

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN082818\
 Data File : VN050915.D
 Acq On : 28 Aug 2018 15:45
 Operator : MD\SY
 Sample : J4674-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

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

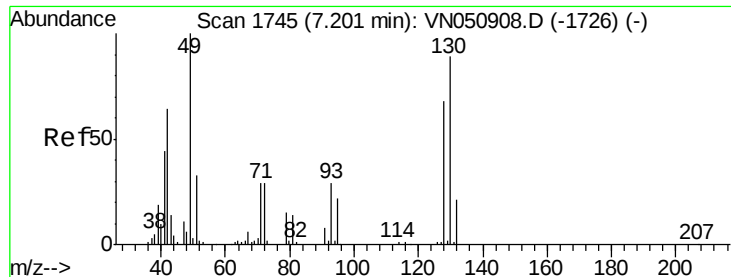
Quant Time: Aug 28 16:06:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Aug 28 14:02:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	113394	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	578903	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	485148	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.03	65	223065	30.83	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.77%
60) 4-Bromofluorobenzene	12.40	95	164828	22.85	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	76.17%
63) Toluene-d8	10.09	98	680799	30.09	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	2.06	50	2153	0.26	ug/l	# 86
5) Bromomethane	2.57	94	2511	0.50	ug/l	88
11) Methyl Iodide	3.95	142	1193	0.21	ug/l	# 74
12) Methyl Acetate	4.33	43	4365	0.62	ug/l	# 82
13) Acrolein	3.81	56	133	0.85	ug/l	# 66
15) Acetone	3.82	58	882332	1439.39	ug/l	89
16) Carbon Disulfide	4.05	76	8543	0.46	ug/l	100
18) Methylene Chloride	4.55	84	4468	0.62	ug/l	88
25) Chloroform	7.38	83	107382	8.77	ug/l	95
30) 2-Butanone	6.84	43	20504	7.69	ug/l	# 59
41) Bromodichloromethane	9.40	83	10193	1.15	ug/l	100
49) cis-1,3-Dichloropropene	10.16	75	8307	0.83	ug/l	# 1
51) Ethyl methacrylate	10.10	69	2230	0.30	ug/l	92
58) 4-Methyl-2-Pentanone	9.99	43	7760	1.40	ug/l	# 91
59) 2-Hexanone	10.76	43	1266	0.35	ug/l	# 89
62) Toluene	10.16	91	1310403	48.41	ug/l	100
72) 1,2,3-Trichloropropane	12.40	75	78480	13.47	ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	78480	43.06	ug/l	# 14
79) tert-butylbenzene	13.29	119	11631	0.60	ug/l	63
82) p-Isopropyltoluene	13.29	119	11631	0.53	ug/l	89
91) Naphthalene	15.14	128	1988	8.70	ug/l	# 91

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



#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1744

Delta R.T. -0.00 min

Lab File: VN050915.D

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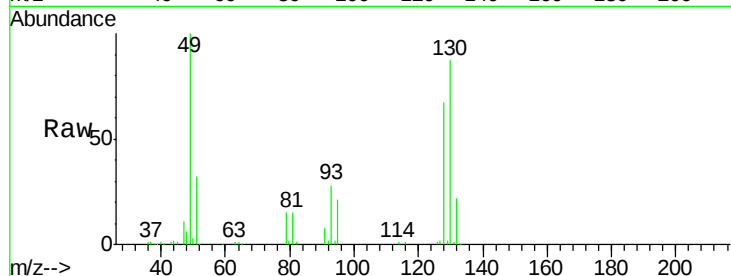
Tot Ion:128 Resp: 113394

Ion Ratio Lower Upper

128 100

49 151.6 0.0 378.3

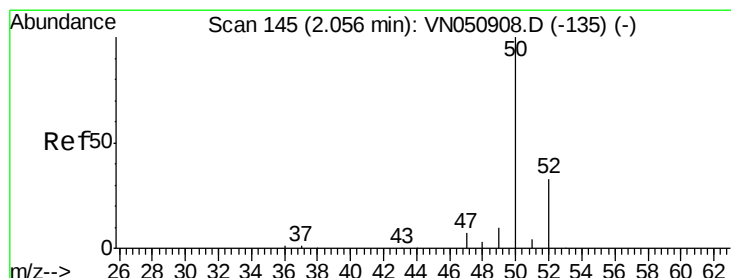
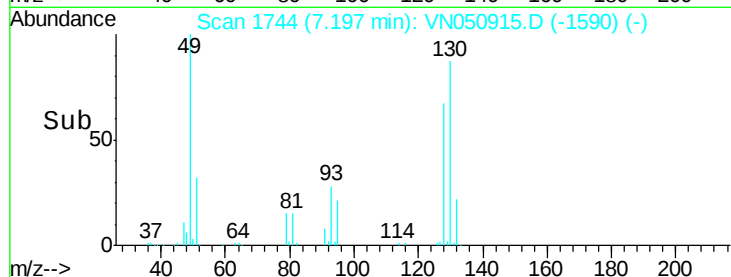
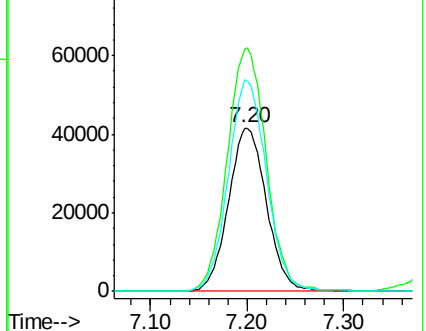
130 130.5 0.0 320.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.26 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050915.D

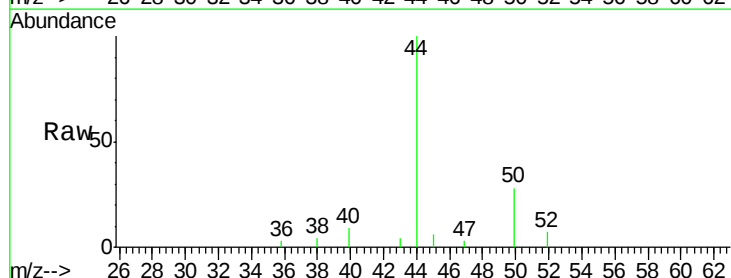
Acq: 28 Aug 2018 15:45

Tgt Ion: 50 Resp: 2153

Ion Ratio Lower Upper

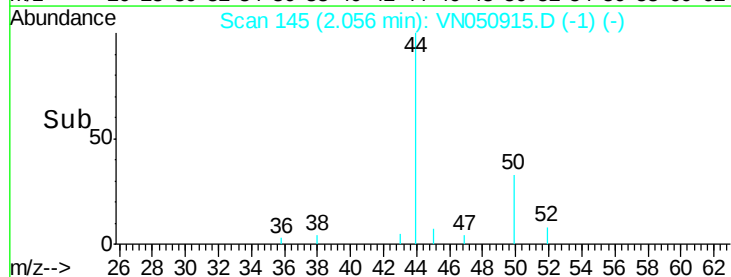
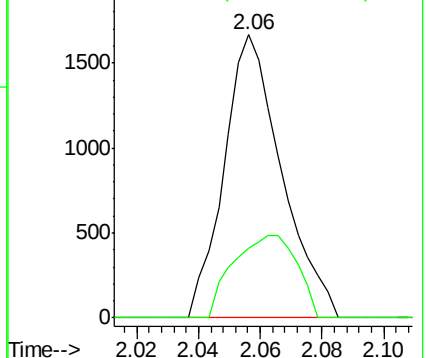
50 100

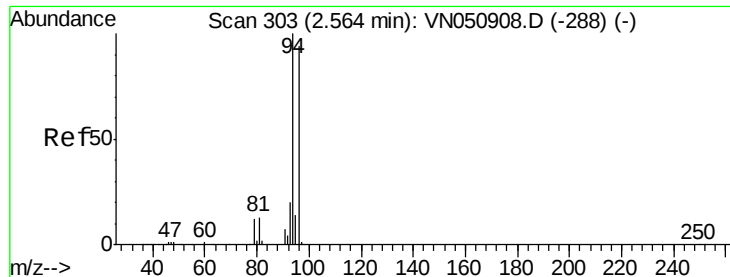
52 24.6 26.1 39.1#



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#5

Bromomethane

Concen: 0.50 ug/l

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN050915.D

Acq: 28 Aug 2018 15:45

Instrument :

MSVOA_N

ClientSampleId :

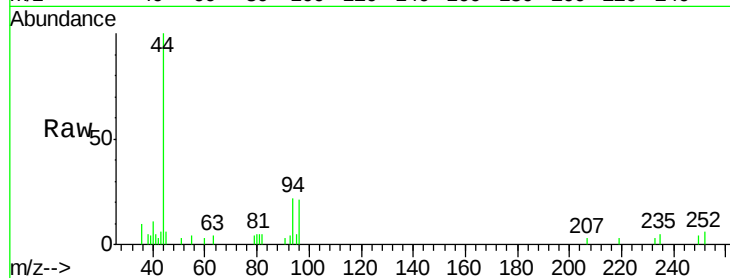
002M-35TH-AVE(JULY)

Tot Ion: 94 Resp: 2511

Ion Ratio Lower Upper

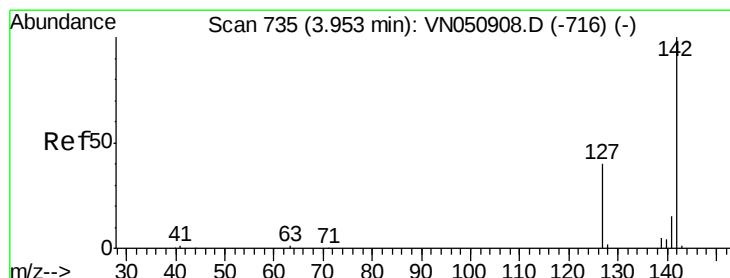
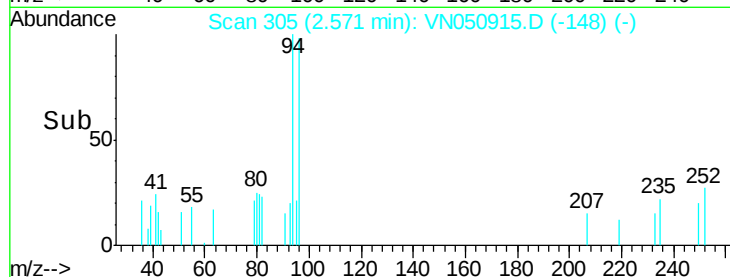
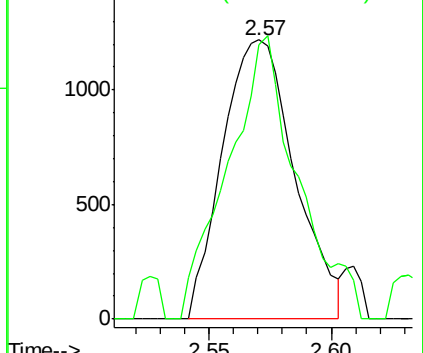
94 100

96 83.6 75.9 113.9



Abundance Ion 94.00 (93.70 to 94.70): VN050915.D (-148) (-)

Ion 96.00 (95.70 to 96.70): VN050915.D (-148) (-)



#11

Methyl Iodide

Concen: 0.21 ug/l

RT: 3.95 min Scan# 735

Delta R.T. -0.00 min

Lab File: VN050915.D

Acq: 28 Aug 2018 15:45

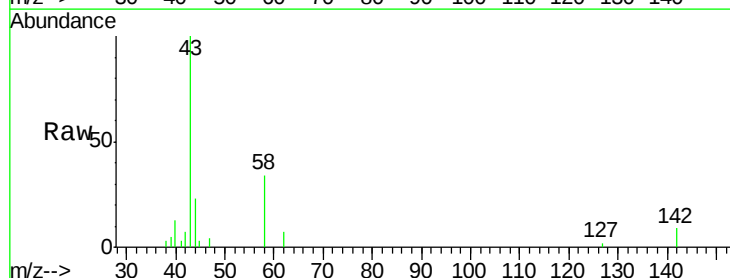
Tgt Ion: 142 Resp: 1193

Ion Ratio Lower Upper

142 100

127 25.9 20.2 60.5

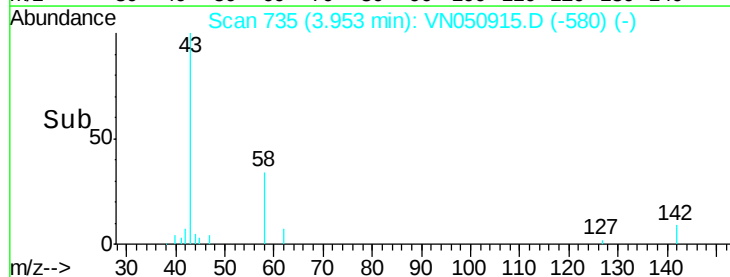
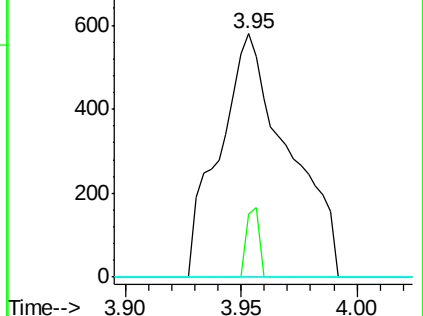
141 0.0 6.9 20.6#

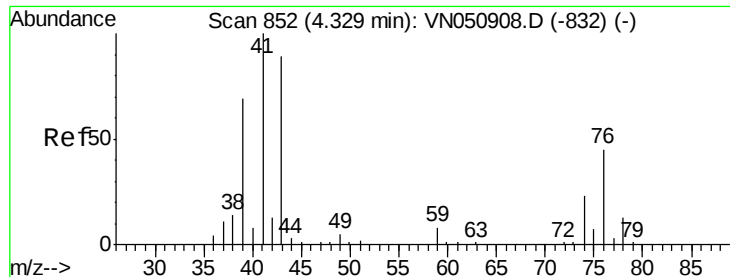


Abundance Ion 142.00 (141.70 to 142.70): VN050915.D (-580) (-)

Ion 127.00 (126.70 to 127.70): VN050915.D (-580) (-)

Ion 141.00 (140.70 to 141.70): VN050915.D (-580) (-)

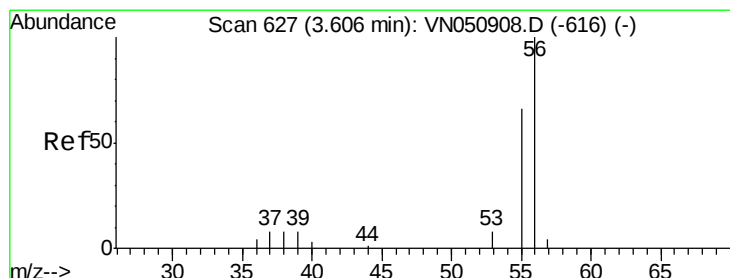
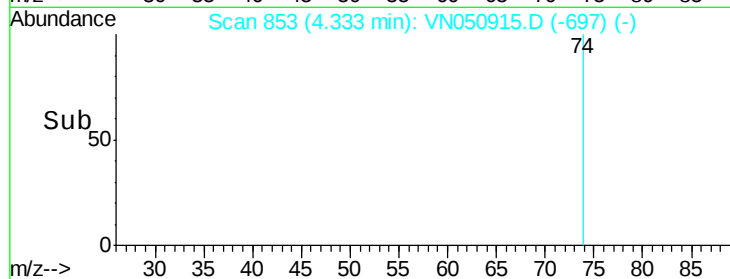
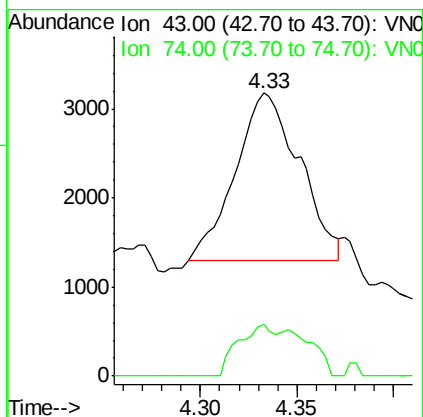
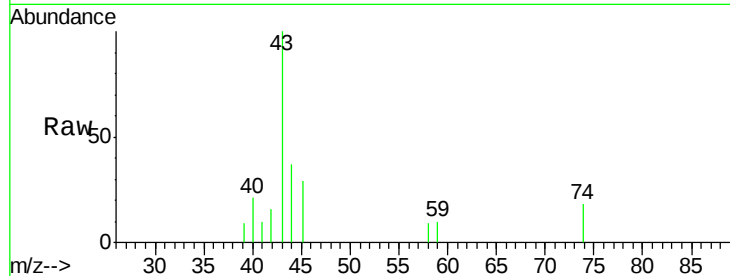




#12
Methyl Acetate
Concen: 0.62 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.00 min
Lab File: VN050915.D
Acq: 28 Aug 2018 15:45

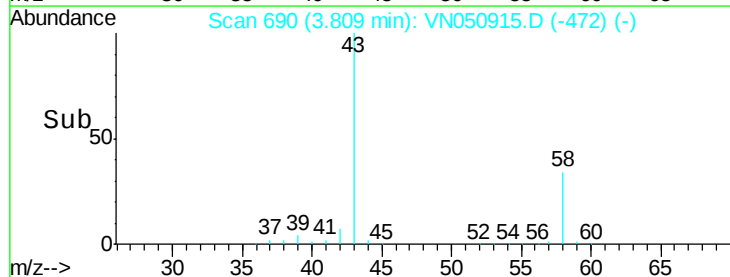
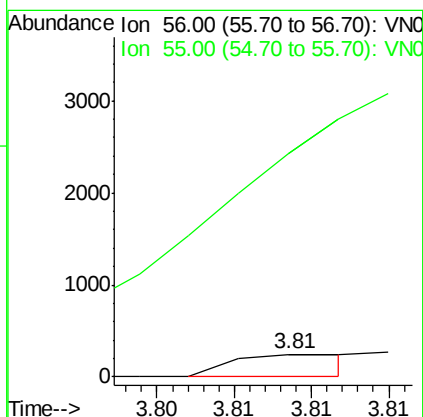
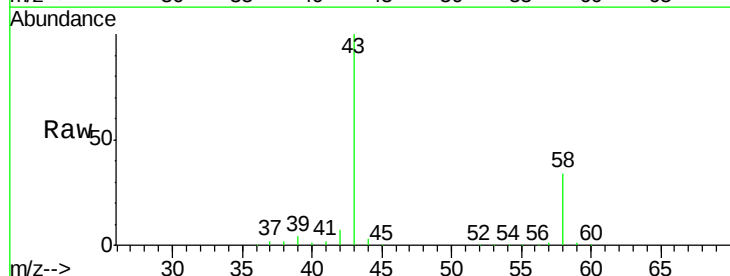
Instrument :
MSVOA_N
ClientSampleId :
002M-35TH-AVE(JULY)

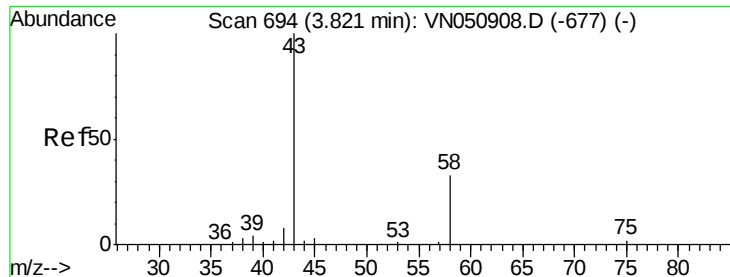
Tot Ion: 43 Resp: 4365
Ion Ratio Lower Upper
43 100
74 33.0 19.3 28.9#



#13
Acrolein
Concen: 0.85 ug/l
RT: 3.81 min Scan# 690
Delta R.T. 0.20 min
Lab File: VN050915.D
Acq: 28 Aug 2018 15:45

Tgt Ion: 56 Resp: 133
Ion Ratio Lower Upper
56 100
55 44.4 58.6 88.0#





#15

Acetone

Concen: 1439.39 ug/l

RT: 3.82 min Scan# 694

Delta R.T. -0.00 min

Lab File: VN050915.D

Acq: 28 Aug 2018 15:45

Instrument :

MSVOA_N

ClientSampleId :

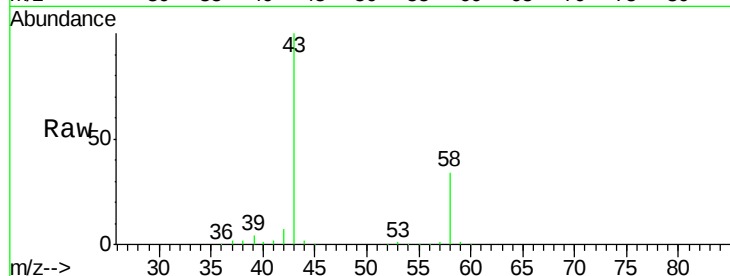
002M-35TH-AVE(JULY)

Tot Ion: 58 Resp: 882332

Ion Ratio Lower Upper

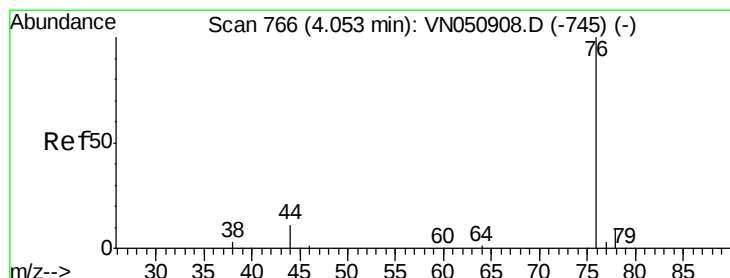
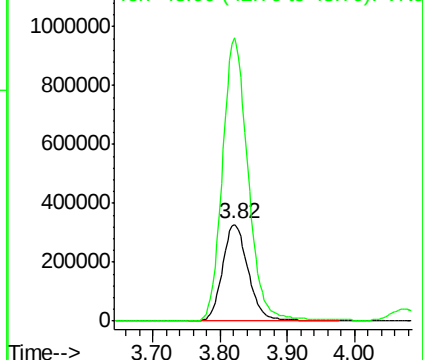
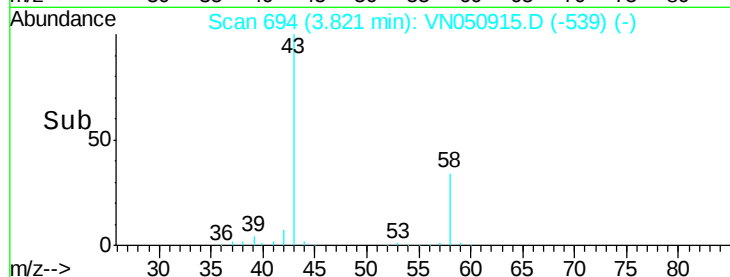
58 100

43 292.6 252.0 378.0



Abundance Ion 58.00 (57.70 to 58.70): VN050915.D (-539) (-)

Ion 43.00 (42.70 to 43.70): VN050915.D (-539) (-)



#16

Carbon Disulfide

Concen: 0.46 ug/l

RT: 4.05 min Scan# 765

Delta R.T. -0.00 min

Lab File: VN050915.D

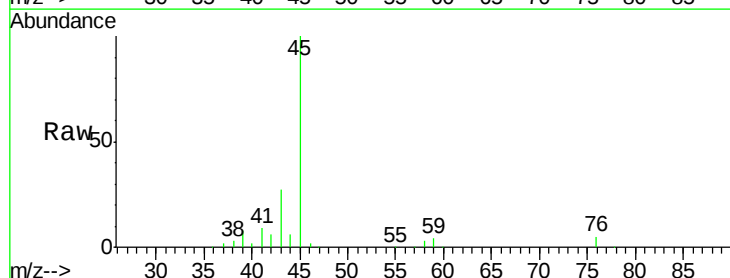
Acq: 28 Aug 2018 15:45

Tgt Ion: 76 Resp: 8543

Ion Ratio Lower Upper

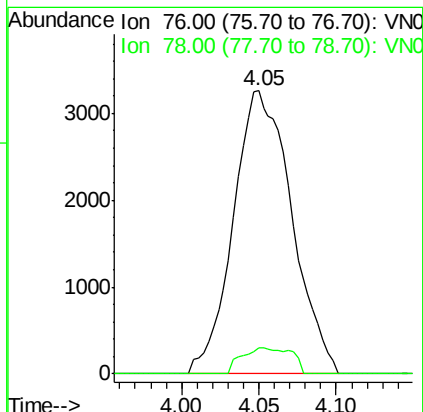
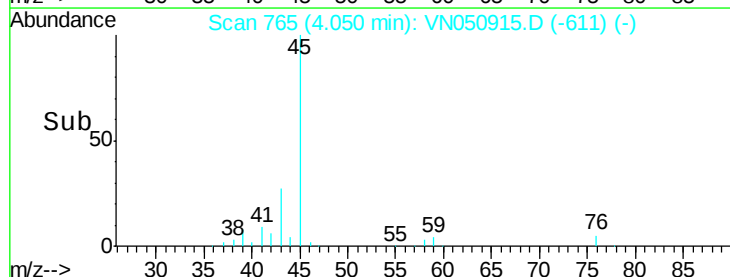
76 100

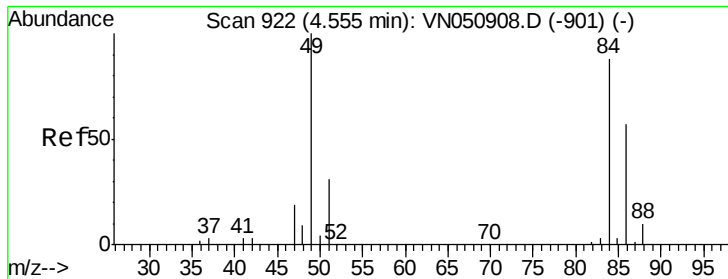
78 9.1 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN050915.D (-611) (-)

Ion 78.00 (77.70 to 78.70): VN050915.D (-611) (-)

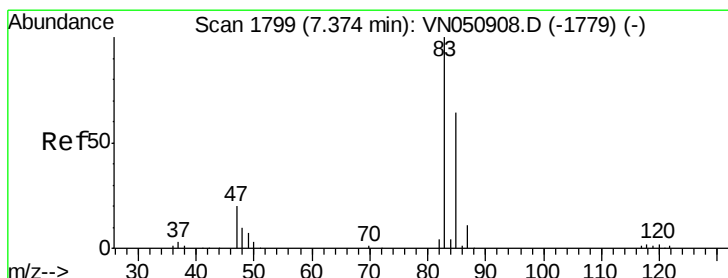
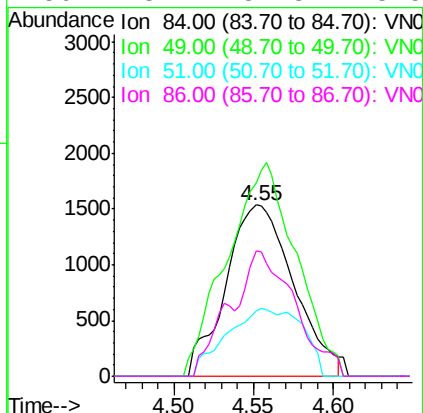
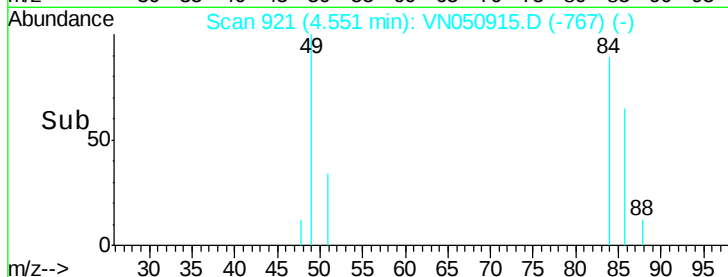
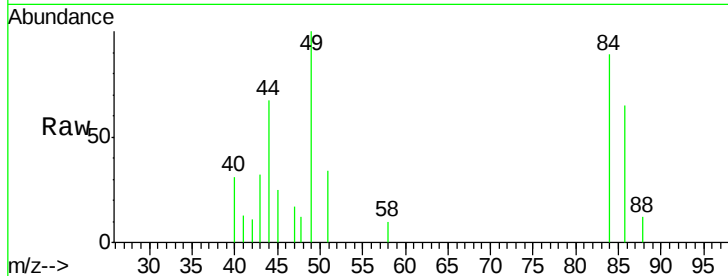




#18
Methvlene Chloride
Concen: 0.62 ug/l
RT: 4.55 min Scan# 921
Delta R.T. -0.00 min
Lab File: VN050915.D
Acq: 28 Aug 2018 15:45

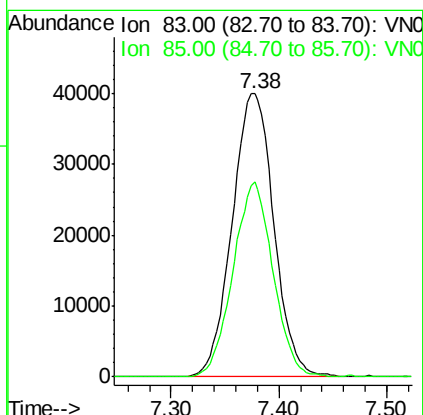
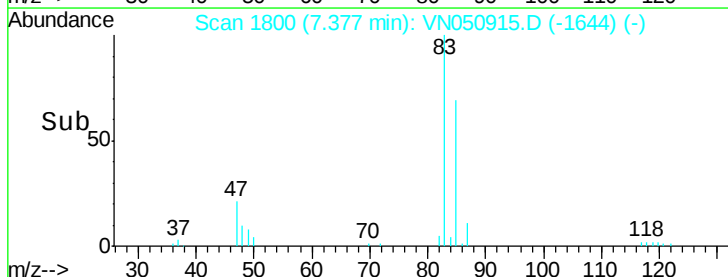
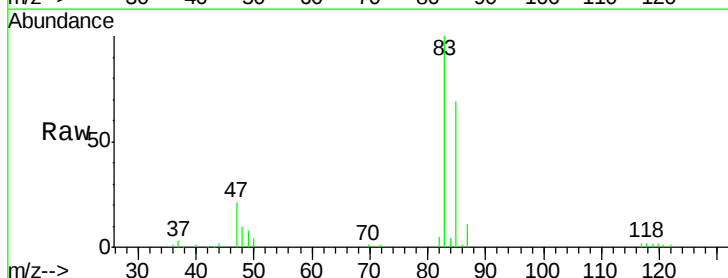
Instrument :
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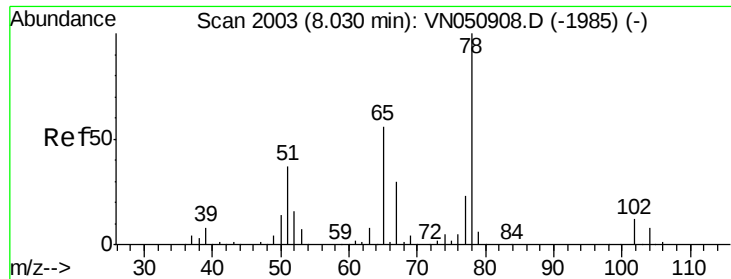
Tot Ion: 84 Resp: 4468
Ion Ratio Lower Upper
84 100
49 102.3 95.1 142.7
51 38.0 28.8 43.2
86 73.1 52.3 78.5



#25
Chloroform
Concen: 8.77 ug/l
RT: 7.38 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VN050915.D
Acq: 28 Aug 2018 15:45

Tgt Ion: 83 Resp: 107382
Ion Ratio Lower Upper
83 100
85 68.7 52.1 78.1





#27

1,2-Dichloroethane-d4

Concen: 30.83 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. -0.00 min

Lab File: VN050915.D

Acq: 28 Aug 2018 15:45

Instrument :

MSVOA_N

ClientSampleId :

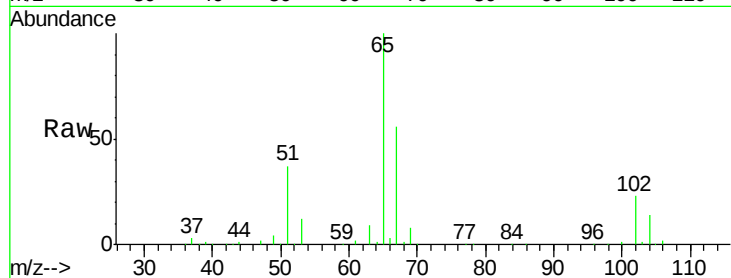
002M-35TH-AVE(JULY)

Tot Ion: 65 Resp: 223065

Ion Ratio Lower Upper

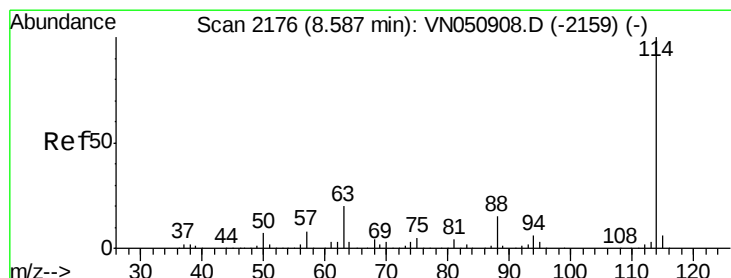
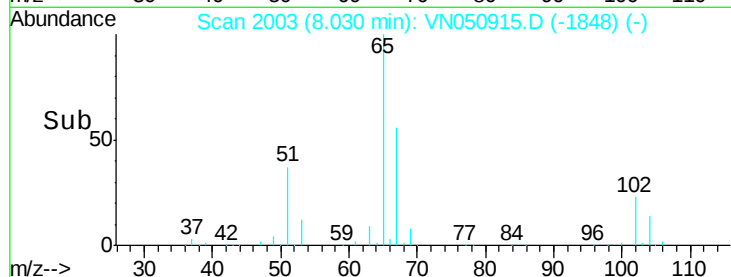
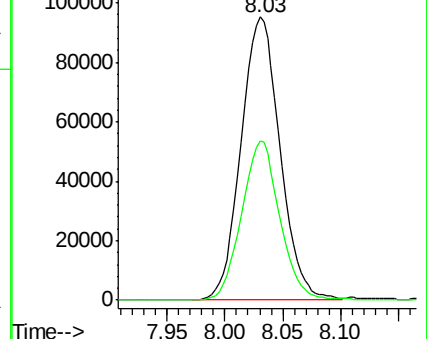
65 100

67 54.6 42.7 64.1



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0



#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VN050915.D

Acq: 28 Aug 2018 15:45

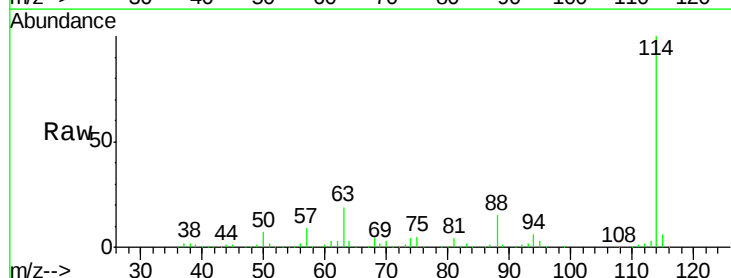
Tgt Ion: 114 Resp: 578903

Ion Ratio Lower Upper

114 100

63 19.5 16.2 24.2

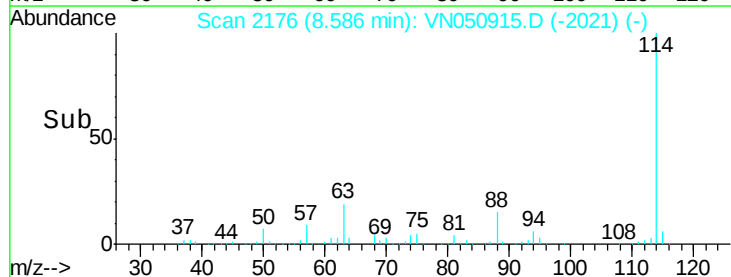
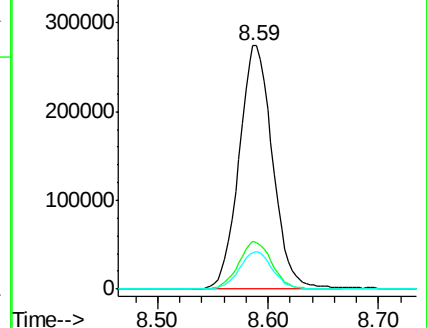
88 15.3 12.3 18.5

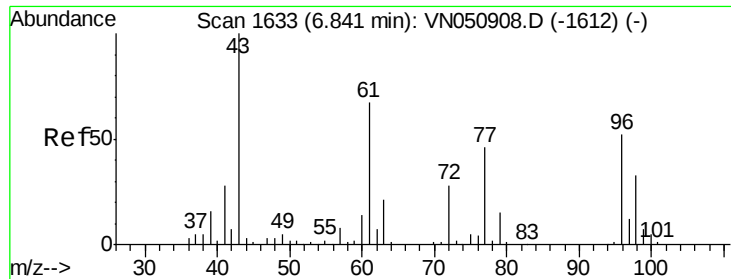


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 88.00 (87.70 to 88.70): VN0

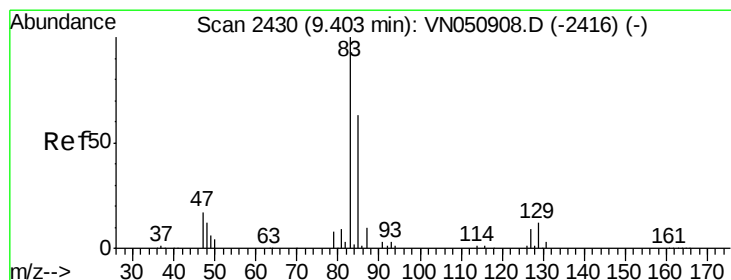
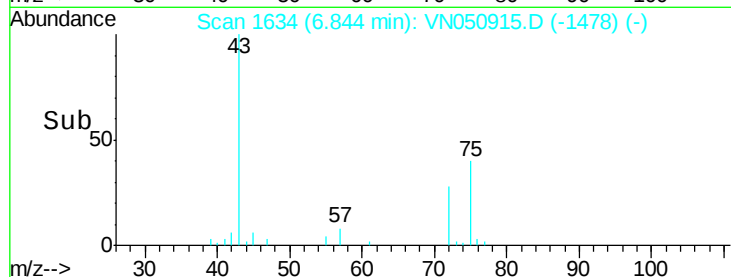
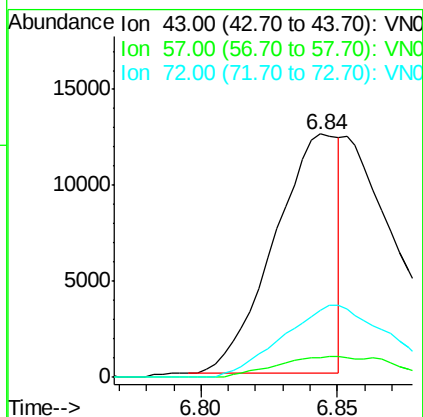
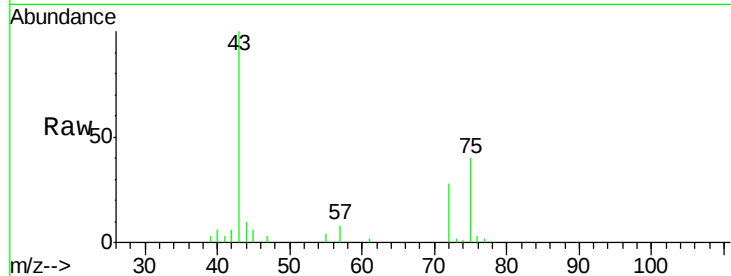




#30
2-Butanone
Concen: 7.69 ug/l
RT: 6.84 min Scan# 1634
Delta R.T. 0.00 min
Lab File: VN050915.D
Acq: 28 Aug 2018 15:45

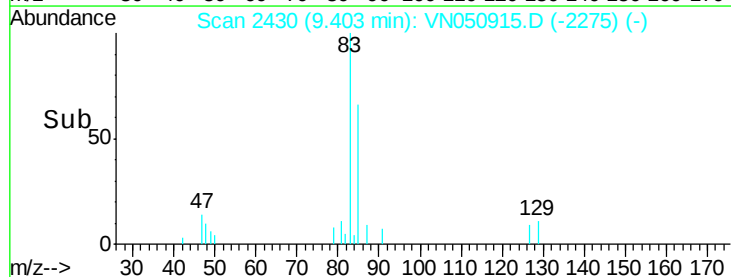
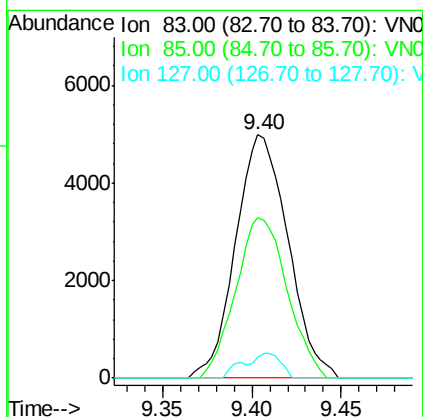
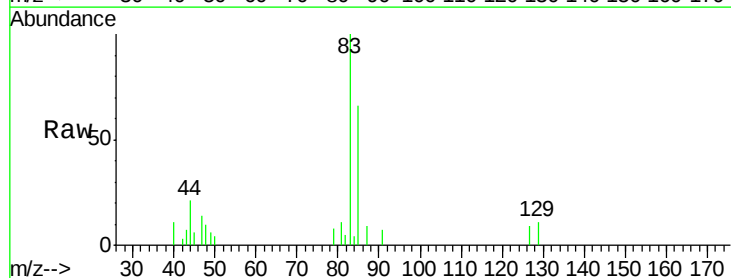
Instrument :
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002M-35TH-AVE(JULY)

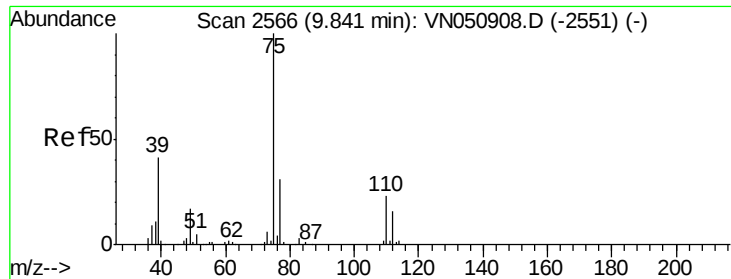
Tot Ion: 43 Resp: 20504
Ion Ratio Lower Upper
43 100
57 10.5 6.8 10.2#
72 53.8 21.4 32.0#



#41
Bromodichloromethane
Concen: 1.15 ug/l
RT: 9.40 min Scan# 2430
Delta R.T. -0.00 min
Lab File: VN050915.D
Acq: 28 Aug 2018 15:45

Tgt Ion: 83 Resp: 10193
Ion Ratio Lower Upper
83 100
85 66.0 52.6 78.8
127 8.6 7.0 10.4





#49

cis-1,3-Dichloropropene

Concen: 0.83 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. 0.32 min

Lab File: VN050915.D

Acq: 28 Aug 2018 15:45

Instrument :

MSVOA_N

ClientSampleId :

002M-35TH-AVE(JULY)

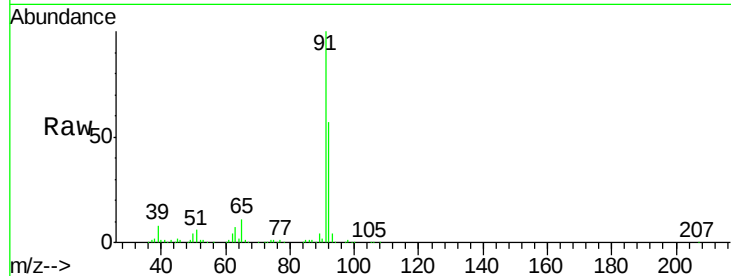
Tot Ion: 75 Resp: 8307

Ion Ratio Lower Upper

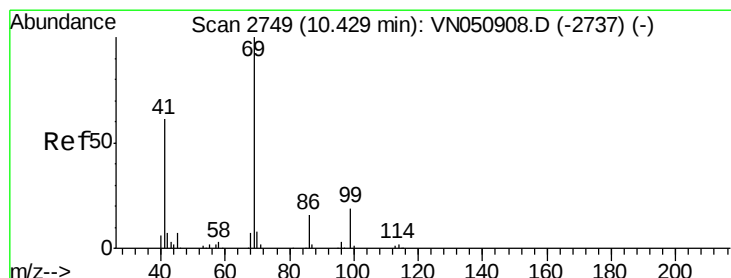
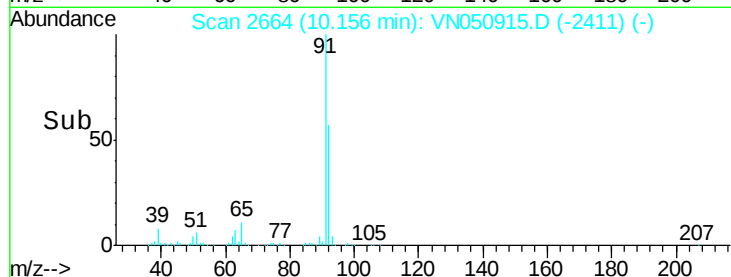
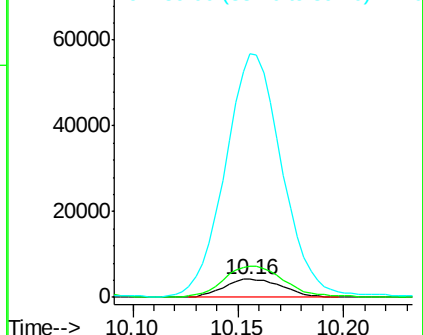
75 100

77 166.8 25.7 38.5#

39 1316.2 36.3 54.5#



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



#51

Ethyl methacrylate

Concen: 0.30 ug/l

RT: 10.10 min Scan# 2646

Delta R.T. -0.33 min

Lab File: VN050915.D

Acq: 28 Aug 2018 15:45

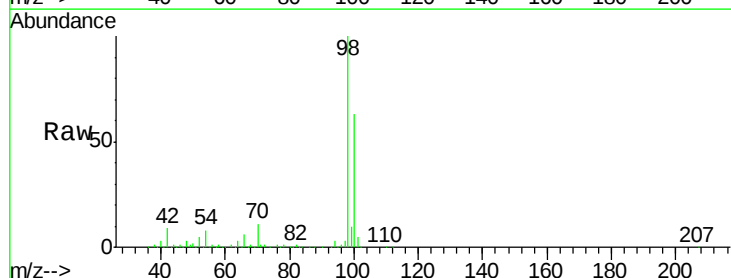
Tgt Ion: 69 Resp: 2230

Ion Ratio Lower Upper

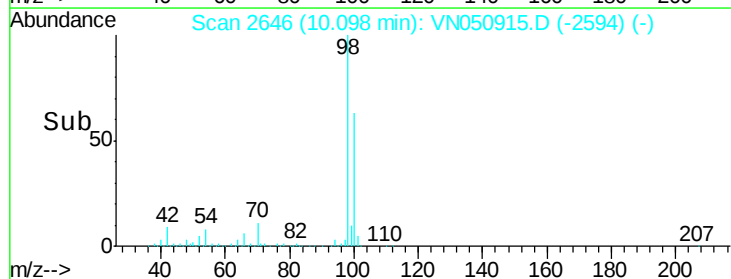
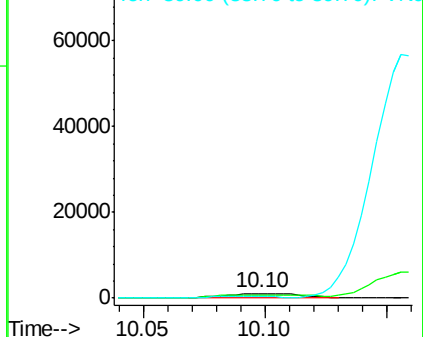
69 100

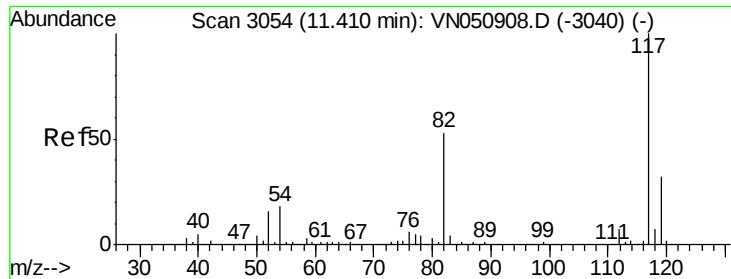
41 69.8 31.9 95.9

39 28.1 16.7 50.1



Abundance Ion 69.00 (68.70 to 69.70): VNO
Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO

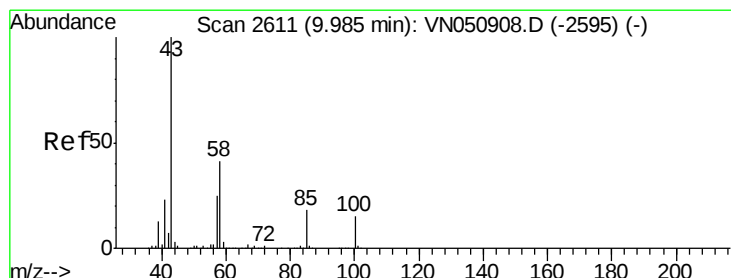
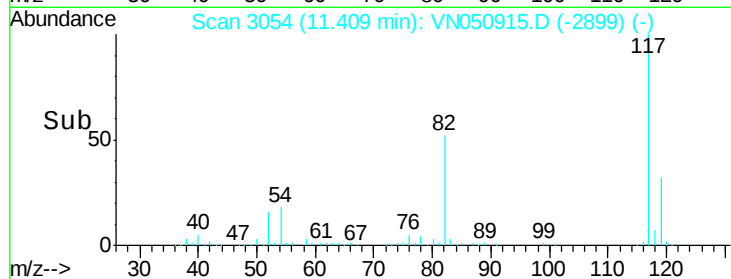
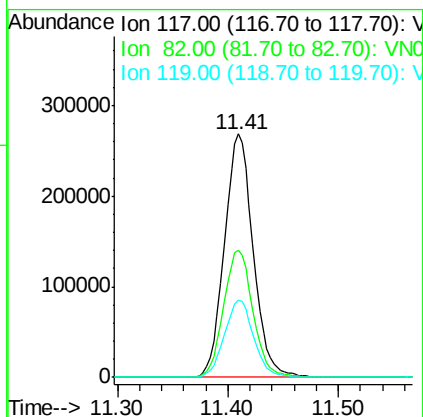
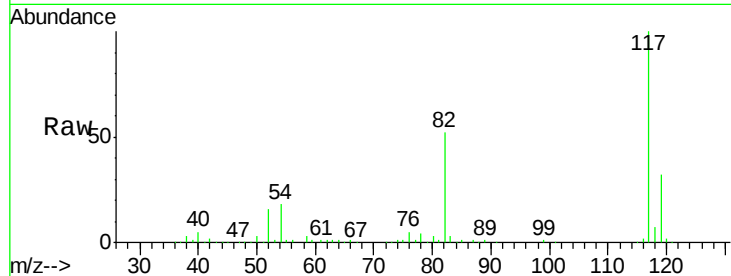




#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050915.D
Acq: 28 Aug 2018 15:45

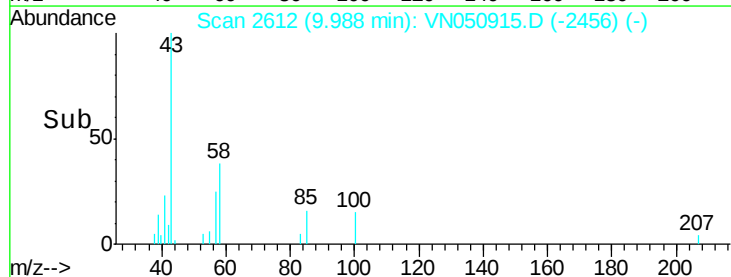
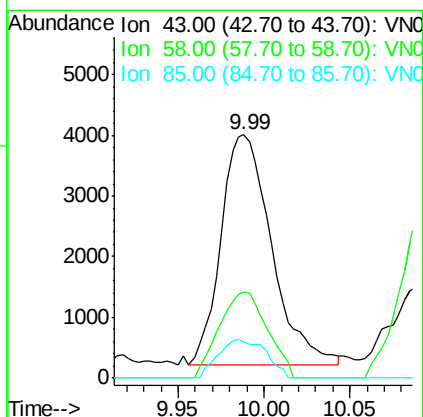
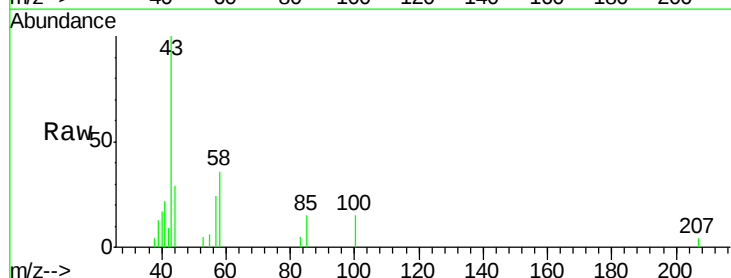
Instrument :
MSVOA_N
ClientSampleId :
002M-35TH-AVE(JULY)

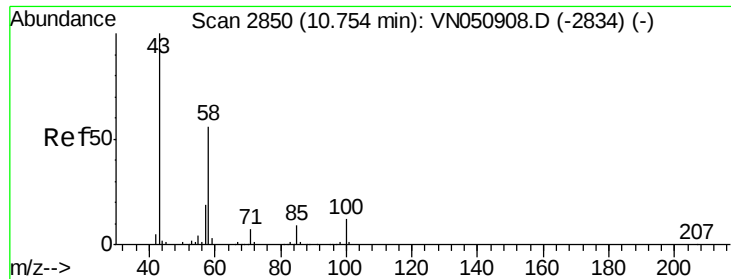
Tot Ion:117 Resp: 485148
Ion Ratio Lower Upper
117 100
82 53.3 42.4 63.6
119 32.4 25.4 38.0



#58
4-Methyl-2-Pentanone
Concen: 1.40 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN050915.D
Acq: 28 Aug 2018 15:45

Tgt Ion: 43 Resp: 7760
Ion Ratio Lower Upper
43 100
58 35.5 31.2 46.8
85 10.4 14.4 21.6#





#59

2-Hexanone

Concen: 0.35 ug/l

RT: 10.76 min Scan# 2852

Delta R.T. 0.01 min

Lab File: VN050915.D

Acq: 28 Aug 2018 15:45

Instrument :

MSVOA_N

ClientSampleId :

002M-35TH-AVE(JULY)

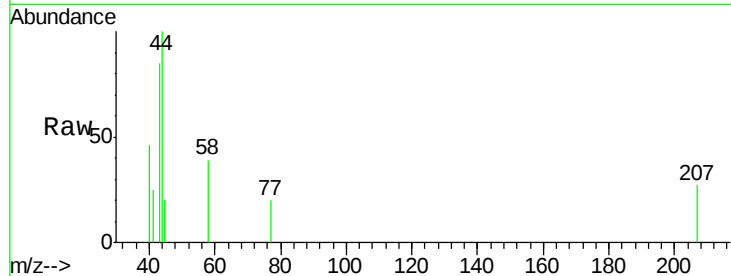
Tot Ion: 43 Resp: 1266

Ion Ratio Lower Upper

43 100

58 57.2 43.8 65.8

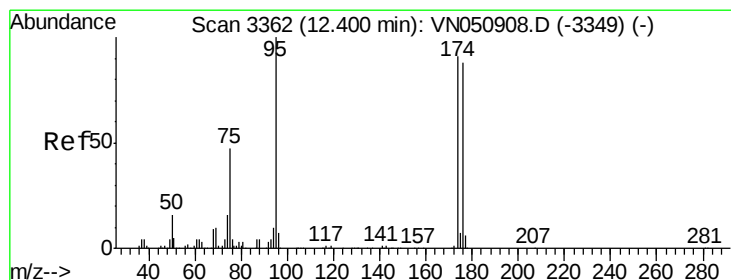
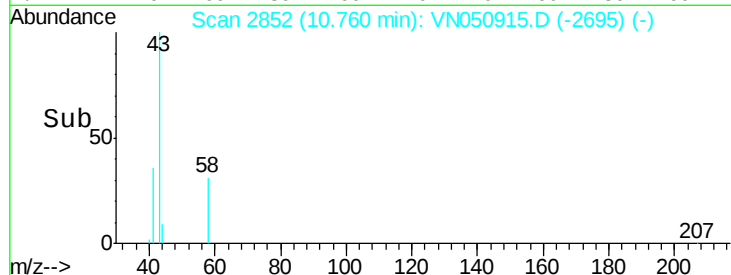
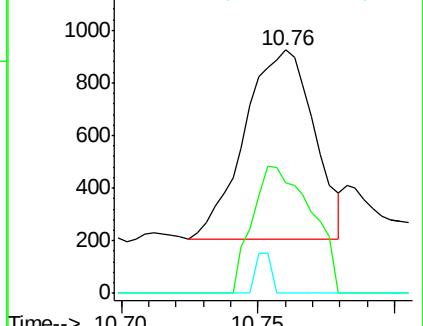
57 4.6 15.1 22.7#



Abundance Ion 43.00 (42.70 to 43.70): VN050908.D (-2834) (-)

Ion 58.00 (57.70 to 58.70): VN050908.D (-2834) (-)

Ion 57.00 (56.70 to 57.70): VN050908.D (-2834) (-)



#60

4-Bromofluorobenzene

Concen: 22.85 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050915.D

Acq: 28 Aug 2018 15:45

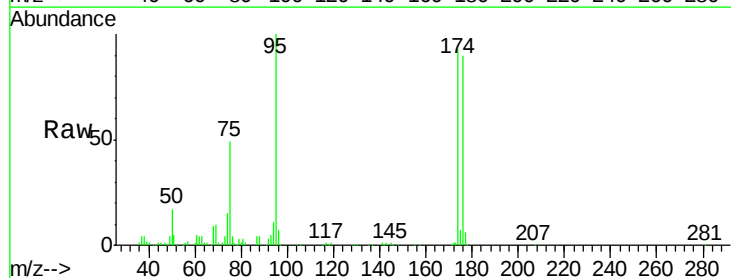
Tgt Ion: 95 Resp: 164828

Ion Ratio Lower Upper

95 100

174 94.0 72.3 108.5

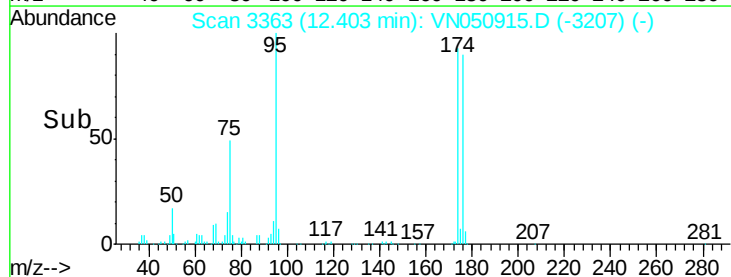
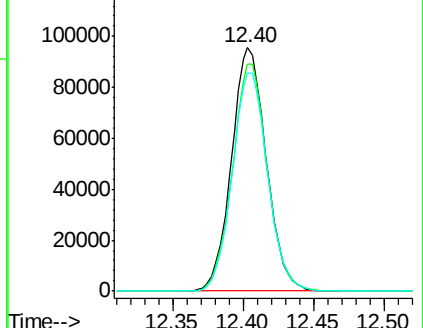
176 90.9 70.0 105.0

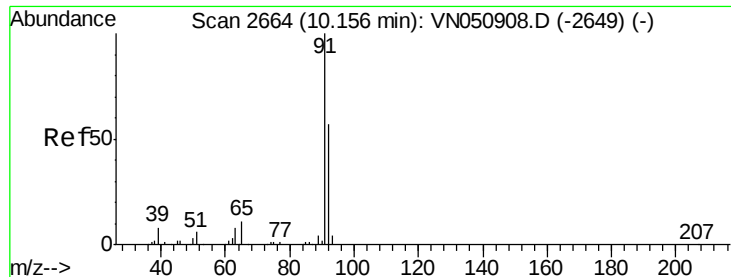


Abundance Ion 95.00 (94.70 to 95.70): VN050908.D (-3349) (-)

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

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





#62

Toluene

Concen: 48.41 ug/l

RT: 10.16 min Scan# 2665

Delta R.T. 0.00 min

Lab File: VN050915.D

Acq: 28 Aug 2018 15:45

Instrument :

MSVOA_N

ClientSampleId :

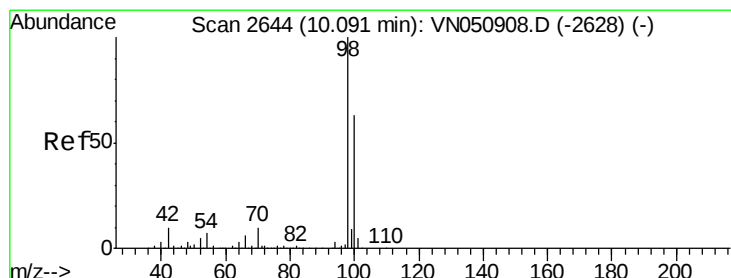
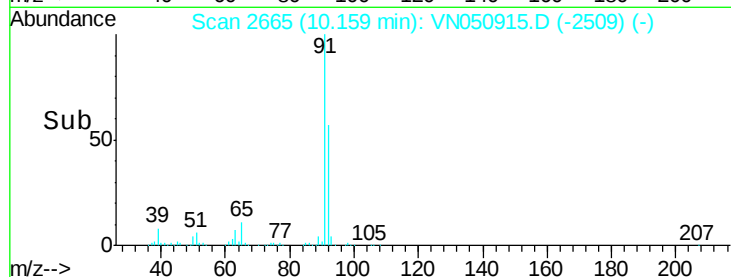
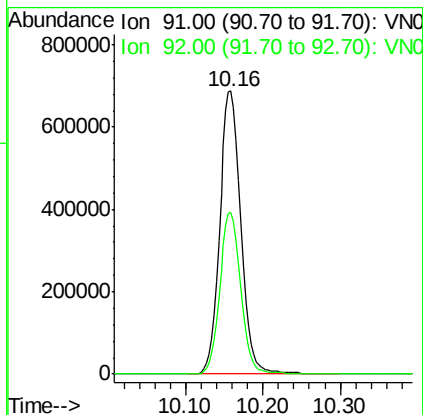
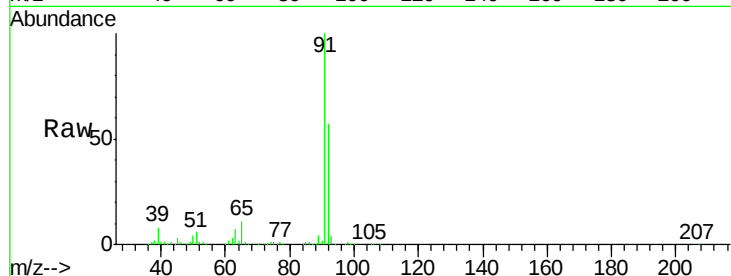
002M-35TH-AVE(JULY)

Tot Ion: 91 Resp: 1310403

Ion Ratio Lower Upper

91 100

92 56.9 45.7 68.5



#63

Toluene-d8

Concen: 30.09 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VN050915.D

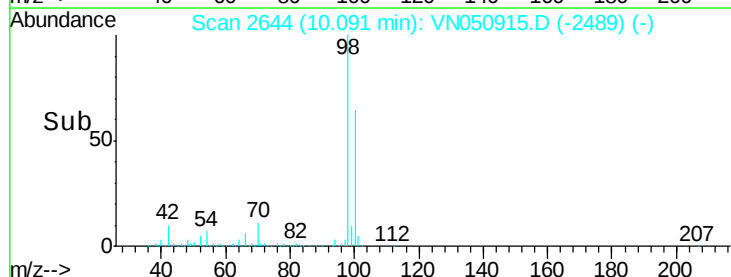
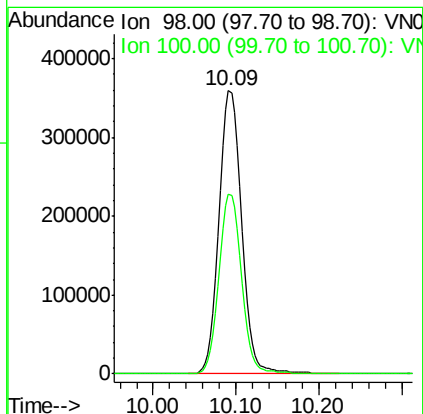
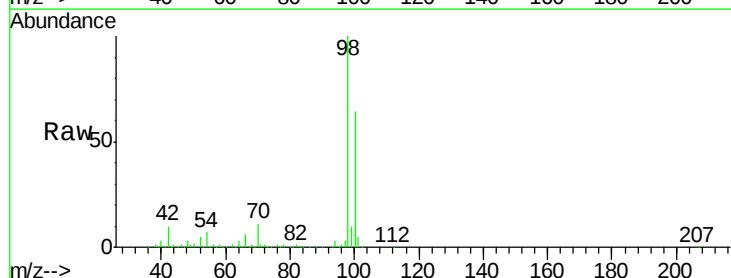
Acq: 28 Aug 2018 15:45

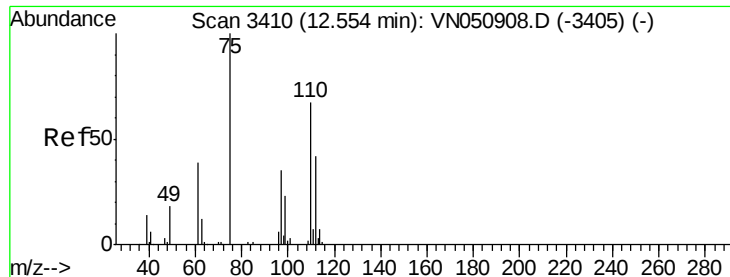
Tgt Ion: 98 Resp: 680799

Ion Ratio Lower Upper

98 100

100 63.5 51.2 76.8





#72

1,2,3-Trichloropropane

Concen: 13.47 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050915.D

Acq: 28 Aug 2018 15:45

Instrument :

MSVOA_N

ClientSampleId :

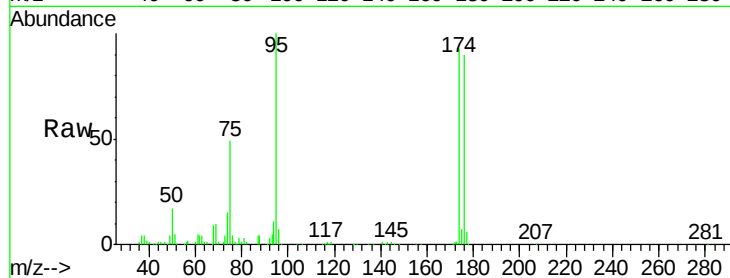
002M-35TH-AVE(JULY)

Tot Ion: 75 Resp: 78480

Ion Ratio Lower Upper

75 100

77 1.3 0.0 454.4



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

50000

40000

30000

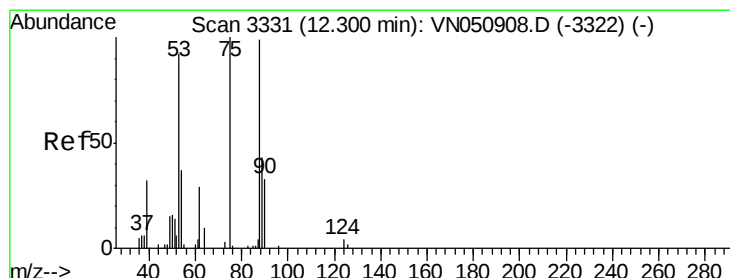
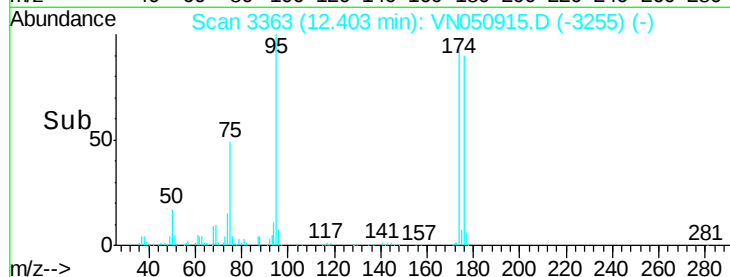
20000

10000

0

Time-->

12.35 12.40 12.45



#77

t-1,4-Dichloro-2-butene

Concen: 43.06 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050915.D

Acq: 28 Aug 2018 15:45

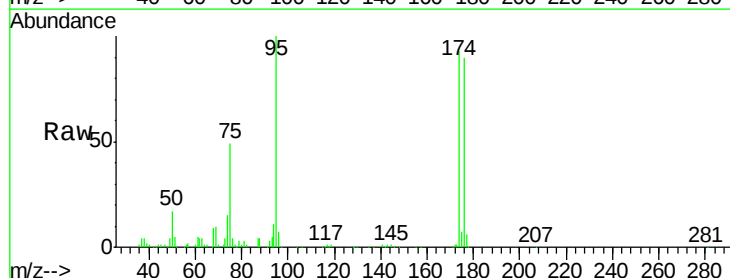
Tgt Ion: 75 Resp: 78480

Ion Ratio Lower Upper

75 100

53 0.0 44.6 134.0#

89 0.0 20.7 62.1#



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

60000

50000

40000

30000

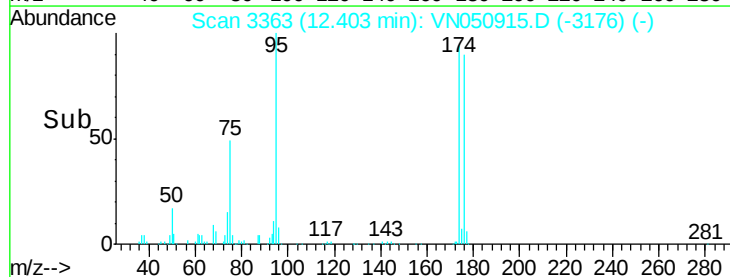
20000

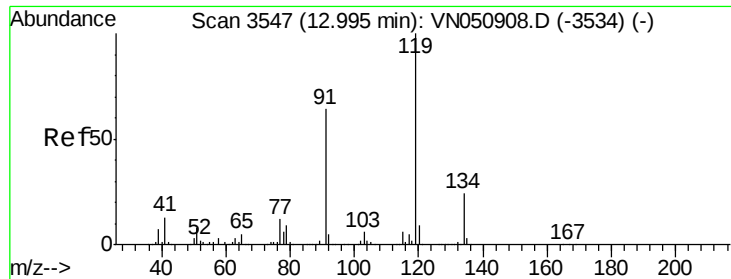
10000

0

Time-->

12.35 12.40 12.45

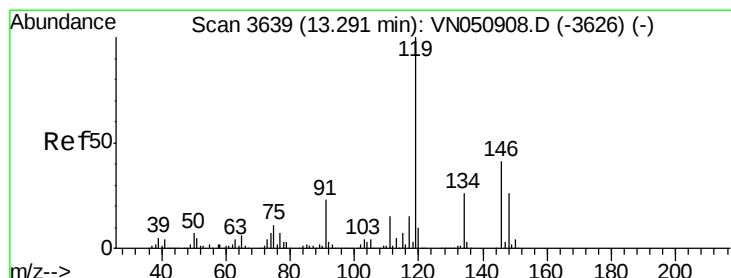
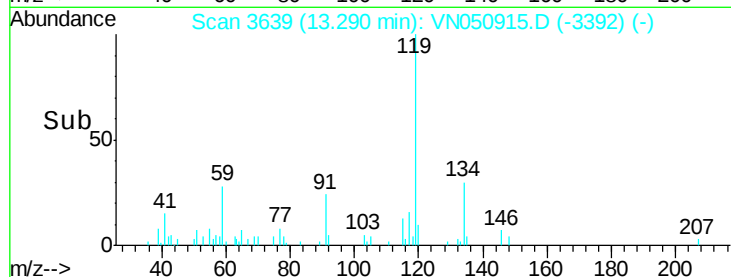
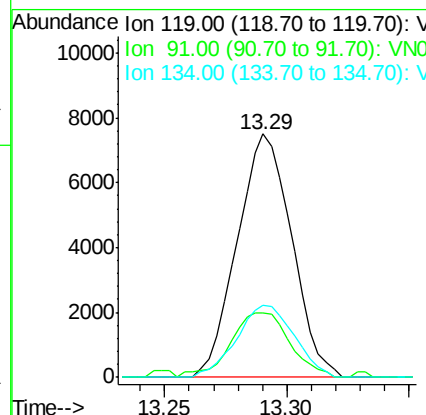
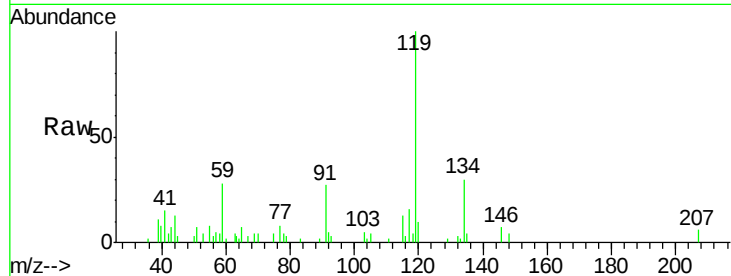




#79
tert-butylbenzene
Concen: 0.60 ug/l
RT: 13.29 min Scan# 3639
Delta R.T. 0.30 min
Lab File: VN050915.D
Acq: 28 Aug 2018 15:45

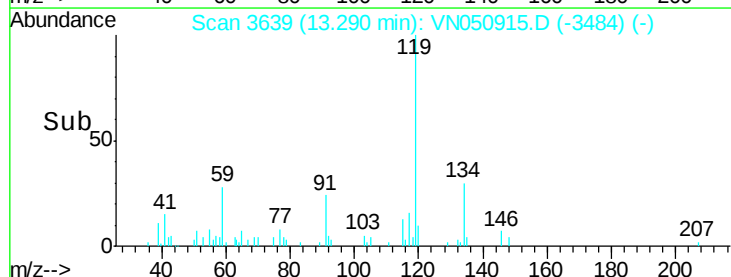
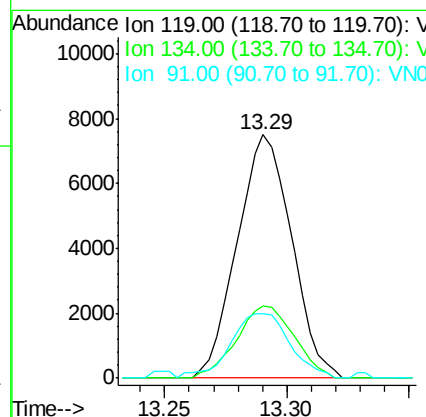
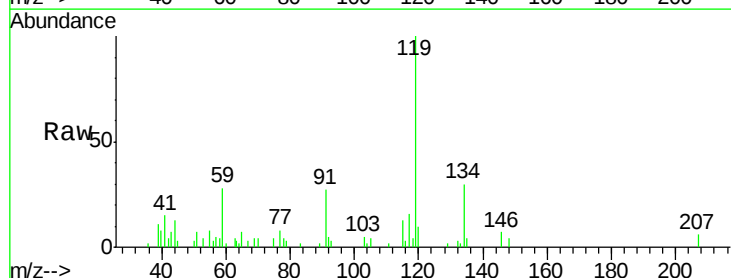
Instrument :
MSVOA_N
ClientSampleId :
002M-35TH-AVE(JULY)

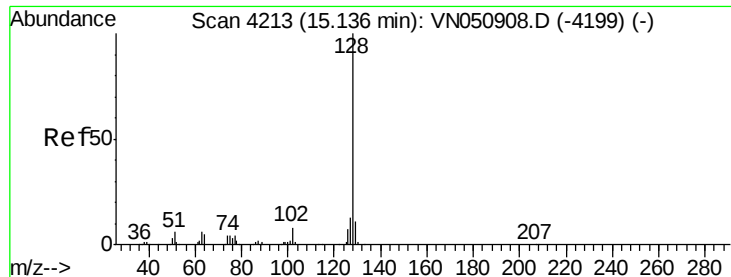
Tot Ion:119 Resp: 11631
Ion Ratio Lower Upper
119 100
91 28.8 0.0 126.8
134 31.2 0.0 47.4



#82
p-Isopropyltoluene
Concen: 0.53 ug/l
RT: 13.29 min Scan# 3639
Delta R.T. -0.00 min
Lab File: VN050915.D
Acq: 28 Aug 2018 15:45

Tgt Ion:119 Resp: 11631
Ion Ratio Lower Upper
119 100
134 31.2 0.0 52.2
91 28.8 0.0 45.6





#91

Naphthalene

Concen: 8.70 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

Lab File: VN050915.D

Acq: 28 Aug 2018 15:45

Instrument :

MSVOA_N

ClientSampleId :

002M-35TH-AVE(JULY)

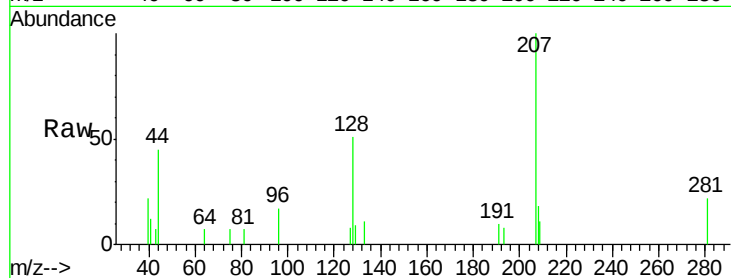
Tot Ion:128 Resp: 1988

Ion Ratio Lower Upper

128 100

127 14.0 10.2 15.4

129 5.3 9.0 13.4#



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

