

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100118\
 Data File : VN051643.D
 Acq On : 1 Oct 2018 17:20
 Operator : MD\SY
 Sample : J5167-02DL 5X
 Misc : Sample
 ALS Vial : 19 Sample Multiplier: 28

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

Quant Time: Oct 02 01:03:13 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	95769	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	461938	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	409909	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.03	65	209907	31.48	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.93%
60) 4-Bromofluorobenzene	12.40	95	137764	21.86	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	72.87%
63) Toluene-d8	10.09	98	541892	28.02	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	93.40%

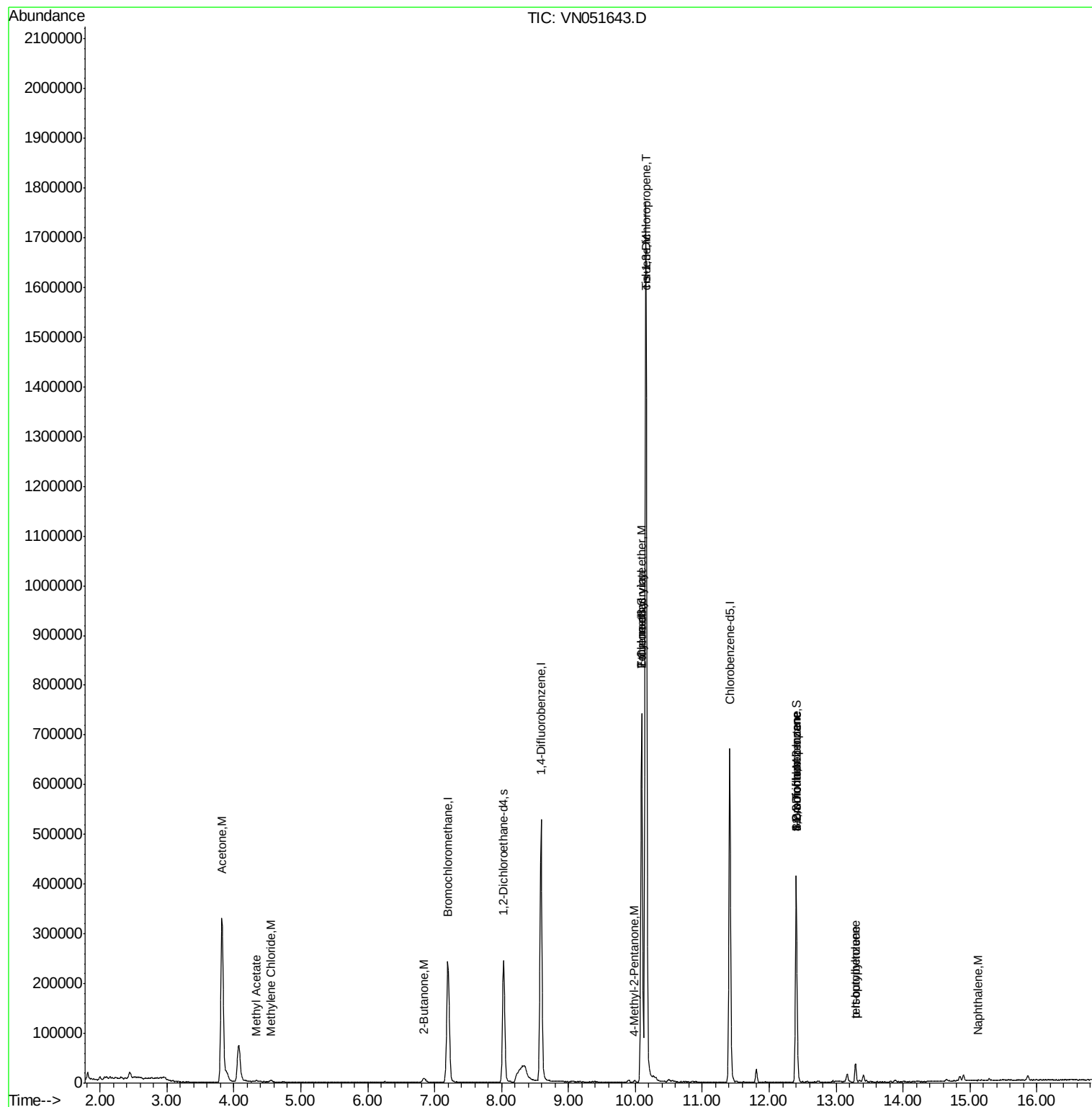
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
12) Methyl Acetate	4.34	43	2951	0.578	ug/l	100
15) Acetone	3.82	58	185393	345.955	ug/l	94
18) Methylene Chloride	4.56	84	1711	0.257	ug/l #	61
30) 2-Butanone	6.84	43	3012	1.405	ug/l	94
49) cis-1,3-Dichloropropene	10.16	75	9003	0.994	ug/l #	1
51) Ethyl methacrylate	10.10	69	2118	0.347	ug/l	88
55) 2-Chloroethyl vinyl ether	10.09	63	643	0.213	ug/l #	1
56) Bromoform	12.40	173	1164	0.306	ug/l #	1
58) 4-Methyl-2-Pentanone	9.99	43	2602	0.559	ug/l #	76
62) Toluene	10.16	91	1393173	55.429	ug/l	99
72) 1,2,3-Trichloropropane	12.40	75	68522	13.122	ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	68522	41.432	ug/l #	11
79) tert-butylbenzene	13.29	119	19449	1.064	ug/l	60
82) p-Isopropyltoluene	13.29	119	19449	0.901	ug/l	99
91) Naphthalene	15.13	128	140	8.282	ug/l #	68

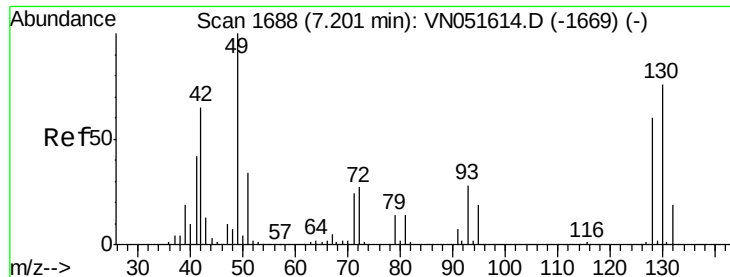
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. -0.00 min

Lab File: VN051643.D

Acq: 1 Oct 2018 17:20

Instrument :

MSVOA_N

ClientSampleId :

002M-35TH-AVE(SEP)DL

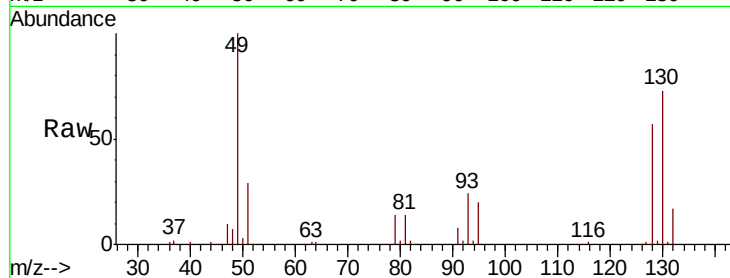
Tot Ion:128 Resp: 95769

Ion Ratio Lower Upper

128 100

49 172.7 0.0 426.8

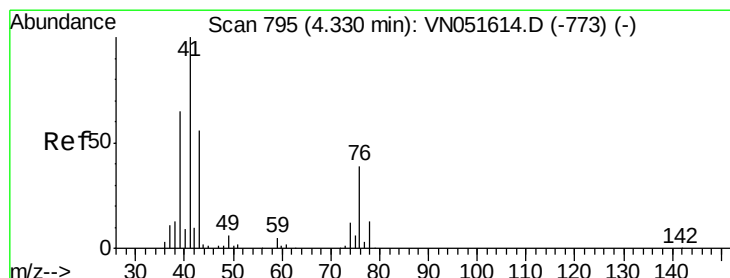
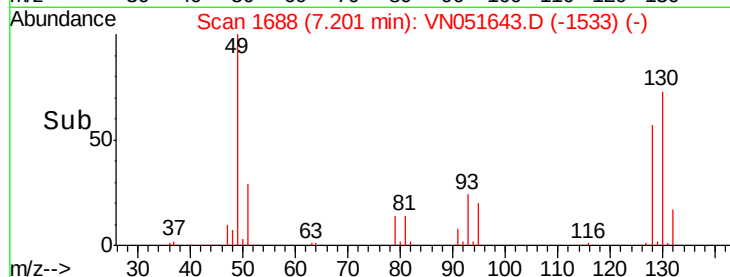
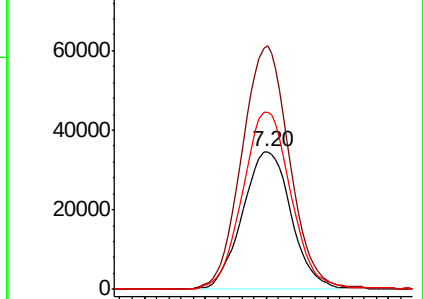
130 127.7 0.0 326.3



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



#12

Methyl Acetate

Concen: 0.578 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN051643.D

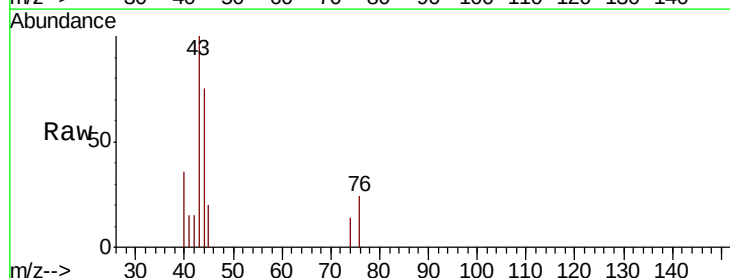
Acq: 1 Oct 2018 17:20

Tgt Ion: 43 Resp: 2951

Ion Ratio Lower Upper

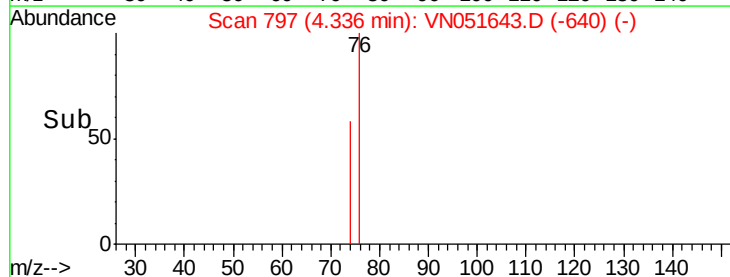
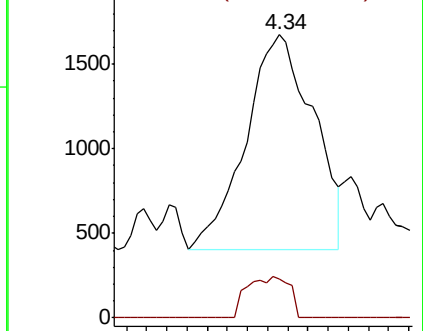
43 100

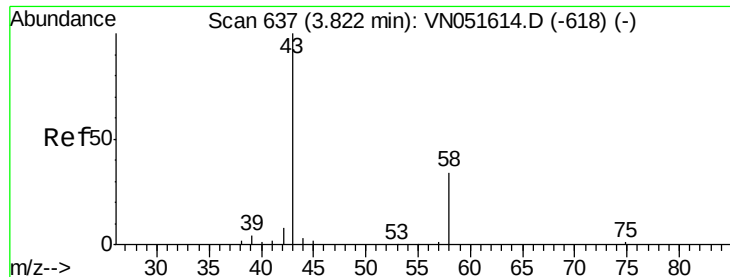
74 21.4 17.0 25.4



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 74.00 (73.70 to 74.70): VN





#15

Acetone

Concen: 345.955 ug/l

RT: 3.82 min Scan# 637

Delta R.T. -0.00 min

Lab File: VN051643.D

Acq: 1 Oct 2018 17:20

Instrument :

MSVOA_N

ClientSampleId :

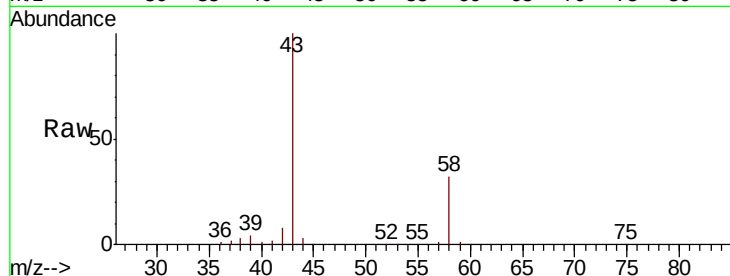
002M-35TH-AVE(SEP)DL

Tot Ion: 58 Resp: 185393

Ion Ratio Lower Upper

58 100

43 309.6 238.0 357.0



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

250000

200000

150000

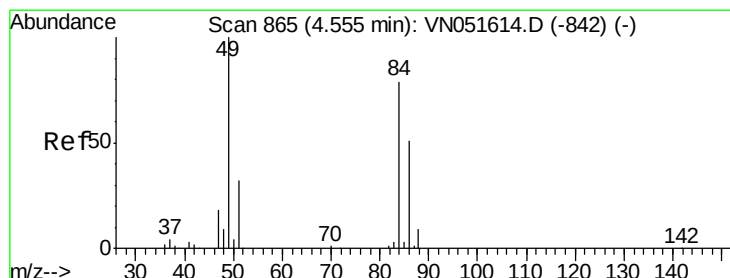
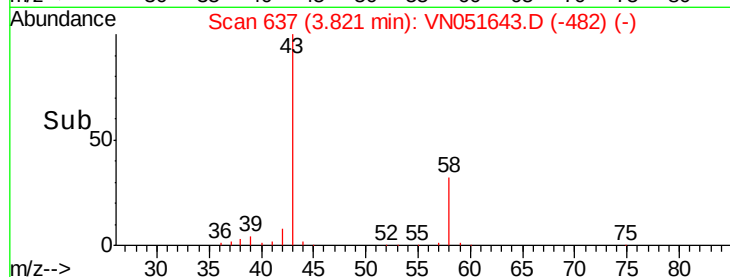
100000

50000

0

3.70 3.80 3.90

Time-->



#18

Methylene Chloride

Concen: 0.257 ug/l

RT: 4.56 min Scan# 867

Delta R.T. 0.01 min

Lab File: VN051643.D

Acq: 1 Oct 2018 17:20

Tgt Ion: 84 Resp: 1711

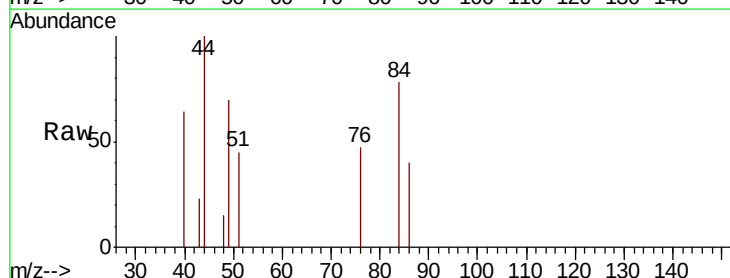
Ion Ratio Lower Upper

84 100

49 63.7 100.9 151.3#

51 57.6 32.5 48.7#

86 51.0 51.3 76.9#



Abundance Ion 84.00 (83.70 to 84.70): VN0

Ion 49.00 (48.70 to 49.70): VN0

Ion 51.00 (50.70 to 51.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

1500

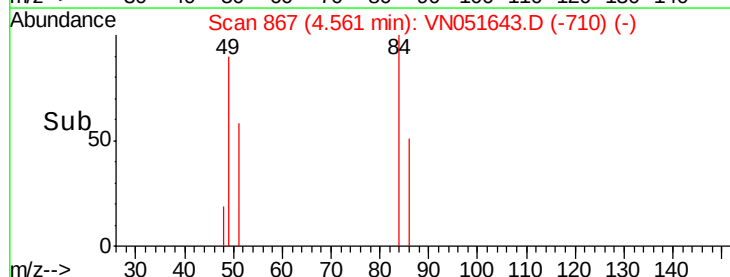
1000

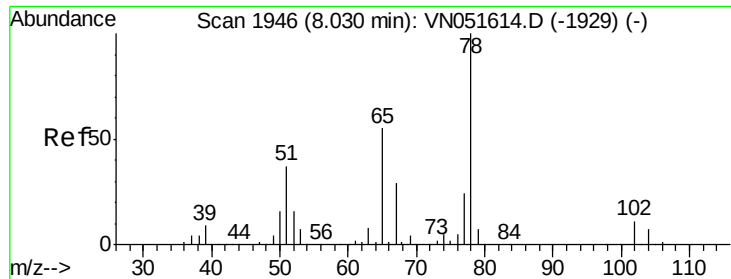
500

0

4.55 4.56 4.60

Time-->

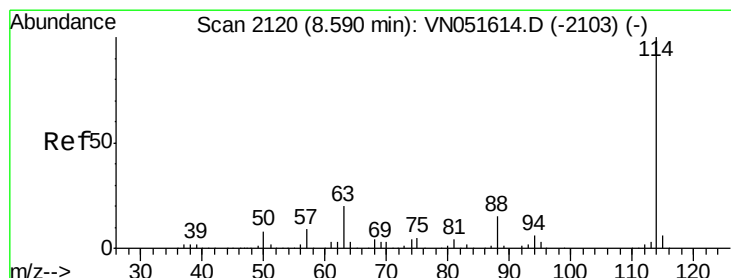
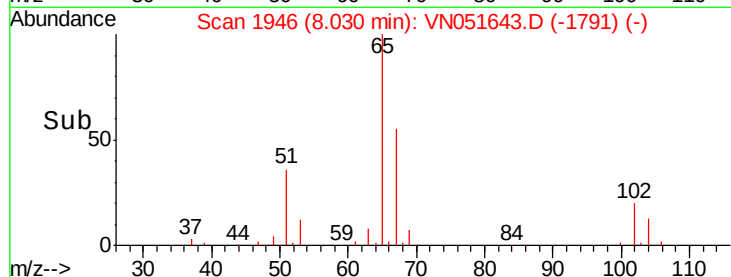
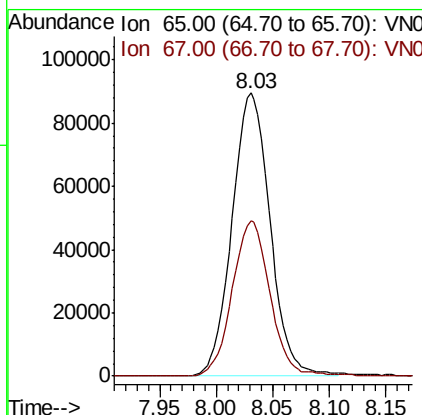
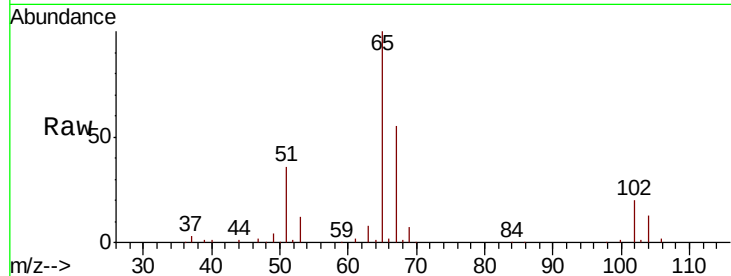




#27
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. -0.00 min
 Lab File: VN051643.D
 Acq: 1 Oct 2018 17:20

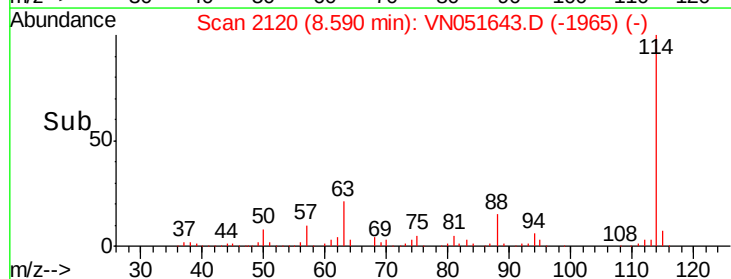
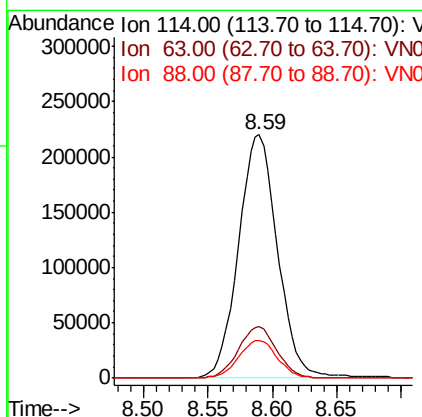
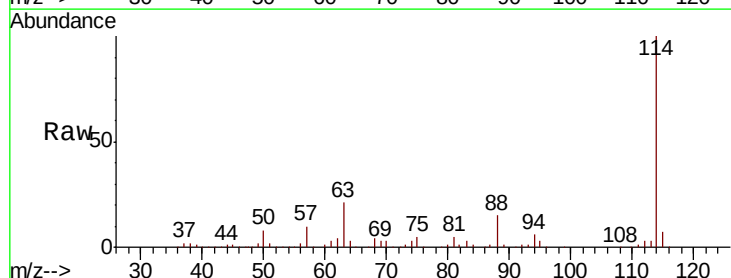
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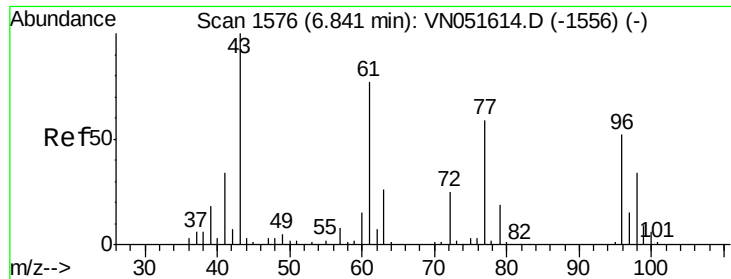
Tot Ion: 65 Resp: 209907
 Ion Ratio Lower Upper
 65 100
 67 53.7 43.1 64.7



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. -0.00 min
 Lab File: VN051643.D
 Acq: 1 Oct 2018 17:20

Tgt Ion: 114 Resp: 461938
 Ion Ratio Lower Upper
 114 100
 63 21.1 16.4 24.6
 88 15.6 12.6 18.8

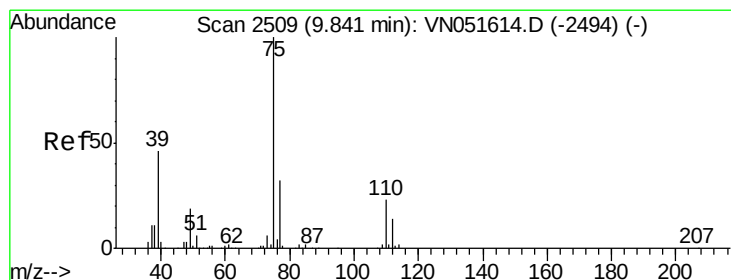
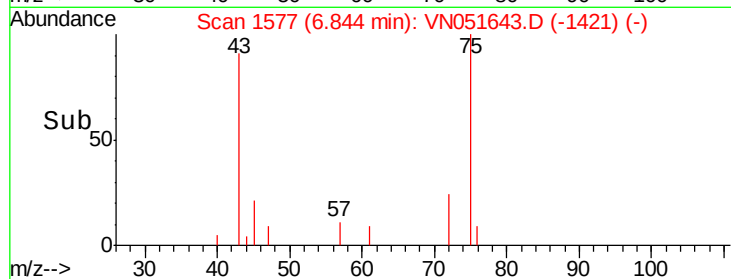
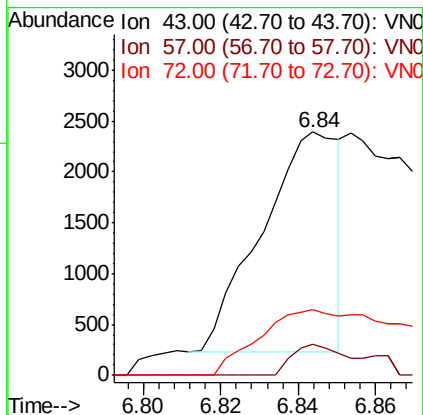
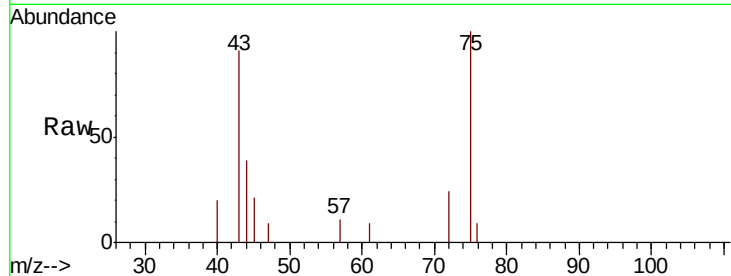




#30
2-Butanone
Concen: 1.405 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.00 min
Lab File: VN051643.D
Acq: 1 Oct 2018 17:20

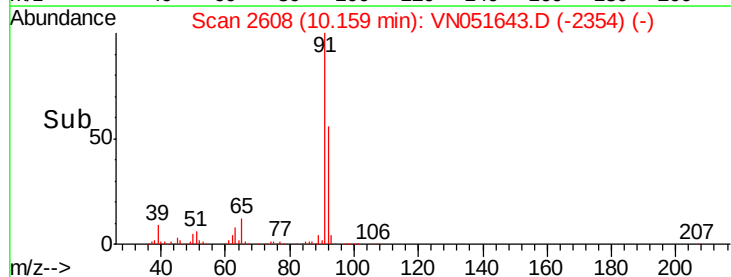
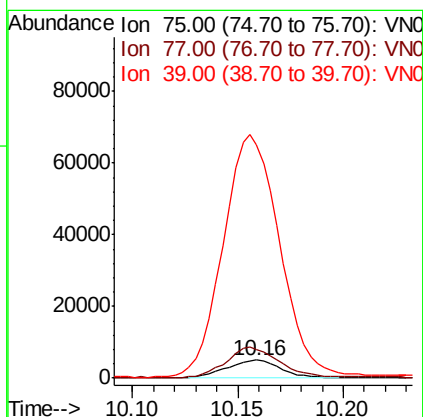
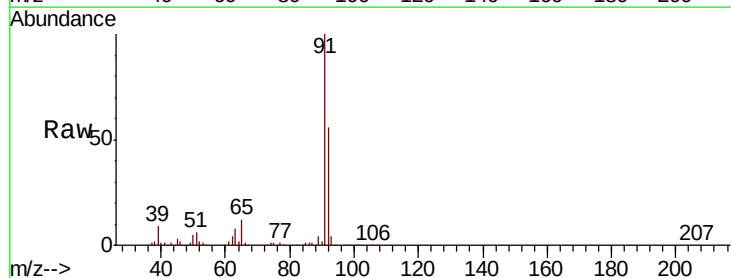
Instrument :
MSVOA_N
ClientSampleId :
002M-35TH-AVE(SEP)DL

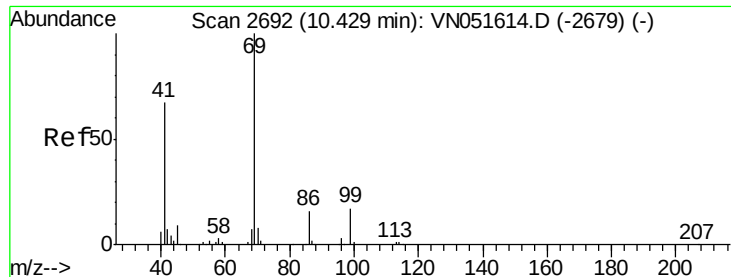
Tot Ion: 43 Resp: 3012
Ion Ratio Lower Upper
43 100
57 8.9 6.6 10.0
72 29.9 20.8 31.2



#49
cis-1,3-Dichloropropene
Concen: 0.994 ug/l
RT: 10.16 min Scan# 2608
Delta R.T. 0.32 min
Lab File: VN051643.D
Acq: 1 Oct 2018 17:20

Tgt Ion: 75 Resp: 9003
Ion Ratio Lower Upper
75 100
77 151.4 25.4 38.0#
39 1244.7 36.6 55.0#





#51

Ethyl methacrylate

Concen: 0.347 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.33 min

Lab File: VN051643.D

Acq: 1 Oct 2018 17:20

Instrument :

MSVOA_N

ClientSampleId :

002M-35TH-AVE(SEP)DL

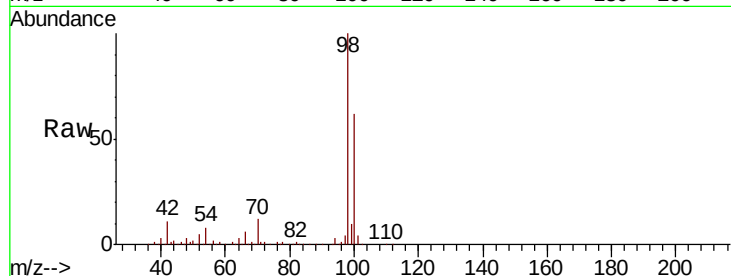
Tot Ion: 69 Resp: 2118

Ion Ratio Lower Upper

69 100

41 56.1 33.3 99.8

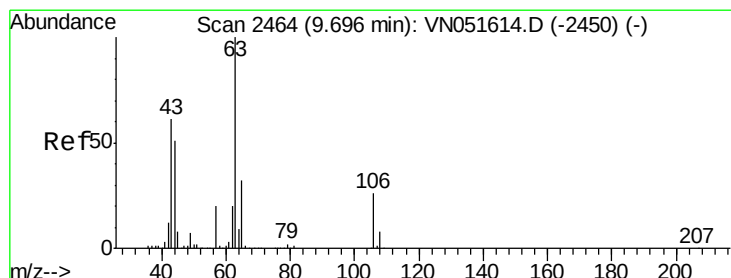
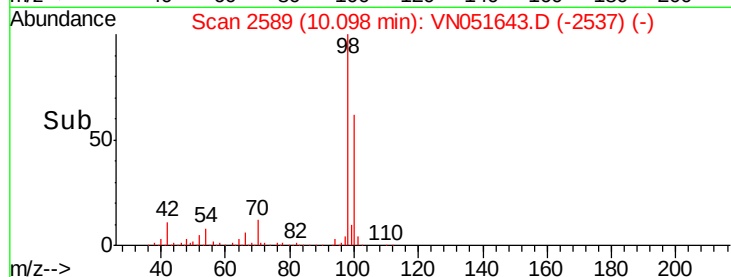
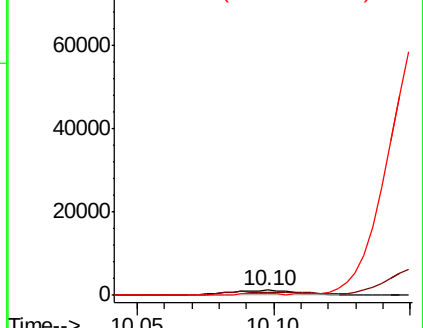
39 28.7 17.2 51.6



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



#55

2-Chloroethyl vinyl ether

Concen: 0.213 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.40 min

Lab File: VN051643.D

Acq: 1 Oct 2018 17:20

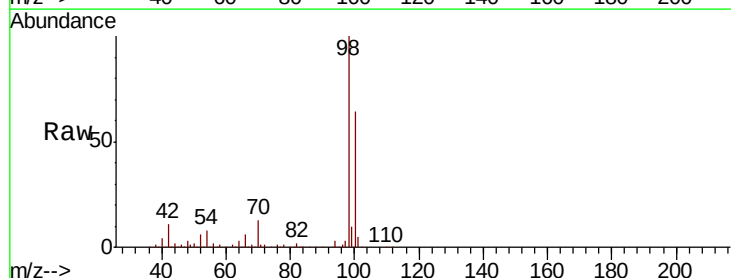
Tgt Ion: 63 Resp: 643

Ion Ratio Lower Upper

63 100

65 168.9 25.8 38.6#

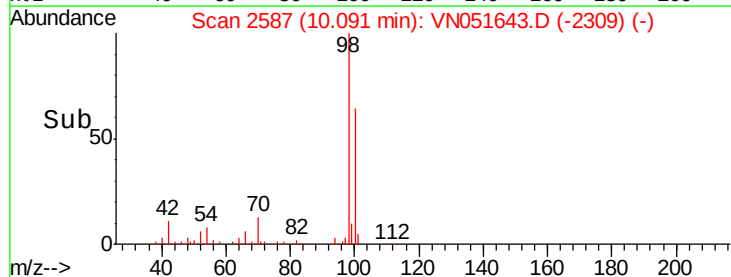
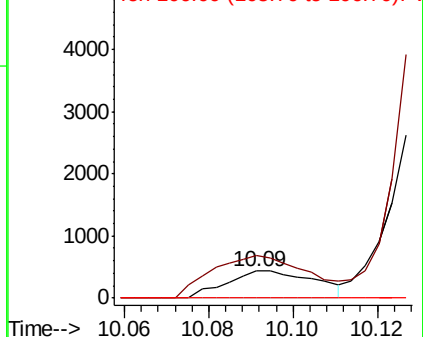
106 0.0 20.4 30.6#

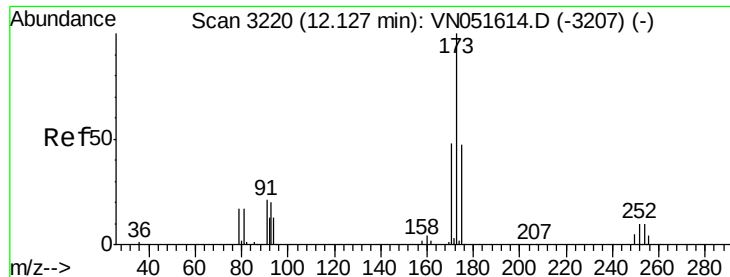


Abundance Ion 63.00 (62.70 to 63.70): VN0

Ion 65.00 (64.70 to 65.70): VN0

Ion 106.00 (105.70 to 106.70): V





#56

Bromoform

Concen: 0.306 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN051643.D

Acq: 1 Oct 2018 17:20

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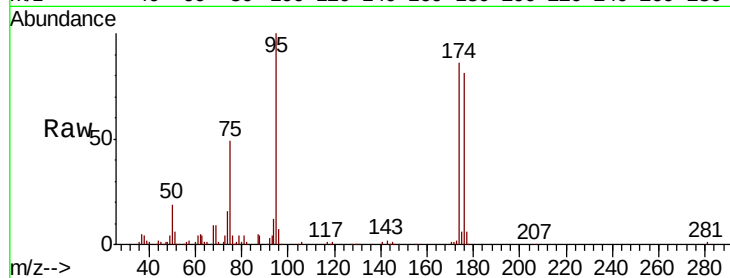
Tot Ion:173 Resp: 1164

Ion Ratio Lower Upper

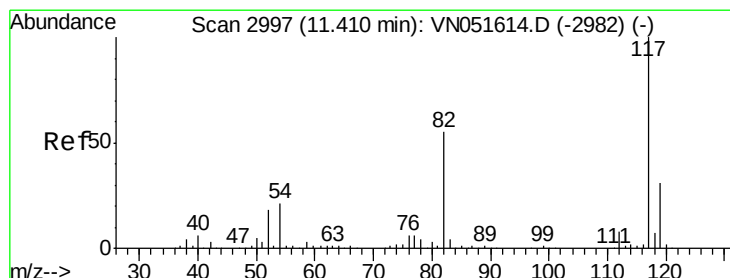
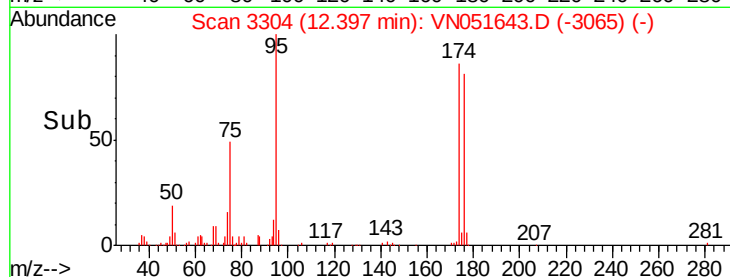
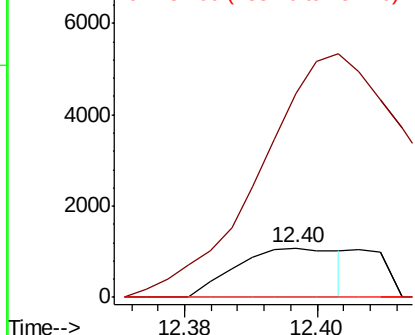
173 100

175 781.6 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: VN051643.D

Acq: 1 Oct 2018 17:20

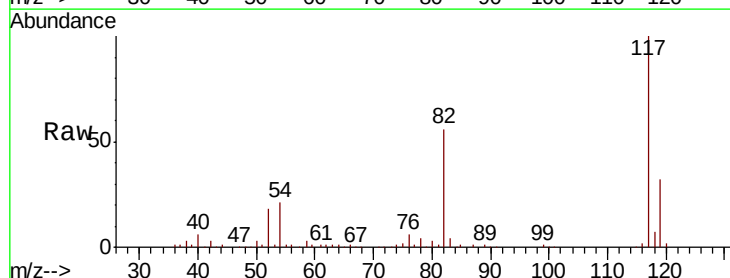
Tgt Ion:117 Resp: 409909

Ion Ratio Lower Upper

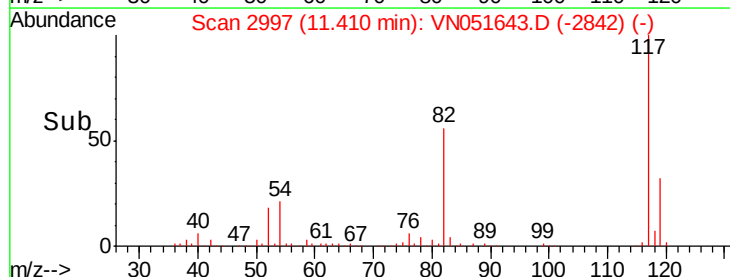
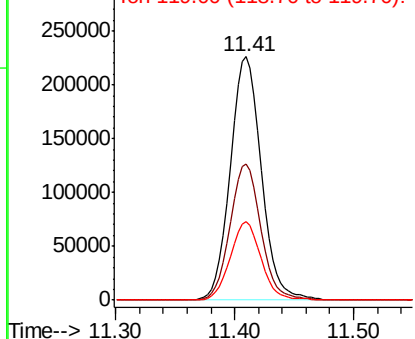
117 100

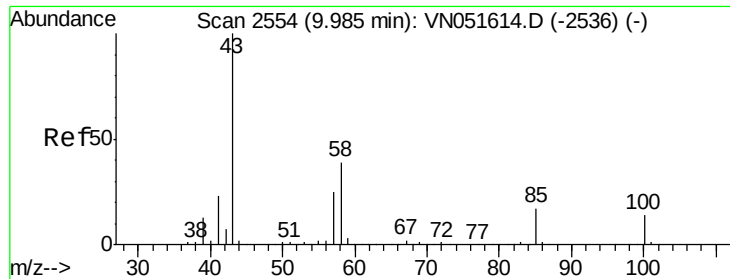
82 55.4 44.2 66.2

119 32.0 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: 0.559 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN051643.D

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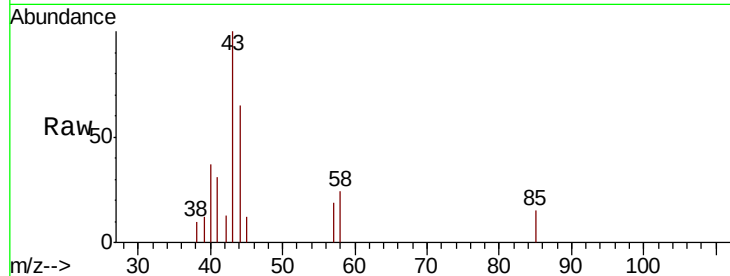
Tot Ion: 43 Resp: 2602

Ion Ratio Lower Upper

43 100

58 21.4 31.0 46.4#

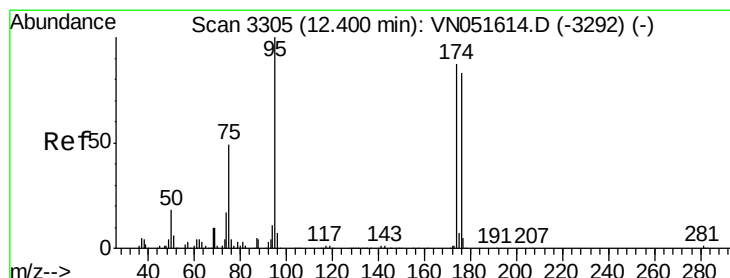
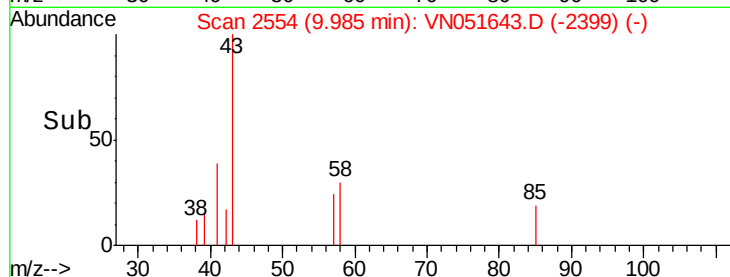
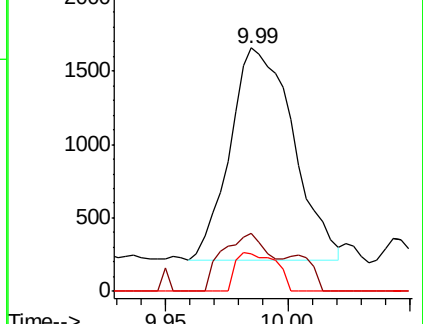
85 11.5 13.4 20.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

Ion 85.00 (84.70 to 85.70): VN0



#60

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051643.D

Acq: 1 Oct 2018 17:20

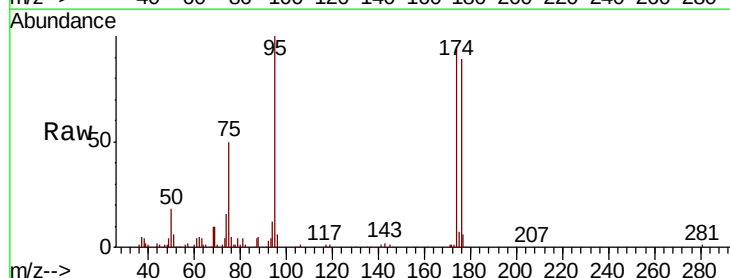
Tgt Ion: 95 Resp: 137764

Ion Ratio Lower Upper

95 100

174 93.2 71.2 106.8

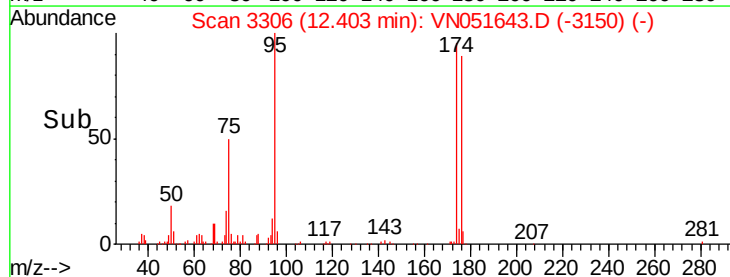
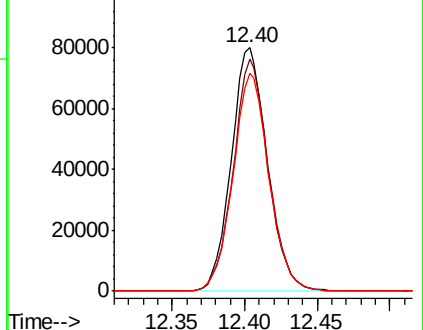
176 89.1 67.8 101.8

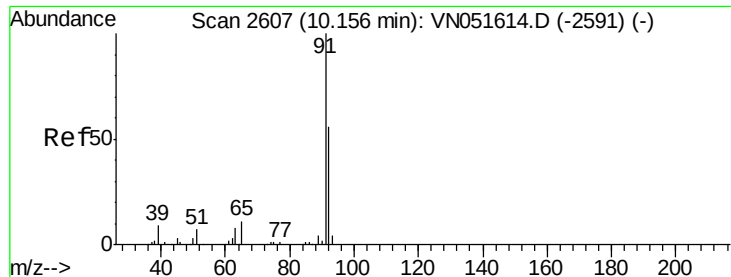


Abundance Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





#62

Toluene

Concen: 55.429 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN051643.D

Acq: 1 Oct 2018 17:20

Instrument :

MSVOA_N

ClientSampleId :

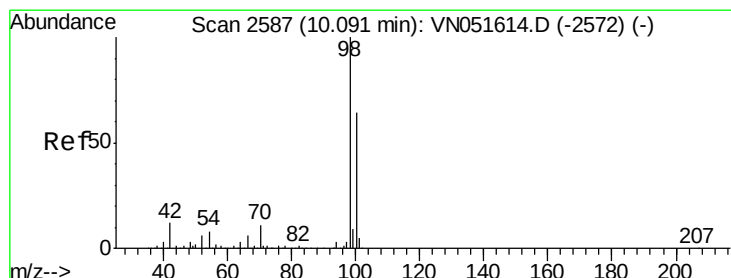
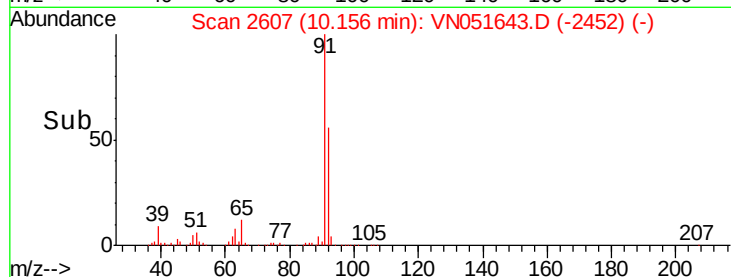
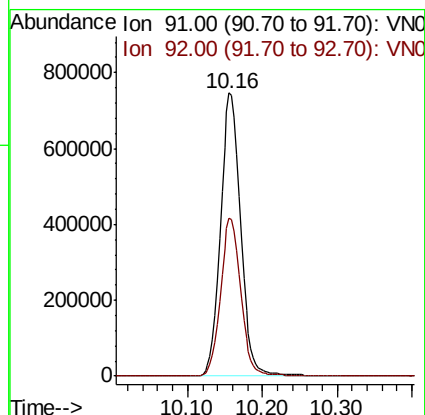
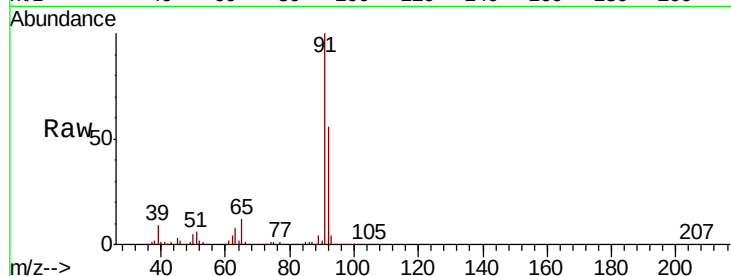
002M-35TH-AVE(SEP)DL

Tot Ion: 91 Resp: 1393173

Ion Ratio Lower Upper

91 100

92 55.8 45.3 67.9



#63

Toluene-d8

Concen: 55.429 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051643.D

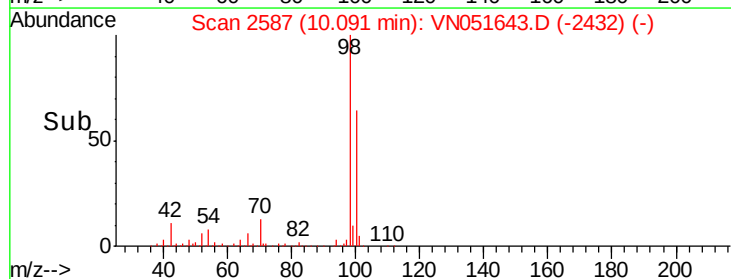
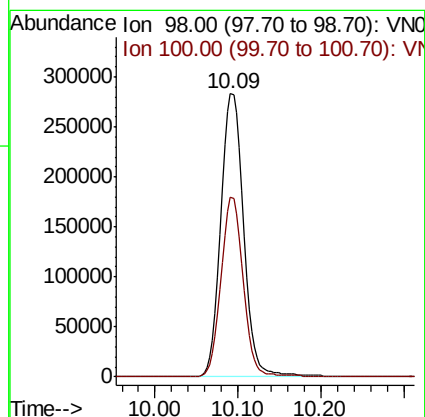
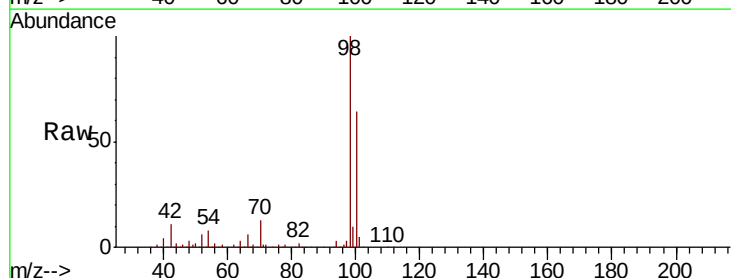
Acq: 1 Oct 2018 17:20

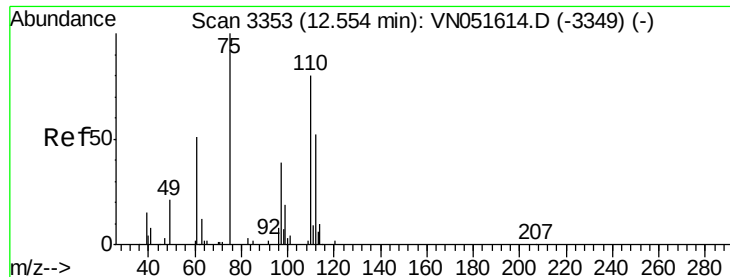
Tgt Ion: 98 Resp: 541892

Ion Ratio Lower Upper

98 100

100 61.0 51.4 77.0





#72

1,2,3-Trichloropropane

Concen: 13.122 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051643.D

Acq: 1 Oct 2018 17:20

Instrument :

MSVOA_N

ClientSampleId :

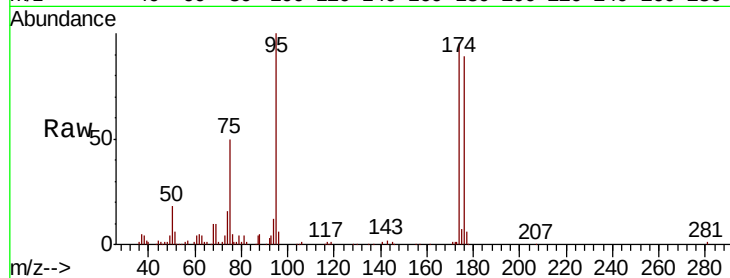
002M-35TH-AVE(SEP)DL

Tot Ion: 75 Resp: 68522

Ion Ratio Lower Upper

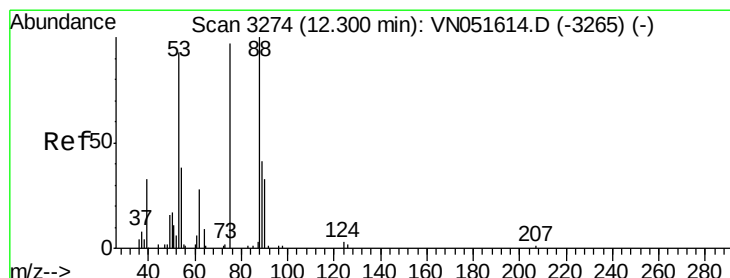
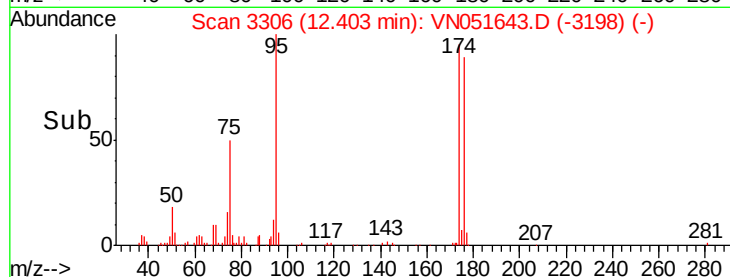
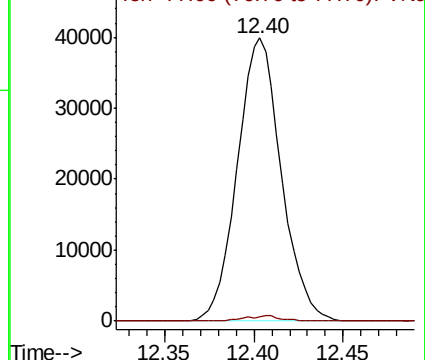
75 100

77 0.9 0.0 492.2



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



#77

t-1,4-Dichloro-2-butene

Concen: 41.432 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051643.D

Acq: 1 Oct 2018 17:20

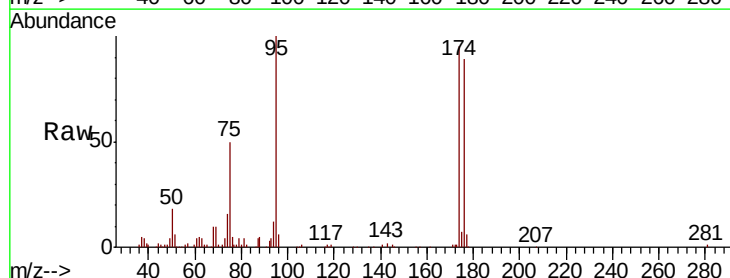
Tgt Ion: 75 Resp: 68522

Ion Ratio Lower Upper

75 100

53 0.5 48.1 144.4#

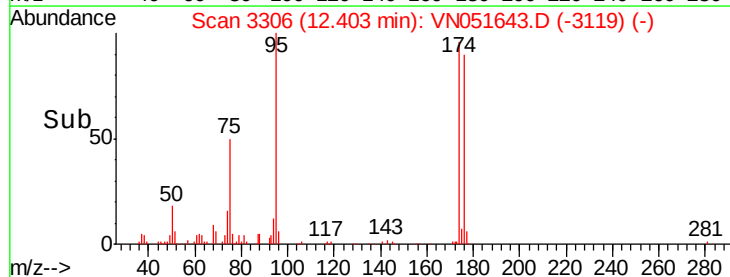
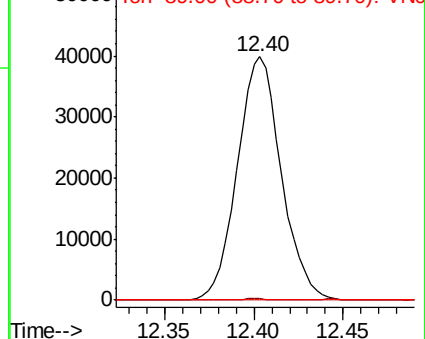
89 0.0 22.4 67.3#

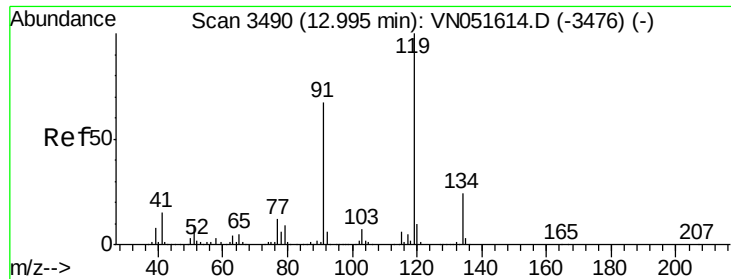


Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0

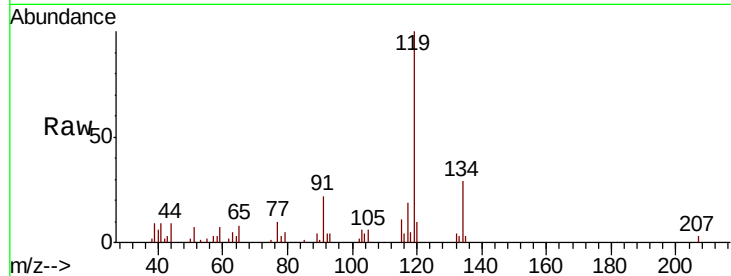




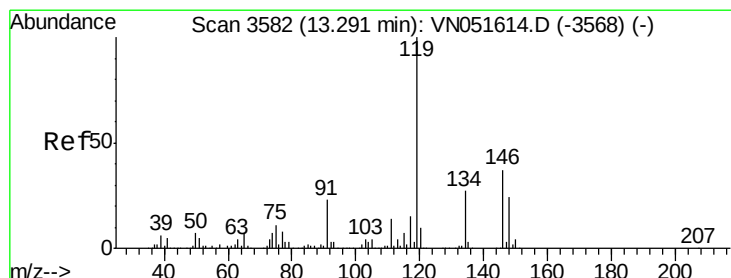
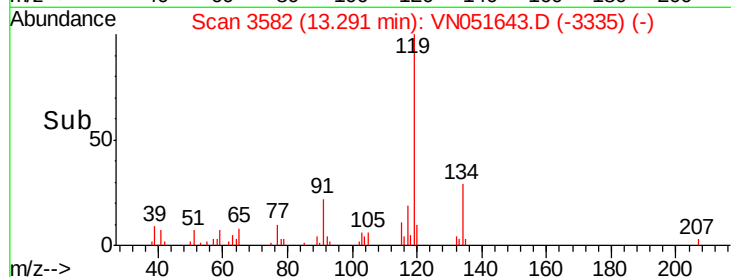
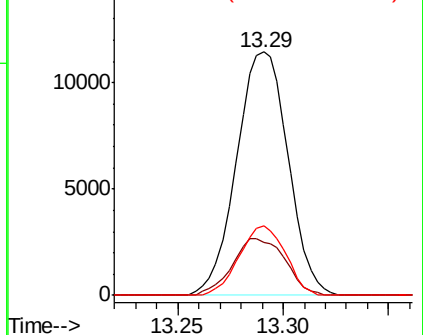
#79
tert-butylbenzene
Concen: 1.064 ug/l
RT: 13.29 min Scan# 3582
Delta R.T. 0.30 min
Lab File: VN051643.D
Acq: 1 Oct 2018 17:20

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

Tot Ion	Ratio	Lower	Upper
119	100		
91	23.9	0.0	132.4
134	25.6	0.0	48.4

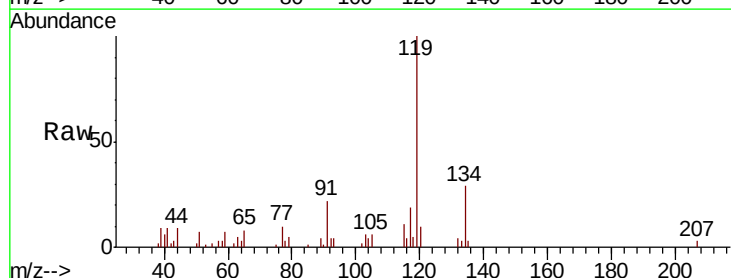


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

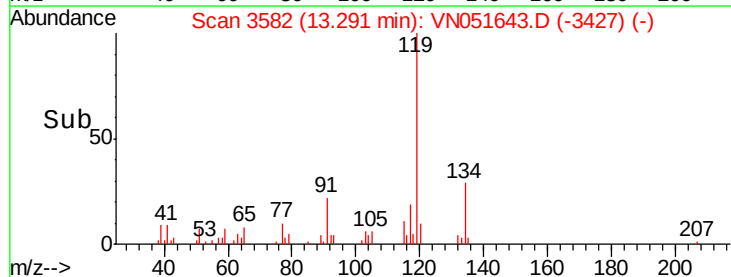
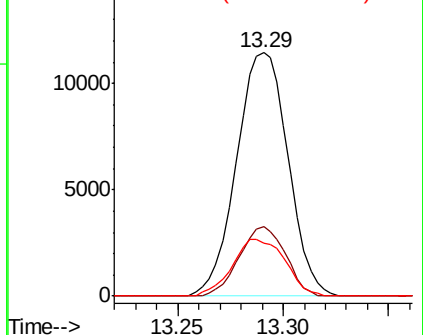


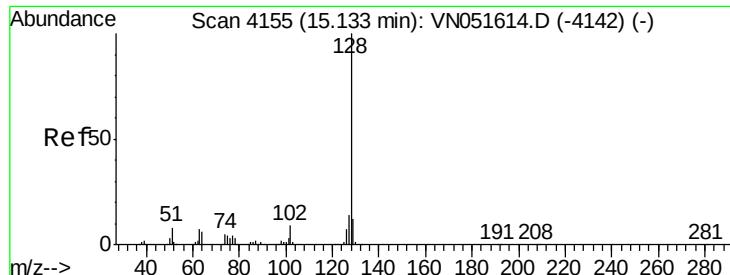
#82
p-Isopropyltoluene
Concen: 0.901 ug/l
RT: 13.29 min Scan# 3582
Delta R.T. -0.00 min
Lab File: VN051643.D
Acq: 1 Oct 2018 17:20

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.6	0.0	52.0
91	23.9	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# 4155

Delta R.T. -0.00 min

Lab File: VN051643.D

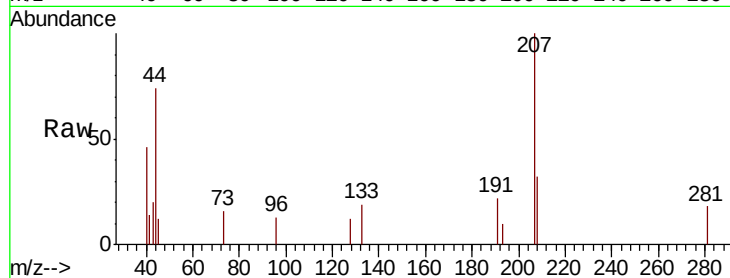
Acq: 1 Oct 2018 17:20

Instrument :

MSVOA_N

ClientSampleId :

002M-35TH-AVE(SEP)DL



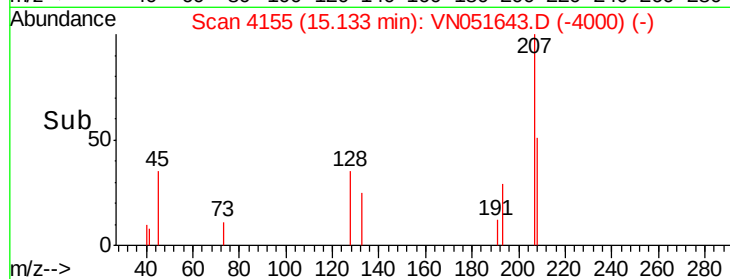
Tot Ion:128 Resp: 140

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

