

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052919\
 Data File : VN055884.D
 Acq On : 29 May 2019 17:53
 Operator : JC/SP
 Sample : K3082-04 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-4

Quant Time: May 30 03:41:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:54:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	50099	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	269993	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	216228	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	102503	31.30	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.33%
60) 4-Bromofluorobenzene	12.40	95	79805	23.73	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	79.10%
63) Toluene-d8	10.09	98	314727	31.85	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	106.17%

Target Compounds

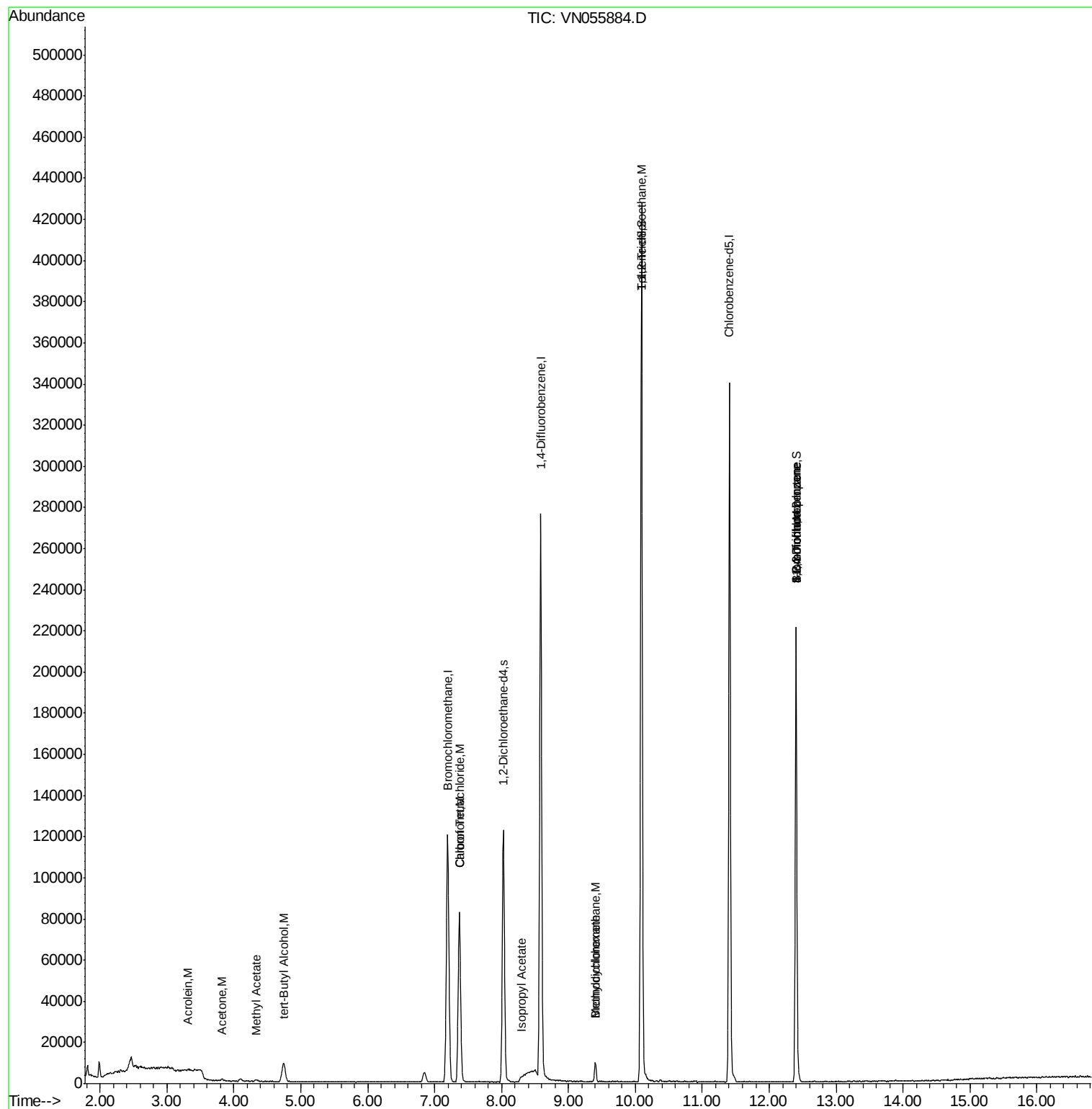
					Ovalue
12) Methyl Acetate	4.33	43	2034	0.629 ug/l #	51
13) Acrolein	3.31	56	90	0.200 ug/l #	1
15) Acetone	3.83	58	101	0.221 ug/l #	1
23) tert-Butyl Alcohol	4.74	59	5771	8.912 ug/l #	100
25) Chloroform	7.37	83	89223	17.301 ug/l	96
33) Carbon Tetrachloride	7.36	117	970	0.242 ug/l	95
38) Methylcyclohexane	9.40	83	6924	1.446 ug/l #	19
41) Bromodichloromethane	9.40	83	6924	1.668 ug/l	98
44) Isopropyl Acetate	8.29	43	1789	0.273 ug/l #	47
50) 1,1,2-Trichloroethane	10.10	97	9848	3.340 ug/l #	1
56) Bromoform	12.40	173	622	0.218 ug/l #	1
72) 1,2,3-Trichloropropane	12.40	75	37152	11.225 ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	37152	28.259 ug/l #	17

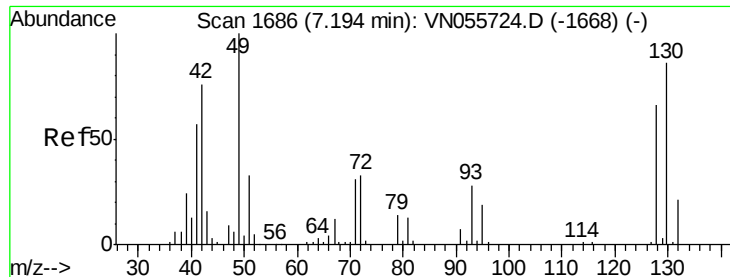
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
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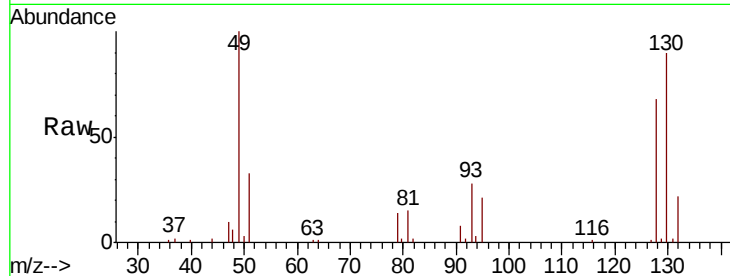




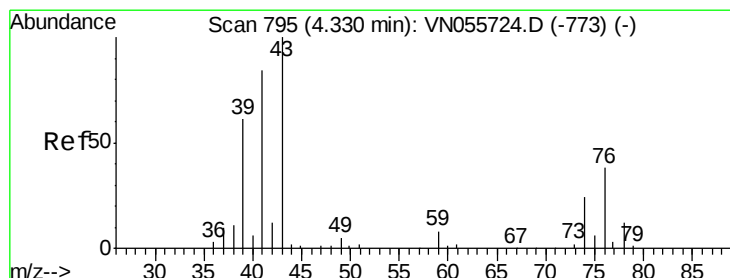
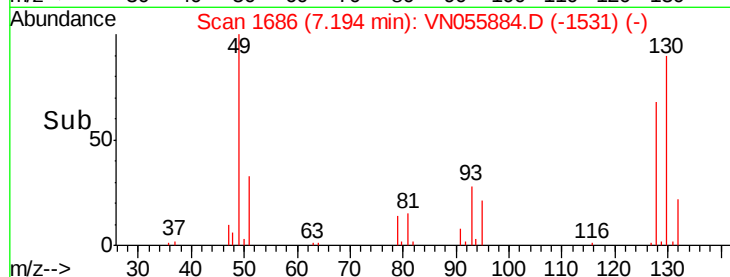
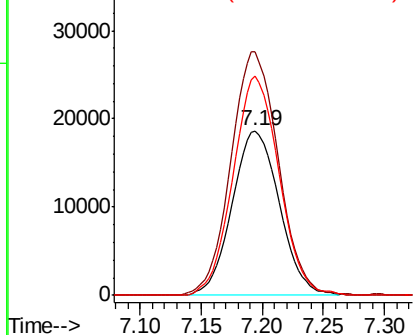
#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. -0.00 min
 Lab File: VN055884.D
 Acq: 29 May 2019 17:53

Instrument :
 MSVOA_N
 ClientSampled :
 14B-4

Tot Ion:128 Resp: 50099
 Ion Ratio Lower Upper
 128 100
 49 148.8 0.0 383.2
 130 130.0 0.0 326.3

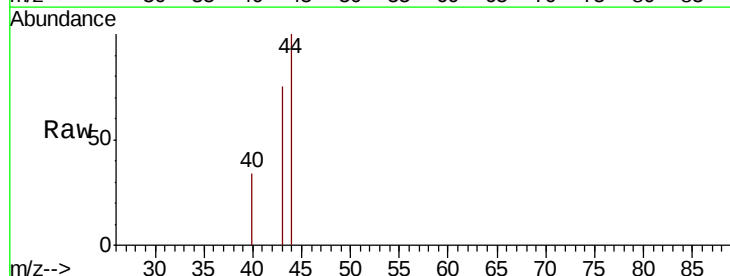


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VN
 Ion 130.00 (129.70 to 130.70): V

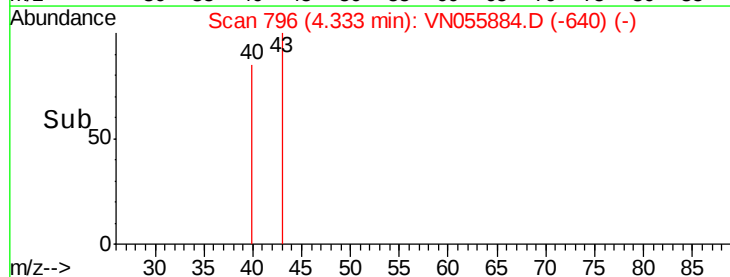
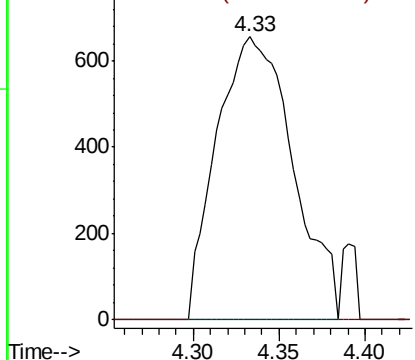


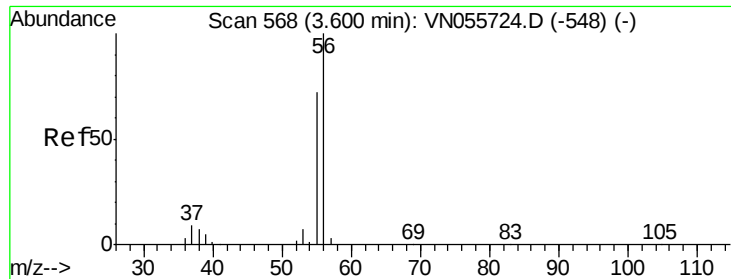
#12
 Methyl Acetate
 Concen: 0.629 ug/l
 RT: 4.33 min Scan# 796
 Delta R.T. 0.00 min
 Lab File: VN055884.D
 Acq: 29 May 2019 17:53

Tgt Ion: 43 Resp: 2034
 Ion Ratio Lower Upper
 43 100
 74 0.0 19.2 28.8#



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





#13

Acrolein

Concen: 0.200 ug/l

RT: 3.31 min Scan# 477

Delta R.T. -0.29 min

Lab File: VN055884.D

Acq: 29 May 2019 17:53

Instrument :

MSVOA_N

ClientSampleId :

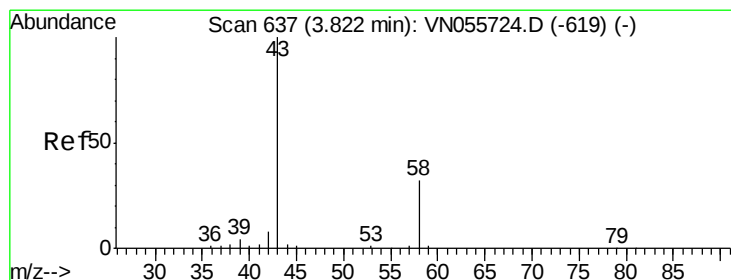
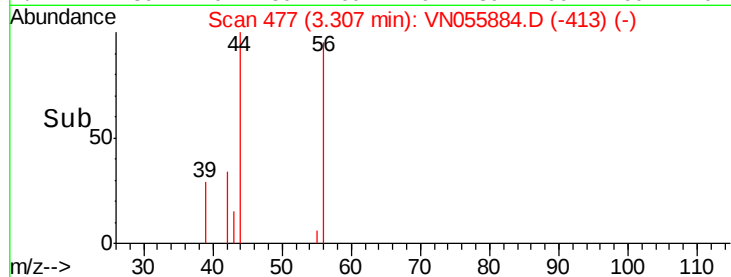
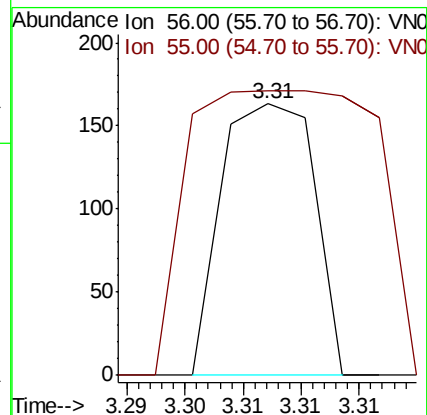
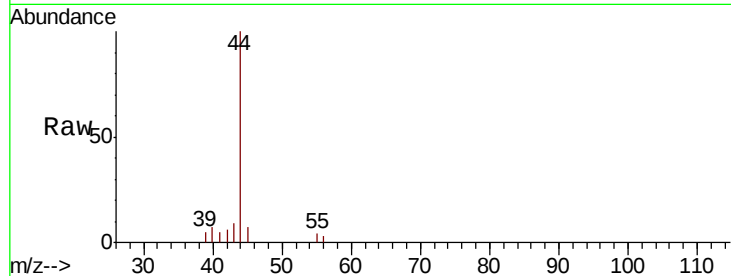
14B-4

Tot Ion: 56 Resp: 90

Ion Ratio Lower Upper

56 100

55 178.9 57.0 85.6#



#15

Acetone

Concen: 0.221 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN055884.D

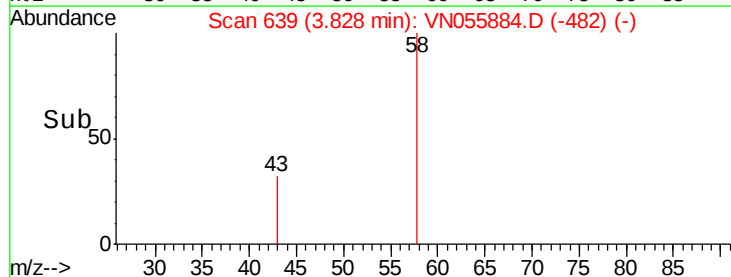
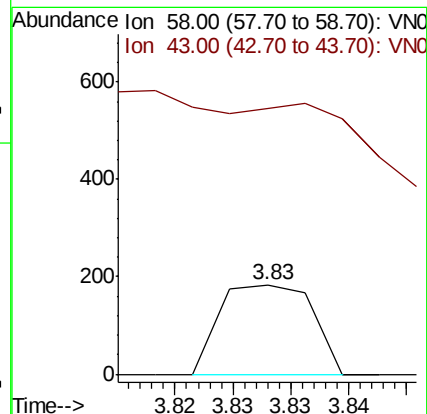
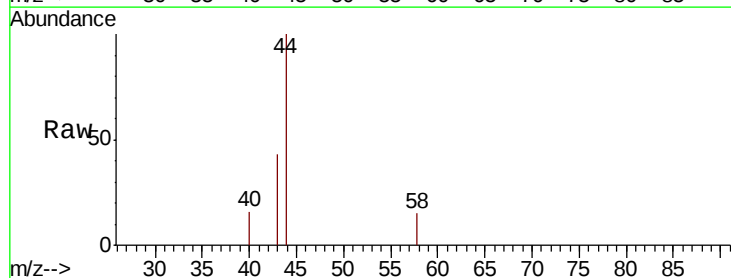
Acq: 29 May 2019 17:53

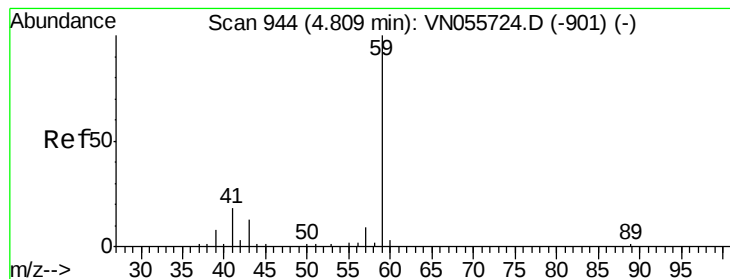
Tgt Ion: 58 Resp: 101

Ion Ratio Lower Upper

58 100

43 10.9 248.8 373.2#



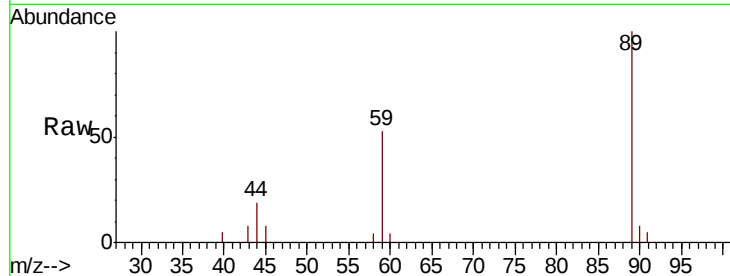


#23

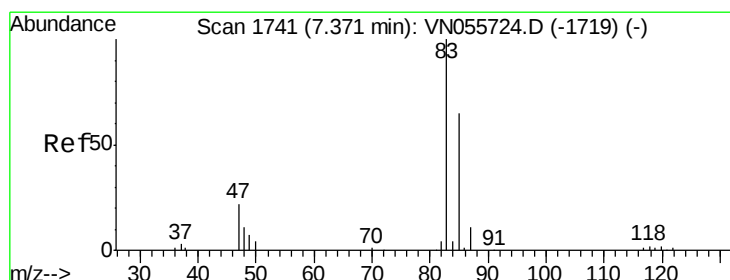
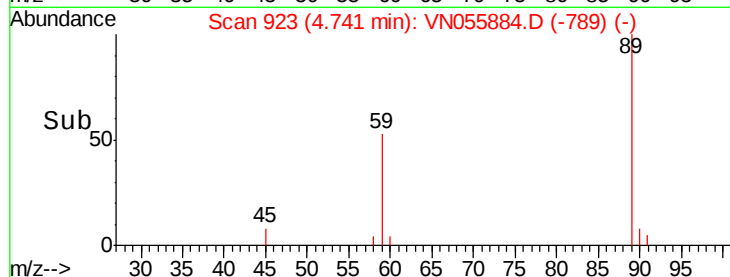
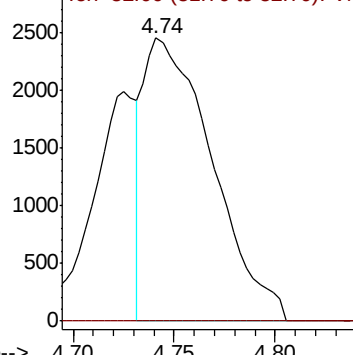
tert-Butyl Alcohol
 Concen: 8.912 ug/l
 RT: 4.74 min Scan# 923
 Delta R.T. -0.07 min
 Lab File: VN055884.D
 Acq: 29 May 2019 17:53

Instrument :
 MSVOA_N
 ClientSampled :
 14B-4

Tot Ion: 59 Resp: 5771
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0



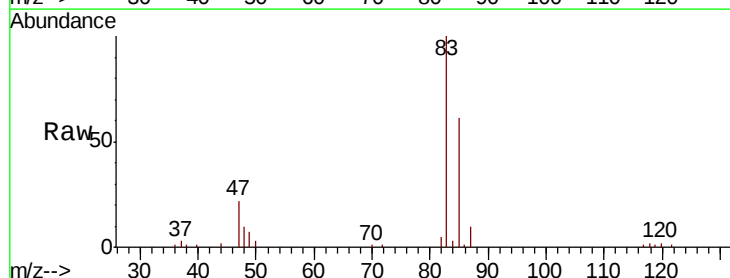
Abundance Ion 59.00 (58.70 to 59.70): VN0
 Ion 52.00 (51.70 to 52.70): VN0



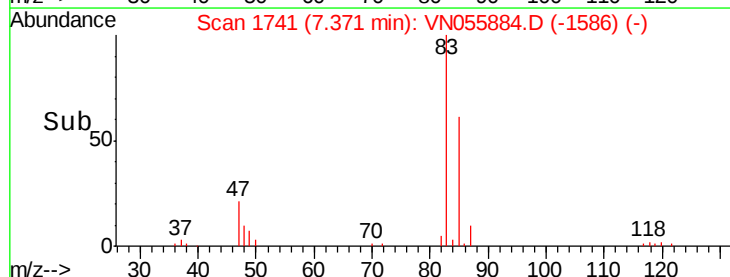
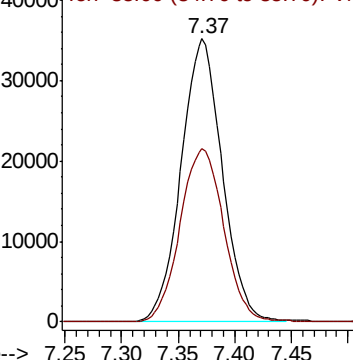
#25

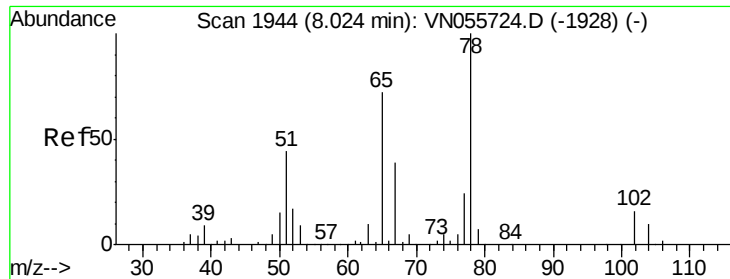
Chloroform
 Concen: 17.301 ug/l
 RT: 7.37 min Scan# 1741
 Delta R.T. -0.00 min
 Lab File: VN055884.D
 Acq: 29 May 2019 17:53

Tgt Ion: 83 Resp: 89223
 Ion Ratio Lower Upper
 83 100
 85 61.4 51.7 77.5



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





#27

1,2-Dichloroethane-d4

Concen: 31.302 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN055884.D

Acq: 29 May 2019 17:53

Instrument :

MSVOA_N

ClientSampled :

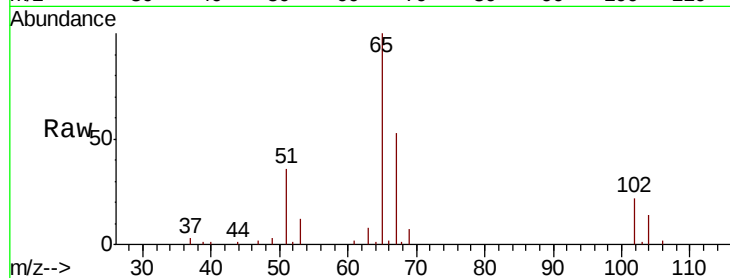
14B-4

Tot Ion: 65 Resp: 102503

Ion Ratio Lower Upper

65 100

67 54.1 43.5 65.3



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

8.03

50000

40000

30000

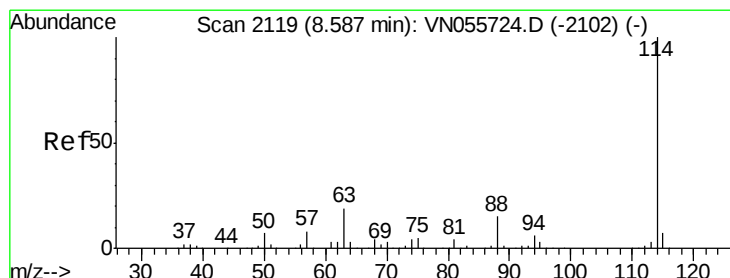
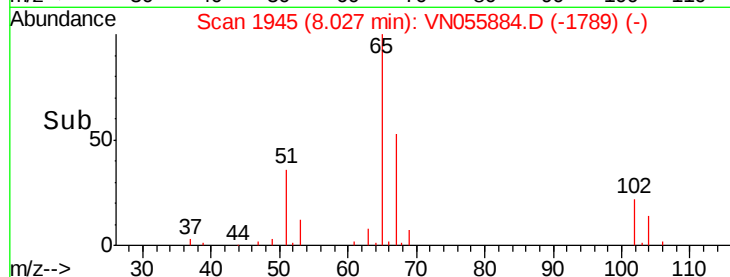
20000

10000

0

8.00 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: VN055884.D

Acq: 29 May 2019 17:53

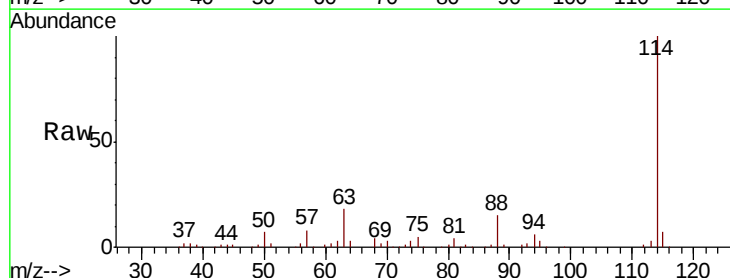
Tgt Ion: 114 Resp: 269993

Ion Ratio Lower Upper

114 100

63 18.6 15.6 23.4

88 15.0 12.3 18.5



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 88.00 (87.70 to 88.70): VN0

8.59

150000

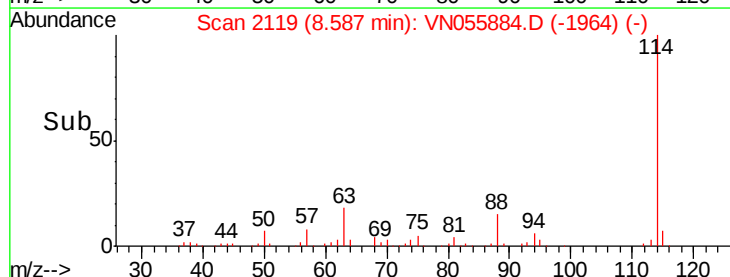
100000

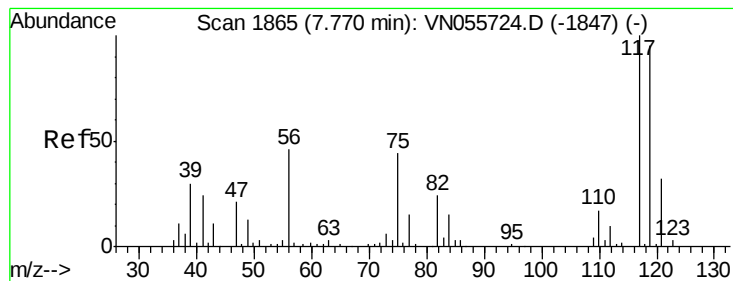
50000

0

8.50 8.60 8.70

Time-->





#33

Carbon Tetrachloride

Concen: 0.242 ug/l

RT: 7.36 min Scan# 1739

Delta R.T. -0.41 min

Lab File: VN055884.D

Acq: 29 May 2019 17:53

Instrument :

MSVOA_N

ClientSampled :

14B-4

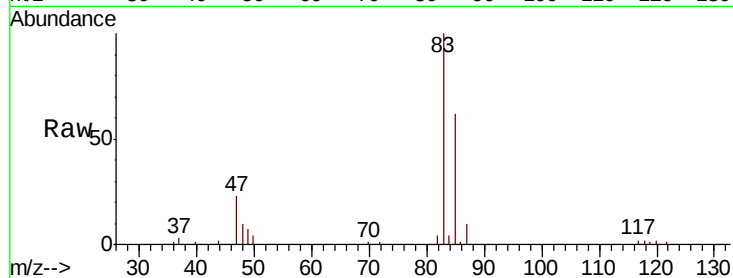
Tot Ion:117 Resp: 970

Ion Ratio Lower Upper

117 100

119 91.4 75.8 113.8

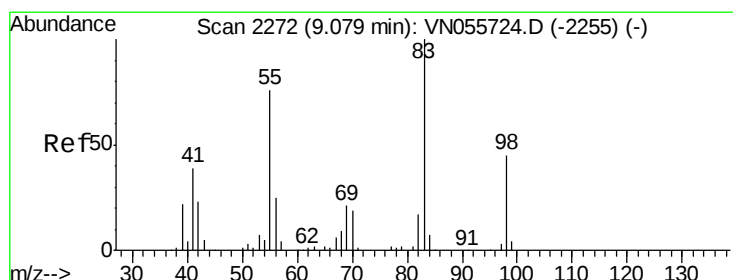
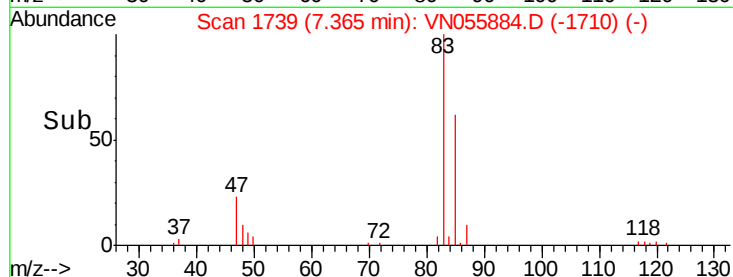
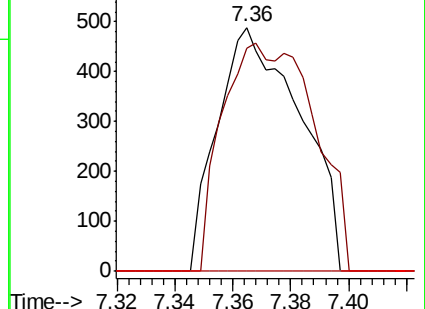
121 37.3 25.4 38.0



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



#38

Methylcyclohexane

Concen: 1.446 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.32 min

Lab File: VN055884.D

Acq: 29 May 2019 17:53

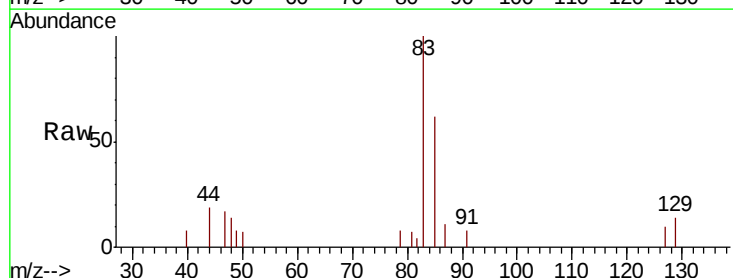
Tgt Ion: 83 Resp: 6924

Ion Ratio Lower Upper

83 100

55 0.0 37.8 113.4#

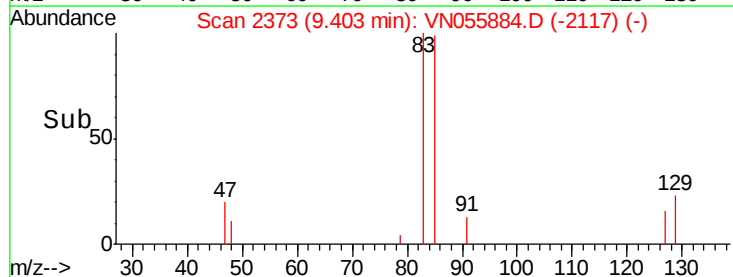
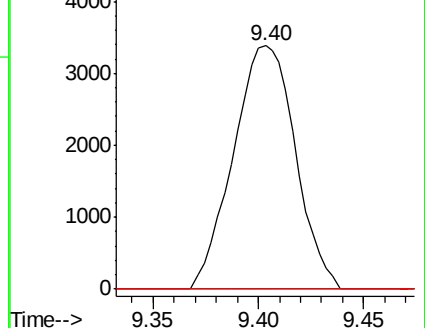
98 0.0 22.6 67.8#

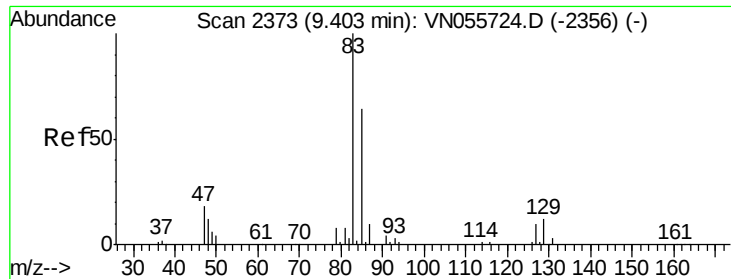


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.00 (97.70 to 98.70): V

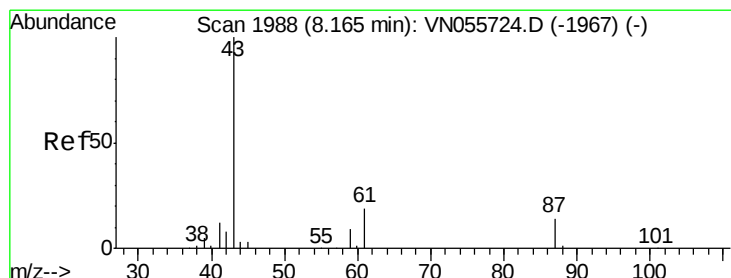
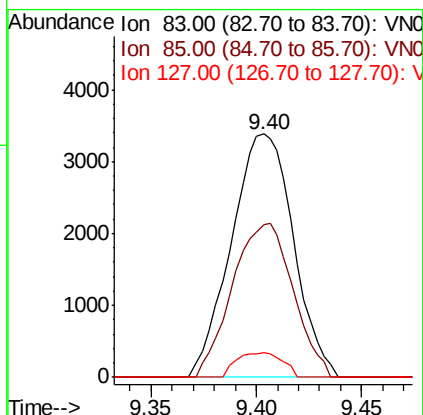
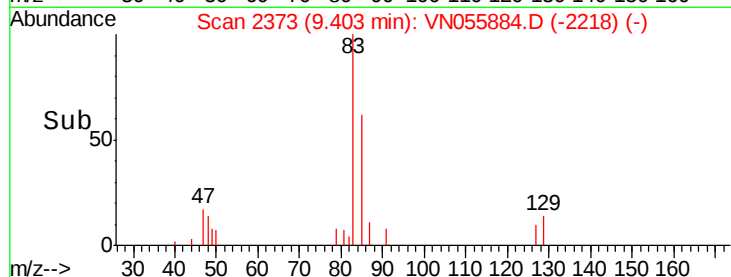
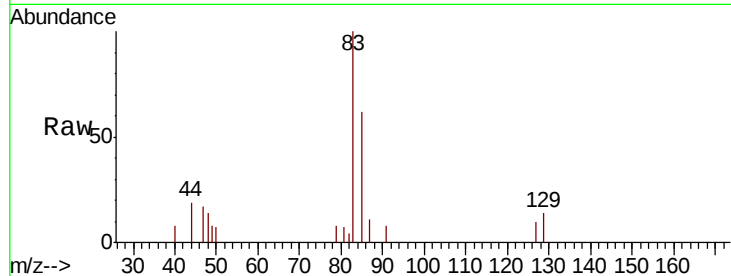




#41
 Bromodichloromethane
 Concen: 1.668 ug/l
 RT: 9.40 min Scan# 2373
 Delta R.T. -0.00 min
 Lab File: VN055884.D
 Acq: 29 May 2019 17:53

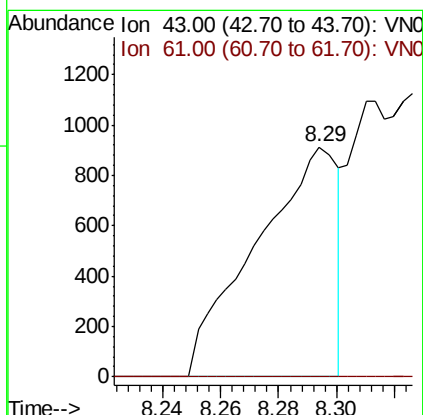
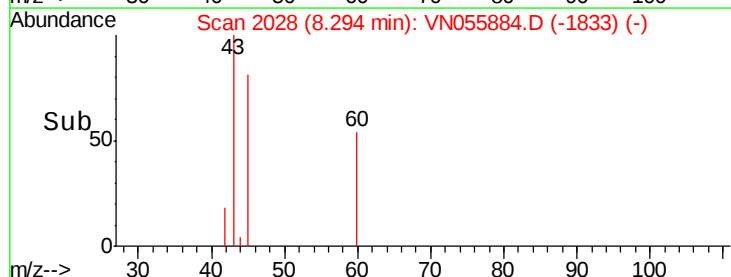
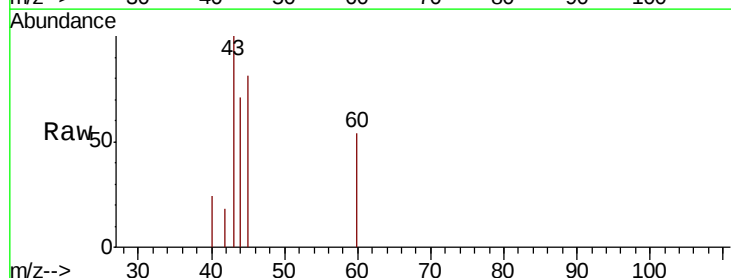
Instrument :
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 14B-4

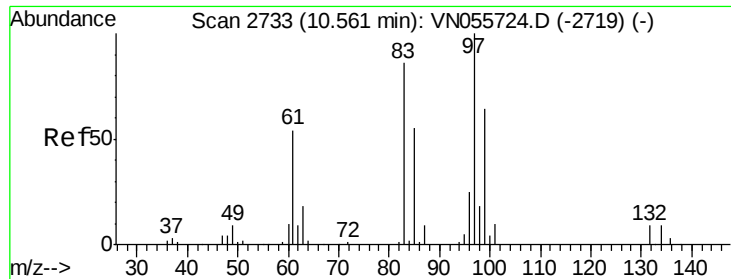
Tot Ion: 83 Resp: 6924
 Ion Ratio Lower Upper
 83 100
 85 62.5 51.4 77.0
 127 10.0 7.7 11.5



#44
 Isopropyl Acetate
 Concen: 0.273 ug/l
 RT: 8.29 min Scan# 2028
 Delta R.T. 0.13 min
 Lab File: VN055884.D
 Acq: 29 May 2019 17:53

Tgt Ion: 43 Resp: 1789
 Ion Ratio Lower Upper
 43 100
 61 0.0 22.1 33.1#

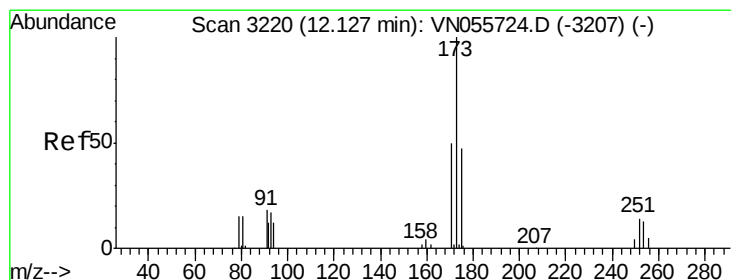
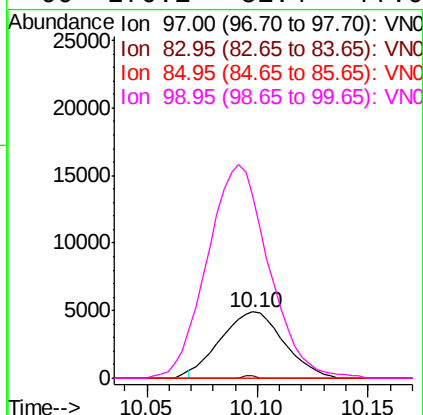
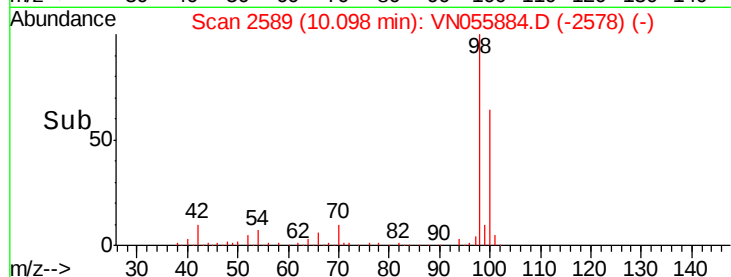
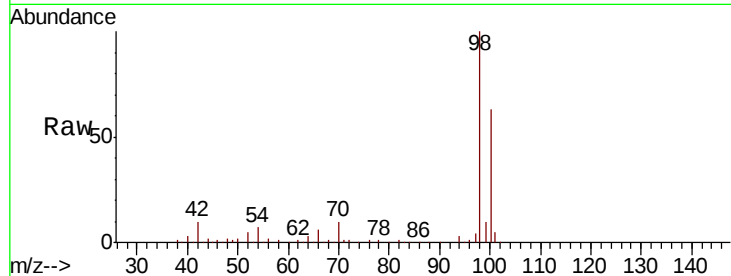




#50
 1,1,2-Trichloroethane
 Concen: 3.340 ug/l
 RT: 10.10 min Scan# 2589
 Delta R.T. -0.46 min
 Lab File: VN055884.D
 Acq: 29 May 2019 17:53

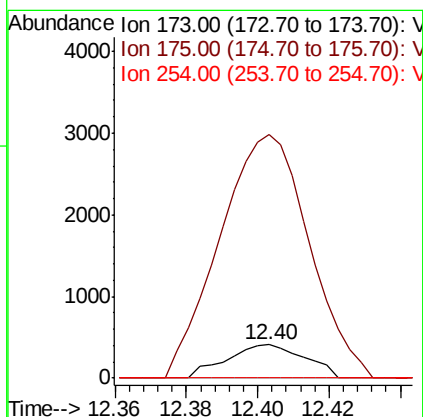
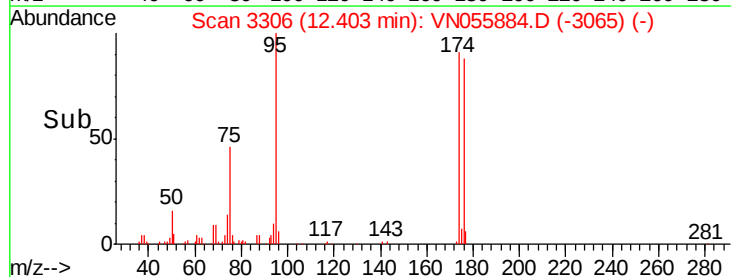
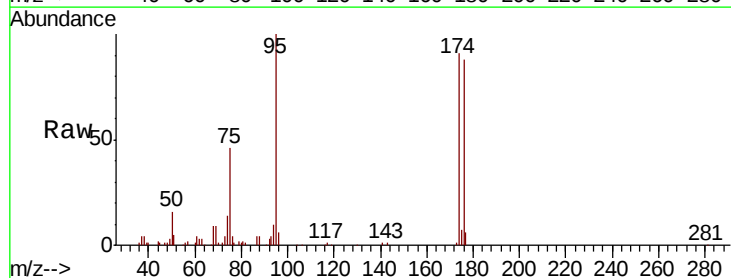
Instrument :
 MSVOA_N
 ClientSampleId :
 14B-4

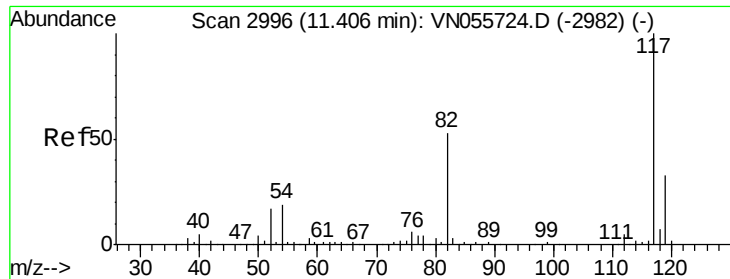
Tot Ion: 97 Resp: 9848
 Ion Ratio Lower Upper
 97 100
 83 3.2 68.9 103.3#
 85 0.0 44.3 66.5#
 99 270.1 51.4 77.0#



#56
 Bromoform
 Concen: 0.218 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.28 min
 Lab File: VN055884.D
 Acq: 29 May 2019 17:53

Tgt Ion: 173 Resp: 622
 Ion Ratio Lower Upper
 173 100
 175 830.5 38.5 57.7#
 254 0.0 9.4 14.0#

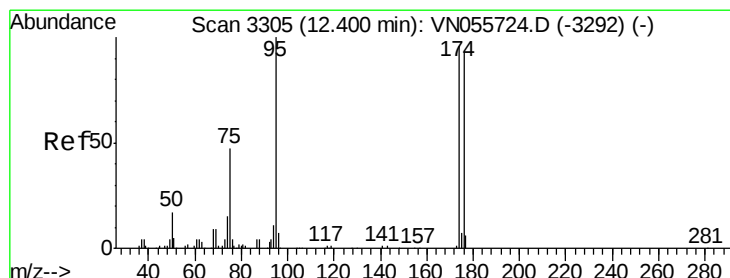
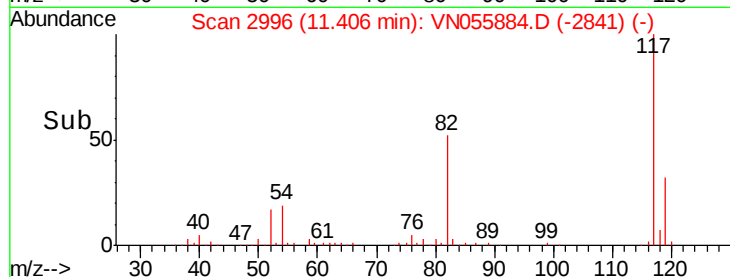
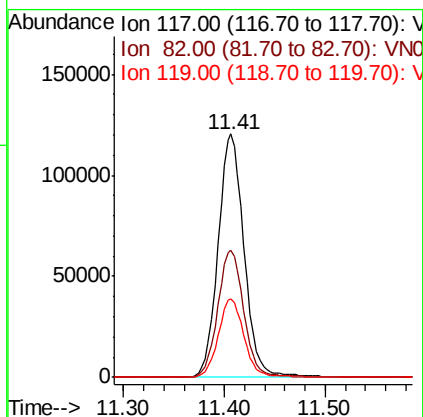
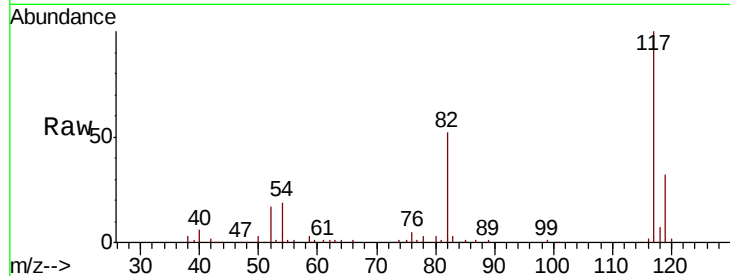




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055884.D
Acq: 29 May 2019 17:53

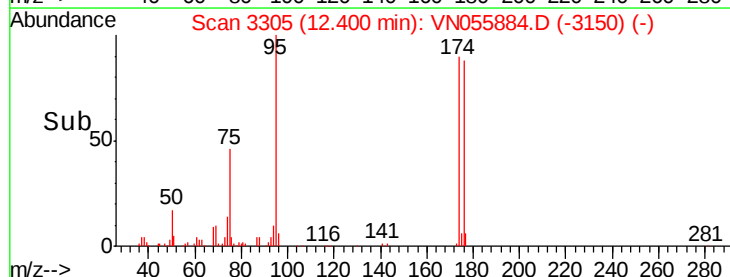
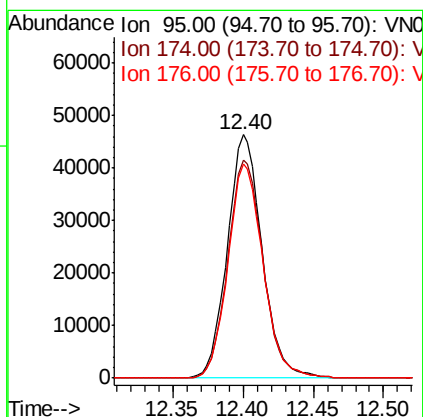
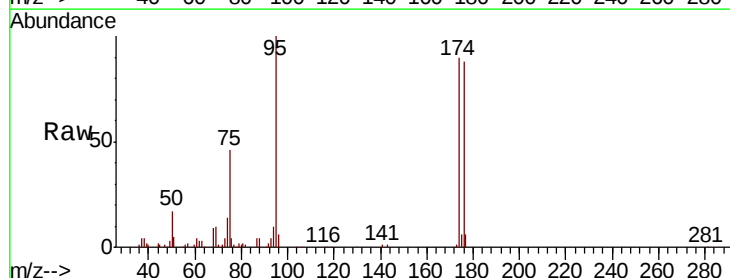
Instrument :
MSVOA_N
ClientSampleId :
14B-4

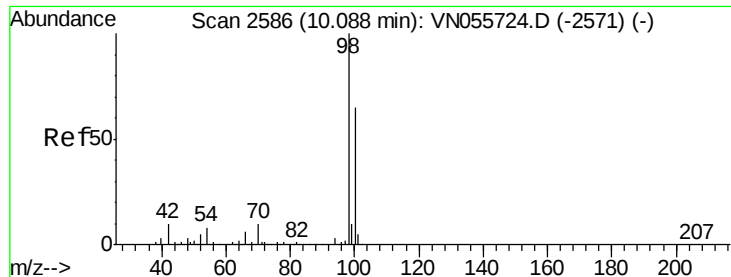
Tot Ion:117 Resp: 216228
Ion Ratio Lower Upper
117 100
82 52.7 42.6 64.0
119 32.0 25.9 38.9



#60
4-Bromofluorobenzene
Concen: 23.726 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN055884.D
Acq: 29 May 2019 17:53

Tgt Ion: 95 Resp: 79805
Ion Ratio Lower Upper
95 100
174 91.0 75.7 113.5
176 89.0 74.1 111.1





#63

Toluene-d8

Concen: 31.850 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055884.D

Acq: 29 May 2019 17:53

Instrument :

MSVOA_N

ClientSampleId :

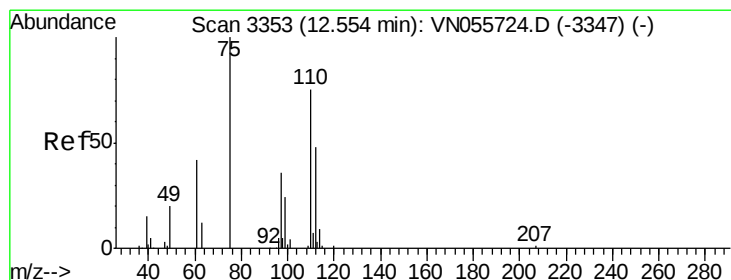
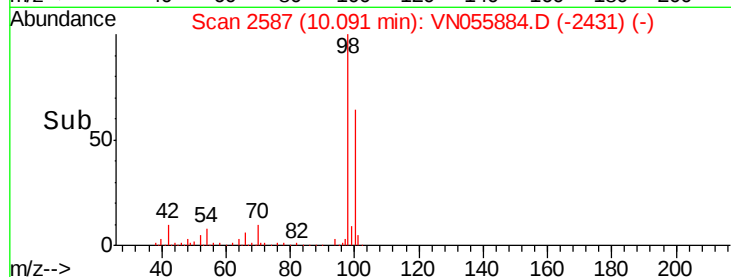
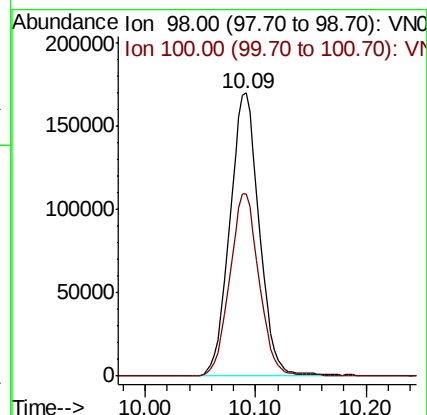
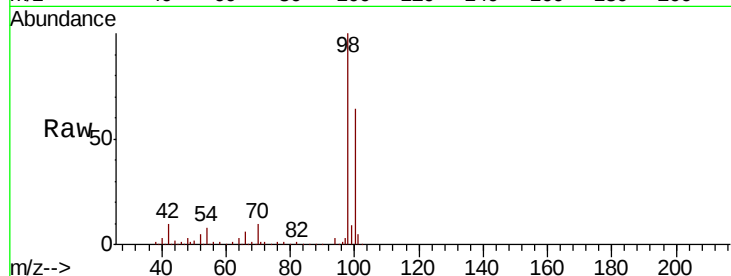
14B-4

Tot Ion: 98 Resp: 314727

Ion Ratio Lower Upper

98 100

100 63.8 51.6 77.4



#72

1,2,3-Trichloropropane

Concen: 11.225 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055884.D

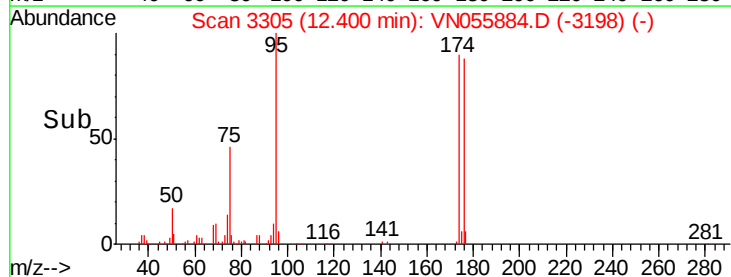
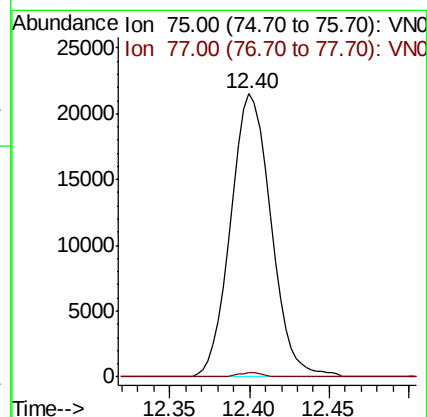
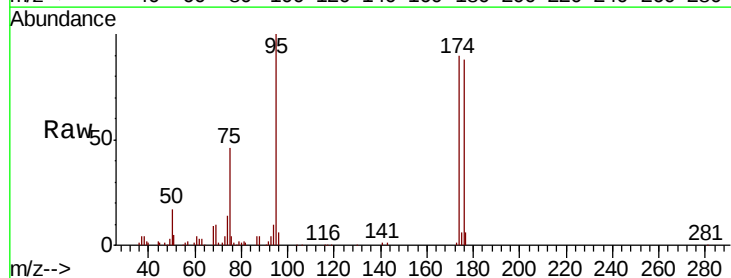
Acq: 29 May 2019 17:53

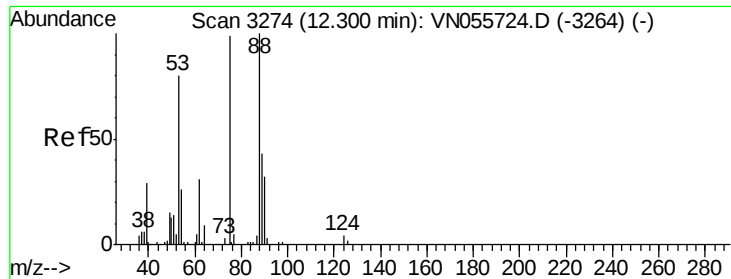
Tgt Ion: 75 Resp: 37152

Ion Ratio Lower Upper

75 100

77 0.9 0.0 349.8





#77
 t-1,4-Dichloro-2-butene
 Concen: 28.259 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN055884.D
 Acq: 29 May 2019 17:53

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-4

Tot Ion: 75 Resp: 37152
 Ion Ratio Lower Upper
 75 100
 53 0.0 40.1 120.3#
 89 0.0 22.6 67.8#

