

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091818\
 Data File : VN051292.D
 Acq On : 18 Sep 2018 12:58
 Operator : MD\SY
 Sample : J4932-02 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 18 14:50:27 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	101683	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	491703	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	403572	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	184014	28.36	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	94.53%
60) 4-Bromofluorobenzene	12.40	95	121269	20.21	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	67.37%
63) Toluene-d8	10.09	98	570154	30.30	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.00%

Target Compounds

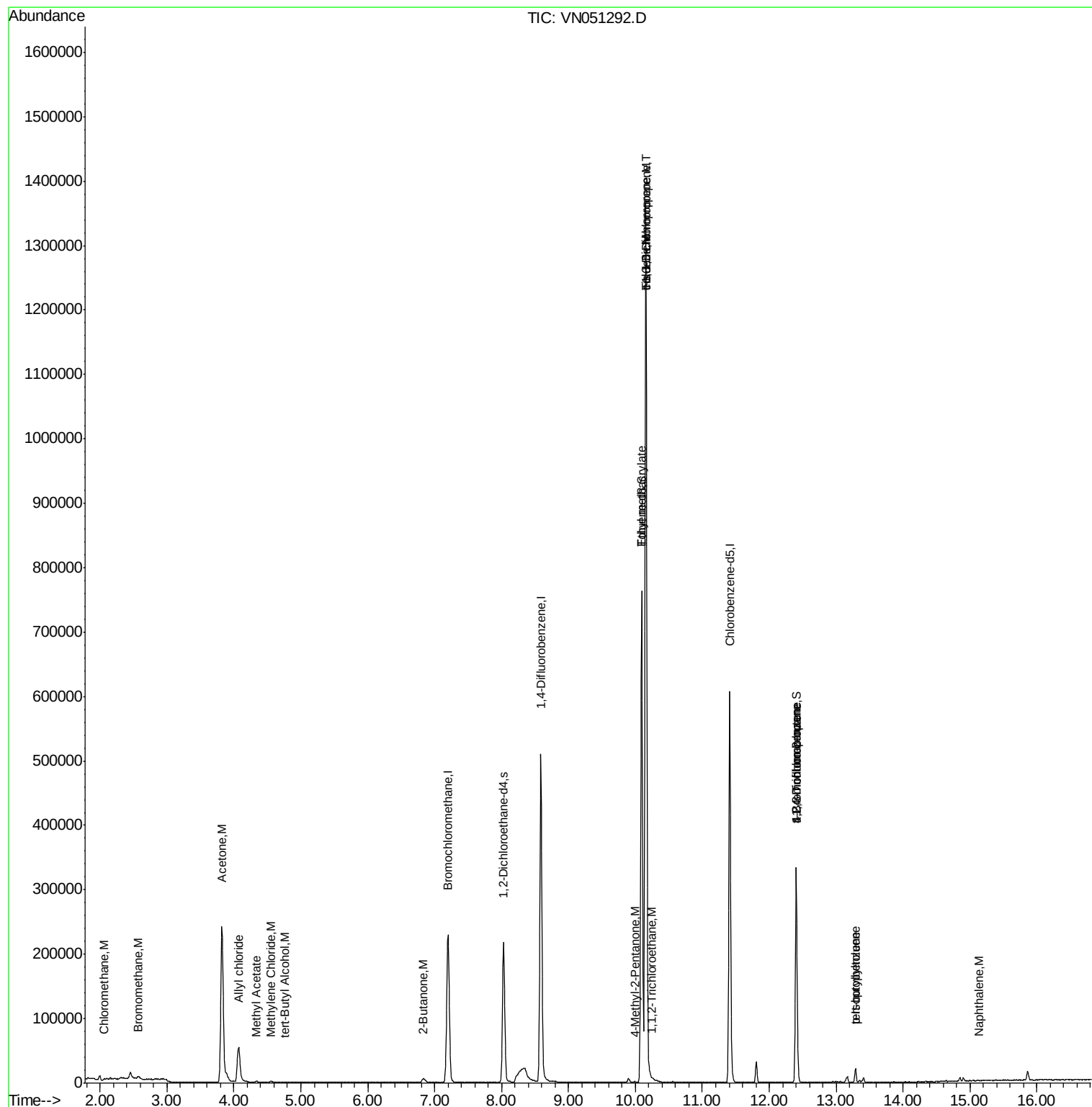
					Ovalue
3) Chloromethane	2.06	50	1628	0.218	ug/l 97
5) Bromomethane	2.57	94	1882	0.419	ug/l 88
12) Methyl Acetate	4.34	43	1423	0.224	ug/l # 53
15) Acetone	3.82	58	142560	259.350	ug/l 89
17) Allyl chloride	4.06	41	3287	0.380	ug/l 73
18) Methylene Chloride	4.55	84	1291	0.200	ug/l # 49
23) tert-Butyl Alcohol	4.77	59	170	0.372	ug/l # 100
30) 2-Butanone	6.84	43	1391	0.614	ug/l # 62
48) t-1,3-Dichloropropene	10.16	75	6915	0.934	ug/l # 1
49) cis-1,3-Dichloropropene	10.16	75	6915	0.813	ug/l # 1
50) 1,1,2-Trichloroethane	10.26	97	1609	0.309	ug/l # 15
51) Ethyl methacrylate	10.09	69	1897	0.298	ug/l 83
58) 4-Methyl-2-Pentanone	9.99	43	1847	0.400	ug/l # 65
62) Toluene	10.16	91	1109014	49.257	ug/l 100
72) 1,2,3-Trichloropropane	12.40	75	56013	10.525	ug/l 1
77) t-1,4-Dichloro-2-butene	12.40	75	56013	36.944	ug/l # 13
79) tert-butylbenzene	13.29	119	11863	0.734	ug/l 65
82) p-Isopropyltoluene	13.29	119	11863	0.650	ug/l 93
91) Naphthalene	15.13	128	286	8.599	ug/l # 69

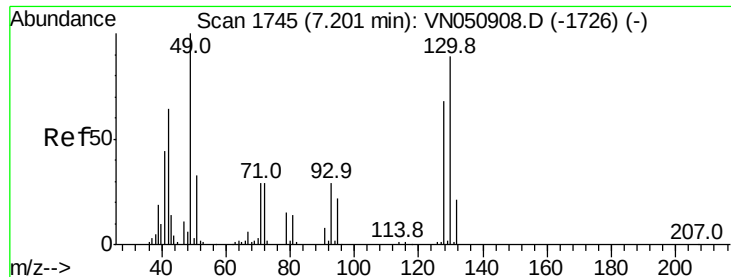
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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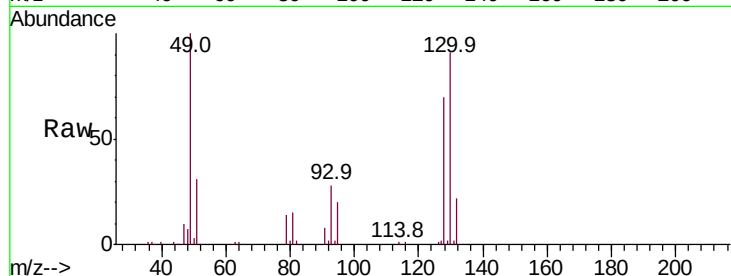




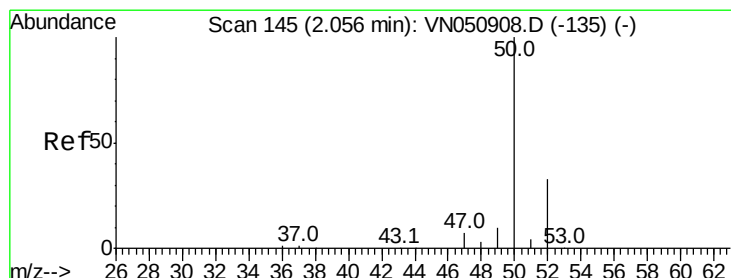
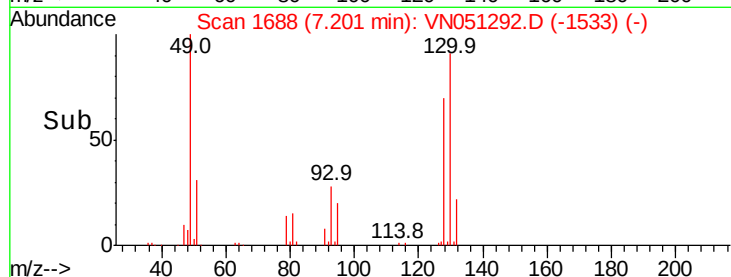
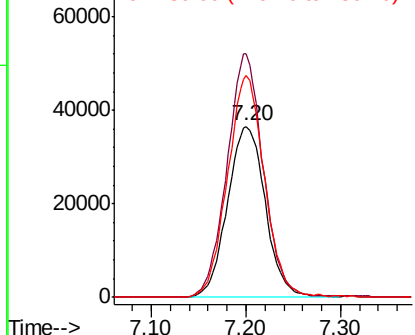
#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.20 min Scan# 1688
 Delta R.T. -0.00 min
 Lab File: VN051292.D
 Acq: 18 Sep 2018 12:58

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:128 Resp: 101683
 Ion Ratio Lower Upper
 128 100
 49 136.5 0.0 380.3
 130 126.2 0.0 325.3

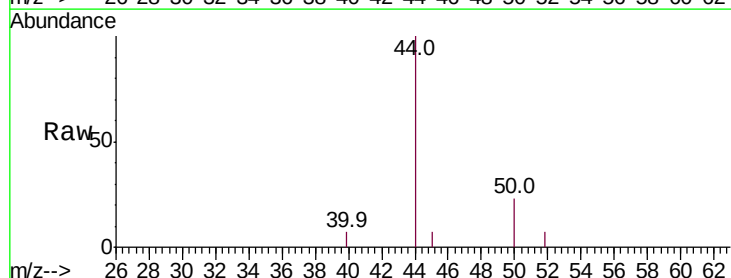


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VN
 Ion 130.00 (129.70 to 130.70): V

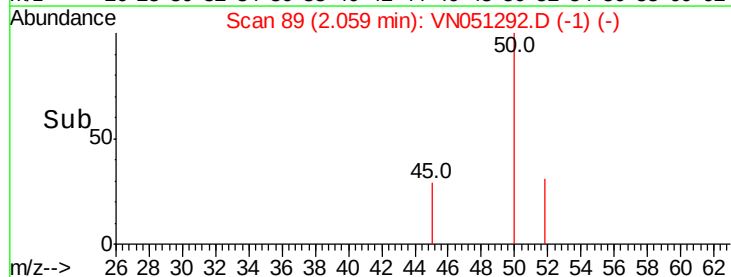
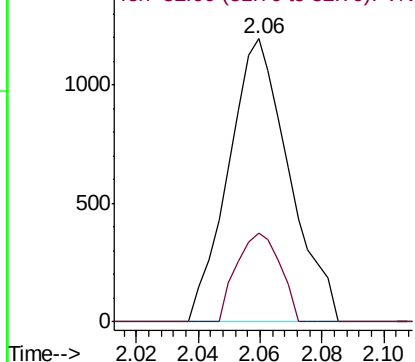


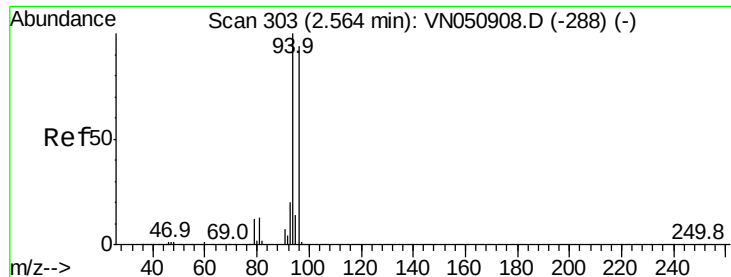
#3
 Chloromethane
 Concen: 0.218 ug/l
 RT: 2.06 min Scan# 89
 Delta R.T. 0.00 min
 Lab File: VN051292.D
 Acq: 18 Sep 2018 12:58

Tgt Ion: 50 Resp: 1628
 Ion Ratio Lower Upper
 50 100
 52 31.3 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: 0.419 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.01 min

Lab File: VN051292.D

Acq: 18 Sep 2018 12:58

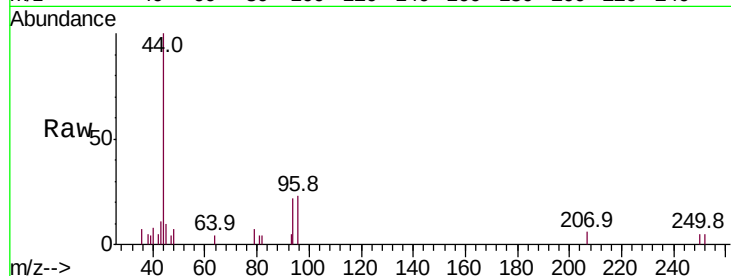
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 94 Resp: 1882

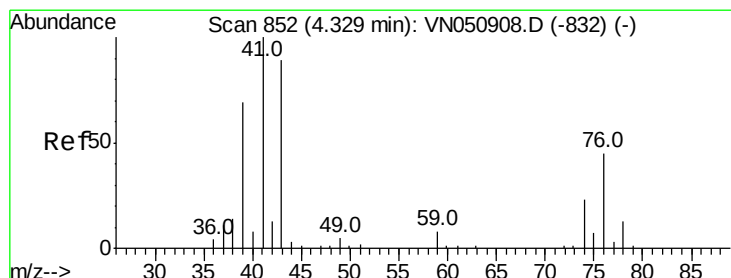
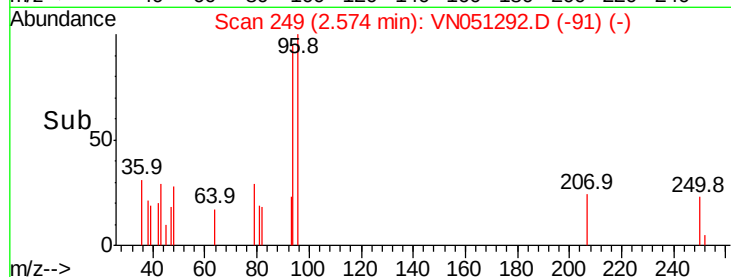
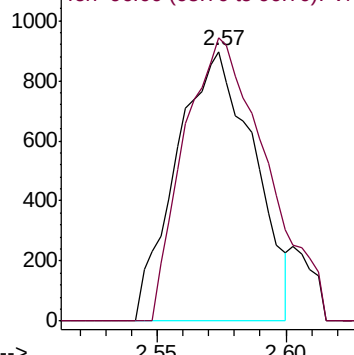
Ion Ratio Lower Upper

94 100

96 105.0 74.9 112.3



Abundance Ion 94.00 (93.70 to 94.70): VN0
Ion 96.00 (95.70 to 96.70): VN0



#12

Methyl Acetate

Concen: 0.224 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN051292.D

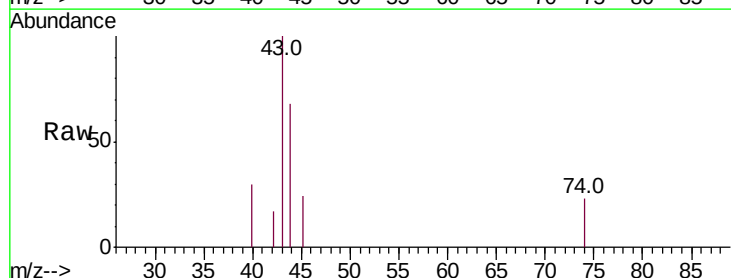
Acq: 18 Sep 2018 12:58

Tgt Ion: 43 Resp: 1423

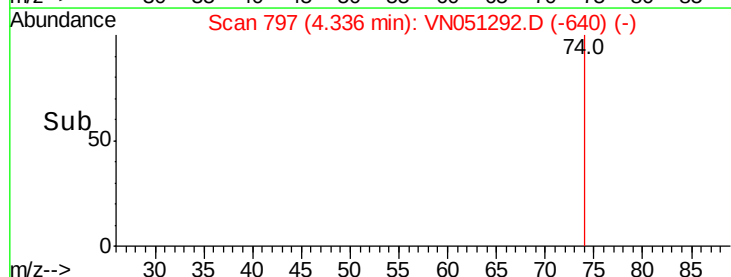
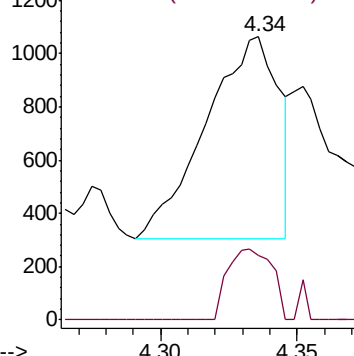
Ion Ratio Lower Upper

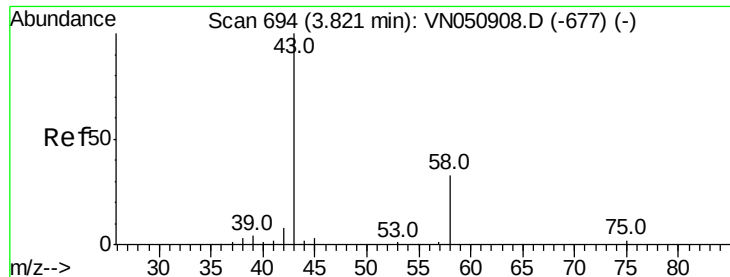
43 100

74 49.5 20.6 31.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 74.00 (73.70 to 74.70): VN0





#15

Acetone

Concen: 259.350 ug/l

RT: 3.82 min Scan# 637

Delta R.T. -0.00 min

Lab File: VN051292.D

Acq: 18 Sep 2018 12:58

Instrument :

MSVOA_N

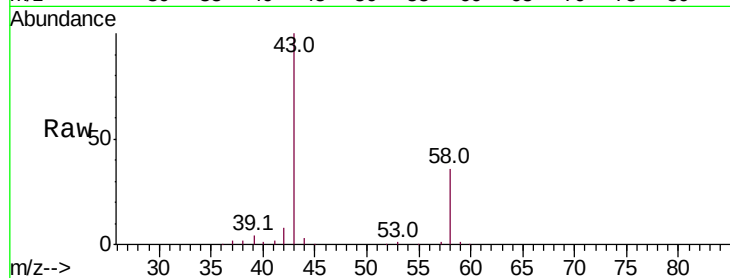
ClientSampled :

Tot Ion: 58 Resp: 142560

Ion Ratio Lower Upper

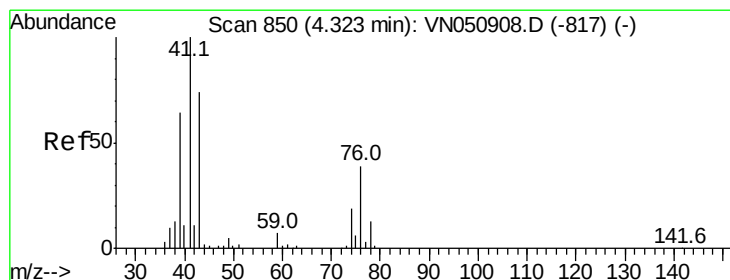
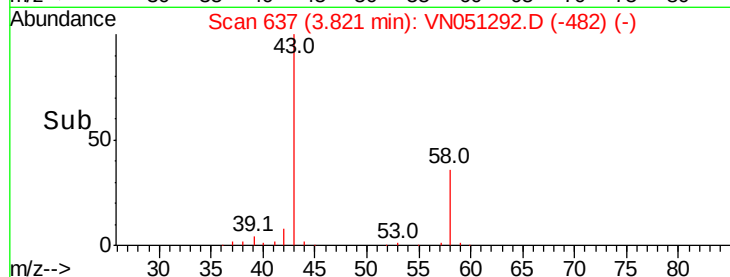
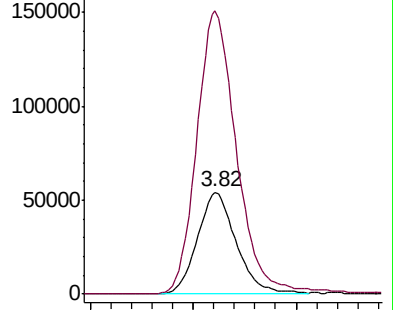
58 100

43 277.1 239.4 359.0



Abundance Ion 58.00 (57.70 to 58.70): VN051292.D (-637) (-)

Ion 43.00 (42.70 to 43.70): VN051292.D (-637) (-)



#17

Allyl chloride

Concen: 0.380 ug/l

RT: 4.06 min Scan# 711

Delta R.T. -0.26 min

Lab File: VN051292.D

Acq: 18 Sep 2018 12:58

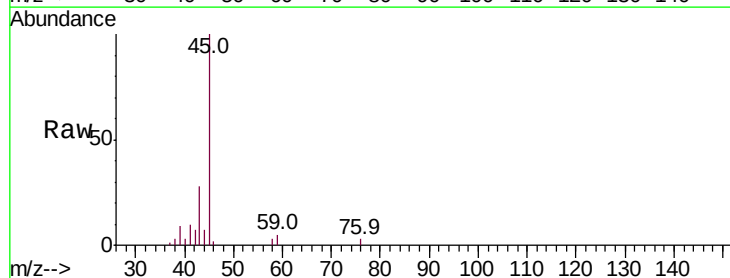
Tgt Ion: 41 Resp: 3287

Ion Ratio Lower Upper

41 100

39 85.7 32.2 96.6

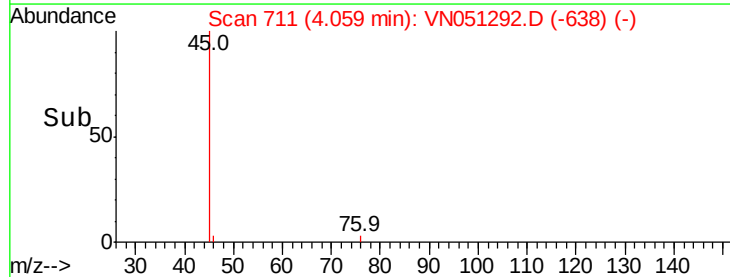
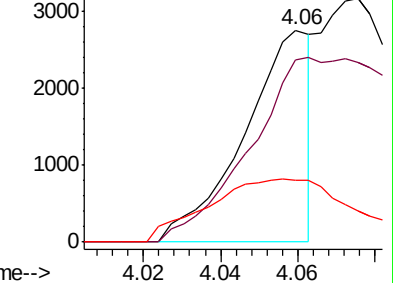
76 22.0 19.6 58.7

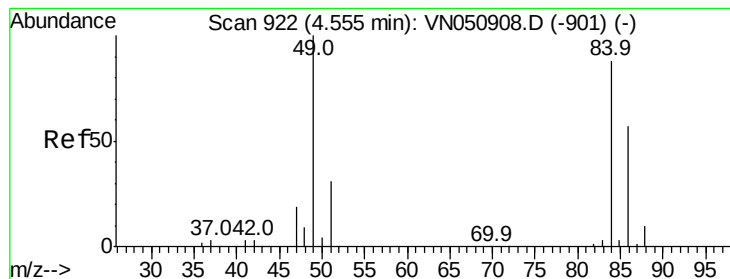


Abundance Ion 41.00 (40.70 to 41.70): VN051292.D (-638) (-)

Ion 39.00 (38.70 to 39.70): VN051292.D (-638) (-)

Ion 76.00 (75.70 to 76.70): VN051292.D (-638) (-)





#18

Methvlene Chloride

Concen: 0.200 ug/l

RT: 4.55 min Scan# 863

Delta R.T. -0.01 min

Lab File: VN051292.D

Acq: 18 Sep 2018 12:58

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 84 Resp: 1291

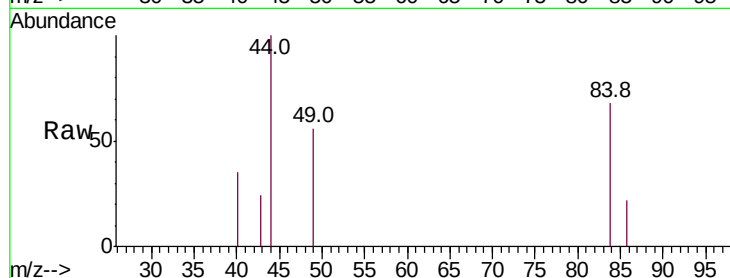
Ion Ratio Lower Upper

84 100

49 54.9 90.6 135.8#

51 0.0 28.4 42.6#

86 33.2 51.6 77.4#

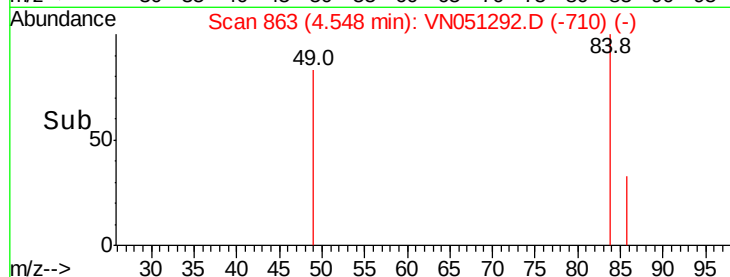
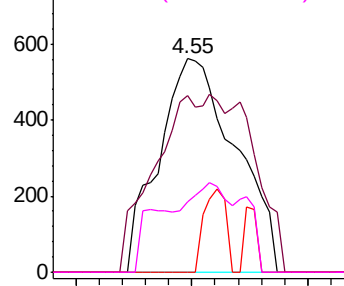


Abundance Ion 84.00 (83.70 to 84.70): VN0

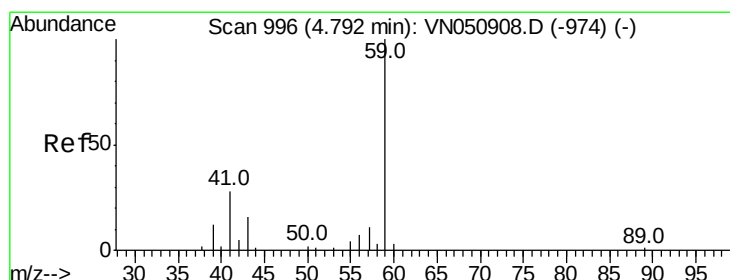
Ion 49.00 (48.70 to 49.70): VN0

Ion 51.00 (50.70 to 51.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



Time-->



#23

tert-Butyl Alcohol

Concen: 0.372 ug/l

RT: 4.77 min Scan# 933

Delta R.T. -0.02 min

Lab File: VN051292.D

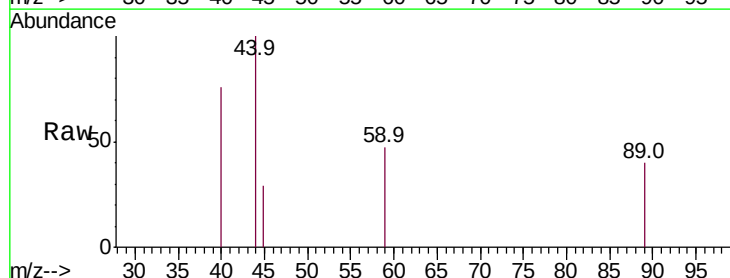
Acq: 18 Sep 2018 12:58

Tgt Ion: 59 Resp: 170

Ion Ratio Lower Upper

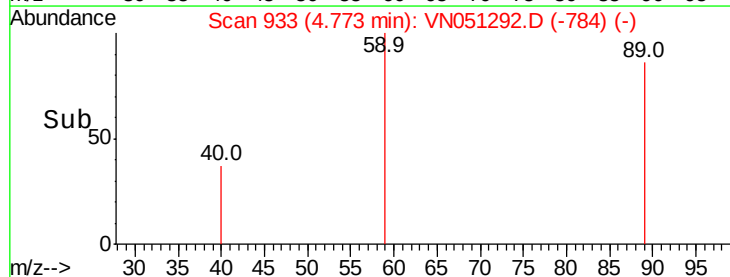
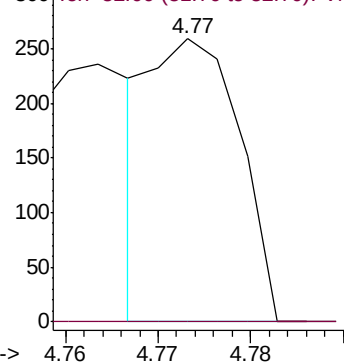
59 100

52 0.0 0.1 0.1#

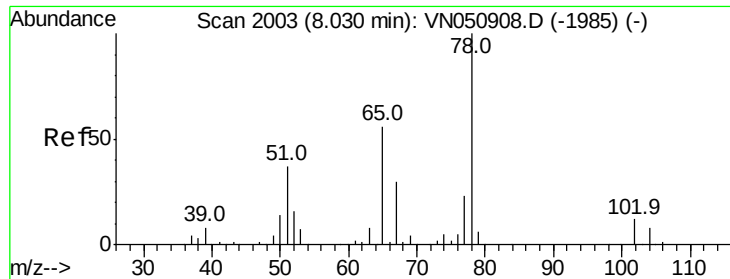


Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



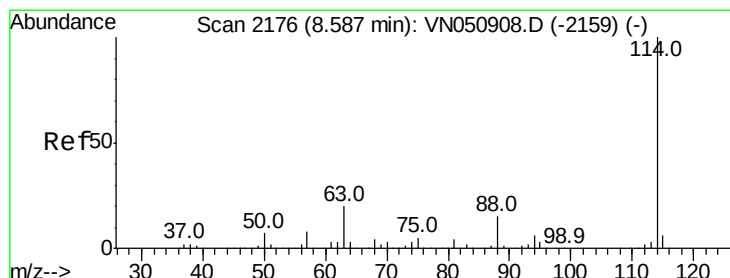
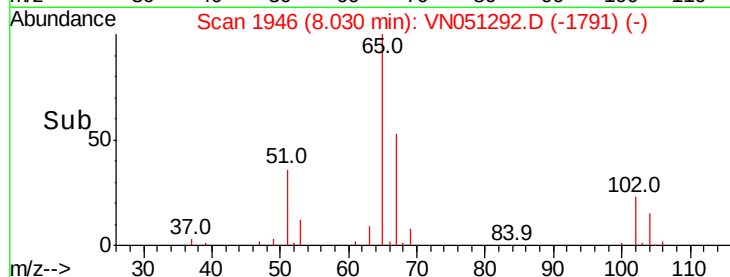
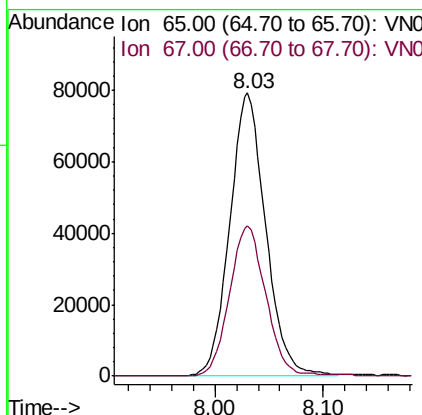
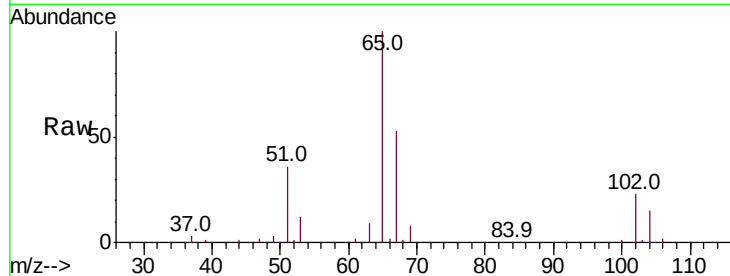
Time-->



#27
 1,2-Dichloroethane-d4
 Concen: 28.359 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. -0.00 min
 Lab File: VN051292.D
 Acq: 18 Sep 2018 12:58

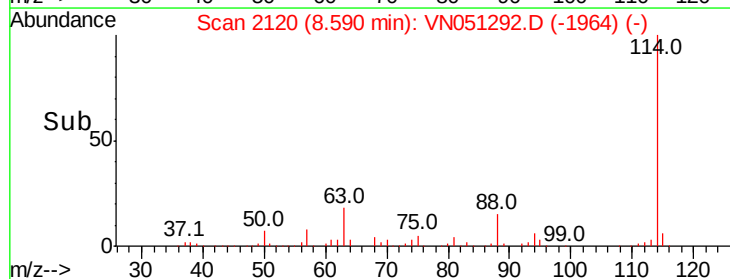
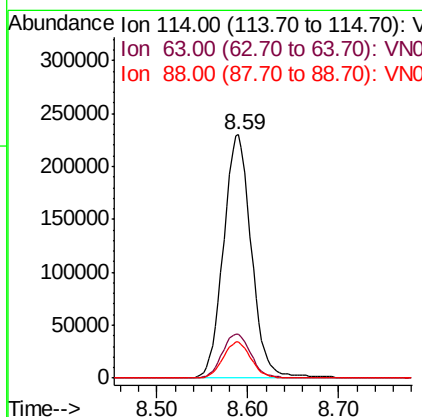
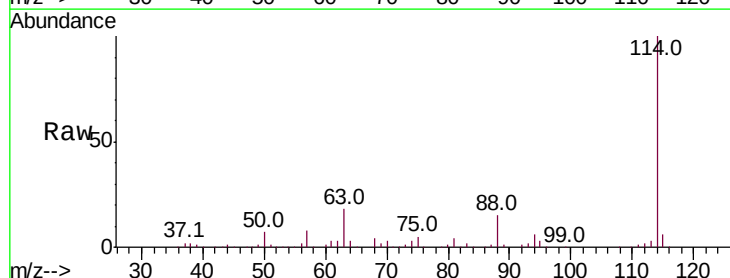
Instrument :
 MSVOA_N
 ClientSampled :

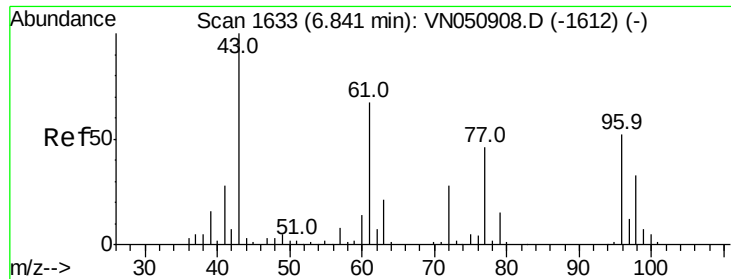
Tot Ion: 65 Resp: 184014
 Ion Ratio Lower Upper
 65 100
 67 53.5 43.7 65.5



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN051292.D
 Acq: 18 Sep 2018 12:58

Tgt Ion:114 Resp: 491703
 Ion Ratio Lower Upper
 114 100
 63 18.6 15.6 23.4
 88 14.8 12.2 18.4

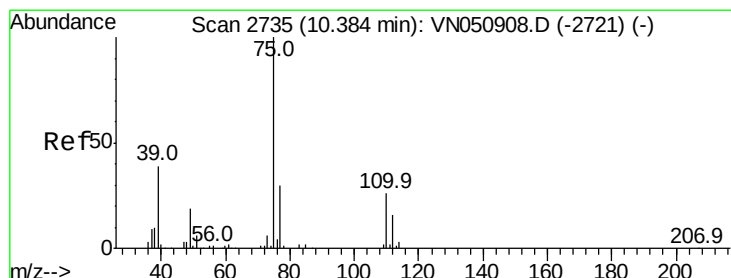
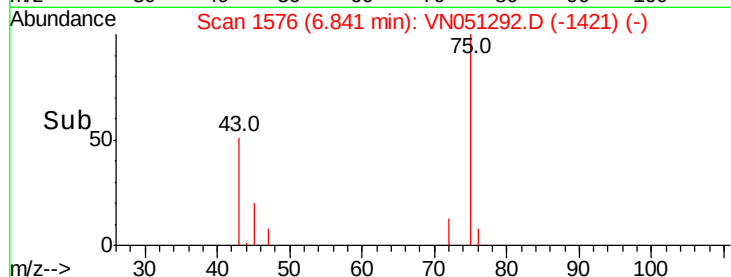
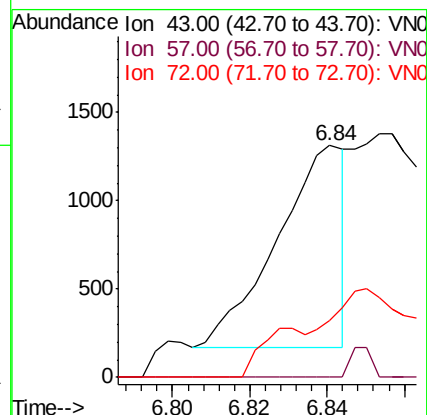
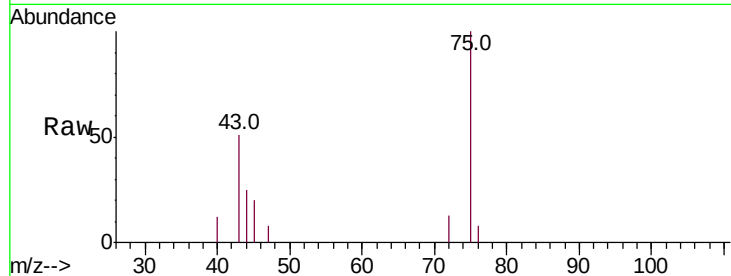




#30
2-Butanone
Concen: 0.614 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. -0.00 min
Lab File: VN051292.D
Acq: 18 Sep 2018 12:58

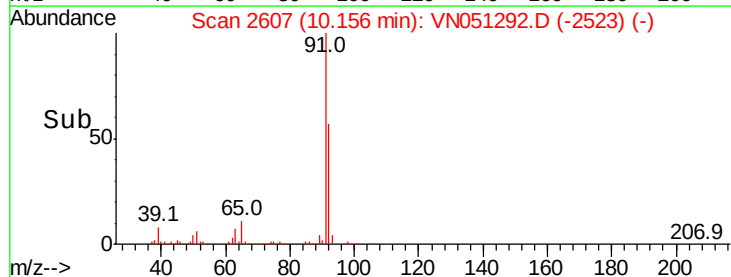
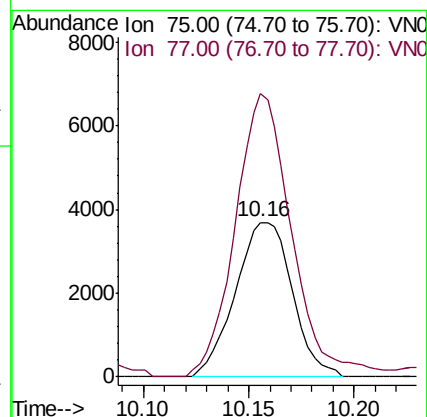
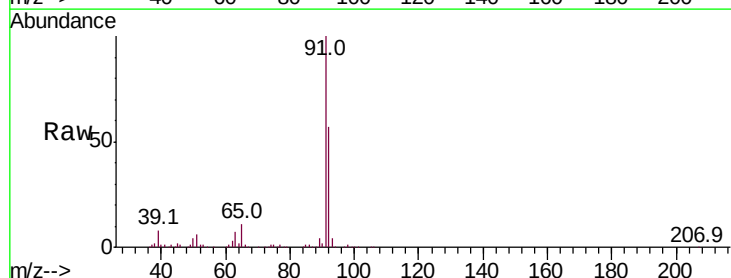
Instrument :
MSVOA_N
ClientSampleId :

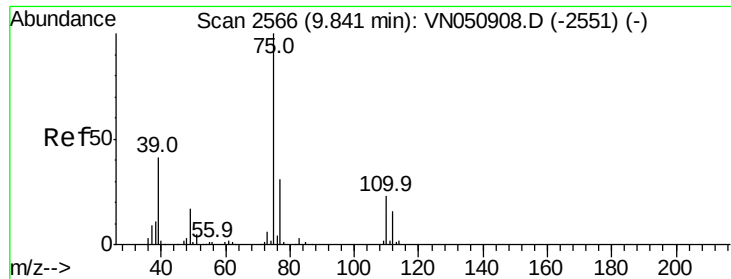
Tot Ion: 43 Resp: 1391
Ion Ratio Lower Upper
43 100
57 4.7 6.9 10.3#
72 53.2 22.8 34.2#



#48
t-1,3-Dichloropropene
Concen: 0.934 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. -0.23 min
Lab File: VN051292.D
Acq: 18 Sep 2018 12:58

Tgt Ion: 75 Resp: 6915
Ion Ratio Lower Upper
75 100
77 179.0 24.8 37.2#





#49

cis-1,3-Dichloropropene

Concen: 0.813 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.32 min

Lab File: VN051292.D

Acq: 18 Sep 2018 12:58

Instrument :

MSVOA_N

ClientSampleId :

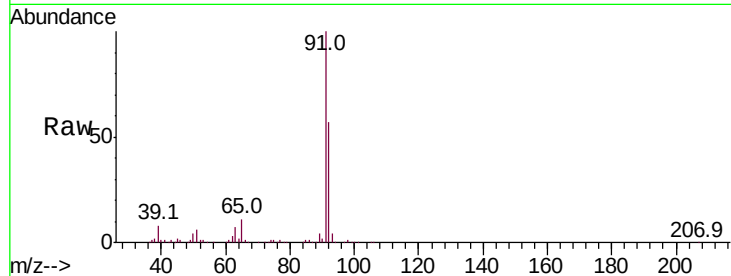
Tot Ion: 75 Resp: 6915

Ion Ratio Lower Upper

75 100

77 179.0 25.0 37.4#

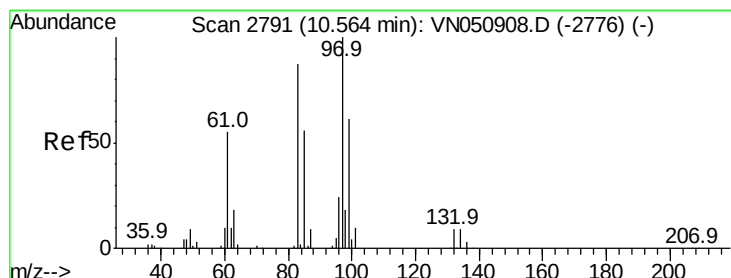
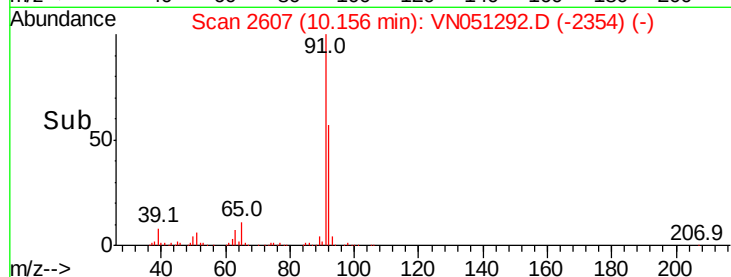
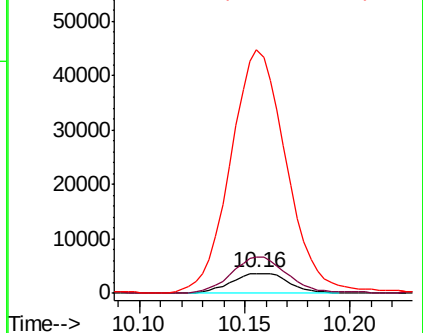
39 1176.9 32.9 49.3#



Abundance Ion 75.00 (74.70 to 75.70): VN051292.D (-2607) (-)

Ion 77.00 (76.70 to 77.70): VN051292.D (-2607) (-)

Ion 39.00 (38.70 to 39.70): VN051292.D (-2607) (-)



#50

1,1,2-Trichloroethane

Concen: 0.309 ug/l

RT: 10.26 min Scan# 2639

Delta R.T. -0.31 min

Lab File: VN051292.D

Acq: 18 Sep 2018 12:58

Tgt Ion: 97 Resp: 1609

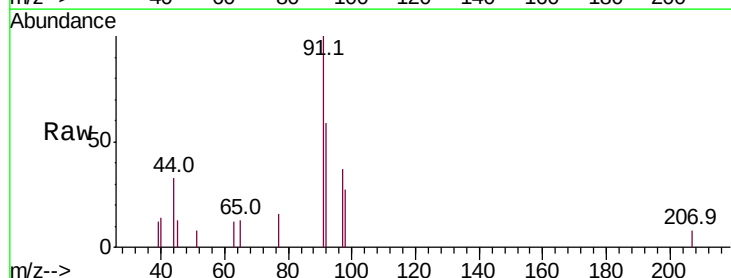
Ion Ratio Lower Upper

97 100

83 0.0 69.8 104.6#

85 0.0 45.0 67.6#

99 0.0 49.1 73.7#

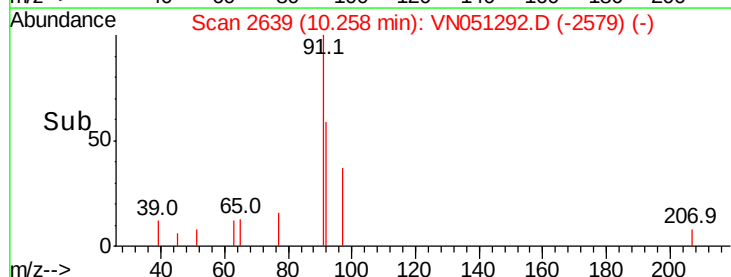
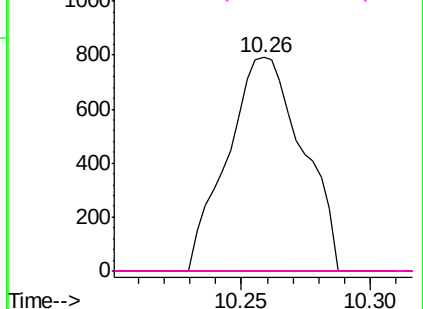


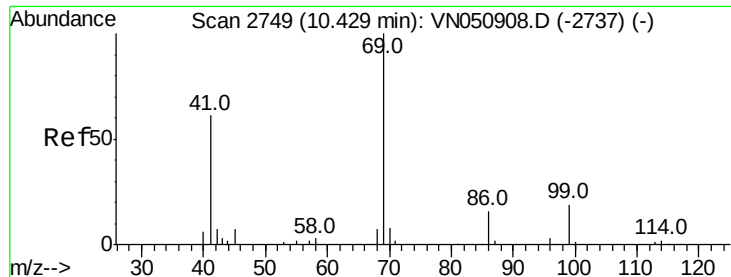
Abundance Ion 97.00 (96.70 to 97.70): VN051292.D (-2639) (-)

Ion 82.95 (82.65 to 83.65): VN051292.D (-2639) (-)

Ion 84.95 (84.65 to 85.65): VN051292.D (-2639) (-)

Ion 98.95 (98.65 to 99.65): VN051292.D (-2639) (-)





#51

Ethyl methacrylate

Concen: 0.298 ug/l

RT: 10.09 min Scan# 2588

Delta R.T. -0.33 min

Lab File: VN051292.D

Acq: 18 Sep 2018 12:58

Instrument :

MSVOA_N

ClientSampled :

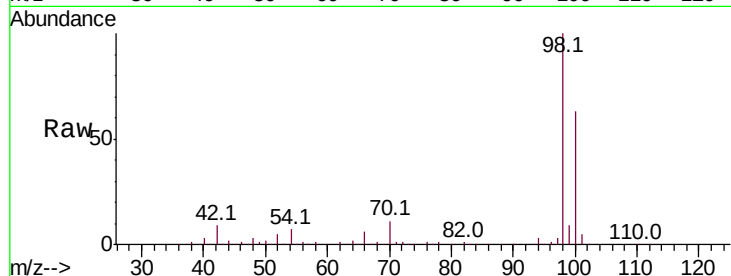
Tot Ion: 69 Resp: 1897

Ion Ratio Lower Upper

69 100

41 48.7 30.5 91.5

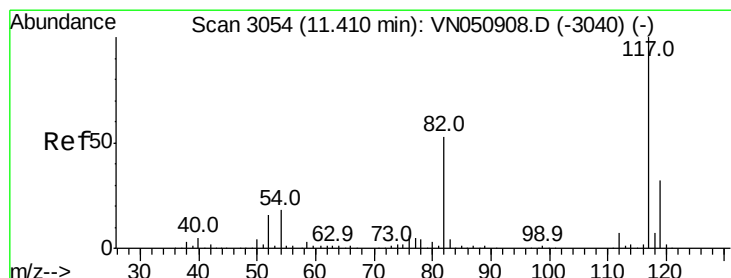
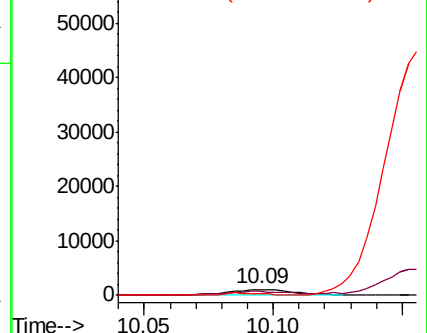
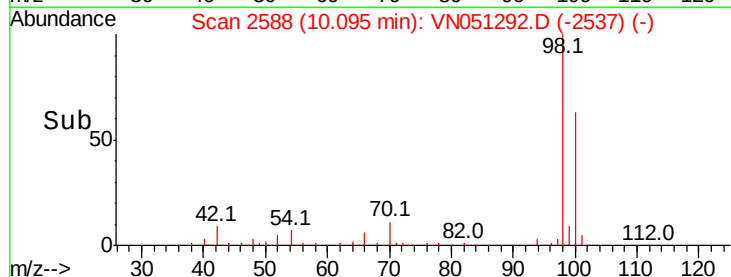
39 21.1 15.3 45.8



Abundance Ion 69.00 (68.70 to 69.70): VN051292.D (-2537) (-)

Ion 41.00 (40.70 to 41.70): VN051292.D (-2537) (-)

Ion 39.00 (38.70 to 39.70): VN051292.D (-2537) (-)



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. -0.00 min

Lab File: VN051292.D

Acq: 18 Sep 2018 12:58

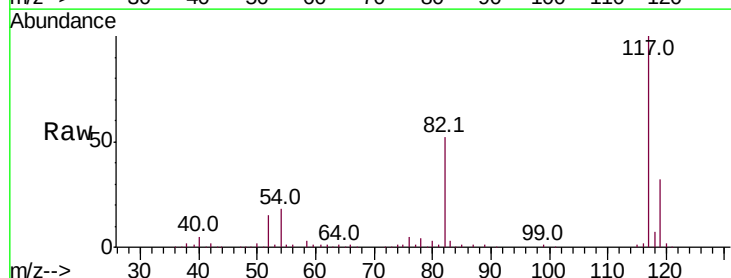
Tgt Ion: 117 Resp: 403572

Ion Ratio Lower Upper

117 100

82 52.3 42.6 64.0

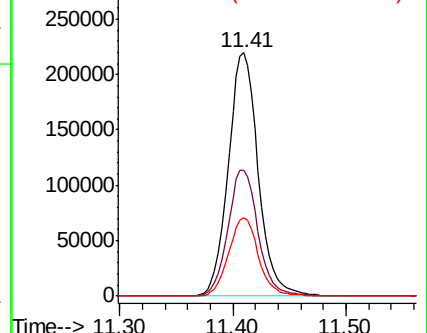
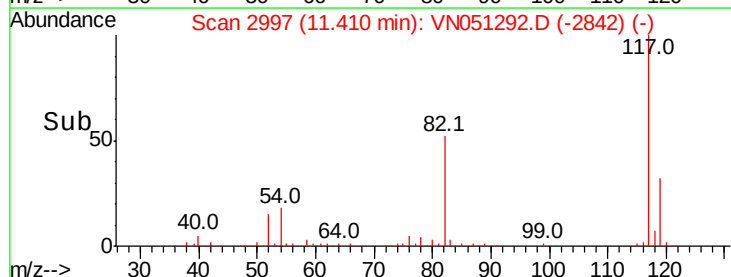
119 32.2 25.7 38.5

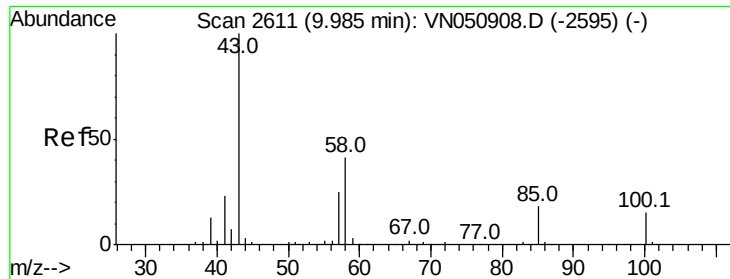


Abundance Ion 117.00 (116.70 to 117.70): VN051292.D (-2842) (-)

Ion 82.00 (81.70 to 82.70): VN051292.D (-2842) (-)

Ion 119.00 (118.70 to 119.70): VN051292.D (-2842) (-)





#58

4-Methyl-2-Pentanone

Concen: 0.400 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN051292.D

Acq: 18 Sep 2018 12:58

Instrument :

MSVOA_N

ClientSampled :

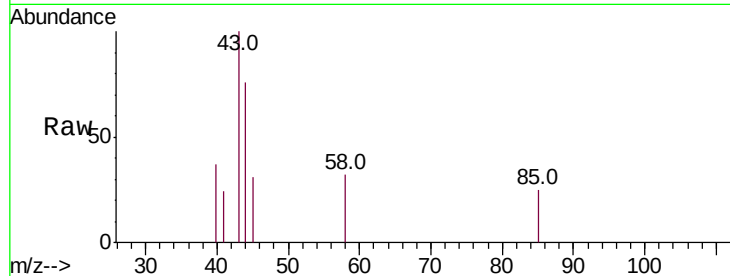
Tot Ion: 43 Resp: 1847

Ion Ratio Lower Upper

43 100

58 14.1 32.3 48.5#

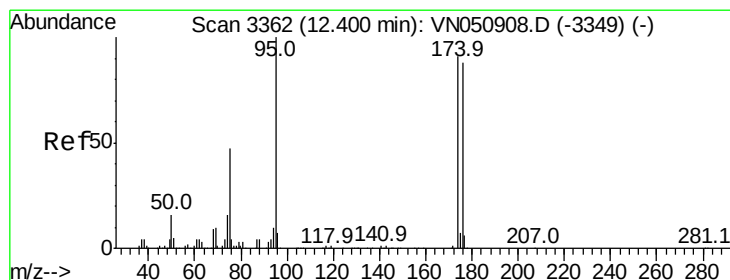
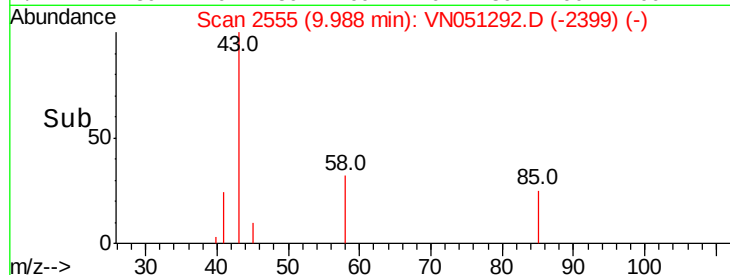
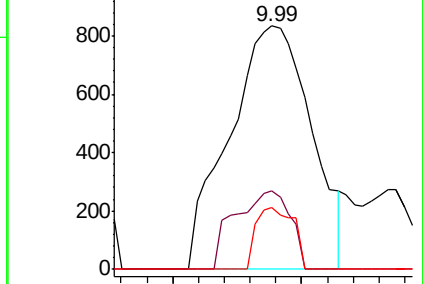
85 9.7 14.9 22.3#



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: 20.207 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051292.D

Acq: 18 Sep 2018 12:58

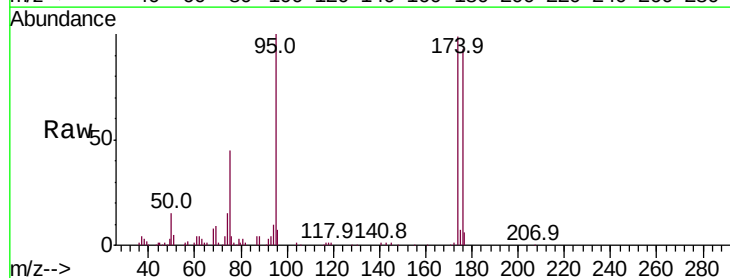
Tgt Ion: 95 Resp: 121269

Ion Ratio Lower Upper

95 100

174 99.0 74.6 112.0

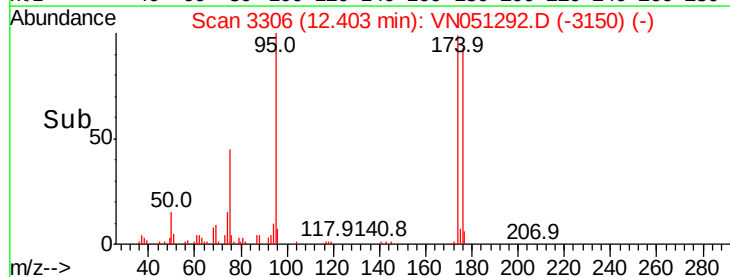
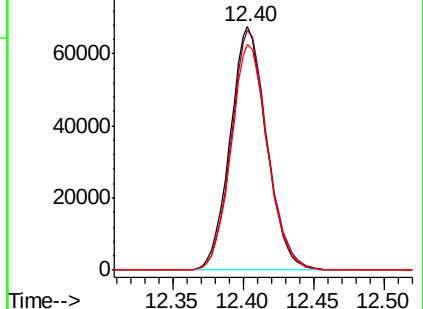
176 93.8 71.5 107.3

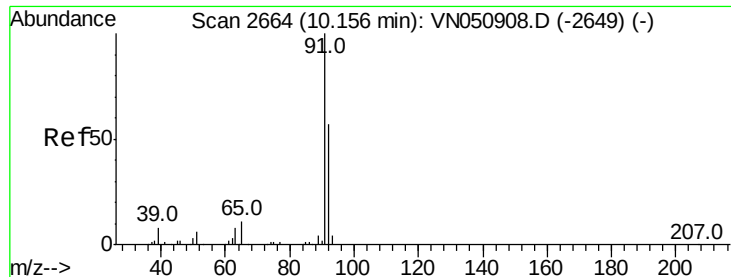


Abundance Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





#62

Toluene

Concen: 49.257 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN051292.D

Acq: 18 Sep 2018 12:58

Instrument :

MSVOA_N

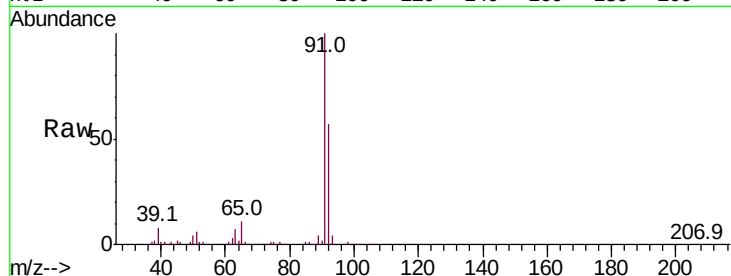
ClientSampleId :

Tot Ion: 91 Resp: 1109014

Ion Ratio Lower Upper

91 100

92 57.1 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) (-)

10.16

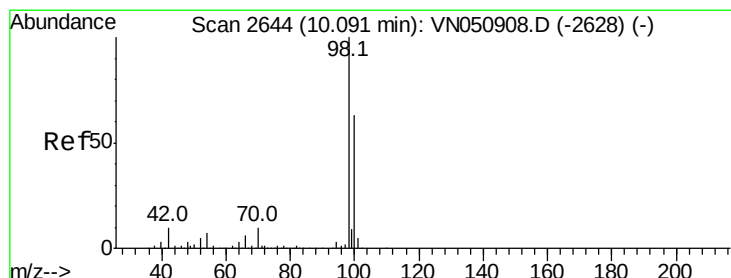
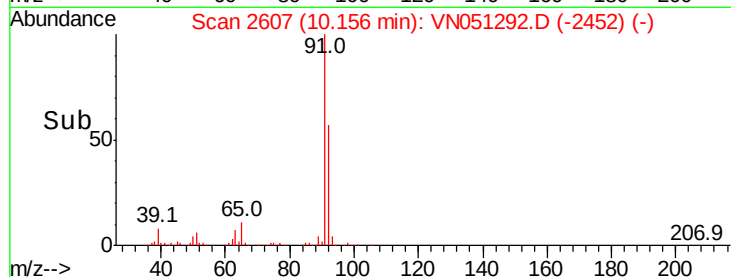
600000

400000

200000

0

Time-->



#63

Toluene-d8

Concen: 30.295 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051292.D

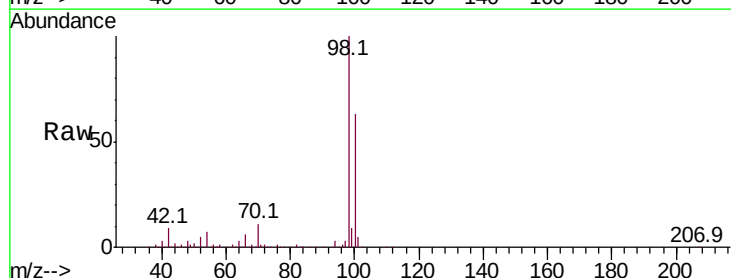
Acq: 18 Sep 2018 12:58

Tgt Ion: 98 Resp: 570154

Ion Ratio Lower Upper

98 100

100 62.9 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) (-)

10.09

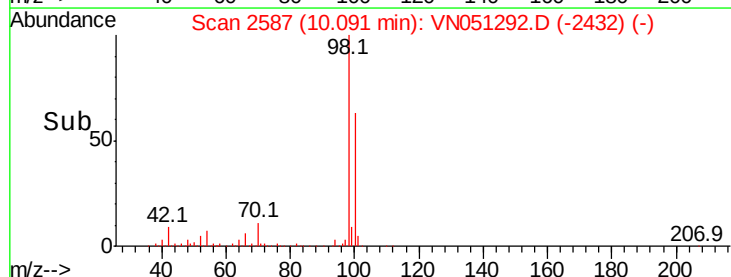
300000

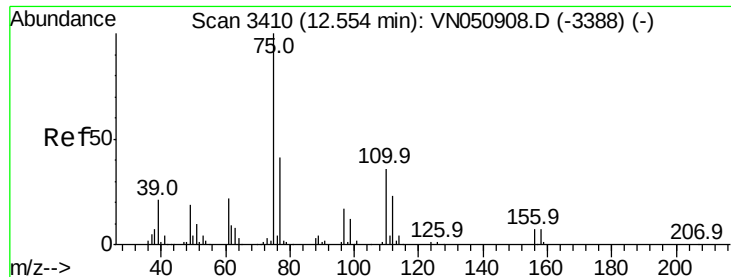
200000

100000

0

Time-->





#72

1,2,3-Trichloropropane

Concen: 10.525 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051292.D

Acq: 18 Sep 2018 12:58

Instrument :

MSVOA_N

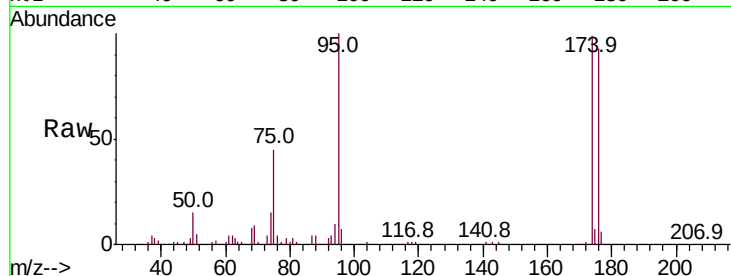
ClientSampleId :

Tot Ion: 75 Resp: 56013

Ion Ratio Lower Upper

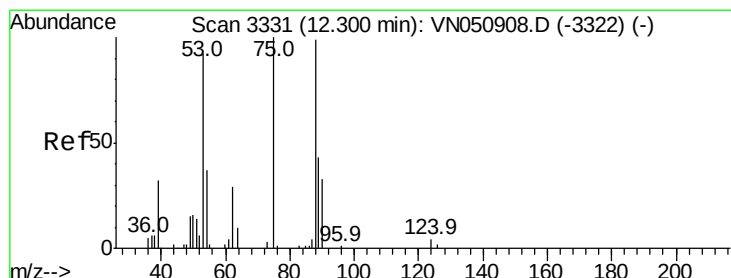
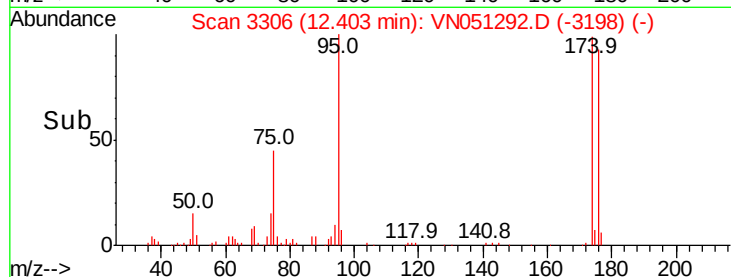
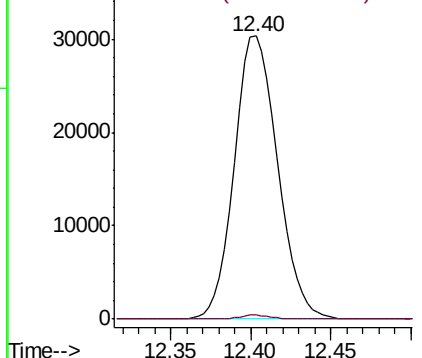
75 100

77 0.9 0.0 301.6



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: 36.944 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051292.D

Acq: 18 Sep 2018 12:58

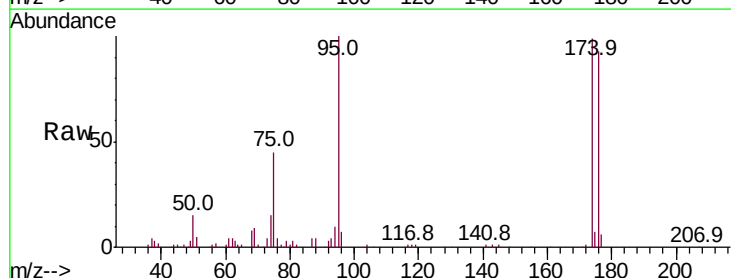
Tgt Ion: 75 Resp: 56013

Ion Ratio Lower Upper

75 100

53 0.0 45.5 136.4#

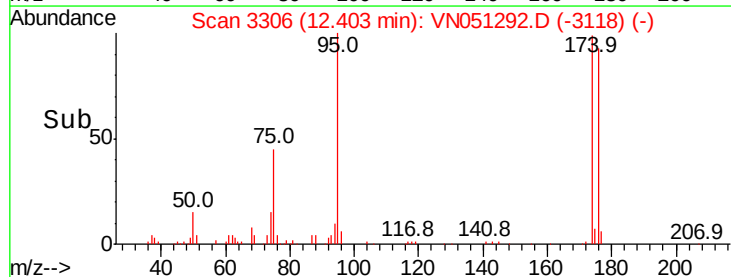
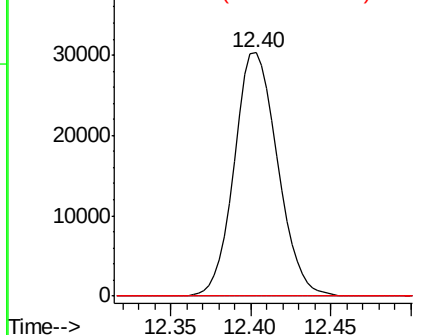
89 0.0 21.9 65.8#

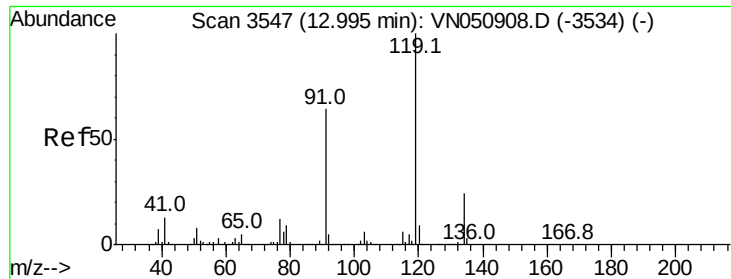


Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0





#79

tert-butylbenzene

Concen: 0.734 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.30 min

Lab File: VN051292.D

Acq: 18 Sep 2018 12:58

Instrument :

MSVOA_N

ClientSampleId :

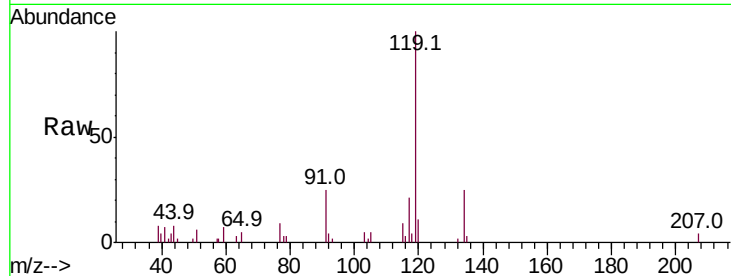
Tot Ion:119 Resp: 11863

Ion Ratio Lower Upper

119 100

91 26.2 0.0 125.6

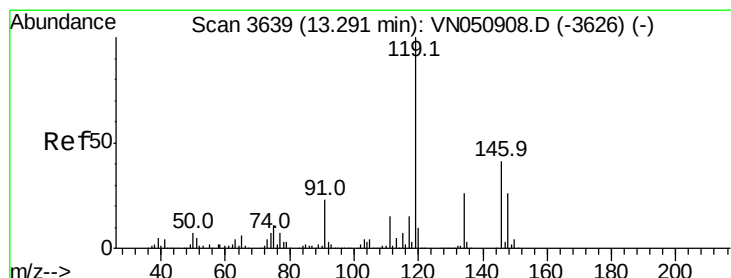
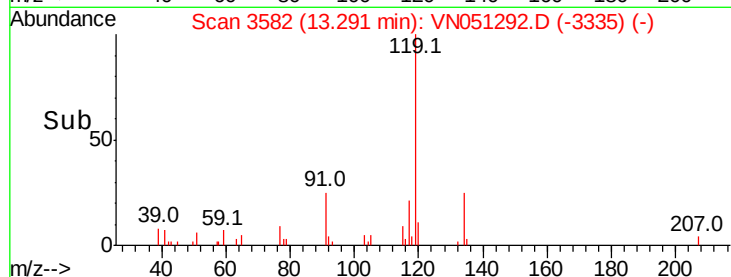
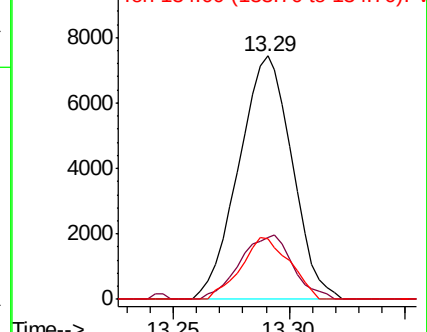
134 23.2 0.0 48.4



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN

Ion 134.00 (133.70 to 134.70): V



#82

p-Isopropyltoluene

Concen: 0.650 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. -0.00 min

Lab File: VN051292.D

Acq: 18 Sep 2018 12:58

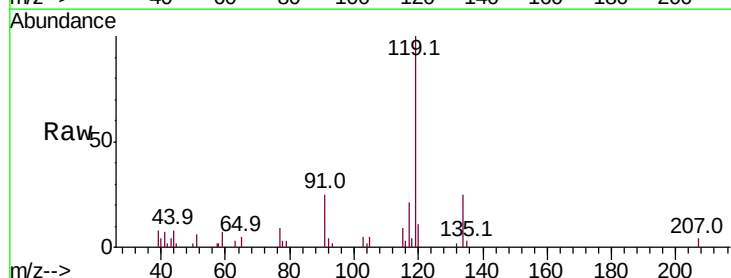
Tgt Ion:119 Resp: 11863

Ion Ratio Lower Upper

119 100

134 23.2 0.0 53.2

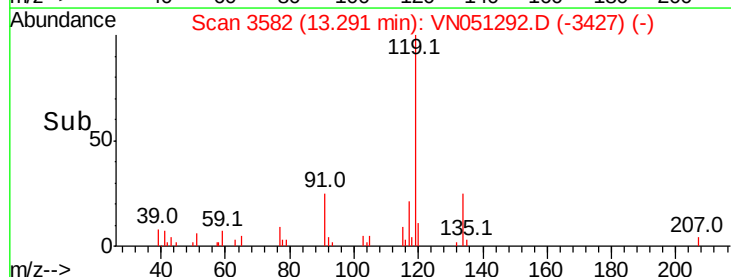
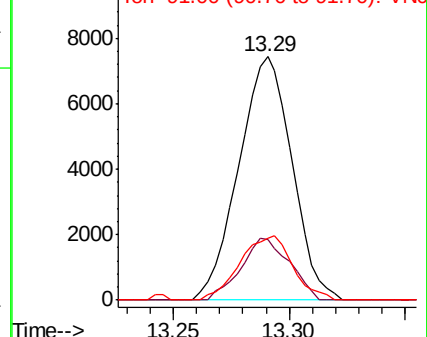
91 26.2 0.0 46.0

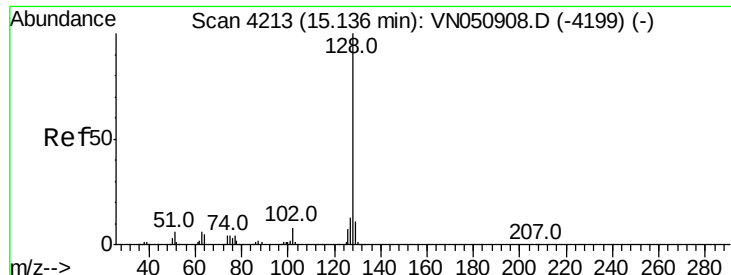


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VN

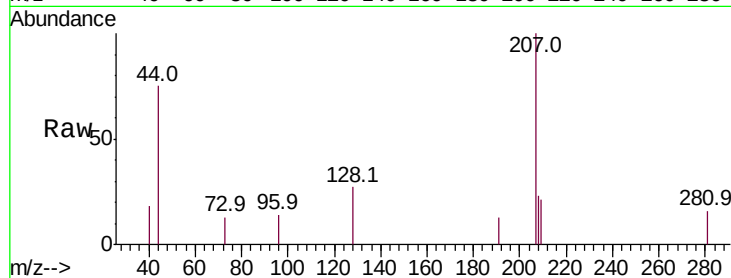




#91
Naphthalene
Concen: 8.599 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. -0.01 min
Lab File: VN051292.D
Acq: 18 Sep 2018 12:58

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	16.0#
129	0.0	8.7	13.1#



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

