

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021419\
 Data File : VN053784.D
 Acq On : 14 Feb 2019 17:22
 Operator : JC/SP
 Sample : PB117097ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 15 01:05:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	721637	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1229878	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1151025	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	457401	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	386603	53.40	ug/l	0.00
Spiked Amount			Recovery	=	106.80%	
35) Dibromofluoromethane	7.59	113	389222	50.08	ug/l	0.00
Spiked Amount			Recovery	=	100.16%	
50) Toluene-d8	10.09	98	1492686	51.16	ug/l	0.00
Spiked Amount			Recovery	=	102.32%	
62) 4-Bromofluorobenzene	12.40	95	494575	50.82	ug/l	0.00
Spiked Amount			Recovery	=	101.64%	

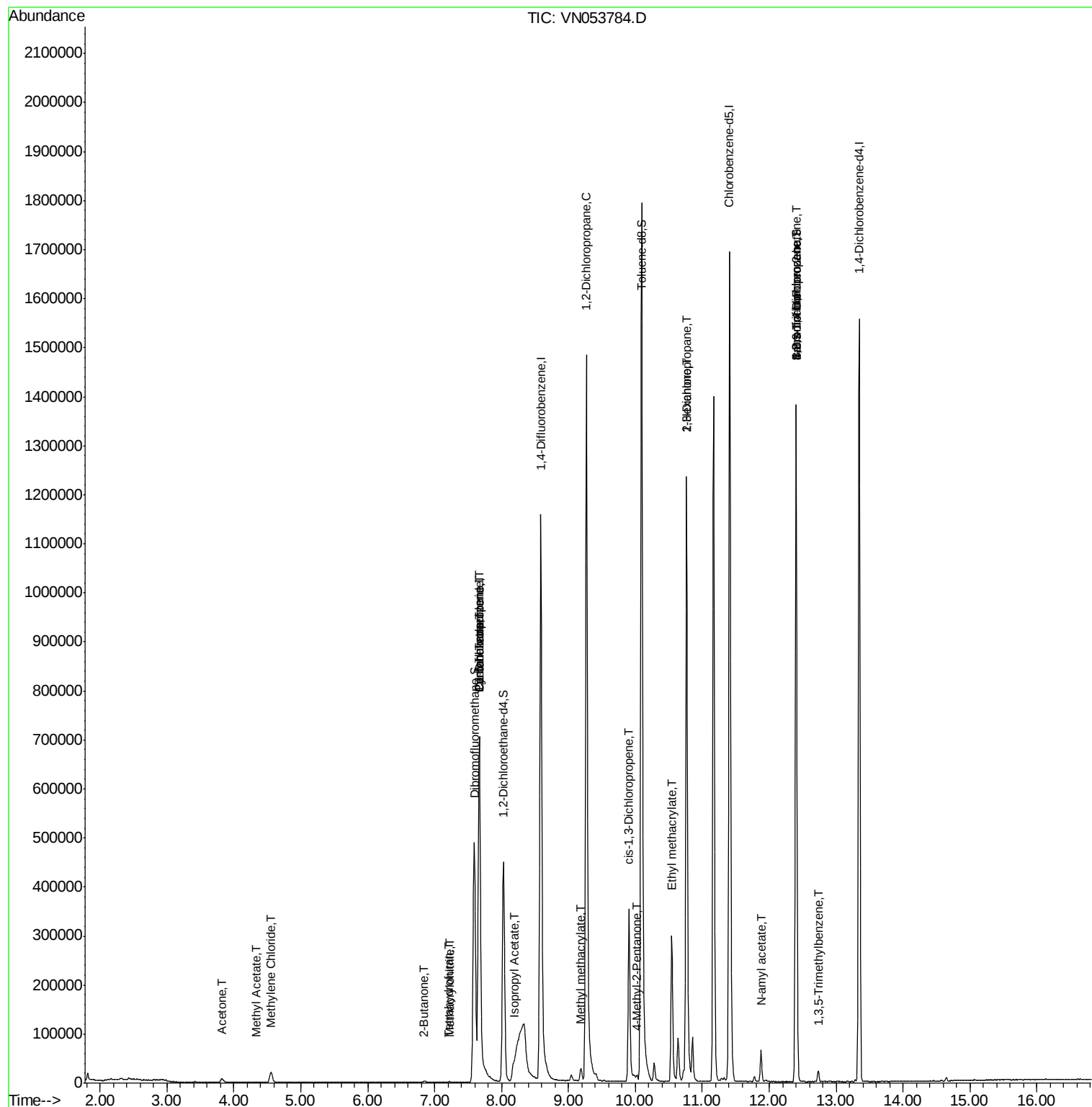
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	14227	7.662	ug/l	93
18) Methyl Acetate	4.32	43	2256	0.410	ug/l #	78
20) Methylene Chloride	4.55	84	16790	2.155	ug/l	95
25) 2-Butanone	6.83	43	1240	0.468	ug/l	94
29) Tetrahydrofuran	7.21	42	765	0.450	ug/l #	73
31) Cyclohexane	7.67	56	10236	0.669	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	41855	3.775	ug/l #	43
38) Carbon Tetrachloride	7.67	117	58627	5.249	ug/l #	16
41) Methacrylonitrile	7.22	41	712	0.206	ug/l #	31
43) Isopropyl Acetate	8.18	43	32856	2.748	ug/l #	84
45) 1,2-Dichloropropane	9.27	63	1889	0.216	ug/l #	43
48) Methyl methacrylate	9.18	41	10394	1.821	ug/l #	12
51) 4-Methyl-2-Pentanone	10.02	43	8826	1.502	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	76775	5.903	ug/l #	62
56) Ethyl methacrylate	10.54	69	1811	0.209	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	13272	1.062	ug/l #	43
59) 2-Hexanone	10.76	43	184797	46.325	ug/l #	50
71) Bromoform	12.40	173	3632	0.620	ug/l #	1
74) N-amyl acetate	11.88	43	19966	2.582	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	228180	38.839	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	11906	0.447	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.40	75	228180	109.212	ug/l #	15

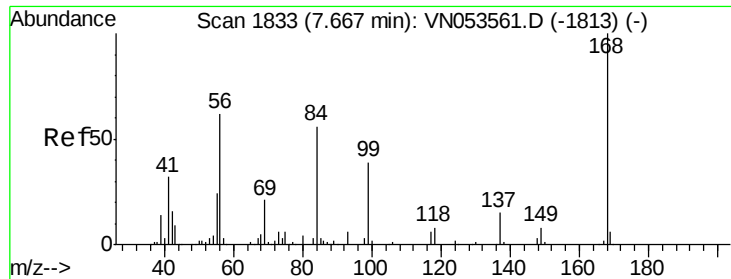
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN021419\
Data File : VN053784.D
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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Feb 15 01:05:23 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 01 09:11:52 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053784.D

Acq: 14 Feb 2019 17:22

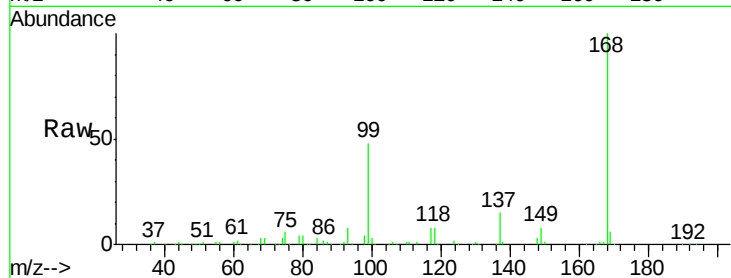
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 721637

Ion Ratio Lower Upper

168 100

99 47.6 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

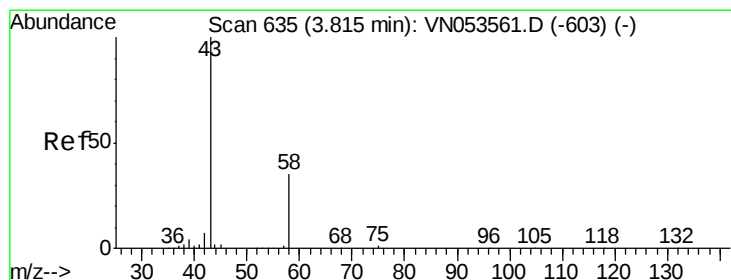
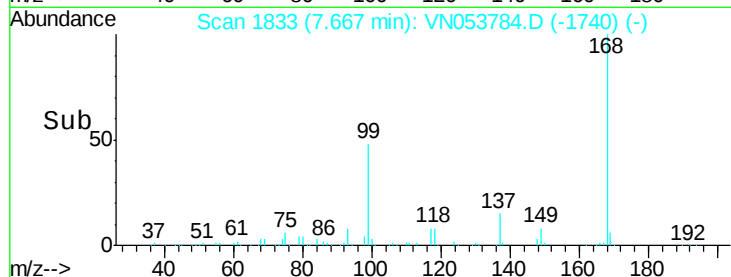
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#16

Acetone

Concen: 7.662 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN053784.D

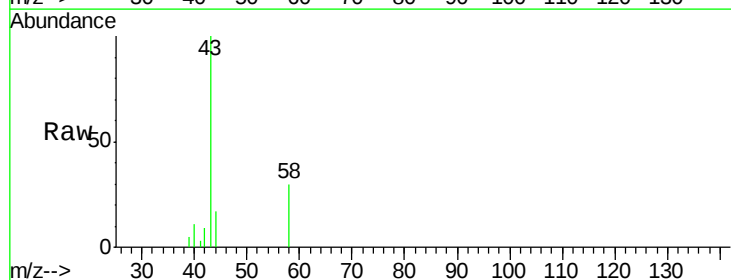
Acq: 14 Feb 2019 17:22

Tgt Ion: 43 Resp: 14227

Ion Ratio Lower Upper

43 100

58 29.8 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.82

6000

5000

4000

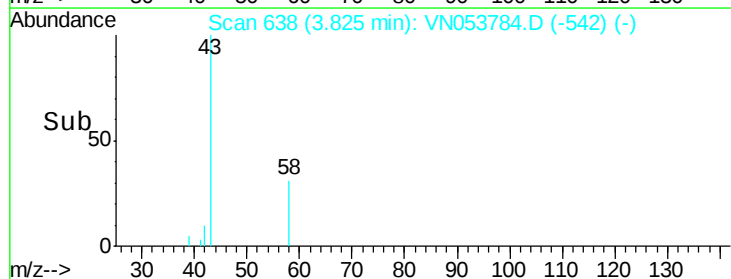
3000

2000

1000

0

Time--> 3.70 3.75 3.80 3.85 3.90





#18

Methyl Acetate

Concen: 0.410 ug/l

RT: 4.32 min Scan# 793

Delta R.T. 0.00 min

Lab File: VN053784.D

Acq: 14 Feb 2019 17:22

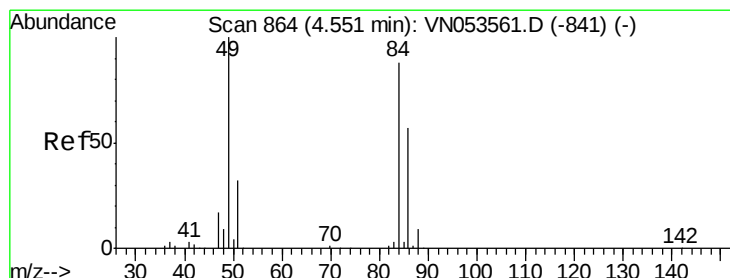
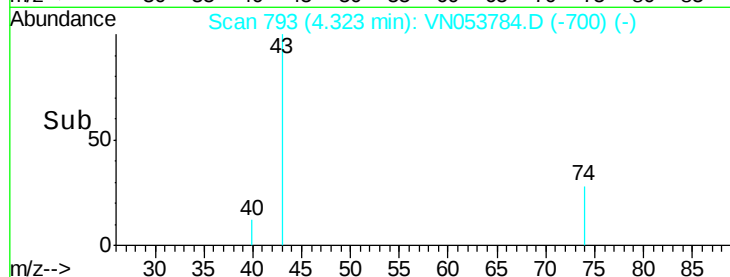
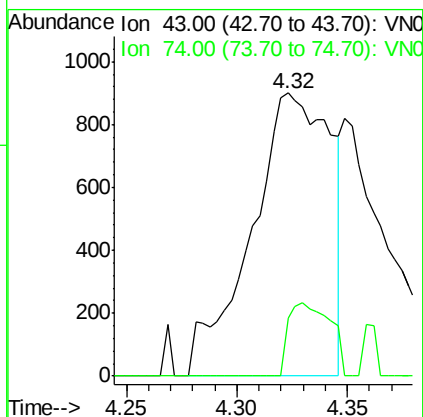
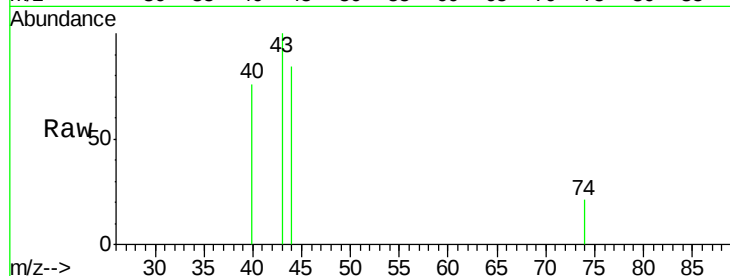
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 2256

Ion Ratio Lower Upper

43 100

74 13.6 19.4 29.2#



#20

Methylene Chloride

Concen: 2.155 ug/l

RT: 4.55 min Scan# 865

Delta R.T. 0.00 min

Lab File: VN053784.D

Acq: 14 Feb 2019 17:22

Tgt Ion: 84 Resp: 16790

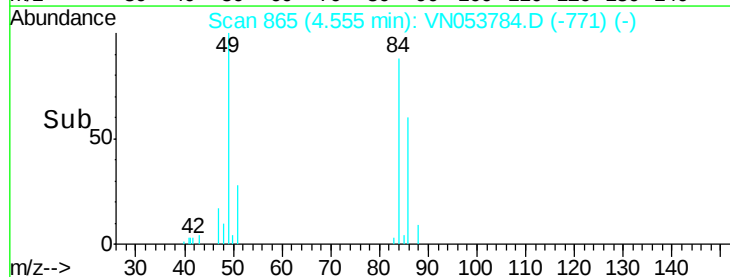
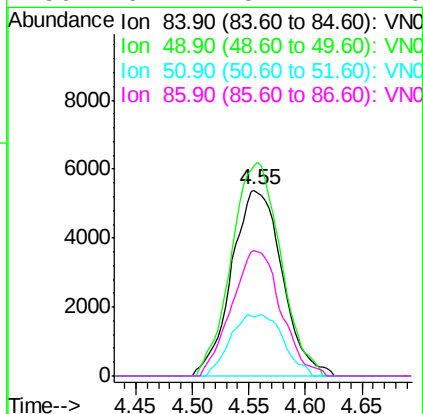
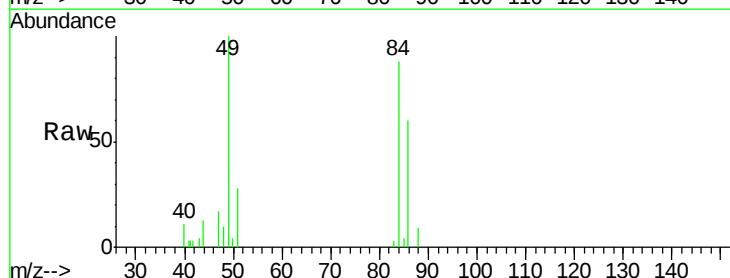
Ion Ratio Lower Upper

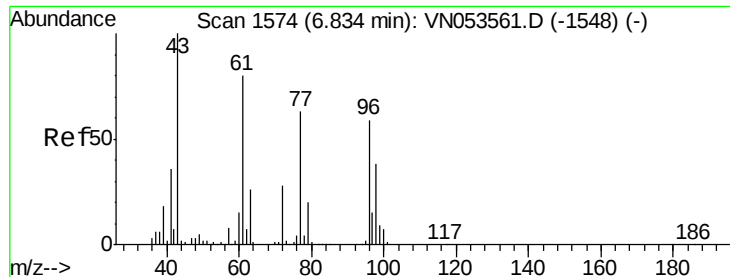
84 100

49 113.1 94.3 141.5

51 31.5 29.4 44.2

86 67.7 51.4 77.0





#25

2-Butanone

Concen: 0.468 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN053784.D

Acq: 14 Feb 2019 17:22

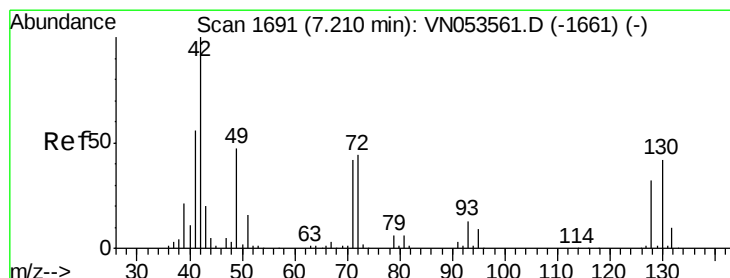
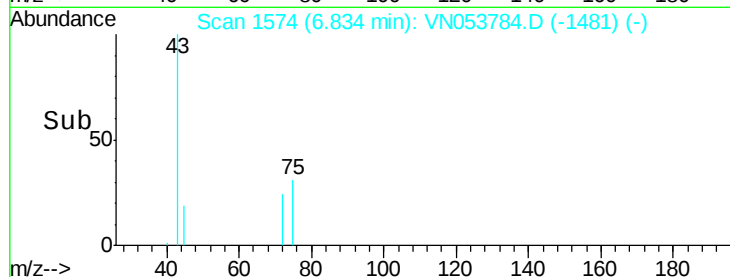
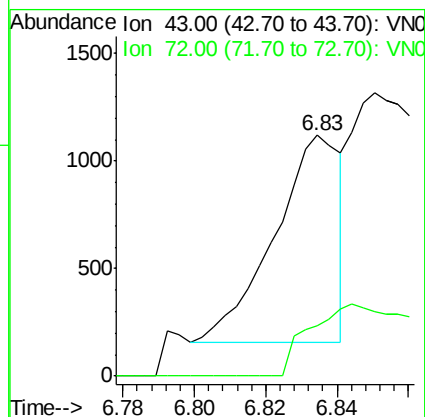
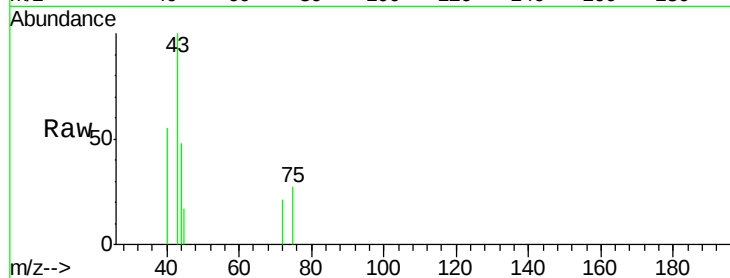
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 1240

Ion Ratio Lower Upper

43 100

72 24.3 22.0 33.0



#29

Tetrahydrofuran

Concen: 0.450 ug/l

RT: 7.21 min Scan# 1690

Delta R.T. -0.00 min

Lab File: VN053784.D

Acq: 14 Feb 2019 17:22

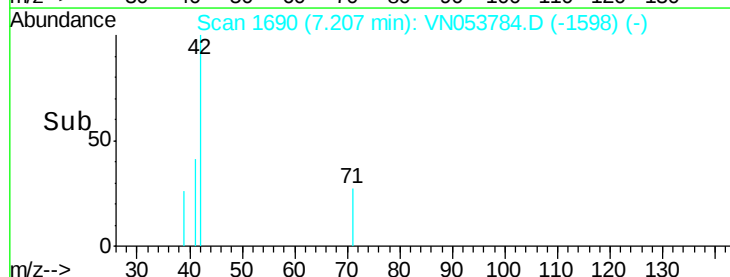
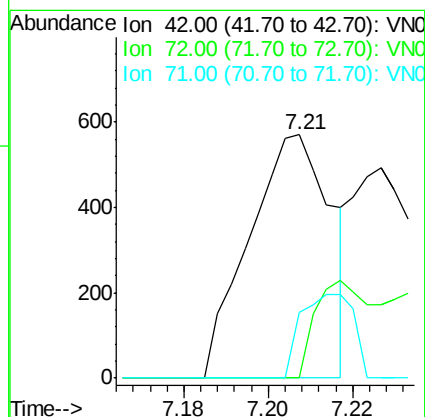
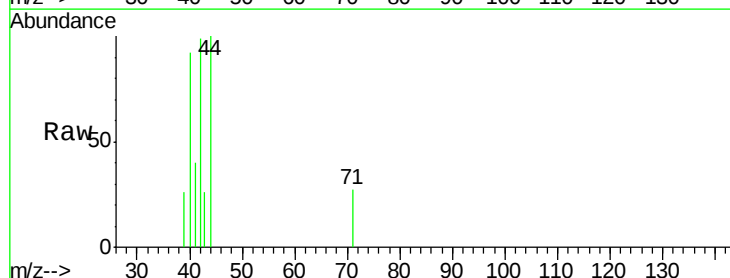
Tgt Ion: 42 Resp: 765

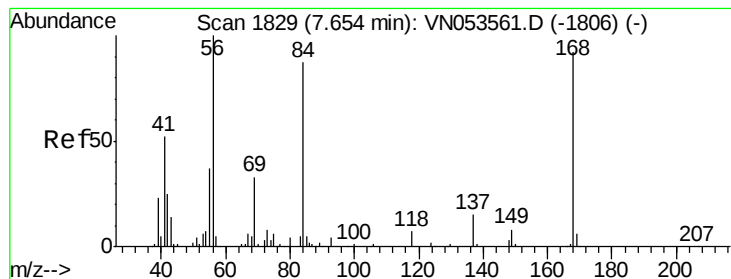
Ion Ratio Lower Upper

42 100

72 28.6 35.2 52.8#

71 22.4 33.0 49.4#





#31

Cyclohexane

Concen: 0.669 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN053784.D

Acq: 14 Feb 2019 17:22

Instrument :
MSVOA_N
ClientSampled :

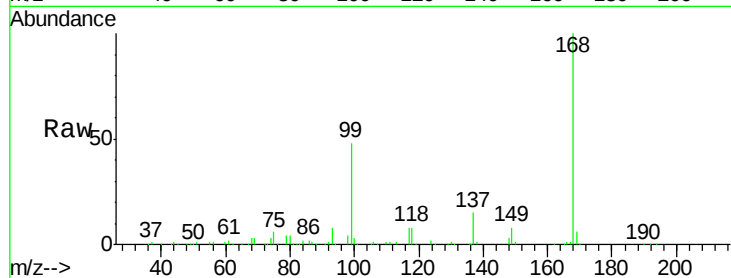
Tot Ion: 56 Resp: 10236

Ion Ratio Lower Upper

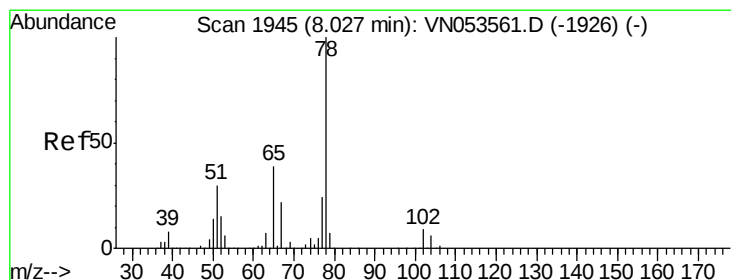
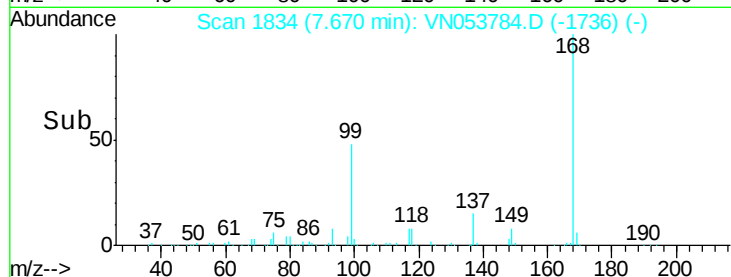
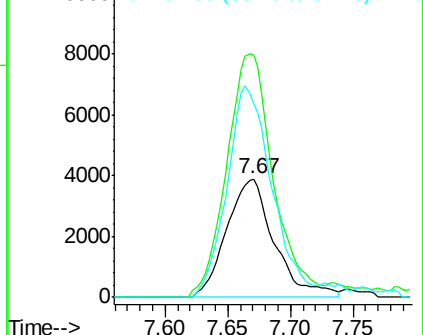
56 100

69 204.0 26.4 39.6#

84 163.4 67.9 101.9#



Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC



#33

1,2-Dichloroethane-d4

Concen: 53.403 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053784.D

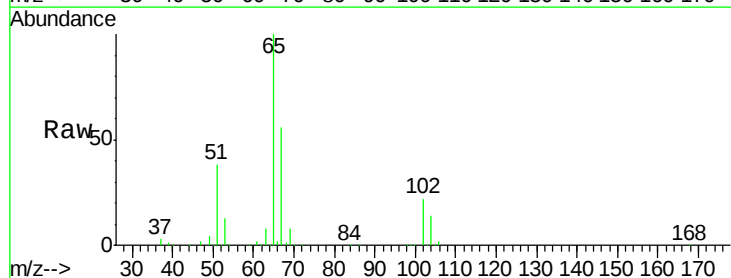
Acq: 14 Feb 2019 17:22

Tgt Ion: 65 Resp: 386603

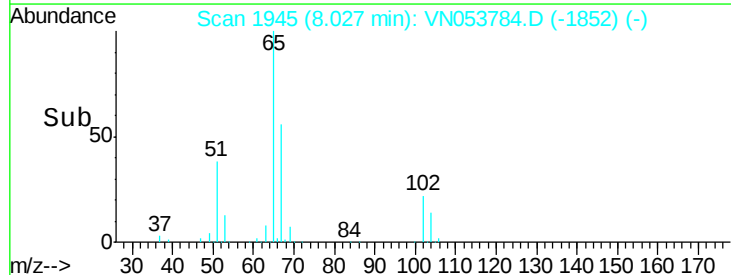
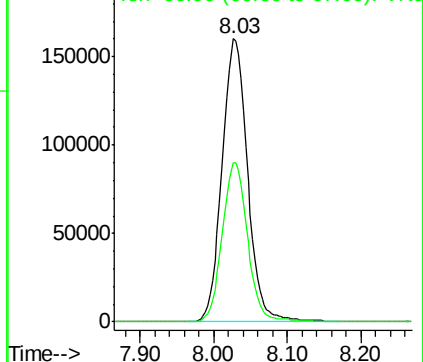
Ion Ratio Lower Upper

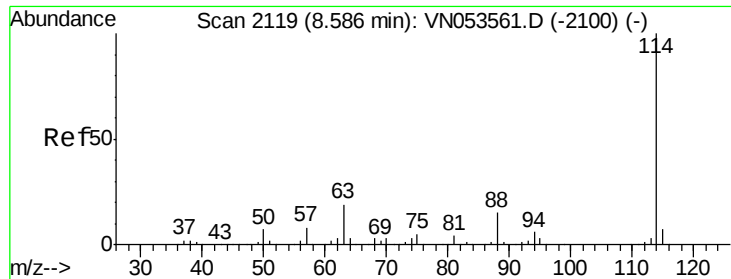
65 100

67 55.4 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC

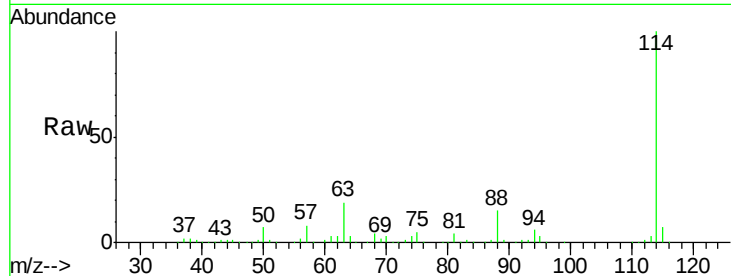




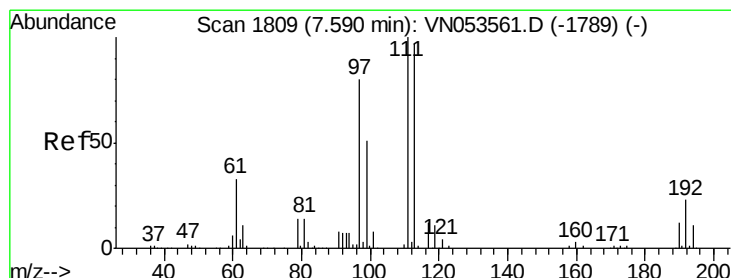
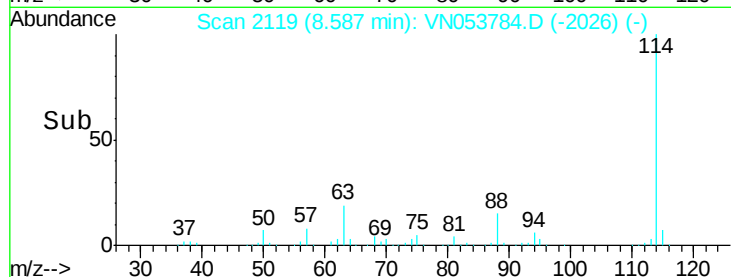
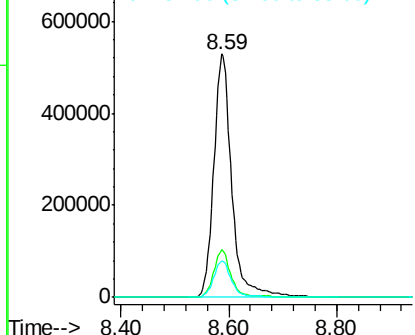
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053784.D
 Acq: 14 Feb 2019 17:22

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 1229878
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 38.6
 88 15.1 0.0 30.4

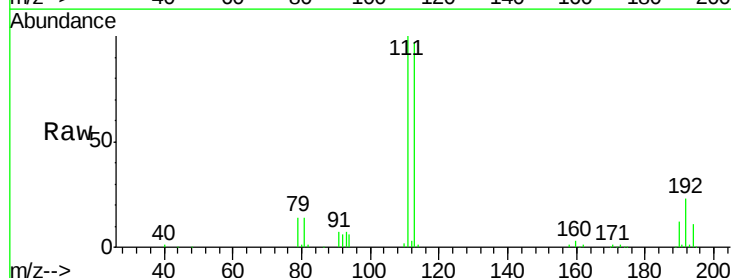


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

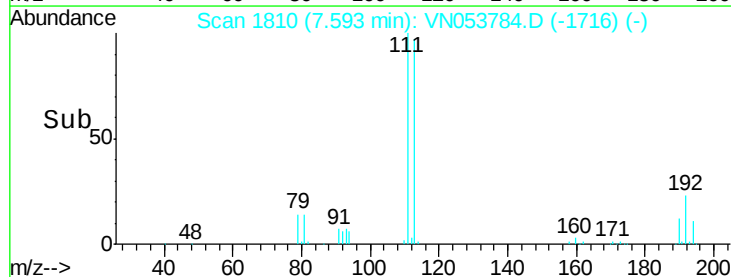
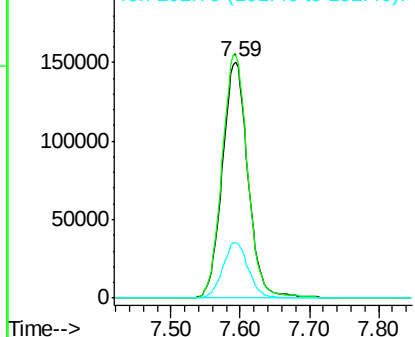


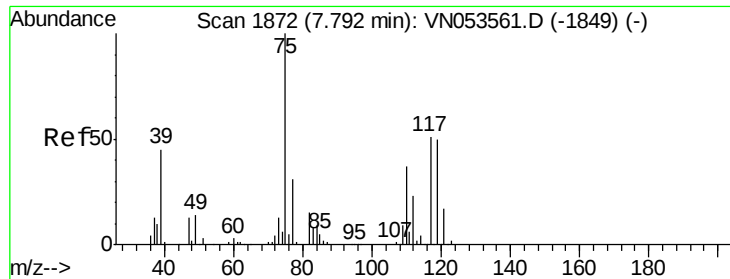
#35
 Dibromofluoromethane
 Concen: 50.085 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053784.D
 Acq: 14 Feb 2019 17:22

Tgt Ion:113 Resp: 389222
 Ion Ratio Lower Upper
 113 100
 111 103.0 81.1 121.7
 192 23.3 18.2 27.2



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.775 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN053784.D

Acq: 14 Feb 2019 17:22

Instrument :
MSVOA_N
ClientSampled :

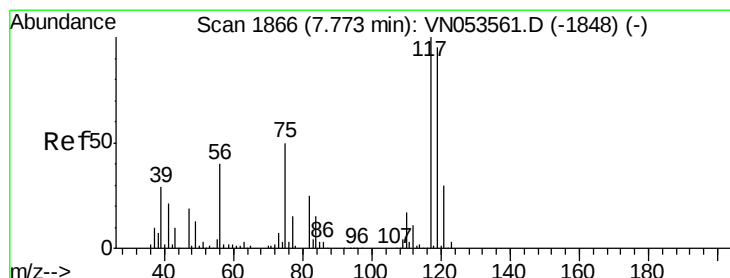
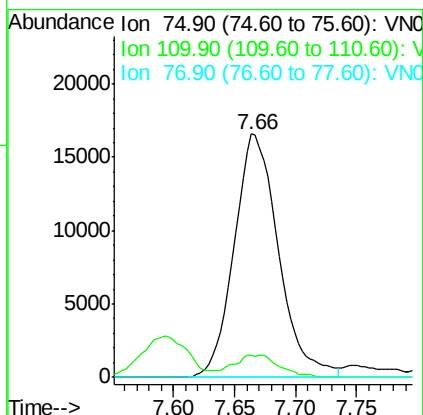
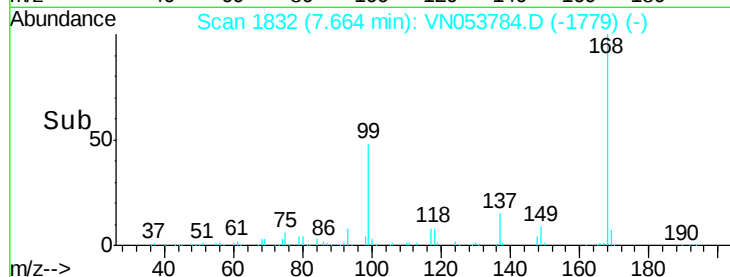
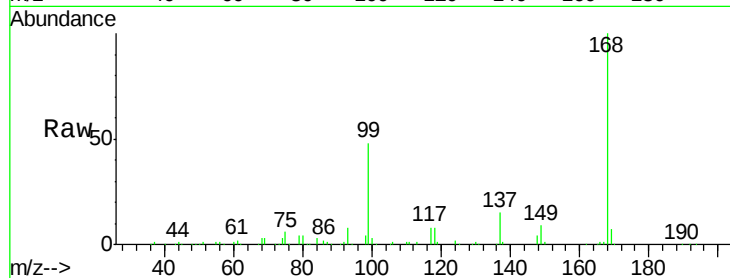
Tot Ion: 75 Resp: 41855

Ion Ratio Lower Upper

75 100

110 2.8 18.1 54.3#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 5.249 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053784.D

Acq: 14 Feb 2019 17:22

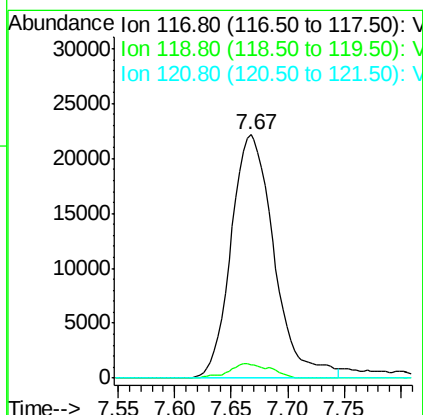
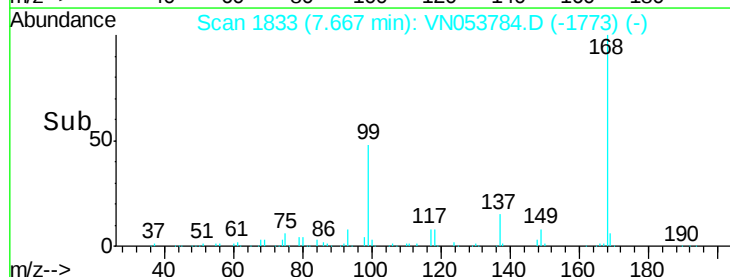
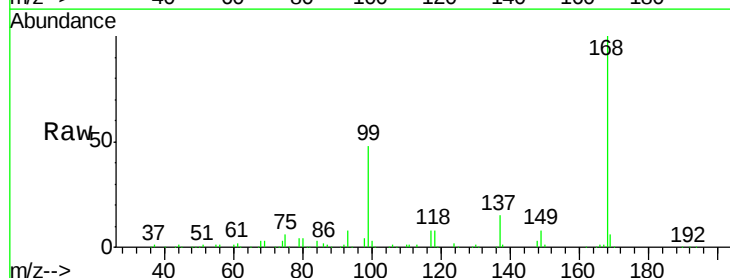
Tgt Ion: 117 Resp: 58627

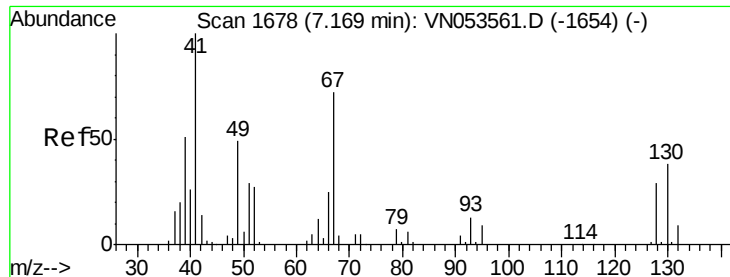
Ion Ratio Lower Upper

117 100

119 5.7 77.2 115.8#

121 0.0 24.6 37.0#

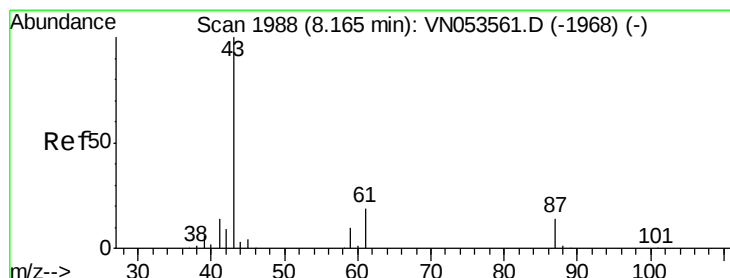
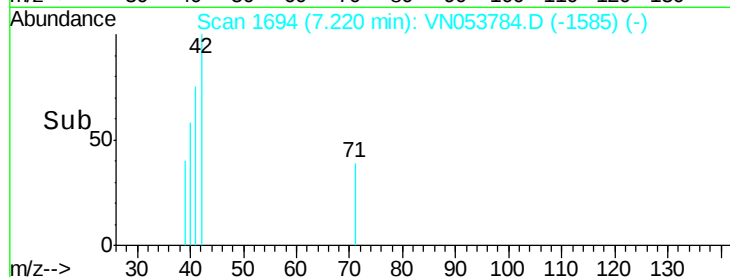
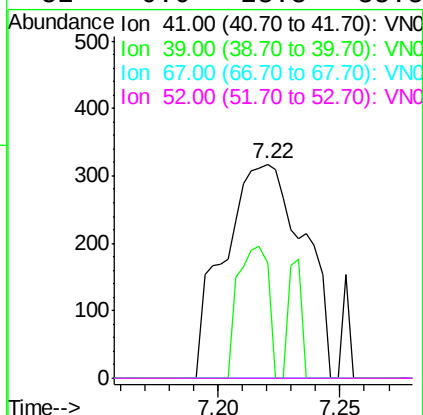
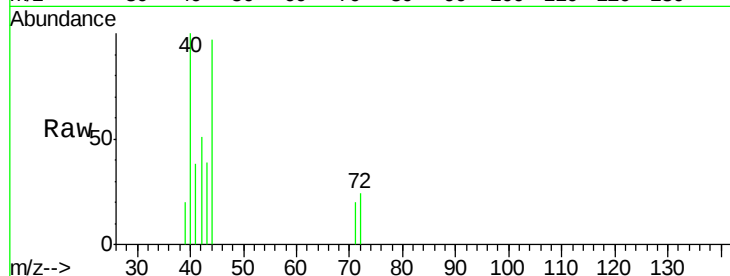




#41
Methacrylonitrile
Concen: 0.206 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.05 min
Lab File: VN053784.D
Acq: 14 Feb 2019 17:22

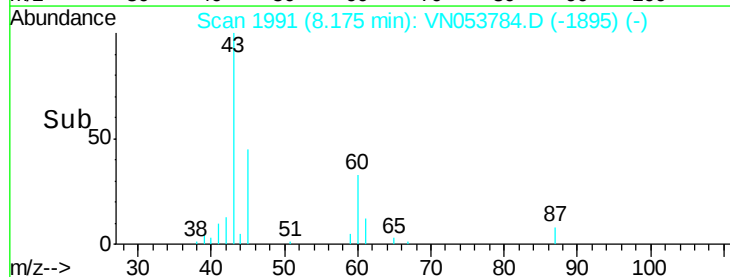
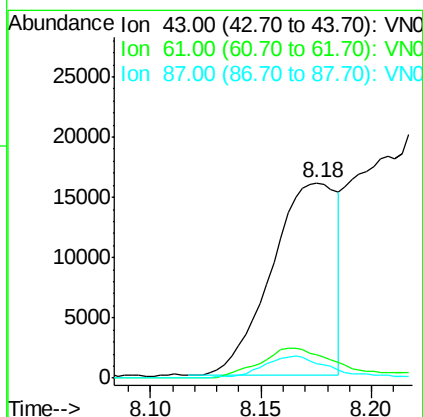
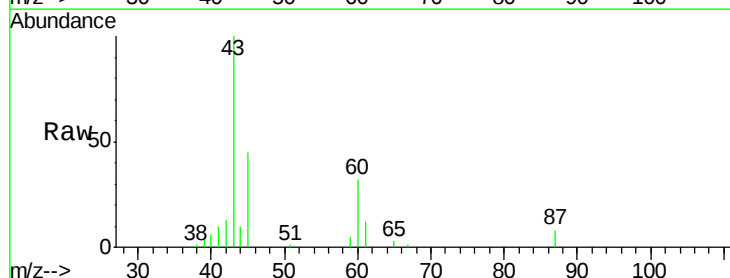
Instrument :
MSVOA_N
ClientSampled :

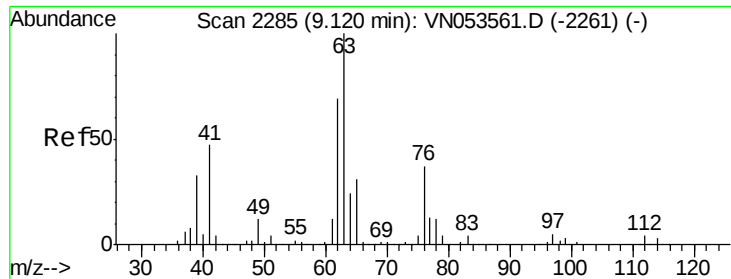
Tot Ion: 41 Resp: 712
Ion Ratio Lower Upper
41 100
39 23.6 46.8 70.2#
67 0.0 63.0 94.6#
52 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 2.748 ug/l
RT: 8.18 min Scan# 1991
Delta R.T. 0.01 min
Lab File: VN053784.D
Acq: 14 Feb 2019 17:22

Tgt Ion: 43 Resp: 32856
Ion Ratio Lower Upper
43 100
61 18.5 23.9 35.9#
87 12.1 11.0 16.6

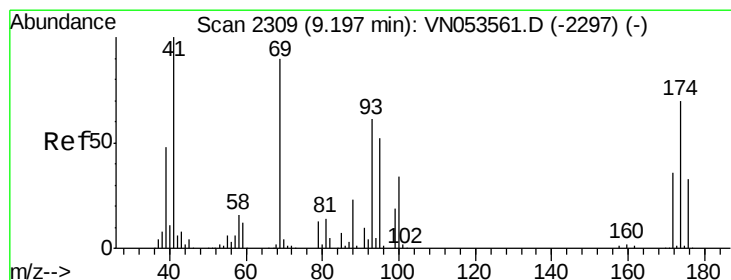
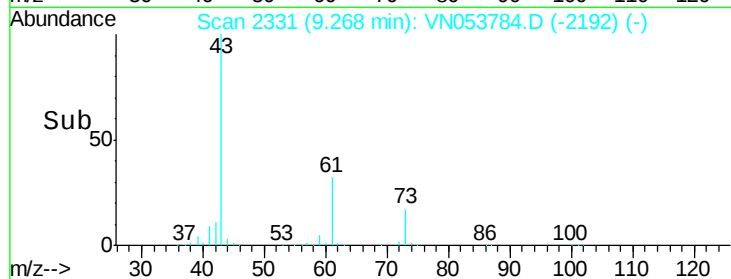
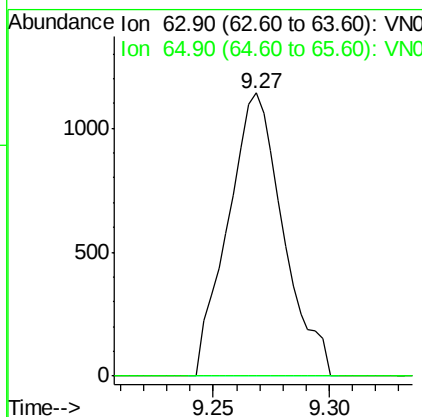
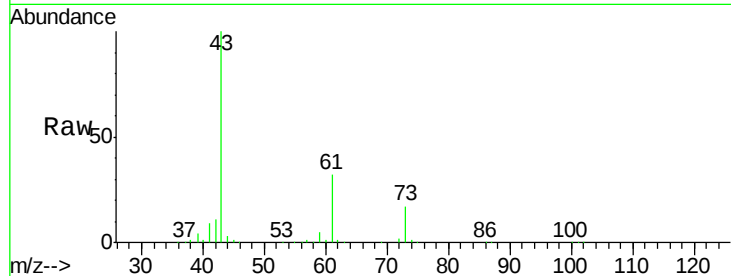




#45
 1,2-Dichloropropane
 Concen: 0.216 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN053784.D
 Acq: 14 Feb 2019 17:22

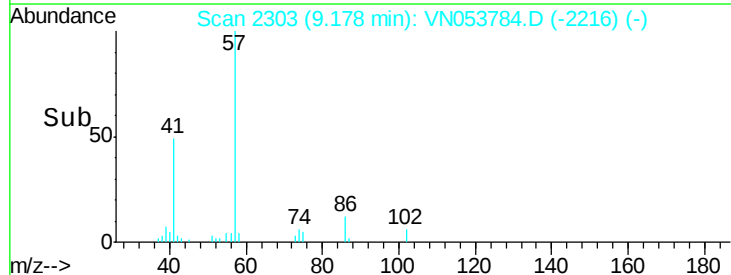
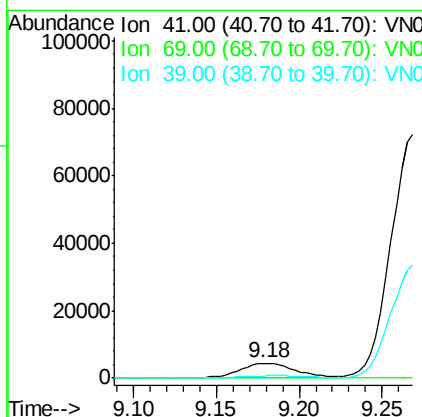
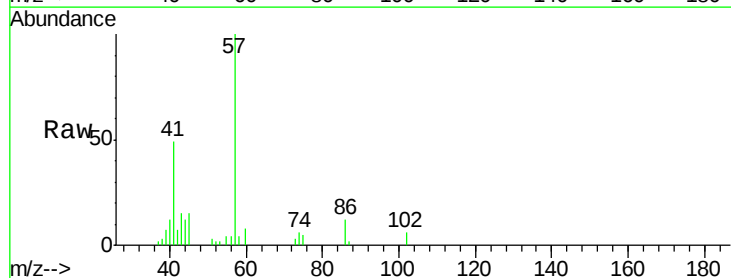
Instrument :
 MSVOA_N
 ClientSampled :

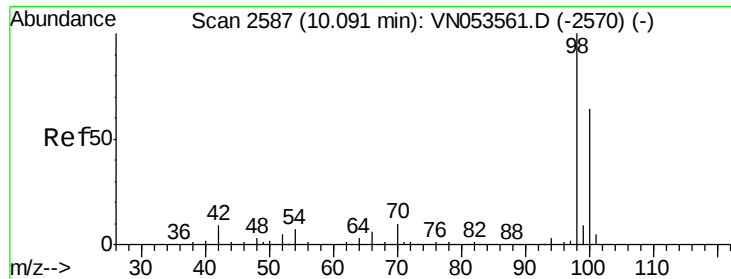
Tot Ion: 63 Resp: 1889
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.821 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN053784.D
 Acq: 14 Feb 2019 17:22

Tgt Ion: 41 Resp: 10394
 Ion Ratio Lower Upper
 41 100
 69 0.0 73.8 110.6#
 39 0.0 40.0 60.0#





#50

Toluene-d8

Concen: 51.155 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053784.D

Acq: 14 Feb 2019 17:22

Instrument :

MSVOA_N

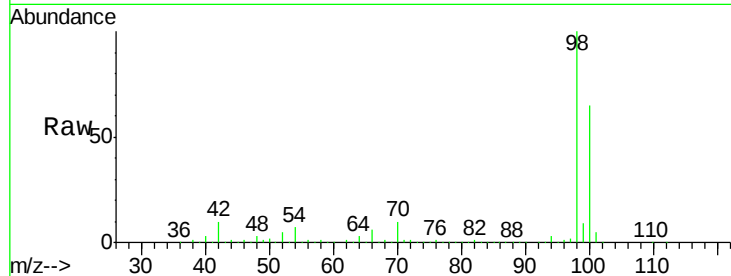
ClientSampleId :

Tot Ion: 98 Resp: 1492686

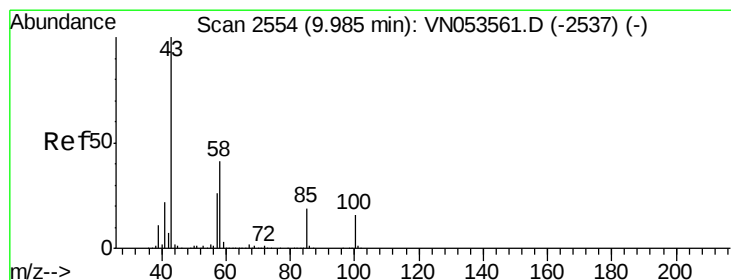
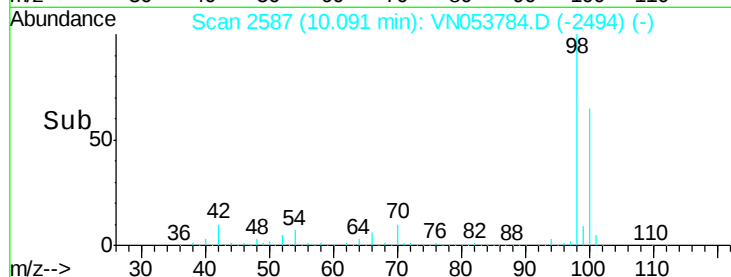
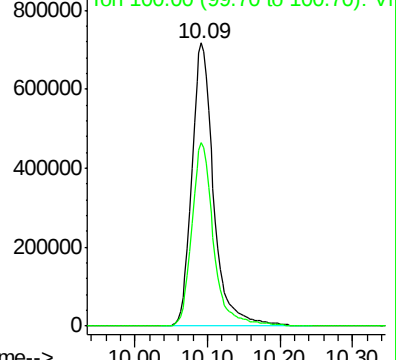
Ion Ratio Lower Upper

98 100

100 64.8 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN053561.D (-2570) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.502 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053784.D

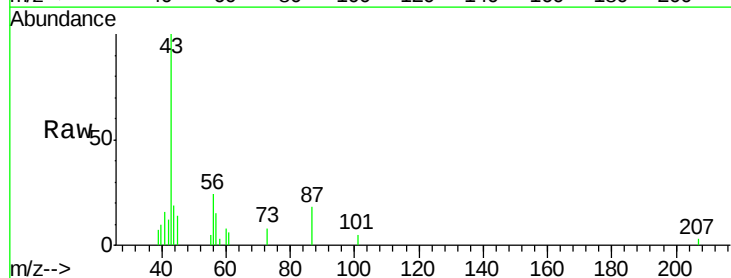
Acq: 14 Feb 2019 17:22

Tgt Ion: 43 Resp: 8826

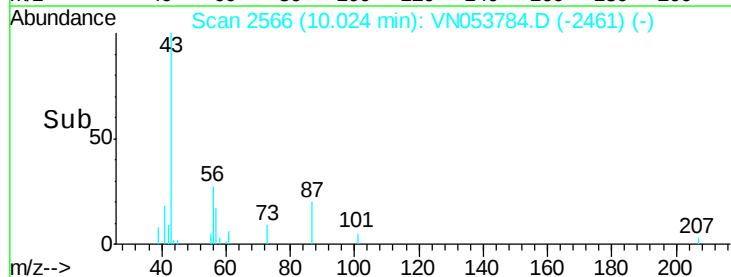
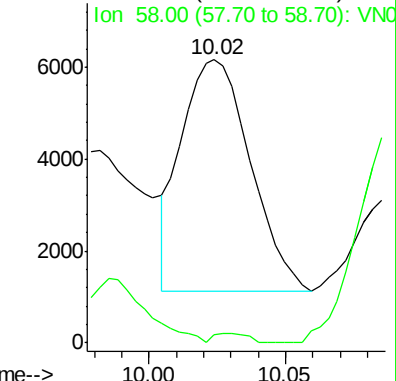
Ion Ratio Lower Upper

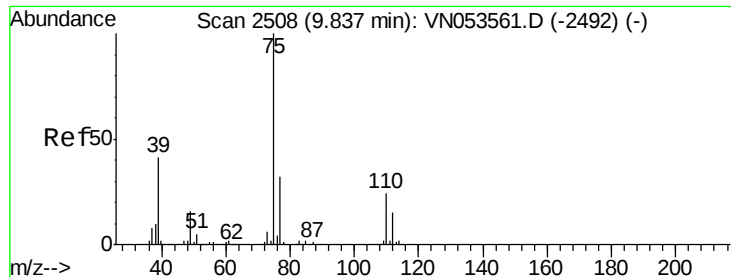
43 100

58 0.0 32.8 49.2#



Abundance Ion 43.00 (42.70 to 43.70): VN053561.D (-2537) (-)



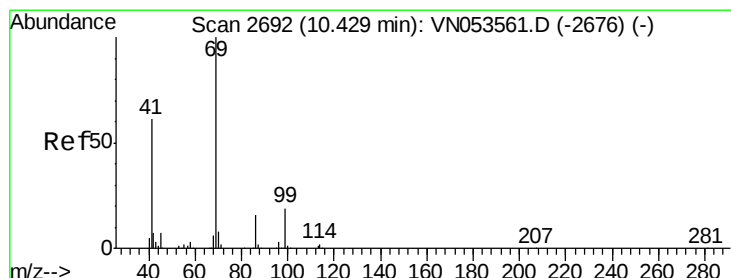
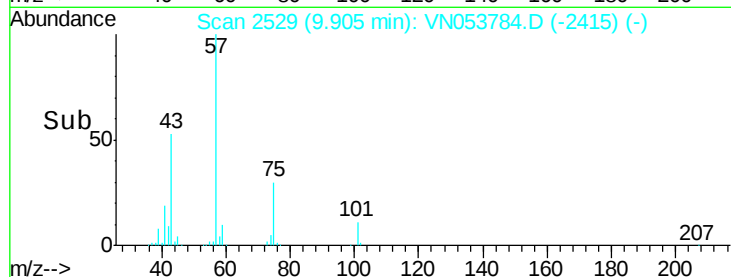
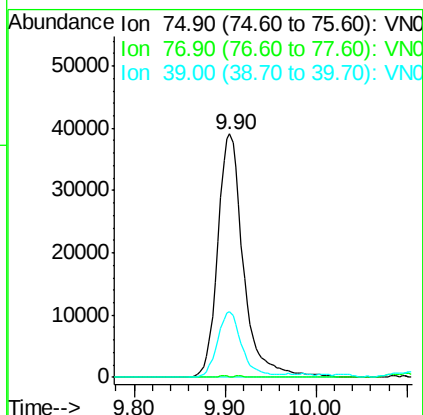
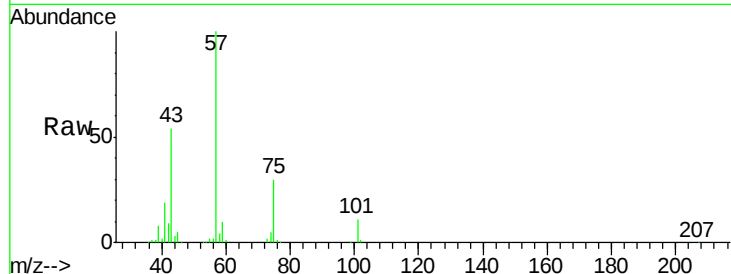


#54

cis-1,3-Dichloropropene
 Concen: 5.903 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN053784.D
 Acq: 14 Feb 2019 17:22

Instrument :
 MSVOA_N
 ClientSampled :

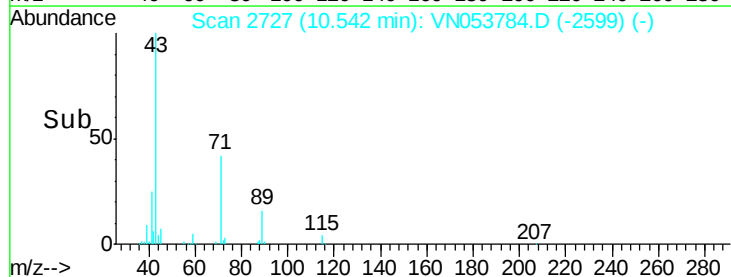
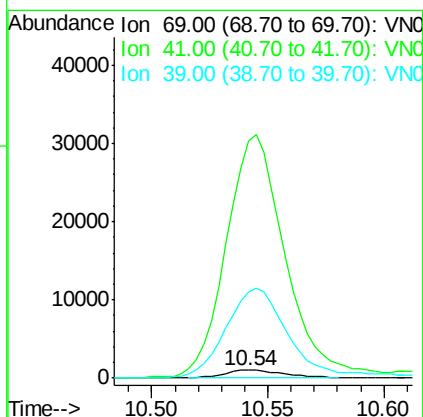
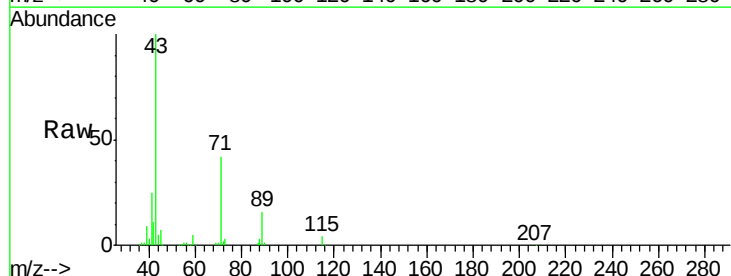
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.4	25.8	38.6#
39	26.9	33.4	50.0#

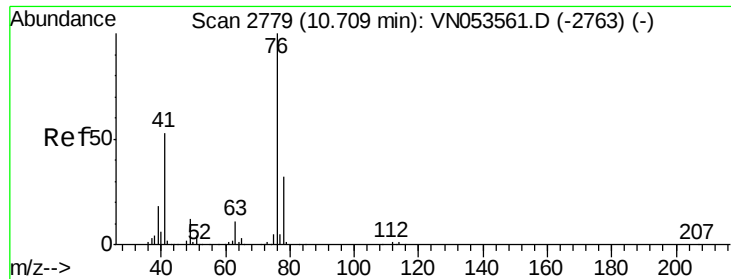


#56

Ethyl methacrylate
 Concen: 0.209 ug/l
 RT: 10.54 min Scan# 2727
 Delta R.T. 0.11 min
 Lab File: VN053784.D
 Acq: 14 Feb 2019 17:22

Tgt Ion	Ratio	Lower	Upper
69	100		
41	3064.4	49.4	74.0#
39	1205.6	23.3	34.9#





#57

1,3-Dichloropropane

Concen: 1.062 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN053784.D

Acq: 14 Feb 2019 17:22

Instrument :

MSVOA_N

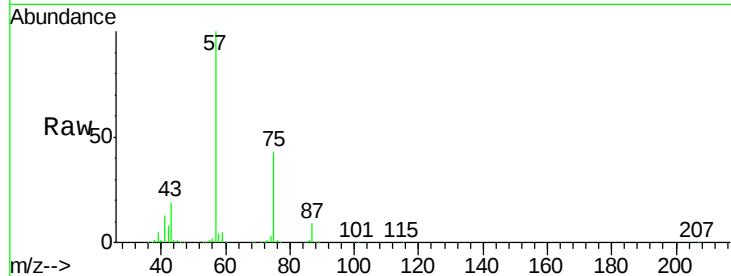
ClientSampleId :

Tot Ion: 76 Resp: 13272

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.76

8000

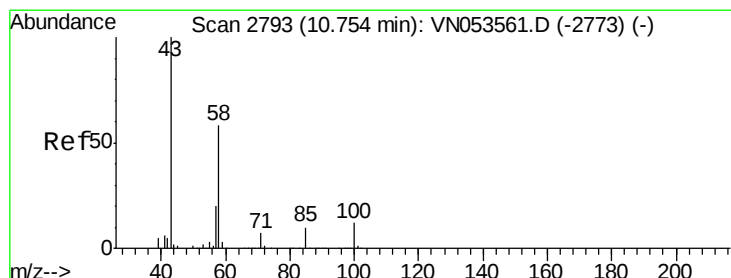
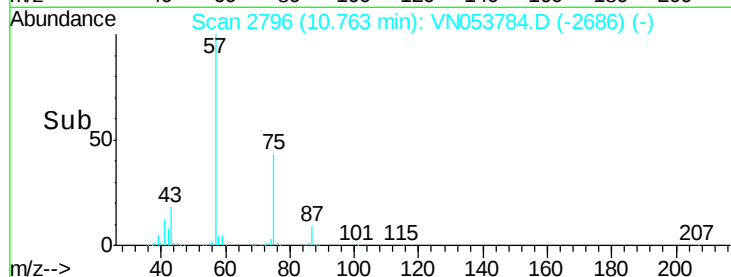
6000

4000

2000

0

Time--> 10.70 10.75 10.80



#59

2-Hexanone

Concen: 46.325 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN053784.D

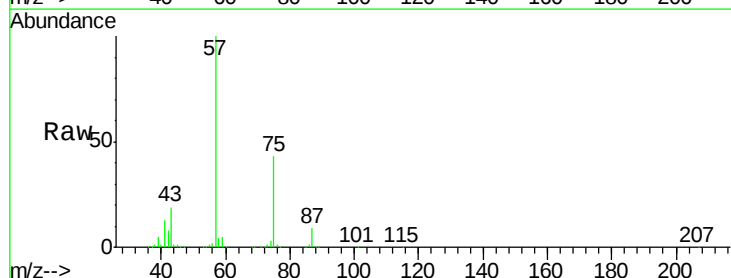
Acq: 14 Feb 2019 17:22

Tgt Ion: 43 Resp: 184797

Ion Ratio Lower Upper

43 100

58 20.7 28.6 85.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.76

120000

100000

80000

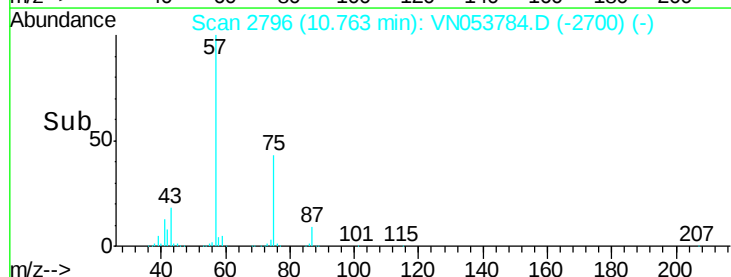
60000

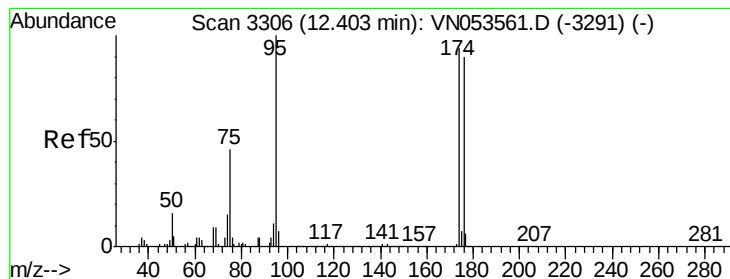
40000

20000

0

Time--> 10.70 10.75 10.80





#62

4-Bromofluorobenzene

Concen: 50.820 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN053784.D

Acq: 14 Feb 2019 17:22

Instrument :

MSVOA_N

ClientSampleId :

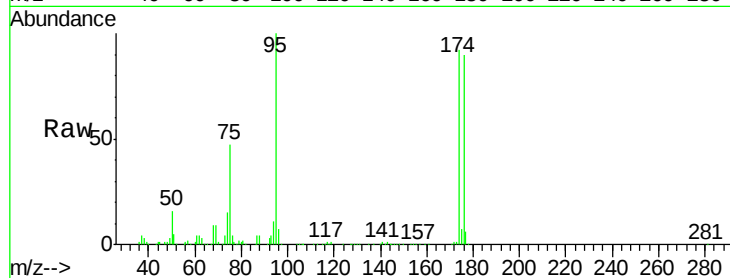
Tot Ion: 95 Resp: 494575

Ion Ratio Lower Upper

95 100

174 93.6 0.0 183.2

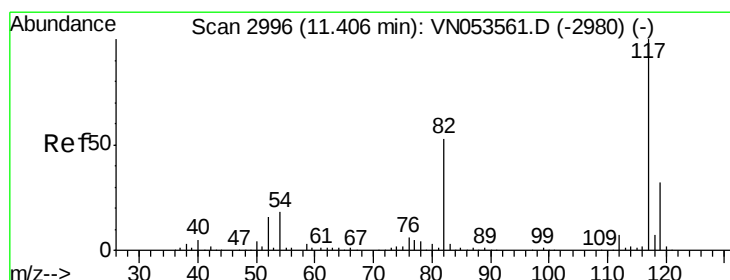
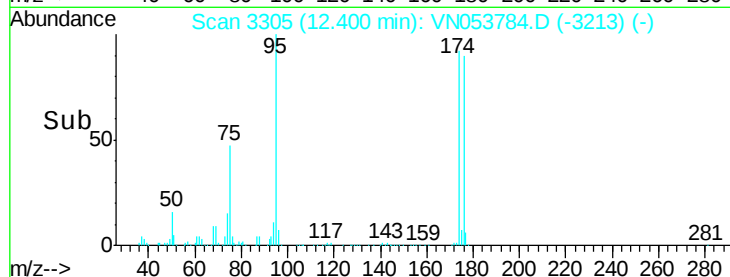
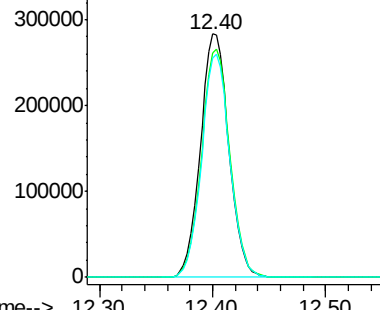
176 90.7 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN053561.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN053561.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN053561.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN053784.D

Acq: 14 Feb 2019 17:22

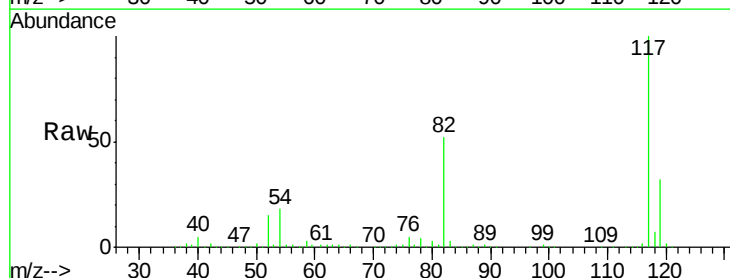
Tgt Ion: 117 Resp: 1151025

Ion Ratio Lower Upper

117 100

82 52.2 42.9 64.3

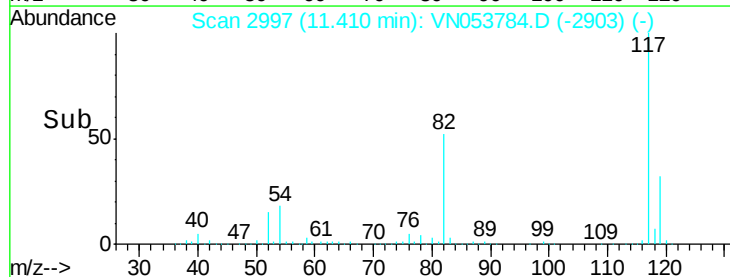
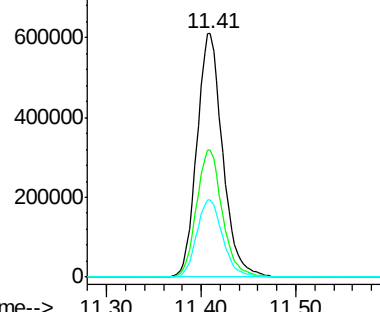
119 31.8 26.0 39.0

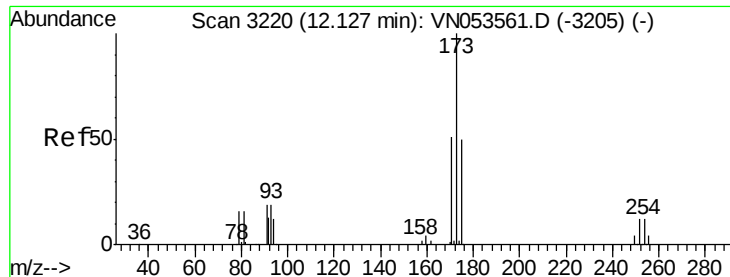


Abundance Ion 116.90 (116.60 to 117.60): VN053561.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN053561.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN053561.D (-2980) (-)





#71

Bromoform

Concen: 0.620 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN053784.D

Acq: 14 Feb 2019 17:22

Instrument :

MSVOA_N

ClientSampleId :

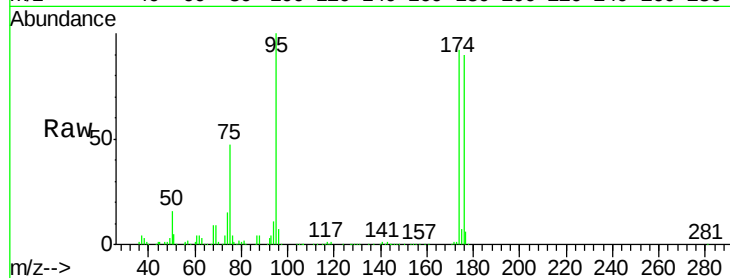
Tot Ion:173 Resp: 3632

Ion Ratio Lower Upper

173 100

175 785.4 24.6 74.0#

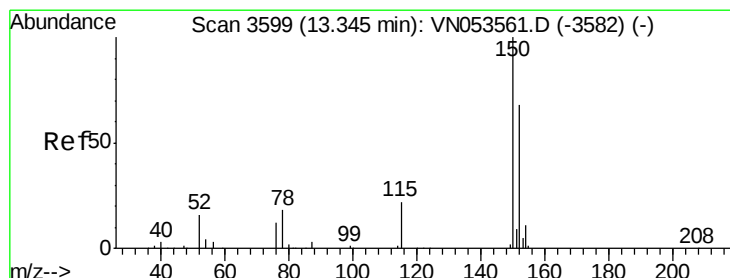
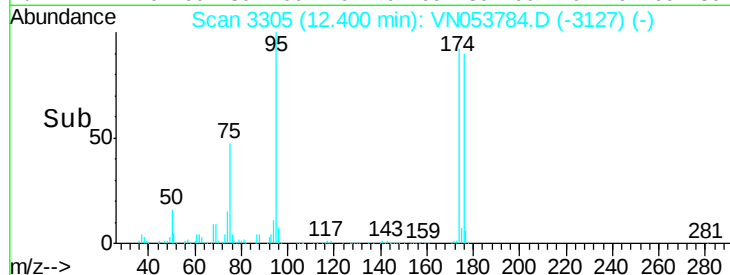
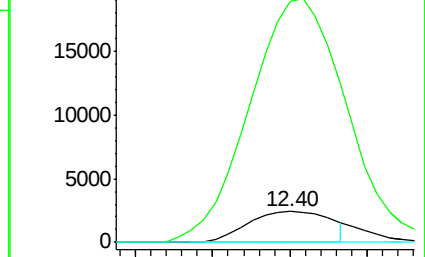
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053784.D

Acq: 14 Feb 2019 17:22

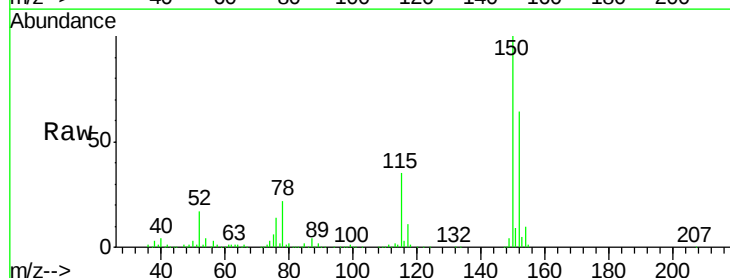
Tgt Ion:152 Resp: 457401

Ion Ratio Lower Upper

152 100

115 55.0 27.8 83.4

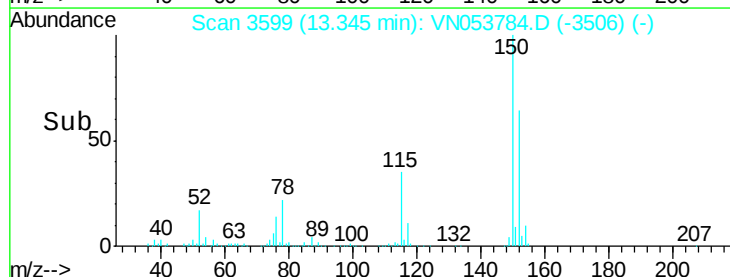
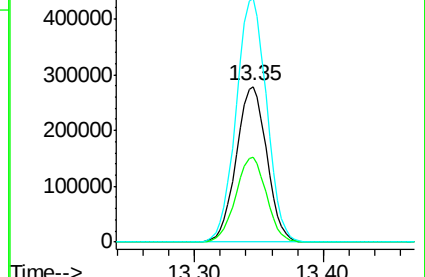
150 157.1 0.0 349.0

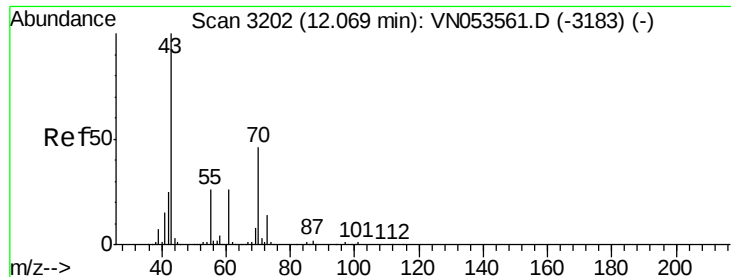


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.582 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053784.D

Acq: 14 Feb 2019 17:22

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 19966

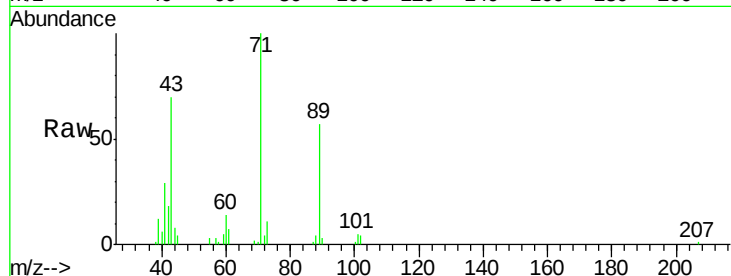
Ion Ratio Lower Upper

43 100

70 1.7 35.4 53.2#

55 4.7 20.9 31.3#

61 11.5 20.5 30.7#

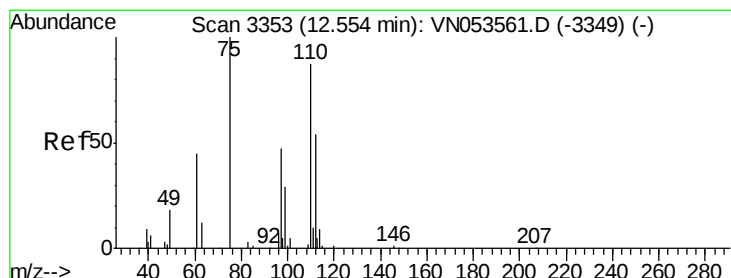
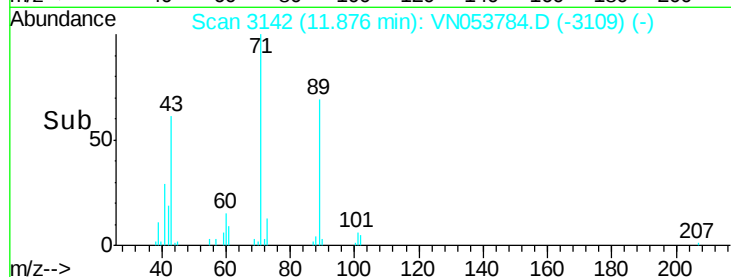
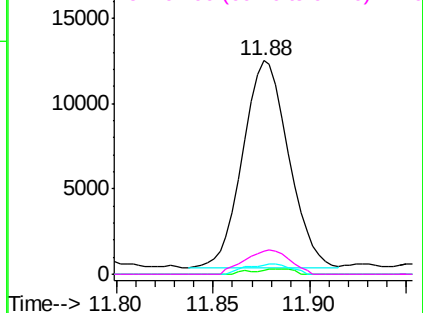


Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 70.00 (69.70 to 70.70): VNC

Ion 55.00 (54.70 to 55.70): VNC

Ion 61.00 (60.70 to 61.70): VNC



#76

1,2,3-Trichloropropane

Concen: 38.839 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053784.D

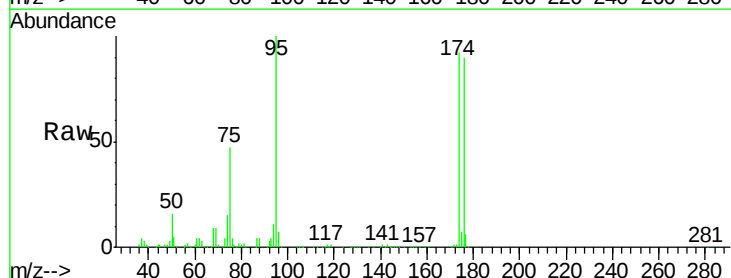
Acq: 14 Feb 2019 17:22

Tgt Ion: 75 Resp: 228180

Ion Ratio Lower Upper

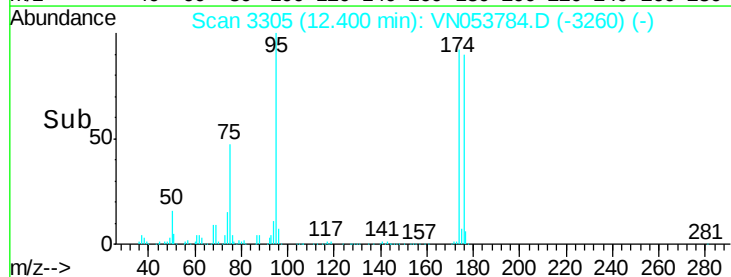
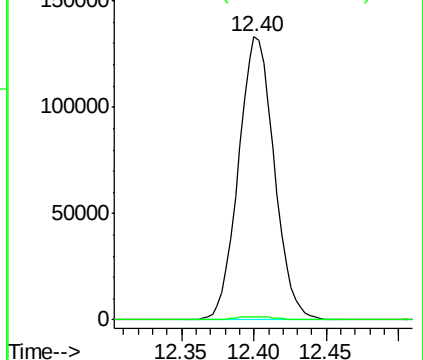
75 100

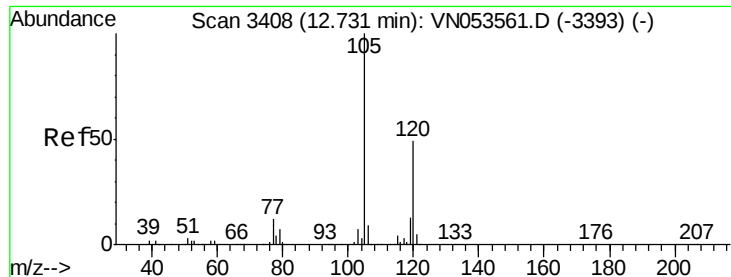
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC





#80

1,3,5-Trimethylbenzene

Concen: 0.447 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053784.D

Acq: 14 Feb 2019 17:22

Instrument :

MSVOA_N

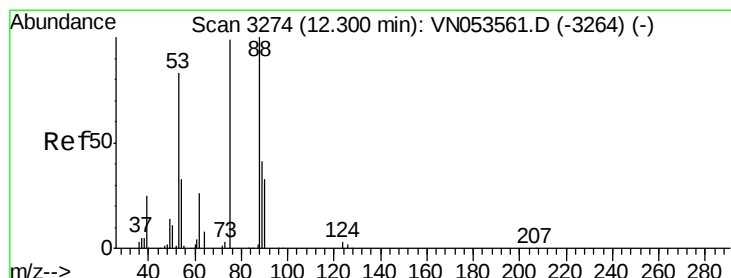
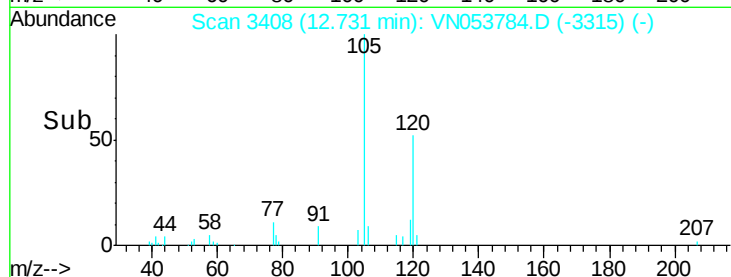
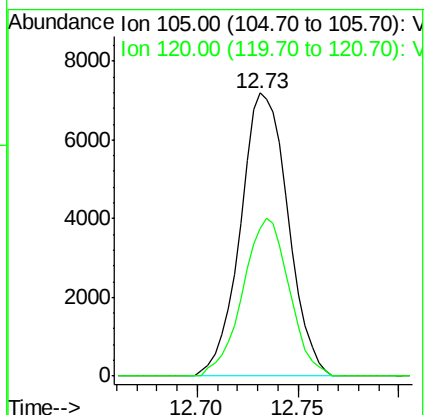
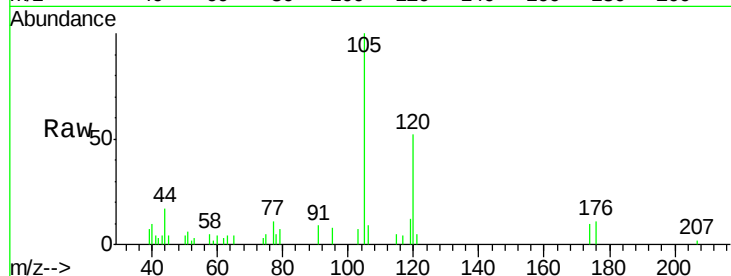
ClientSampleId :

Tot Ion:105 Resp: 11906

Ion Ratio Lower Upper

105 100

120 54.2 24.9 74.6



#81

trans-1,4-Dichloro-2-butene

Concen: 109.212 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053784.D

Acq: 14 Feb 2019 17:22

Tgt Ion: 75 Resp: 228180

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

89 0.0 35.6 53.4#

