

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100118\
 Data File : VN051640.D
 Acq On : 1 Oct 2018 16:07
 Operator : MD\SY
 Sample : J5166-02DL 5X
 Misc : Sample
 ALS Vial : 16 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 002M-35TH-AVE(AUG)DL

Quant Time: Oct 02 01:02:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Sep 29 01:07:29 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	95132	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	468220	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	414837	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	207357	31.30	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.33%
60) 4-Bromofluorobenzene	12.40	95	143210	22.45	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	74.83%
63) Toluene-d8	10.09	98	542157	27.70	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	92.33%

Target Compounds

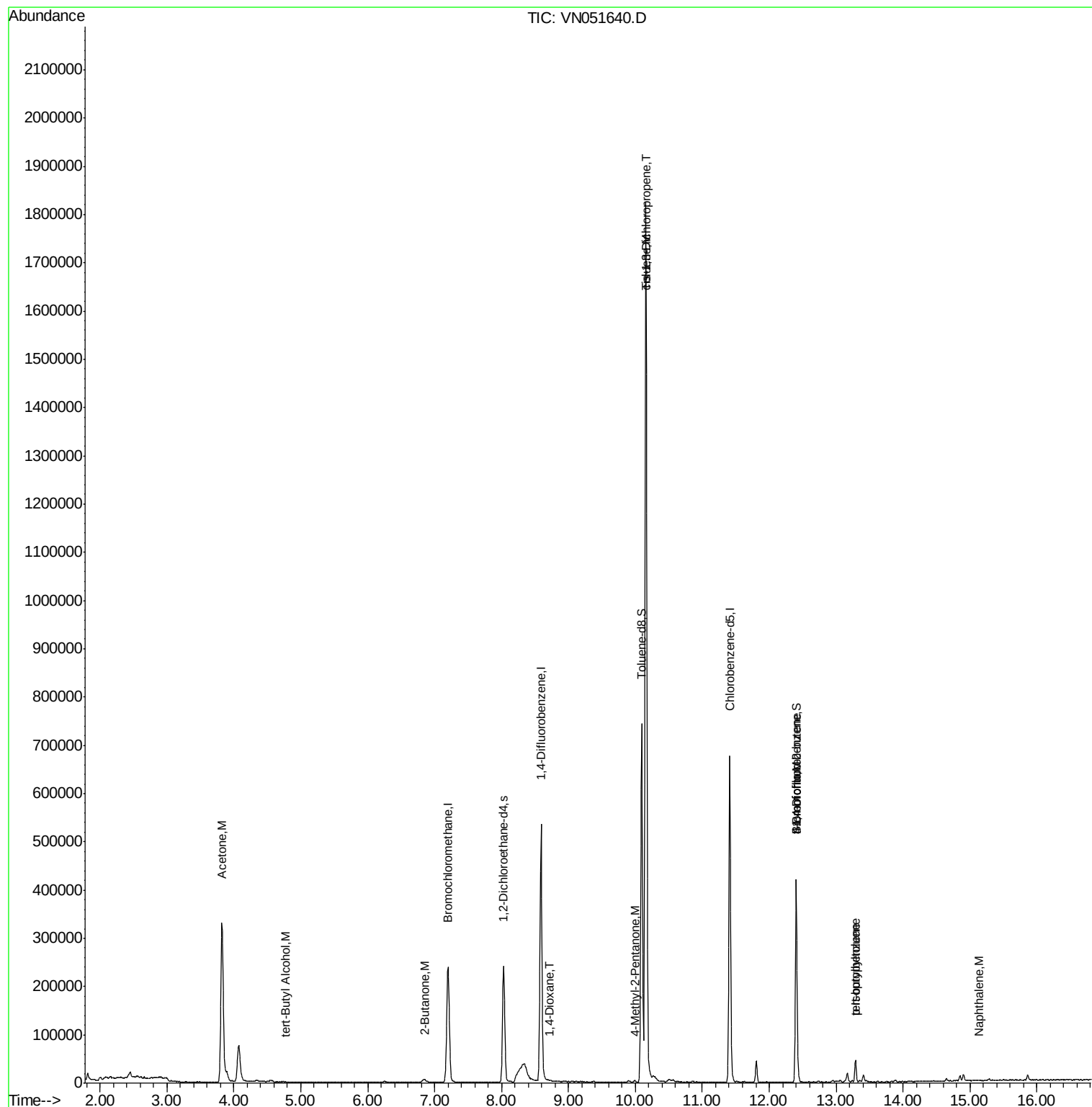
					Ovalue	
15) Acetone	3.82	58	180599	339.266	ug/l	93
23) tert-Butyl Alcohol	4.78	59	134	0.345	ug/l #	100
30) 2-Butanone	6.85	43	5979	2.752	ug/l #	89
45) 1,4-Dioxane	8.72	88	75	1.539	ug/l #	19
49) cis-1,3-Dichloropropene	10.16	75	9167	0.998	ug/l #	1
56) Bromoform	12.40	173	2552	0.663	ug/l #	1
58) 4-Methyl-2-Pentanone	9.99	43	3011	0.639	ug/l #	81
62) Toluene	10.16	91	1424688	56.009	ug/l	100
77) t-1,4-Dichloro-2-butene	12.40	75	68041	40.652	ug/l #	11
79) tert-butylbenzene	13.29	119	22588	1.221	ug/l	62
82) p-Isopropyltoluene	13.29	119	22588	1.034	ug/l	94
91) Naphthalene	15.13	128	133	8.282	ug/l #	68

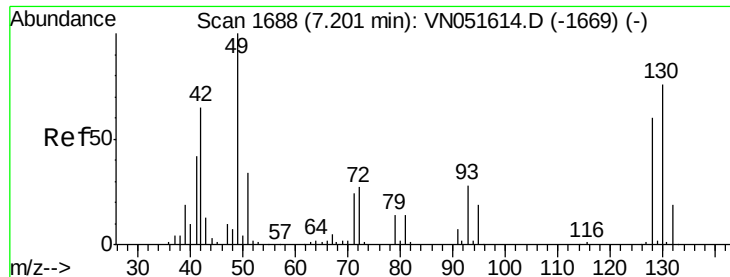
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : Sample
ALS Vial : 16 Sample Multiplier: 28

Instrument :
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ClientSampleId :
002M-35TH-AVE(AUG)DL

Quant Time: Oct 02 01:02:35 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092818W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Sep 29 01:07:29 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. -0.00 min

Lab File: VN051640.D

Acq: 1 Oct 2018 16:07

Instrument :
MSVOA_N
ClientSampleId :
002M-35TH-AVE(AUG)DL

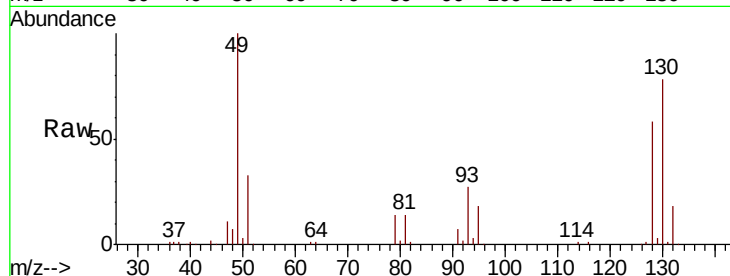
Tot Ion:128 Resp: 95132

Ion Ratio Lower Upper

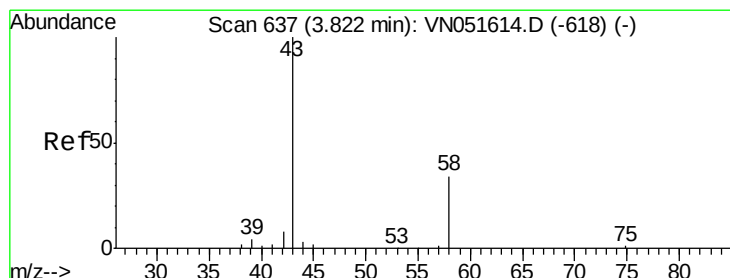
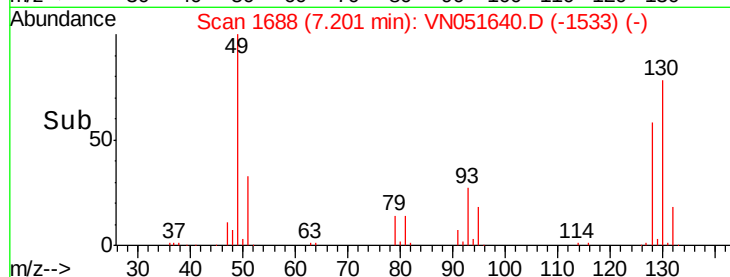
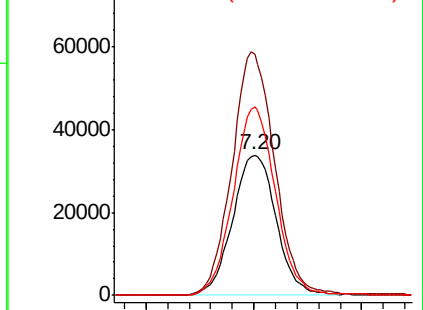
128 100

49 170.2 0.0 426.8

130 130.1 0.0 326.3



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



#15

Acetone

Concen: 339.266 ug/l

RT: 3.82 min Scan# 637

Delta R.T. -0.00 min

Lab File: VN051640.D

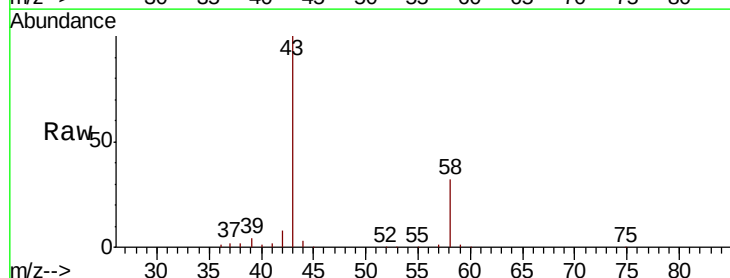
Acq: 1 Oct 2018 16:07

Tgt Ion: 58 Resp: 180599

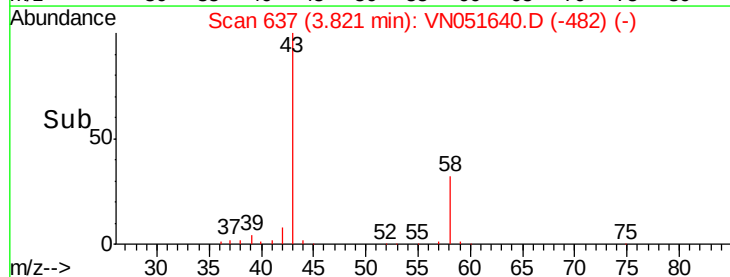
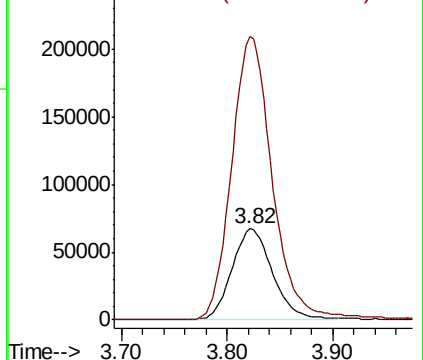
Ion Ratio Lower Upper

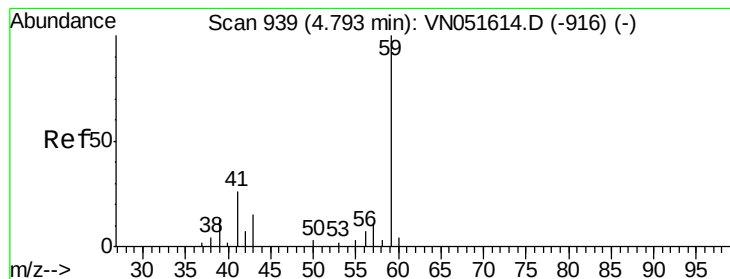
58 100

43 310.8 238.0 357.0



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





#23

tert-Butyl Alcohol

Concen: 0.345 ug/l

RT: 4.78 min Scan# 934

Delta R.T. -0.02 min

Lab File: VN051640.D

Acq: 1 Oct 2018 16:07

Instrument :

MSVOA_N

ClientSampleId :

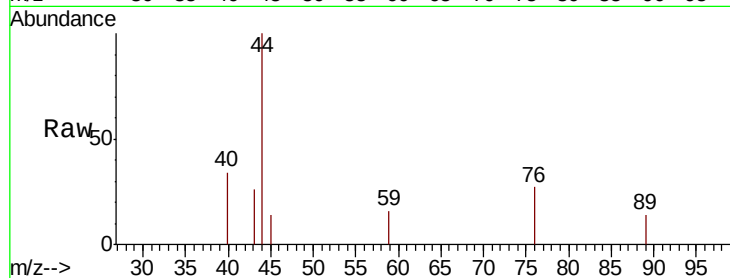
002M-35TH-AVE(AUG)DL

Tot Ion: 59 Resp: 134

Ion Ratio Lower Upper

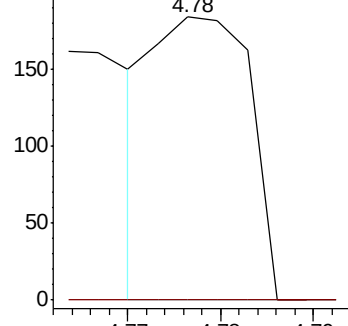
59 100

52 0.0 0.0 0.0

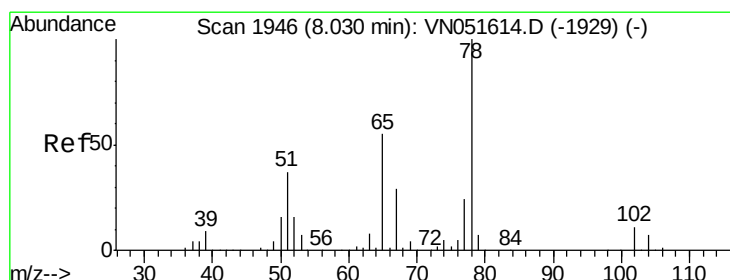
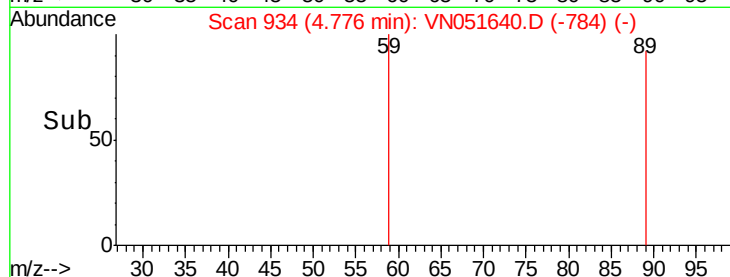


Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



Time-->



#27

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 8.03 min Scan# 1946

Delta R.T. -0.00 min

Lab File: VN051640.D

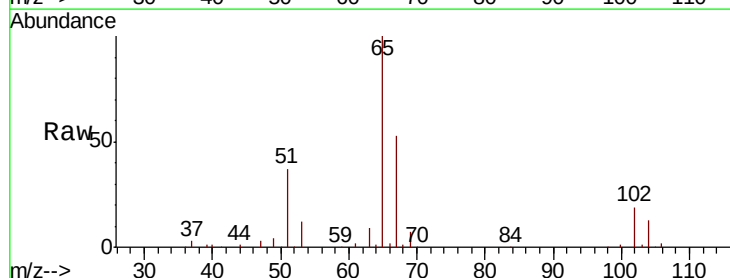
Acq: 1 Oct 2018 16:07

Tgt Ion: 65 Resp: 207357

Ion Ratio Lower Upper

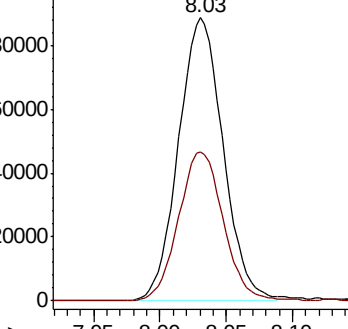
65 100

67 53.2 43.1 64.7

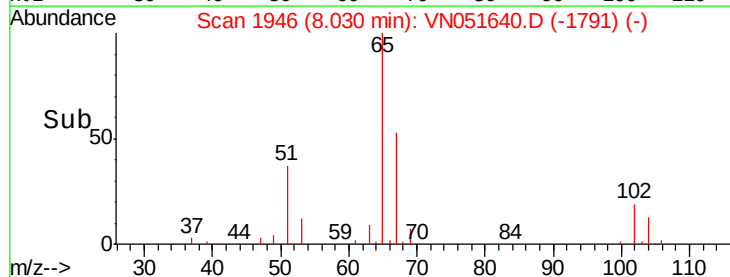


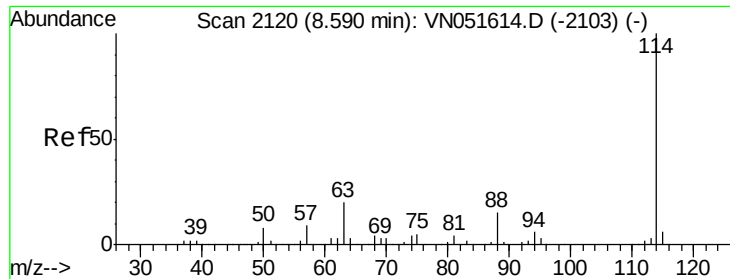
Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0



Time-->

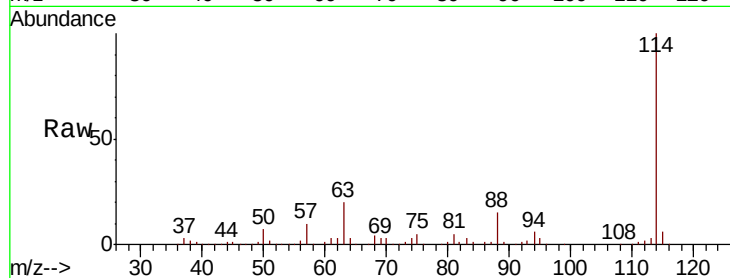




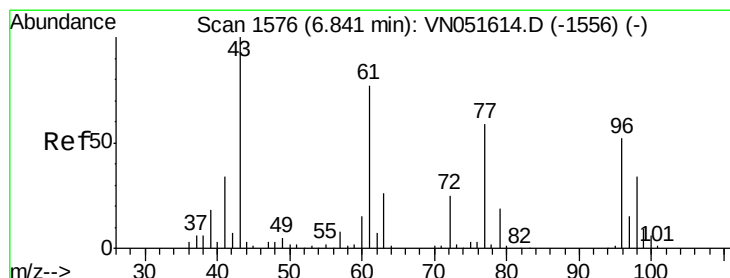
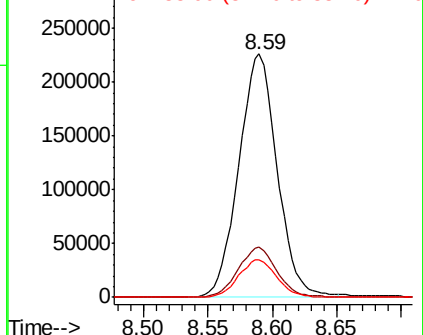
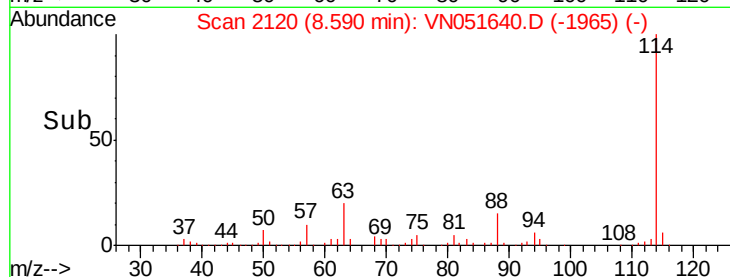
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. -0.00 min
 Lab File: VN051640.D
 Acq: 1 Oct 2018 16:07

Instrument :
 MSVOA_N
 ClientSampleId :
 002M-35TH-AVE(AUG)DL

Tot Ion:114 Resp: 468220
 Ion Ratio Lower Upper
 114 100
 63 20.9 16.4 24.6
 88 15.5 12.6 18.8

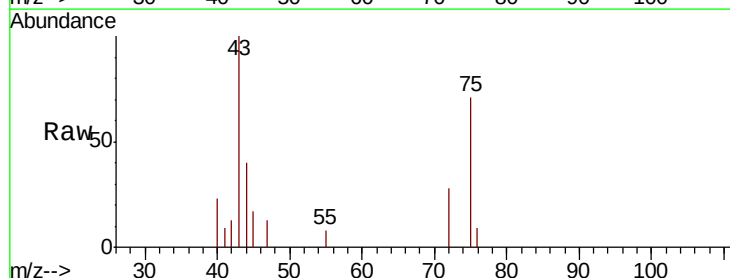


Abundance Ion 114.00 (113.70 to 114.70): VN051640.D (-1965) (-)
 Ion 63.00 (62.70 to 63.70): VN051640.D (-1965) (-)
 Ion 88.00 (87.70 to 88.70): VN051640.D (-1965) (-)

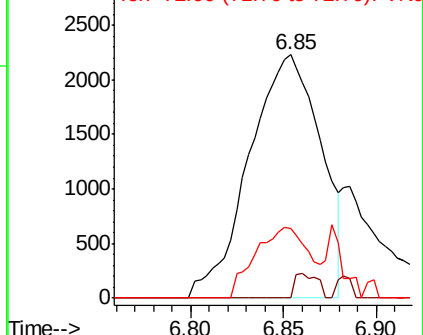
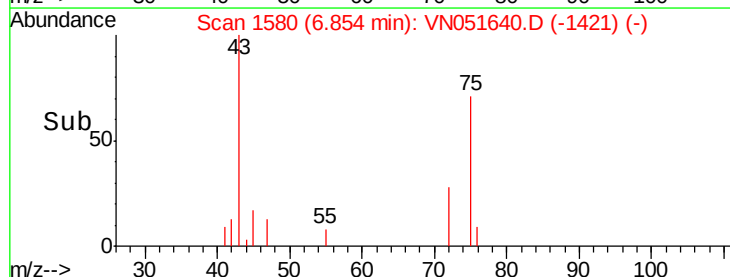


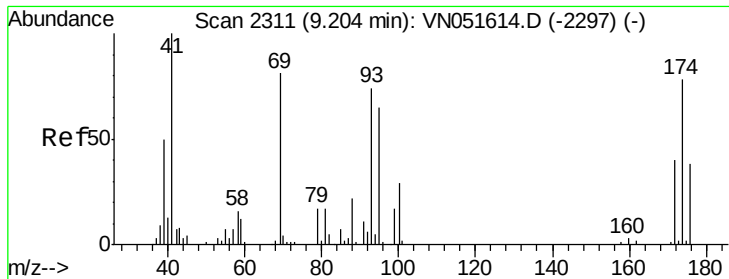
#30
 2-Butanone
 Concen: 2.752 ug/l
 RT: 6.85 min Scan# 1580
 Delta R.T. 0.01 min
 Lab File: VN051640.D
 Acq: 1 Oct 2018 16:07

Tgt Ion: 43 Resp: 5979
 Ion Ratio Lower Upper
 43 100
 57 2.0 6.6 10.0#
 72 21.8 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VN051640.D (-1421) (-)
 Ion 57.00 (56.70 to 57.70): VN051640.D (-1421) (-)
 Ion 72.00 (71.70 to 72.70): VN051640.D (-1421) (-)

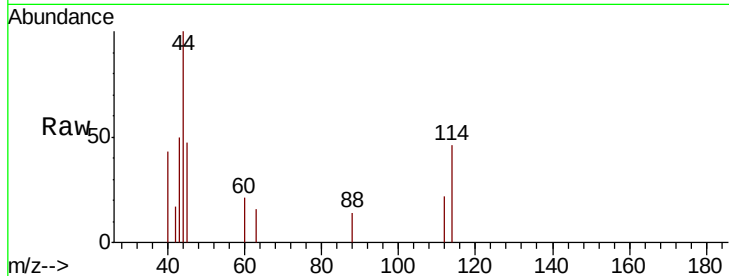




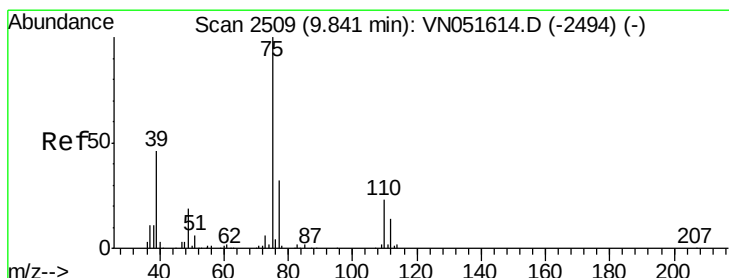
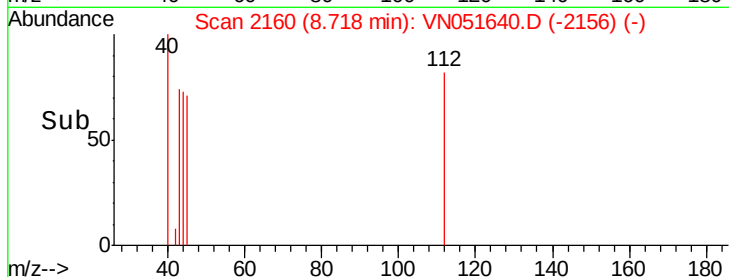
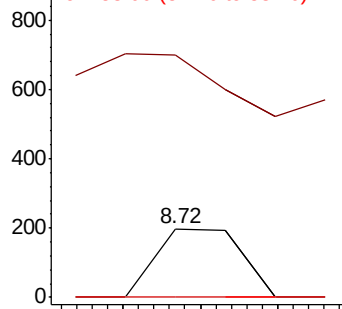
#45
 1,4-Dioxane
 Concen: 1.539 ug/l
 RT: 8.72 min Scan# 2160
 Delta R.T. -0.49 min
 Lab File: VN051640.D
 Acq: 1 Oct 2018 16:07

Instrument :
 MSVOA_N
 ClientSampleId :
 002M-35TH-AVE(AUG)DL

Tot Ion: 88 Resp: 75
 Ion Ratio Lower Upper
 88 100
 43 76.0 29.0 43.6#
 58 0.0 59.0 88.6#

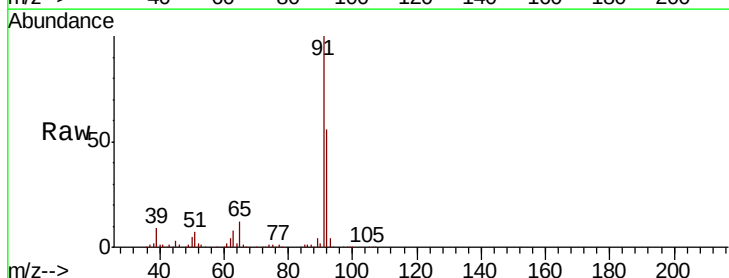


Abundance Ion 88.00 (87.70 to 88.70): VN0
 Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

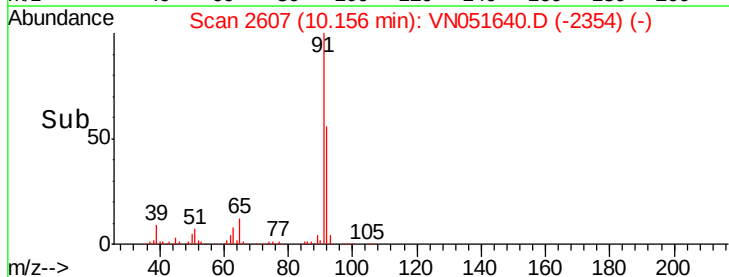
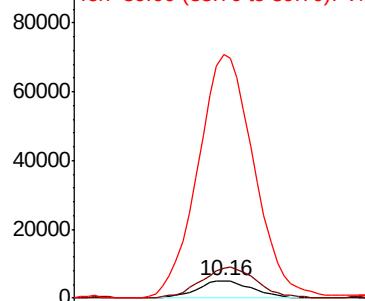


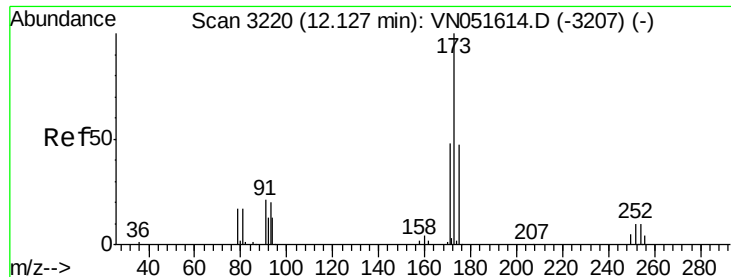
#49
 cis-1,3-Dichloropropene
 Concen: 0.998 ug/l
 RT: 10.16 min Scan# 2607
 Delta R.T. 0.32 min
 Lab File: VN051640.D
 Acq: 1 Oct 2018 16:07

Tgt Ion: 75 Resp: 9167
 Ion Ratio Lower Upper
 75 100
 77 169.8 25.4 38.0#
 39 1368.7 36.6 55.0#



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





#56

Bromoform

Concen: 0.663 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN051640.D

Acq: 1 Oct 2018 16:07

Instrument :

MSVOA_N

ClientSampleId :

002M-35TH-AVE(AUG)DL

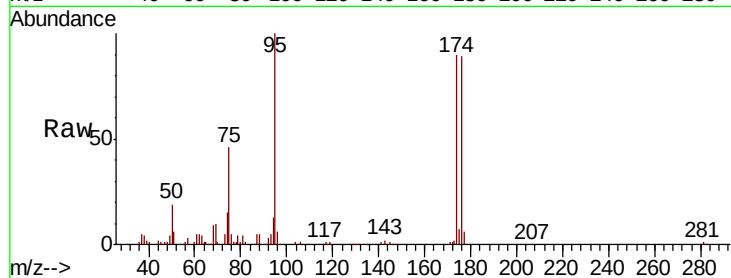
Tot Ion:173 Resp: 2552

Ion Ratio Lower Upper

173 100

175 366.7 39.0 58.4#

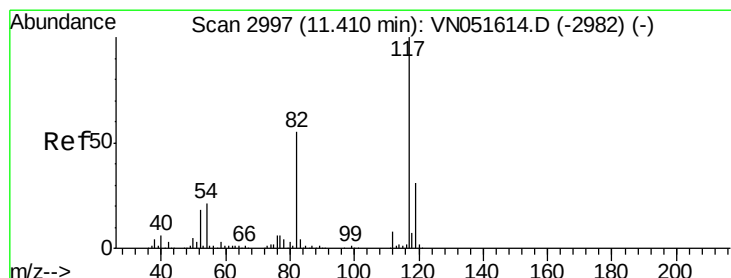
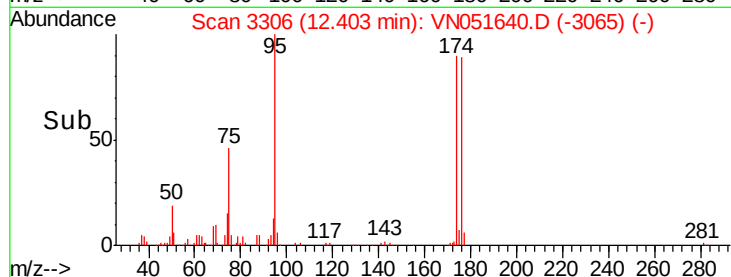
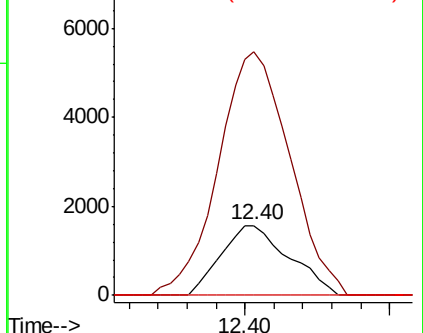
254 0.0 8.7 13.1#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. -0.00 min

Lab File: VN051640.D

Acq: 1 Oct 2018 16:07

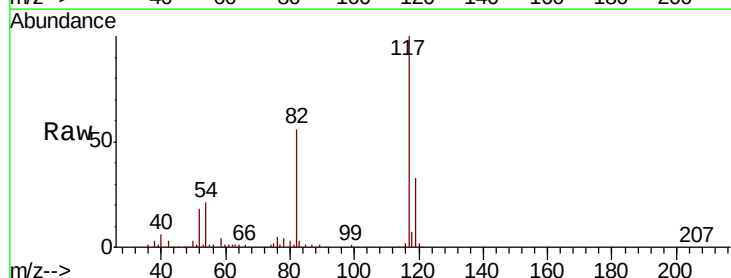
Tgt Ion:117 Resp: 414837

Ion Ratio Lower Upper

117 100

82 55.1 44.2 66.2

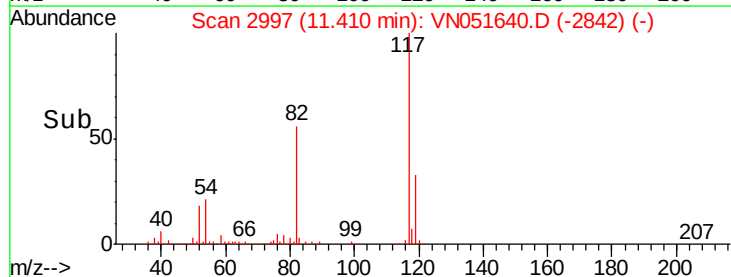
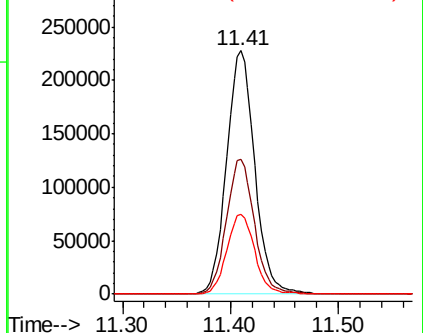
119 32.6 25.2 37.8

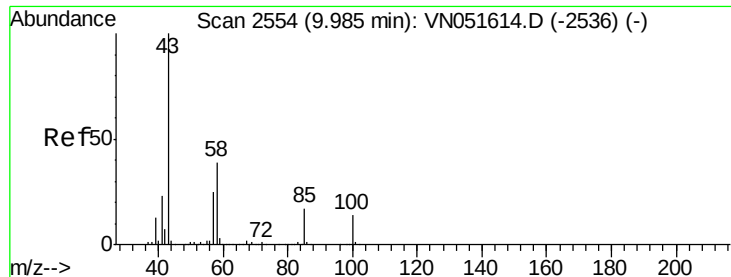


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V

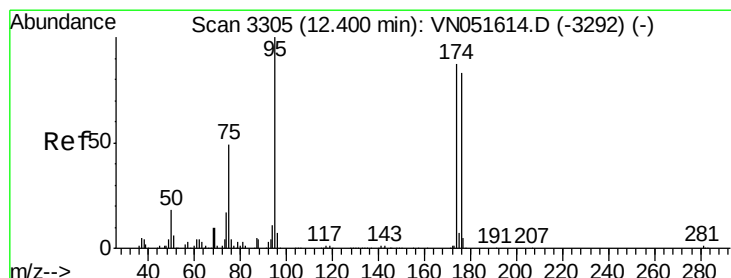
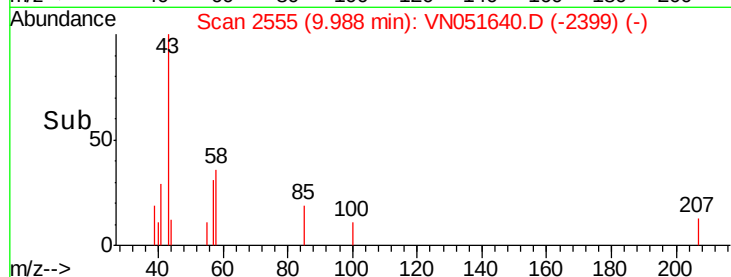
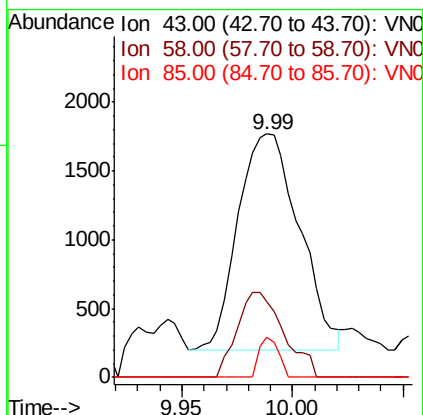
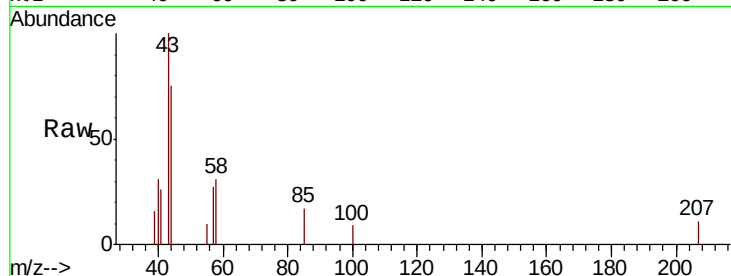




#58
 4-Methyl-2-Pentanone
 Concen: 0.639 ug/l
 RT: 9.99 min Scan# 2555
 Delta R.T. 0.00 min
 Lab File: VN051640.D
 Acq: 1 Oct 2018 16:07

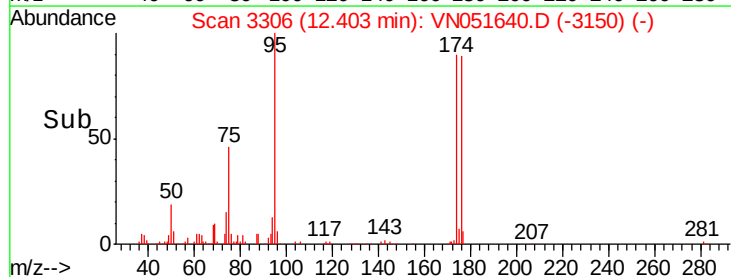
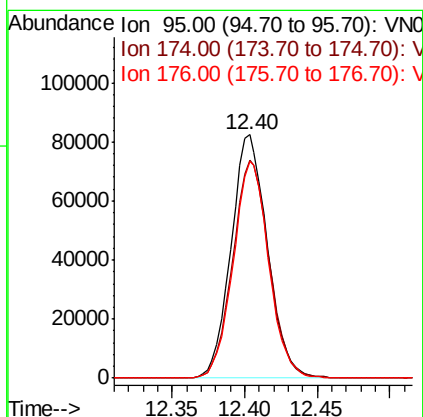
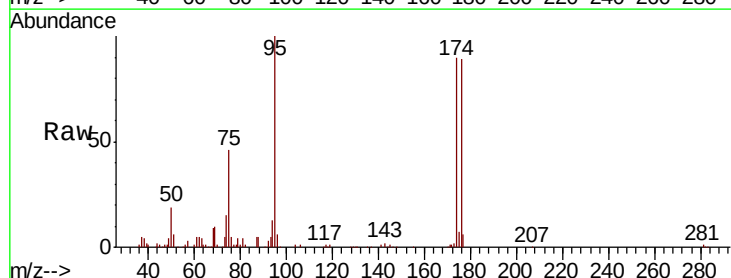
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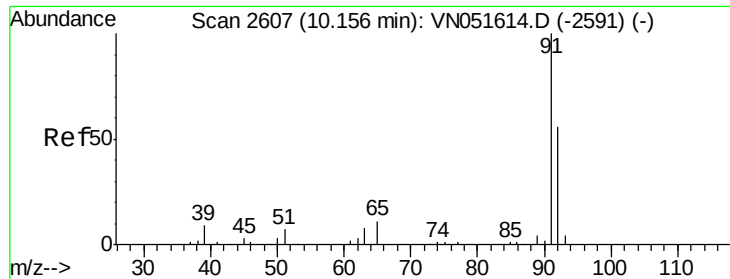
Tot Ion: 43 Resp: 3011
 Ion Ratio Lower Upper
 43 100
 58 29.2 31.0 46.4#
 85 5.9 13.4 20.2#



#60
 4-Bromofluorobenzene
 Concen: Below ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN051640.D
 Acq: 1 Oct 2018 16:07

Tgt Ion: 95 Resp: 143210
 Ion Ratio Lower Upper
 95 100
 174 90.0 71.2 106.8
 176 87.1 67.8 101.8





#62

Toluene

Concen: 56.009 ug/l

RT: 10.16 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VN051640.D

Acq: 1 Oct 2018 16:07

Instrument :

MSVOA_N

ClientSampleId :

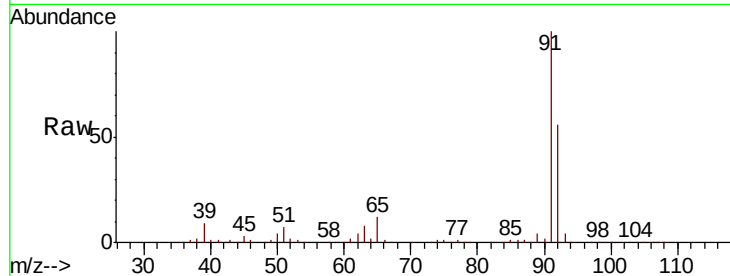
002M-35TH-AVE(AUG)DL

Tot Ion: 91 Resp: 1424688

Ion Ratio Lower Upper

91 100

92 56.6 45.3 67.9



Abundance Ion 91.00 (90.70 to 91.70): VN051614.D (-2591) (-)

Ion 92.00 (91.70 to 92.70): VN051614.D (-2591) (-)

10.16

800000

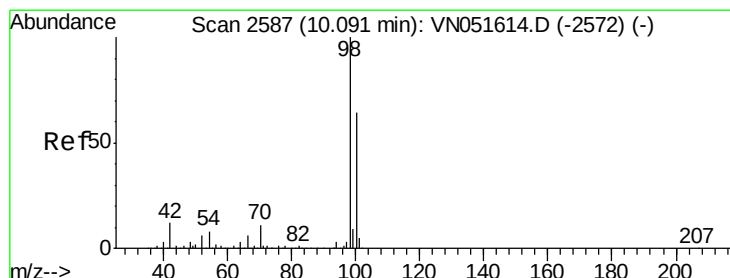
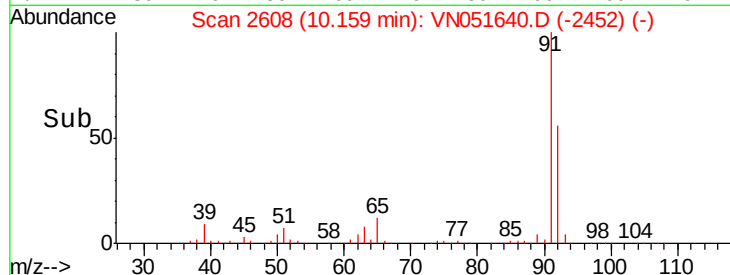
600000

400000

200000

0

Time-->



#63

Toluene-d8

Concen: 56.009 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051640.D

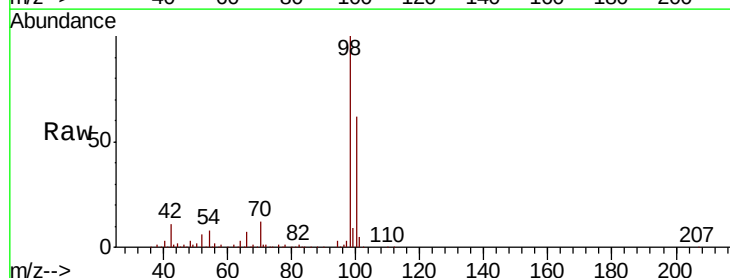
Acq: 1 Oct 2018 16:07

Tgt Ion: 98 Resp: 542157

Ion Ratio Lower Upper

98 100

100 62.4 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN051614.D (-2572) (-)

Ion 100.00 (99.70 to 100.70): VN051614.D (-2572) (-)

10.09

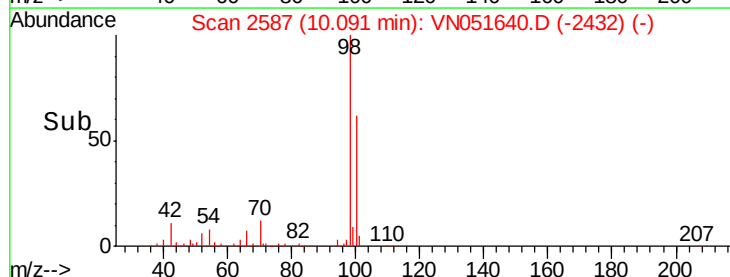
300000

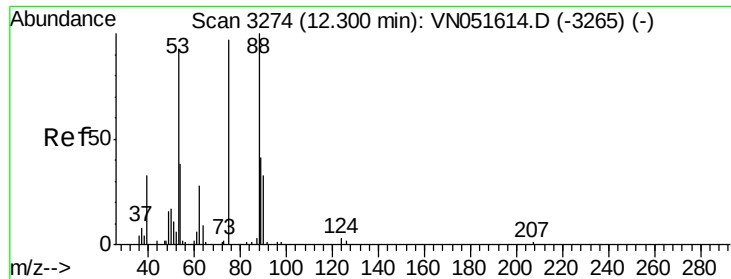
200000

100000

0

Time-->

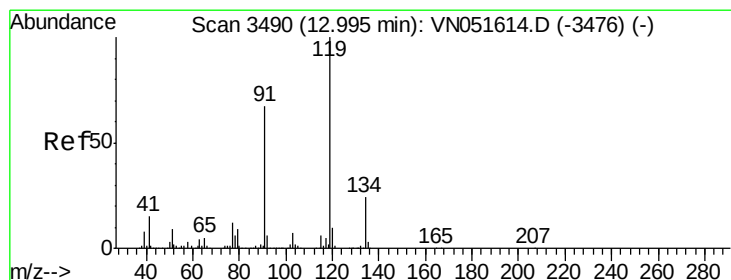
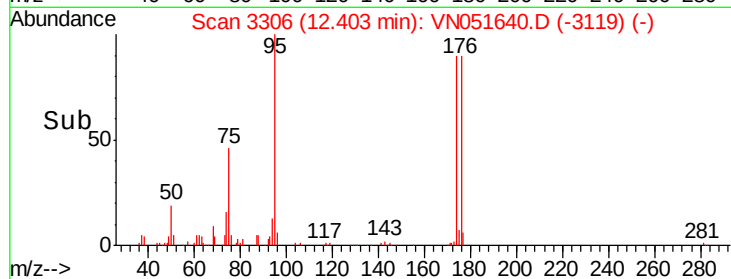
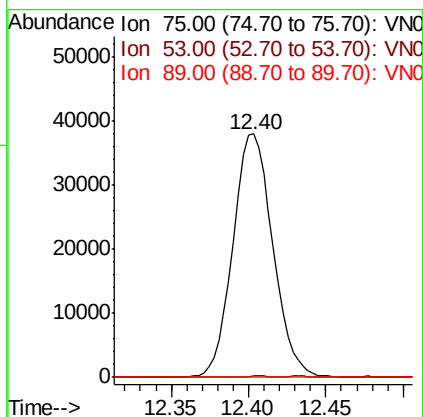
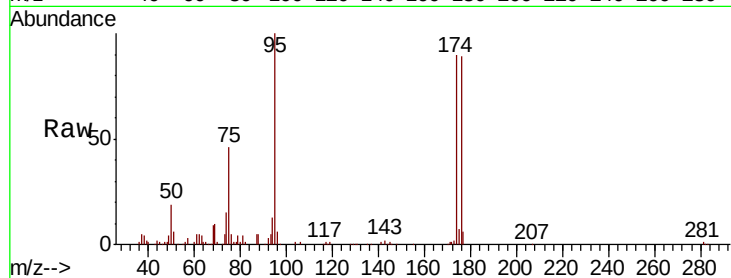




#77
t-1,4-Dichloro-2-butene
Concen: 40.652 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN051640.D
Acq: 1 Oct 2018 16:07

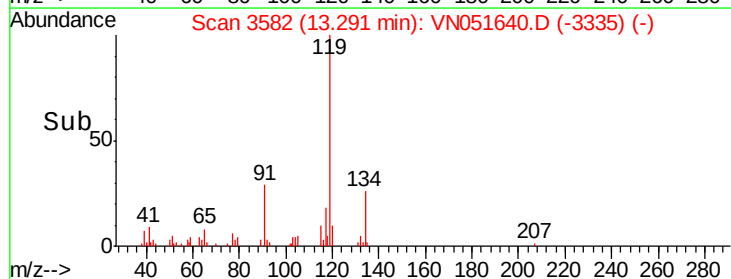
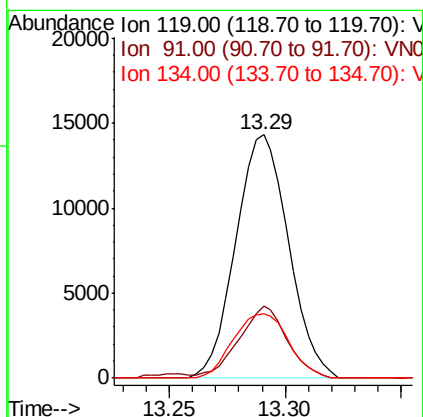
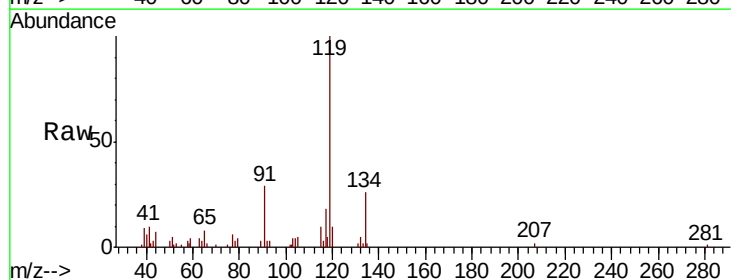
Instrument :
MSVOA_N
ClientSampleId :
002M-35TH-AVE(AUG)DL

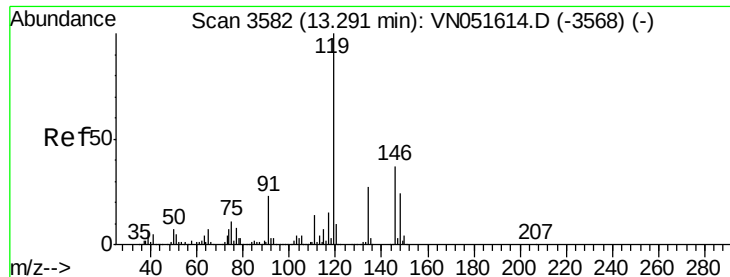
Tot Ion: 75 Resp: 68041
Ion Ratio Lower Upper
75 100
53 0.5 48.1 144.4#
89 0.0 22.4 67.3#



#79
tert-butylbenzene
Concen: 1.221 ug/l
RT: 13.29 min Scan# 3582
Delta R.T. 0.30 min
Lab File: VN051640.D
Acq: 1 Oct 2018 16:07

Tgt Ion: 119 Resp: 22588
Ion Ratio Lower Upper
119 100
91 27.1 0.0 132.4
134 27.8 0.0 48.4





#82

p-Isopropyltoluene

Concen: 1.034 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. -0.00 min

Lab File: VN051640.D

Acq: 1 Oct 2018 16:07

Instrument :

MSVOA_N

ClientSampleId :

002M-35TH-AVE(AUG)DL

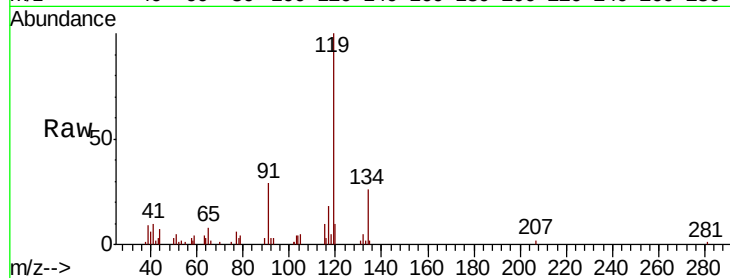
Tot Ion:119 Resp: 22588

Ion Ratio Lower Upper

119 100

134 27.8 0.0 52.0

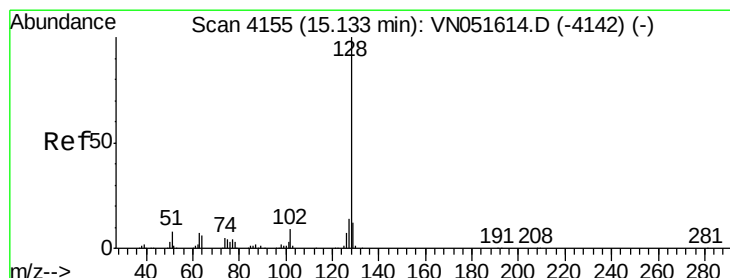
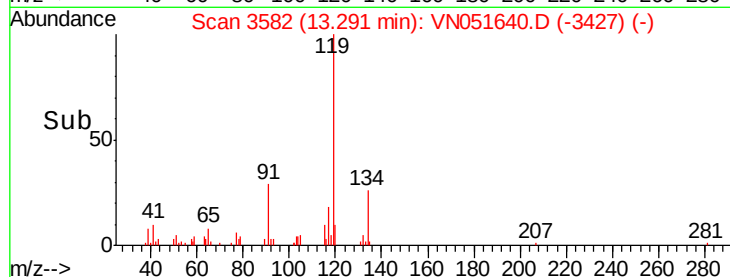
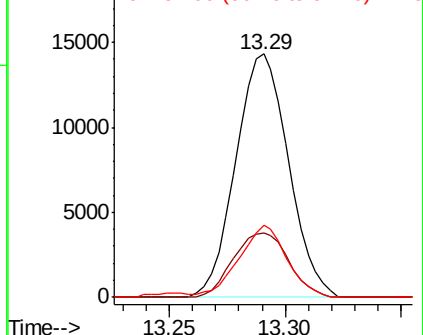
91 27.1 0.0 46.0



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#91

Naphthalene

Concen: 8.282 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN051640.D

Acq: 1 Oct 2018 16:07

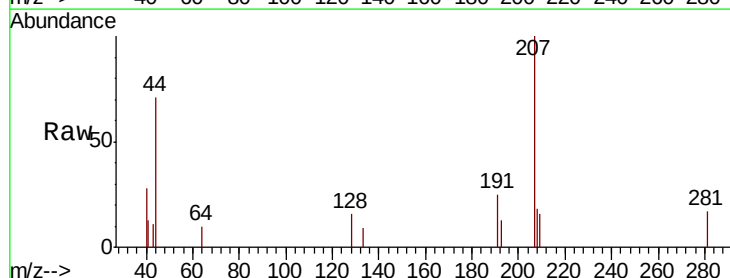
Tgt Ion:128 Resp: 133

Ion Ratio Lower Upper

128 100

127 0.0 10.8 16.2#

129 0.0 9.1 13.7#



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

