

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101518\
 Data File : VN051875.D
 Acq On : 15 Oct 2018 15:35
 Operator : MD\SY
 Sample : J5512-03DL 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 16 00:47:11 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 12 10:23:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	126961	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	727603	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	582311	30.00	ug/l	0.00

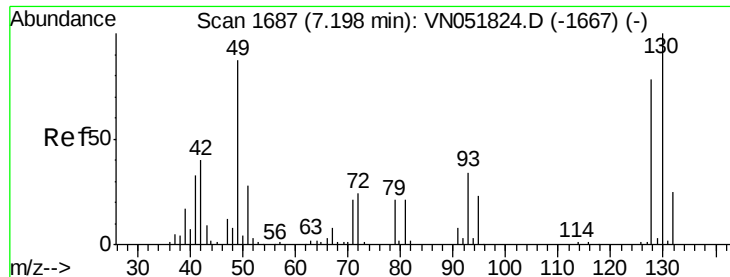
System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	240475	31.13	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.77%
60) 4-Bromofluorobenzene	12.40	95	197464	23.52	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	78.40%
63) Toluene-d8	10.09	98	816357	32.29	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	107.63%

Target Compounds

					Ovalue
12) Methyl Acetate	4.34	43	2680	0.738 ug/l	93
13) Acrolein	3.72	56	59	0.247 ug/l #	70
15) Acetone	3.82	58	40942	102.091 ug/l	89
17) Allyl chloride	4.08	41	1597	0.230 ug/l	75
25) Chloroform	7.37	83	42807	3.341 ug/l	86
41) Bromodichloromethane	9.40	83	2644	0.264 ug/l #	74
45) 1,4-Dioxane	8.78	88	117	1.714 ug/l #	6
48) t-1,3-Dichloropropene	10.15	75	3529	0.361 ug/l #	1
49) cis-1,3-Dichloropropene	10.15	75	3529	0.328 ug/l #	1
51) Ethyl methacrylate	10.09	69	2295	0.299 ug/l	67
56) Bromoform	12.41	173	1888	0.345 ug/l #	1
58) 4-Methyl-2-Pentanone	9.99	43	3989	1.024 ug/l	96
62) Toluene	10.16	91	588954	20.359 ug/l	99
77) t-1,4-Dichloro-2-butene	12.40	75	98030	55.990 ug/l #	12
79) tert-butylbenzene	13.29	119	12088	0.466 ug/l	58
82) p-Isopropyltoluene	13.29	119	12088	0.398 ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	178	7.746 ug/l #	28
91) Naphthalene	15.14	128	942	8.582 ug/l #	70

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



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN051875.D

Acq: 15 Oct 2018 15:35

Instrument :
MSVOA_N
ClientSampleId :

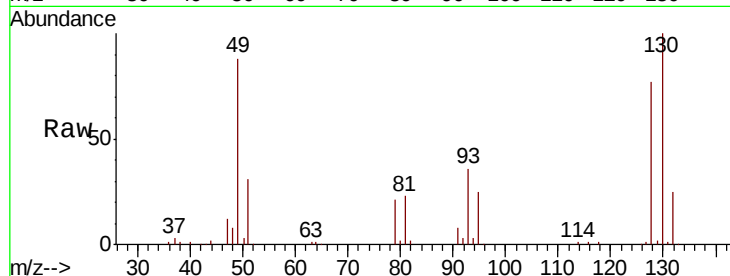
Tot Ion:128 Resp: 126961

Ion Ratio Lower Upper

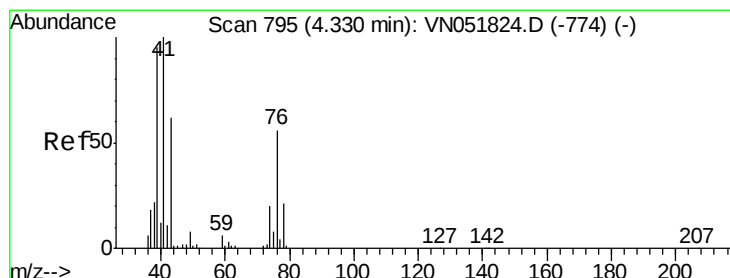
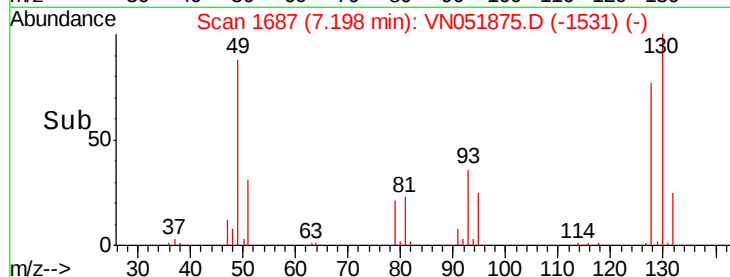
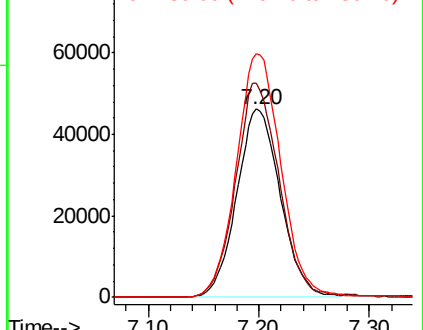
128 100

49 113.2 0.0 403.3

130 131.5 0.0 326.0



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



#12

Methyl Acetate

Concen: 0.738 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN051875.D

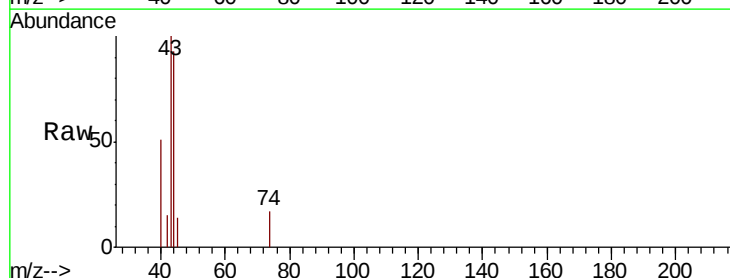
Acq: 15 Oct 2018 15:35

Tgt Ion: 43 Resp: 2680

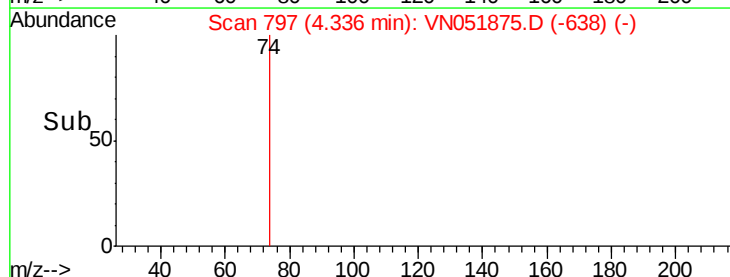
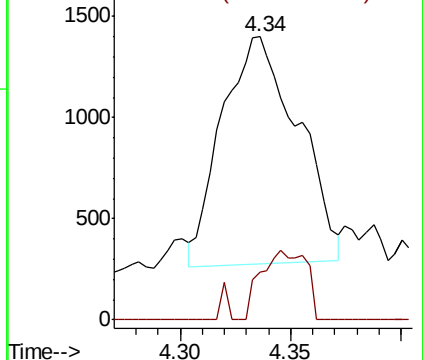
Ion Ratio Lower Upper

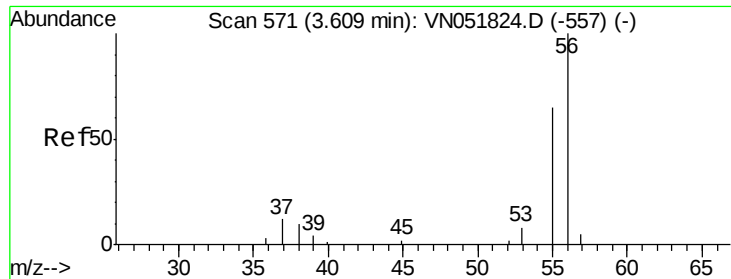
43 100

74 23.7 21.8 32.6



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

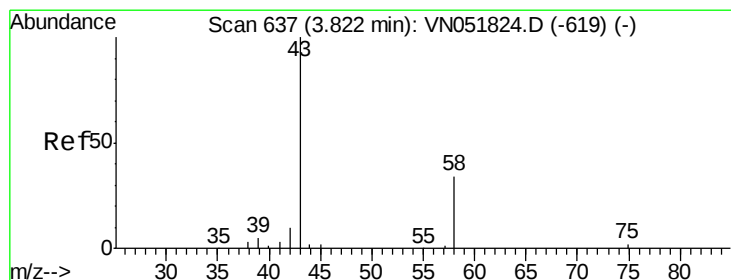
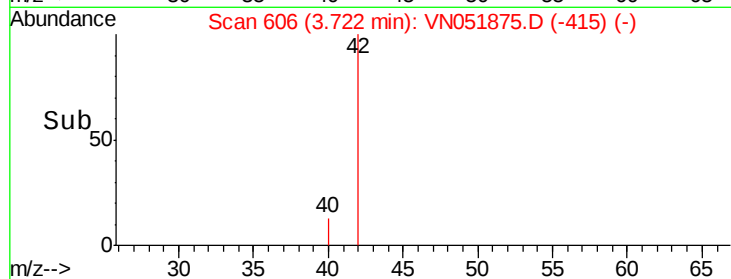
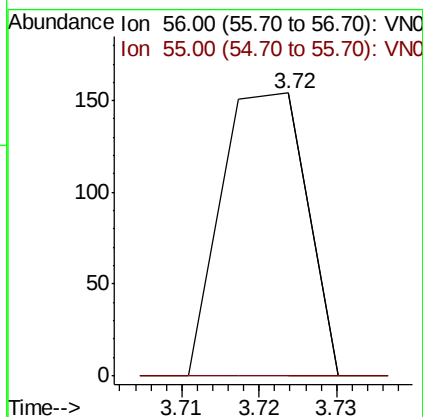
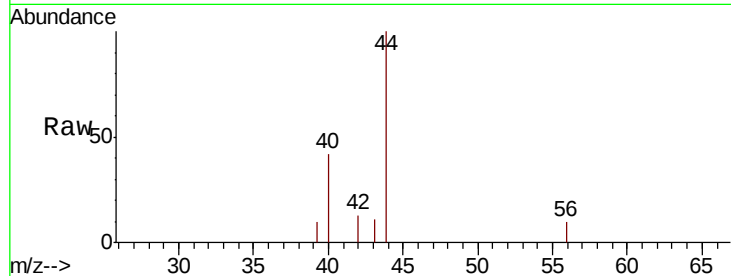




#13
 Acrolein
 Concen: 0.247 ug/l
 RT: 3.72 min Scan# 606
 Delta R.T. 0.11 min
 Lab File: VN051875.D
 Acq: 15 Oct 2018 15:35

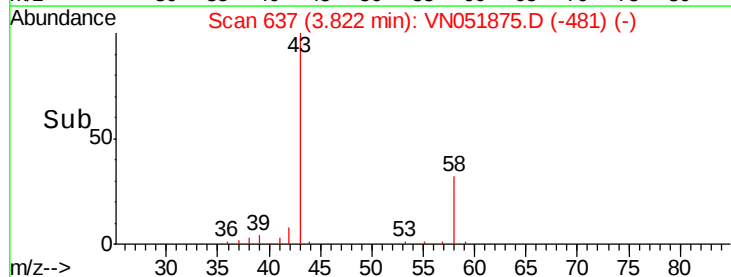
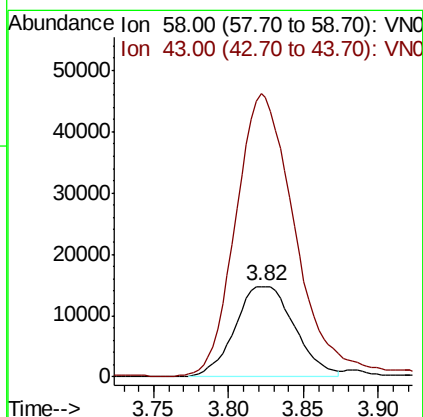
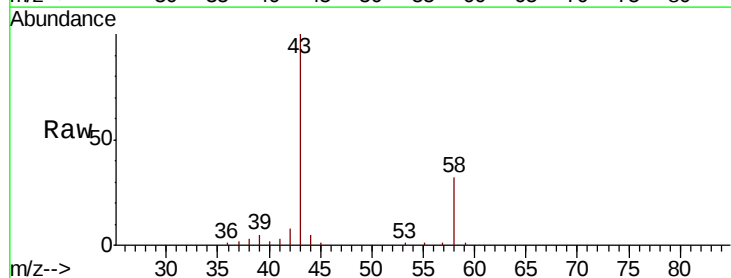
Instrument :
 MSVOA_N
 ClientSampled :

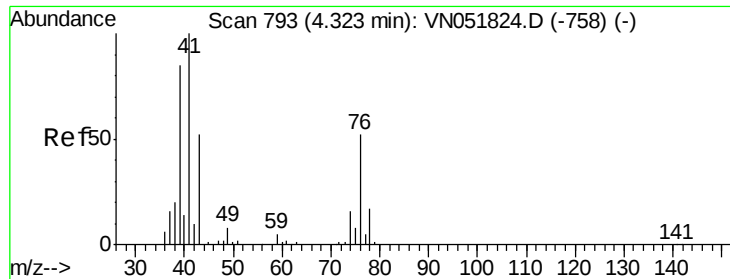
Tot Ion: 56 Resp: 59
 Ion Ratio Lower Upper
 56 100
 55 106.8 64.0 96.0#



#15
 Acetone
 Concen: 102.091 ug/l
 RT: 3.82 min Scan# 637
 Delta R.T. 0.00 min
 Lab File: VN051875.D
 Acq: 15 Oct 2018 15:35

Tgt Ion: 58 Resp: 40942
 Ion Ratio Lower Upper
 58 100
 43 310.4 232.2 348.2

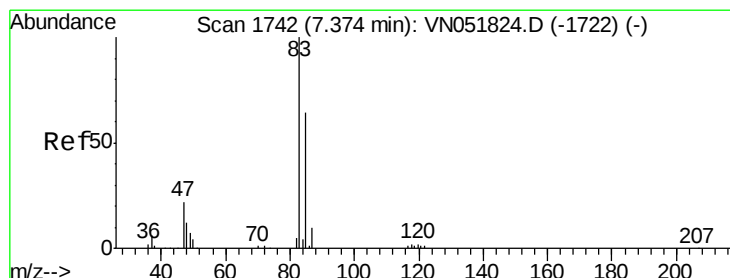
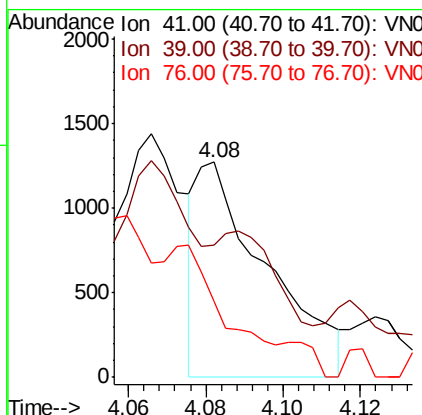
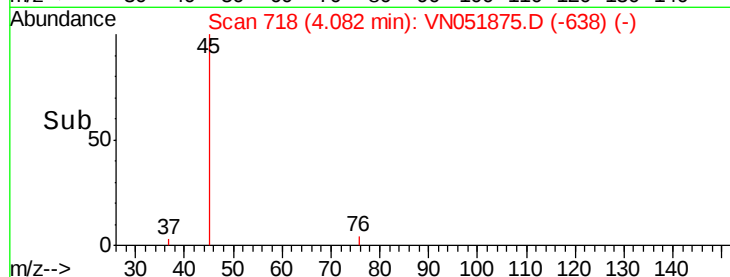
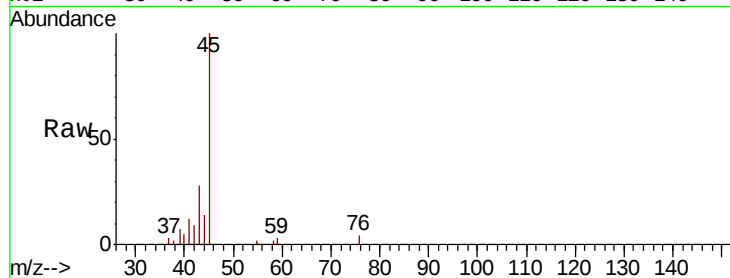




#17
Allvl chloride
Concen: 0.230 ug/l
RT: 4.08 min Scan# 718
Delta R.T. -0.24 min
Lab File: VN051875.D
Acq: 15 Oct 2018 15:35

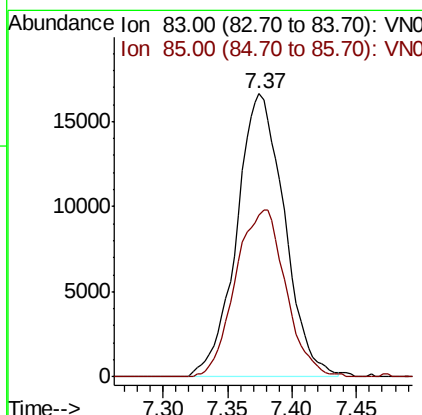
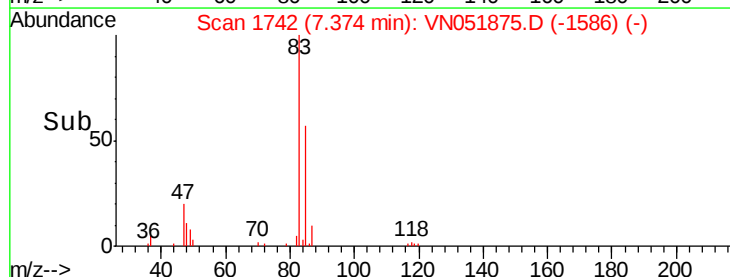
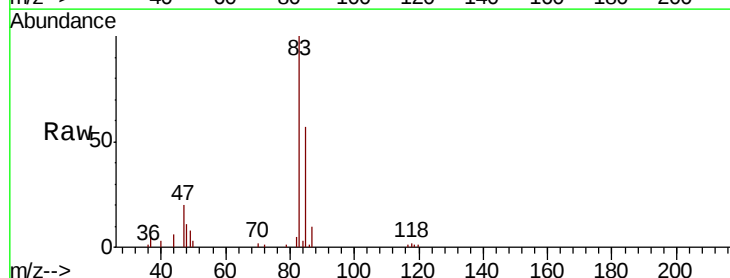
Instrument :
MSVOA_N
ClientSampled :

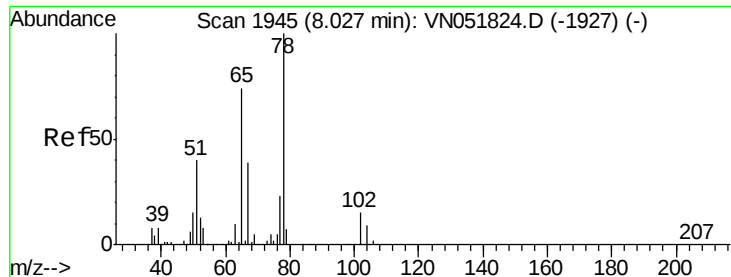
Tot Ion: 41 Resp: 1597
Ion Ratio Lower Upper
41 100
39 37.0 32.6 97.8
76 45.2 20.2 60.5



#25
Chloroform
Concen: 3.341 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN051875.D
Acq: 15 Oct 2018 15:35

Tgt Ion: 83 Resp: 42807
Ion Ratio Lower Upper
83 100
85 57.1 54.6 82.0





#27

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051875.D

Acq: 15 Oct 2018 15:35

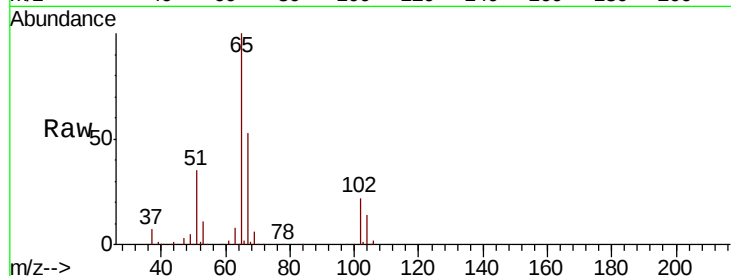
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 65 Resp: 240475

Ion Ratio Lower Upper

65 100

67 52.1 41.8 62.8



Abundance Ion 65.00 (64.70 to 65.70): VN051824.D (-1927) (-)

Ion 67.00 (66.70 to 67.70): VN051824.D (-1927) (-)

8.03

100000

80000

60000

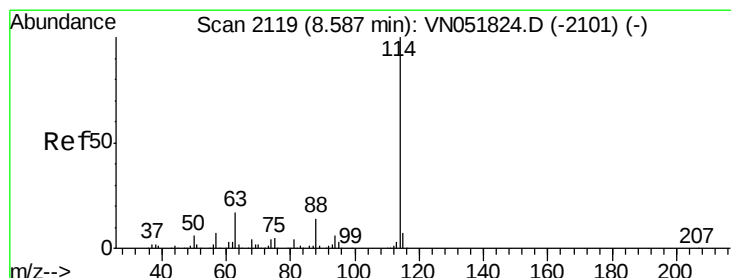
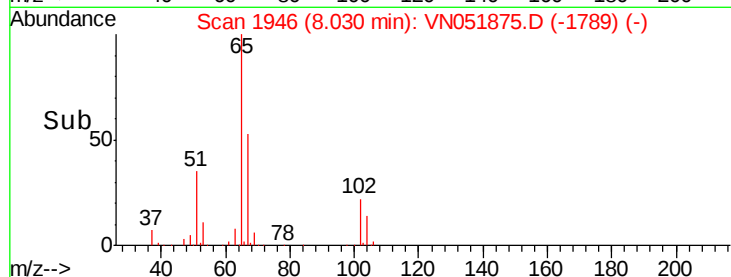
40000

20000

0

7.95 8.00 8.05 8.10

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN051875.D

Acq: 15 Oct 2018 15:35

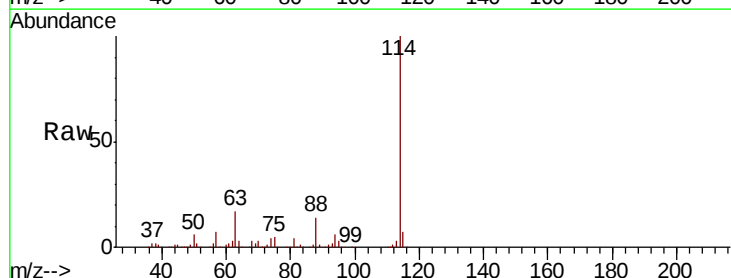
Tgt Ion: 114 Resp: 727603

Ion Ratio Lower Upper

114 100

63 16.9 16.2 24.2

88 14.0 12.2 18.4



Abundance Ion 114.00 (113.70 to 114.70): VN051824.D (-2101) (-)

Ion 63.00 (62.70 to 63.70): VN051824.D (-2101) (-)

Ion 88.00 (87.70 to 88.70): VN051824.D (-2101) (-)

8.59

400000

300000

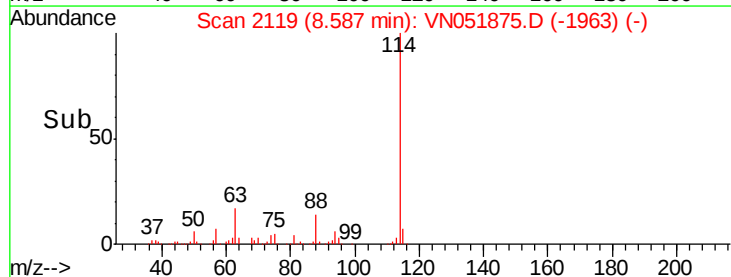
200000

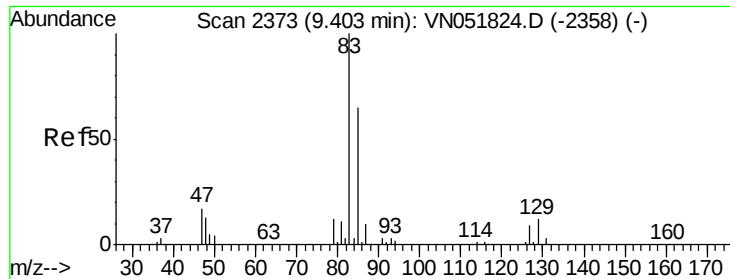
100000

0

8.50 8.60 8.70

Time-->





#41

Bromodichloromethane

Concen: 0.264 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN051875.D

Acq: 15 Oct 2018 15:35

Instrument :

MSVOA_N

ClientSampleId :

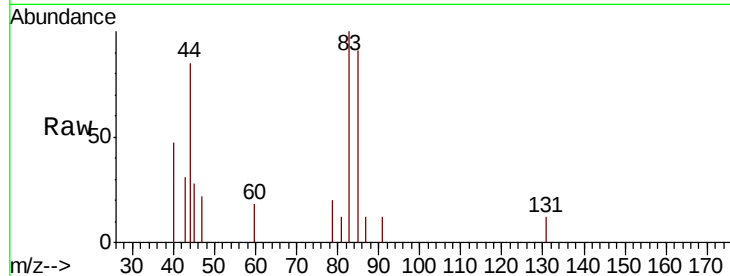
Tot Ion: 83 Resp: 2644

Ion Ratio Lower Upper

83 100

85 90.6 55.7 83.5#

127 0.0 8.2 12.4#

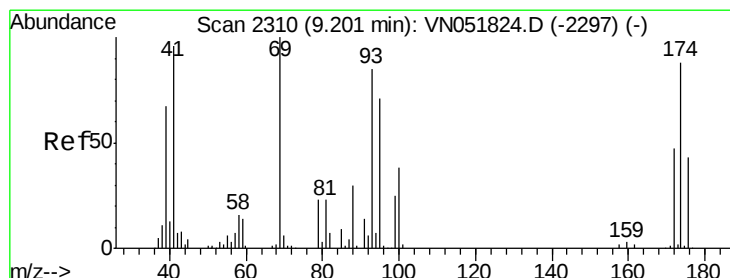
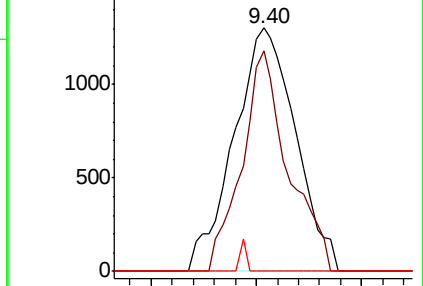
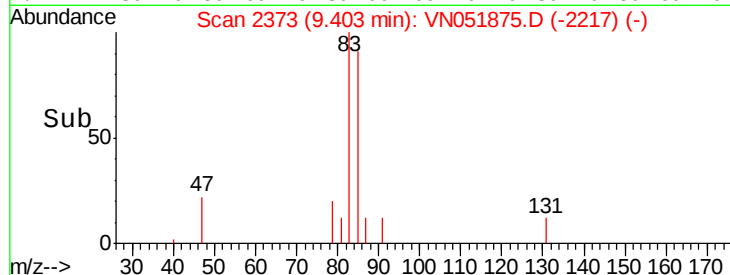


Abundance Ion 83.00 (82.70 to 83.70): VN051824.D (-2358) (-)

Ion 85.00 (84.70 to 85.70): VN051824.D (-2358) (-)

Ion 127.00 (126.70 to 127.70): VN051824.D (-2358) (-)

Time-->



#45

1,4-Dioxane

Concen: 1.714 ug/l

RT: 8.78 min Scan# 2178

Delta R.T. -0.42 min

Lab File: VN051875.D

Acq: 15 Oct 2018 15:35

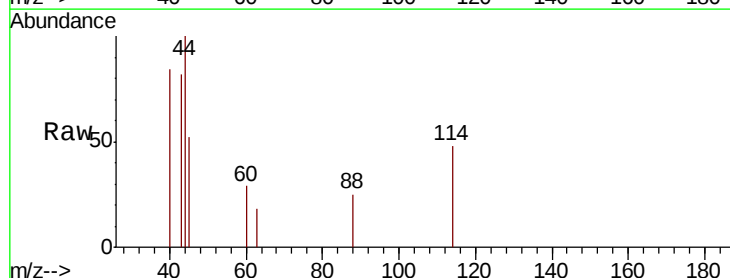
Tgt Ion: 88 Resp: 117

Ion Ratio Lower Upper

88 100

43 89.7 26.2 39.2#

58 0.0 65.6 98.4#

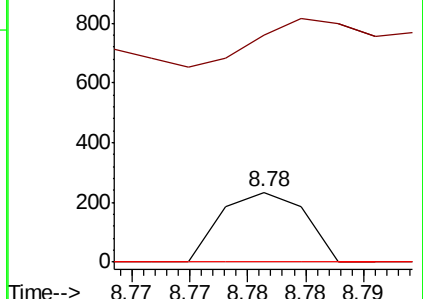
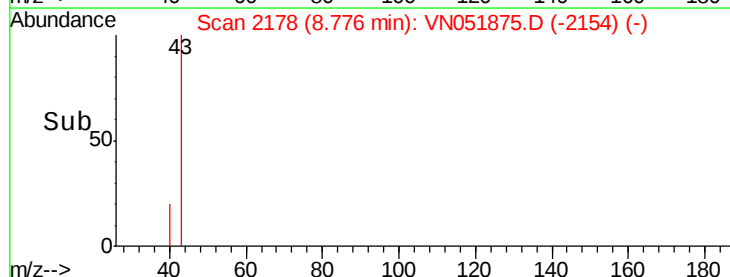


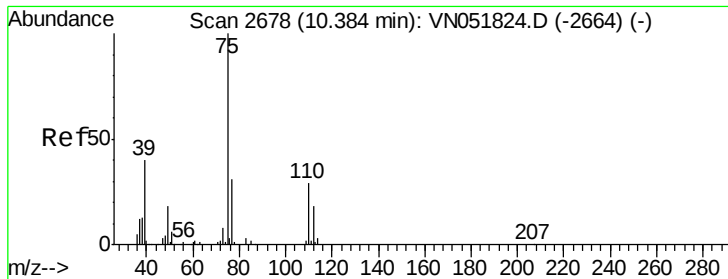
Abundance Ion 88.00 (87.70 to 88.70): VN051824.D (-2297) (-)

Ion 43.00 (42.70 to 43.70): VN051824.D (-2297) (-)

Ion 58.00 (57.70 to 58.70): VN051824.D (-2297) (-)

Time-->





#48

t-1,3-Dichloropropene

Concen: 0.361 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.23 min

Lab File: VN051875.D

Acq: 15 Oct 2018 15:35

Instrument :

MSVOA_N

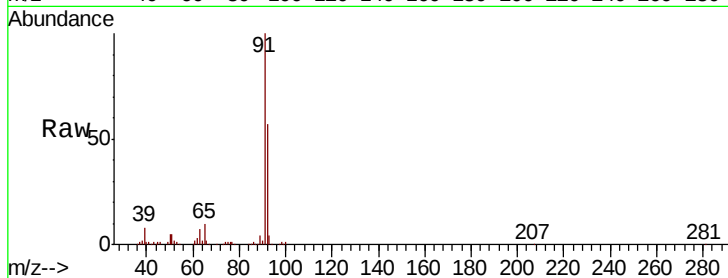
ClientSampleId :

Tot Ion: 75 Resp: 3529

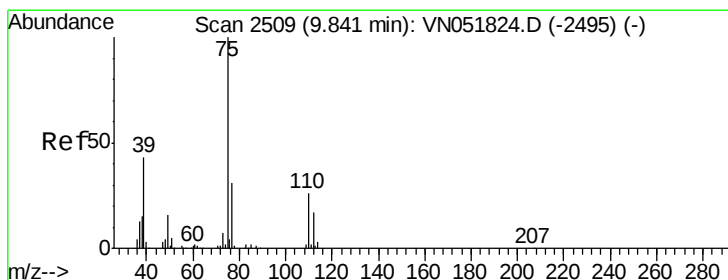
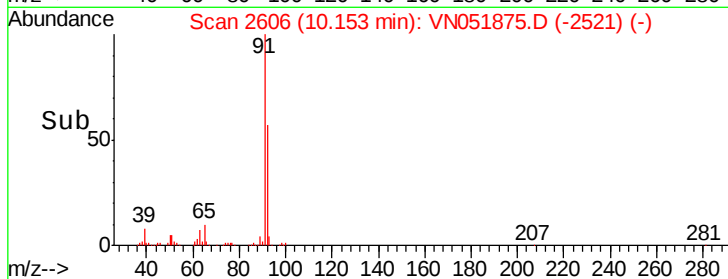
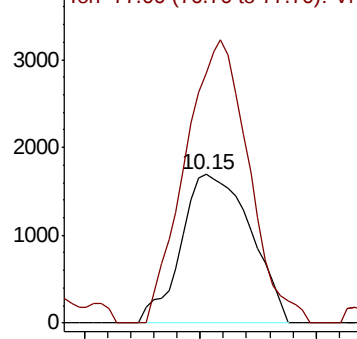
Ion Ratio Lower Upper

75 100

77 168.3 24.6 37.0#



Abundance Ion 75.00 (74.70 to 75.70): VNO
Ion 77.00 (76.70 to 77.70): VNO



#49

cis-1,3-Dichloropropene

Concen: 0.328 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.31 min

Lab File: VN051875.D

Acq: 15 Oct 2018 15:35

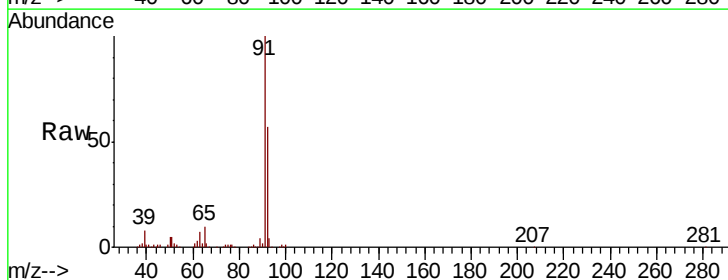
Tgt Ion: 75 Resp: 3529

Ion Ratio Lower Upper

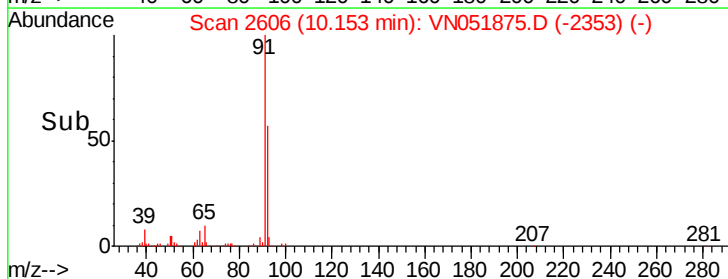
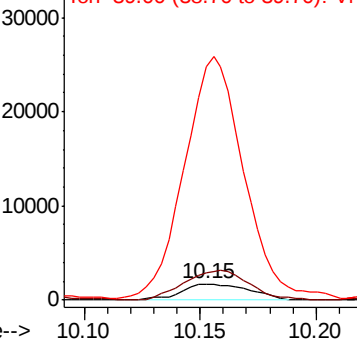
75 100

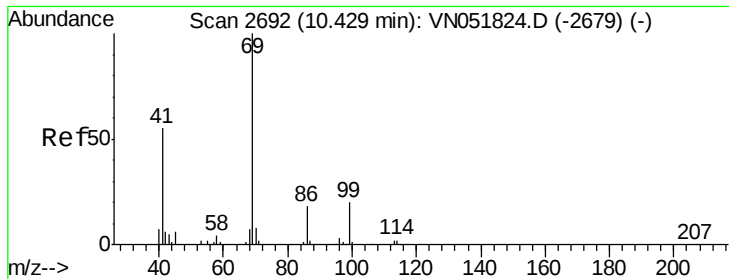
77 168.3 23.2 34.8#

39 1419.3 34.6 52.0#



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: 0.299 ug/l

RT: 10.09 min Scan# 2588

Delta R.T. -0.33 min

Lab File: VN051875.D

Acq: 15 Oct 2018 15:35

Instrument :

MSVOA_N

ClientSampleId :

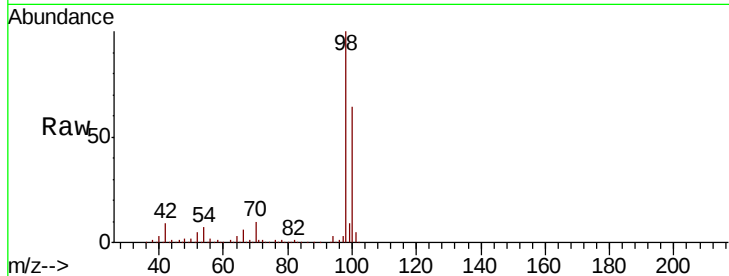
Tot Ion: 69 Resp: 2295

Ion Ratio Lower Upper

69 100

41 99.5 34.4 103.1

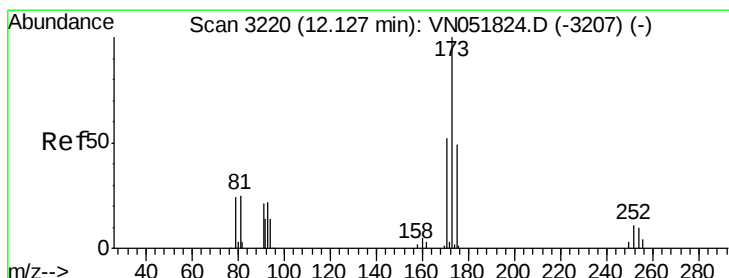
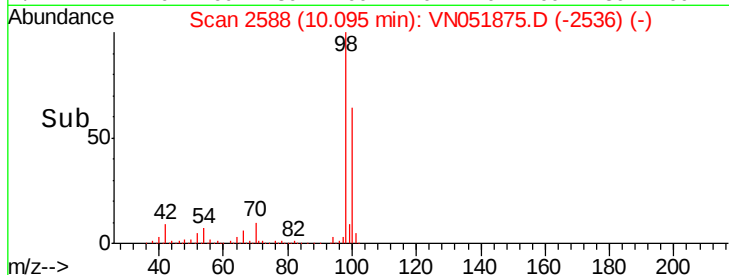
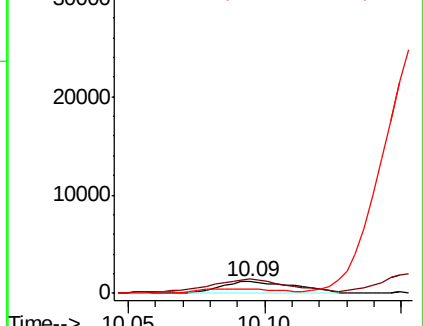
39 20.2 16.3 48.8



Abundance Ion 69.00 (68.70 to 69.70): VN051824.D (-2679) (-)

Ion 41.00 (40.70 to 41.70): VN051824.D (-2679) (-)

Ion 39.00 (38.70 to 39.70): VN051824.D (-2679) (-)



#56

Bromoform

Concen: 0.345 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN051875.D

Acq: 15 Oct 2018 15:35

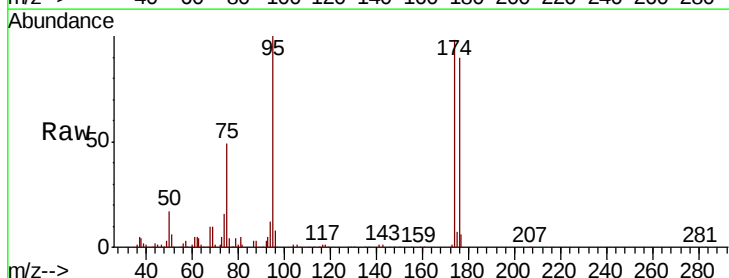
Tgt Ion: 173 Resp: 1888

Ion Ratio Lower Upper

173 100

175 776.7 35.8 53.8#

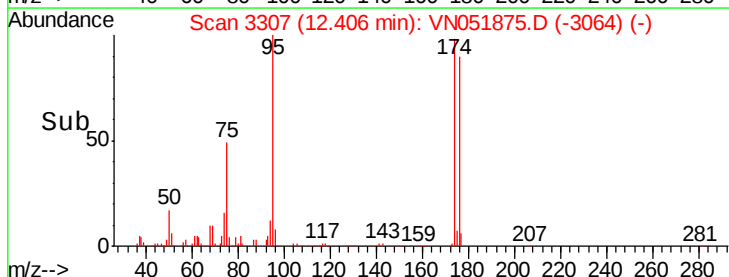
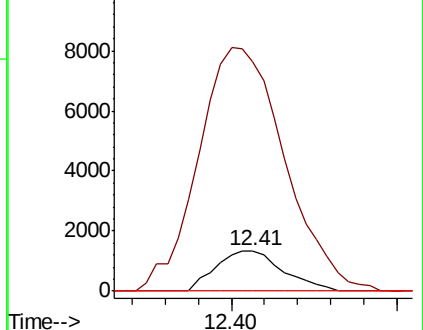
254 0.0 8.6 13.0#

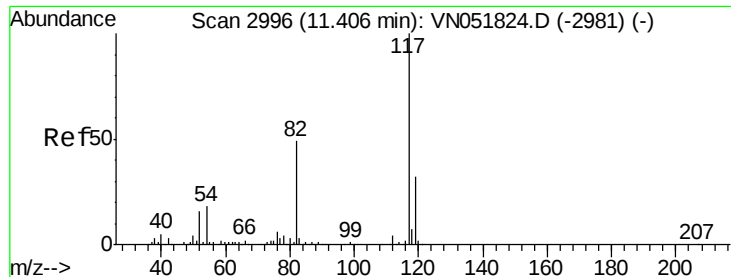


Abundance Ion 173.00 (172.70 to 173.70): VN051824.D (-3207) (-)

Ion 175.00 (174.70 to 175.70): VN051824.D (-3207) (-)

Ion 254.00 (253.70 to 254.70): VN051824.D (-3207) (-)

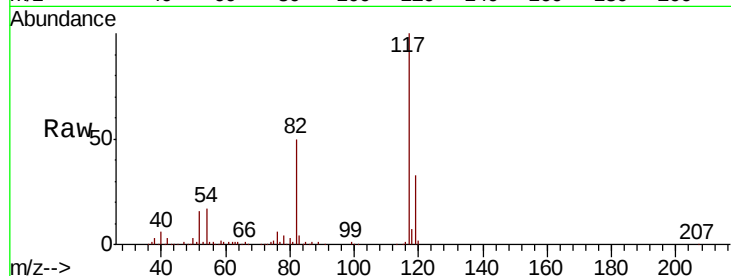




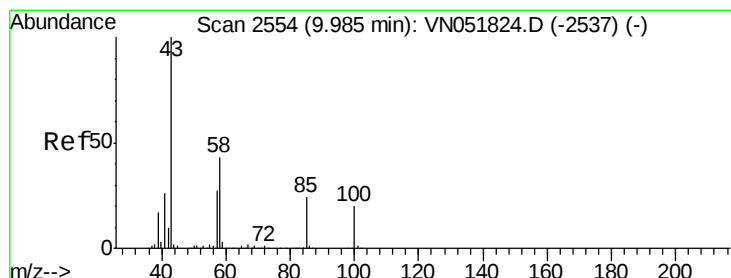
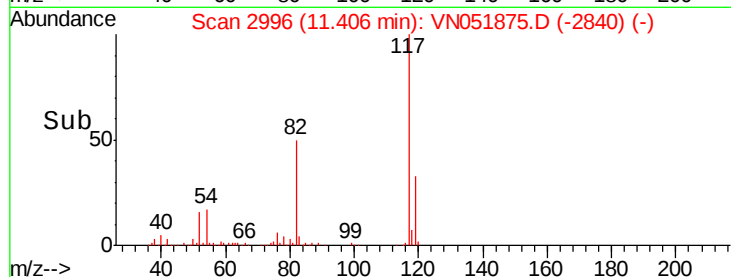
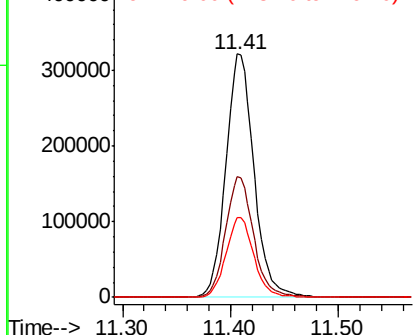
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051875.D
Acq: 15 Oct 2018 15:35

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 582311
Ion Ratio Lower Upper
117 100
82 49.3 44.1 66.1
119 32.6 25.8 38.8

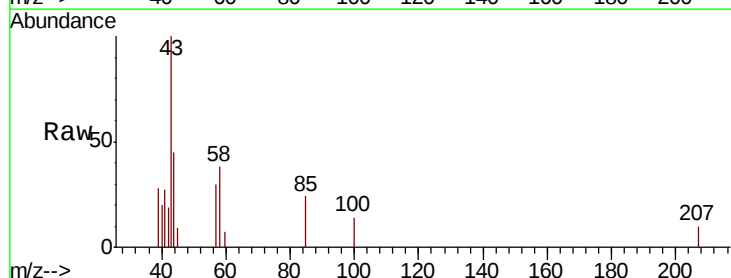


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VN
Ion 119.00 (118.70 to 119.70): V

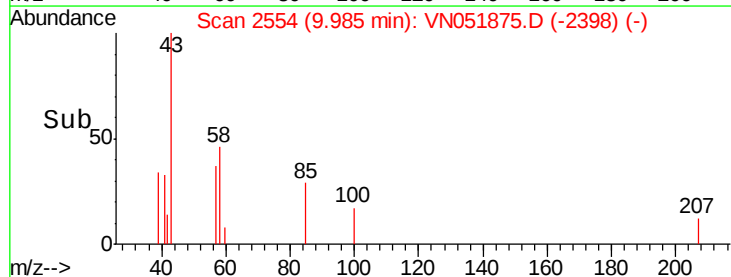
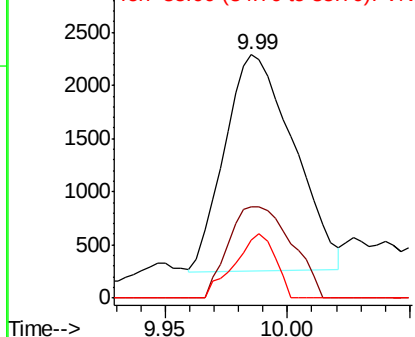


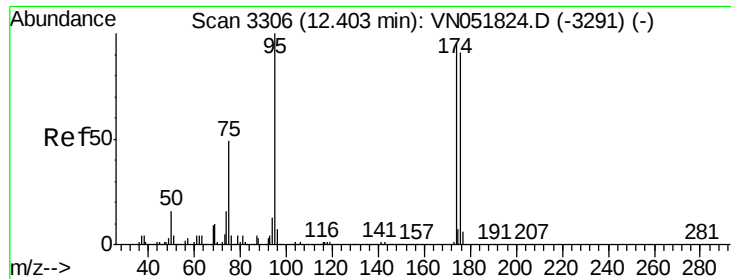
#58
4-Methyl-2-Pentanone
Concen: 1.024 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN051875.D
Acq: 15 Oct 2018 15:35

Tgt Ion: 43 Resp: 3989
Ion Ratio Lower Upper
43 100
58 38.8 29.3 43.9
85 17.5 12.6 18.8



Abundance Ion 43.00 (42.70 to 43.70): VN
Ion 58.00 (57.70 to 58.70): VN
Ion 85.00 (84.70 to 85.70): VN

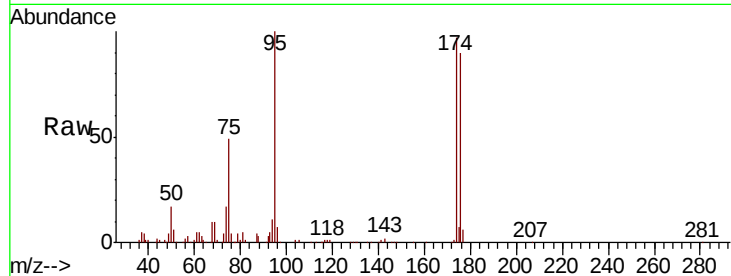




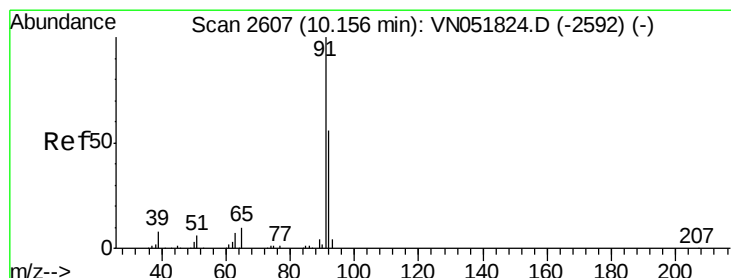
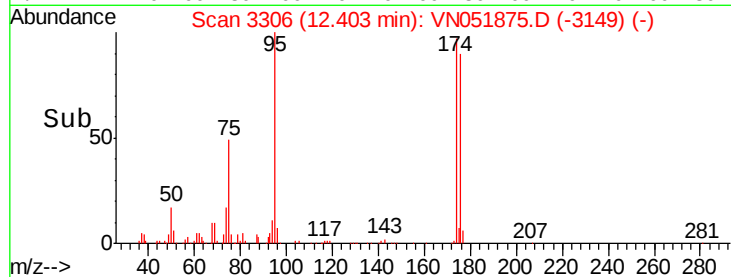
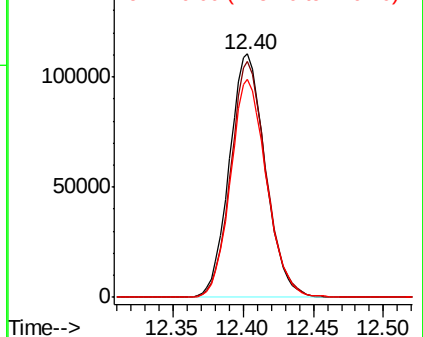
#60
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051875.D
Acq: 15 Oct 2018 15:35

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 95 Resp: 197464
Ion Ratio Lower Upper
95 100
174 95.3 73.5 110.3
176 89.6 70.2 105.2

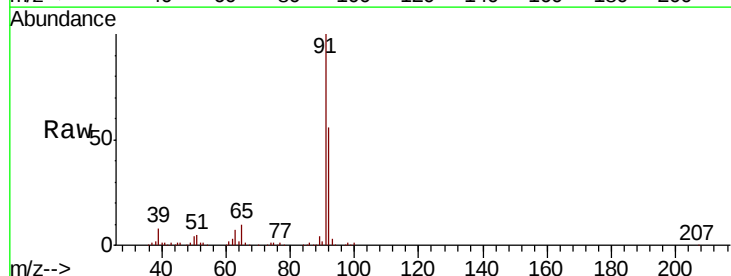


Abundance Ion 95.00 (94.70 to 95.70): VNC
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V

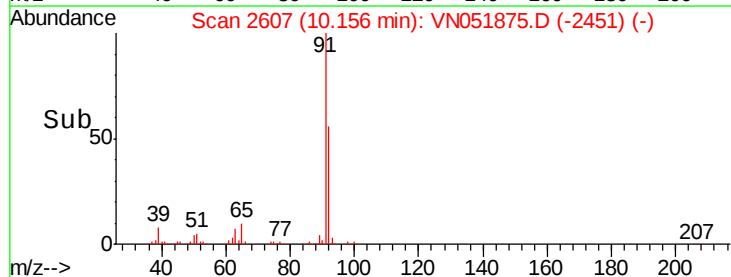
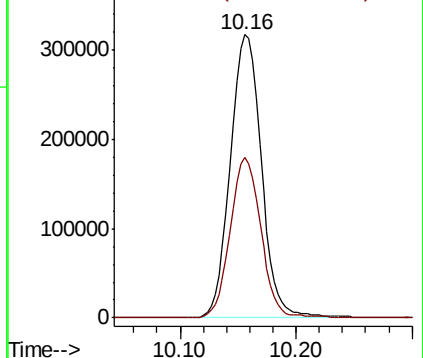


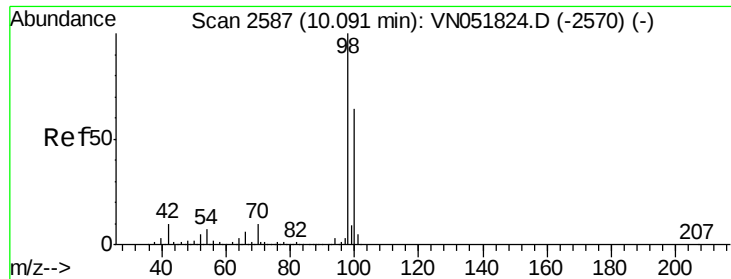
#62
Toluene
Concen: 20.359 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN051875.D
Acq: 15 Oct 2018 15:35

Tgt Ion: 91 Resp: 588954
Ion Ratio Lower Upper
91 100
92 56.2 44.6 66.8



Abundance Ion 91.00 (90.70 to 91.70): VNC
Ion 92.00 (91.70 to 92.70): VNC





#63

Toluene-d8

Concen: 20.359 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051875.D

Acq: 15 Oct 2018 15:35

Instrument :

MSVOA_N

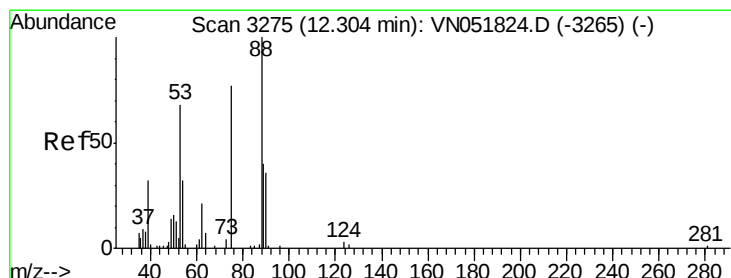
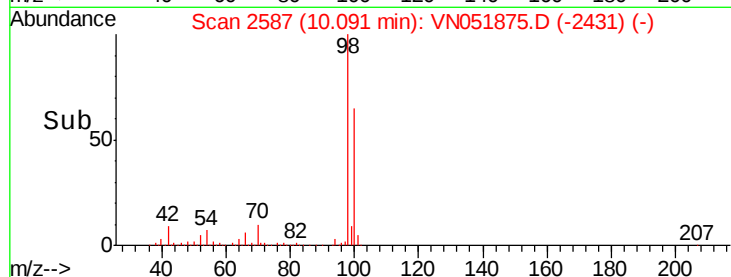
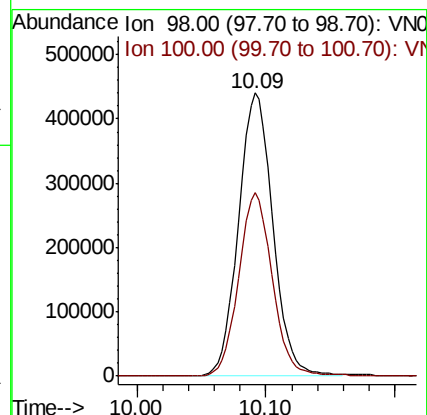
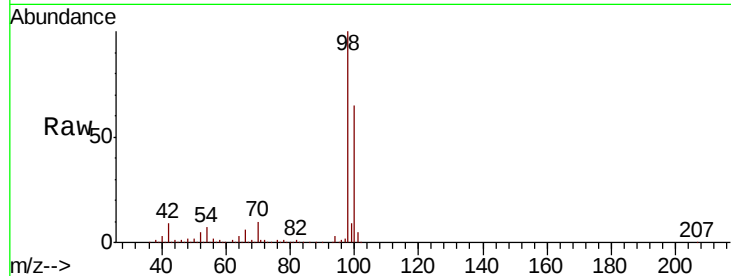
ClientSampleId :

Tot Ion: 98 Resp: 816357

Ion Ratio Lower Upper

98 100

100 63.5 50.8 76.2



#77

t-1,4-Dichloro-2-butene

Concen: 55.990 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051875.D

Acq: 15 Oct 2018 15:35

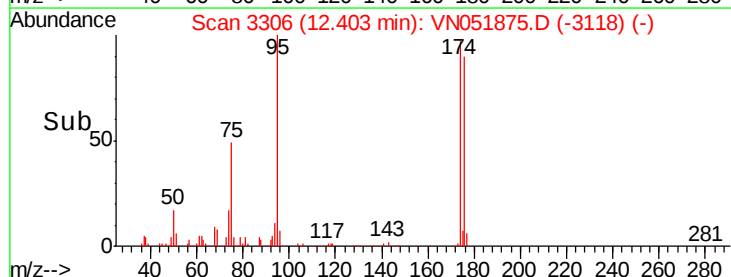
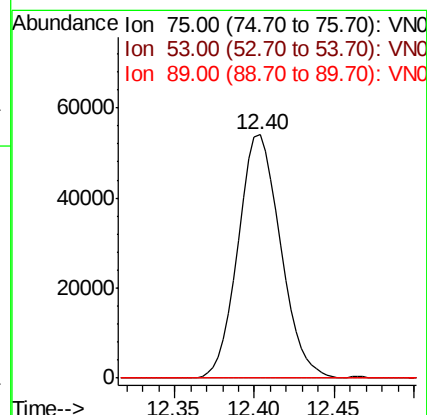
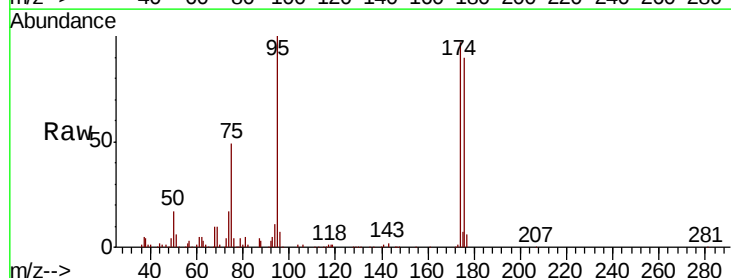
Tgt Ion: 75 Resp: 98030

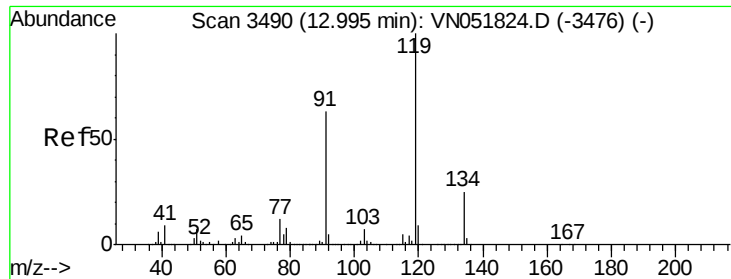
Ion Ratio Lower Upper

75 100

53 0.0 46.3 138.9#

89 0.0 24.6 73.8#

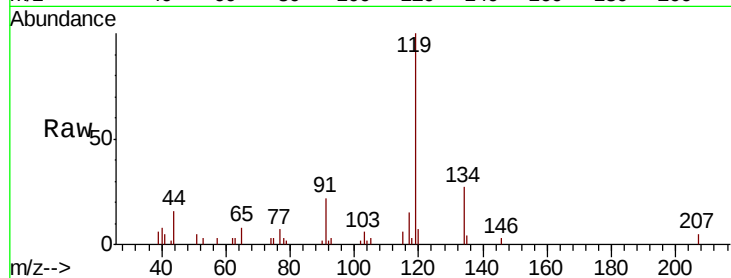




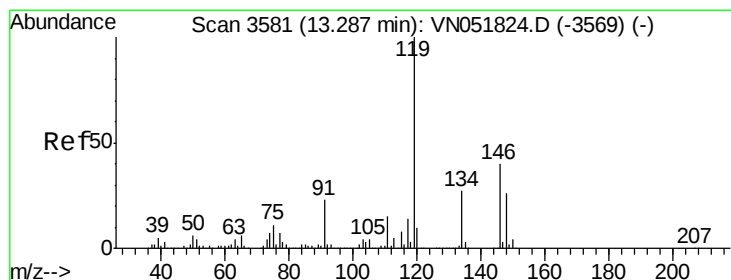
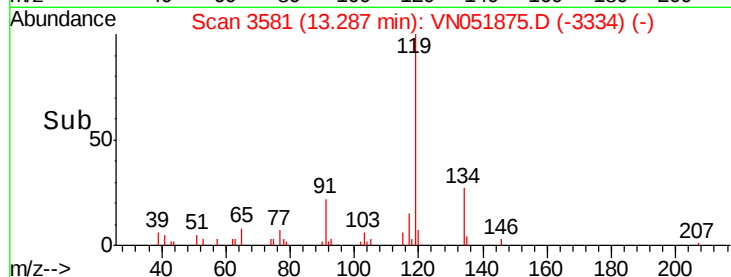
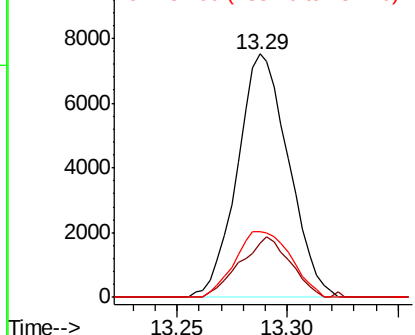
#79
tert-butylbenzene
Concen: 0.466 ug/l
RT: 13.29 min Scan# 3581
Delta R.T. 0.29 min
Lab File: VN051875.D
Acq: 15 Oct 2018 15:35

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:119 Resp: 12088
Ion Ratio Lower Upper
119 100
91 24.2 0.0 131.6
134 29.4 0.0 46.2

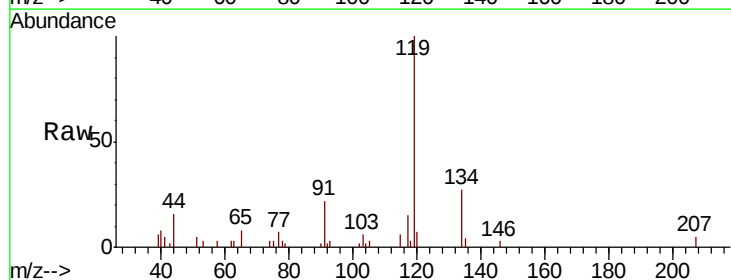


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

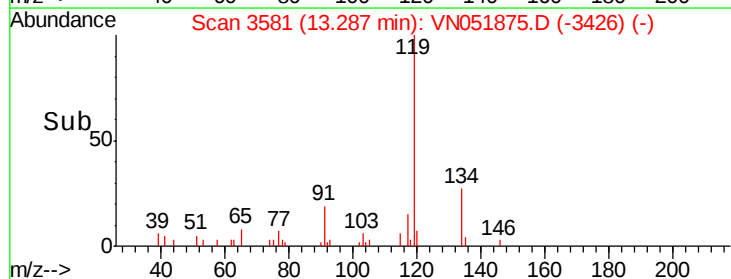
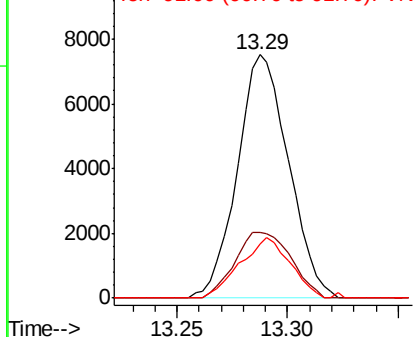


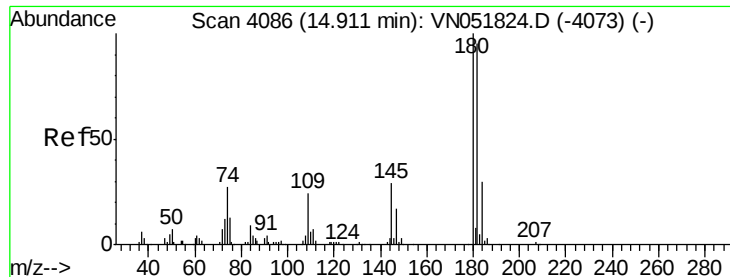
#82
p-Isopropyltoluene
Concen: 0.398 ug/l
RT: 13.29 min Scan# 3581
Delta R.T. -0.00 min
Lab File: VN051875.D
Acq: 15 Oct 2018 15:35

Tgt Ion:119 Resp: 12088
Ion Ratio Lower Upper
119 100
134 29.4 0.0 53.6
91 24.2 0.0 52.0



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

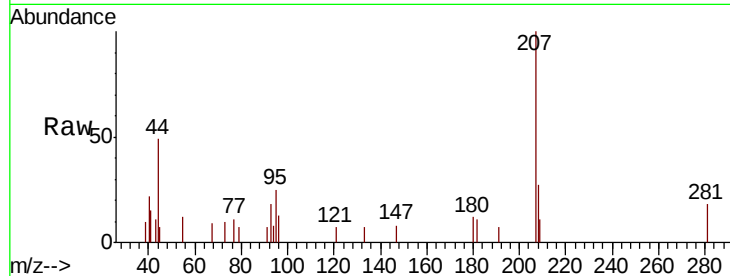




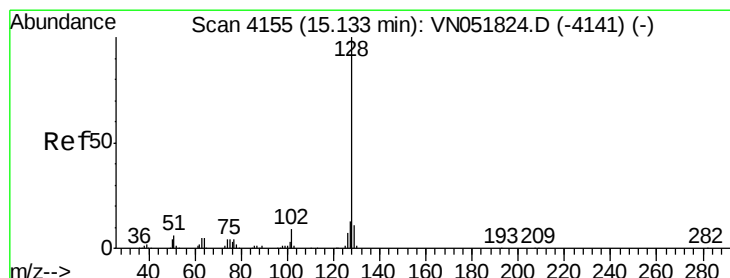
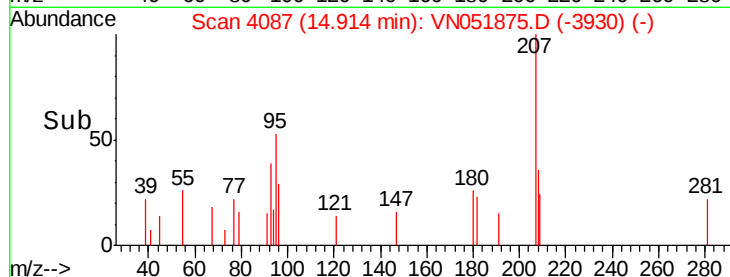
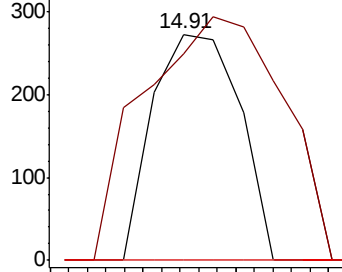
#89
 1,2,4-Trichlorobenzene
 Concen: 7.746 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN051875.D
 Acq: 15 Oct 2018 15:35

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 178
 Ion Ratio Lower Upper
 180 100
 182 173.0 77.7 116.5#
 145 0.0 23.4 35.2#

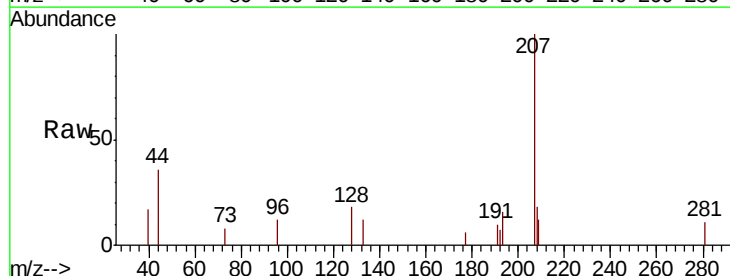


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V



#91
 Naphthalene
 Concen: 8.582 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.00 min
 Lab File: VN051875.D
 Acq: 15 Oct 2018 15:35

Tgt Ion:128 Resp: 942
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.1 15.1#
 129 0.0 8.4 12.6#



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

