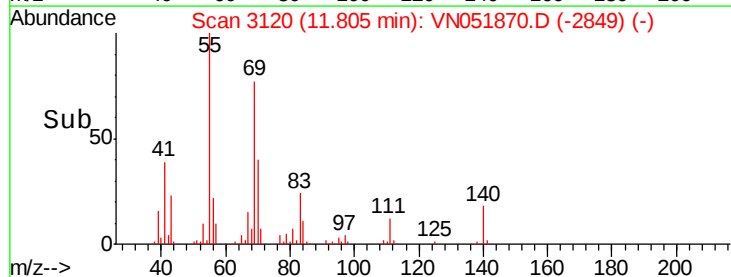
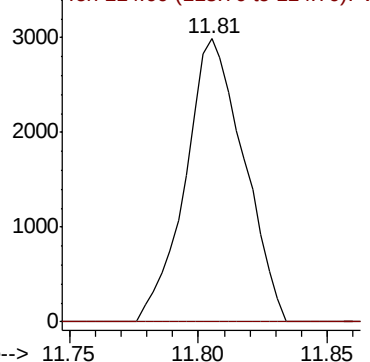
Ion Ratio Lower Upper

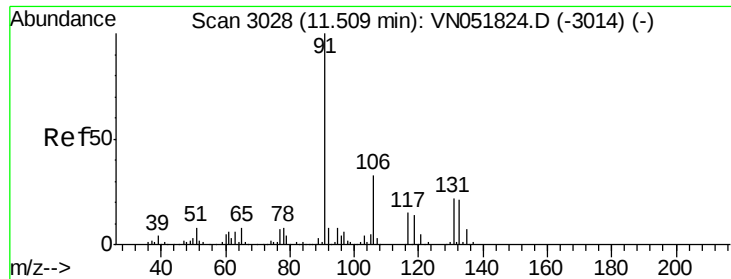
112 100

114 0.0 27.5 41.3#



Abundance Ion 112.00 (111.70 to 112.70): VN051824.D (-2990) (-)

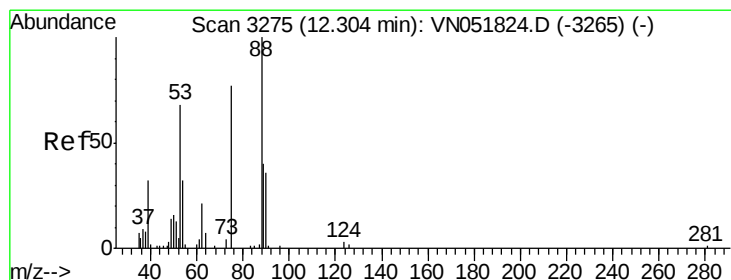
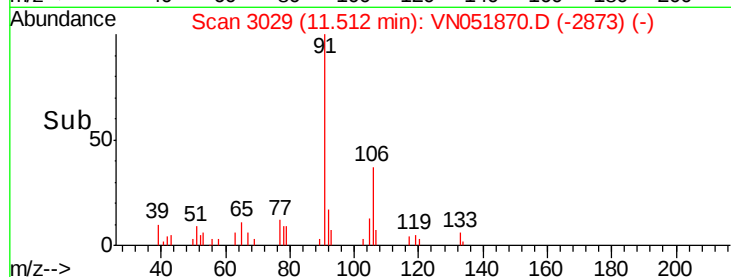
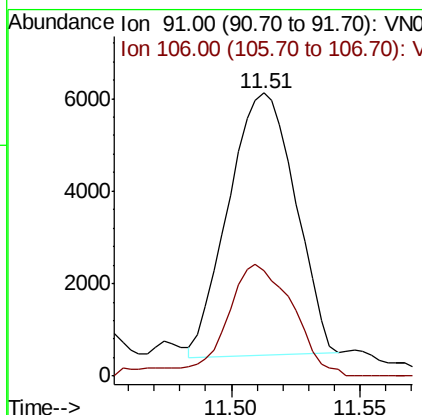
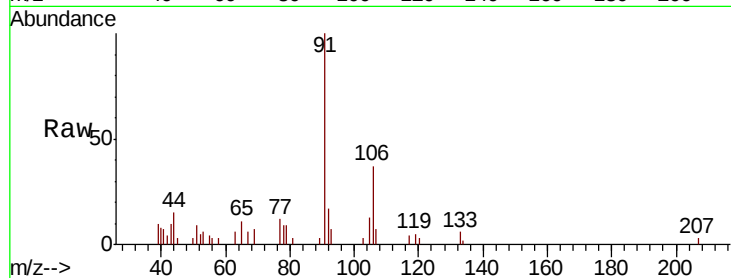




#66
Ethyl Benzene
Concen: 0.292 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN051870.D
Acq: 15 Oct 2018 13:33

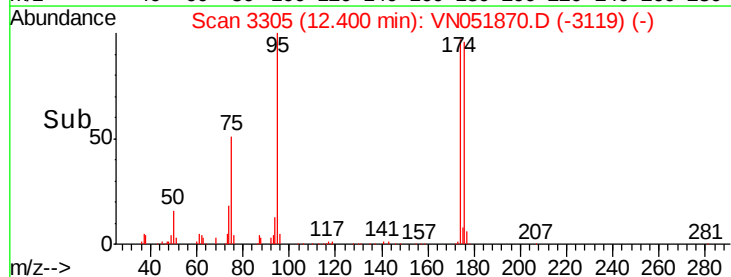
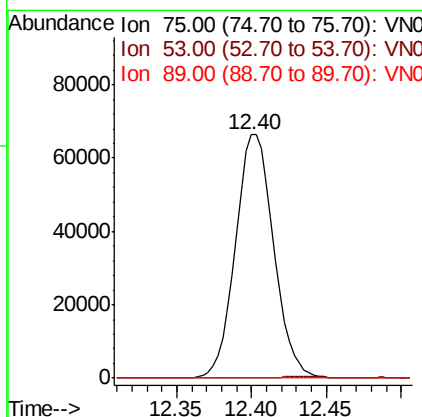
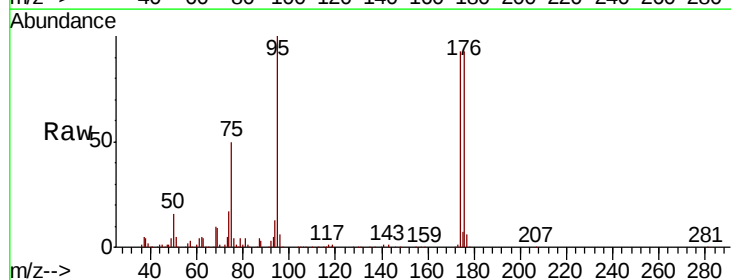
Instrument :
MSVOA_N
ClientSampleId :

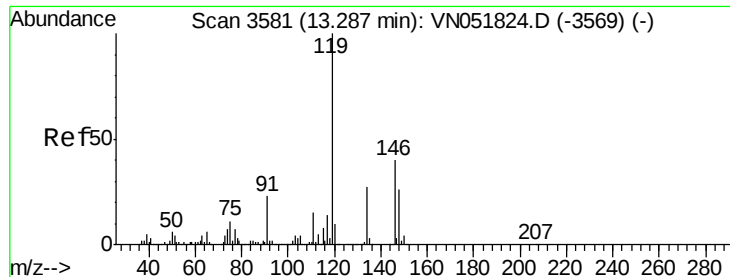
Tot Ion: 91 Resp: 10244
Ion Ratio Lower Upper
91 100
106 37.9 25.9 38.9



#77
t-1,4-Dichloro-2-butene
Concen: 61.581 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN051870.D
Acq: 15 Oct 2018 13:33

Tgt Ion: 75 Resp: 118441
Ion Ratio Lower Upper
75 100
53 0.0 46.3 138.9#
89 0.0 24.6 73.8#

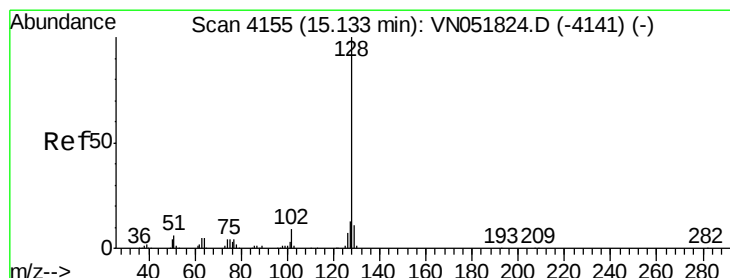
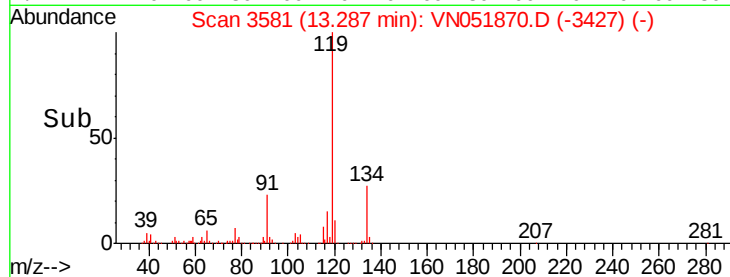
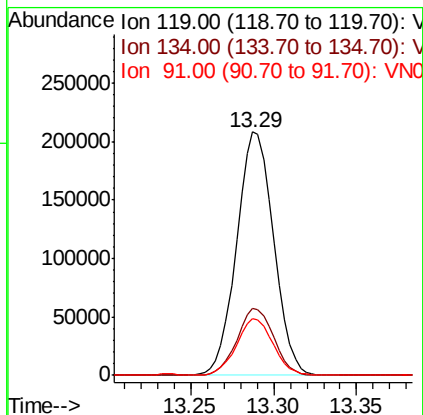
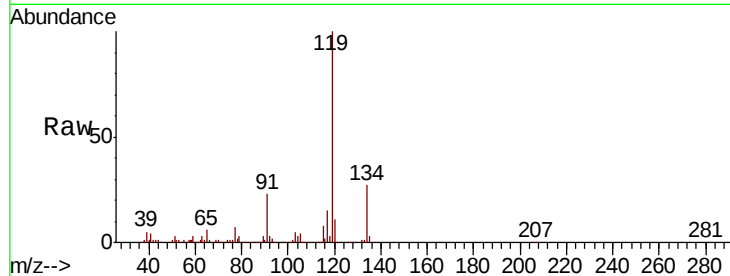




#82
p-Isopropyltoluene
Concen: 9.671 ug/l
RT: 13.29 min Scan# 3581
Delta R.T. -0.00 min
Lab File: VN051870.D
Acq: 15 Oct 2018 13:33

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:119 Resp: 322252
Ion Ratio Lower Upper
119 100
134 27.3 0.0 53.6
91 22.8 0.0 52.0



#91
Naphthalene
Concen: 8.671 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. -0.00 min
Lab File: VN051870.D
Acq: 15 Oct 2018 13:33

Tgt Ion:128 Resp: 2962
Ion Ratio Lower Upper
128 100
127 4.3 10.1 15.1#
129 0.0 8.4 12.6#

