

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112718\
 Data File : VN052503.D
 Acq On : 28 Nov 2018 2:58
 Operator : MD\SY
 Sample : J6086-04 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 40 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-4

Quant Time: Nov 28 06:20:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	166986	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	947138	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	793158	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	343853	30.22	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.73%
60) 4-Bromofluorobenzene	12.40	95	312987	25.81	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	86.03%
63) Toluene-d8	10.09	98	1104269	30.03	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.10%

Target Compounds

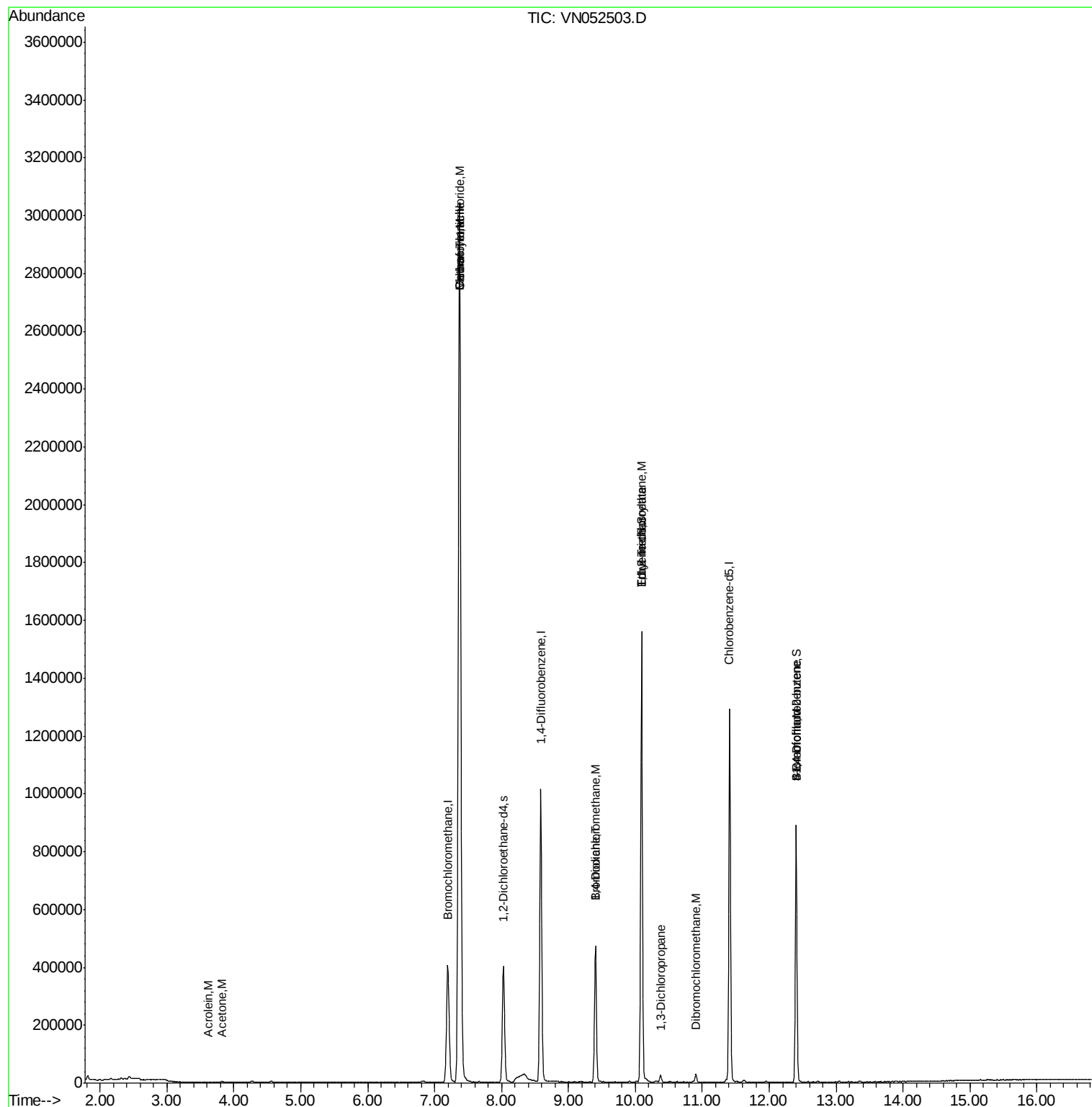
					Ovalue
13) Acrolein	3.62	56	811	0.868 ug/l #	26
15) Acetone	3.82	58	836	0.952 ug/l #	35
25) Chloroform	7.37	83	3310051	175.409 ug/l	100
33) Carbon Tetrachloride	7.37	117	37658	2.860 ug/l	99
35) Methacrylonitrile	7.37	41	8779	1.828 ug/l #	26
41) Bromodichloromethane	9.40	83	334973	24.069 ug/l	98
45) 1,4-Dioxane	9.40	88	252	3.192 ug/l #	27
50) 1,1,2-Trichloroethane	10.10	97	32904	3.685 ug/l #	1
51) Ethyl methacrylate	10.10	69	2955	0.263 ug/l	76
52) 1,3-Dichloropropane	10.37	76	4191	0.264 ug/l #	42
53) Dibromochloromethane	10.90	129	15684	1.595 ug/l	97
56) Bromoform	12.41	173	2149	0.334 ug/l #	1
77) t-1,4-Dichloro-2-butene	12.40	75	151287	56.566 ug/l #	11

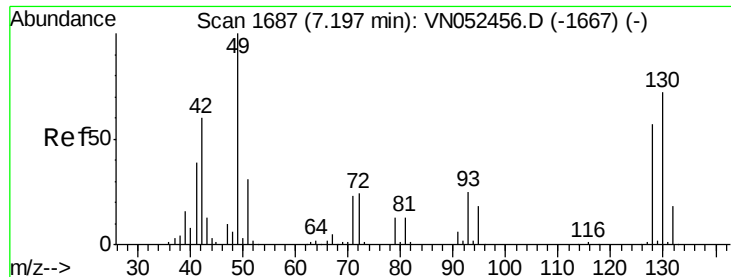
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 28 06:20:37 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Nov 27 00:48:33 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: VN052503.D

Acq: 28 Nov 2018 2:58

Instrument :

MSVOA_N

ClientSampled :

14B-4

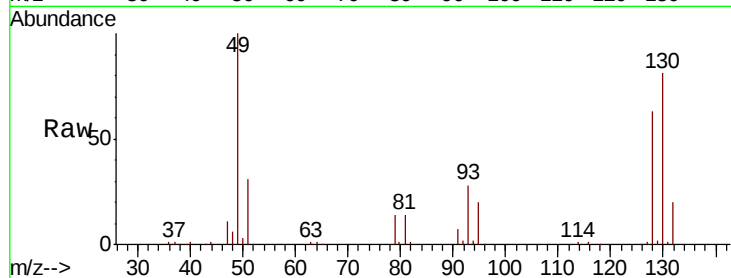
Tot Ion:128 Resp: 166986

Ion Ratio Lower Upper

128 100

49 163.4 0.0 431.8

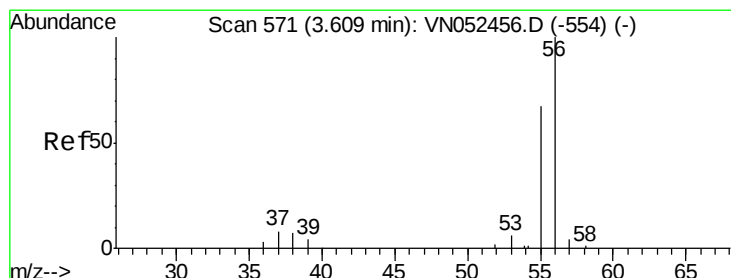
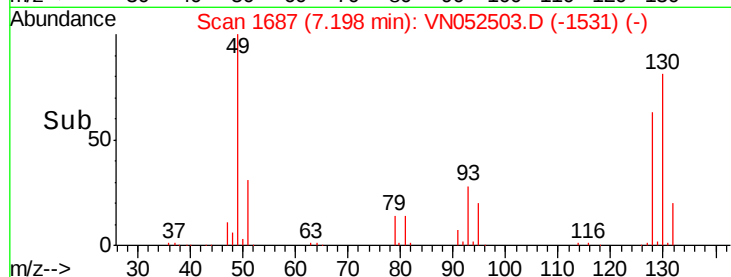
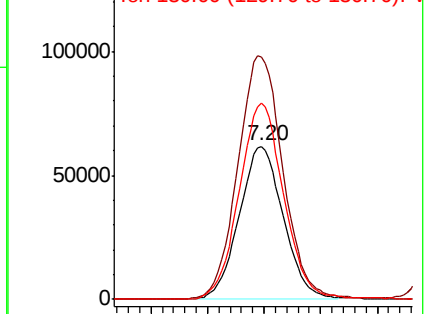
130 129.8 0.0 317.0



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



#13

Acrolein

Concen: 0.868 ug/l

RT: 3.62 min Scan# 575

Delta R.T. 0.01 min

Lab File: VN052503.D

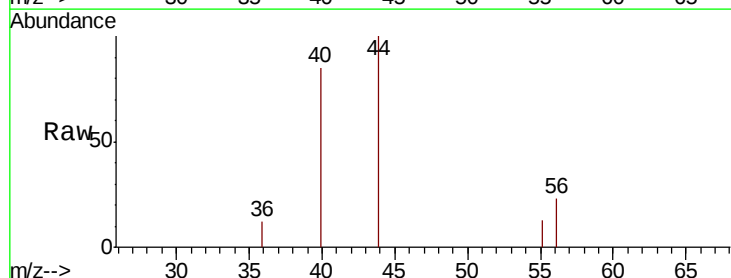
Acq: 28 Nov 2018 2:58

Tgt Ion: 56 Resp: 811

Ion Ratio Lower Upper

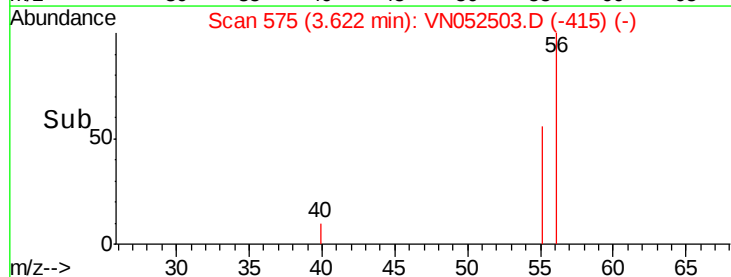
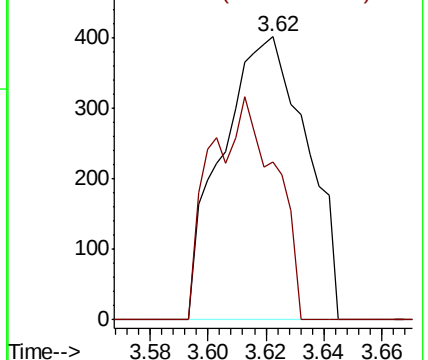
56 100

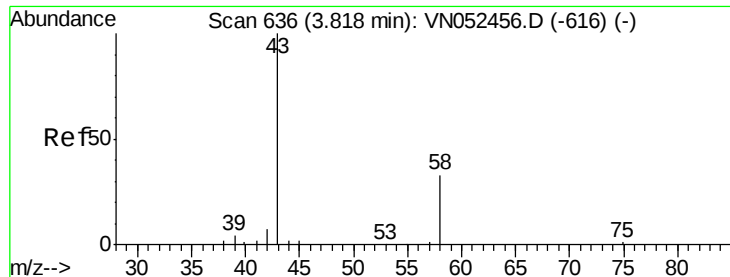
55 9.9 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#15

Acetone

Concen: 0.952 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN052503.D

Acq: 28 Nov 2018 2:58

Instrument :

MSVOA_N

ClientSampleId :

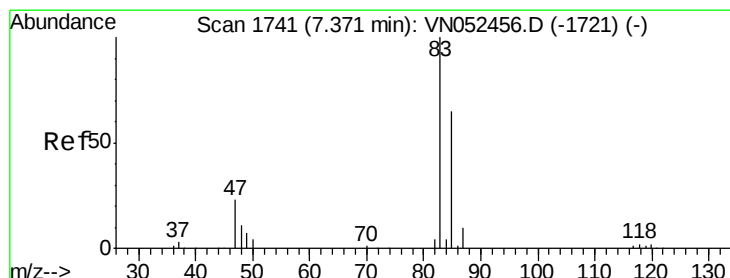
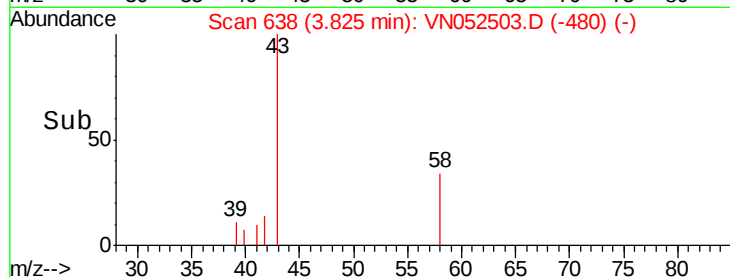
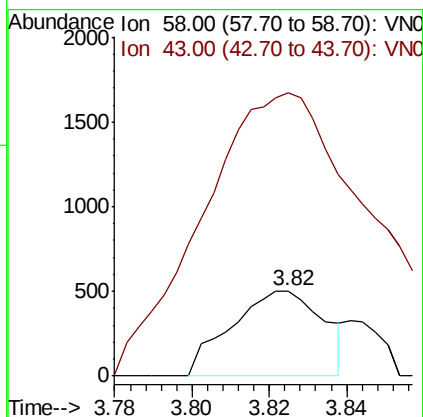
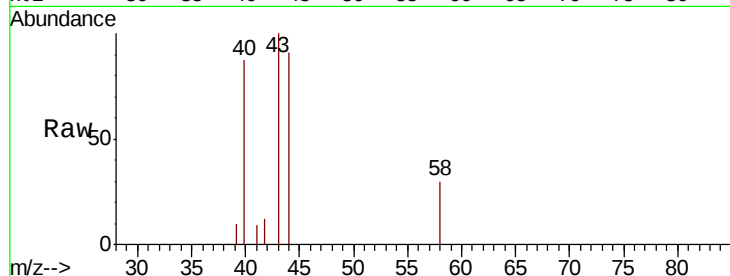
14B-4

Tot Ion: 58 Resp: 836

Ion Ratio Lower Upper

58 100

43 176.3 243.6 365.4#



#25

Chloroform

Concen: 175.409 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VN052503.D

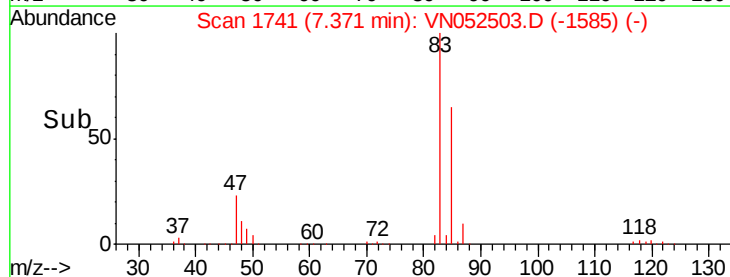
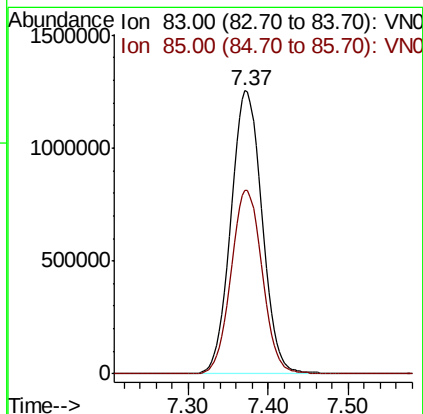
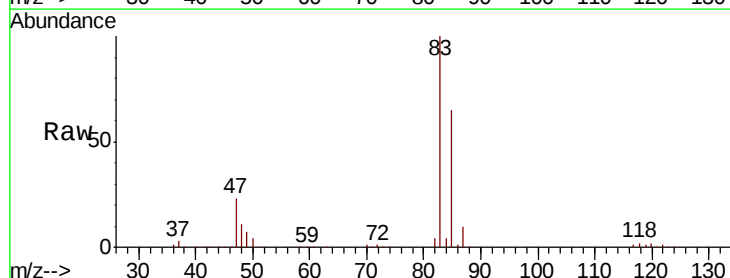
Acq: 28 Nov 2018 2:58

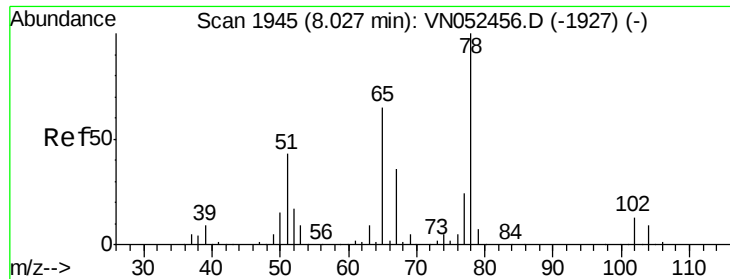
Tgt Ion: 83 Resp: 3310051

Ion Ratio Lower Upper

83 100

85 64.8 51.7 77.5

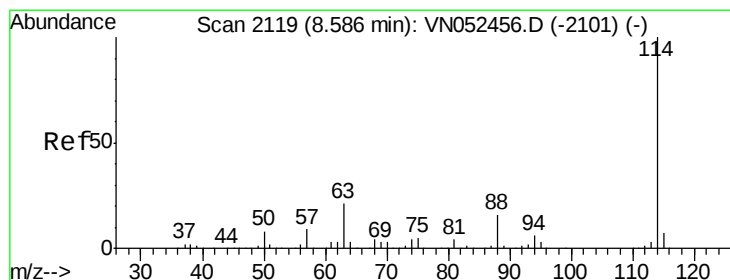
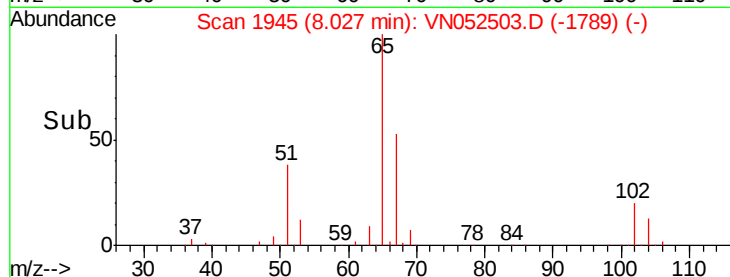
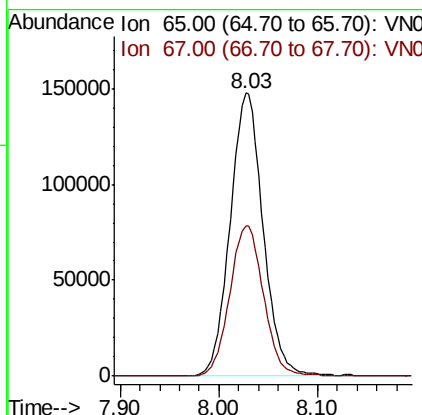
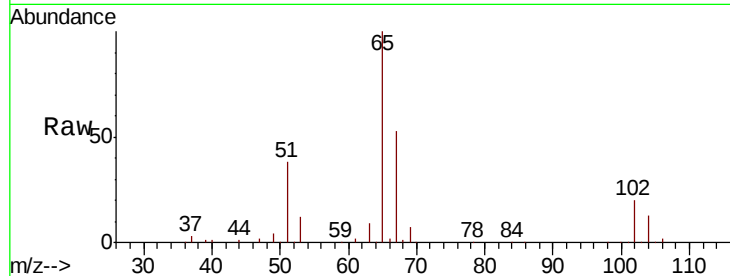




#27
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052503.D
 Acq: 28 Nov 2018 2:58

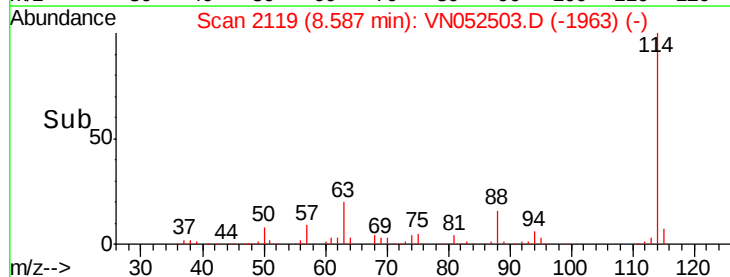
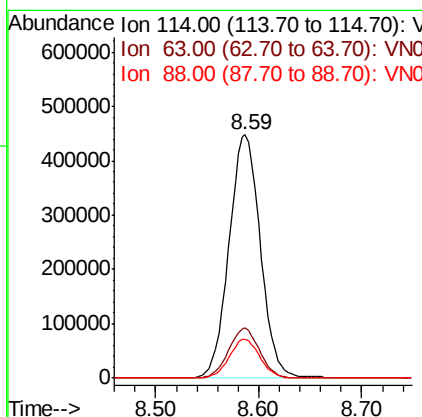
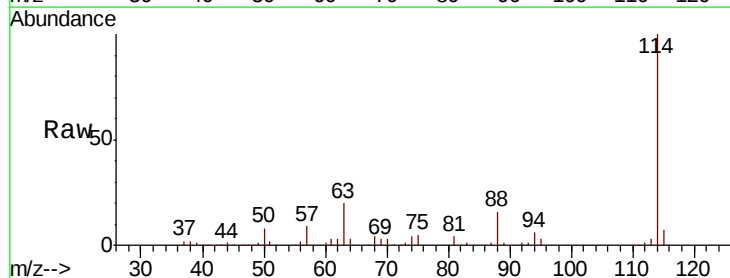
Instrument :
 MSVOA_N
 ClientSampleId :
 14B-4

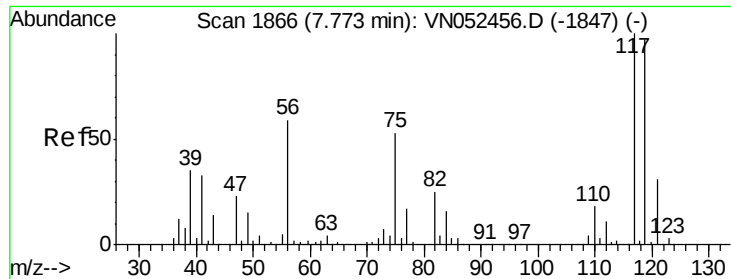
Tot Ion: 65 Resp: 343853
 Ion Ratio Lower Upper
 65 100
 67 54.3 44.6 66.8



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052503.D
 Acq: 28 Nov 2018 2:58

Tgt Ion: 114 Resp: 947138
 Ion Ratio Lower Upper
 114 100
 63 20.2 16.9 25.3
 88 15.7 12.8 19.2

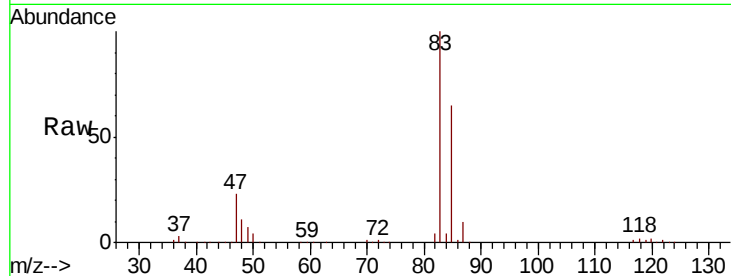




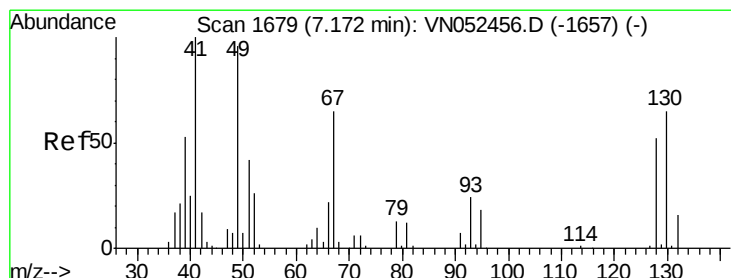
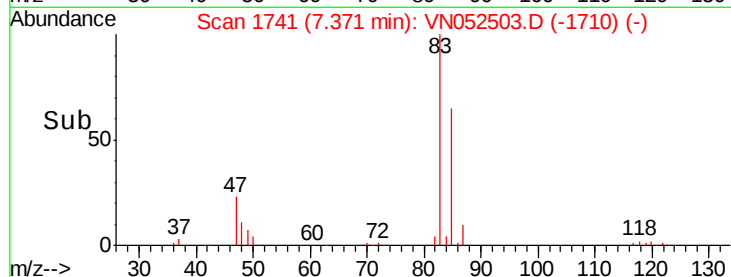
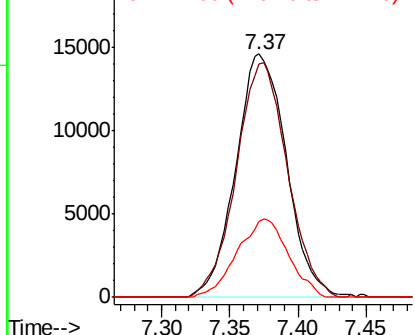
#33
Carbon Tetrachloride
Concen: 2.860 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.40 min
Lab File: VN052503.D
Acq: 28 Nov 2018 2:58

Instrument :
MSVOA_N
ClientSampleId :
14B-4

Tot Ion:117 Resp: 37658
Ion Ratio Lower Upper
117 100
119 95.7 77.3 115.9
121 31.1 24.9 37.3

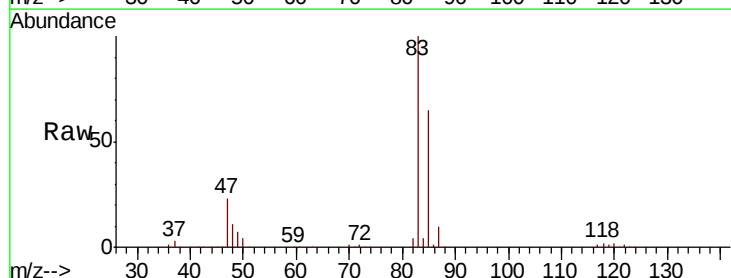


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

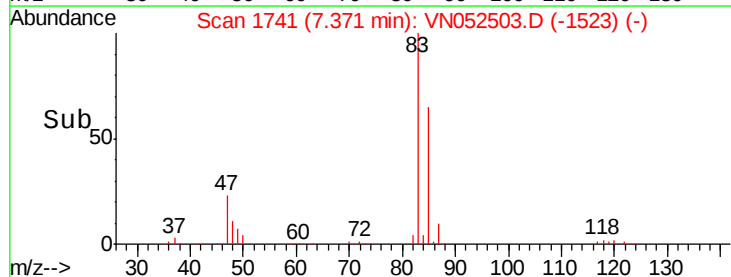
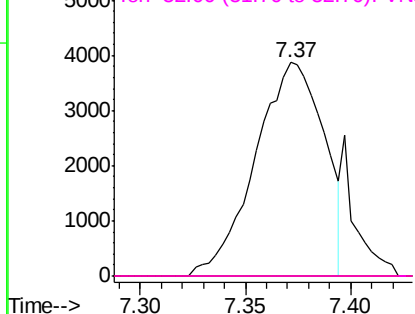


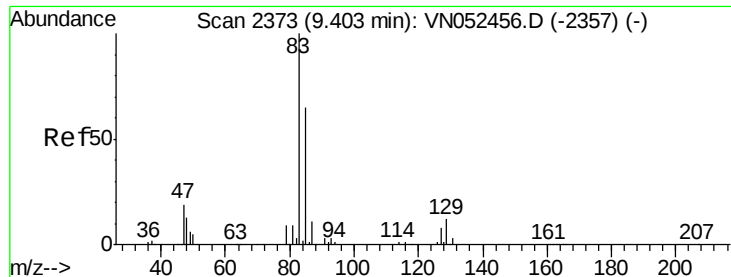
#35
Methacrylonitrile
Concen: 1.828 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.20 min
Lab File: VN052503.D
Acq: 28 Nov 2018 2:58

Tgt Ion: 41 Resp: 8779
Ion Ratio Lower Upper
41 100
39 0.0 26.6 79.7#
67 0.0 32.3 96.9#
52 0.0 13.0 38.9#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO





#41

Bromodichloromethane

Concen: 24.069 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN052503.D

Acq: 28 Nov 2018 2:58

Instrument :

MSVOA_N

ClientSampled :

14B-4

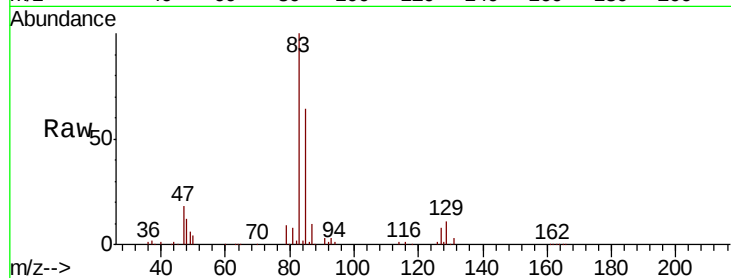
Tot Ion: 83 Resp: 334973

Ion Ratio Lower Upper

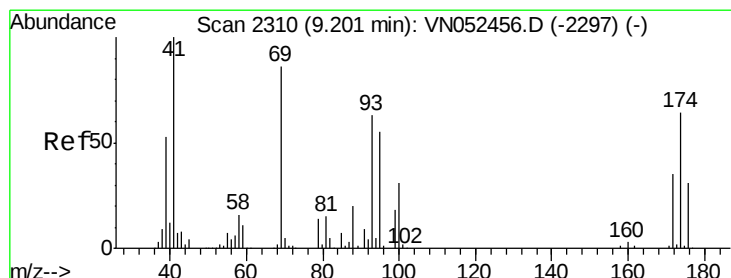
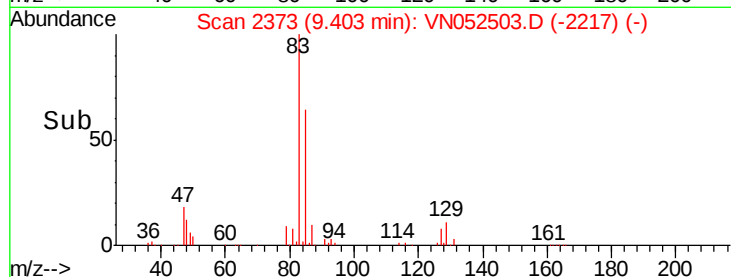
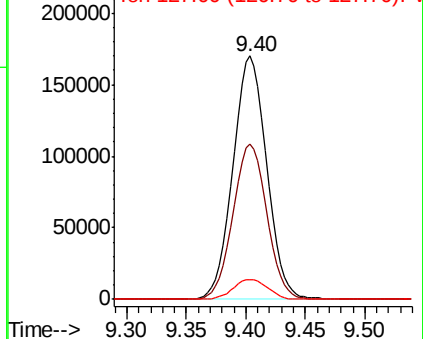
83 100

85 63.7 52.4 78.6

127 8.3 6.6 9.8



Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 85.00 (84.70 to 85.70): VN0
Ion 127.00 (126.70 to 127.70): VN0



#45

1,4-Dioxane

Concen: 3.192 ug/l

RT: 9.40 min Scan# 2371

Delta R.T. 0.20 min

Lab File: VN052503.D

Acq: 28 Nov 2018 2:58

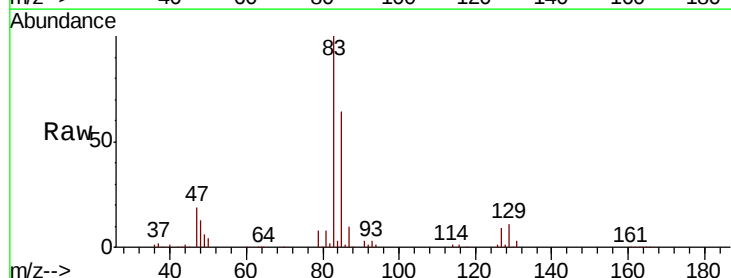
Tgt Ion: 88 Resp: 252

Ion Ratio Lower Upper

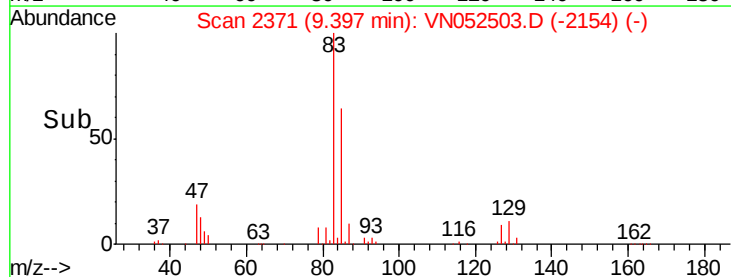
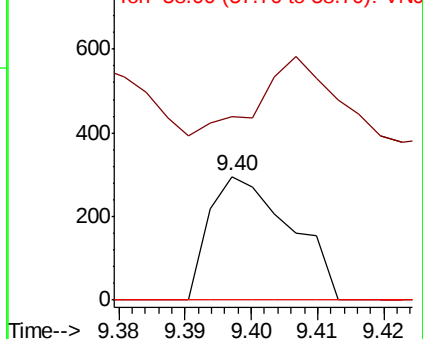
88 100

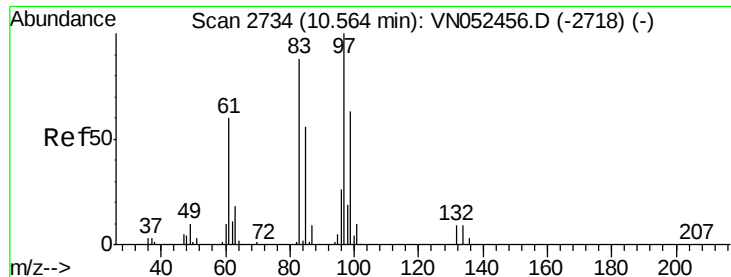
43 13.5 29.5 44.3#

58 0.0 61.5 92.3#



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

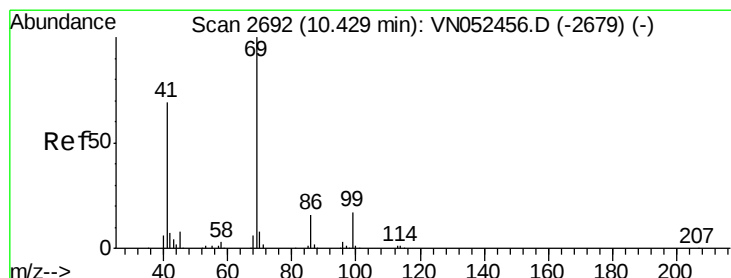
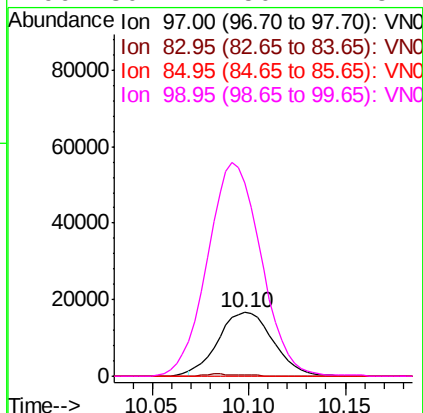
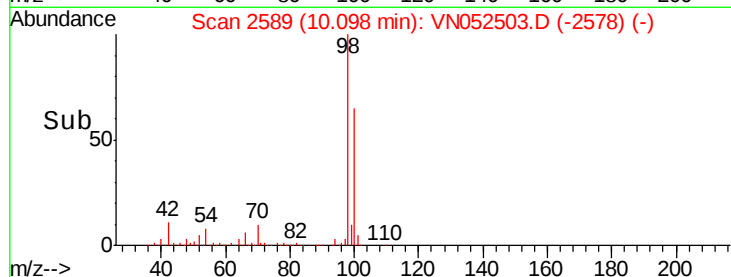
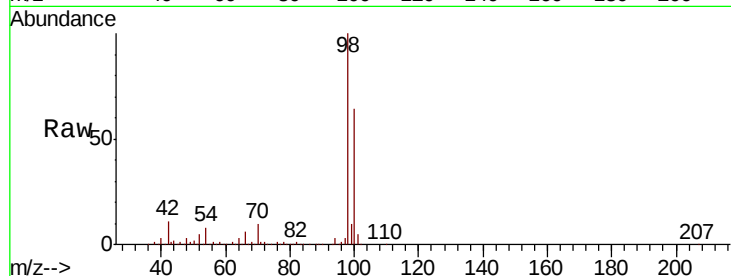




#50
 1,1,2-Trichloroethane
 Concen: 3.685 ug/l
 RT: 10.10 min Scan# 2589
 Delta R.T. -0.47 min
 Lab File: VN052503.D
 Acq: 28 Nov 2018 2:58

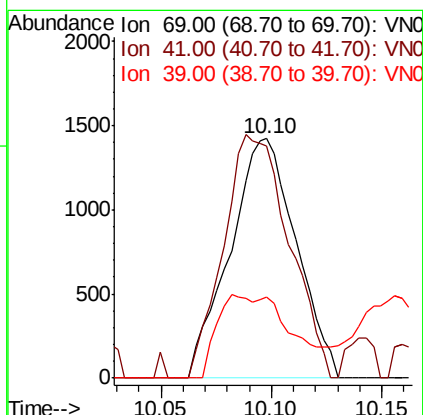
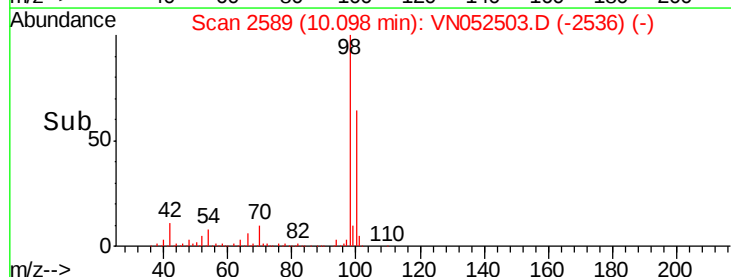
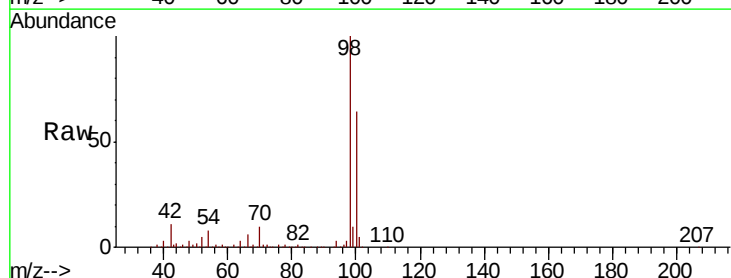
Instrument :
 MSVOA_N
 ClientSampleId :
 14B-4

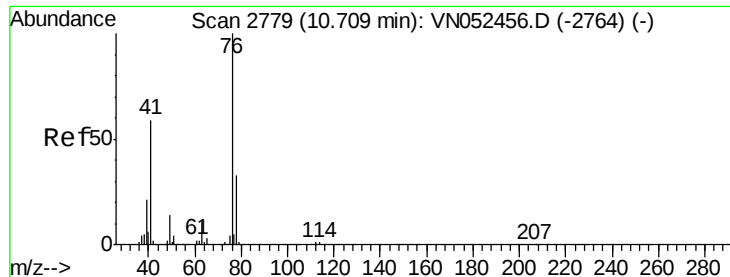
Tot Ion	97	Resp	32904
Ion Ratio	Lower	Upper	
97	100		
83	2.6	70.4	105.6#
85	0.0	45.0	67.6#
99	302.4	50.2	75.2#



#51
 Ethyl methacrylate
 Concen: 0.263 ug/l
 RT: 10.10 min Scan# 2589
 Delta R.T. -0.33 min
 Lab File: VN052503.D
 Acq: 28 Nov 2018 2:58

Tgt Ion	69	Resp	2955
Ion Ratio	Lower	Upper	
69	100		
41	96.8	34.4	103.3
39	34.0	16.4	49.2





#52

1,3-Dichloropropane

Concen: 0.264 ug/l

RT: 10.37 min Scan# 2675

Delta R.T. -0.33 min

Lab File: VN052503.D

Acq: 28 Nov 2018 2:58

Instrument :

MSVOA_N

ClientSampled :

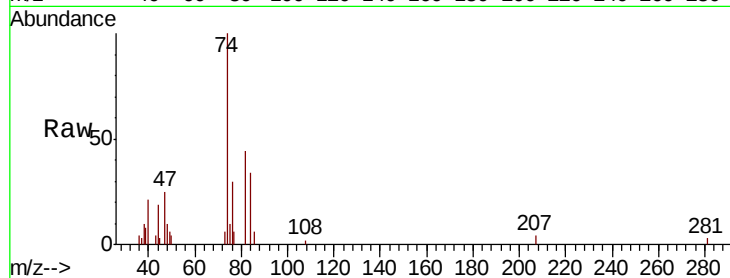
14B-4

Tot Ion: 76 Resp: 4191

Ion Ratio Lower Upper

76 100

78 0.0 0.0 64.8



Abundance Ion 76.00 (75.70 to 76.70): VN052456.D (-2764) (-)

Ion 78.00 (77.70 to 78.70): VN052456.D (-2764) (-)

10.37

2500

2000

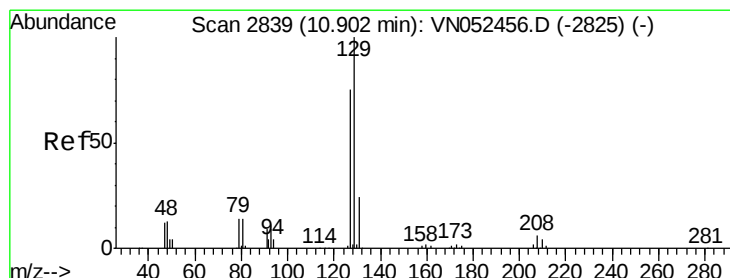
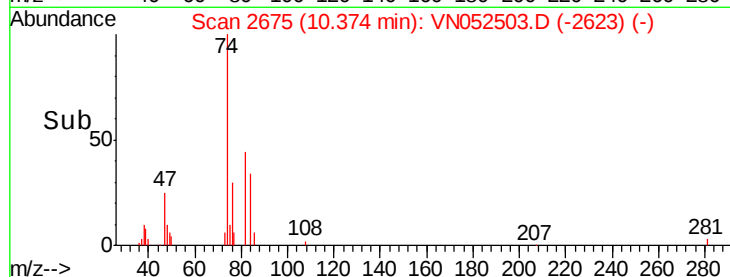
1500

1000

500

0

Time-->



#53

Dibromochloromethane

Concen: 1.595 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN052503.D

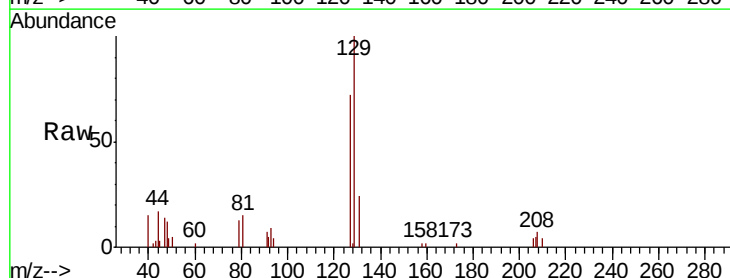
Acq: 28 Nov 2018 2:58

Tgt Ion: 129 Resp: 15684

Ion Ratio Lower Upper

129 100

127 72.6 37.6 112.8



Abundance Ion 129.00 (128.70 to 129.70): VN052456.D (-2825) (-)

Ion 127.00 (126.70 to 127.70): VN052456.D (-2825) (-)

10.90

10000

8000

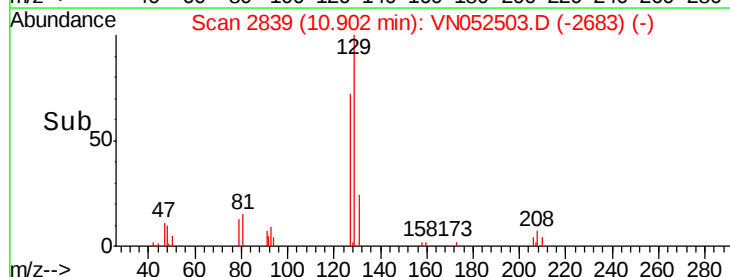
6000

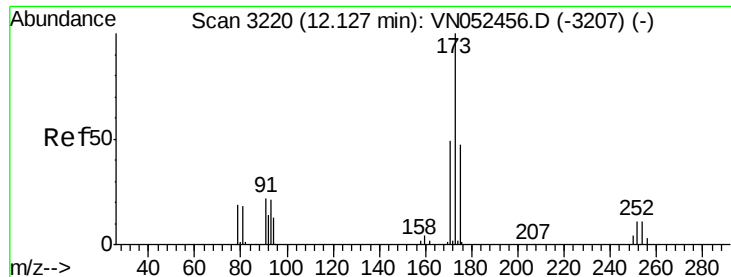
4000

2000

0

Time-->





#56

Bromoform

Concen: 0.334 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN052503.D

Acq: 28 Nov 2018 2:58

Instrument :

MSVOA_N

ClientSampleId :

14B-4

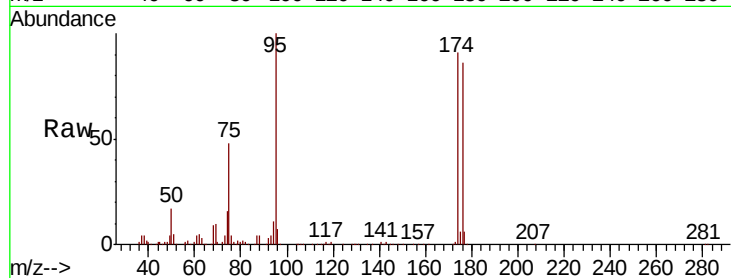
Tot Ion:173 Resp: 2149

Ion Ratio Lower Upper

173 100

175 903.6 38.7 58.1#

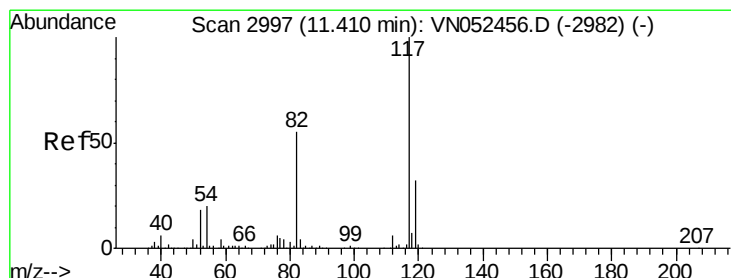
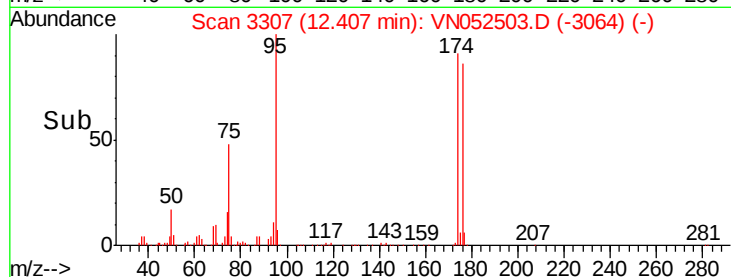
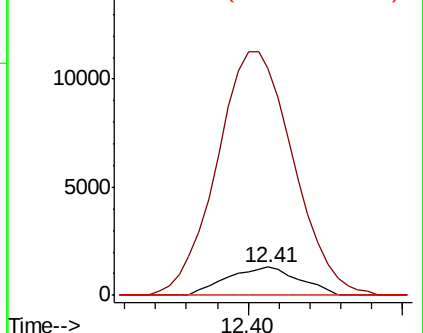
254 0.0 8.4 12.6#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN052503.D

Acq: 28 Nov 2018 2:58

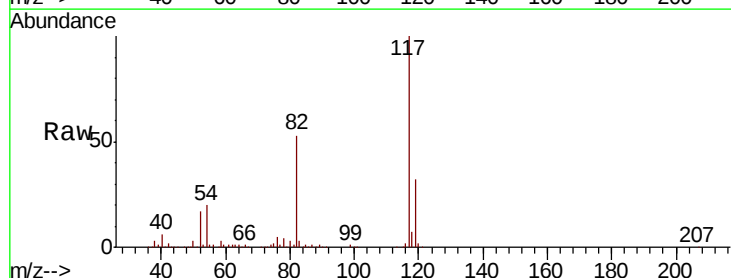
Tgt Ion:117 Resp: 793158

Ion Ratio Lower Upper

117 100

82 53.7 44.2 66.2

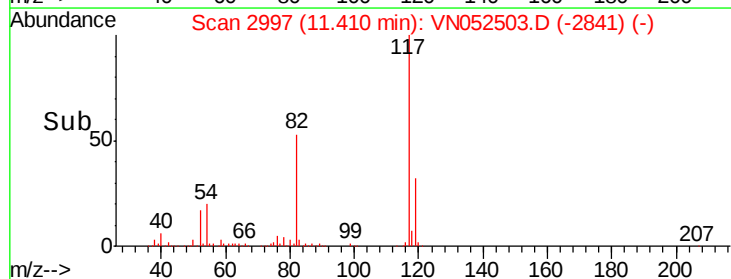
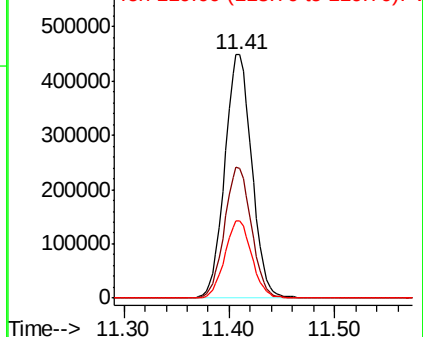
119 31.8 25.4 38.2

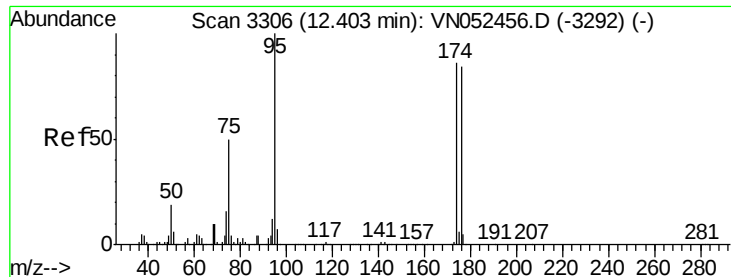


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V

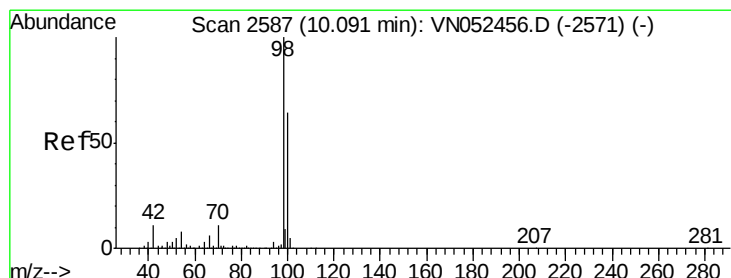
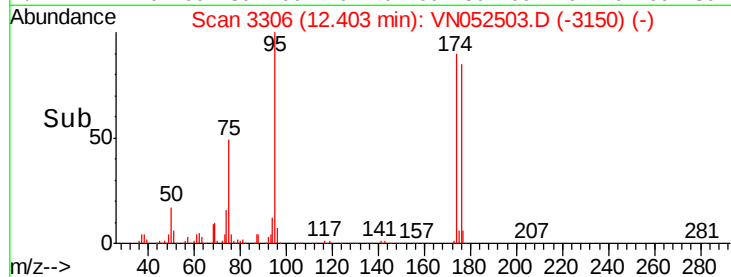
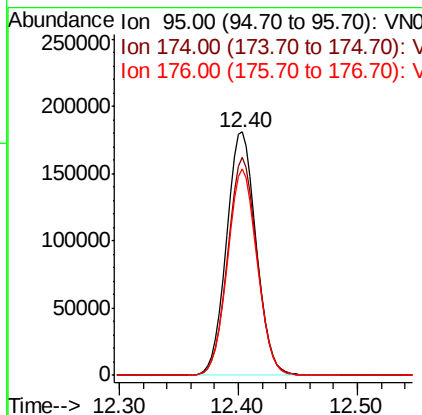
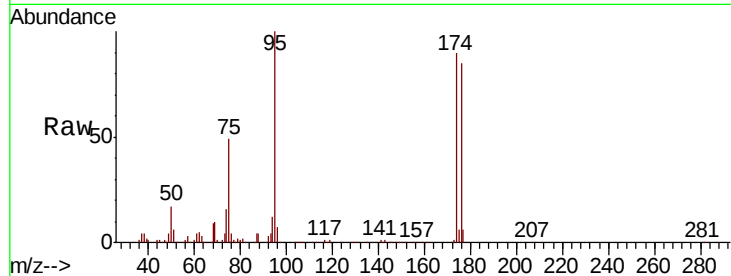




#60
 4-Bromofluorobenzene
 Concen: Below ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN052503.D
 Acq: 28 Nov 2018 2:58

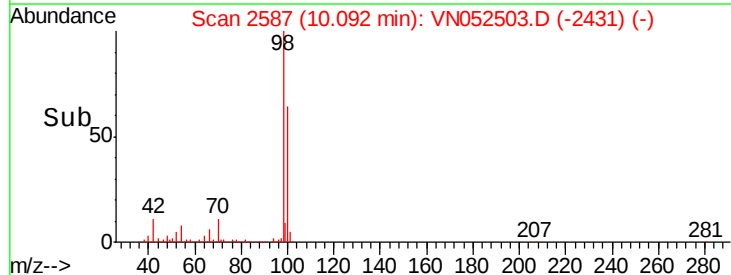
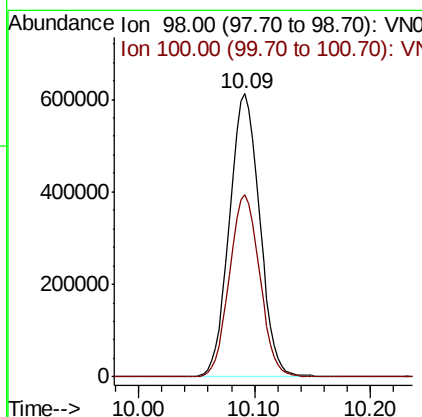
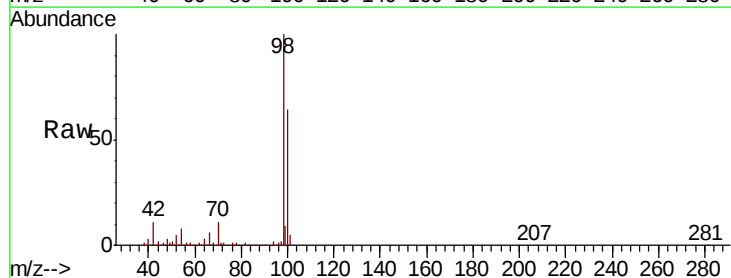
Instrument :
 MSVOA_N
 ClientSampleId :
 14B-4

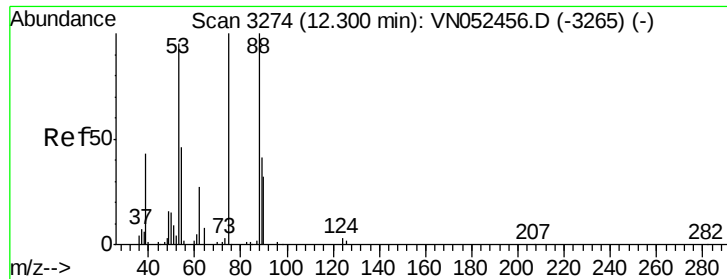
Tot Ion	95	Resp	312987
Ion Ratio	Lower	Upper	
95	100		
174	88.7	67.9	101.9
176	84.5	66.4	99.6



#63
 Toluene-d8
 Concen: Below ug/l
 RT: 10.09 min Scan# 2587
 Delta R.T. 0.00 min
 Lab File: VN052503.D
 Acq: 28 Nov 2018 2:58

Tgt Ion	98	Resp	1104269
Ion Ratio	Lower	Upper	
98	100		
100	64.5	51.1	76.7





#77
 t-1,4-Dichloro-2-butene
 Concen: 56.566 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN052503.D
 Acq: 28 Nov 2018 2:58

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-4

Tot Ion: 75 Resp: 151287
 Ion Ratio Lower Upper
 75 100
 53 0.0 48.5 145.6#
 89 0.0 21.7 65.1#

