

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102418\
 Data File : VN051982.D
 Acq On : 24 Oct 2018 12:40
 Operator : MD\SY
 Sample : J5643-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 28

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

Quant Time: Oct 24 14:31:41 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	165978	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	915811	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	778404	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	290572	28.77	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.90%
60) 4-Bromofluorobenzene	12.40	95	278426	24.80	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	82.67%
63) Toluene-d8	10.09	98	1022218	30.24	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.80%

Target Compounds

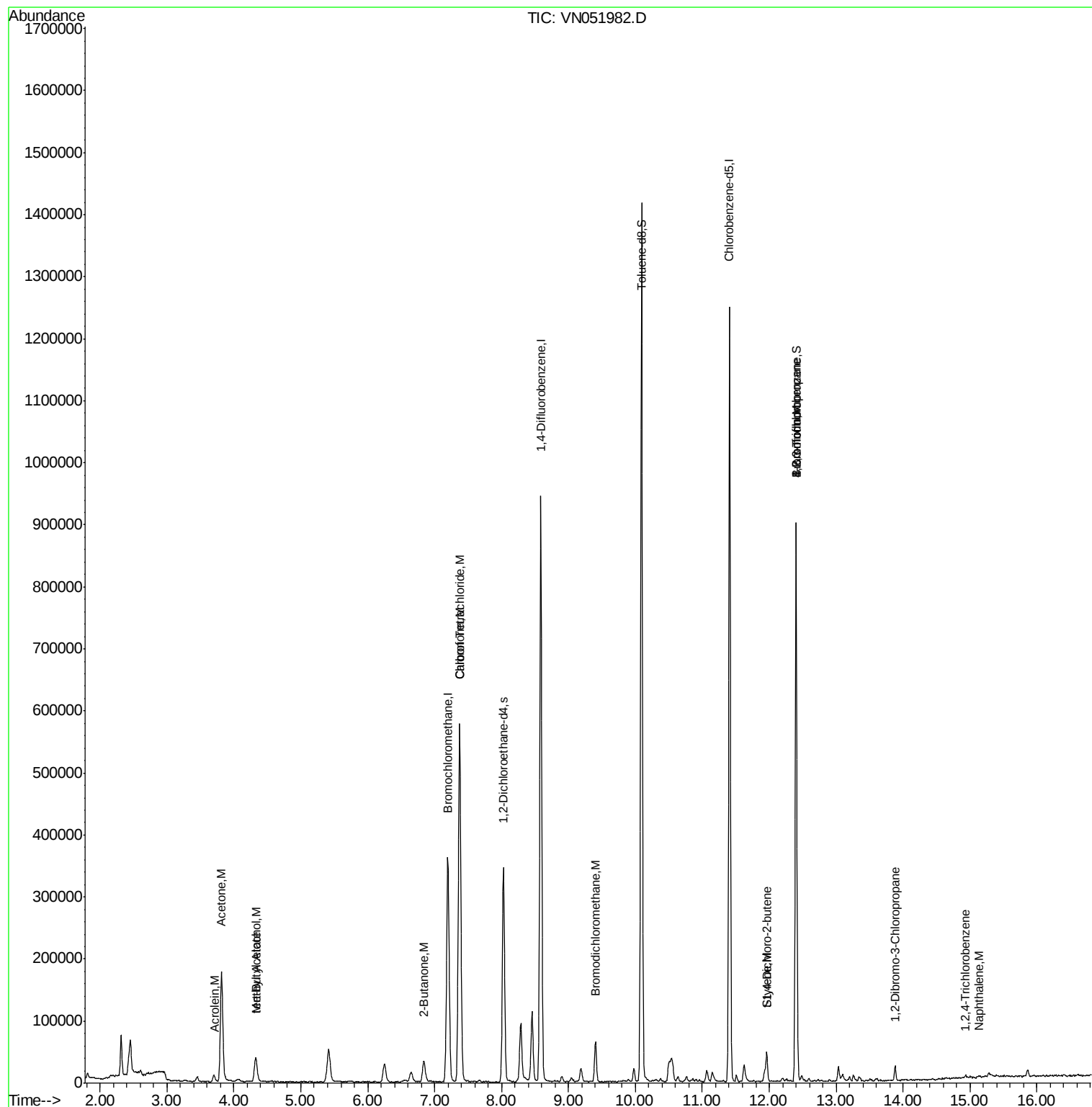
					Ovalue
12) Methyl Acetate	4.33	43	73334	15.454	ug/l 97
13) Acrolein	3.72	56	124	0.397	ug/l 97
15) Acetone	3.82	58	98213	187.330	ug/l 100
23) tert-Butyl Alcohol	4.32	59	2494	4.465	ug/l # 100
25) Chloroform	7.37	83	625412	37.339	ug/l 98
30) 2-Butanone	6.84	43	53733	21.778	ug/l # 83
33) Carbon Tetrachloride	7.37	117	7747	0.547	ug/l # 79
41) Bromodichloromethane	9.40	83	42874	3.401	ug/l # 94
56) Bromoform	12.40	173	2843	0.413	ug/l # 1
69) Styrene	11.97	104	23413	0.893	ug/l # 87
72) 1,2,3-Trichloropropane	12.40	75	138335	19.548	ug/l 1
77) t-1,4-Dichloro-2-butene	11.96	75	800	0.342	ug/l 75
88) 1,2-Dibromo-3-Chloropropan	13.87	75	511	0.380	ug/l # 3
89) 1,2,4-Trichlorobenzene	14.91	180	512	7.768	ug/l # 8
91) Naphthalene	15.13	128	2125	8.615	ug/l # 93

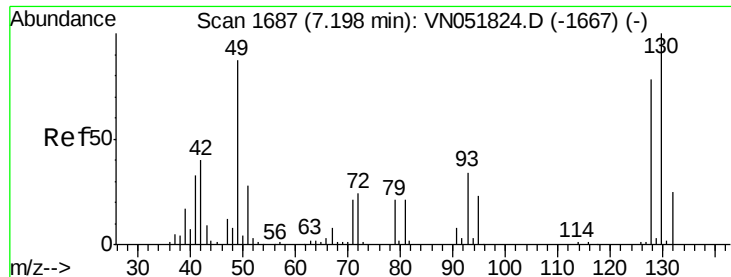
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Oct 12 10:23:44 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN051982.D

Acq: 24 Oct 2018 12:40

Instrument :

MSVOA_N

ClientSampleId :

002M-35TH-AVE-(SEP)

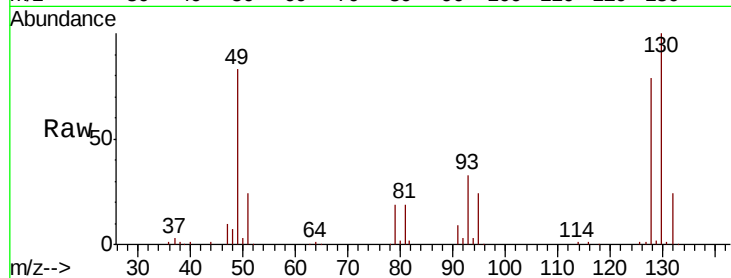
Tot Ion:128 Resp: 165978

Ion Ratio Lower Upper

128 100

49 102.7 0.0 403.3

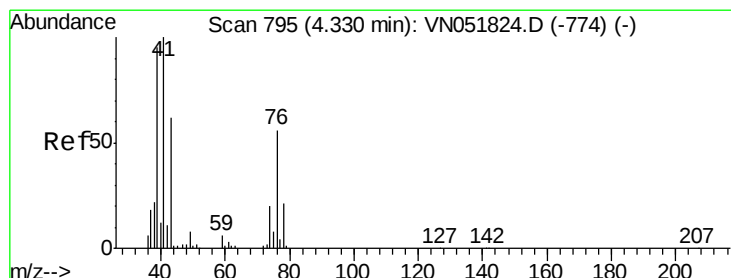
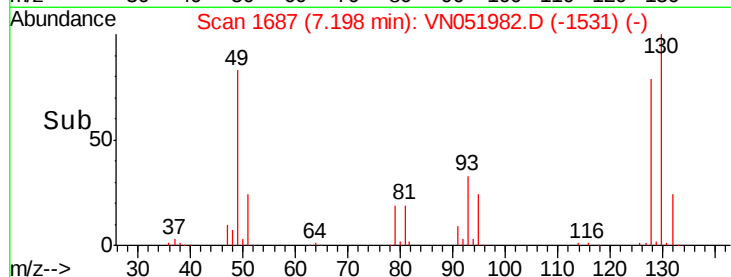
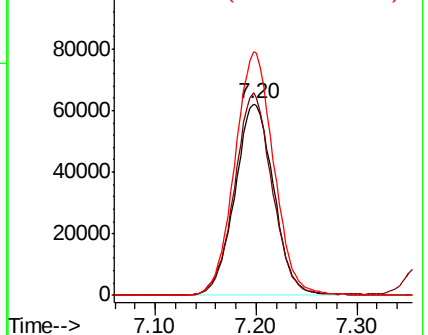
130 127.6 0.0 326.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#12

Methyl Acetate

Concen: 15.454 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN051982.D

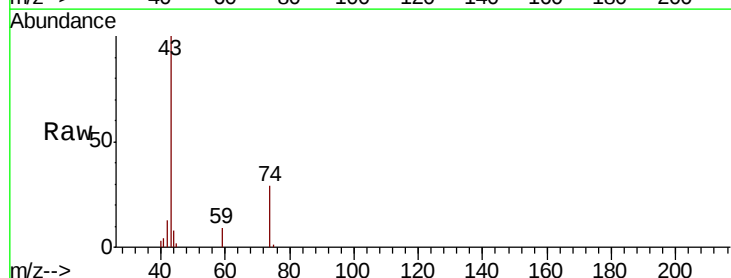
Acq: 24 Oct 2018 12:40

Tgt Ion: 43 Resp: 73334

Ion Ratio Lower Upper

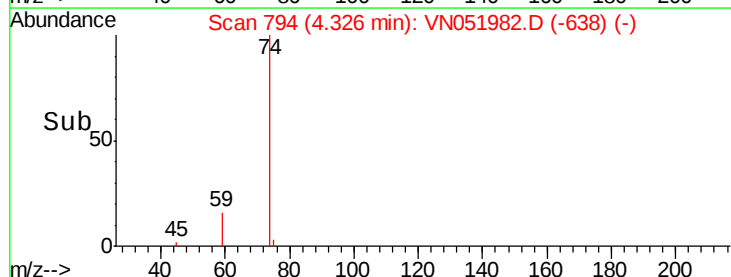
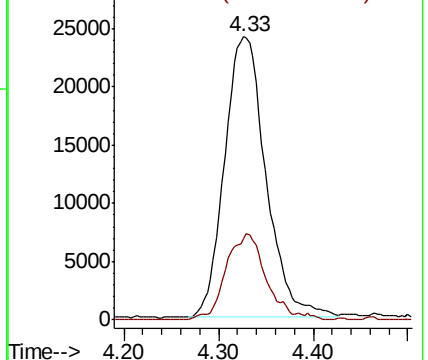
43 100

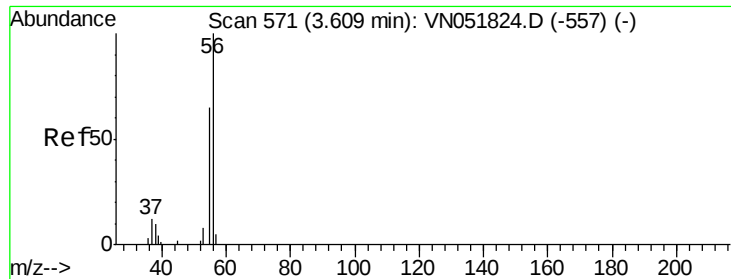
74 28.9 21.8 32.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#13

Acrolein

Concen: 0.397 ug/l

RT: 3.72 min Scan# 605

Delta R.T. 0.11 min

Lab File: VN051982.D

Acq: 24 Oct 2018 12:40

Instrument :

MSVOA_N

ClientSampleId :

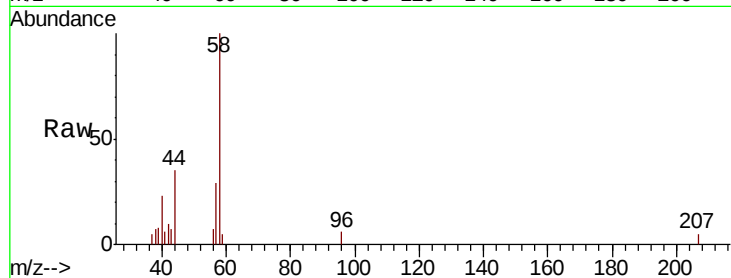
002M-35TH-AVE-(SEP)

Tot Ion: 56 Resp: 124

Ion Ratio Lower Upper

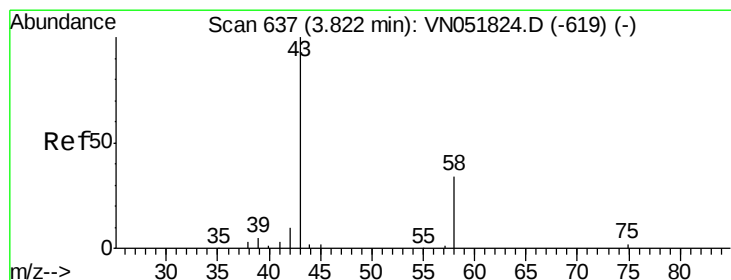
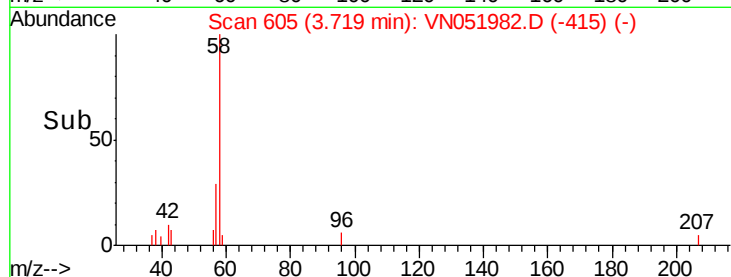
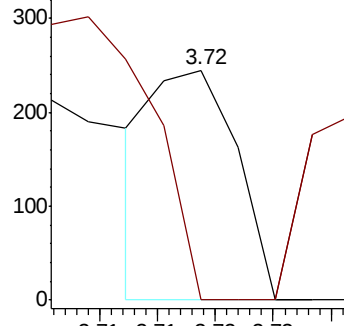
56 100

55 82.3 64.0 96.0



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#15

Acetone

Concen: 187.330 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.01 min

Lab File: VN051982.D

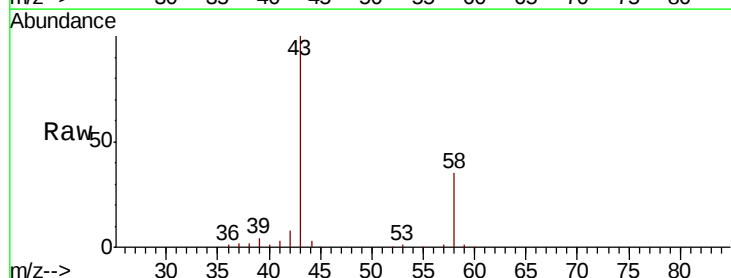
Acq: 24 Oct 2018 12:40

Tgt Ion: 58 Resp: 98213

Ion Ratio Lower Upper

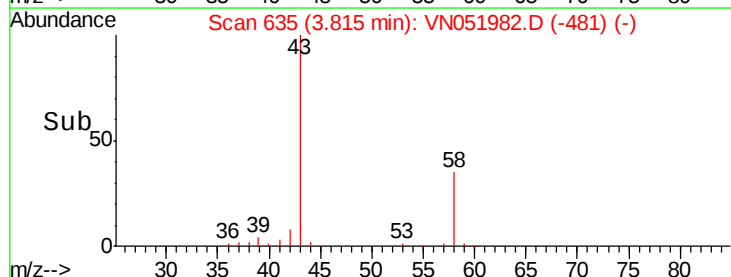
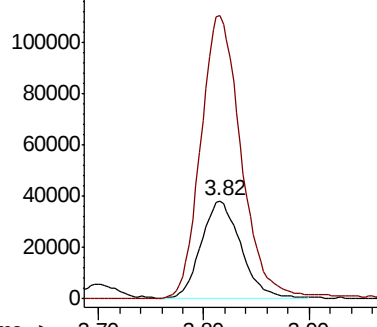
58 100

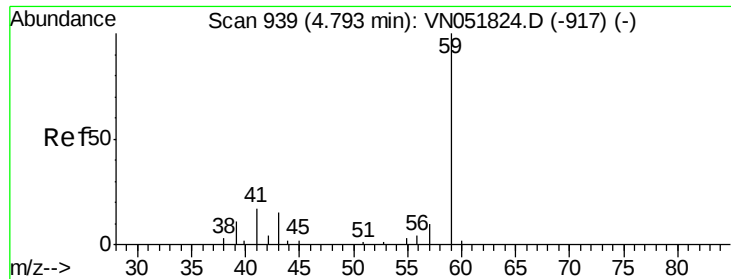
43 289.6 232.2 348.2



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

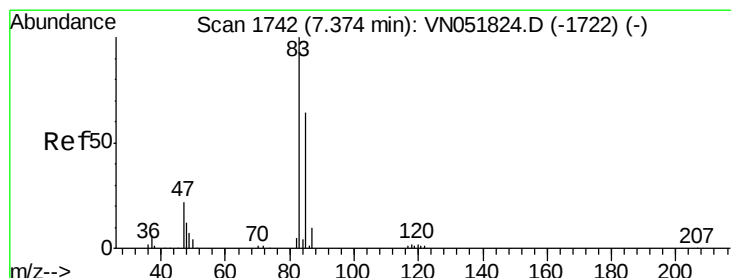
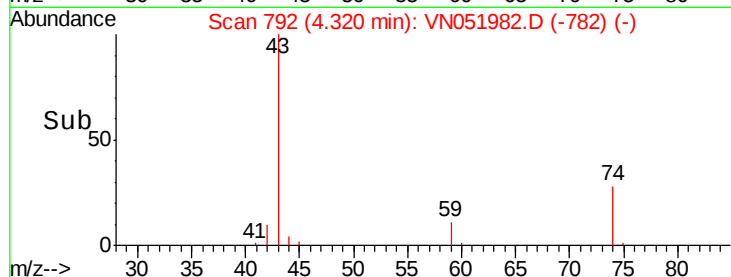
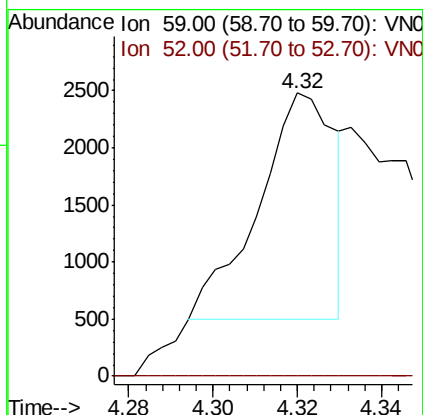
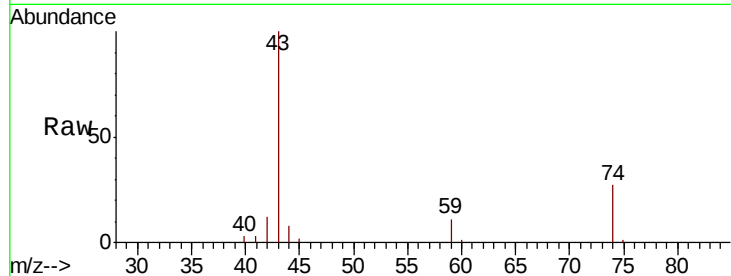




#23
tert-Butyl Alcohol
Concen: 4.465 ug/l
RT: 4.32 min Scan# 792
Delta R.T. -0.47 min
Lab File: VN051982.D
Acq: 24 Oct 2018 12:40

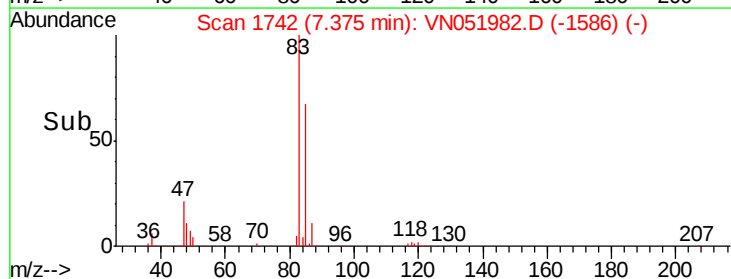
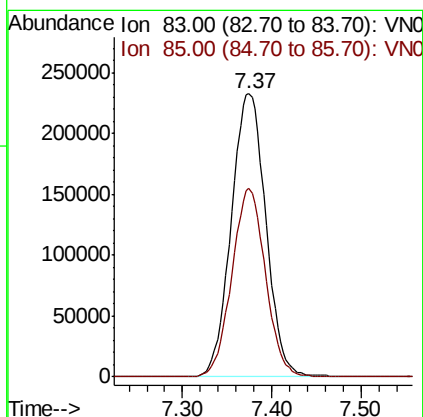
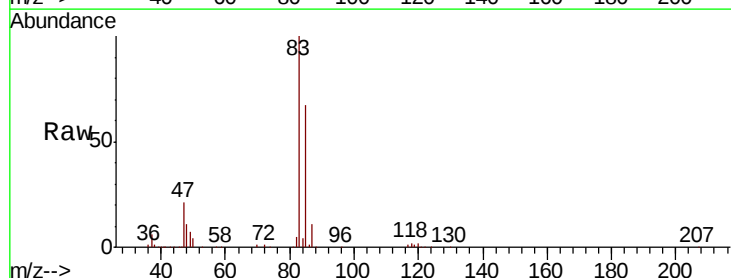
Instrument :
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002M-35TH-AVE-(SEP)

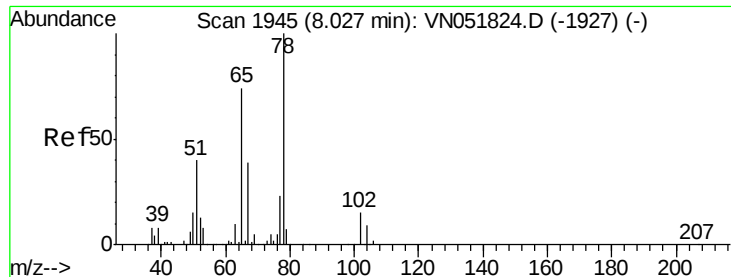
Tot Ion: 59 Resp: 2494
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 37.339 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN051982.D
Acq: 24 Oct 2018 12:40

Tgt Ion: 83 Resp: 625412
Ion Ratio Lower Upper
83 100
85 66.7 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: VN051982.D

Acq: 24 Oct 2018 12:40

Instrument :

MSVOA_N

ClientSampleId :

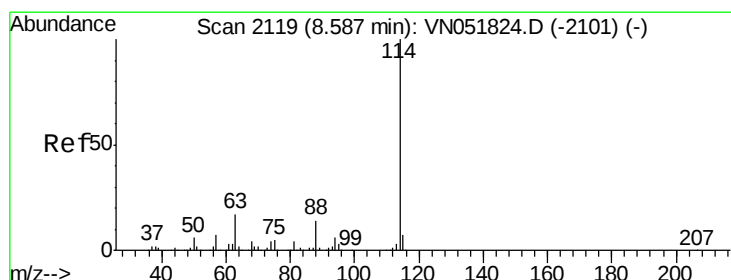
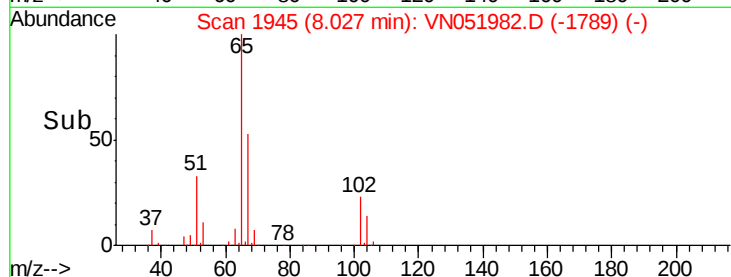
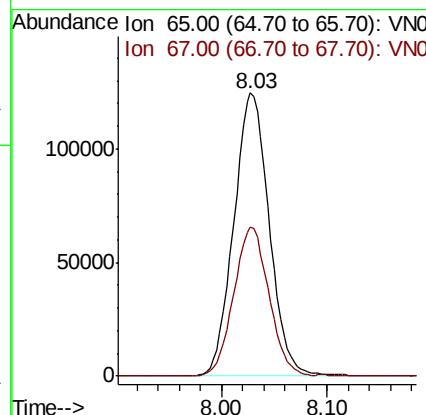
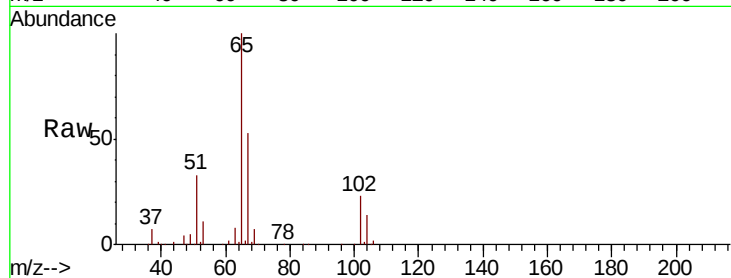
002M-35TH-AVE-(SEP)

Tot Ion: 65 Resp: 290572

Ion Ratio Lower Upper

65 100

67 52.5 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: VN051982.D

Acq: 24 Oct 2018 12:40

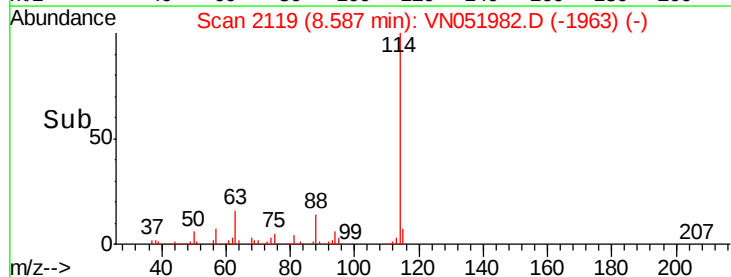
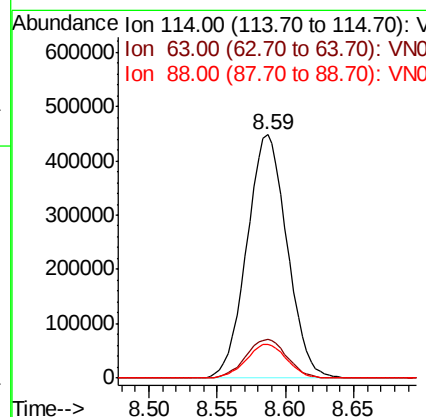
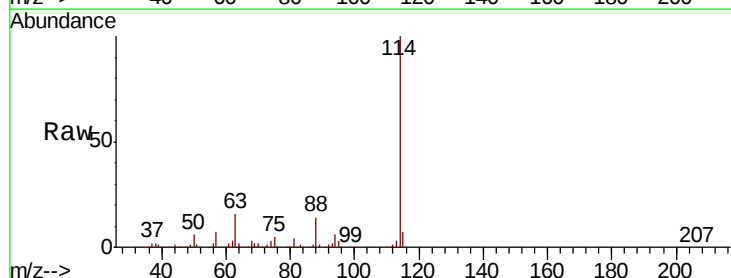
Tgt Ion: 114 Resp: 915811

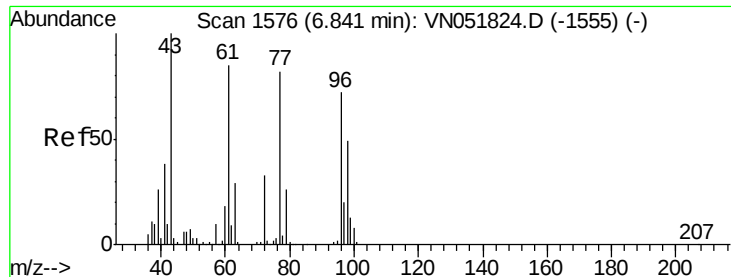
Ion Ratio Lower Upper

114 100

63 16.3 16.2 24.2

88 14.1 12.2 18.4

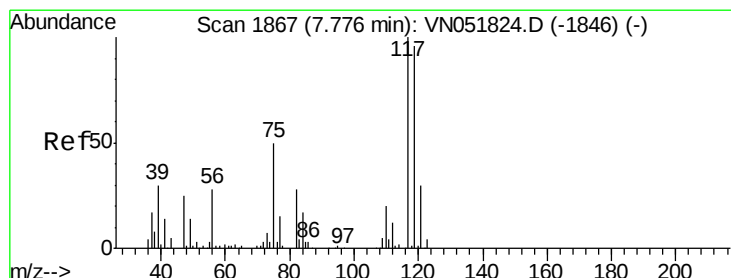
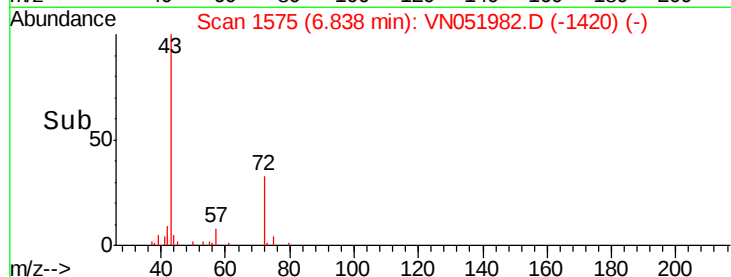
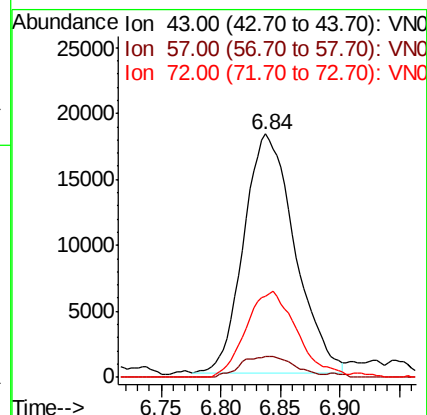
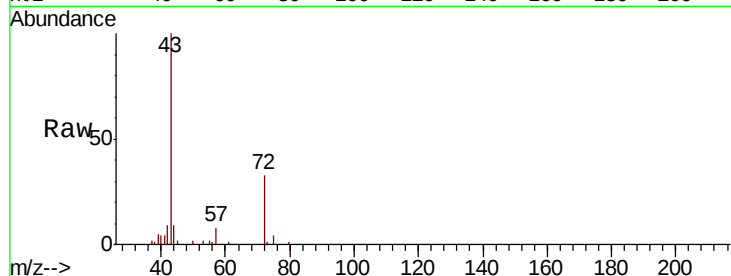




#30
2-Butanone
Concen: 21.778 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. -0.00 min
Lab File: VN051982.D
Acq: 24 Oct 2018 12:40

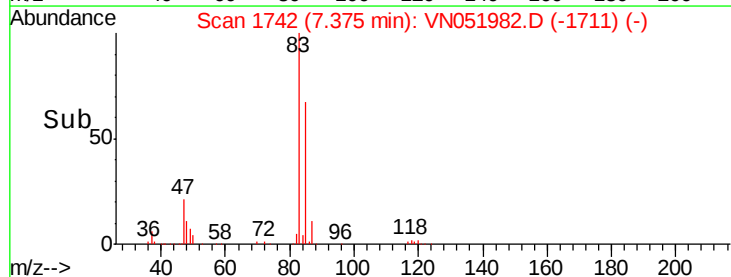
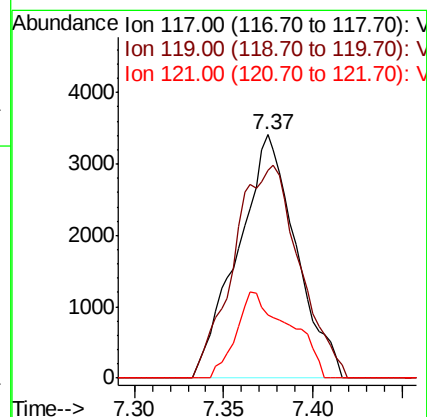
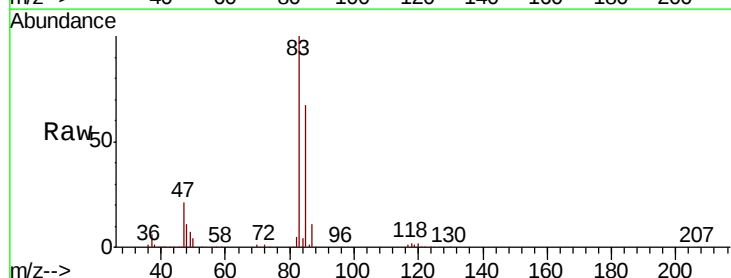
Instrument :
MSVOA_N
ClientSampleId :
002M-35TH-AVE-(SEP)

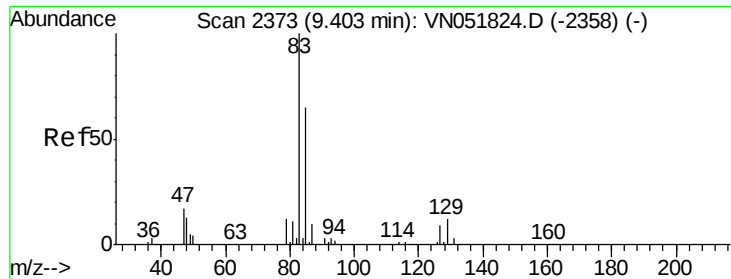
Tot Ion: 43 Resp: 53733
Ion Ratio Lower Upper
43 100
57 9.3 4.5 6.7#
72 36.1 21.5 32.3#



#33
Carbon Tetrachloride
Concen: 0.547 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. -0.40 min
Lab File: VN051982.D
Acq: 24 Oct 2018 12:40

Tgt Ion: 117 Resp: 7747
Ion Ratio Lower Upper
117 100
119 80.1 85.1 127.7#
121 26.2 24.2 36.2





#41

Bromodichloromethane

Concen: 3.401 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN051982.D

Acq: 24 Oct 2018 12:40

Instrument :

MSVOA_N

ClientSampleId :

002M-35TH-AVE-(SEP)

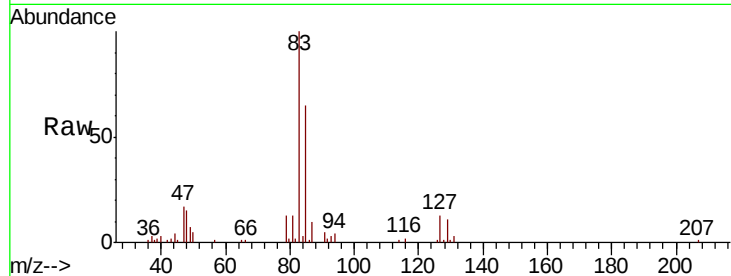
Tot Ion: 83 Resp: 42874

Ion Ratio Lower Upper

83 100

85 64.8 55.7 83.5

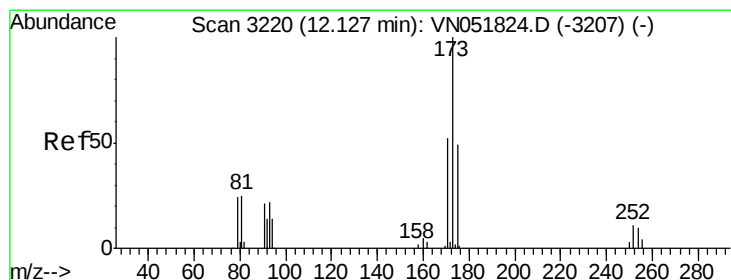
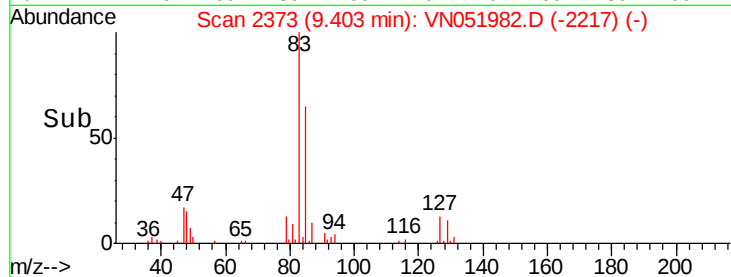
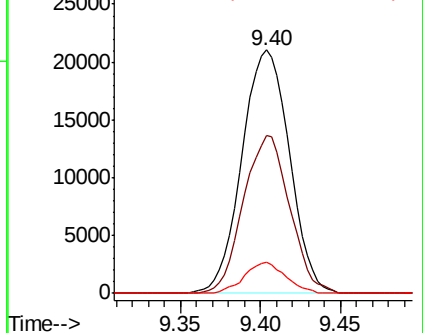
127 13.7 8.2 12.4#



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) (-)



#56

Bromoform

Concen: 0.413 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN051982.D

Acq: 24 Oct 2018 12:40

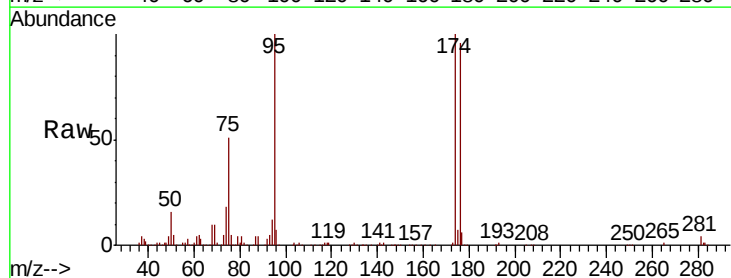
Tgt Ion: 173 Resp: 2843

Ion Ratio Lower Upper

173 100

175 682.7 35.8 53.8#

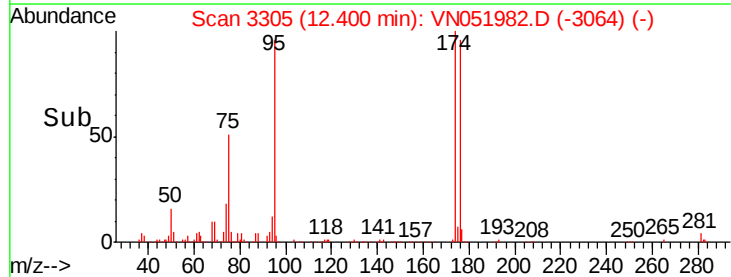
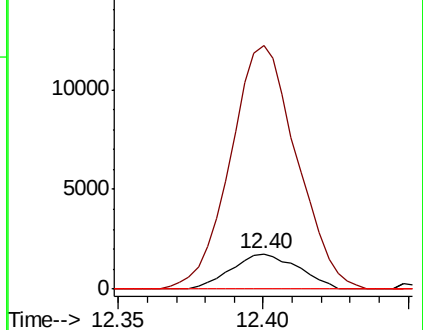
254 0.0 8.6 13.0#

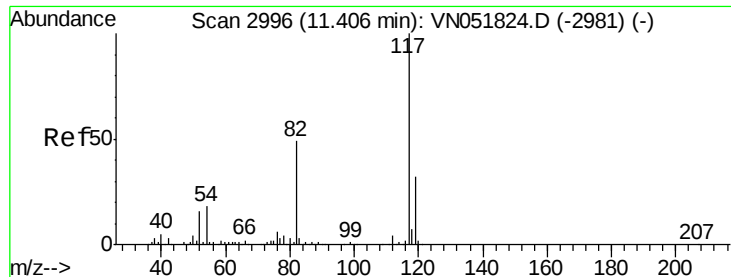


Abundance Ion 173.00 (172.70 to 173.70): VN051824.D (-3207) (-)

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

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

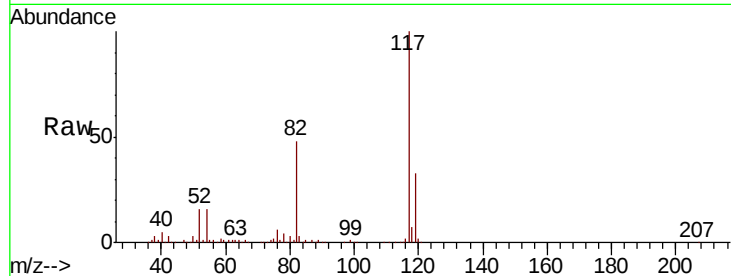




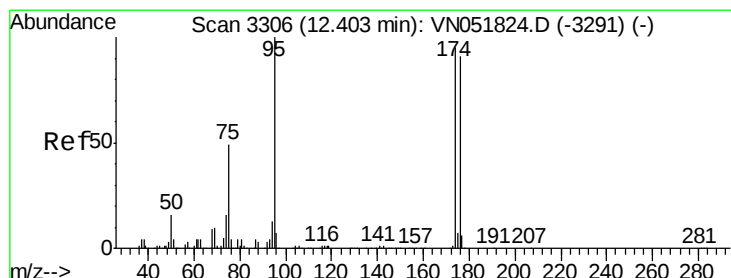
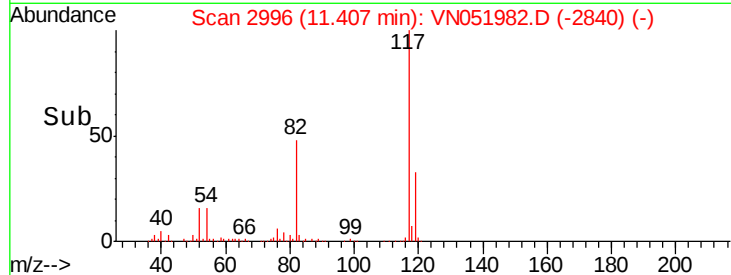
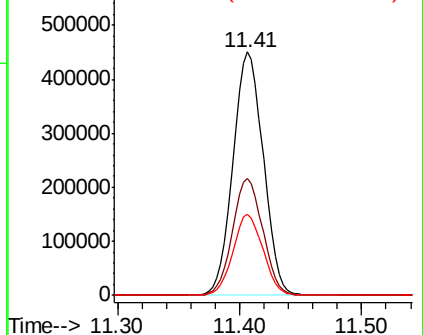
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051982.D
Acq: 24 Oct 2018 12:40

Instrument :
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Tot Ion	Ratio	Lower	Upper
117	100		
82	48.0	44.1	66.1
119	32.9	25.8	38.8

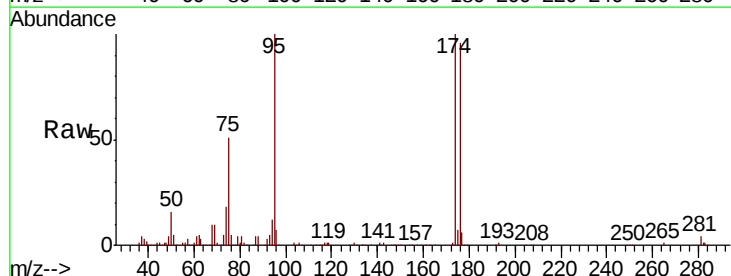


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

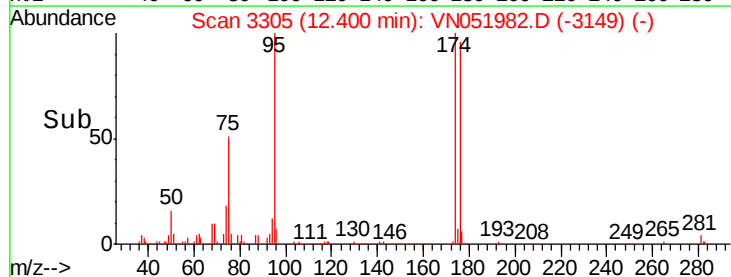
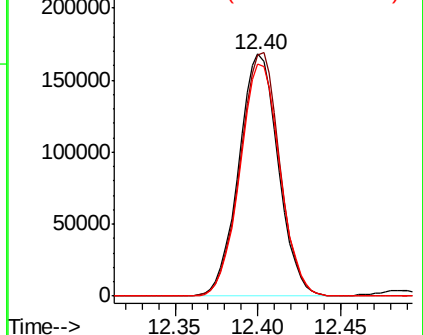


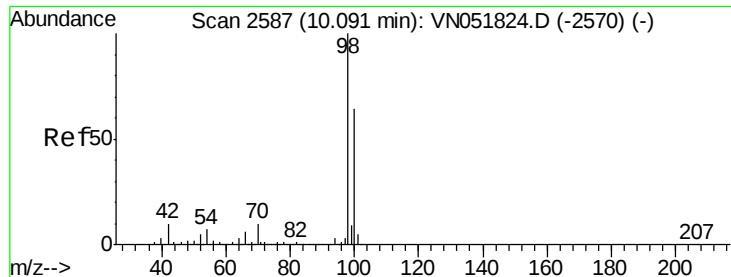
#60
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN051982.D
Acq: 24 Oct 2018 12:40

Tgt Ion	Ratio	Lower	Upper
95	100		
174	100.9	73.5	110.3
176	97.1	70.2	105.2



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





#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN05182.D

Acq: 24 Oct 2018 12:40

Instrument :

MSVOA_N

ClientSampleId :

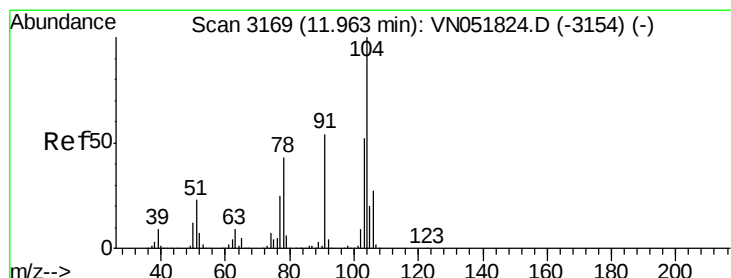
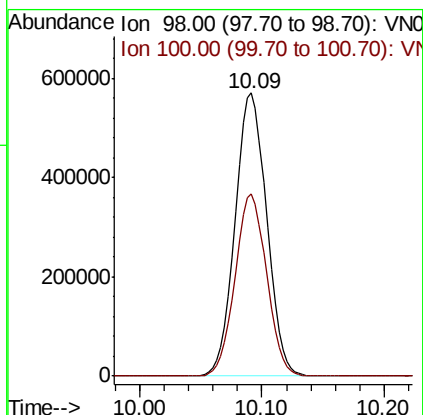
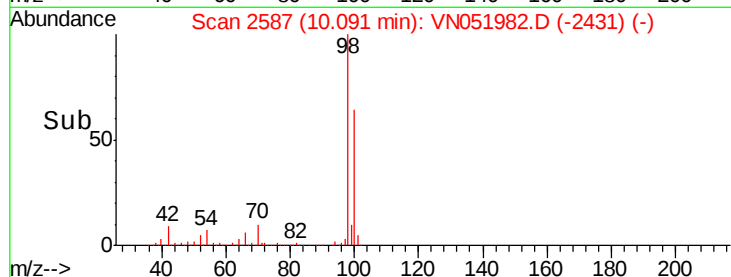
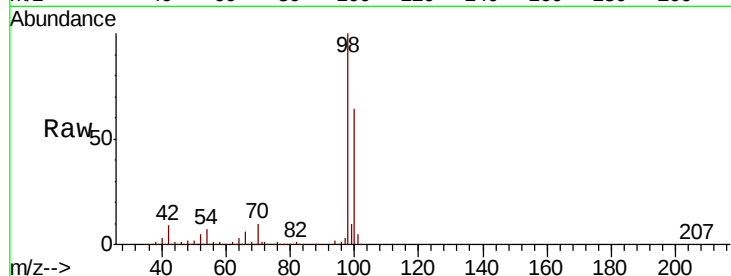
002M-35TH-AVE-(SEP)

Tot Ion: 98 Resp: 1022218

Ion Ratio Lower Upper

98 100

100 64.1 50.8 76.2



#69

Styrene

Concen: 0.893 ug/l

RT: 11.97 min Scan# 3170

Delta R.T. 0.00 min

Lab File: VN05182.D

Acq: 24 Oct 2018 12:40

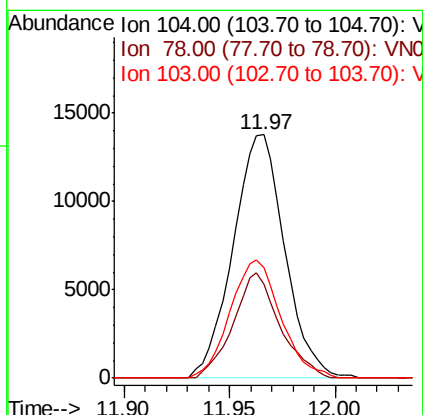
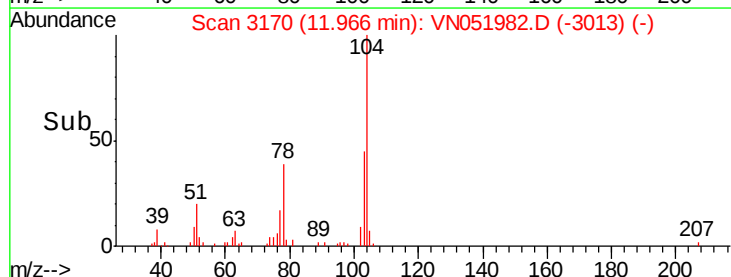
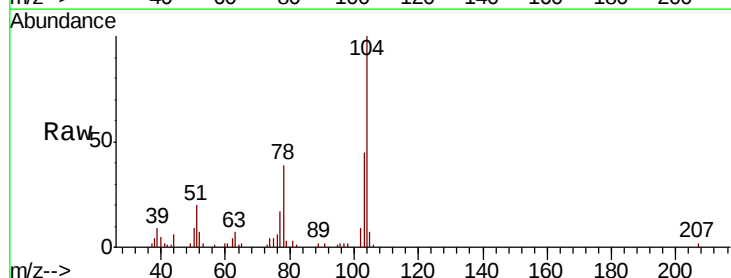
Tgt Ion: 104 Resp: 23413

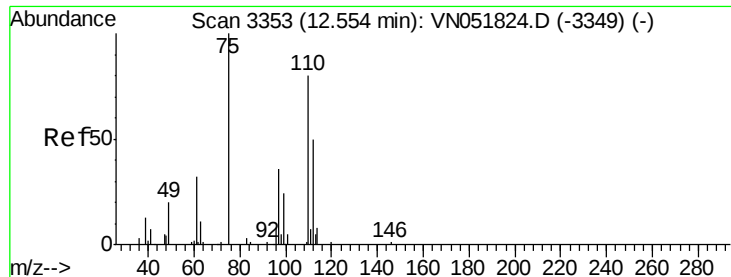
Ion Ratio Lower Upper

104 100

78 39.1 40.6 60.8#

103 47.4 44.0 66.0





#72

1,2,3-Trichloropropane

Concen: 19.548 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN051982.D

Acq: 24 Oct 2018 12:40

Instrument :

MSVOA_N

ClientSampleId :

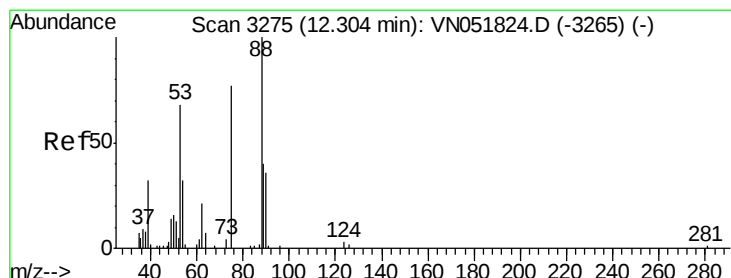
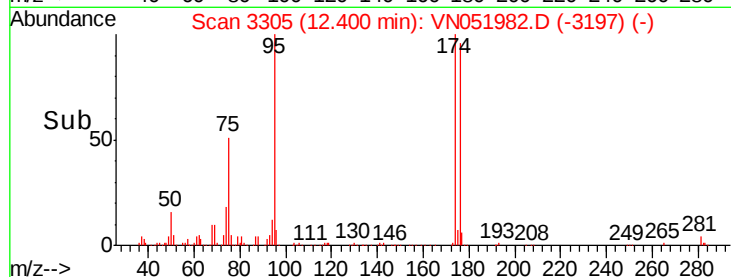
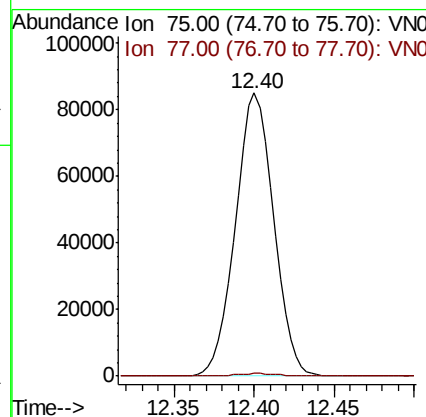
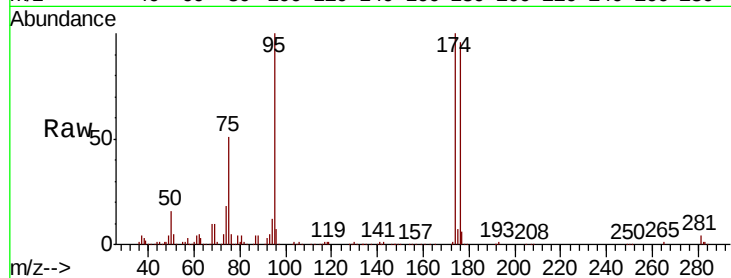
002M-35TH-AVE-(SEP)

Tot Ion: 75 Resp: 138335

Ion Ratio Lower Upper

75 100

77 1.0 0.0 400.0



#77

t-1,4-Dichloro-2-butene

Concen: 0.342 ug/l

RT: 11.96 min Scan# 3168

Delta R.T. -0.34 min

Lab File: VN051982.D

Acq: 24 Oct 2018 12:40

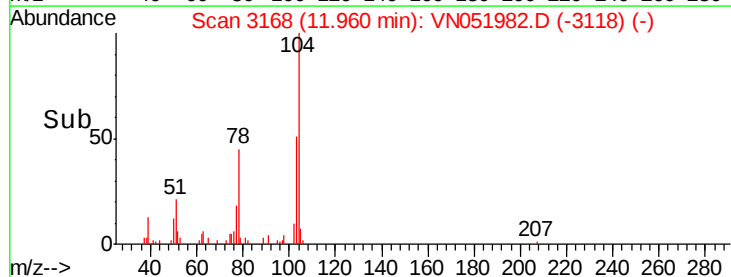
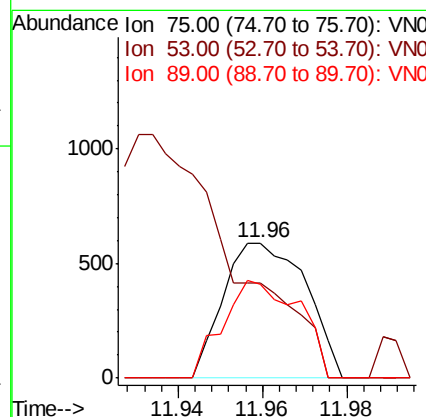
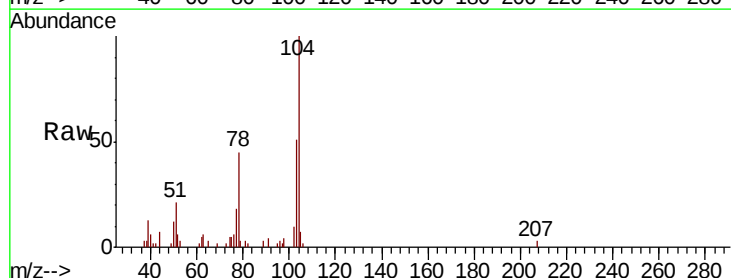
Tgt Ion: 75 Resp: 800

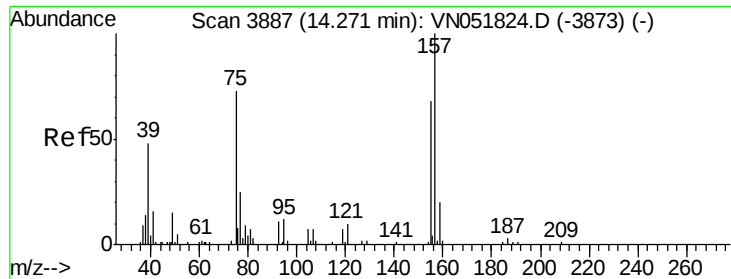
Ion Ratio Lower Upper

75 100

53 70.5 46.3 138.9

89 69.3 24.6 73.8





#88

1,2-Dibromo-3-Chloropropane

Concen: 0.380 ug/l

RT: 13.87 min Scan# 3762

Delta R.T. -0.40 min

Lab File: VN051982.D

Acq: 24 Oct 2018 12:40

Instrument :

MSVOA_N

ClientSampleId :

002M-35TH-AVE-(SEP)

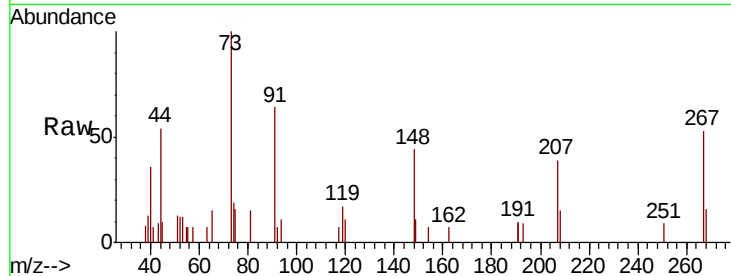
Tot Ion: 75 Resp: 511

Ion Ratio Lower Upper

75 100

155 0.0 57.0 85.6#

157 0.0 87.4 131.0#

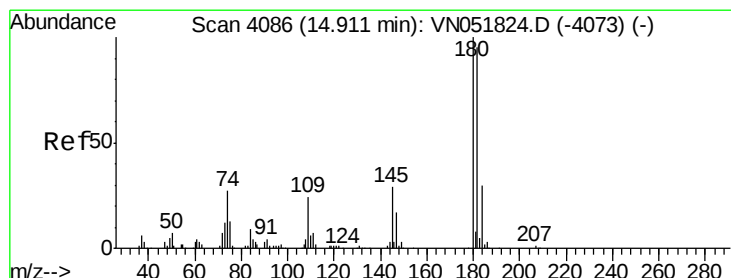
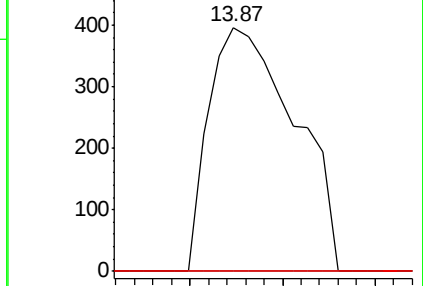
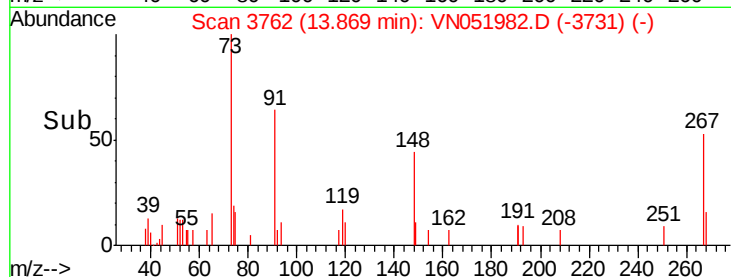


Abundance Ion 75.00 (74.70 to 75.70): VN051982.D (-3731) (-)

Ion 155.00 (154.70 to 155.70): VN051982.D (-3731) (-)

Ion 157.00 (156.70 to 157.70): VN051982.D (-3731) (-)

Time-->



#89

1,2,4-Trichlorobenzene

Concen: 7.768 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN051982.D

Acq: 24 Oct 2018 12:40

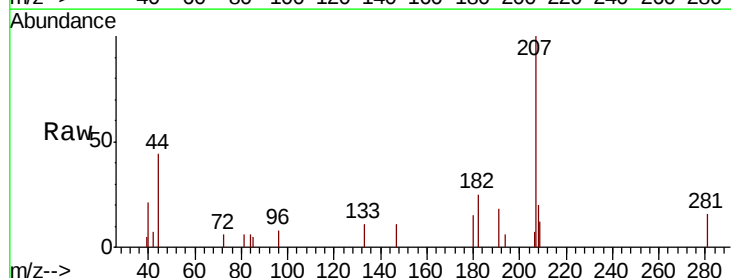
Tgt Ion:180 Resp: 512

Ion Ratio Lower Upper

180 100

182 198.8 77.7 116.5#

145 0.0 23.4 35.2#

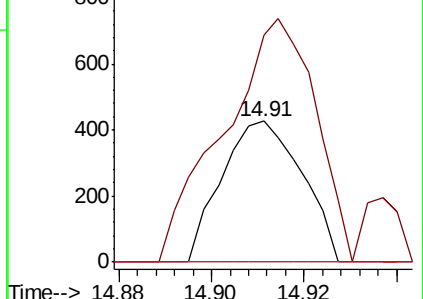
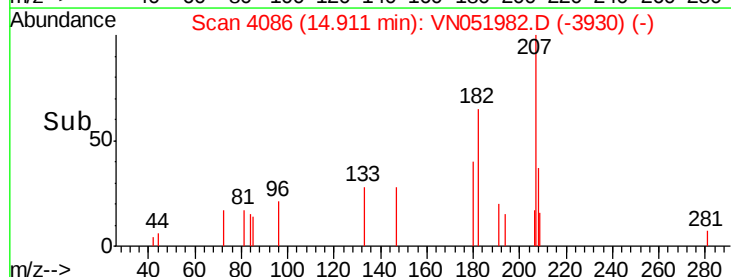


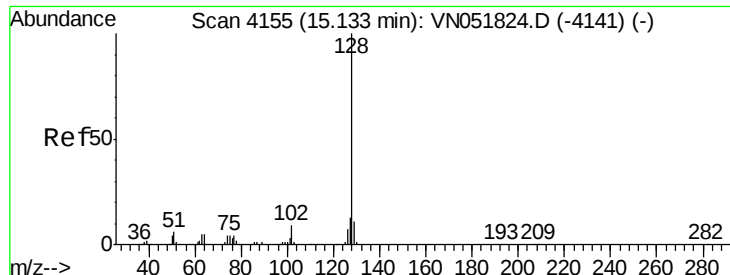
Abundance Ion 180.00 (179.70 to 180.70): VN051982.D (-3930) (-)

Ion 182.00 (181.70 to 182.70): VN051982.D (-3930) (-)

Ion 145.00 (144.70 to 145.70): VN051982.D (-3930) (-)

Time-->





#91

Naphthalene

Concen: 8.615 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN051982.D

Acq: 24 Oct 2018 12:40

Instrument :

MSVOA_N

ClientSampleId :

002M-35TH-AVE-(SEP)

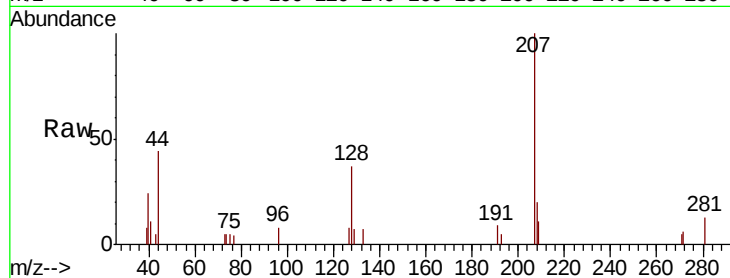
Tot Ion:128 Resp: 2125

Ion Ratio Lower Upper

128 100

127 9.6 10.1 15.1#

129 8.1 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

