

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090718\
 Data File : VN051045.D
 Acq On : 7 Sep 2018 10:25
 Operator : MD\SY
 Sample : J4817-02DL 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 002M-35TH-AVEDL

Quant Time: Sep 07 14:14:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:38:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	135922	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	650948	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	586711	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.03	65	256944	29.62	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.73%
60) 4-Bromofluorobenzene	12.40	95	196382	22.51	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	75.03%
63) Toluene-d8	10.09	98	787192	28.77	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	95.90%

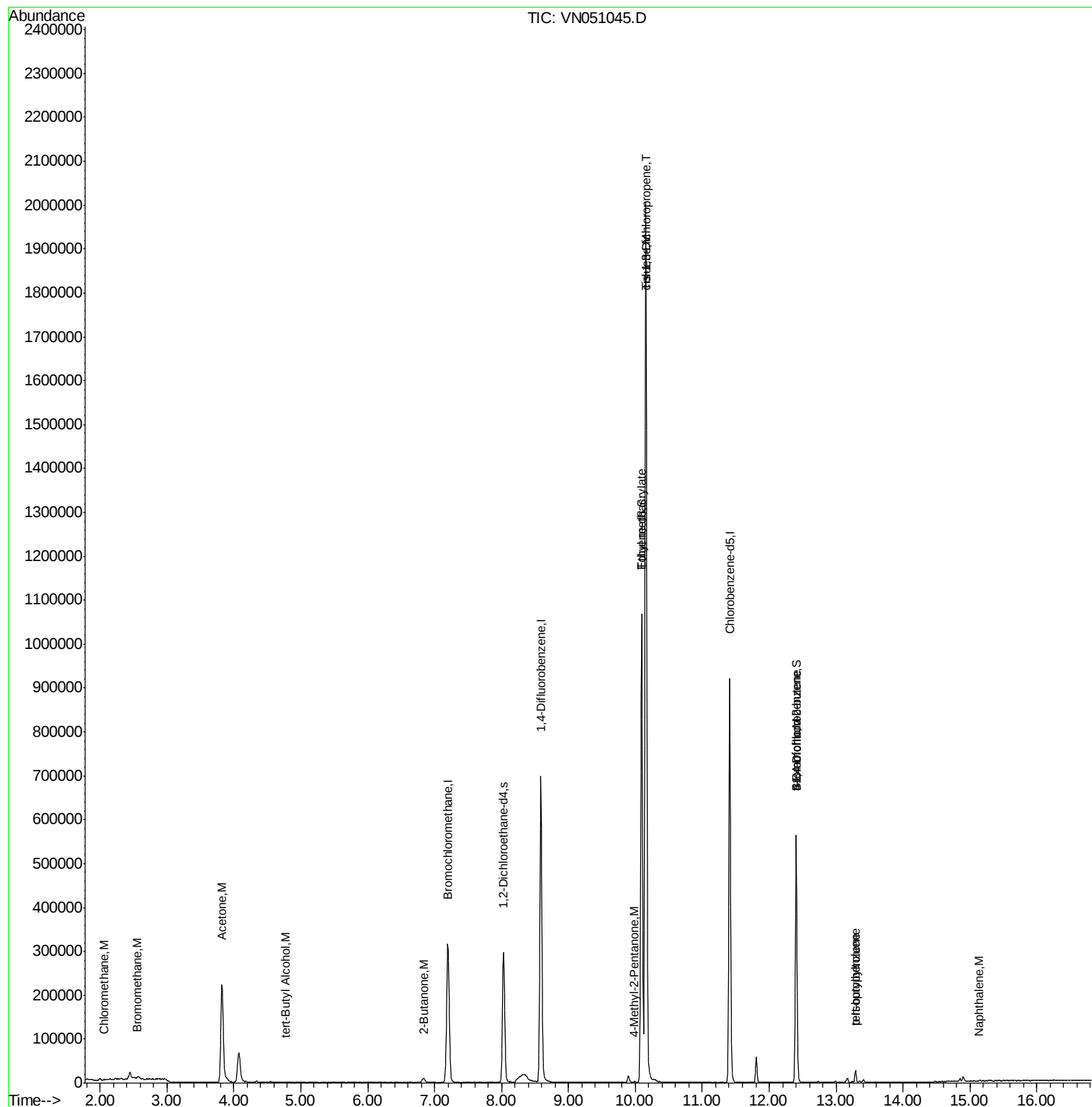
Target Compounds					Ovalue
3) Chloromethane	2.06	50	2211	0.222 ug/l	91
5) Bromomethane	2.56	94	3105	0.517 ug/l	82
15) Acetone	3.82	58	131746	179.302 ug/l	91
23) tert-Butyl Alcohol	4.77	59	194	0.318 ug/l #	100
30) 2-Butanone	6.85	43	4913	1.639 ug/l #	54
49) cis-1,3-Dichloropropene	10.16	75	9795	0.870 ug/l #	1
51) Ethyl methacrylate	10.10	69	2688	0.319 ug/l	85
56) Bromoform	12.40	173	1213	0.218 ug/l #	1
58) 4-Methyl-2-Pentanone	9.99	43	2250	0.335 ug/l #	70
62) Toluene	10.16	91	1620215	49.499 ug/l	99
77) t-1,4-Dichloro-2-butene	12.40	75	90455	41.038 ug/l #	13
79) tert-butylbenzene	13.29	119	15380	0.654 ug/l	60
82) p-Isopropyltoluene	13.29	119	15380	0.579 ug/l	99
91) Naphthalene	15.13	128	921	8.624 ug/l #	69

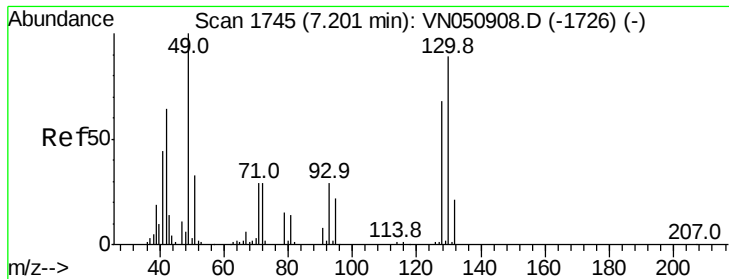
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Aug 29 01:38:44 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: VN051045.D

Acq: 7 Sep 2018 10:25

Instrument :

MSVOA_N

ClientSampleId :

002M-35TH-AVEDL

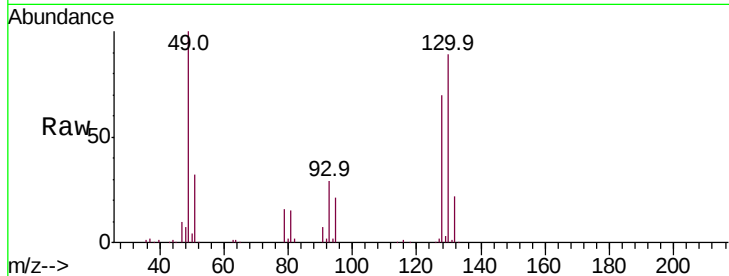
Tot Ion:128 Resp: 135922

Ion Ratio Lower Upper

128 100

49 142.6 0.0 380.3

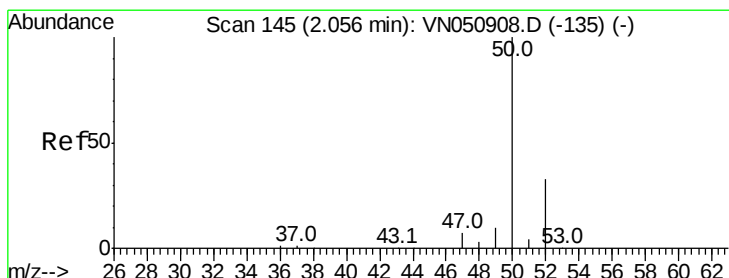
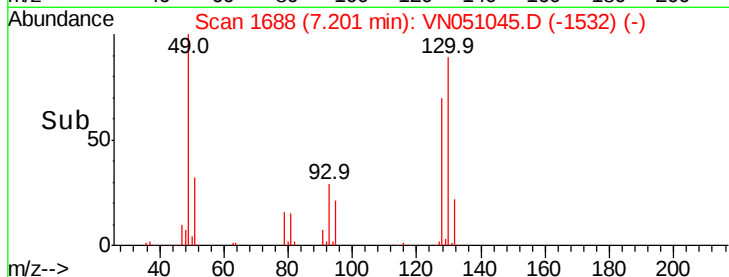
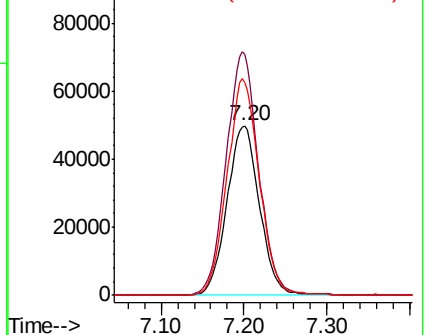
130 126.8 0.0 325.3



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



#3

Chloromethane

Concen: 0.222 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051045.D

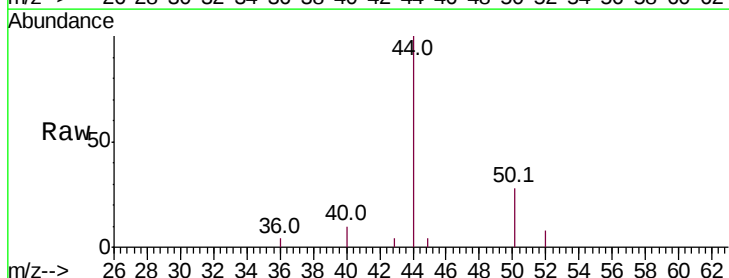
Acq: 7 Sep 2018 10:25

Tgt Ion: 50 Resp: 2211

Ion Ratio Lower Upper

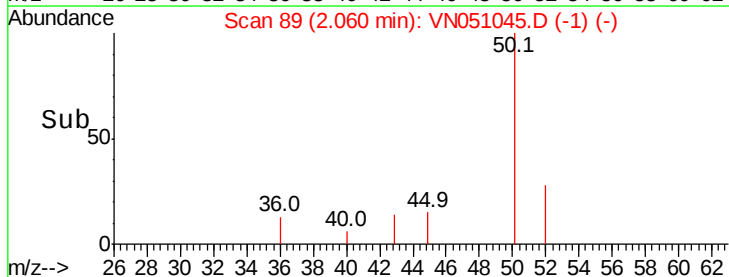
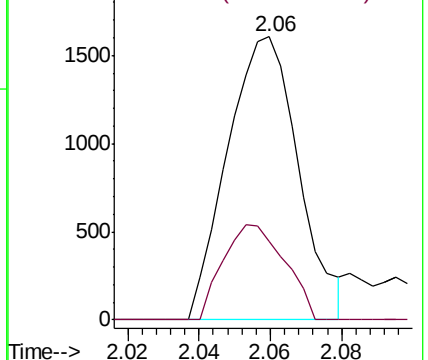
50 100

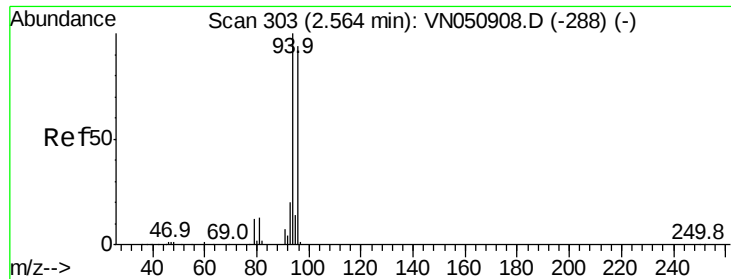
52 27.8 26.2 39.4



Abundance Ion 50.00 (49.70 to 50.70): VN

Ion 52.00 (51.70 to 52.70): VN





#5

Bromomethane

Concen: 0.517 ug/l

RT: 2.56 min Scan# 245

Delta R.T. -0.00 min

Lab File: VN051045.D

Acq: 7 Sep 2018 10:25

Instrument :

MSVOA_N

ClientSampleId :

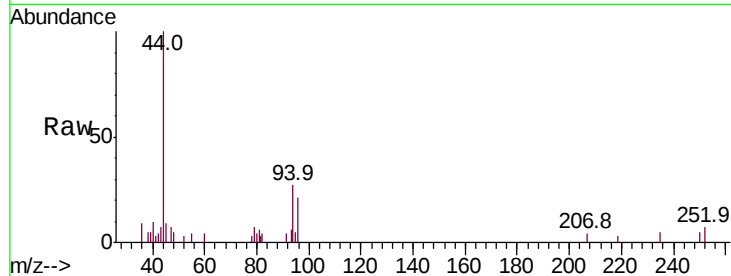
002M-35TH-AVEDL

Tot Ion: 94 Resp: 3105

Ion Ratio Lower Upper

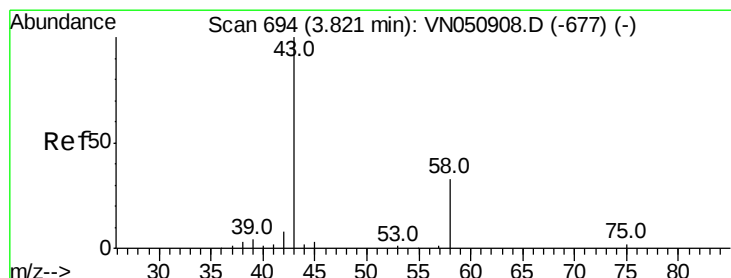
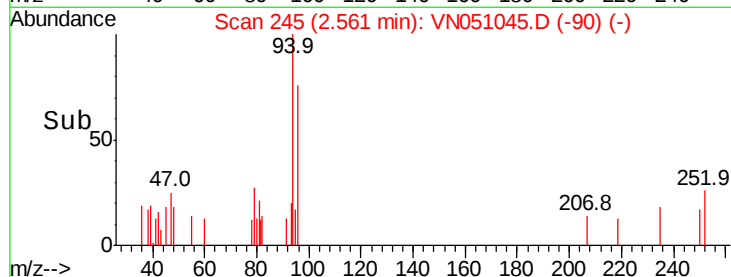
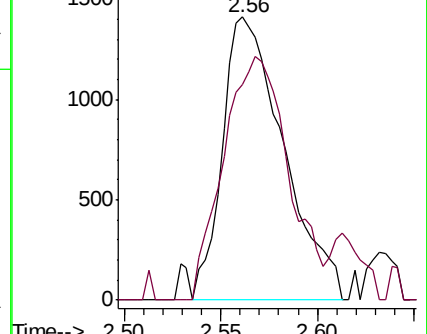
94 100

96 76.3 74.9 112.3



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#15

Acetone

Concen: 179.302 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051045.D

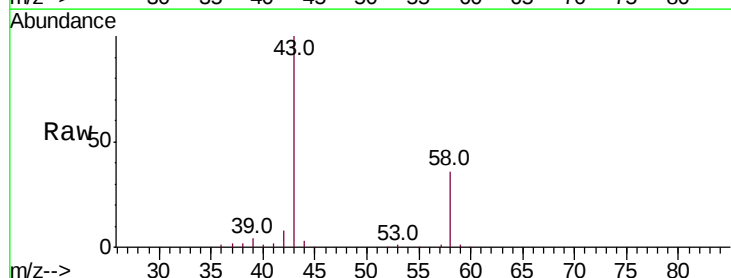
Acq: 7 Sep 2018 10:25

Tgt Ion: 58 Resp: 131746

Ion Ratio Lower Upper

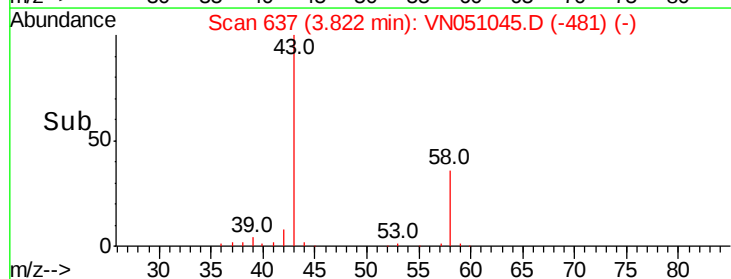
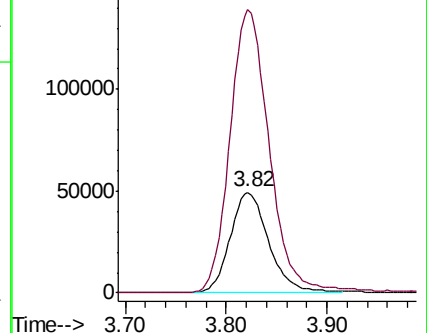
58 100

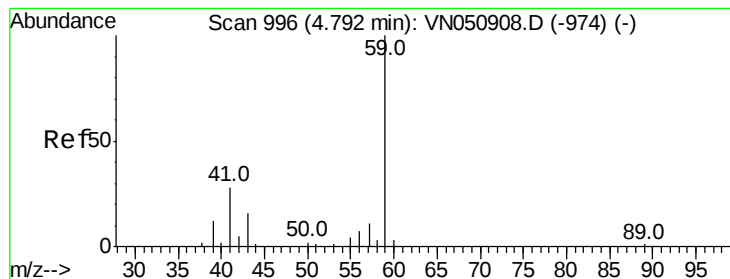
43 280.6 239.4 359.0



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0





#23

tert-Butyl Alcohol

Concen: 0.318 ug/l

RT: 4.77 min Scan# 933

Delta R.T. -0.02 min

Lab File: VN051045.D

Acq: 7 Sep 2018 10:25

Instrument :

MSVOA_N

ClientSampleId :

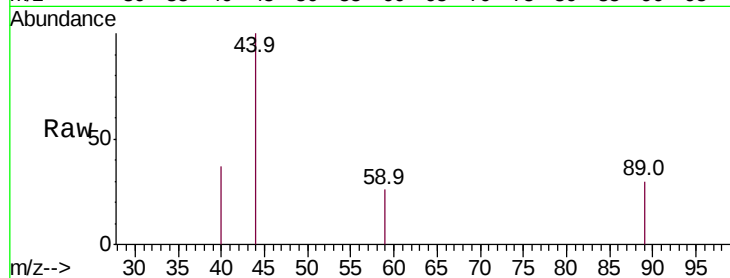
002M-35TH-AVEDL

Tot Ion: 59 Resp: 194

Ion Ratio Lower Upper

59 100

52 0.0 0.1 0.1#



Abundance Ion 59.00 (58.70 to 59.70): VN050908.D (-974) (-)

Ion 52.00 (51.70 to 52.70): VN050908.D (-974) (-)

4.77

250

200

150

100

50

0

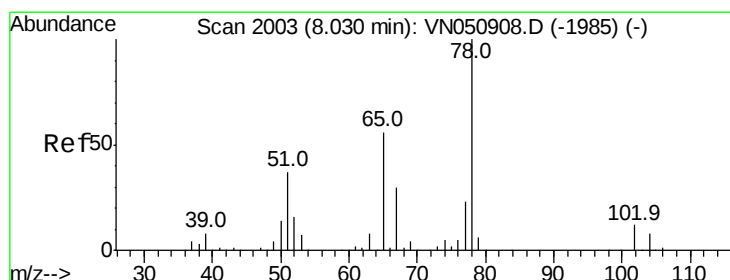
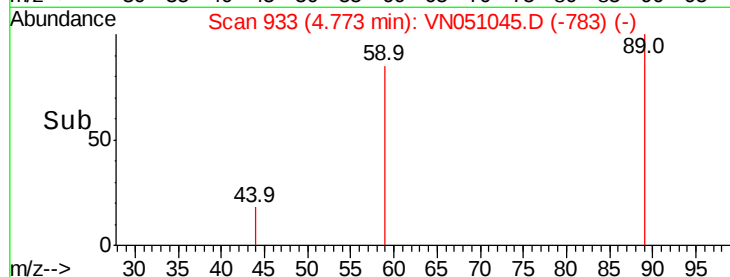
4.76

4.77

4.78

4.79

Time-->



#27

1,2-Dichloroethane-d4

Concen: 29.623 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051045.D

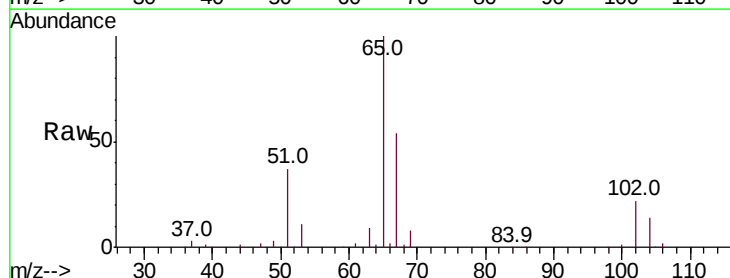
Acq: 7 Sep 2018 10:25

Tgt Ion: 65 Resp: 256944

Ion Ratio Lower Upper

65 100

67 54.8 43.7 65.5



Abundance Ion 65.00 (64.70 to 65.70): VN050908.D (-1985) (-)

Ion 67.00 (66.70 to 67.70): VN050908.D (-1985) (-)

8.03

120000

100000

80000

60000

40000

20000

0

7.95

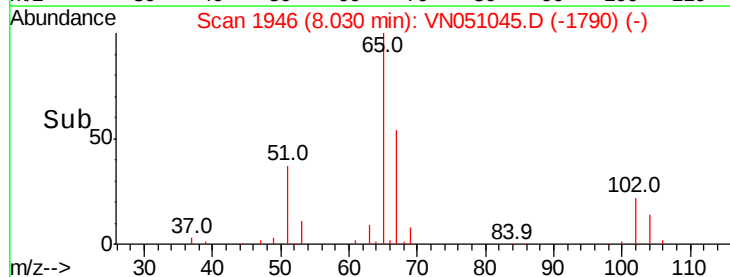
8.00

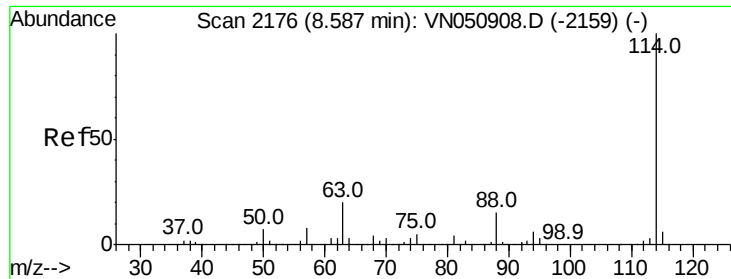
8.05

8.10

8.15

Time-->

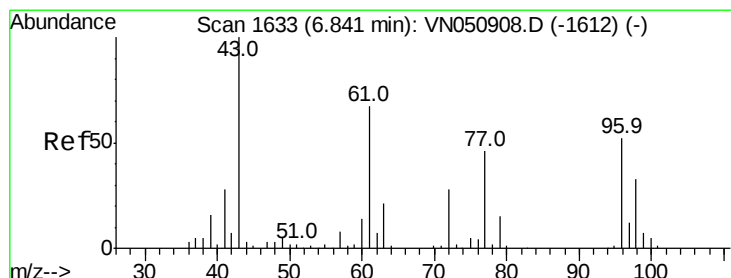
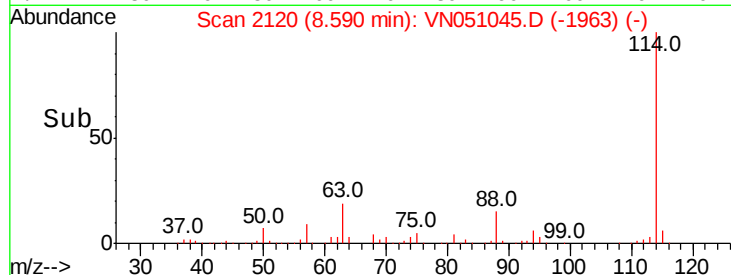
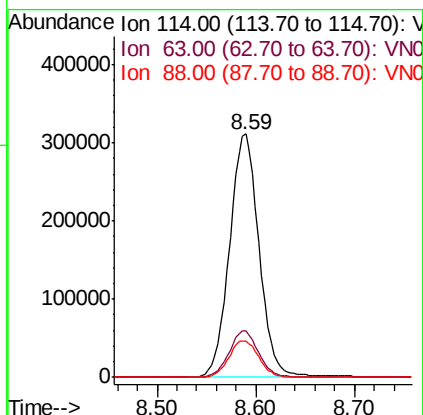
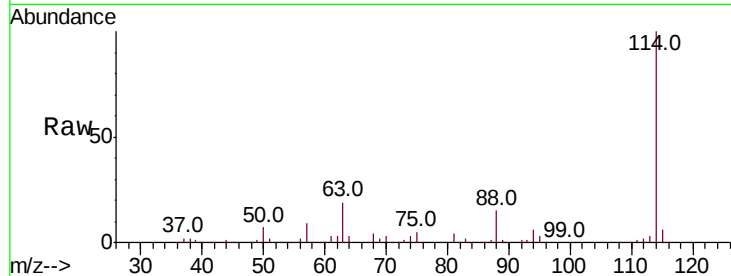




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN051045.D
 Acq: 7 Sep 2018 10:25

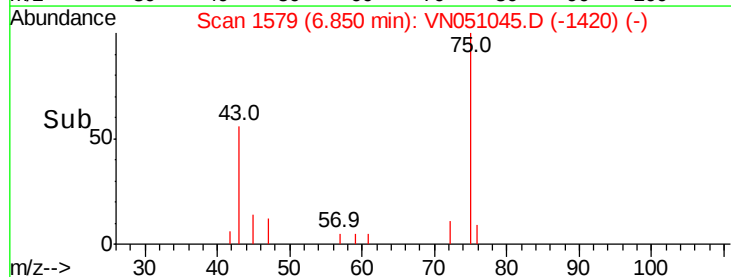
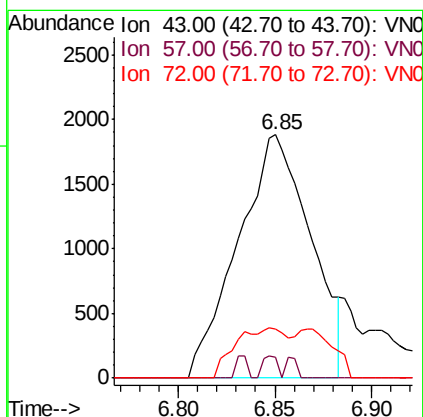
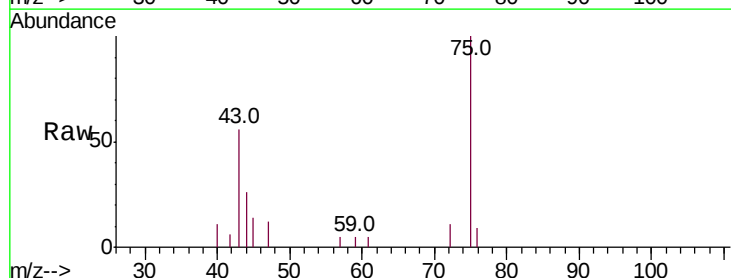
Instrument :
 MSVOA_N
 ClientSampleId :
 002M-35TH-AVEDL

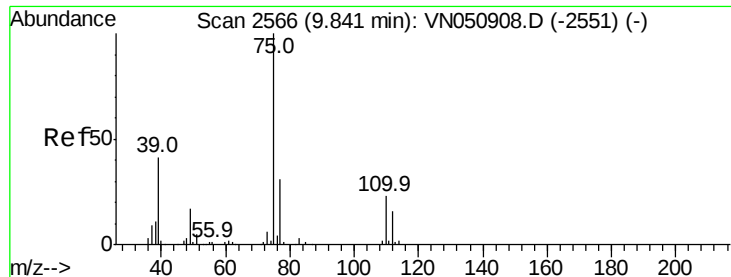
Tot Ion:114 Resp: 650948
 Ion Ratio Lower Upper
 114 100
 63 19.1 15.6 23.4
 88 15.3 12.2 18.4



#30
 2-Butanone
 Concen: 1.639 ug/l
 RT: 6.85 min Scan# 1579
 Delta R.T. 0.01 min
 Lab File: VN051045.D
 Acq: 7 Sep 2018 10:25

Tgt Ion: 43 Resp: 4913
 Ion Ratio Lower Upper
 43 100
 57 1.9 6.9 10.3#
 72 0.0 22.8 34.2#





#49

cis-1,3-Dichloropropene

Concen: 0.870 ug/l

RT: 10.16 min Scan# 2608

Delta R.T. 0.32 min

Lab File: VN051045.D

Acq: 7 Sep 2018 10:25

Instrument :

MSVOA_N

ClientSampleId :

002M-35TH-AVEDL

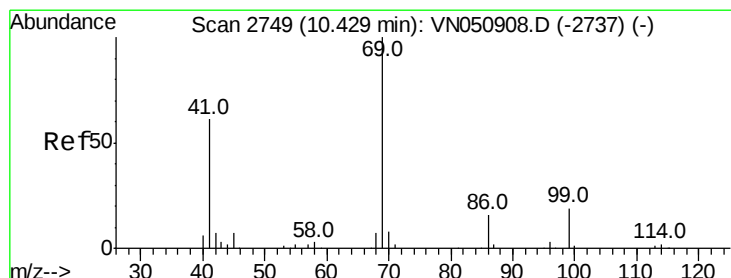
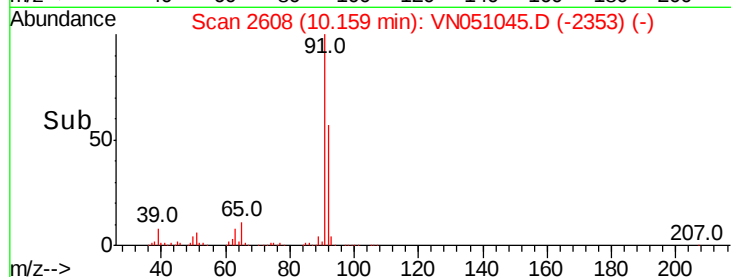
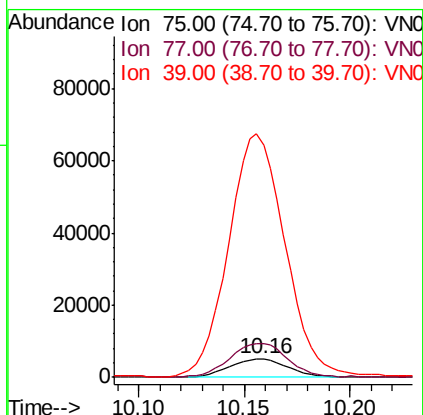
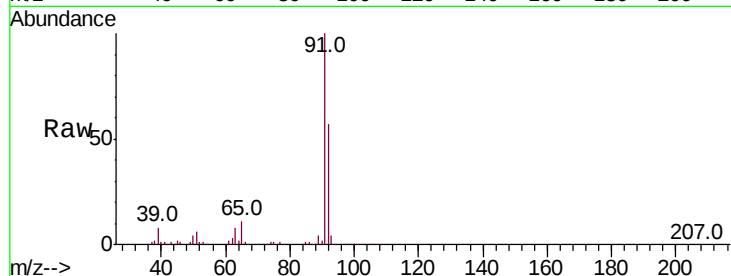
Tot Ion: 75 Resp: 9795

Ion Ratio Lower Upper

75 100

77 172.7 25.0 37.4#

39 1200.1 32.9 49.3#



#51

Ethyl methacrylate

Concen: 0.319 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.33 min

Lab File: VN051045.D

Acq: 7 Sep 2018 10:25

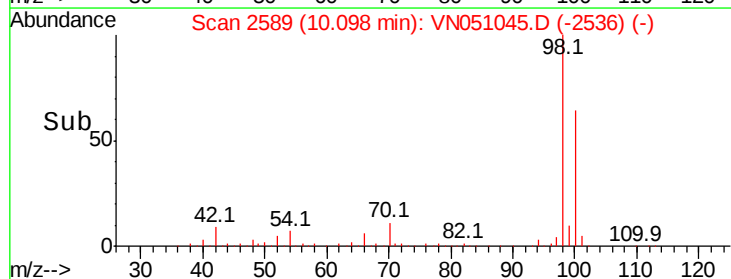
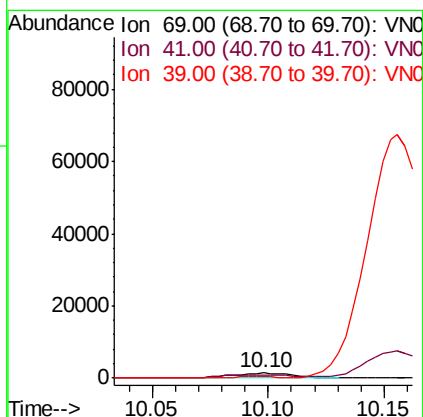
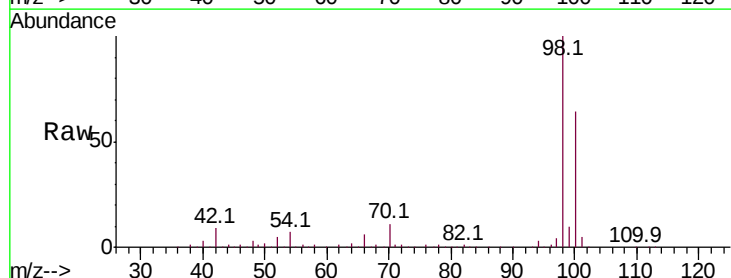
Tgt Ion: 69 Resp: 2688

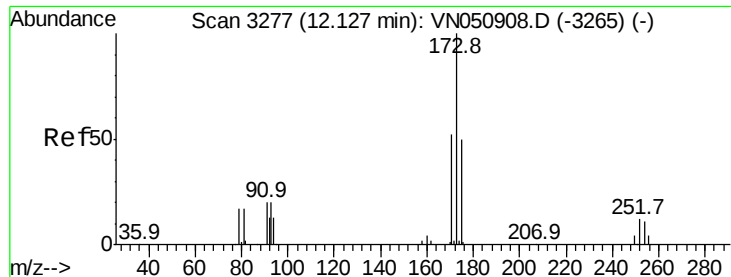
Ion Ratio Lower Upper

69 100

41 70.4 30.5 91.5

39 19.0 15.3 45.8





#56

Bromoform

Concen: 0.218 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN051045.D

Acq: 7 Sep 2018 10:25

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ClientSampleId :

002M-35TH-AVEDL

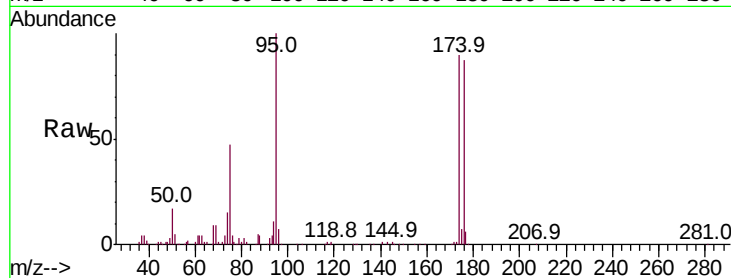
Tot Ion:173 Resp: 1213

Ion Ratio Lower Upper

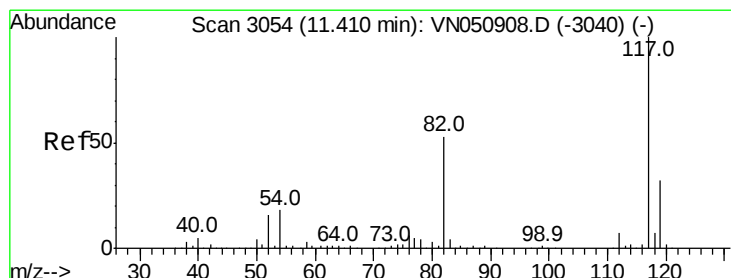
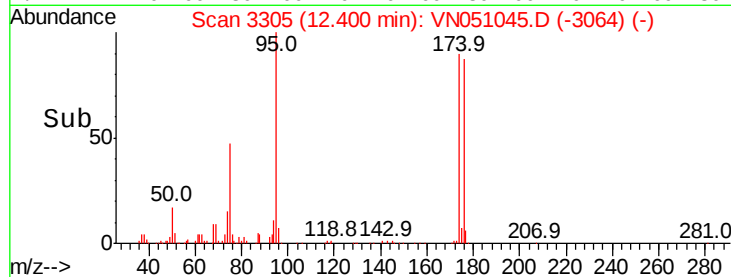
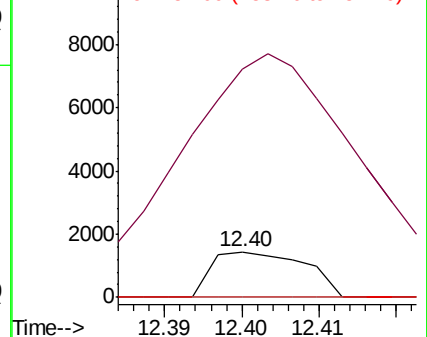
173 100

175 1071.1 39.2 58.8#

254 0.0 9.0 13.6#



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: VN051045.D

Acq: 7 Sep 2018 10:25

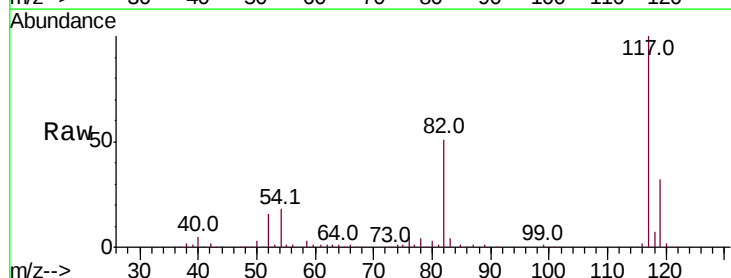
Tgt Ion:117 Resp: 586711

Ion Ratio Lower Upper

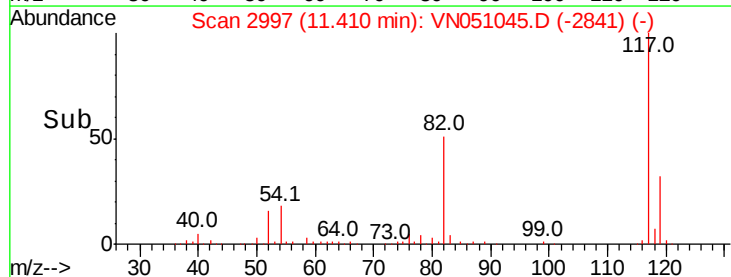
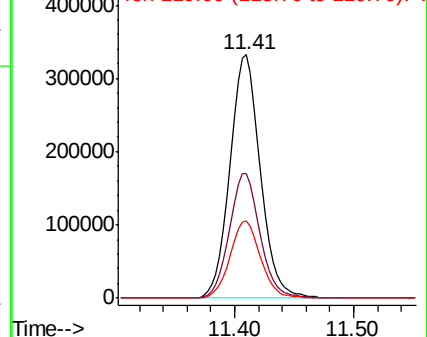
117 100

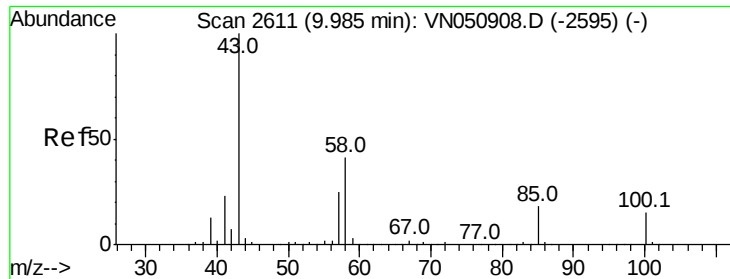
82 51.7 42.6 64.0

119 32.0 25.7 38.5



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: 0.335 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

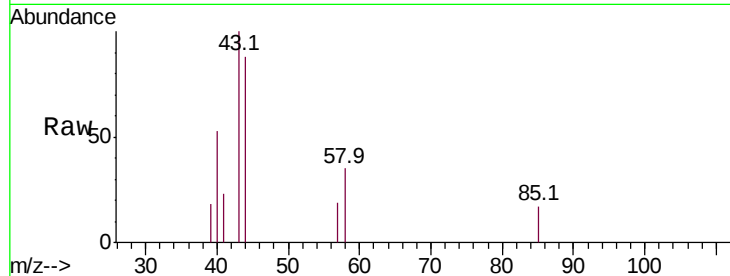
Lab File: VN051045.D

Acq: 7 Sep 2018 10:25

Instrument :
MSVOA_N
ClientSampleId :
002M-35TH-AVEDL

Tot Ion: 43 Resp: 2250

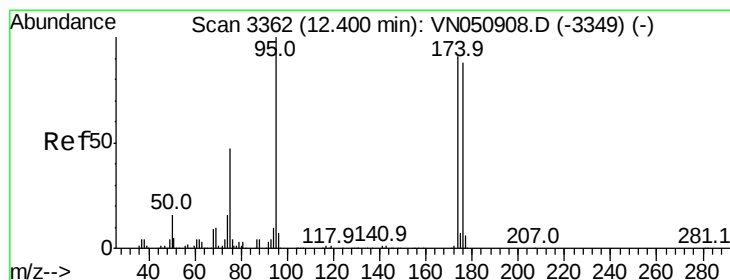
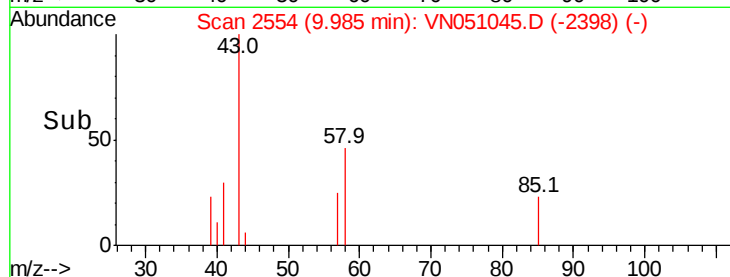
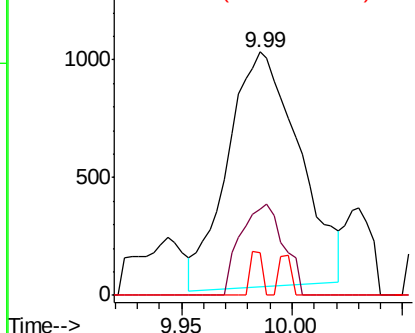
Ion	Ratio	Lower	Upper
43	100		
58	23.3	32.3	48.5#
85	3.2	14.9	22.3#



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: 22.509 ug/l

RT: 12.40 min Scan# 3306

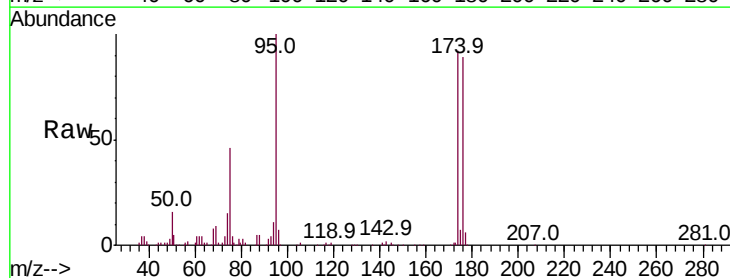
Delta R.T. 0.00 min

Lab File: VN051045.D

Acq: 7 Sep 2018 10:25

Tgt Ion: 95 Resp: 196382

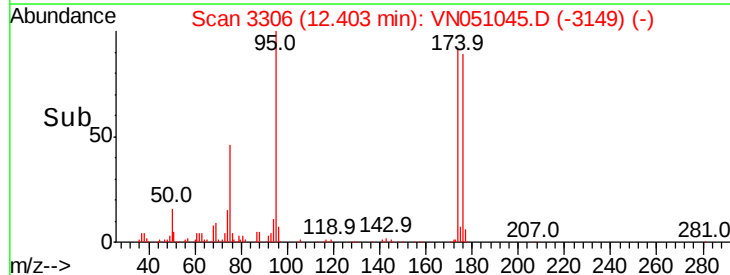
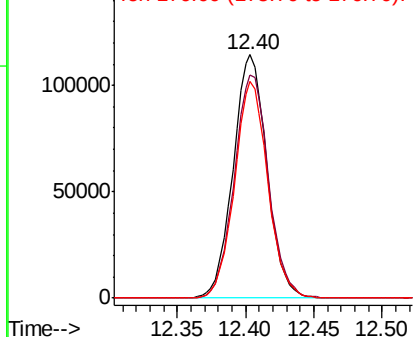
Ion	Ratio	Lower	Upper
95	100		
174	93.6	74.6	112.0
176	88.0	71.5	107.3

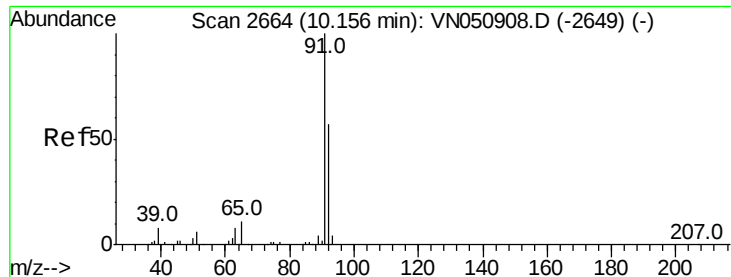


Abundance Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





#62

Toluene

Concen: 49.499 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN051045.D

Acq: 7 Sep 2018 10:25

Instrument :

MSVOA_N

ClientSampleId :

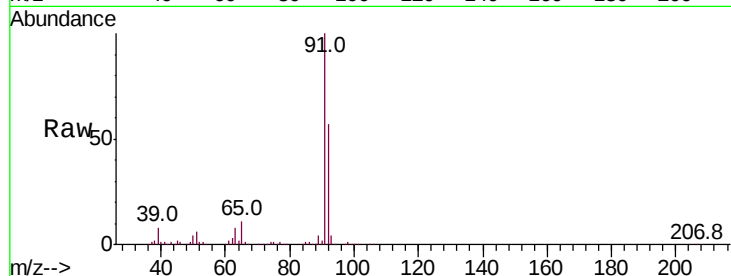
002M-35TH-AVEDL

Tot Ion: 91 Resp: 1620215

Ion Ratio Lower Upper

91 100

92 56.9 45.8 68.8



Abundance Ion 91.00 (90.70 to 91.70): VN050908.D (-2649) (-)

Ion 92.00 (91.70 to 92.70): VN050908.D (-2649) (-)

1000000

800000

600000

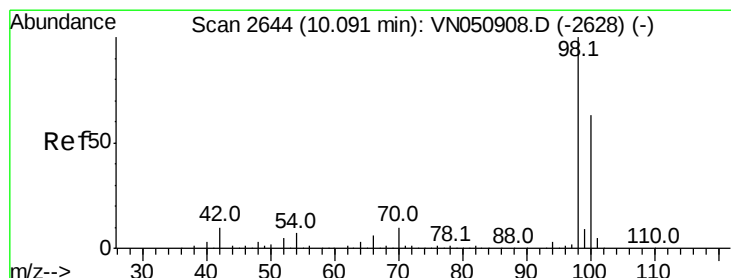
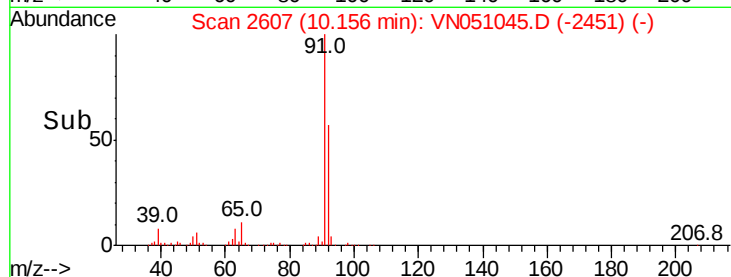
400000

200000

0

10.10 10.20 10.30

Time-->



#63

Toluene-d8

Concen: 28.771 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051045.D

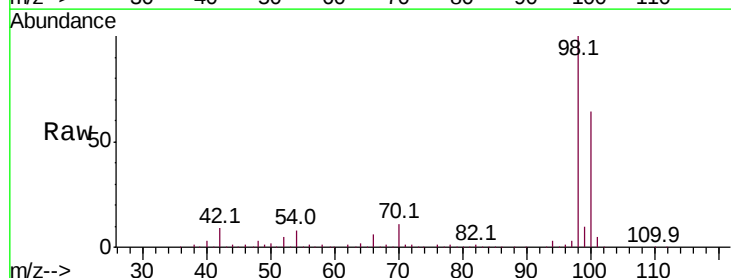
Acq: 7 Sep 2018 10:25

Tgt Ion: 98 Resp: 787192

Ion Ratio Lower Upper

98 100

100 63.7 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VN050908.D (-2628) (-)

Ion 100.00 (99.70 to 100.70): VN050908.D (-2628) (-)

500000

400000

300000

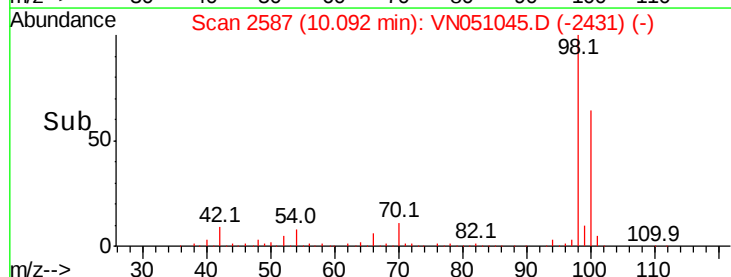
200000

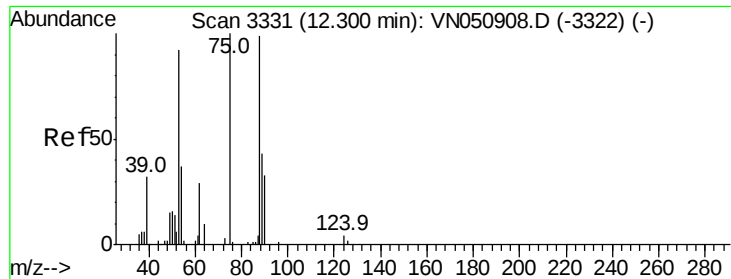
100000

0

10.00 10.10 10.20

Time-->

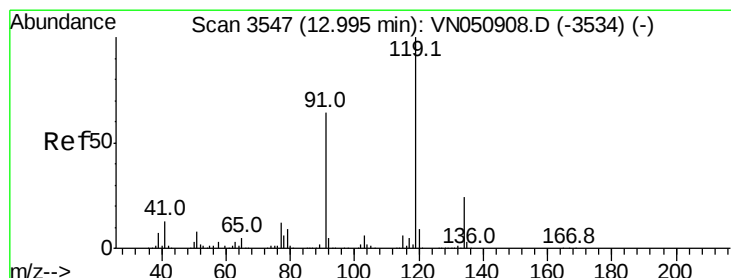
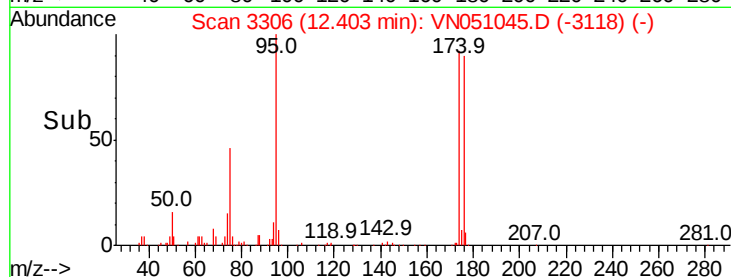
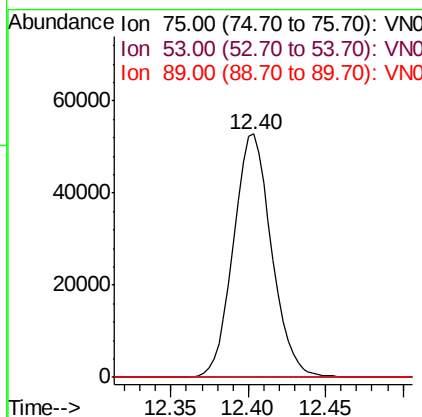
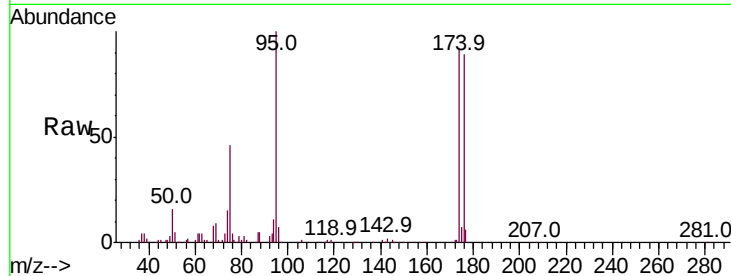




#77
t-1,4-Dichloro-2-butene
Concen: 41.038 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN051045.D
Acq: 7 Sep 2018 10:25

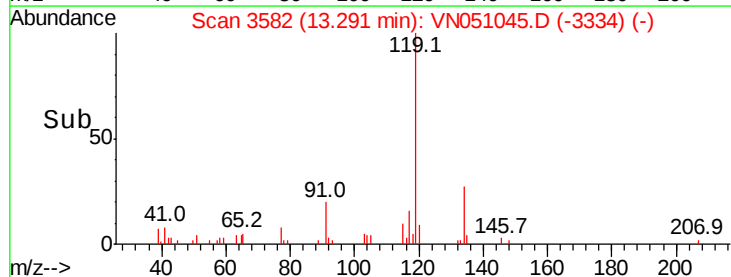
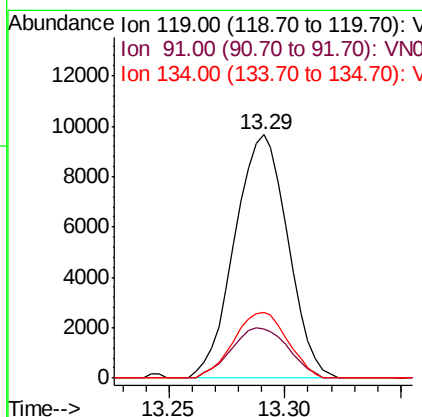
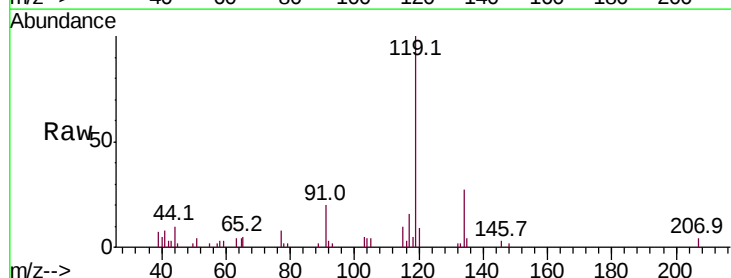
Instrument :
MSVOA_N
ClientSampleId :
002M-35TH-AVEDL

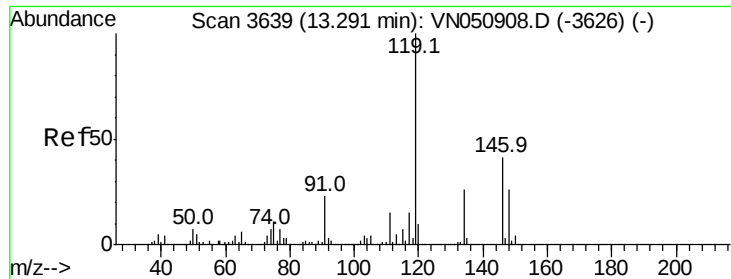
Tot Ion: 75 Resp: 90455
Ion Ratio Lower Upper
75 100
53 0.4 45.5 136.4#
89 0.0 21.9 65.8#



#79
tert-butylbenzene
Concen: 0.654 ug/l
RT: 13.29 min Scan# 3582
Delta R.T. 0.30 min
Lab File: VN051045.D
Acq: 7 Sep 2018 10:25

Tgt Ion: 119 Resp: 15380
Ion Ratio Lower Upper
119 100
91 22.2 0.0 125.6
134 27.3 0.0 48.4

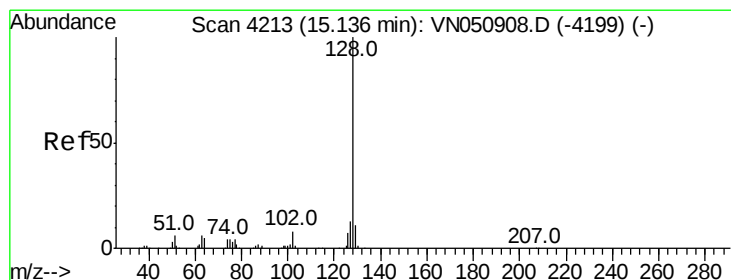
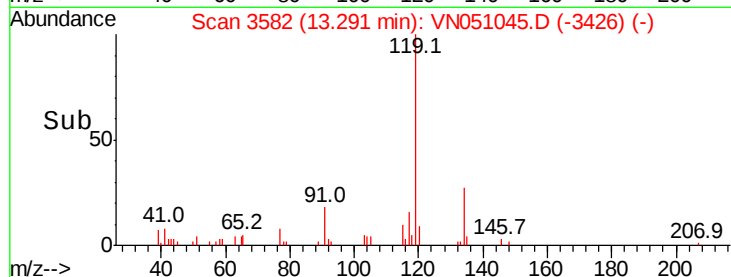
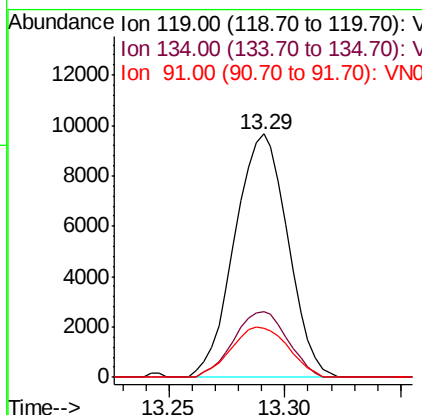
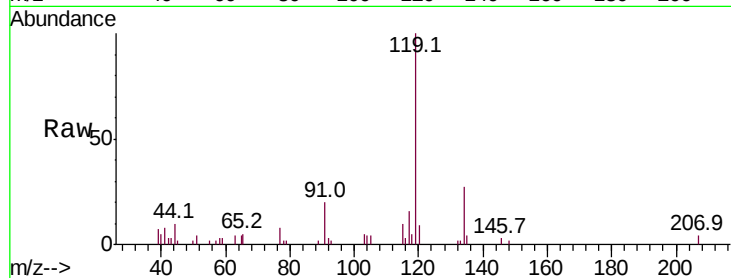




#82
 p-Isopropyltoluene
 Concen: 0.579 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN051045.D
 Acq: 7 Sep 2018 10:25

Instrument :
 MSVOA_N
 ClientSampleId :
 002M-35TH-AVEDL

Tot Ion:119 Resp: 15380
 Ion Ratio Lower Upper
 119 100
 134 27.3 0.0 53.2
 91 22.2 0.0 46.0



#91
 Naphthalene
 Concen: 8.624 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. -0.00 min
 Lab File: VN051045.D
 Acq: 7 Sep 2018 10:25

Tgt Ion:128 Resp: 921
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.6 16.0#
 129 0.0 8.7 13.1#

