

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101518\
 Data File : VN051868.D
 Acq On : 15 Oct 2018 12:27
 Operator : MD\SY
 Sample : J5512-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 16 00:45:20 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	126912	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	709826	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	582879	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	234454	30.36	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.20%
60) 4-Bromofluorobenzene	12.40	95	210177	25.01	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	83.37%
63) Toluene-d8	10.09	98	809618	31.99	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	106.63%

Target Compounds

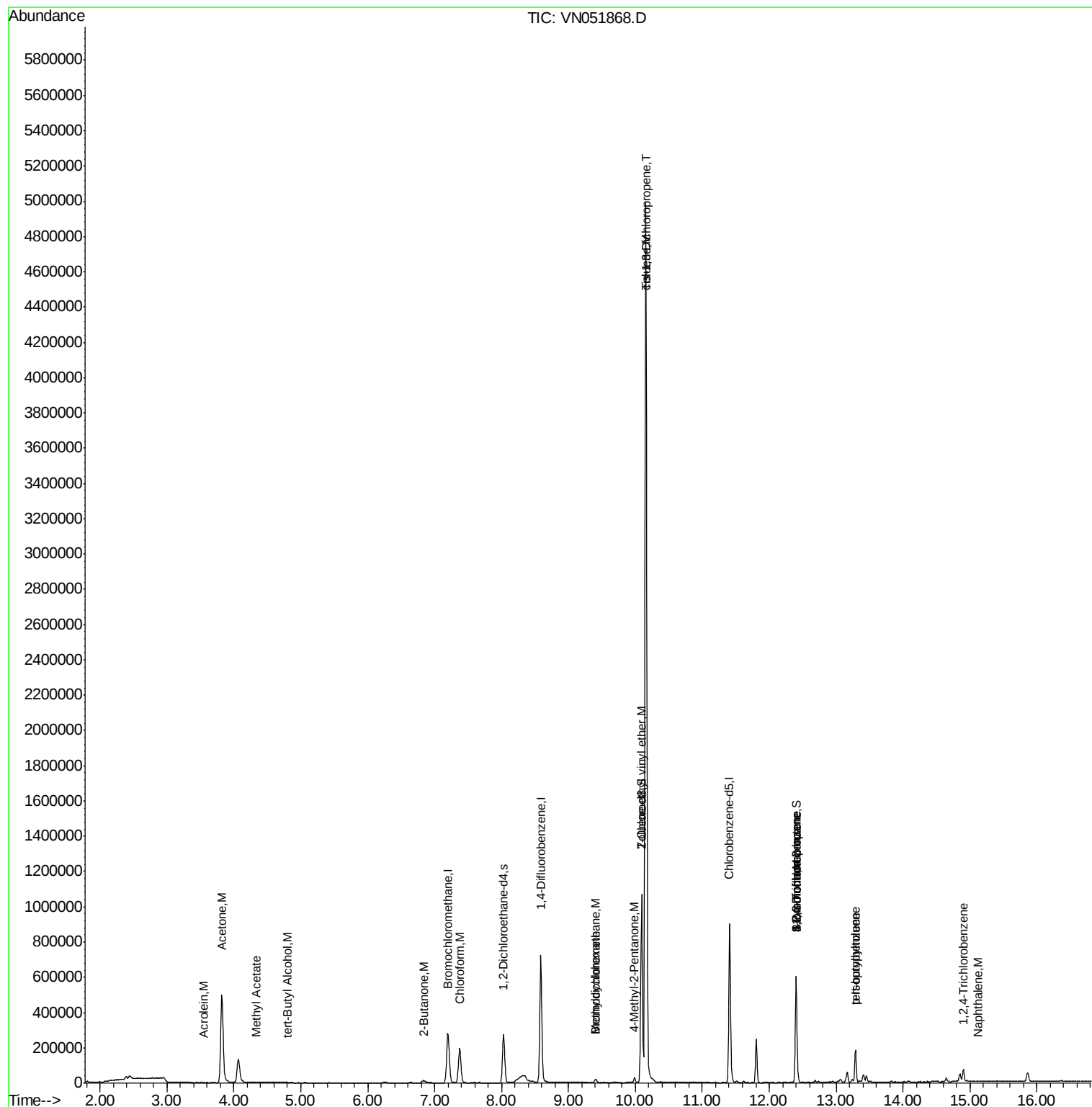
					Ovalue	
12) Methyl Acetate	4.34	43	4550	1.254	ug/l #	79
13) Acrolein	3.56	56	68	0.284	ug/l	84
15) Acetone	3.82	58	272480	679.707	ug/l	94
23) tert-Butyl Alcohol	4.79	59	105	0.246	ug/l #	100
25) Chloroform	7.37	83	208966	16.316	ug/l	97
30) 2-Butanone	6.85	43	10075	5.268	ug/l #	66
38) Methylcyclohexane	9.41	83	13988	1.192	ug/l #	16
41) Bromodichloromethane	9.41	83	13988	1.432	ug/l #	82
49) cis-1,3-Dichloropropene	10.16	75	26986	2.569	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.09	63	684	0.214	ug/l #	1
56) Bromoform	12.40	173	1853	0.347	ug/l #	1
58) 4-Methyl-2-Pentanone	9.99	43	20645	5.293	ug/l #	93
62) Toluene	10.16	91	4102164	141.666	ug/l	98
72) 1,2,3-Trichloropropane	12.40	75	105283	19.868	ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	105283	60.074	ug/l #	12
79) tert-butylbenzene	13.29	119	107380	4.140	ug/l	58
82) p-Isopropyltoluene	13.29	119	107380	3.536	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	94	7.737	ug/l #	11
91) Naphthalene	15.14	128	1684	8.619	ug/l #	70

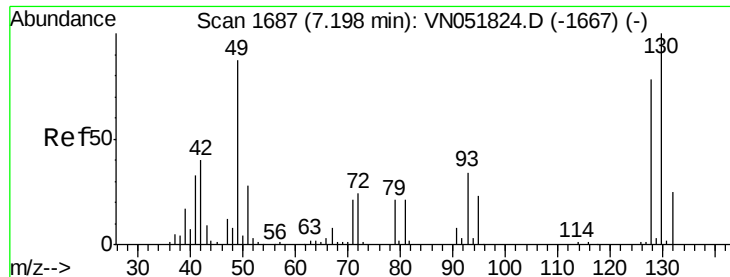
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN051868.D

Acq: 15 Oct 2018 12:27

Instrument :

MSVOA_N

ClientSampleId :

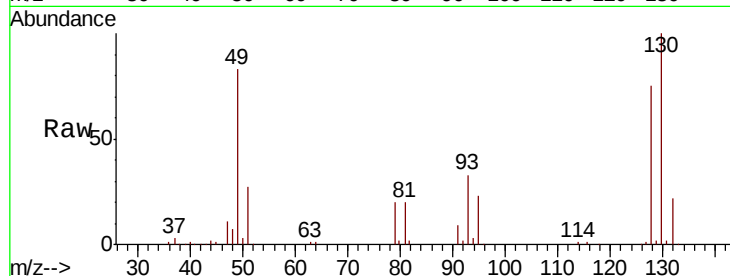
Tot Ion:128 Resp: 126912

Ion Ratio Lower Upper

128 100

49 110.1 0.0 403.3

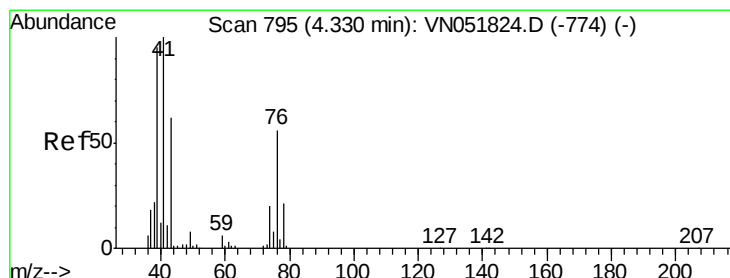
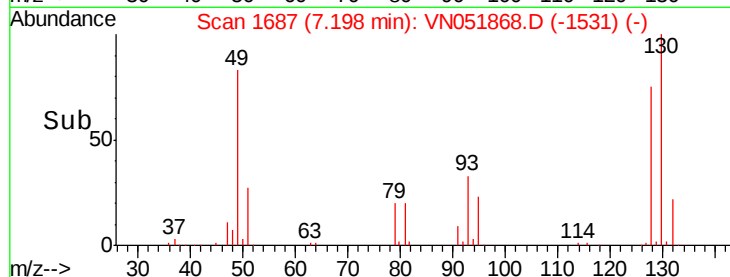
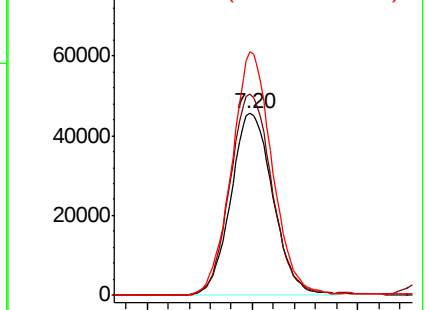
130 128.6 0.0 326.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN

Ion 130.00 (129.70 to 130.70): V



#12

Methyl Acetate

Concen: 1.254 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN051868.D

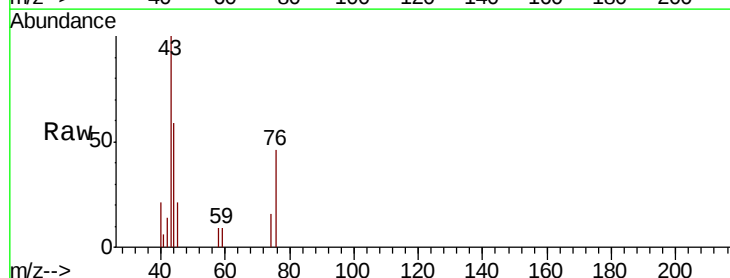
Acq: 15 Oct 2018 12:27

Tgt Ion: 43 Resp: 4550

Ion Ratio Lower Upper

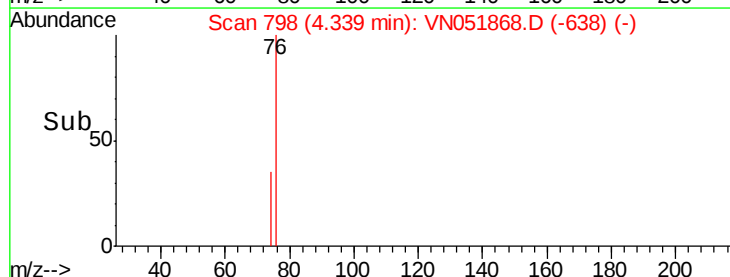
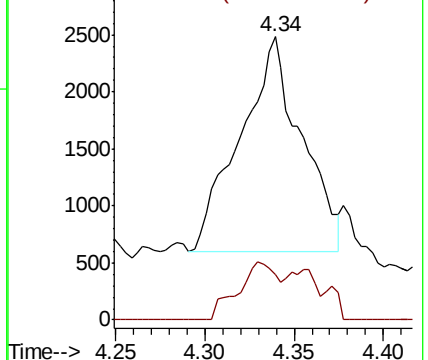
43 100

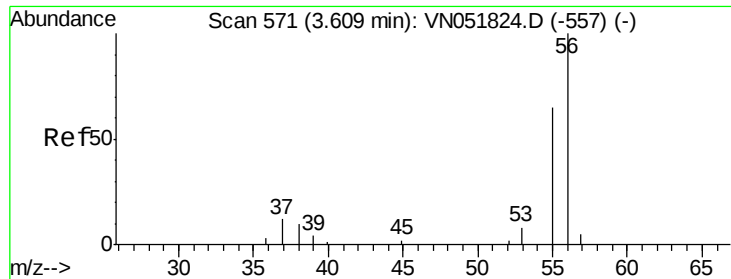
74 16.5 21.8 32.6#



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 74.00 (73.70 to 74.70): VN





#13

Acrolein

Concen: 0.284 ug/l

RT: 3.56 min Scan# 555

Delta R.T. -0.05 min

Lab File: VN051868.D

Acq: 15 Oct 2018 12:27

Instrument :

MSVOA_N

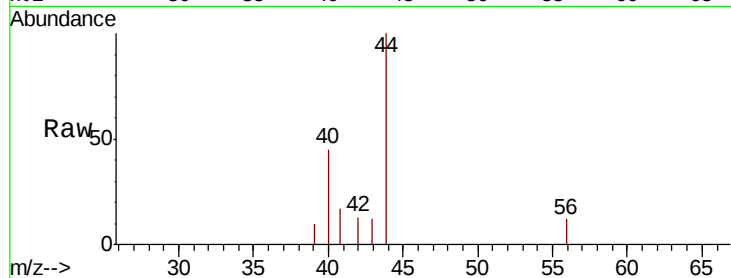
ClientSampled :

Tot Ion: 56 Resp: 68

Ion Ratio Lower Upper

56 100

55 94.1 64.0 96.0



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.56

150

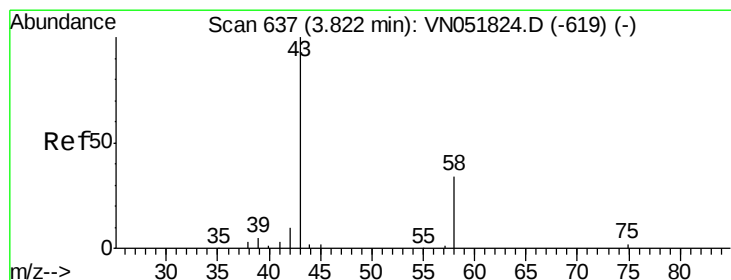
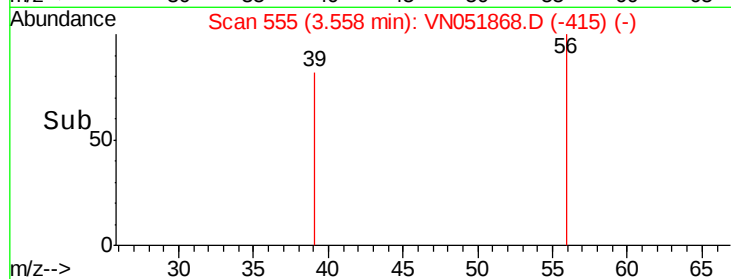
100

50

0

3.55 3.56 3.56

Time-->



#15

Acetone

Concen: 679.707 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN051868.D

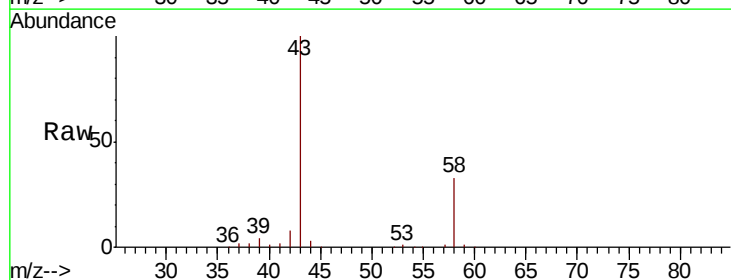
Acq: 15 Oct 2018 12:27

Tgt Ion: 58 Resp: 272480

Ion Ratio Lower Upper

58 100

43 300.9 232.2 348.2



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

3.82

300000

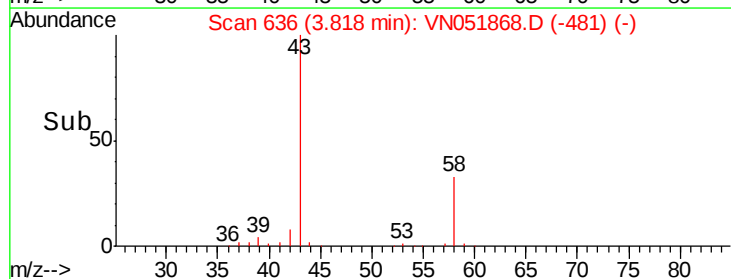
200000

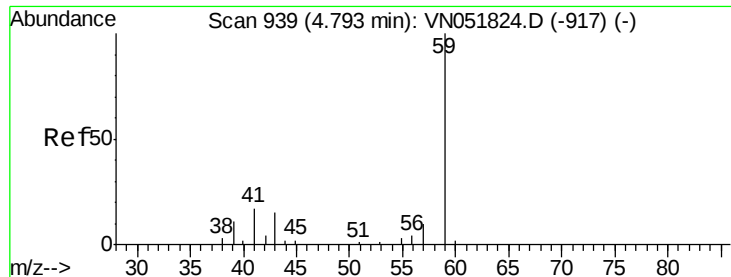
100000

0

3.70 3.75 3.80 3.85 3.90

Time-->



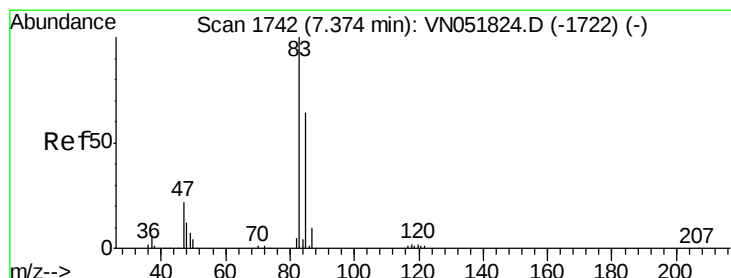
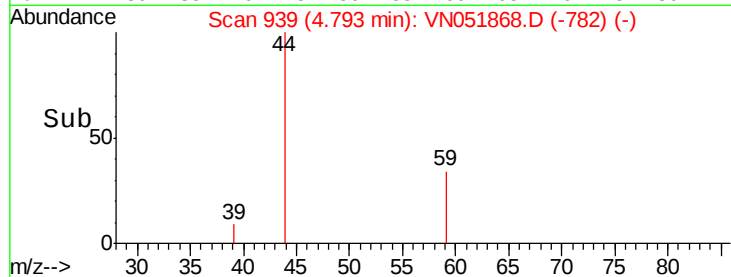
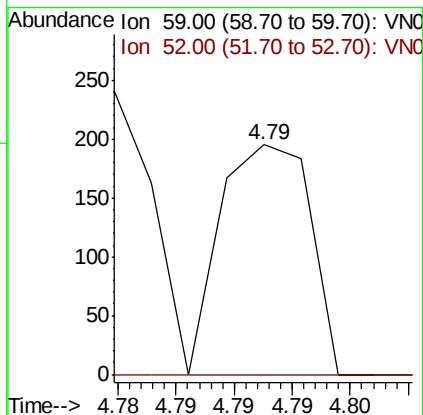
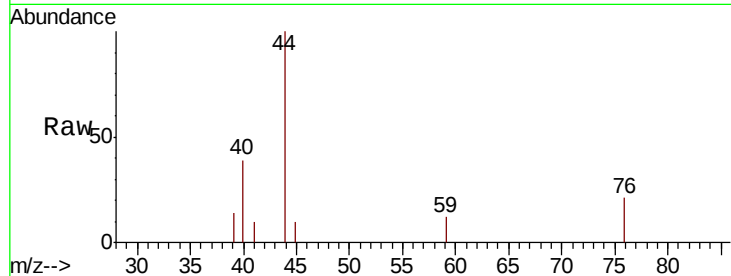


#23

tert-Butyl Alcohol
 Concen: 0.246 ug/l
 RT: 4.79 min Scan# 939
 Delta R.T. 0.00 min
 Lab File: VN051868.D
 Acq: 15 Oct 2018 12:27

Instrument :
 MSVOA_N
 ClientSampled :

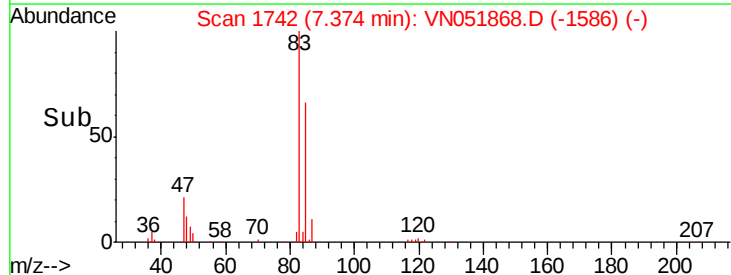
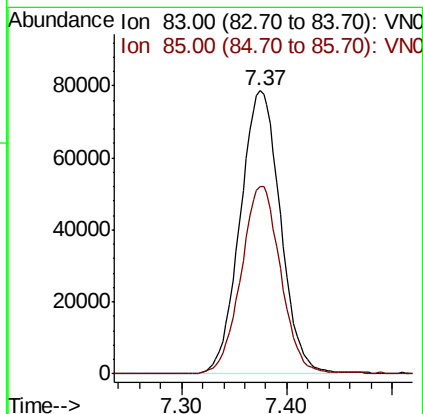
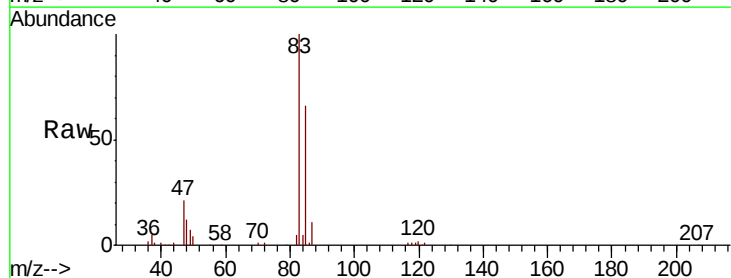
Tot Ion: 59 Resp: 105
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0

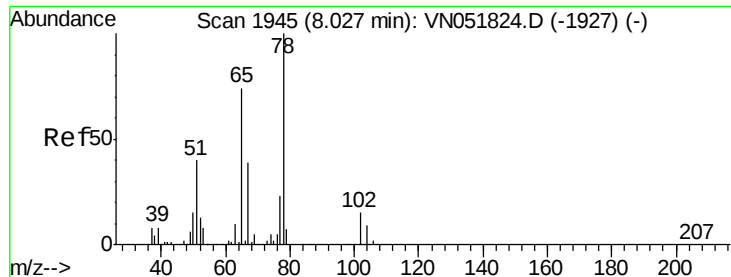


#25

Chloroform
 Concen: 16.316 ug/l
 RT: 7.37 min Scan# 1742
 Delta R.T. 0.00 min
 Lab File: VN051868.D
 Acq: 15 Oct 2018 12:27

Tgt Ion: 83 Resp: 208966
 Ion Ratio Lower Upper
 83 100
 85 66.1 54.6 82.0





#27

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051868.D

Acq: 15 Oct 2018 12:27

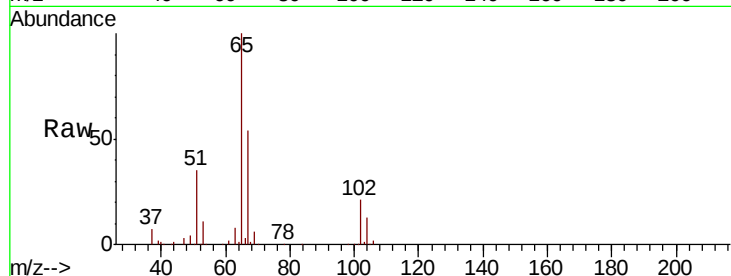
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 65 Resp: 234454

Ion Ratio Lower Upper

65 100

67 52.6 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

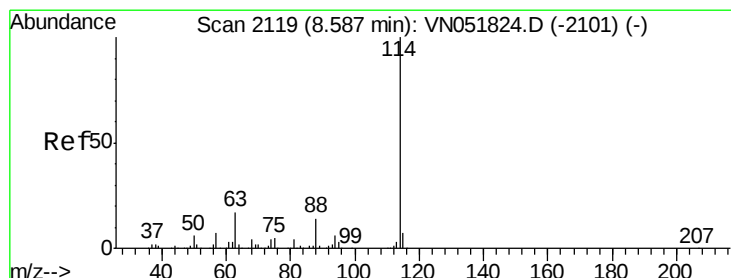
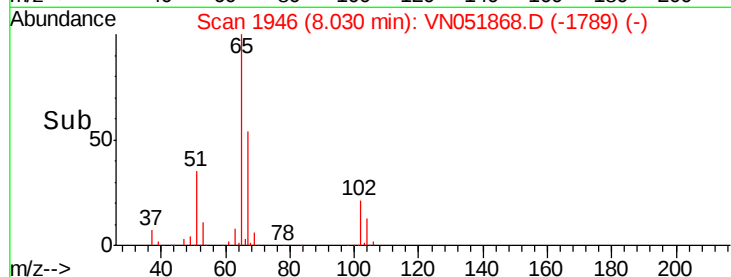
60000

40000

20000

0

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN051868.D

Acq: 15 Oct 2018 12:27

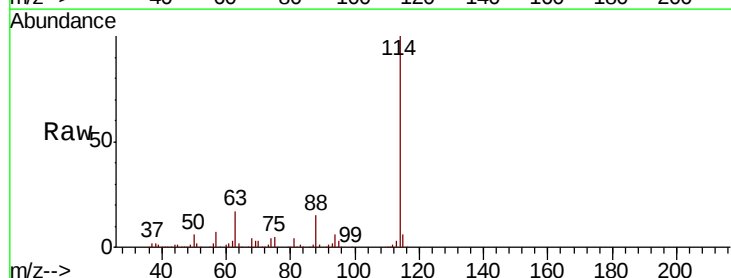
Tgt Ion: 114 Resp: 709826

Ion Ratio Lower Upper

114 100

63 16.5 16.2 24.2

88 14.4 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

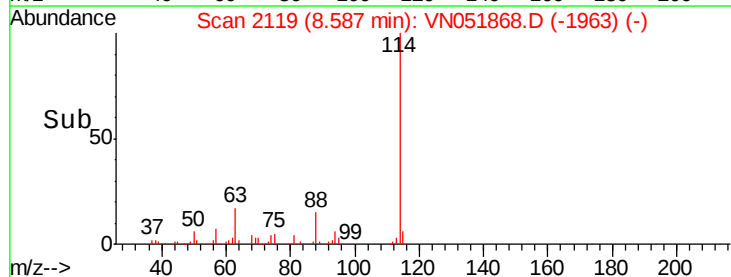
300000

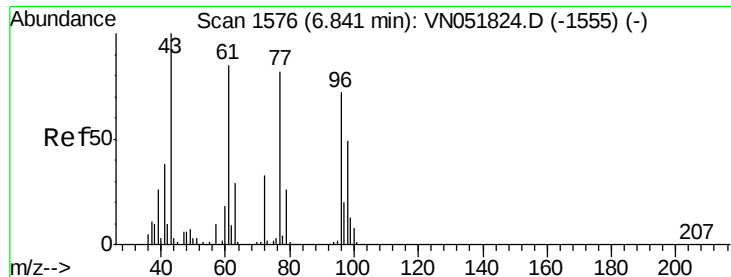
200000

100000

0

Time-->

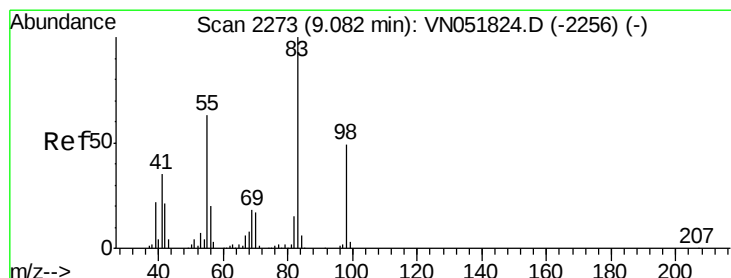
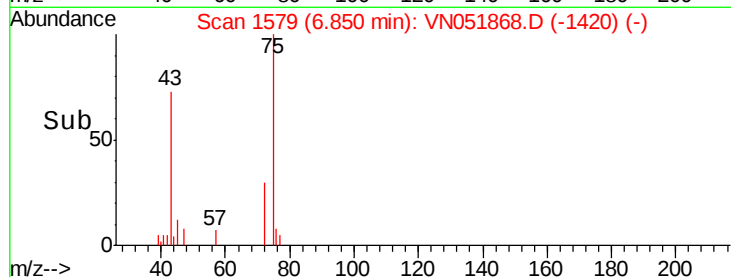
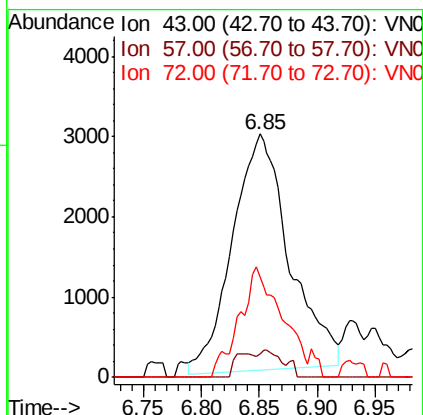
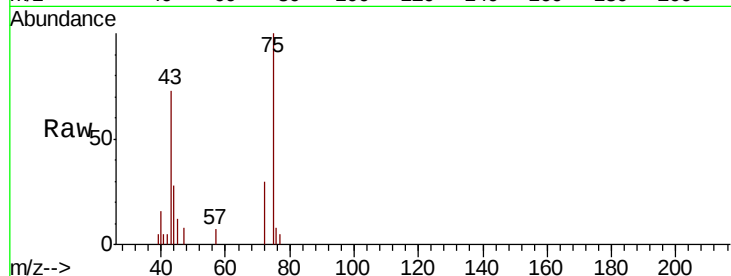




#30
2-Butanone
Concen: 5.268 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VN051868.D
Acq: 15 Oct 2018 12:27

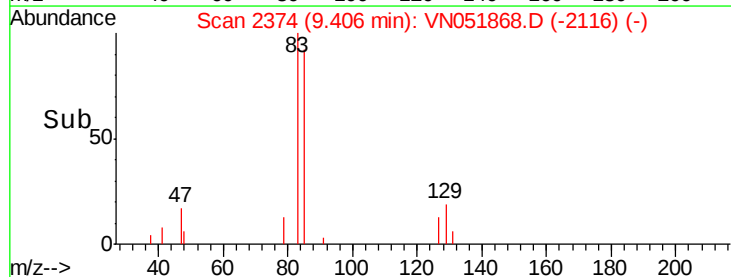
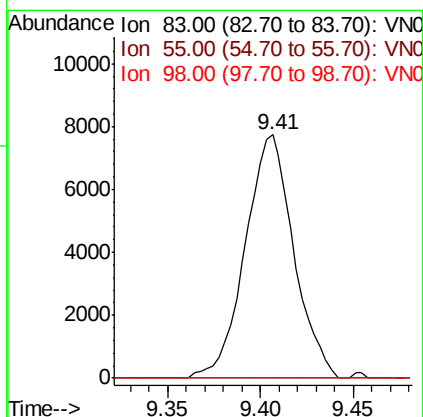
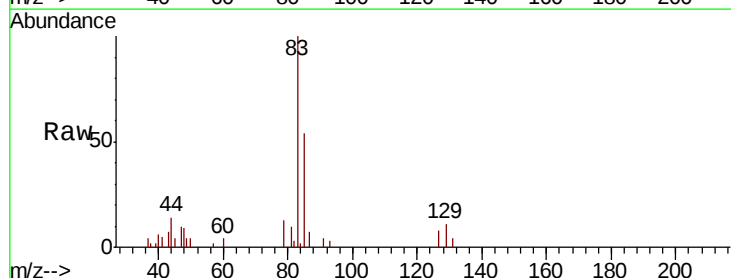
Instrument :
MSVOA_N
ClientSampleId :

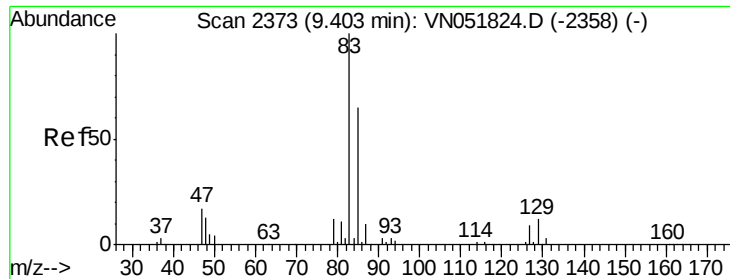
Tot Ion: 43 Resp: 10075
Ion Ratio Lower Upper
43 100
57 4.1 4.5 6.7#
72 6.3 21.5 32.3#



#38
Methylcyclohexane
Concen: 1.192 ug/l
RT: 9.41 min Scan# 2374
Delta R.T. 0.33 min
Lab File: VN051868.D
Acq: 15 Oct 2018 12:27

Tgt Ion: 83 Resp: 13988
Ion Ratio Lower Upper
83 100
55 0.5 43.0 129.2#
98 0.0 21.3 63.7#





#41

Bromodichloromethane

Concen: 1.432 ug/l

RT: 9.41 min Scan# 2374

Delta R.T. 0.00 min

Lab File: VN051868.D

Acq: 15 Oct 2018 12:27

Instrument :

MSVOA_N

ClientSampleId :

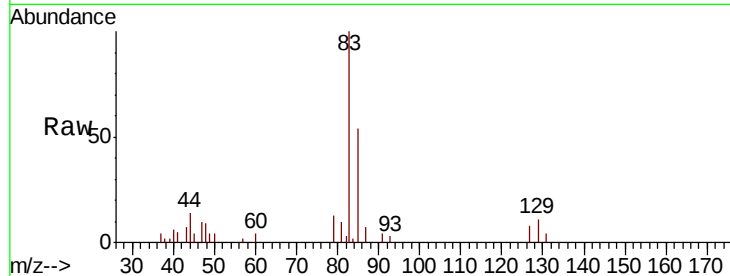
Tot Ion: 83 Resp: 13988

Ion Ratio Lower Upper

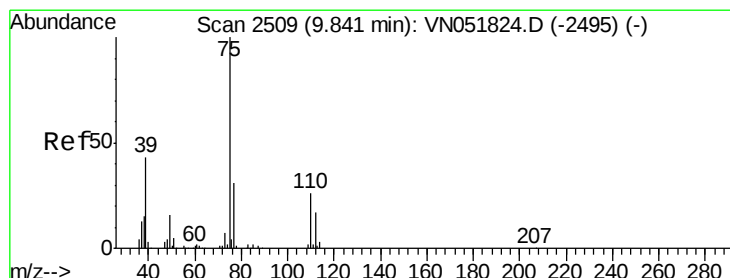
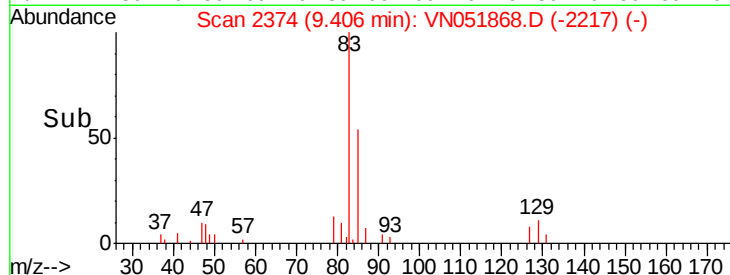
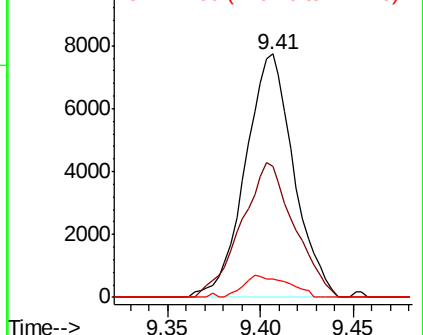
83 100

85 54.0 55.7 83.5#

127 7.7 8.2 12.4#



Abundance Ion 83.00 (82.70 to 83.70): VNO
Ion 85.00 (84.70 to 85.70): VNO
Ion 127.00 (126.70 to 127.70): VNO



#49

cis-1,3-Dichloropropene

Concen: 2.569 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.32 min

Lab File: VN051868.D

Acq: 15 Oct 2018 12:27

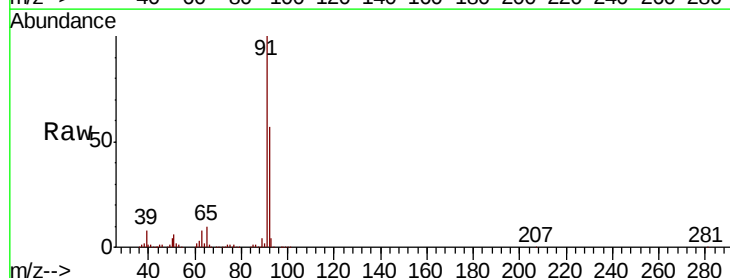
Tgt Ion: 75 Resp: 26986

Ion Ratio Lower Upper

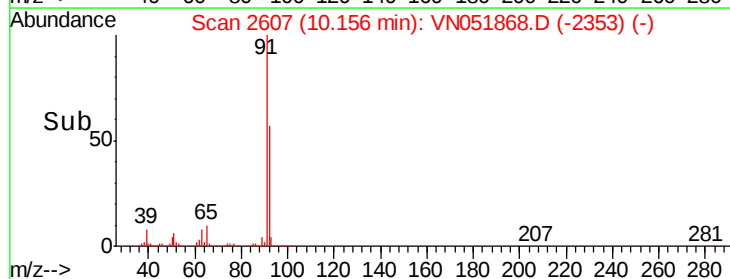
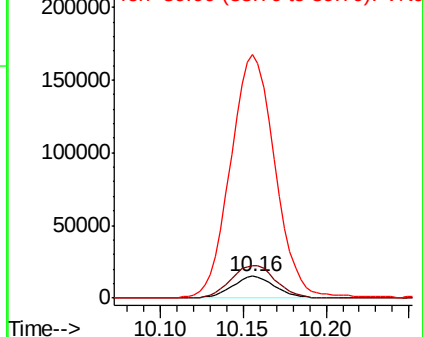
75 100

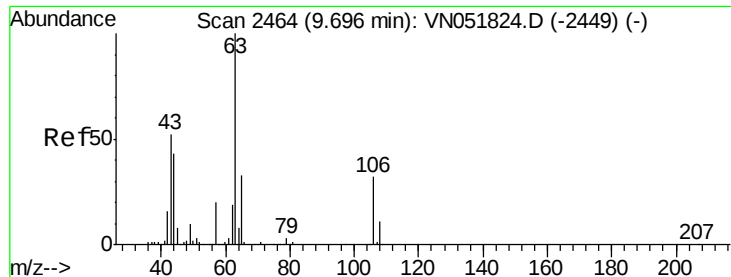
77 149.4 23.2 34.8#

39 1108.7 34.6 52.0#



Abundance Ion 75.00 (74.70 to 75.70): VNO
Ion 77.00 (76.70 to 77.70): VNO
Ion 39.00 (38.70 to 39.70): VNO

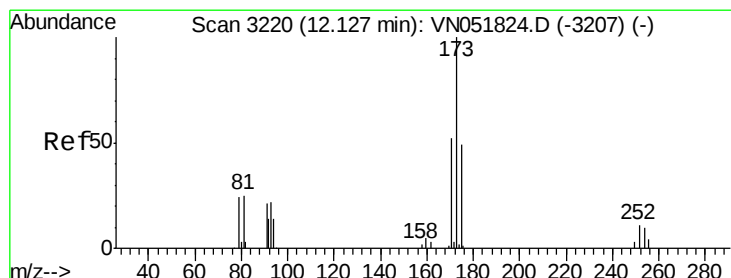
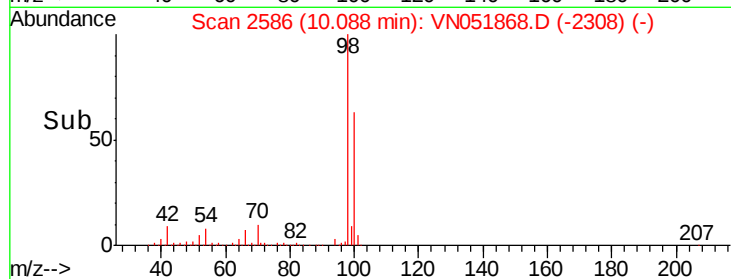
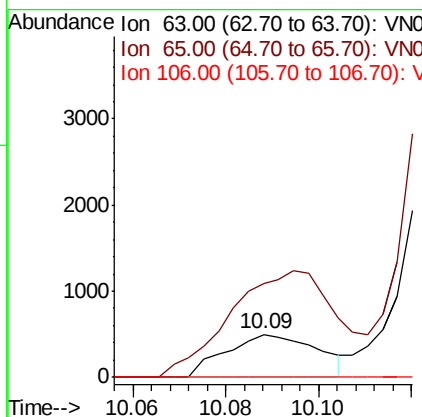
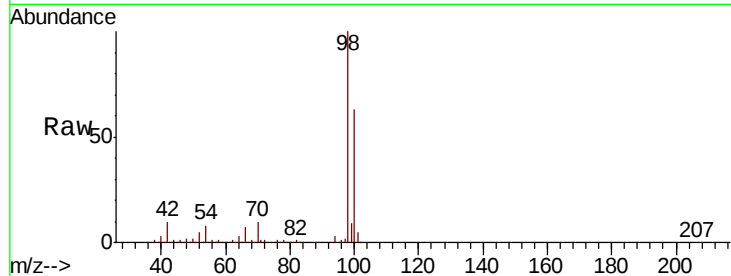




#55
 2-Chloroethyl vinyl ether
 Concen: 0.214 ug/l
 RT: 10.09 min Scan# 2586
 Delta R.T. 0.39 min
 Lab File: VN051868.D
 Acq: 15 Oct 2018 12:27

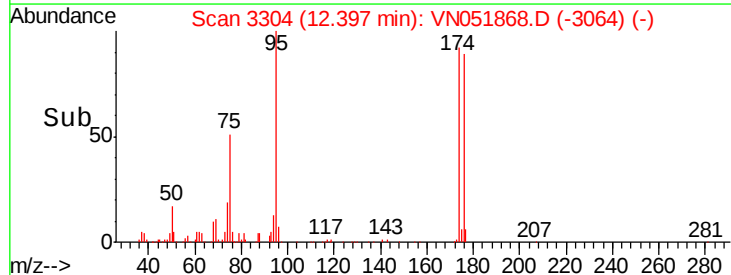
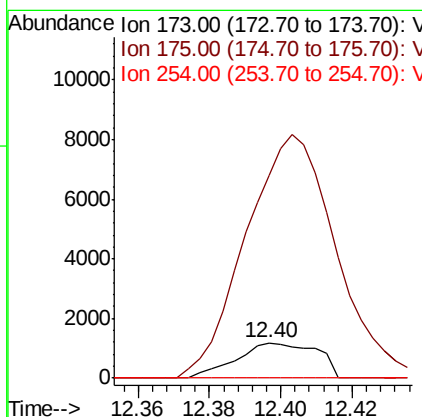
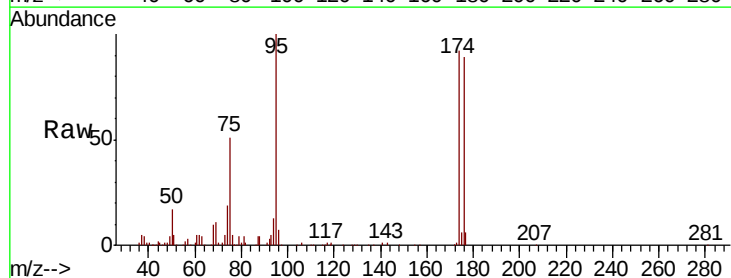
Instrument :
 MSVOA_N
 ClientSampleId :

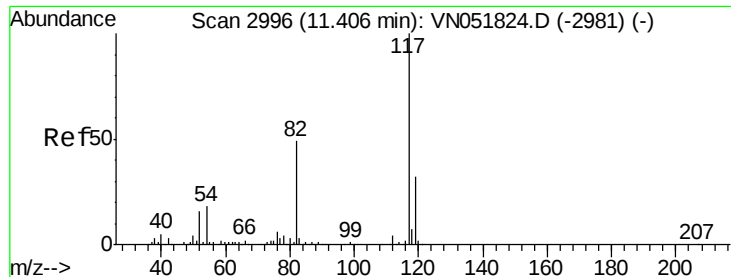
Tot Ion: 63 Resp: 684
 Ion Ratio Lower Upper
 63 100
 65 294.7 25.4 38.0#
 106 0.0 21.2 31.8#



#56
 Bromoform
 Concen: 0.347 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.27 min
 Lab File: VN051868.D
 Acq: 15 Oct 2018 12:27

Tgt Ion: 173 Resp: 1853
 Ion Ratio Lower Upper
 173 100
 175 770.3 35.8 53.8#
 254 0.0 8.6 13.0#

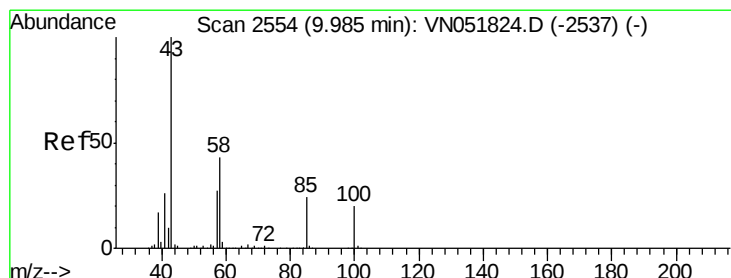
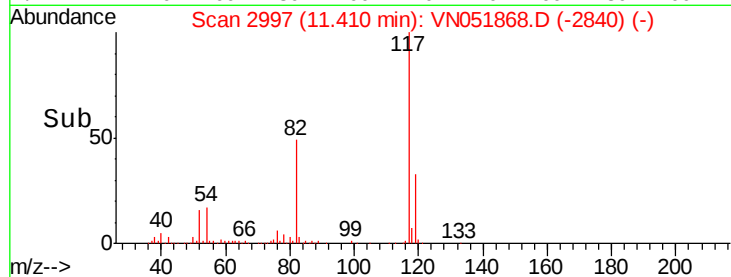
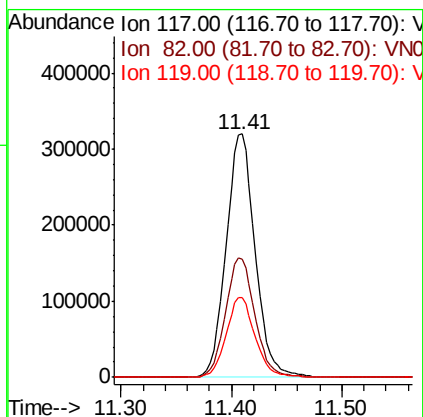
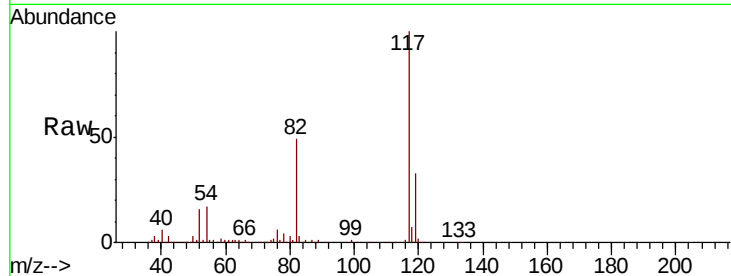




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051868.D
Acq: 15 Oct 2018 12:27

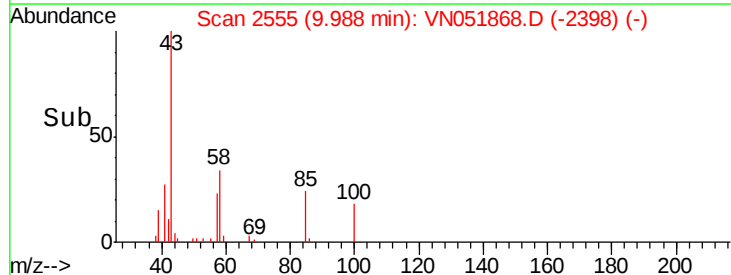
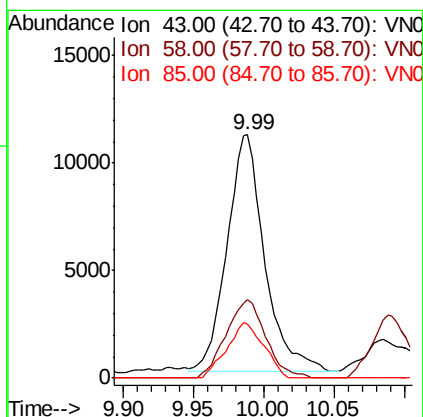
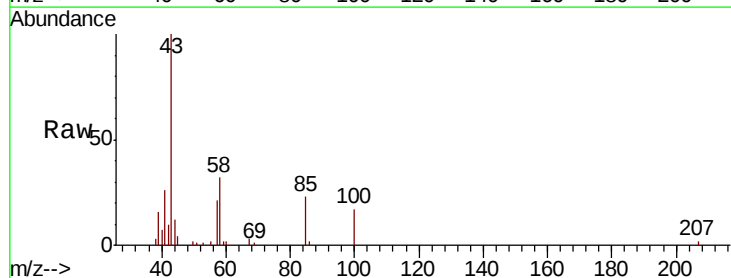
Instrument :
MSVOA_N
ClientSampleId :

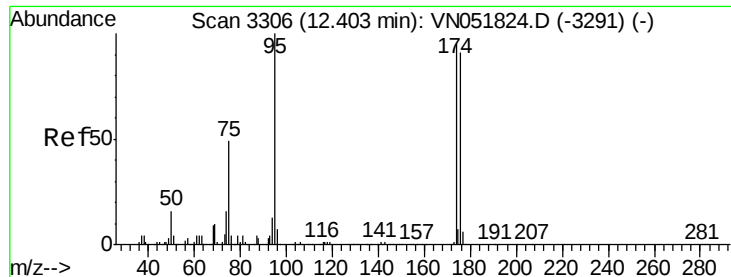
Tot Ion	Ratio	Lower	Upper
117	100		
82	49.7	44.1	66.1
119	32.8	25.8	38.8



#58
4-Methyl-2-Pentanone
Concen: 5.293 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN051868.D
Acq: 15 Oct 2018 12:27

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.7	29.3	43.9
85	22.6	12.6	18.8

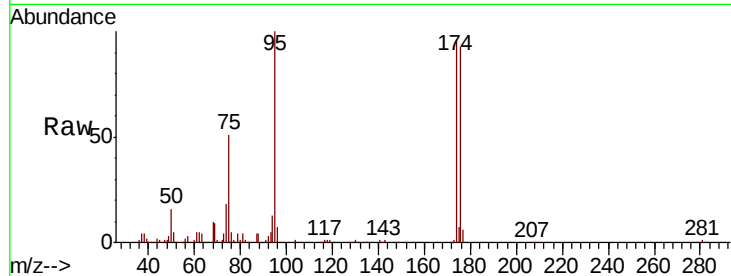




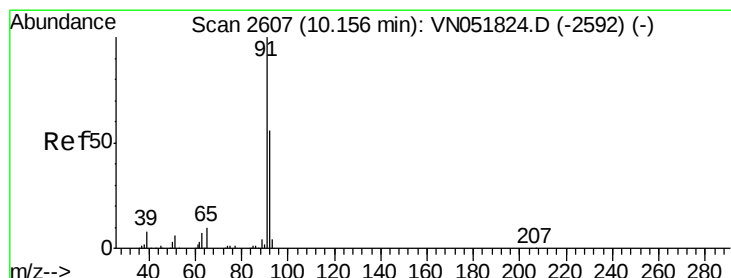
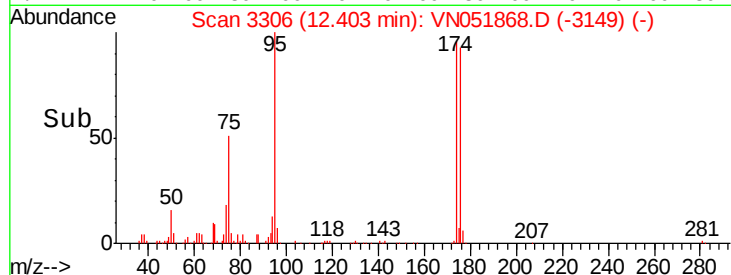
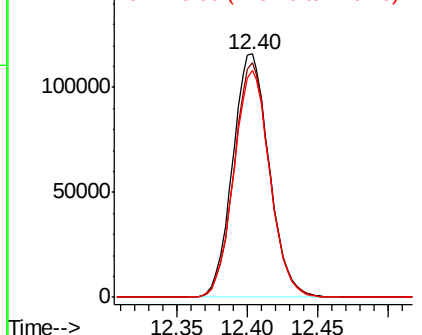
#60
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051868.D
Acq: 15 Oct 2018 12:27

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
95	100		
174	94.2	73.5	110.3
176	91.7	70.2	105.2

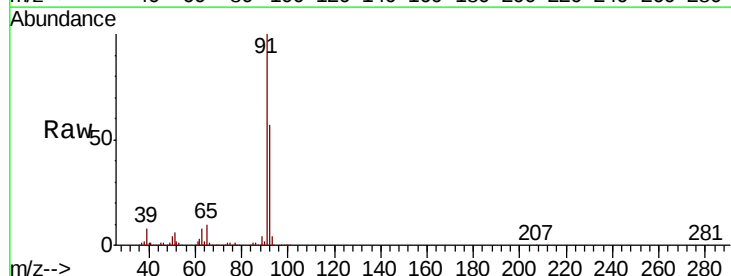


Abundance Ion 95.00 (94.70 to 95.70): VN0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V

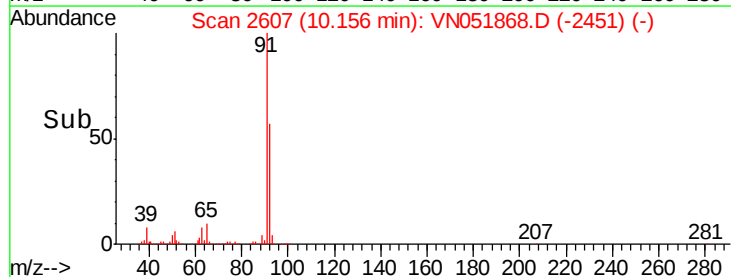
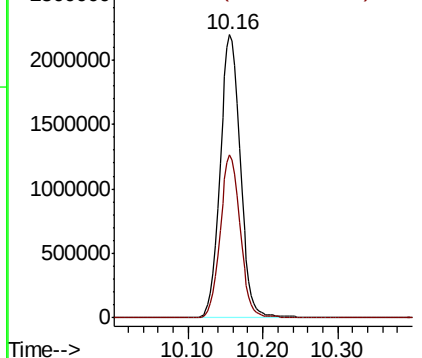


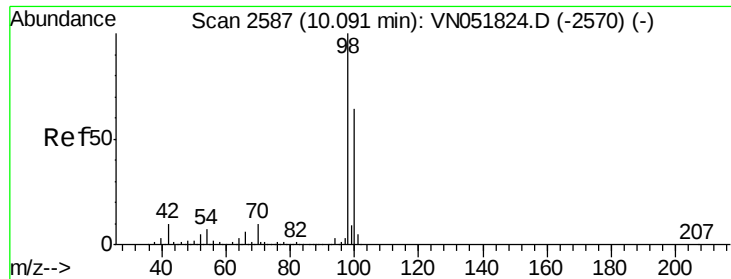
#62
Toluene
Concen: 141.666 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN051868.D
Acq: 15 Oct 2018 12:27

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.0	44.6	66.8



Abundance Ion 91.00 (90.70 to 91.70): VN0
Ion 92.00 (91.70 to 92.70): VN0





#63

Toluene-d8

Concen: 141.666 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051868.D

Acq: 15 Oct 2018 12:27

Instrument :

MSVOA_N

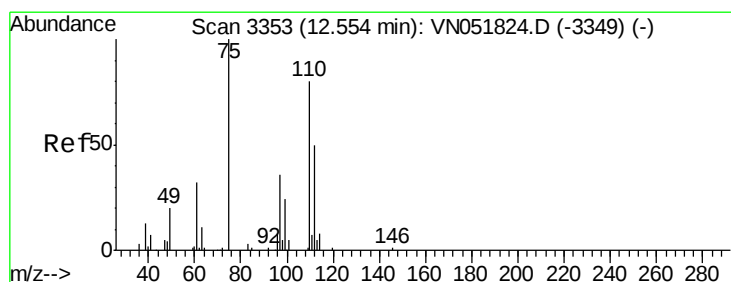
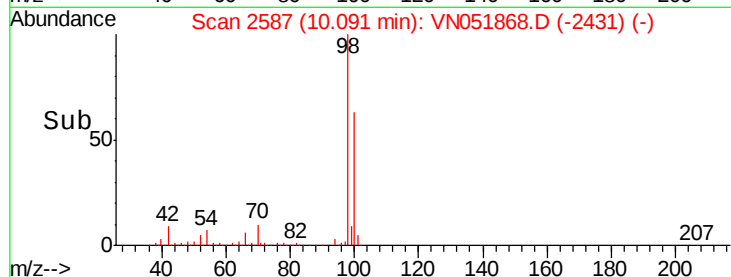
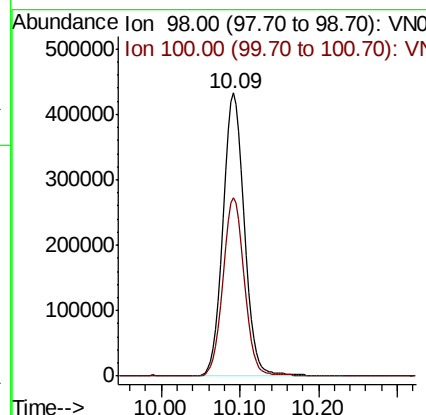
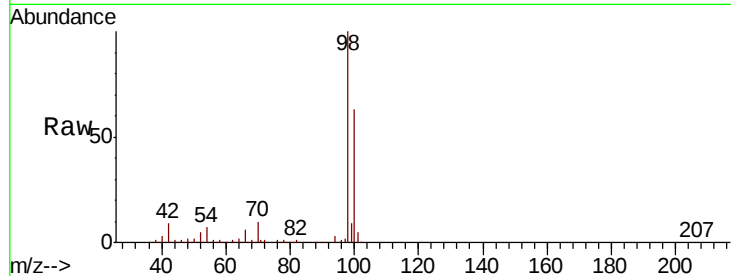
ClientSampled :

Tot Ion: 98 Resp: 809618

Ion Ratio Lower Upper

98 100

100 62.7 50.8 76.2



#72

1,2,3-Trichloropropane

Concen: 19.868 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051868.D

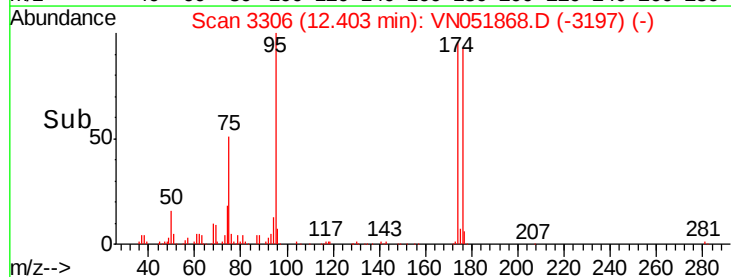
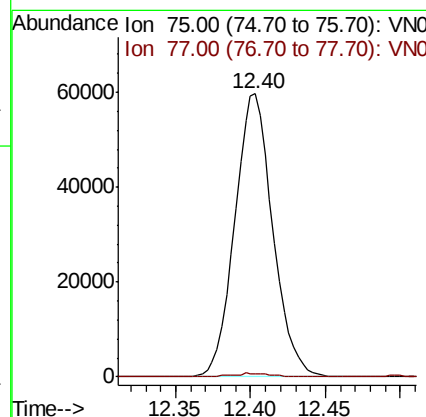
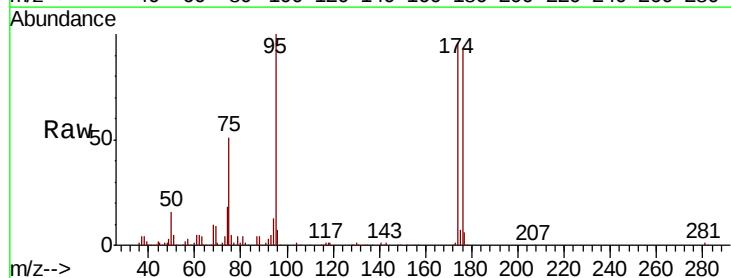
Acq: 15 Oct 2018 12:27

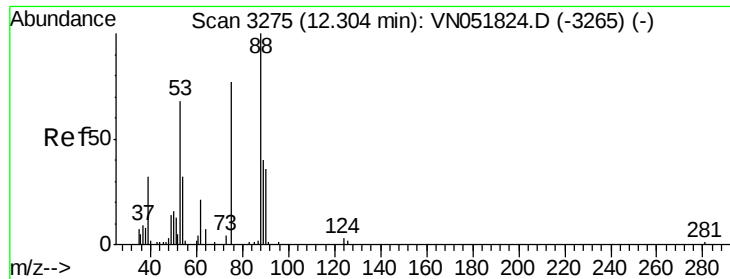
Tgt Ion: 75 Resp: 105283

Ion Ratio Lower Upper

75 100

77 0.6 0.0 400.0





#77

t-1,4-Dichloro-2-butene

Concen: 60.074 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051868.D

Acq: 15 Oct 2018 12:27

Instrument :

MSVOA_N

ClientSampleId :

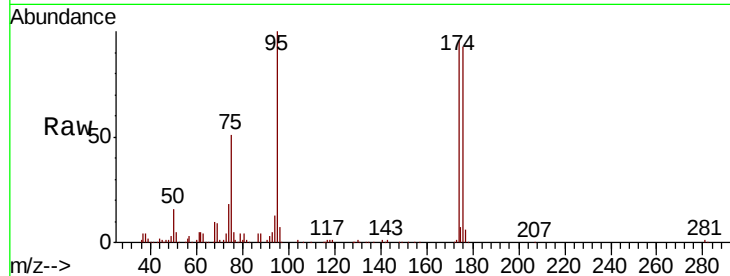
Tot Ion: 75 Resp: 105283

Ion Ratio Lower Upper

75 100

53 0.0 46.3 138.9#

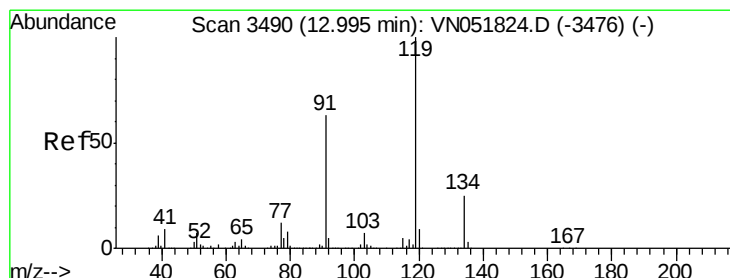
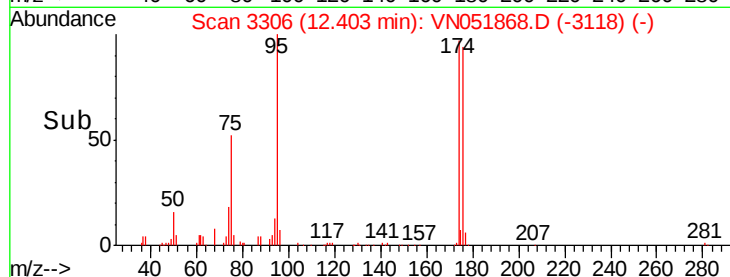
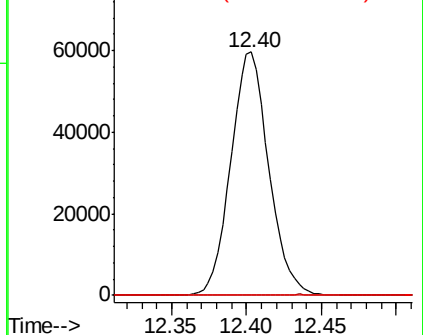
89 0.0 24.6 73.8#



Abundance Ion 75.00 (74.70 to 75.70): VN051868.D (-3306) (-)

Ion 53.00 (52.70 to 53.70): VN051868.D (-3306) (-)

Ion 89.00 (88.70 to 89.70): VN051868.D (-3306) (-)



#79

tert-butylbenzene

Concen: 4.140 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.30 min

Lab File: VN051868.D

Acq: 15 Oct 2018 12:27

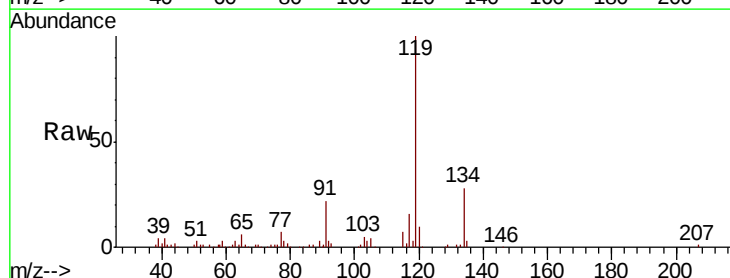
Tgt Ion: 119 Resp: 107380

Ion Ratio Lower Upper

119 100

91 23.2 0.0 131.6

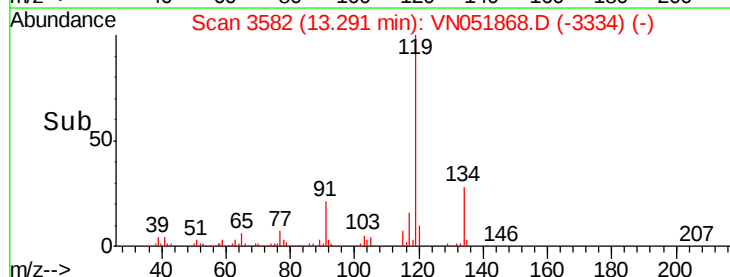
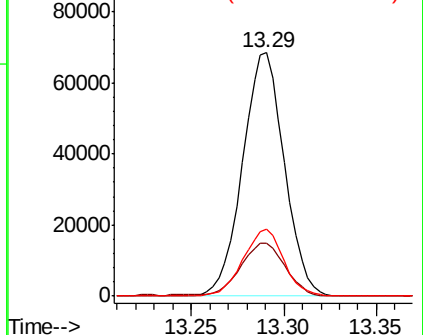
134 26.8 0.0 46.2

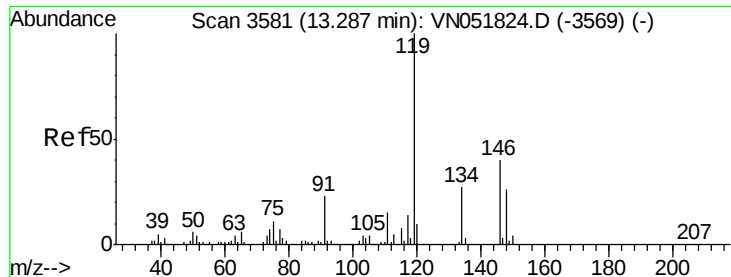


Abundance Ion 119.00 (118.70 to 119.70): VN051868.D (-3582) (-)

Ion 91.00 (90.70 to 91.70): VN051868.D (-3582) (-)

Ion 134.00 (133.70 to 134.70): VN051868.D (-3582) (-)

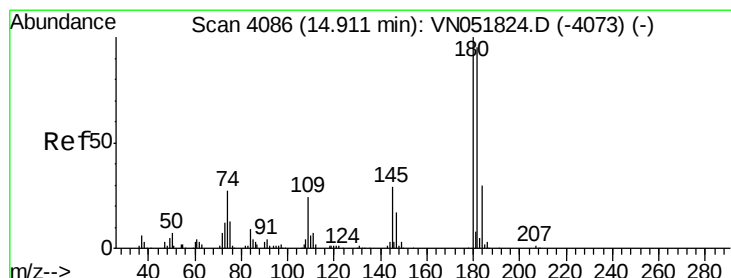
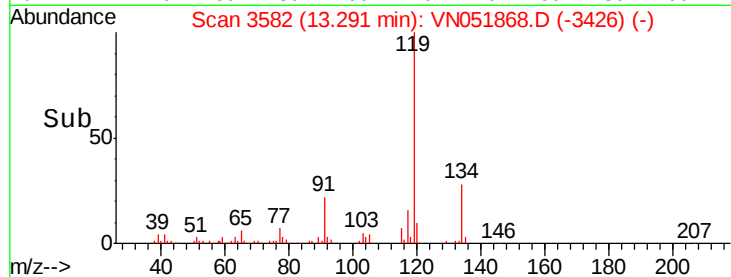
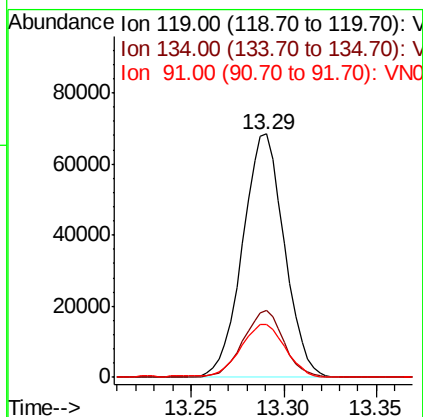
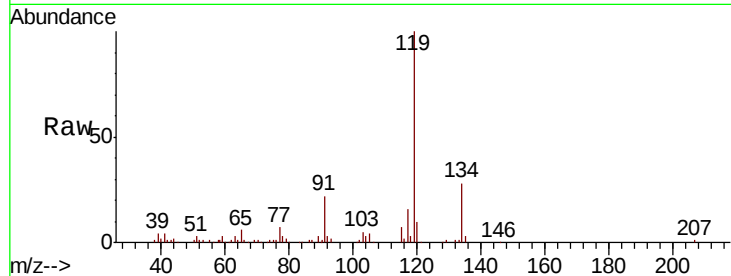




#82
 p-Isopropyltoluene
 Concen: 3.536 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN051868.D
 Acq: 15 Oct 2018 12:27

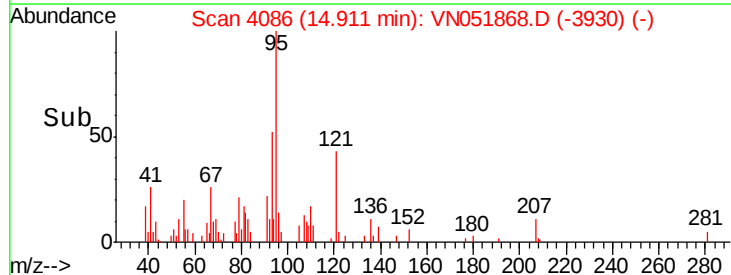
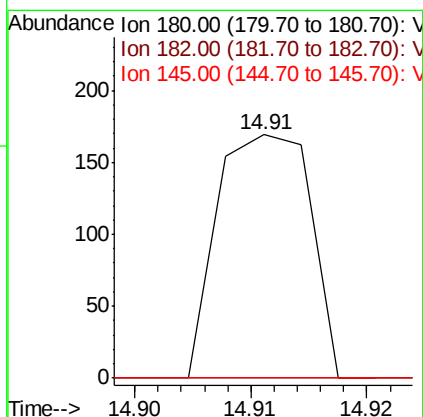
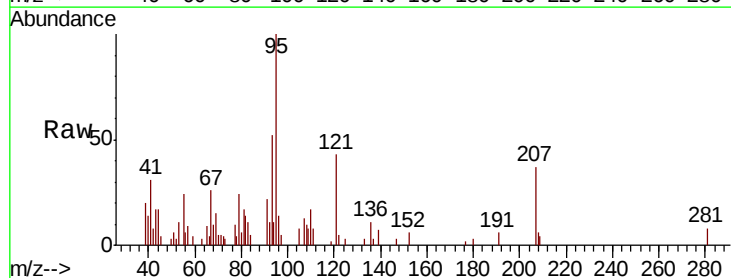
Instrument :
 MSVOA_N
 ClientSampleId :

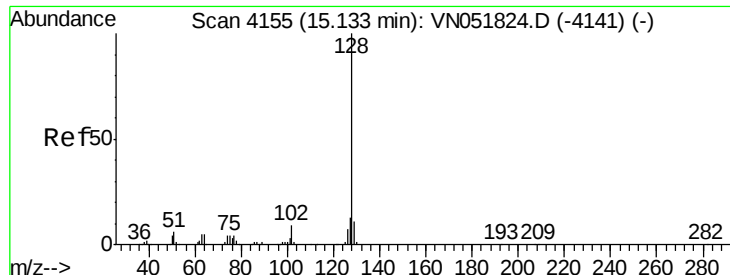
Tot Ion:119 Resp: 107380
 Ion Ratio Lower Upper
 119 100
 134 26.8 0.0 53.6
 91 23.2 0.0 52.0



#89
 1,2,4-Trichlorobenzene
 Concen: 7.737 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN051868.D
 Acq: 15 Oct 2018 12:27

Tgt Ion:180 Resp: 94
 Ion Ratio Lower Upper
 180 100
 182 0.0 77.7 116.5#
 145 0.0 23.4 35.2#





#91

Naphthalene

Concen: 8.619 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN051868.D

Acq: 15 Oct 2018 12:27

Instrument :

MSVOA_N

ClientSampleId :

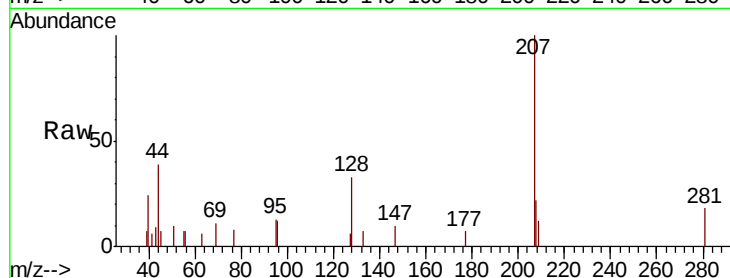
Tot Ion:128 Resp: 1684

Ion Ratio Lower Upper

128 100

127 0.0 10.1 15.1#

129 0.0 8.4 12.6#



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

