

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101518\
 Data File : VN051876.D
 Acq On : 15 Oct 2018 16:00
 Operator : MD\SY
 Sample : J5512-04DL 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 16 00:47:24 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	127476	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	704860	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	575380	30.00	ug/l	0.00

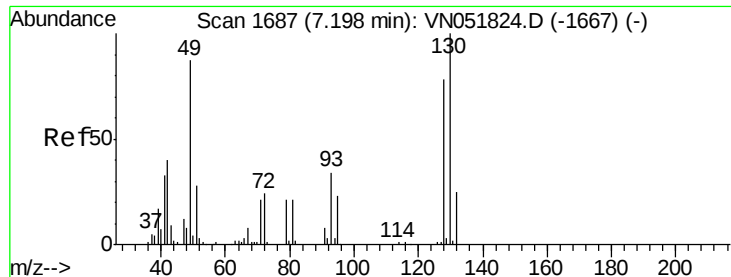
System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	237712	30.65	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.17%
60) 4-Bromofluorobenzene	12.40	95	199530	24.05	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	80.17%
63) Toluene-d8	10.09	98	792174	31.71	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	105.70%

Target Compounds

					Ovalue
5) Bromomethane	2.56	94	1644	0.238	ug/l 84
12) Methyl Acetate	4.33	43	956	0.262	ug/l # 48
13) Acrolein	3.25	56	68	0.283	ug/l # 1
15) Acetone	3.82	58	54925	136.405	ug/l 85
17) Allyl chloride	4.08	41	4641	0.666	ug/l 74
23) tert-Butyl Alcohol	4.76	59	90	0.210	ug/l # 100
25) Chloroform	7.37	83	42347	3.292	ug/l 92
30) 2-Butanone	6.84	43	1170	0.616	ug/l # 84
41) Bromodichloromethane	9.41	83	2290	0.236	ug/l # 94
45) 1,4-Dioxane	8.73	88	74	1.119	ug/l # 1
48) t-1,3-Dichloropropene	10.15	75	5126	0.542	ug/l # 1
51) Ethyl methacrylate	10.09	69	2426	0.326	ug/l 77
55) 2-Chloroethyl vinyl ether	10.09	63	715	0.225	ug/l # 1
56) Bromoform	12.40	173	1689	0.319	ug/l # 1
58) 4-Methyl-2-Pentanone	9.98	43	3740	0.971	ug/l # 90
62) Toluene	10.16	91	775821	27.142	ug/l 99
77) t-1,4-Dichloro-2-butene	12.40	75	101301	58.555	ug/l # 12
79) tert-butylbenzene	13.29	119	16826	0.657	ug/l 62
82) p-Isopropyltoluene	13.29	119	16826	0.561	ug/l 97
91) Naphthalene	15.14	128	321	8.550	ug/l # 70

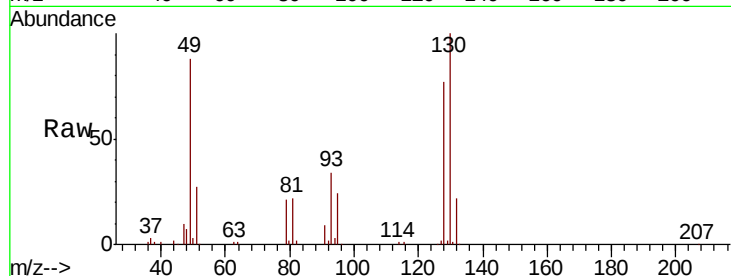
(#) = qualifier out of range (m) = manual integration (+) = signals summed



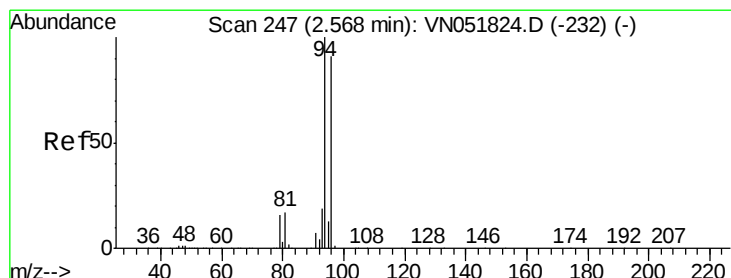
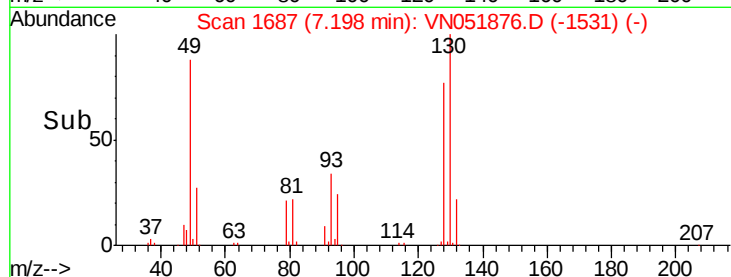
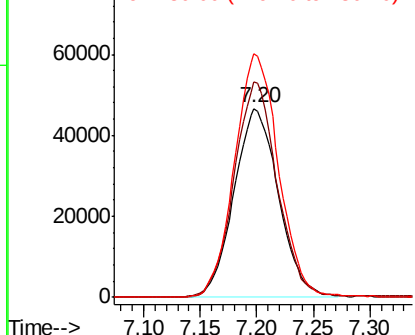
#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.20 min Scan# 1687
 Delta R.T. 0.00 min
 Lab File: VN051876.D
 Acq: 15 Oct 2018 16:00

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:128 Resp: 127476
 Ion Ratio Lower Upper
 128 100
 49 111.2 0.0 403.3
 130 127.8 0.0 326.0

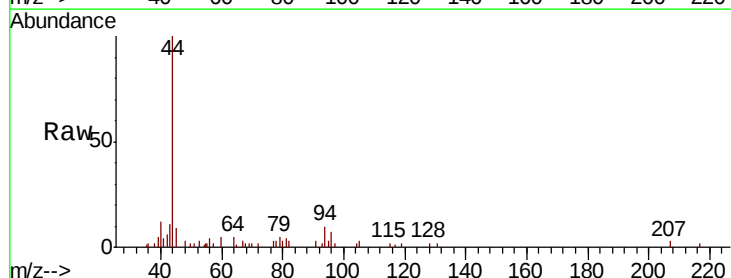


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VN
 Ion 130.00 (129.70 to 130.70): V

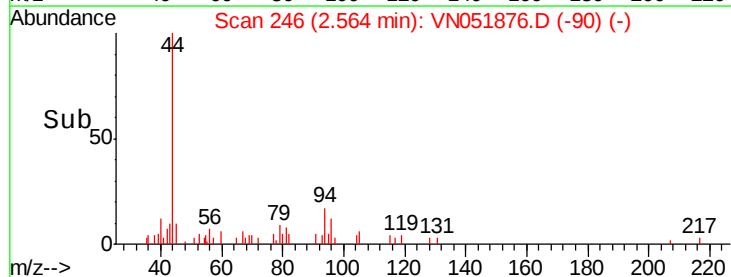
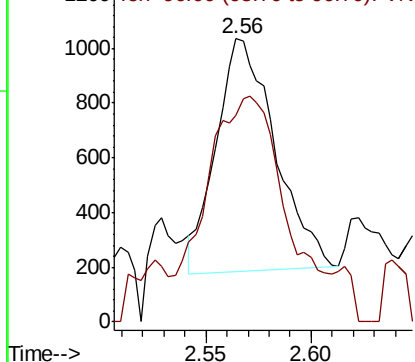


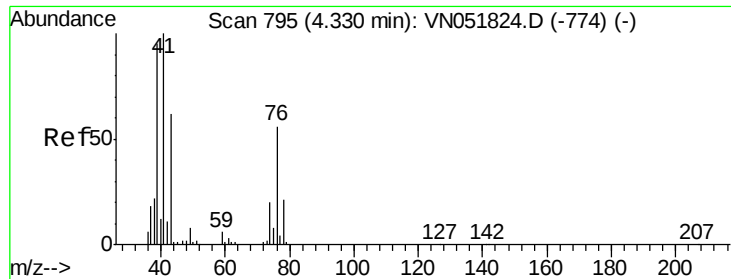
#5
 Bromomethane
 Concen: 0.238 ug/l
 RT: 2.56 min Scan# 246
 Delta R.T. 0.00 min
 Lab File: VN051876.D
 Acq: 15 Oct 2018 16:00

Tgt Ion: 94 Resp: 1644
 Ion Ratio Lower Upper
 94 100
 96 68.7 66.4 99.6



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

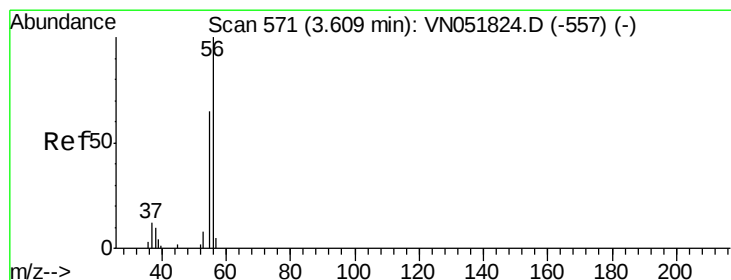
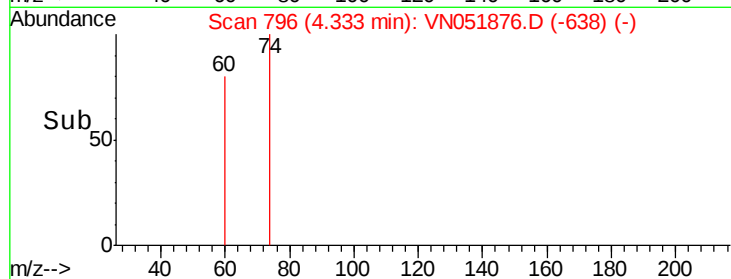
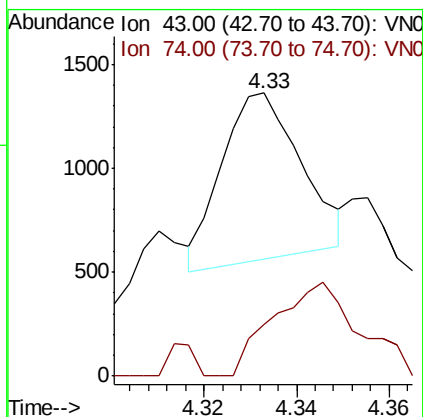
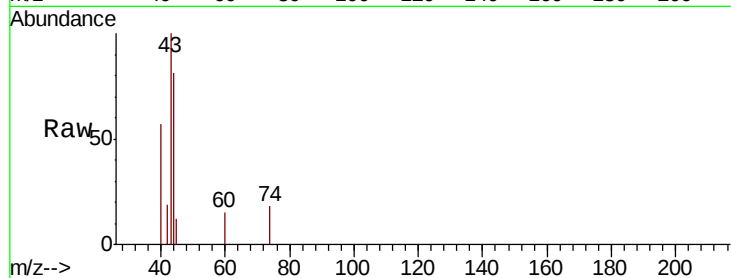




#12
Methvl Acetate
Concen: 0.262 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN051876.D
Acq: 15 Oct 2018 16:00

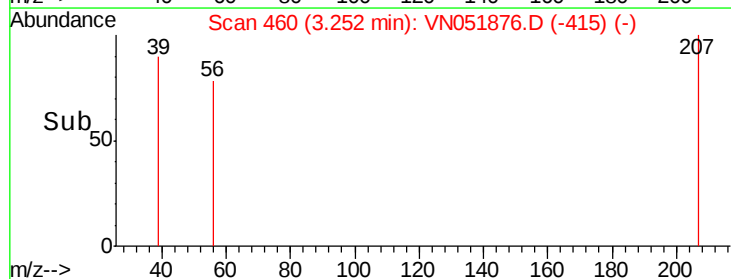
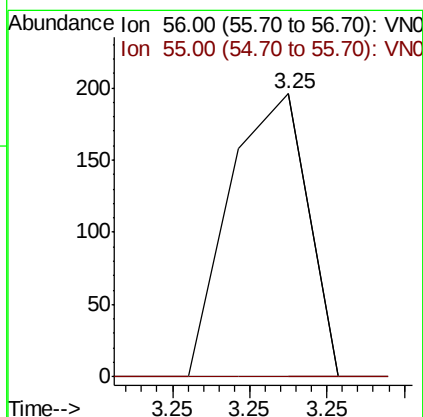
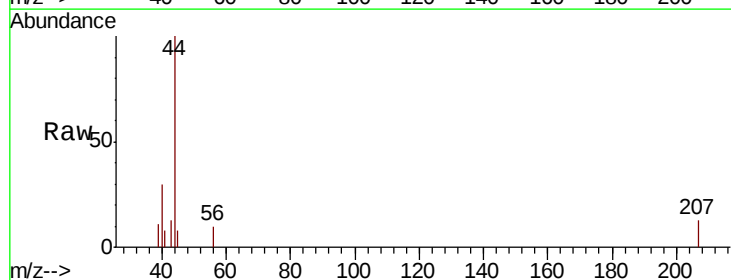
Instrument :
MSVOA_N
ClientSampled :

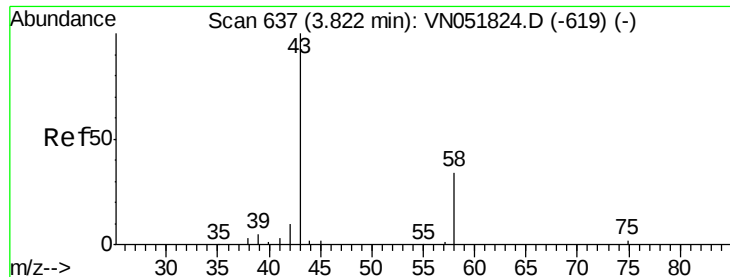
Tot Ion: 43 Resp: 956
Ion Ratio Lower Upper
43 100
74 0.0 21.8 32.6#



#13
Acrolein
Concen: 0.283 ug/l
RT: 3.25 min Scan# 460
Delta R.T. -0.36 min
Lab File: VN051876.D
Acq: 15 Oct 2018 16:00

Tgt Ion: 56 Resp: 68
Ion Ratio Lower Upper
56 100
55 167.6 64.0 96.0#





#15

Acetone

Concen: 136.405 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN051876.D

Acq: 15 Oct 2018 16:00

Instrument :

MSVOA_N

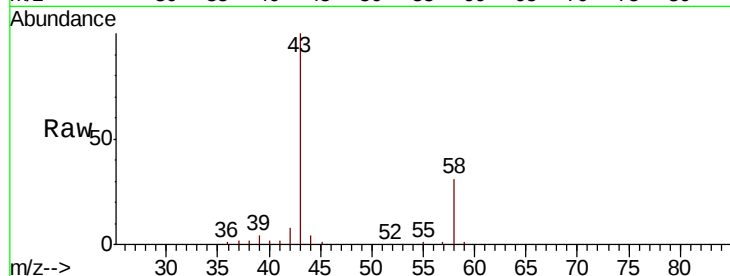
ClientSampled :

Tot Ion: 58 Resp: 54925

Ion Ratio Lower Upper

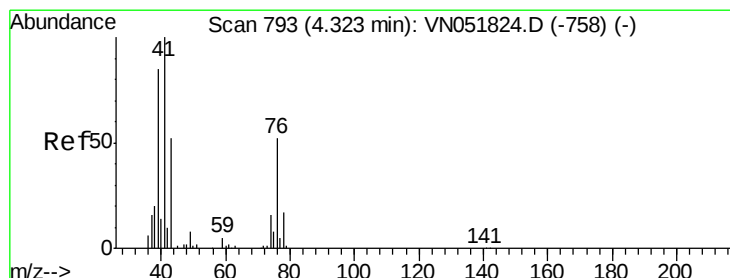
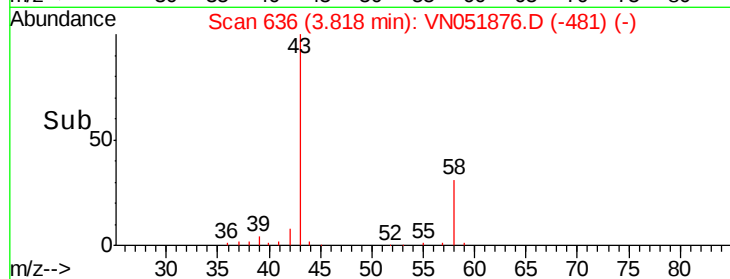
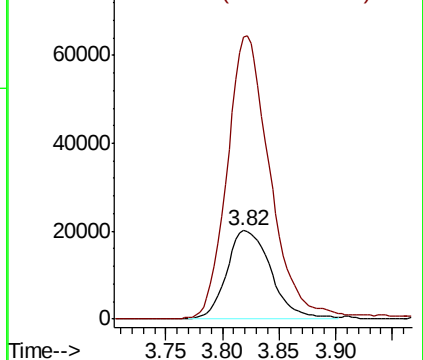
58 100

43 318.2 232.2 348.2



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#17

Allyl chloride

Concen: 0.666 ug/l

RT: 4.08 min Scan# 717

Delta R.T. -0.25 min

Lab File: VN051876.D

Acq: 15 Oct 2018 16:00

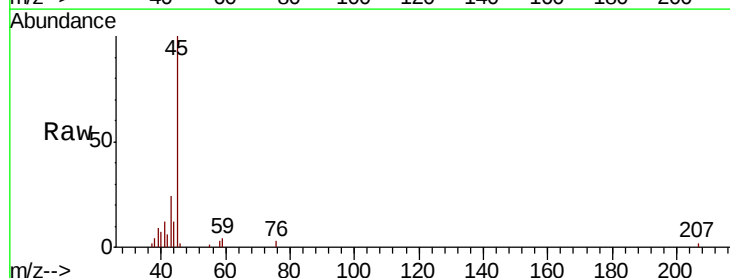
Tgt Ion: 41 Resp: 4641

Ion Ratio Lower Upper

41 100

39 87.5 32.6 97.8

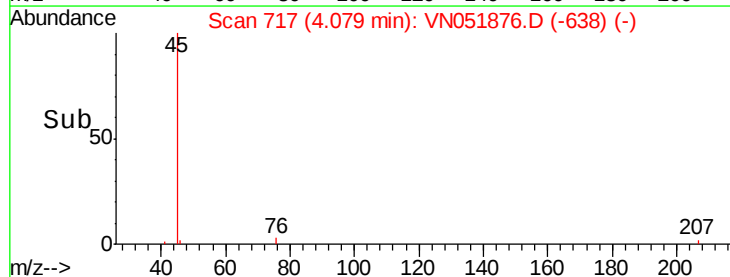
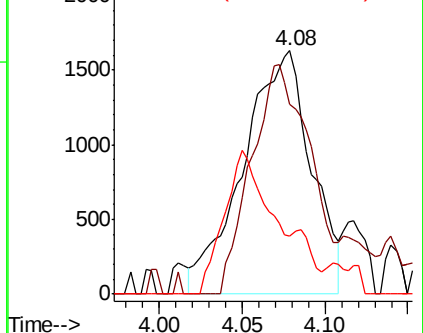
76 27.0 20.2 60.5

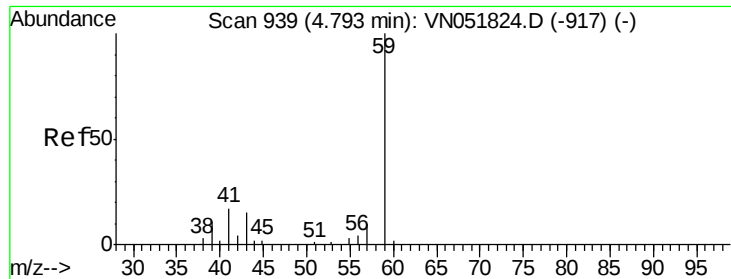


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 76.00 (75.70 to 76.70): VN0



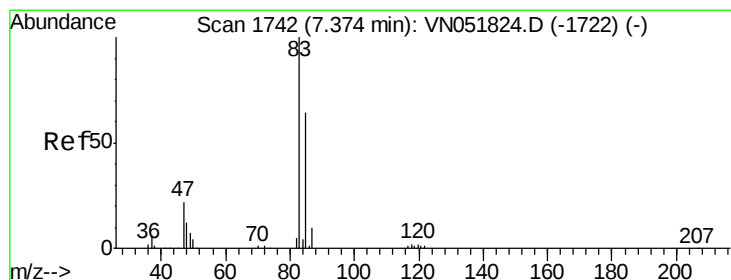
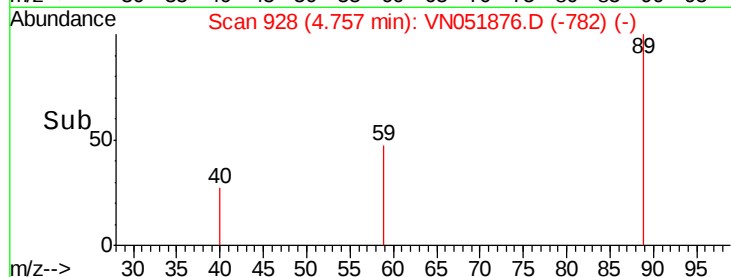
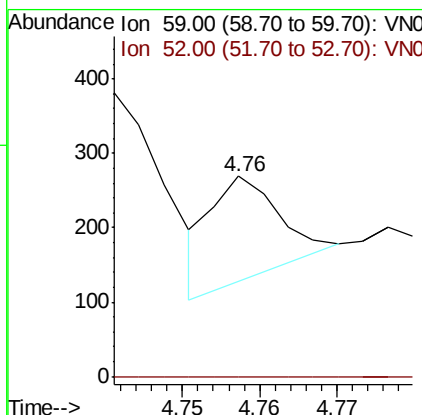
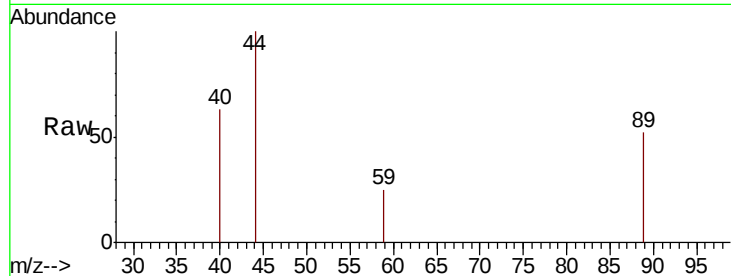


#23

tert-Butyl Alcohol
 Concen: 0.210 ug/l
 RT: 4.76 min Scan# 928
 Delta R.T. -0.03 min
 Lab File: VN051876.D
 Acq: 15 Oct 2018 16:00

Instrument :
 MSVOA_N
 ClientSampled :

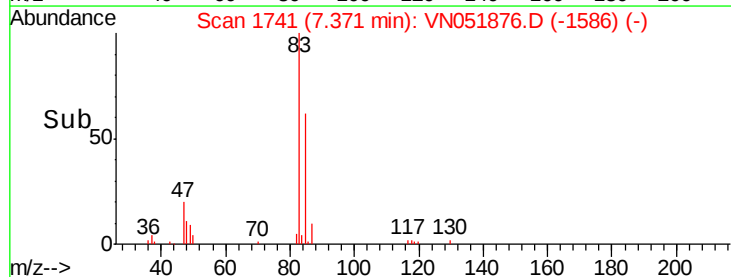
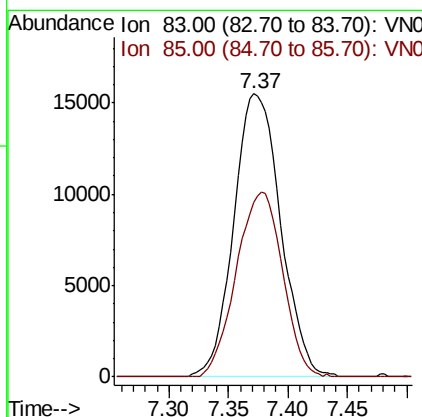
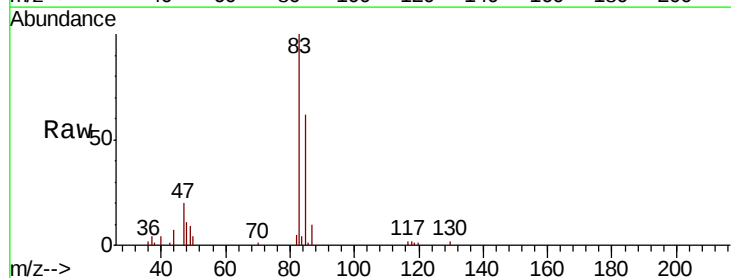
Tot Ion: 59 Resp: 90
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0

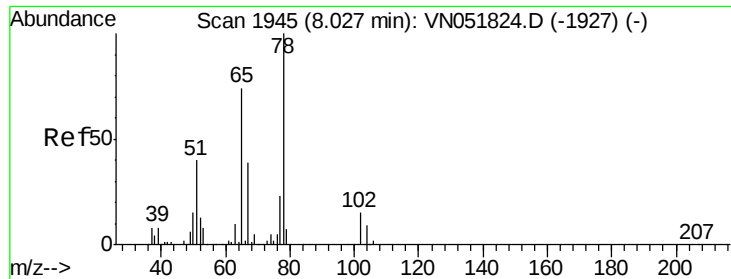


#25

Chloroform
 Concen: 3.292 ug/l
 RT: 7.37 min Scan# 1741
 Delta R.T. -0.00 min
 Lab File: VN051876.D
 Acq: 15 Oct 2018 16:00

Tgt Ion: 83 Resp: 42347
 Ion Ratio Lower Upper
 83 100
 85 61.8 54.6 82.0

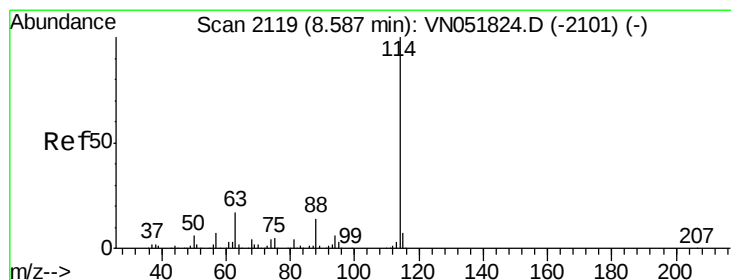
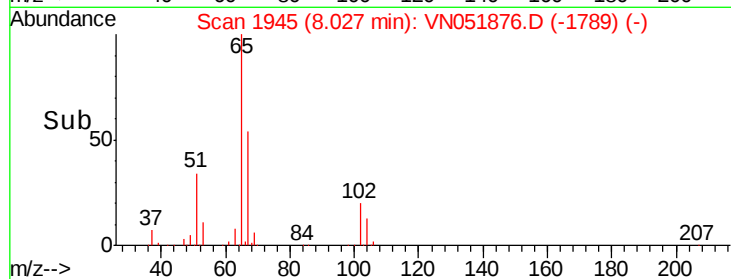
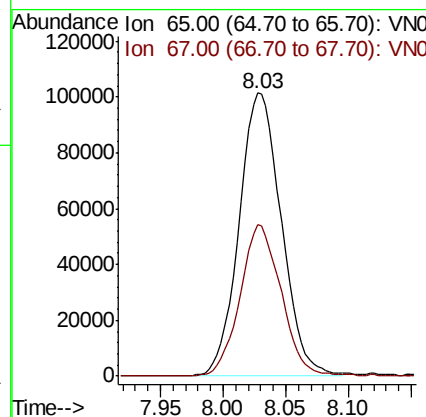
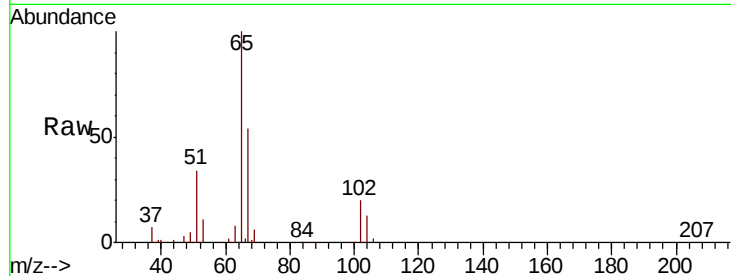




#27
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN051876.D
 Acq: 15 Oct 2018 16:00

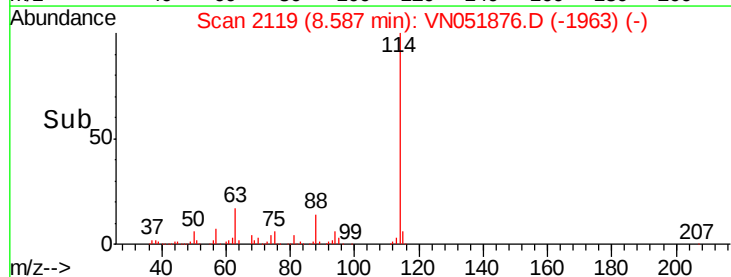
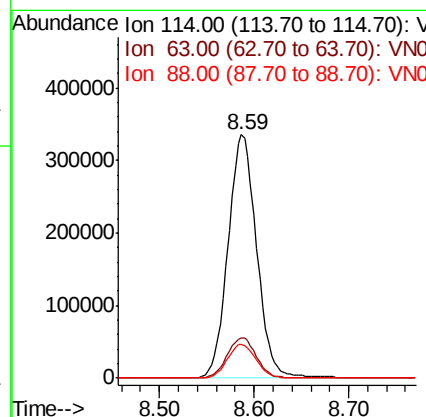
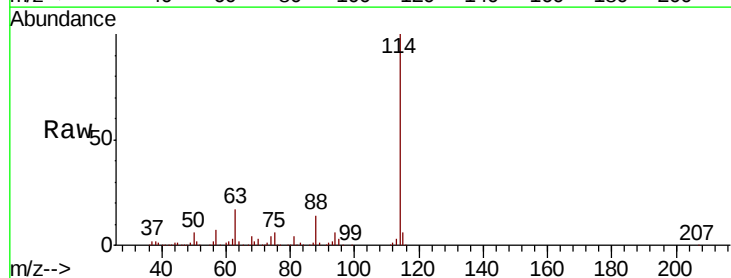
Instrument :
 MSVOA_N
 ClientSampled :

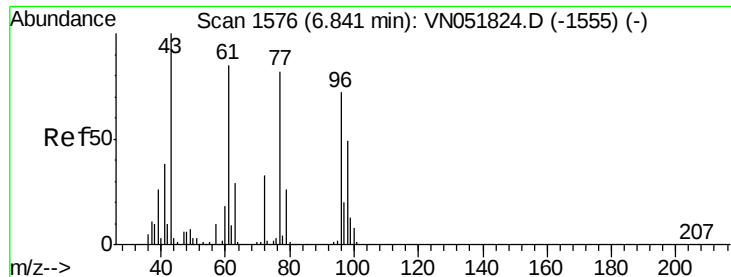
Tot Ion: 65 Resp: 237712
 Ion Ratio Lower Upper
 65 100
 67 52.1 41.8 62.8



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051876.D
 Acq: 15 Oct 2018 16:00

Tgt Ion: 114 Resp: 704860
 Ion Ratio Lower Upper
 114 100
 63 16.8 16.2 24.2
 88 14.0 12.2 18.4

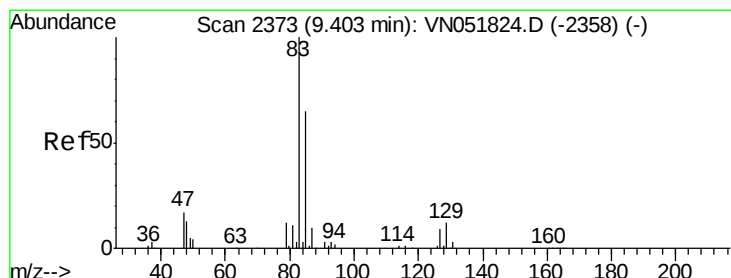
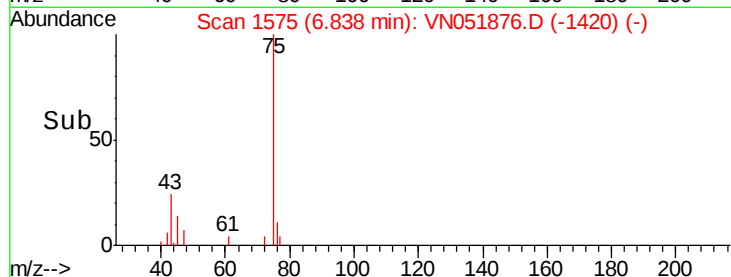
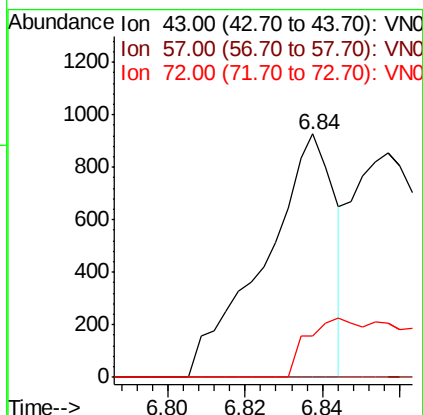
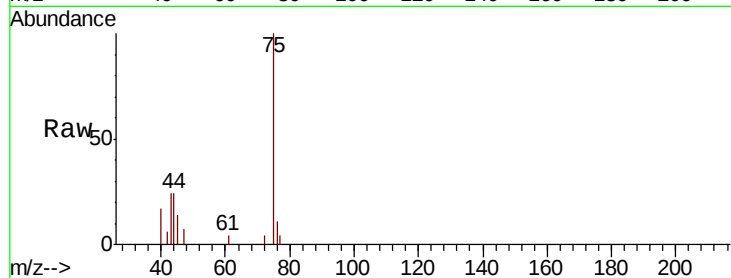




#30
2-Butanone
Concen: 0.616 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. -0.00 min
Lab File: VN051876.D
Acq: 15 Oct 2018 16:00

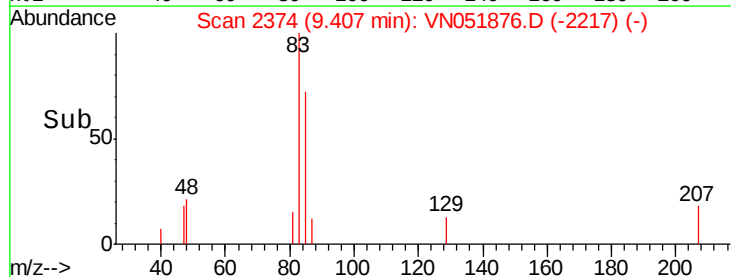
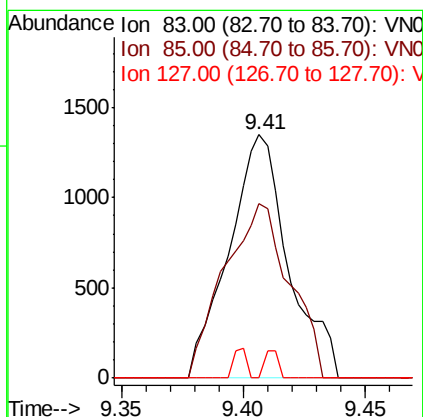
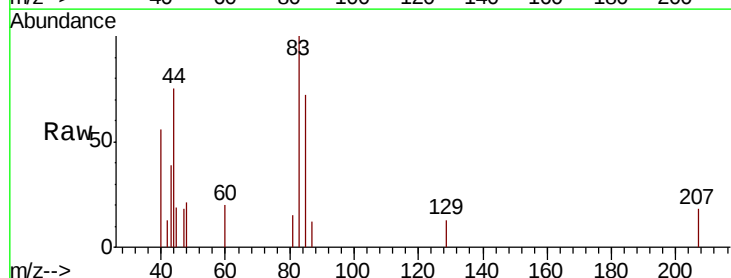
Instrument :
MSVOA_N
ClientSampled :

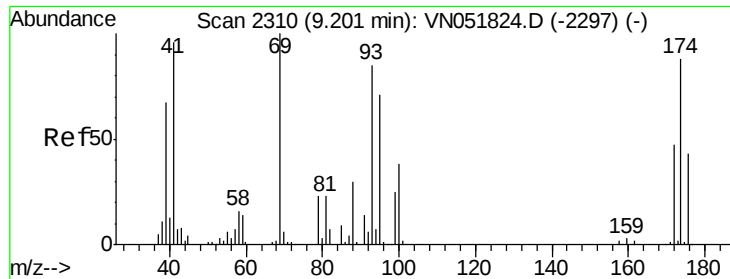
Tot Ion: 43 Resp: 1170
Ion Ratio Lower Upper
43 100
57 0.0 4.5 6.7#
72 18.9 21.5 32.3#



#41
Bromodichloromethane
Concen: 0.236 ug/l
RT: 9.41 min Scan# 2374
Delta R.T. 0.00 min
Lab File: VN051876.D
Acq: 15 Oct 2018 16:00

Tgt Ion: 83 Resp: 2290
Ion Ratio Lower Upper
83 100
85 71.8 55.7 83.5
127 0.0 8.2 12.4#





#45

1,4-Dioxane

Concen: 1.119 ug/l

RT: 8.73 min Scan# 2164

Delta R.T. -0.47 min

Lab File: VN051876.D

Acq: 15 Oct 2018 16:00

Instrument :

MSVOA_N

ClientSampled :

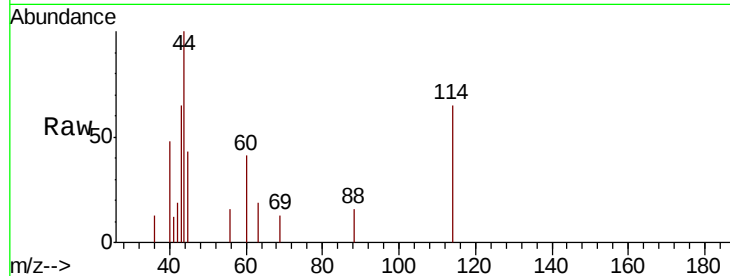
Tot Ion: 88 Resp: 74

Ion Ratio Lower Upper

88 100

43 202.7 26.2 39.2#

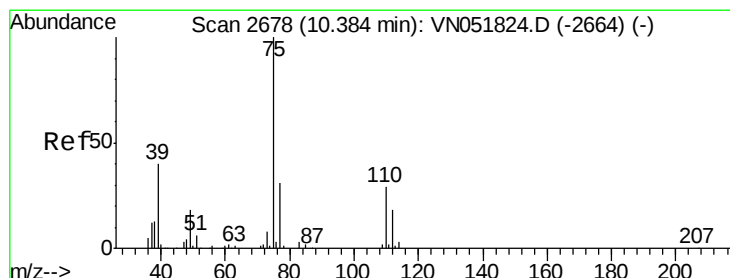
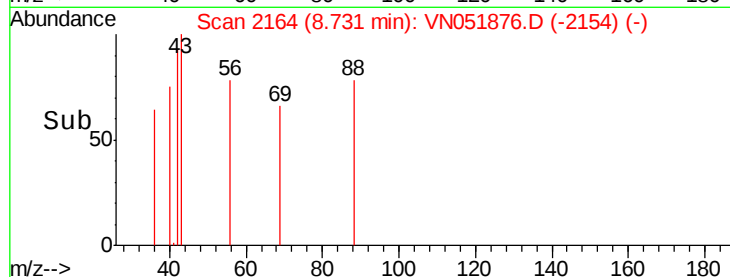
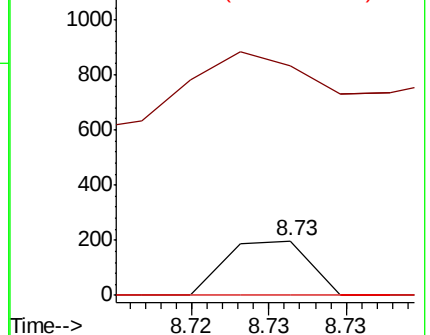
58 0.0 65.6 98.4#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#48

t-1,3-Dichloropropene

Concen: 0.542 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.23 min

Lab File: VN051876.D

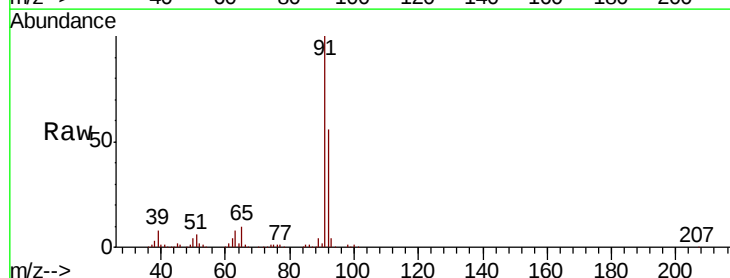
Acq: 15 Oct 2018 16:00

Tgt Ion: 75 Resp: 5126

Ion Ratio Lower Upper

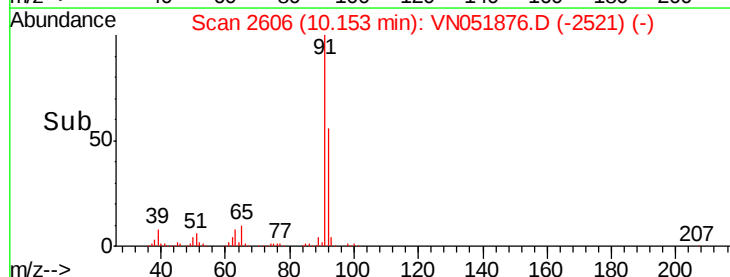
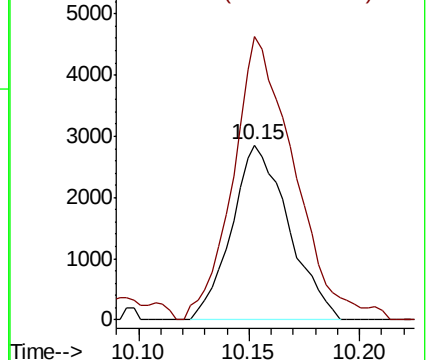
75 100

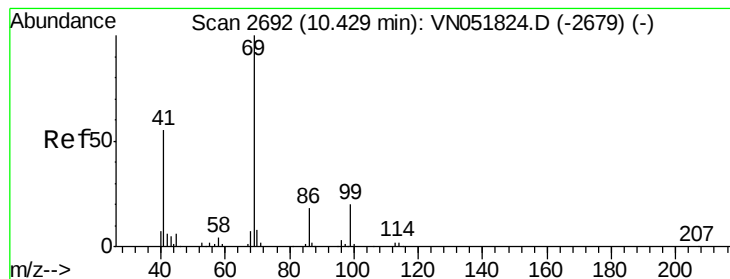
77 154.0 24.6 37.0#



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





#51

Ethyl methacrylate

Concen: 0.326 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.34 min

Lab File: VN051876.D

Acq: 15 Oct 2018 16:00

Instrument :

MSVOA_N

ClientSampleId :

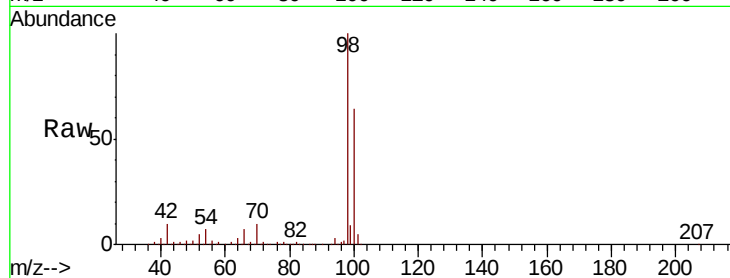
Tot Ion: 69 Resp: 2426

Ion Ratio Lower Upper

69 100

41 44.8 34.4 103.1

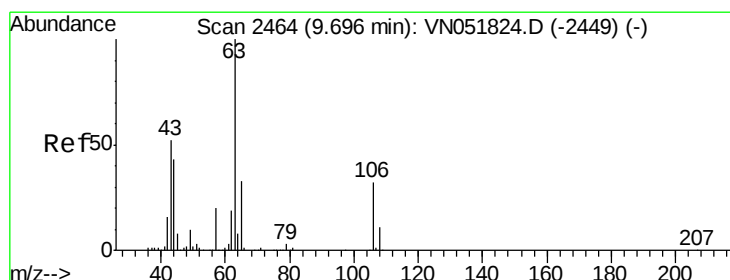
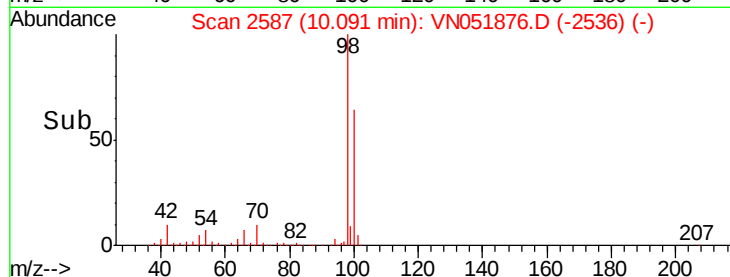
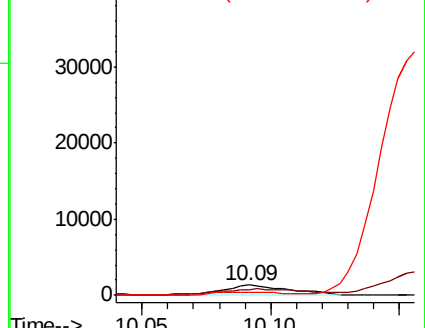
39 27.3 16.3 48.8



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) (-)



#55

2-Chloroethyl vinyl ether

Concen: 0.225 ug/l

RT: 10.09 min Scan# 2588

Delta R.T. 0.40 min

Lab File: VN051876.D

Acq: 15 Oct 2018 16:00

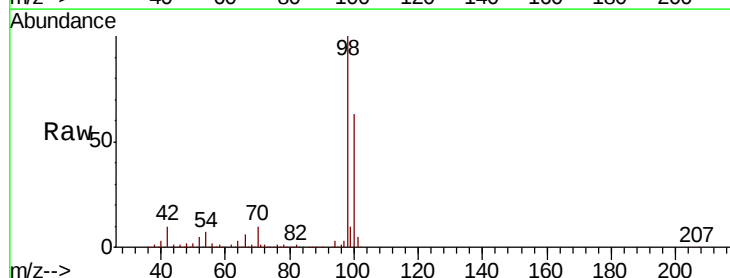
Tgt Ion: 63 Resp: 715

Ion Ratio Lower Upper

63 100

65 282.1 25.4 38.0#

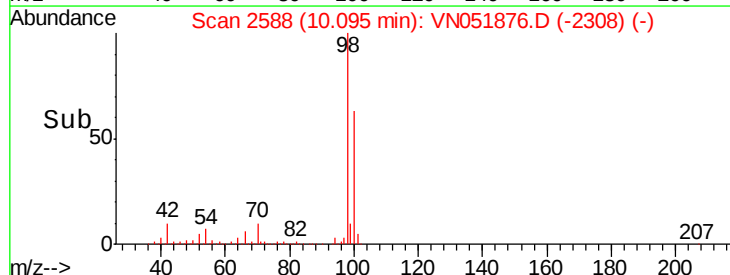
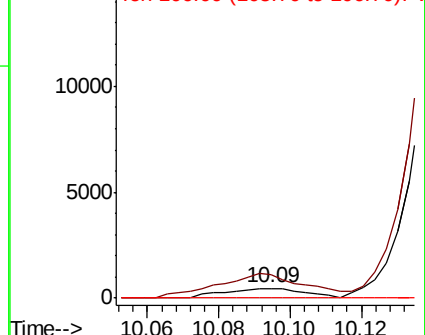
106 0.0 21.2 31.8#

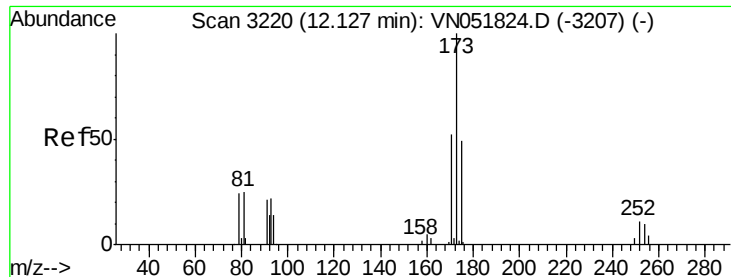


Abundance Ion 63.00 (62.70 to 63.70): VN051824.D (-2449) (-)

Ion 65.00 (64.70 to 65.70): VN051824.D (-2449) (-)

Ion 106.00 (105.70 to 106.70): VN051824.D (-2449) (-)

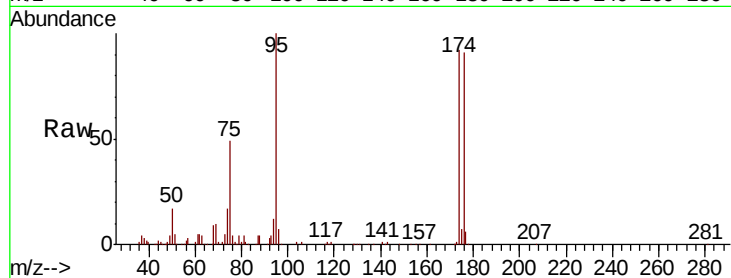




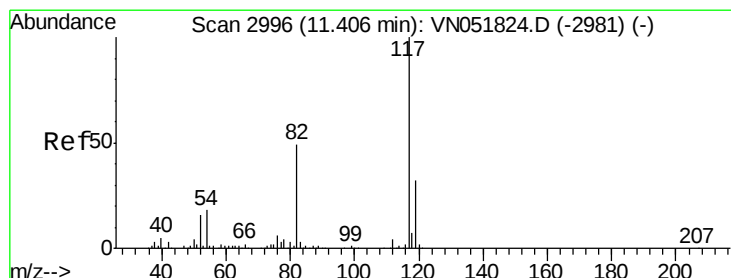
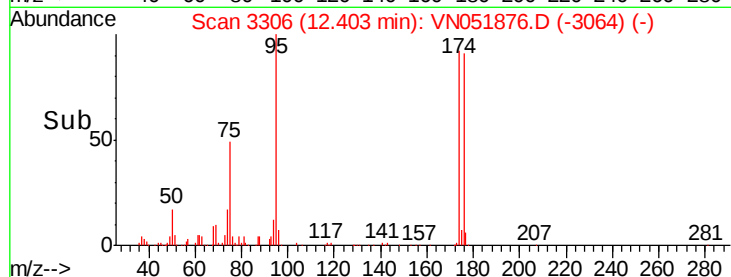
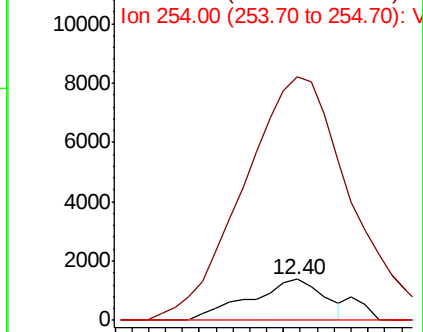
#56
Bromoform
Concen: 0.319 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN051876.D
Acq: 15 Oct 2018 16:00

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:173 Resp: 1689
Ion Ratio Lower Upper
173 100
175 853.6 35.8 53.8#
254 0.0 8.6 13.0#

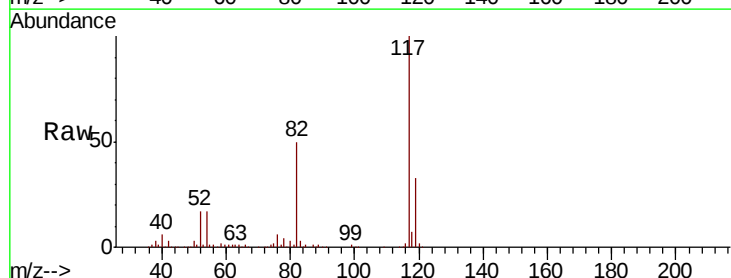


Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V

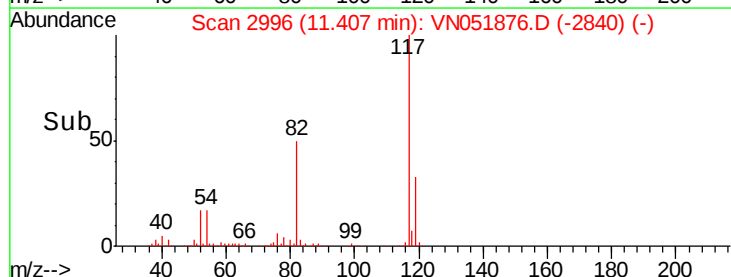
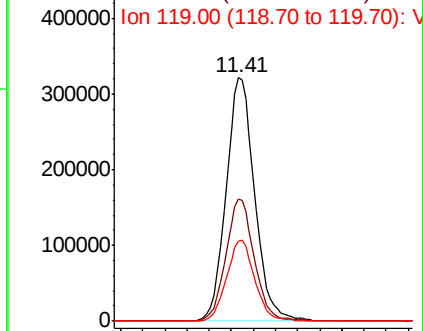


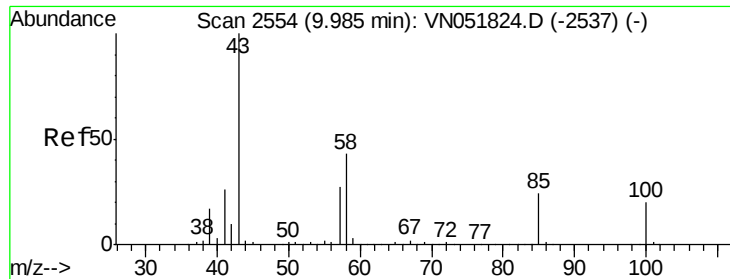
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051876.D
Acq: 15 Oct 2018 16:00

Tgt Ion:117 Resp: 575380
Ion Ratio Lower Upper
117 100
82 49.9 44.1 66.1
119 32.8 25.8 38.8



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

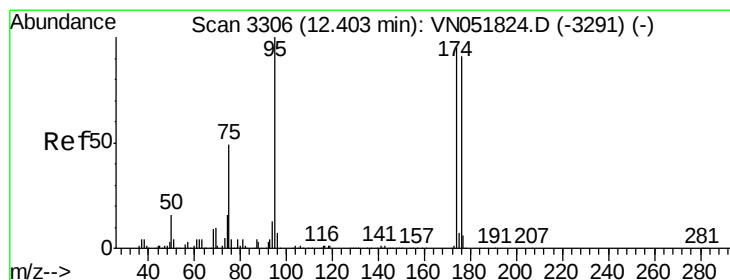
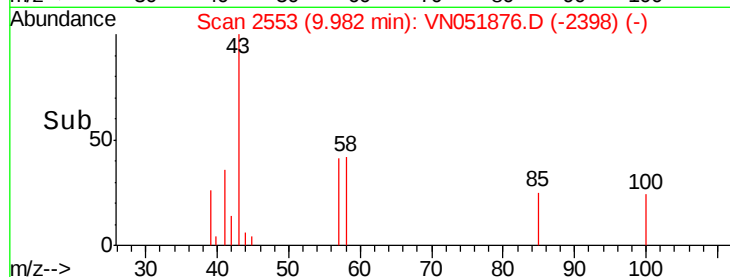
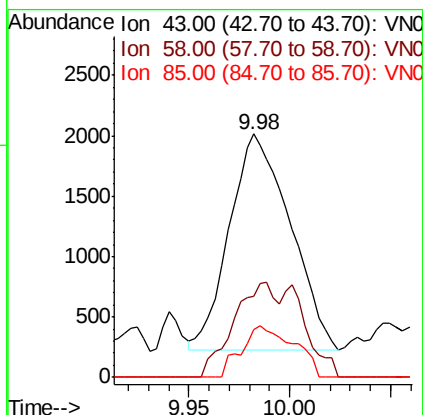
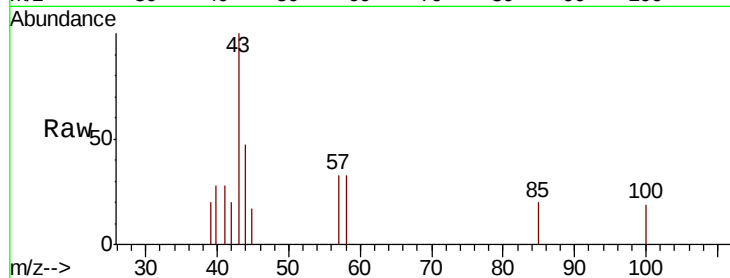




#58
4-Methyl-2-Pentanone
Concen: 0.971 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. -0.00 min
Lab File: VN051876.D
Acq: 15 Oct 2018 16:00

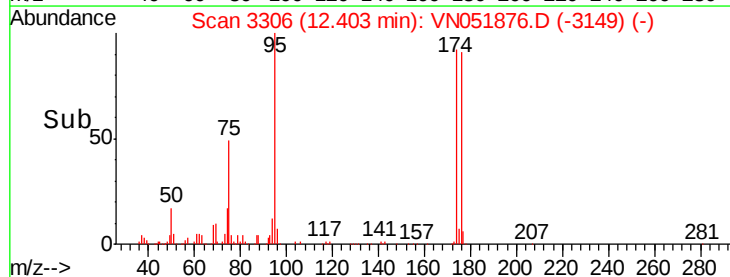
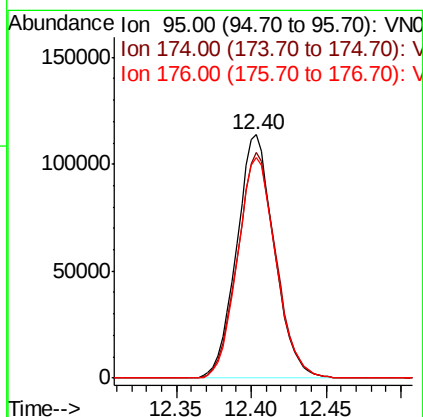
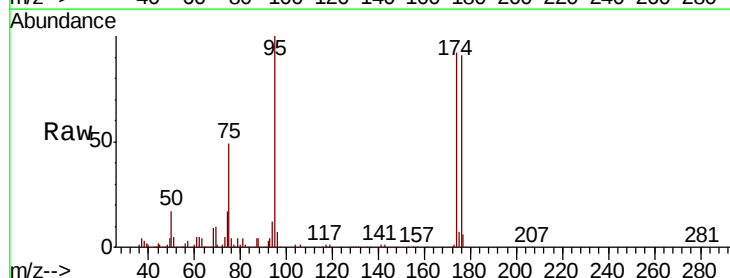
Instrument :
MSVOA_N
ClientSampled :

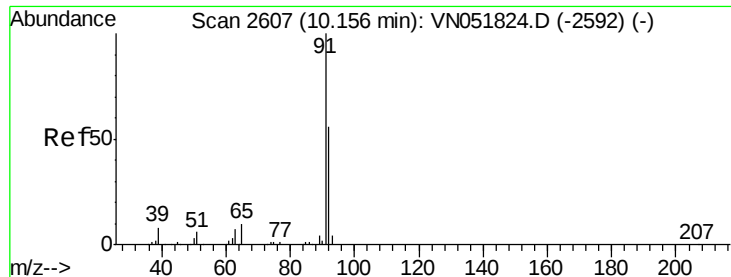
Tot Ion: 43 Resp: 3740
Ion Ratio Lower Upper
43 100
58 32.0 29.3 43.9
85 8.8 12.6 18.8#



#60
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051876.D
Acq: 15 Oct 2018 16:00

Tgt Ion: 95 Resp: 199530
Ion Ratio Lower Upper
95 100
174 94.4 73.5 110.3
176 92.3 70.2 105.2





#62

Toluene

Concen: 27.142 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN051876.D

Acq: 15 Oct 2018 16:00

Instrument :

MSVOA_N

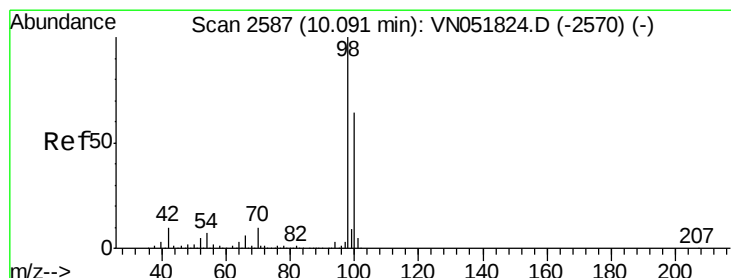
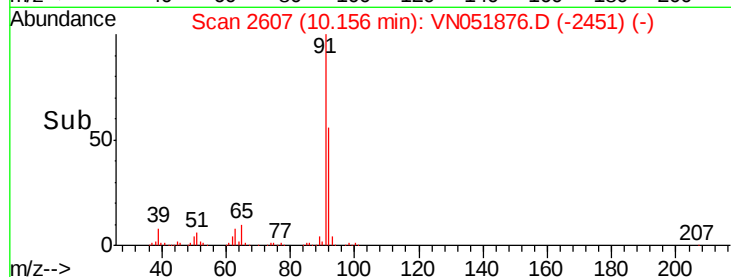
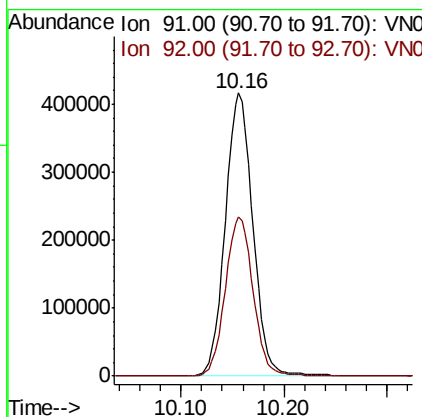
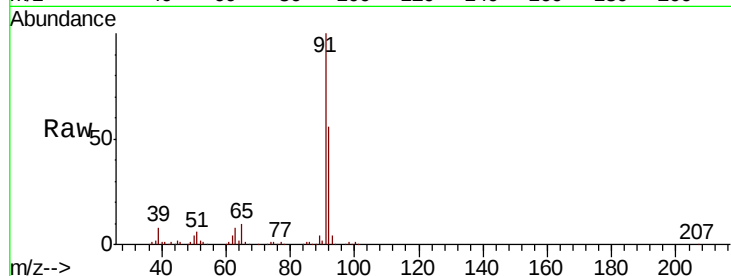
ClientSampleId :

Tot Ion: 91 Resp: 775821

Ion Ratio Lower Upper

91 100

92 56.6 44.6 66.8



#63

Toluene-d8

Concen: 27.142 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051876.D

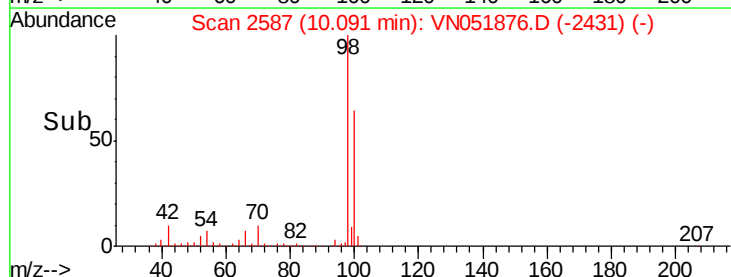
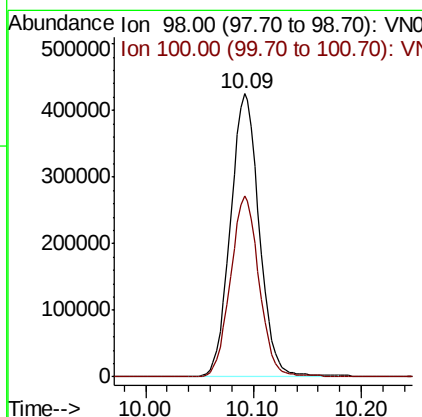
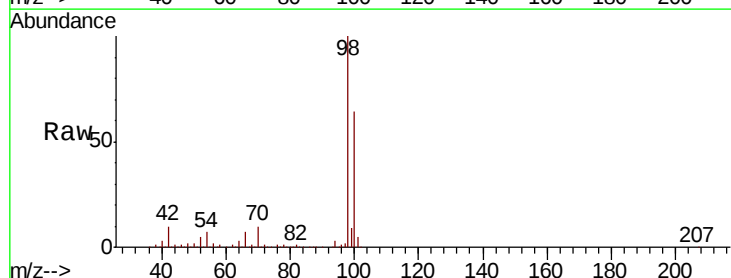
Acq: 15 Oct 2018 16:00

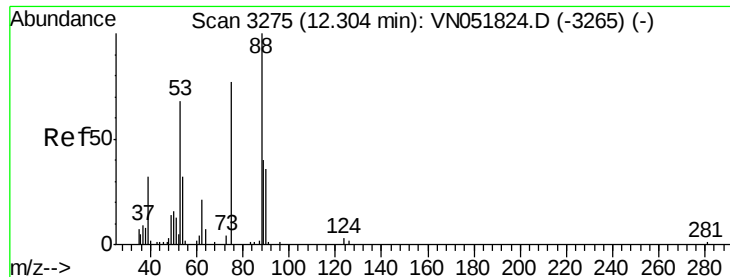
Tgt Ion: 98 Resp: 792174

Ion Ratio Lower Upper

98 100

100 63.1 50.8 76.2





#77

t-1,4-Dichloro-2-butene

Concen: 58.555 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051876.D

Acq: 15 Oct 2018 16:00

Instrument :

MSVOA_N

ClientSampleId :

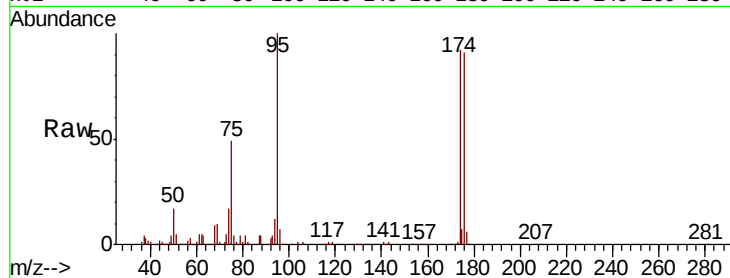
Tot Ion: 75 Resp: 101301

Ion Ratio Lower Upper

75 100

53 0.0 46.3 138.9#

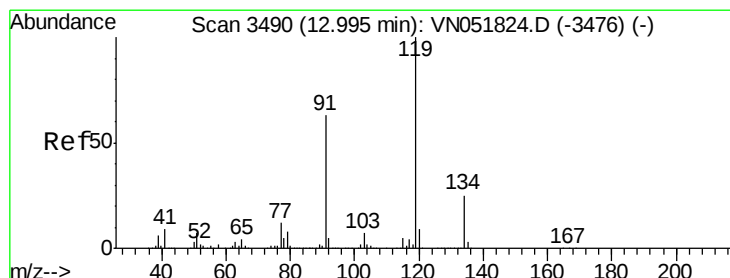
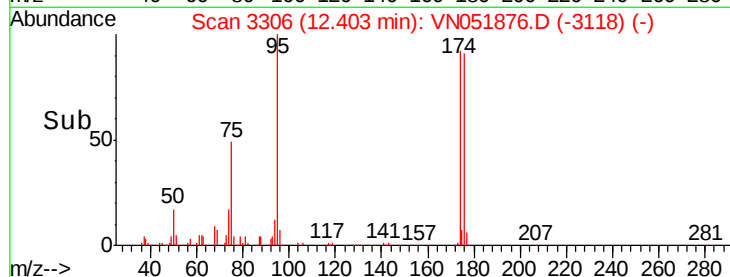
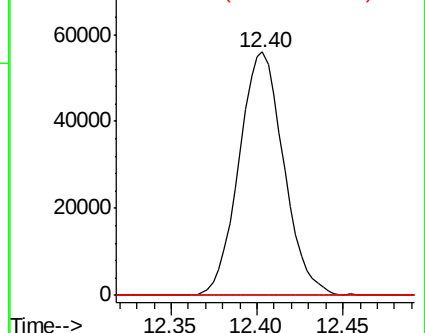
89 0.0 24.6 73.8#



Abundance Ion 75.00 (74.70 to 75.70): VN051876.D (-3306) (-)

Ion 53.00 (52.70 to 53.70): VN051876.D (-3306) (-)

Ion 89.00 (88.70 to 89.70): VN051876.D (-3306) (-)



#79

tert-butylbenzene

Concen: 0.657 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.30 min

Lab File: VN051876.D

Acq: 15 Oct 2018 16:00

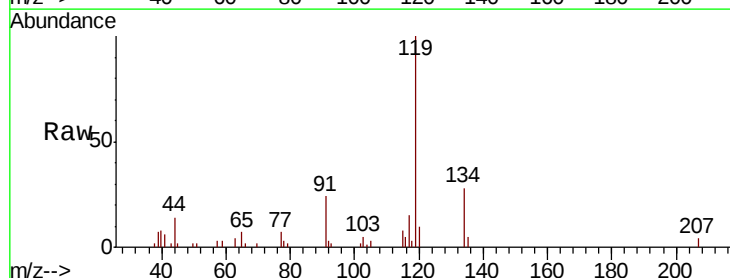
Tgt Ion: 119 Resp: 16826

Ion Ratio Lower Upper

119 100

91 27.7 0.0 131.6

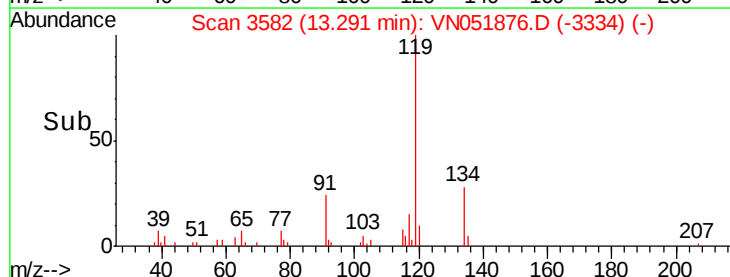
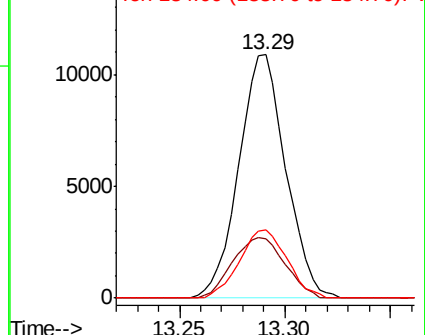
134 28.5 0.0 46.2

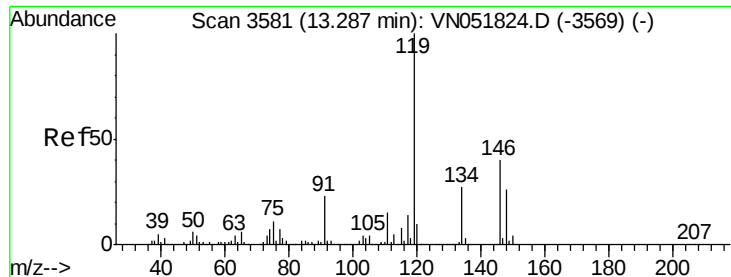


Abundance Ion 119.00 (118.70 to 119.70): VN051876.D (-3582) (-)

Ion 91.00 (90.70 to 91.70): VN051876.D (-3582) (-)

Ion 134.00 (133.70 to 134.70): VN051876.D (-3582) (-)

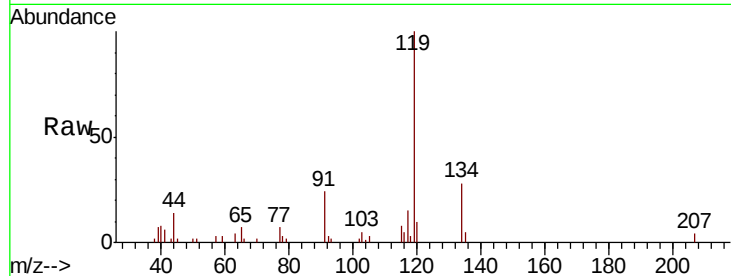




#82
p-Isopropyltoluene
Concen: 0.561 ug/l
RT: 13.29 min Scan# 3582
Delta R.T. 0.00 min
Lab File: VN051876.D
Acq: 15 Oct 2018 16:00

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
119	100		
134	28.5	0.0	53.6
91	27.7	0.0	52.0

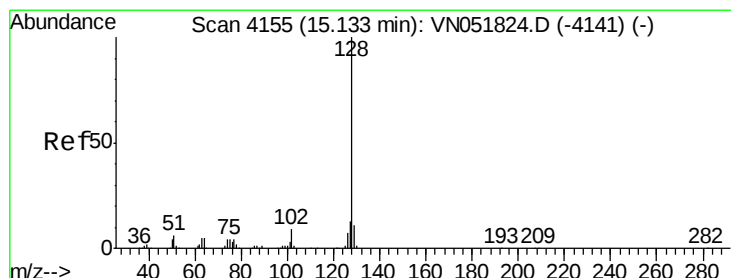
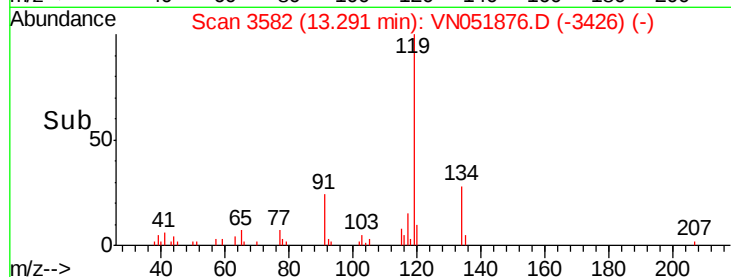
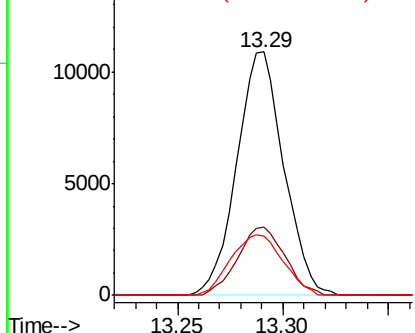


Abundance

Ion 119.00 (118.70 to 119.70): V

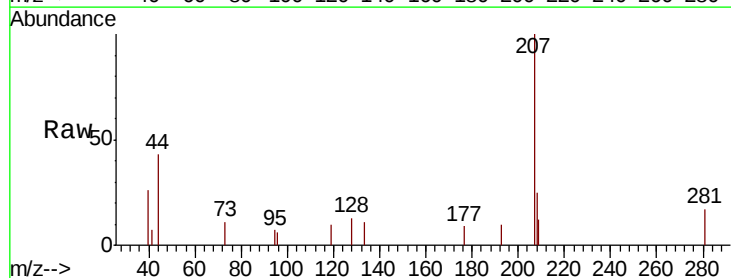
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#91
Naphthalene
Concen: 8.550 ug/l
RT: 15.14 min Scan# 4158
Delta R.T. 0.01 min
Lab File: VN051876.D
Acq: 15 Oct 2018 16:00

Tgt 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

