

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021519\
 Data File : VN053811.D
 Acq On : 15 Feb 2019 20:12
 Operator : JC/SP
 Sample : PB117124ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 15 23:28:17 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	662149	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1118451	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1026273	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	384811	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	355754	53.56	ug/l	0.00
Spiked Amount			Recovery	=	107.12%	
35) Dibromofluoromethane	7.59	113	352388	49.86	ug/l	0.00
Spiked Amount			Recovery	=	99.72%	
50) Toluene-d8	10.09	98	1343521	50.63	ug/l	0.00
Spiked Amount			Recovery	=	101.26%	
62) 4-Bromofluorobenzene	12.40	95	435515	49.21	ug/l	0.00
Spiked Amount			Recovery	=	98.42%	

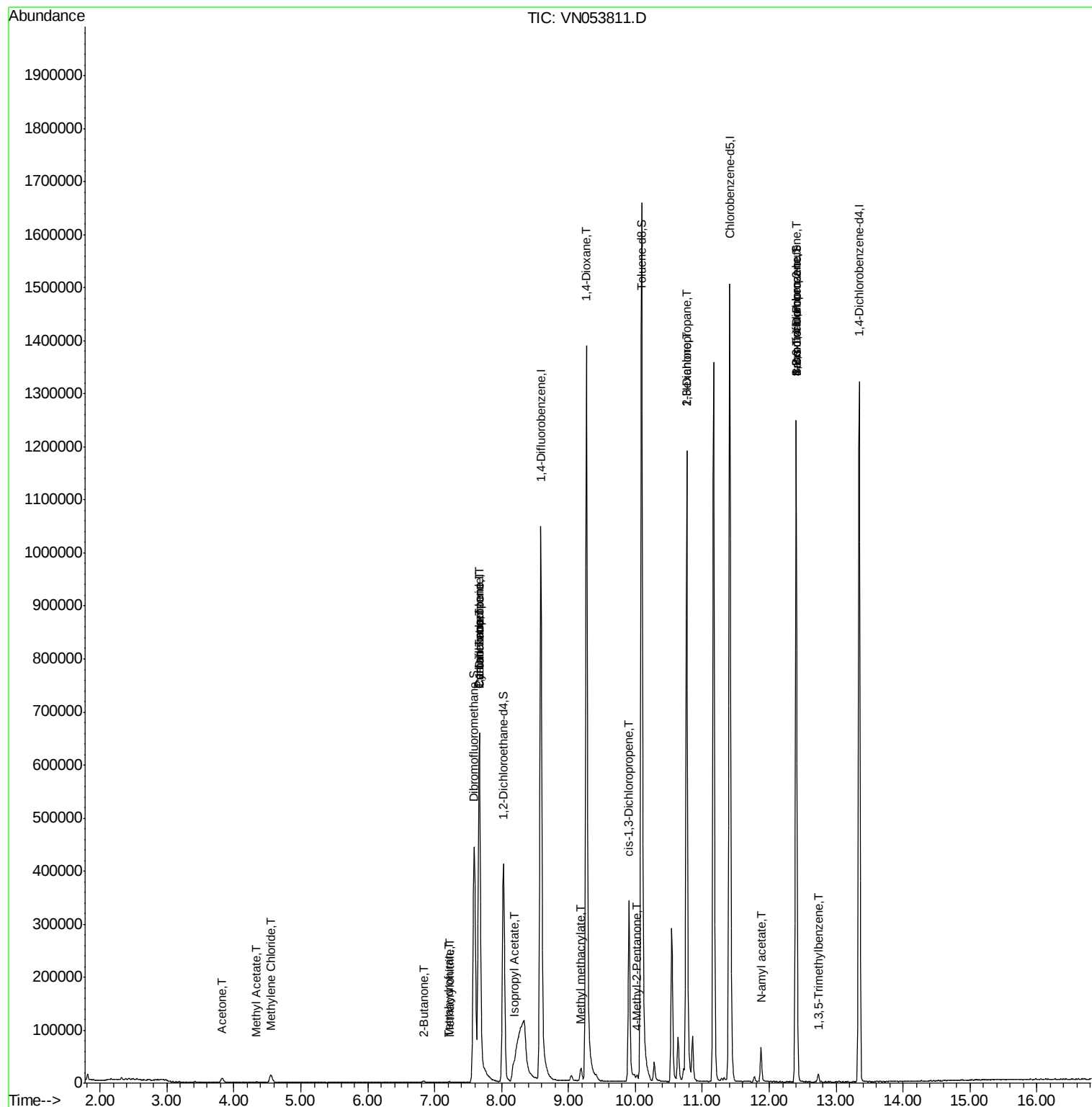
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	14825	8.701	ug/l	100
18) Methyl Acetate	4.33	43	1161	0.230	ug/l #	88
20) Methylene Chloride	4.55	84	11304	1.581	ug/l	93
25) 2-Butanone	6.84	43	3445	1.418	ug/l #	74
29) Tetrahydrofuran	7.21	42	702	0.450	ug/l #	33
31) Cyclohexane	7.67	56	9011	0.635	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	39510	3.919	ug/l #	49
38) Carbon Tetrachloride	7.67	117	52071	5.127	ug/l #	17
41) Methacrylonitrile	7.22	41	663	0.211	ug/l #	31
43) Isopropyl Acetate	8.18	43	36030	3.313	ug/l #	51
48) Methyl methacrylate	9.18	41	9498	1.830	ug/l #	12
49) 1,4-Dioxane	9.26	88	92	40.273	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	8045	1.505	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	71130	6.014	ug/l #	63
57) 1,3-Dichloropropane	10.77	76	13587	1.196	ug/l #	43
59) 2-Hexanone	10.76	43	176375	48.619	ug/l #	49
71) Bromoform	12.41	173	3009	0.577	ug/l #	1
74) N-amyl acetate	11.88	43	20670	3.178	ug/l #	50
76) 1,2,3-Trichloropropane	12.40	75	197344	39.927	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7840	0.349	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	197344	112.271	ug/l #	15

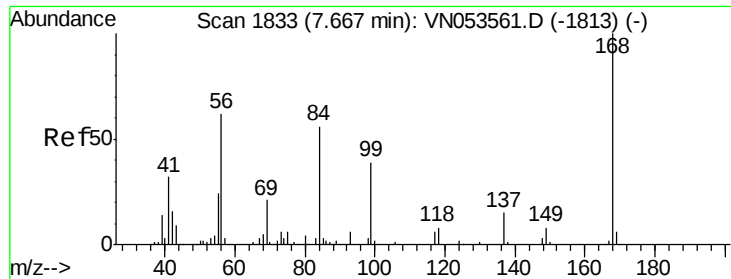
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN021519\
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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: VN053811.D

Acq: 15 Feb 2019 20:12

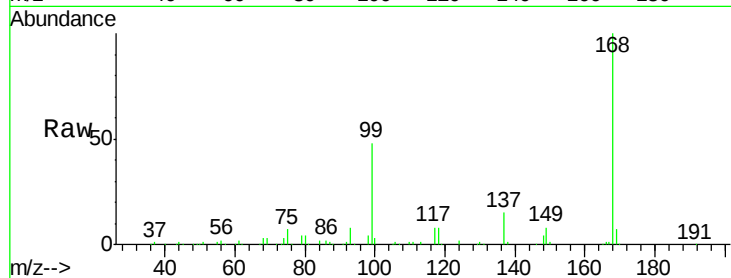
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 662149

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): VN

7.67

250000

200000

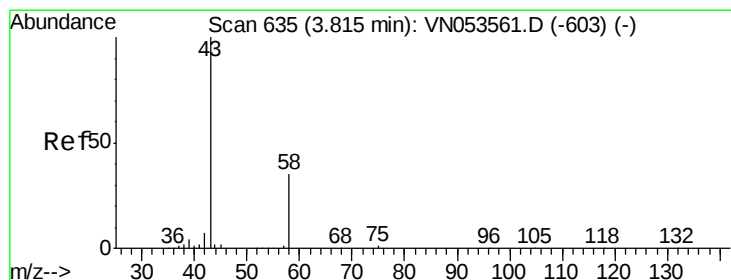
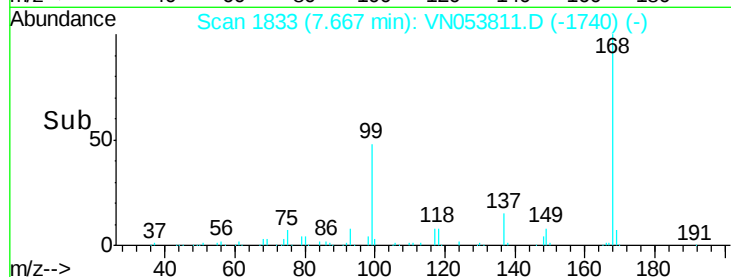
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#16

Acetone

Concen: 8.701 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN053811.D

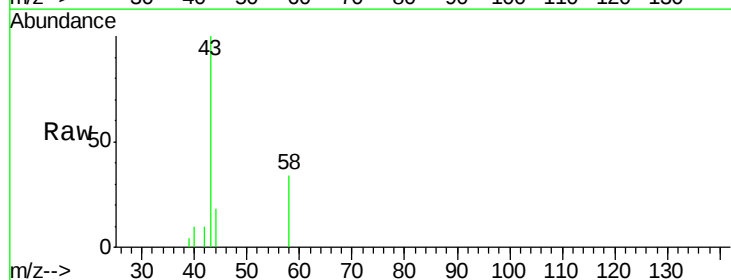
Acq: 15 Feb 2019 20:12

Tgt Ion: 43 Resp: 14825

Ion Ratio Lower Upper

43 100

58 34.0 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.82

6000

5000

4000

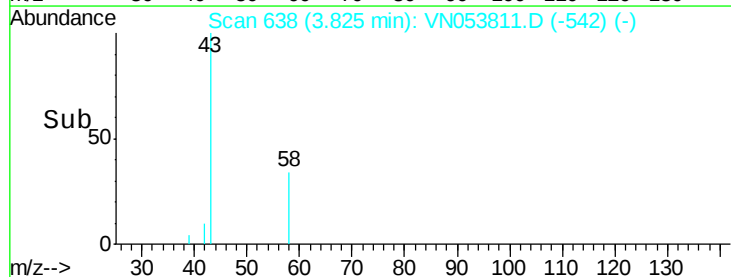
3000

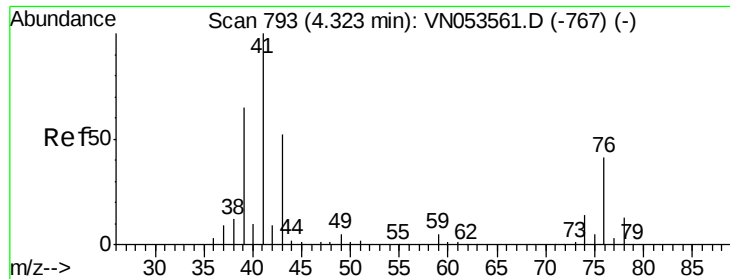
2000

1000

0

Time--> 3.70 3.75 3.80 3.85 3.90

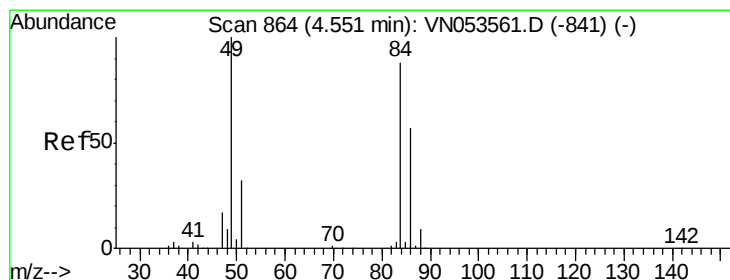
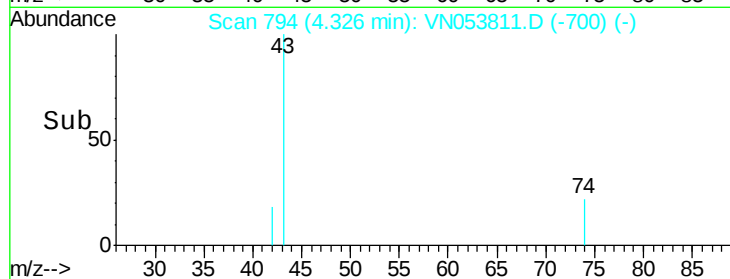
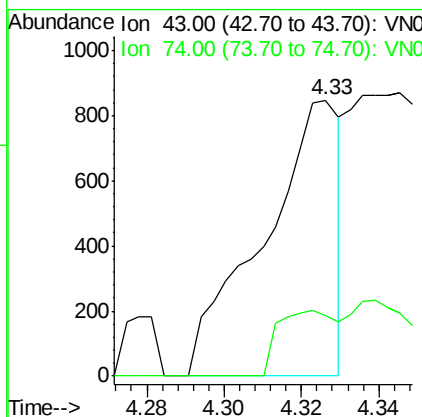
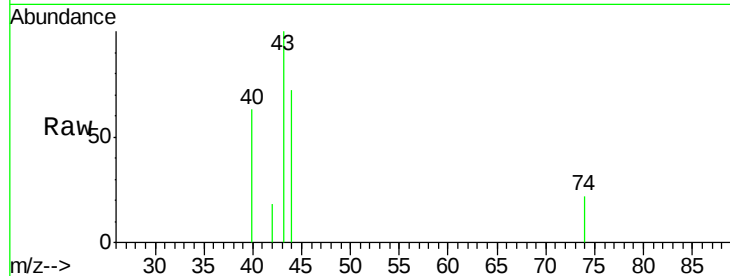




#18
Methyl Acetate
Concen: 0.230 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN053811.D
Acq: 15 Feb 2019 20:12

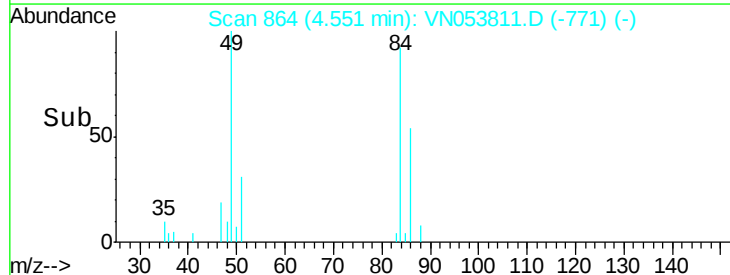
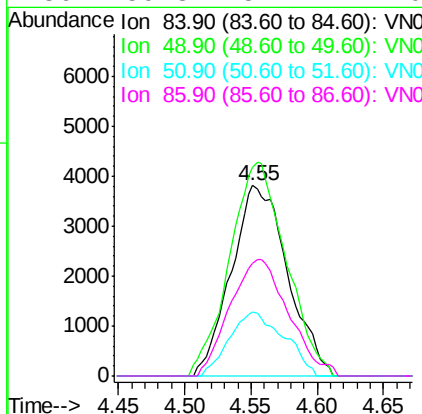
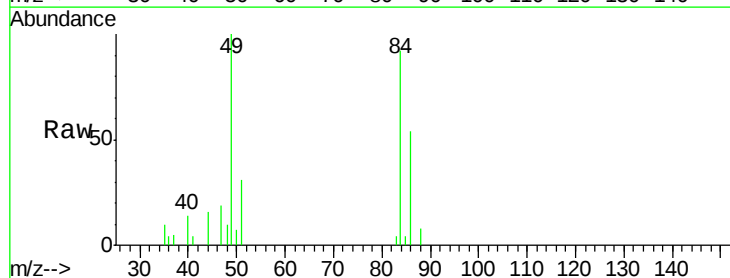
Instrument :
MSVOA_N
ClientSampled :

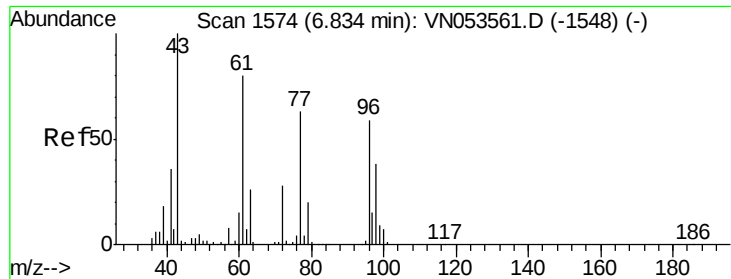
Tot Ion: 43 Resp: 1161
Ion Ratio Lower Upper
43 100
74 18.2 19.4 29.2#



#20
Methylene Chloride
Concen: 1.581 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN053811.D
Acq: 15 Feb 2019 20:12

Tgt Ion: 84 Resp: 11304
Ion Ratio Lower Upper
84 100
49 109.2 94.3 141.5
51 33.6 29.4 44.2
86 59.3 51.4 77.0

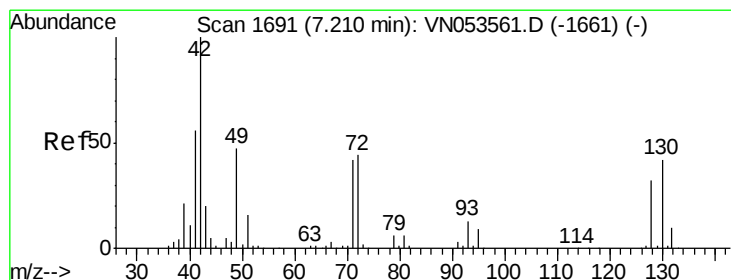
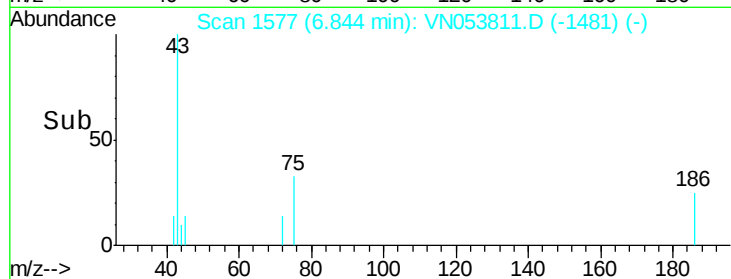
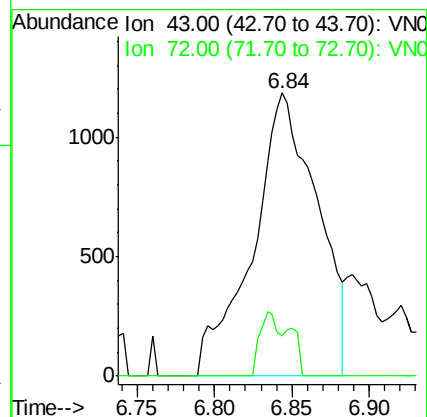
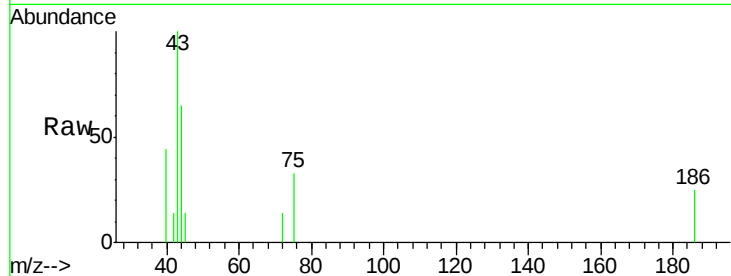




#25
2-Butanone
Concen: 1.418 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN053811.D
Acq: 15 Feb 2019 20:12

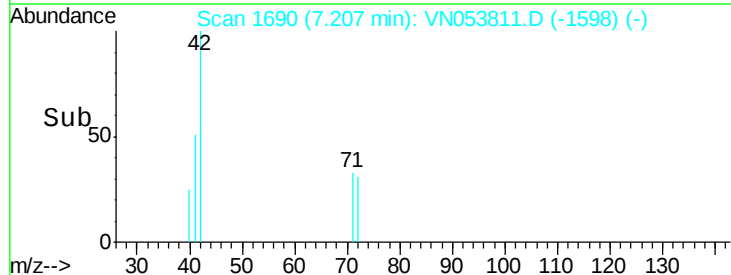
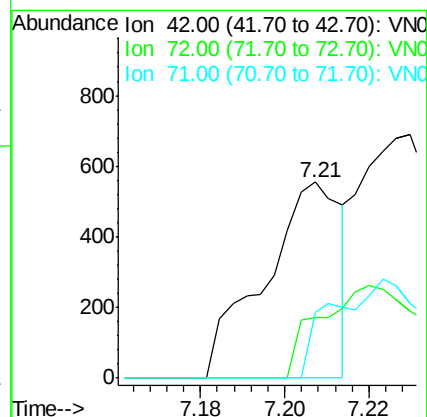
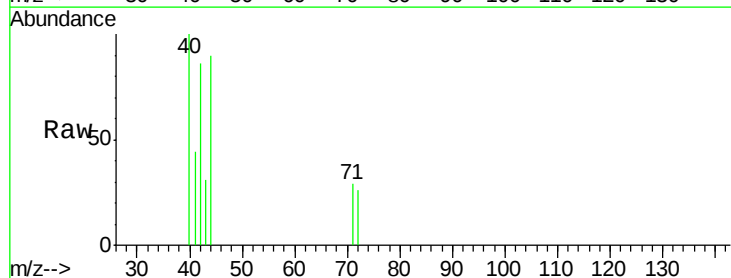
Instrument :
MSVOA_N
ClientSampled :

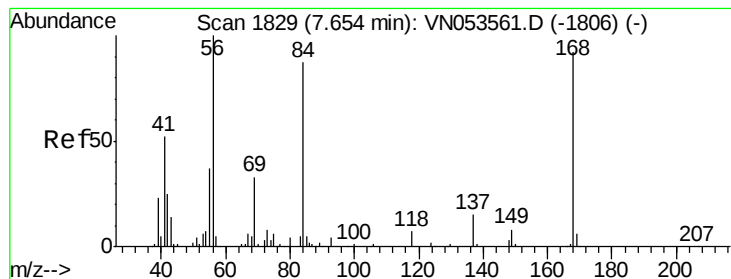
Tot Ion: 43 Resp: 3445
Ion Ratio Lower Upper
43 100
72 14.0 22.0 33.0#



#29
Tetrahydrofuran
Concen: 0.450 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VN053811.D
Acq: 15 Feb 2019 20:12

Tgt Ion: 42 Resp: 702
Ion Ratio Lower Upper
42 100
72 0.0 35.2 52.8#
71 0.0 33.0 49.4#





#31

Cyclohexane

Concen: 0.635 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053811.D

Acq: 15 Feb 2019 20:12

Instrument :
MSVOA_N
ClientSampled :

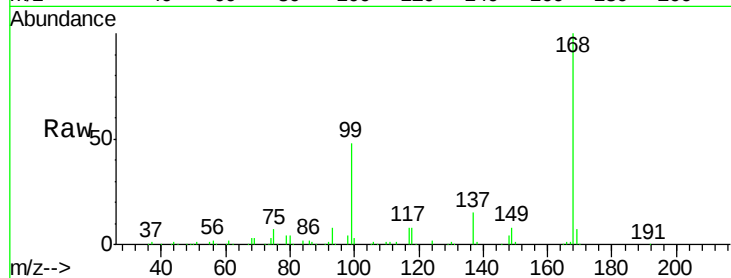
Tot Ion: 56 Resp: 9011

Ion Ratio Lower Upper

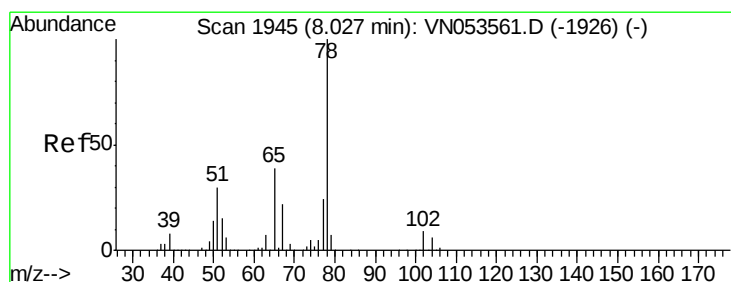
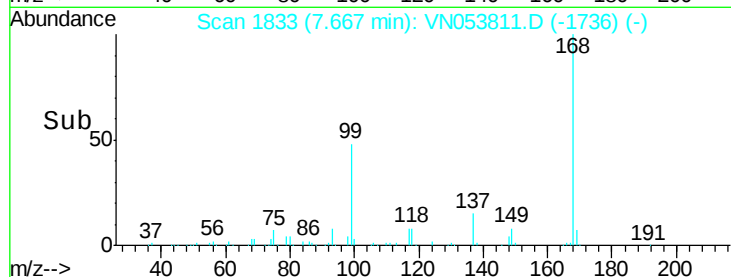
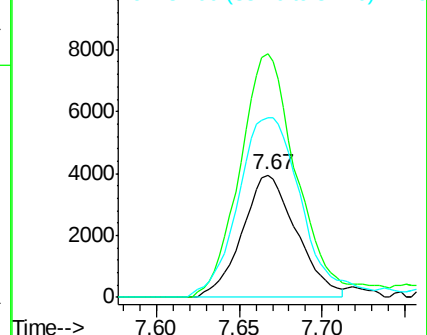
56 100

69 198.9 26.4 39.6#

84 142.6 67.9 101.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 53.556 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053811.D

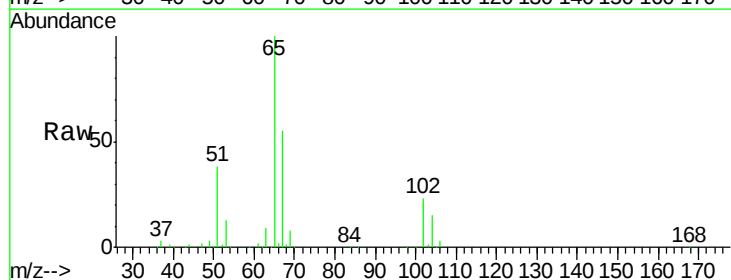
Acq: 15 Feb 2019 20:12

Tgt Ion: 65 Resp: 355754

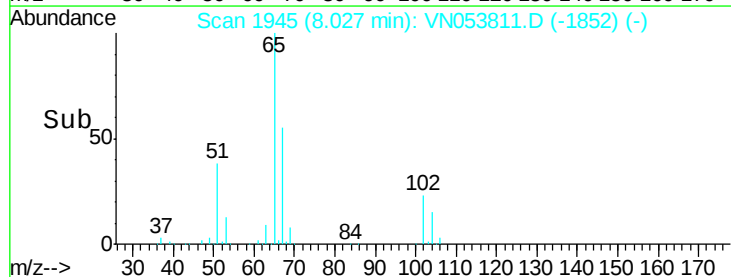
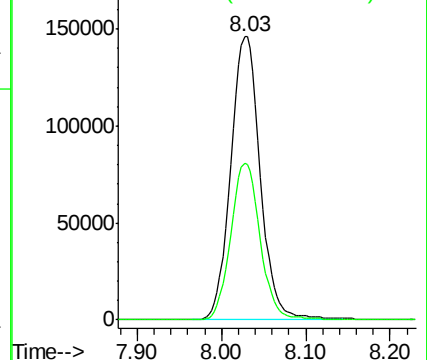
Ion Ratio Lower Upper

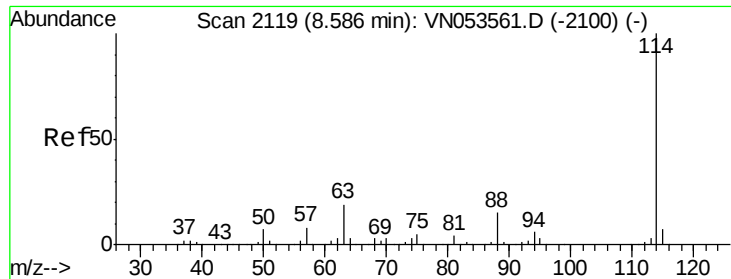
65 100

67 55.2 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053811.D

Acq: 15 Feb 2019 20:12

Instrument :

MSVOA_N

ClientSampled :

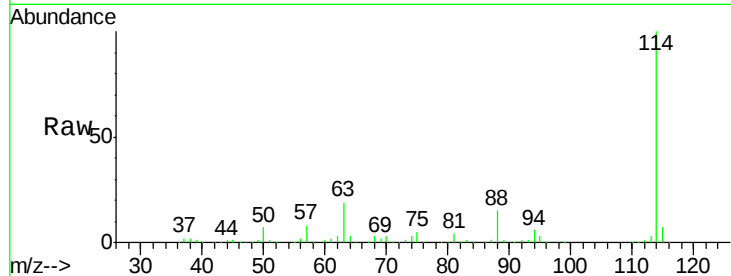
Tot Ion:114 Resp: 1118451

Ion Ratio Lower Upper

114 100

63 18.7 0.0 38.6

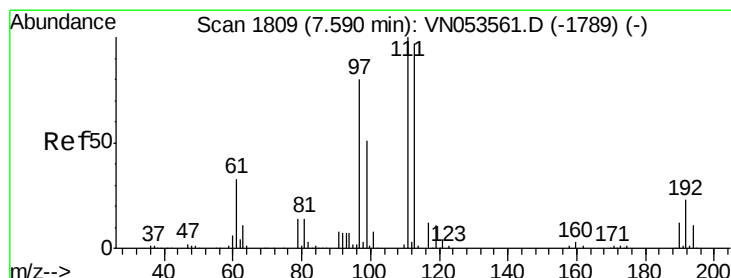
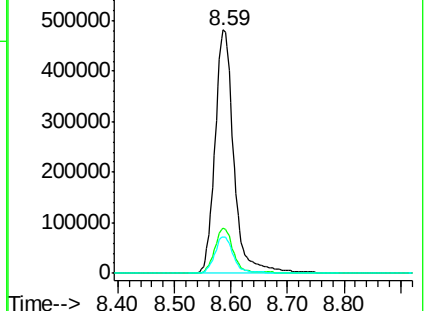
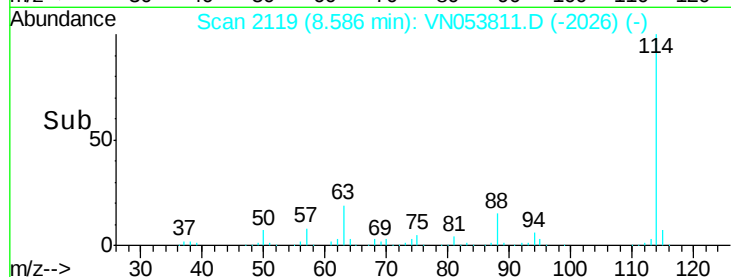
88 15.1 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 49.863 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN053811.D

Acq: 15 Feb 2019 20:12

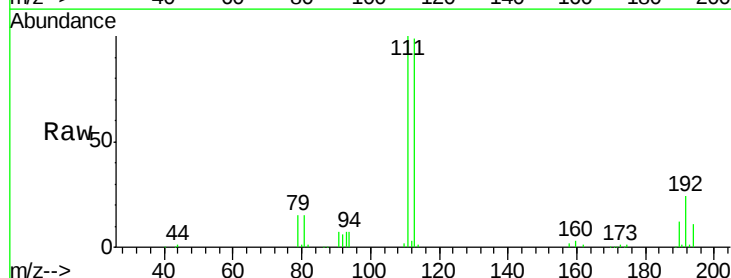
Tgt Ion:113 Resp: 352388

Ion Ratio Lower Upper

113 100

111 103.8 81.1 121.7

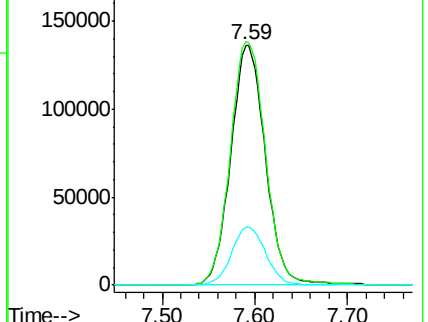
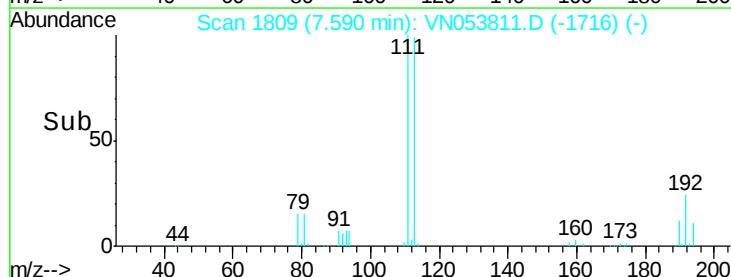
192 24.1 18.2 27.2

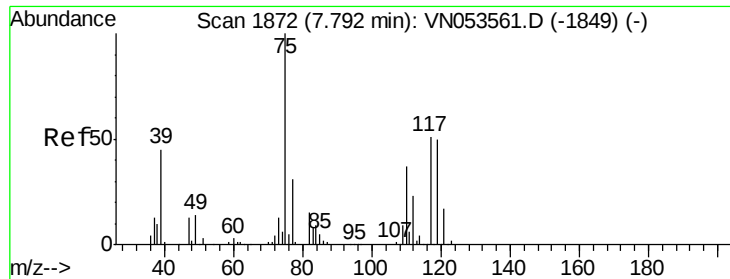


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.919 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN053811.D

Acq: 15 Feb 2019 20:12

Instrument :
MSVOA_N
ClientSampled :

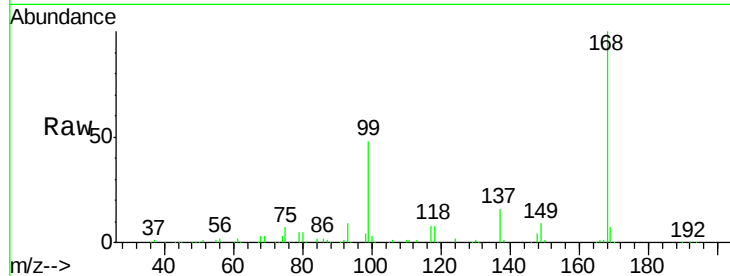
Tot Ion: 75 Resp: 39510

Ion Ratio Lower Upper

75 100

110 9.2 18.1 54.3#

77 0.0 25.1 37.7#

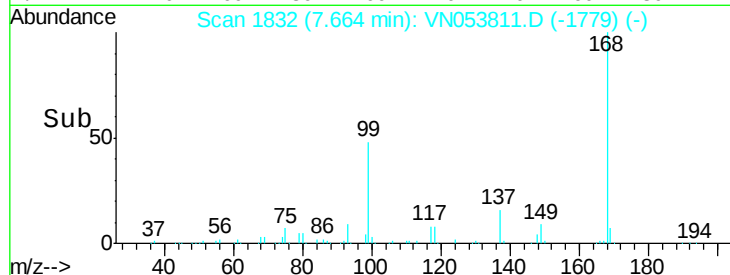


Abundance Ion 74.90 (74.60 to 75.60): VN053811.D (-1779) (-)

Ion 109.90 (109.60 to 110.60): VN053811.D (-1779) (-)

Ion 76.90 (76.60 to 77.60): VN053811.D (-1779) (-)

Time-->

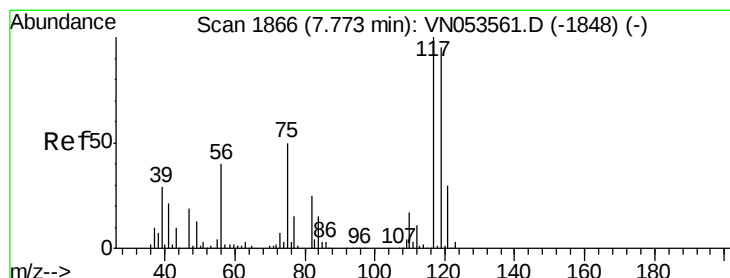


Abundance Ion 74.90 (74.60 to 75.60): VN053811.D (-1779) (-)

Ion 109.90 (109.60 to 110.60): VN053811.D (-1779) (-)

Ion 76.90 (76.60 to 77.60): VN053811.D (-1779) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 5.127 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.10 min

Lab File: VN053811.D

Acq: 15 Feb 2019 20:12

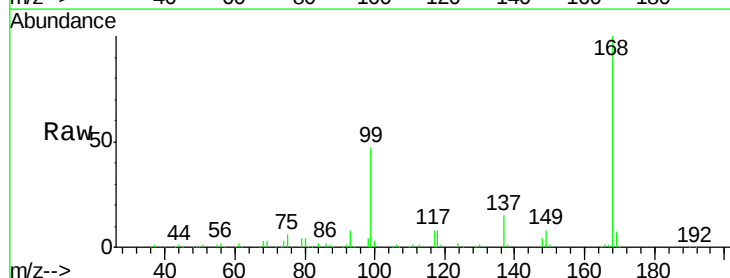
Tgt Ion: 117 Resp: 52071

Ion Ratio Lower Upper

117 100

119 6.1 77.2 115.8#

121 0.0 24.6 37.0#

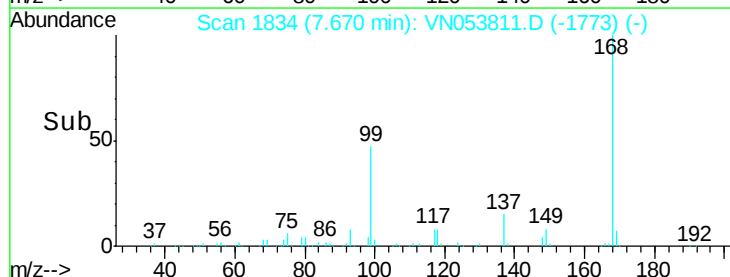


Abundance Ion 116.80 (116.50 to 117.50): VN053811.D (-1773) (-)

Ion 118.80 (118.50 to 119.50): VN053811.D (-1773) (-)

Ion 120.80 (120.50 to 121.50): VN053811.D (-1773) (-)

Time-->

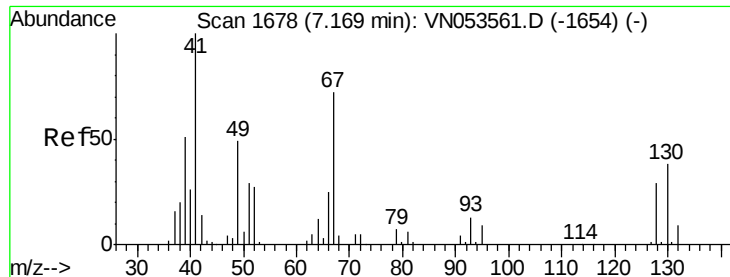


Abundance Ion 116.80 (116.50 to 117.50): VN053811.D (-1773) (-)

Ion 118.80 (118.50 to 119.50): VN053811.D (-1773) (-)

Ion 120.80 (120.50 to 121.50): VN053811.D (-1773) (-)

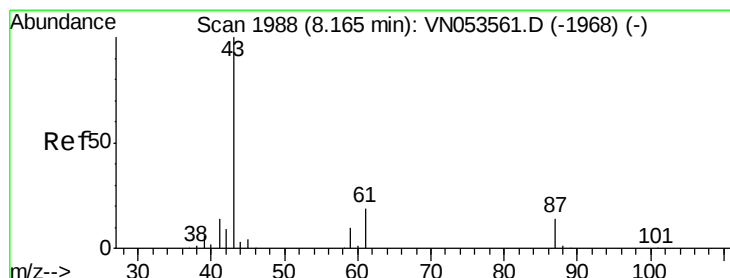
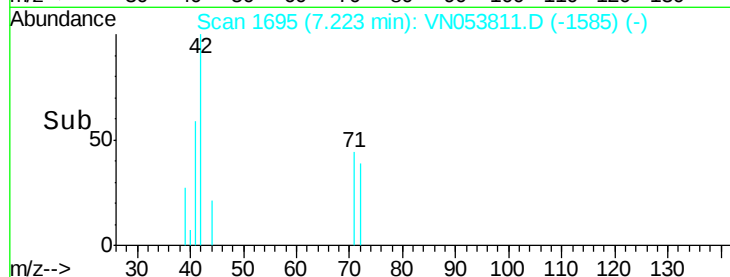
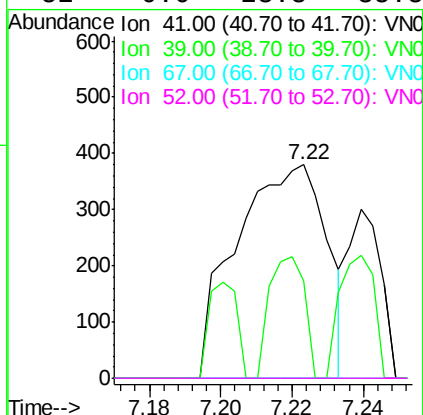
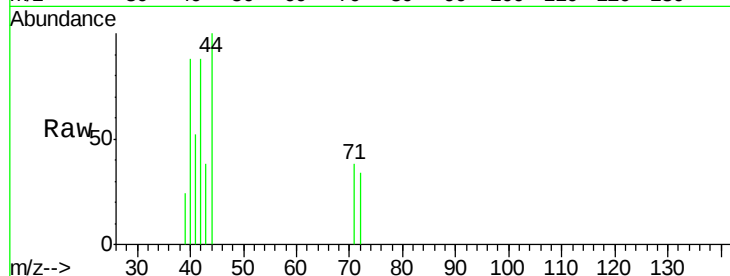
Time-->



#41
Methacrylonitrile
Concen: 0.211 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.05 min
Lab File: VN053811.D
Acq: 15 Feb 2019 20:12

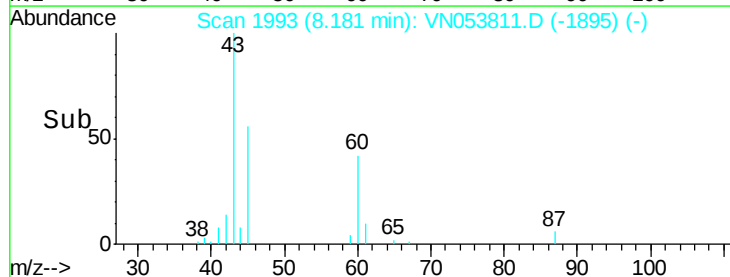
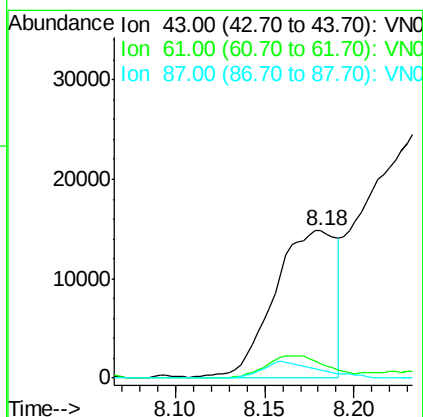
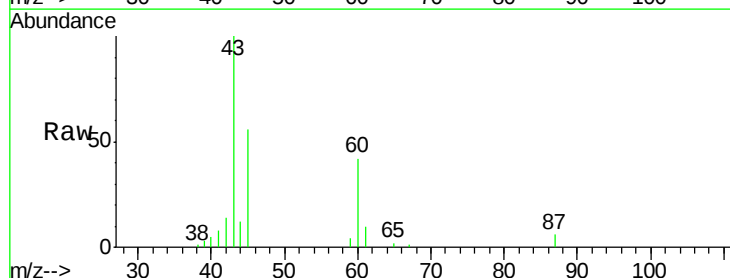
Instrument :
MSVOA_N
ClientSampled :

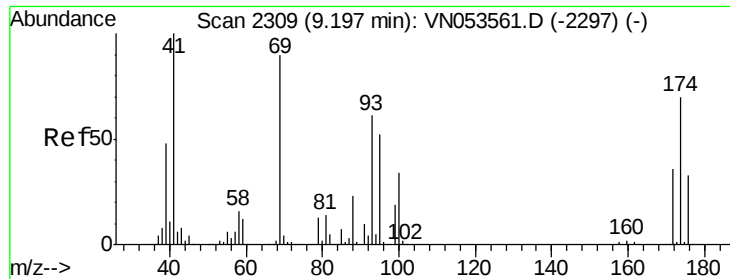
Tot Ion: 41 Resp: 663
Ion Ratio Lower Upper
41 100
39 22.2 46.8 70.2#
67 0.0 63.0 94.6#
52 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 3.313 ug/l
RT: 8.18 min Scan# 1993
Delta R.T. 0.02 min
Lab File: VN053811.D
Acq: 15 Feb 2019 20:12

Tgt Ion: 43 Resp: 36030
Ion Ratio Lower Upper
43 100
61 0.0 23.9 35.9#
87 0.0 11.0 16.6#

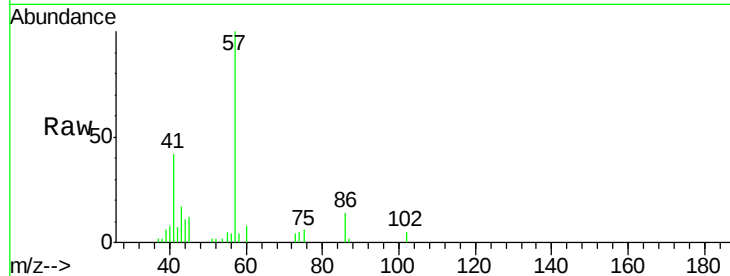




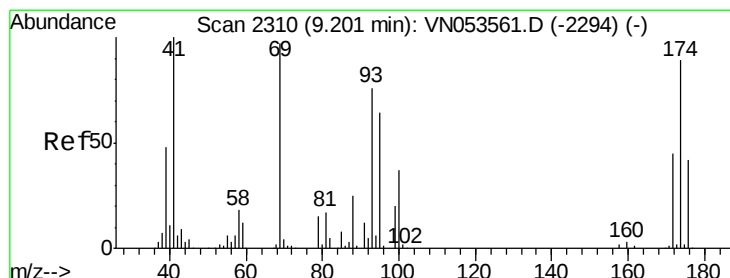
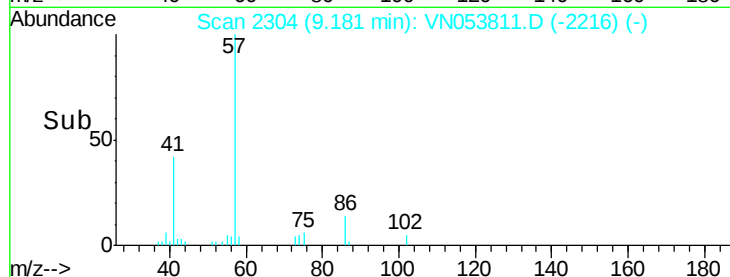
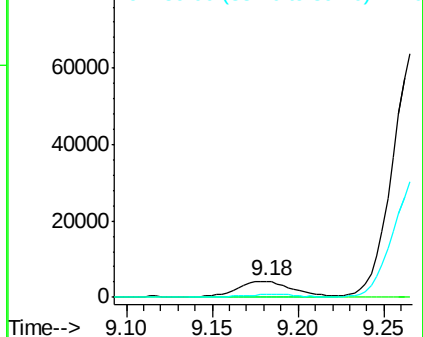
#48
Methvl methacrylate
Concen: 1.830 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN053811.D
Acq: 15 Feb 2019 20:12

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 9498
Ion Ratio Lower Upper
41 100
69 0.0 73.8 110.6#
39 0.0 40.0 60.0#

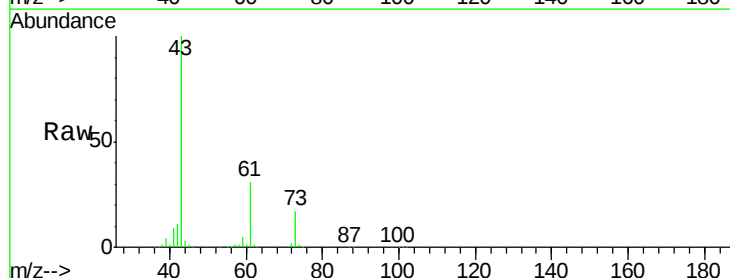


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

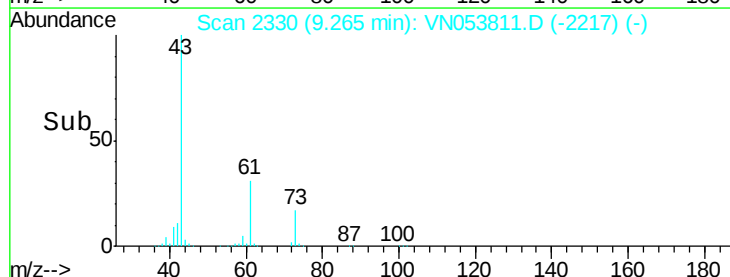
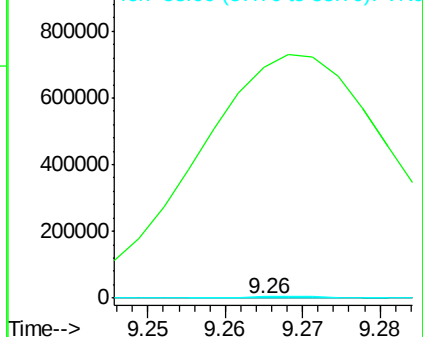


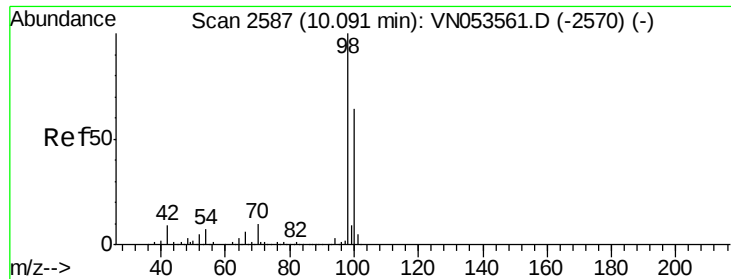
#49
1,4-Dioxane
Concen: 40.273 ug/l
RT: 9.26 min Scan# 2330
Delta R.T. 0.06 min
Lab File: VN053811.D
Acq: 15 Feb 2019 20:12

Tgt Ion: 88 Resp: 92
Ion Ratio Lower Upper
88 100
43 1615110.9 27.8 41.6#
58 8001.1 56.5 84.7#



Abundance Ion 88.00 (87.70 to 88.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC





#50

Toluene-d8

Concen: 50.630 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053811.D

Acq: 15 Feb 2019 20:12

Instrument :

MSVOA_N

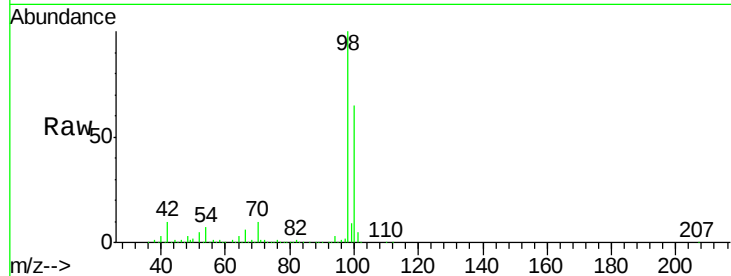
ClientSampleId :

Tot Ion: 98 Resp: 1343521

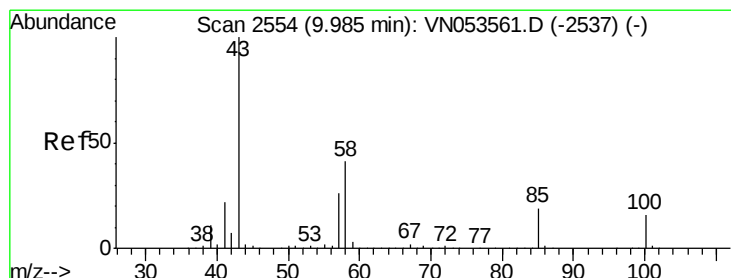
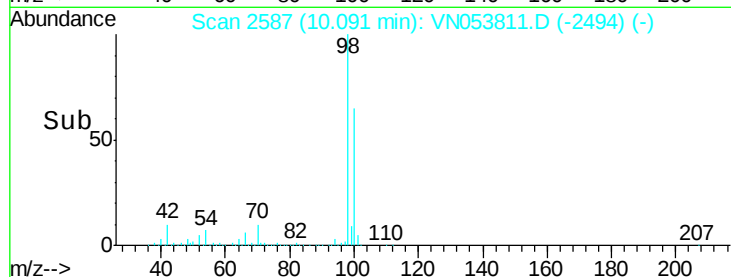
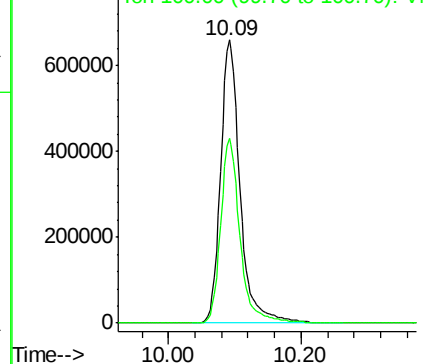
Ion Ratio Lower Upper

98 100

100 64.9 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN053811.D (-2494) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.505 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053811.D

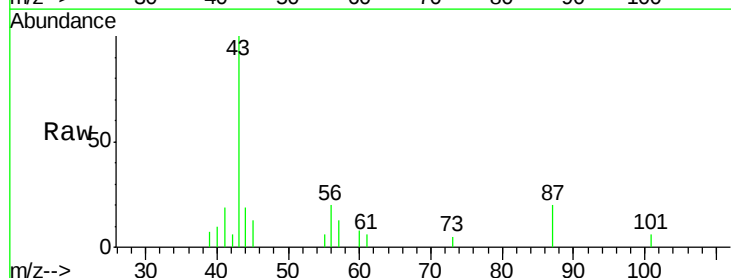
Acq: 15 Feb 2019 20:12

Tgt Ion: 43 Resp: 8045

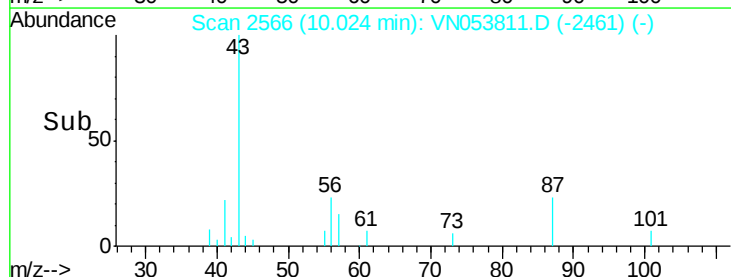
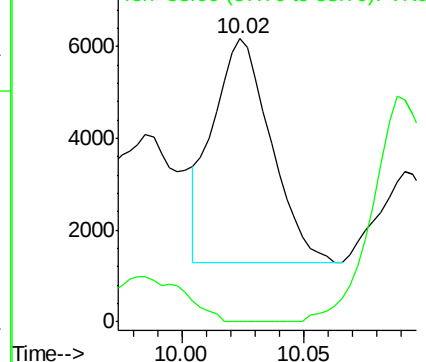
Ion Ratio Lower Upper

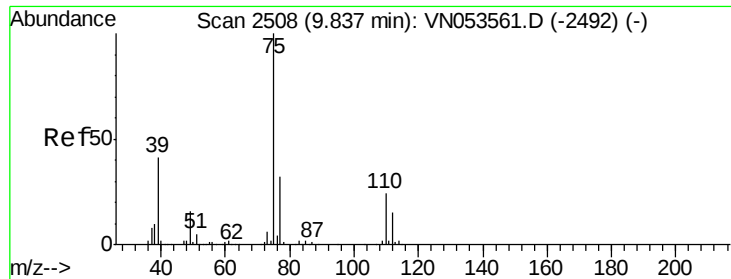
43 100

58 0.0 32.8 49.2#



Abundance Ion 43.00 (42.70 to 43.70): VN053811.D (-2461) (-)



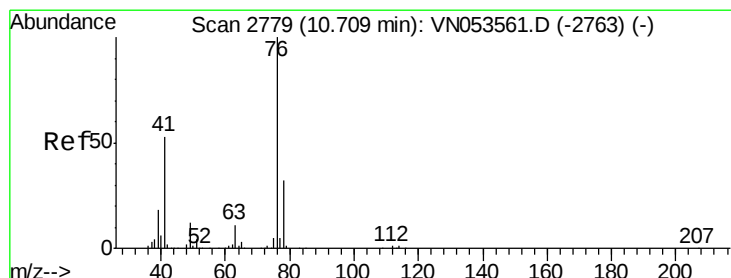
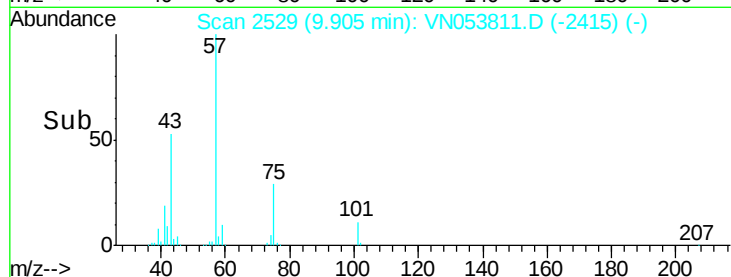
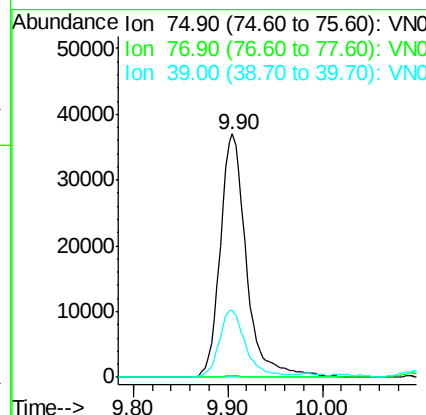
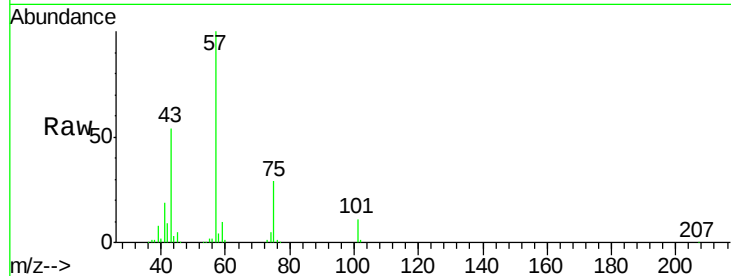


#54

cis-1,3-Dichloropropene
 Concen: 6.014 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN053811.D
 Acq: 15 Feb 2019 20:12

Instrument :
 MSVOA_N
 ClientSampleId :

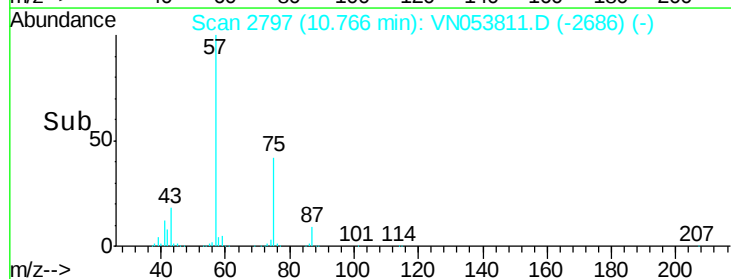
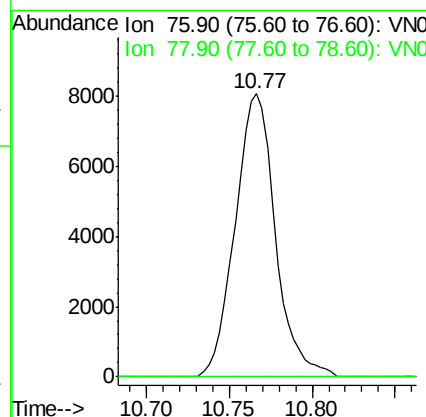
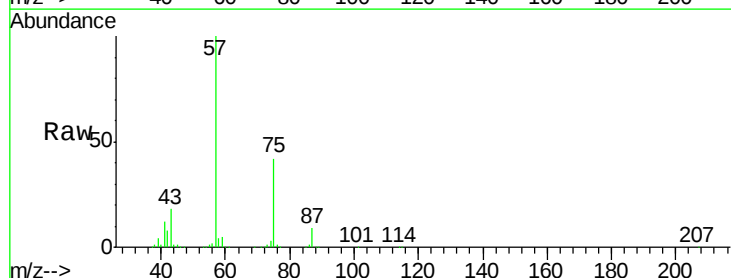
Tot Ion: 75 Resp: 71130
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.8 38.6#
 39 27.5 33.4 50.0#

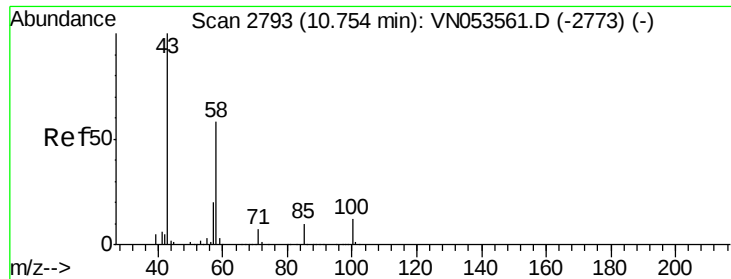


#57

1,3-Dichloropropane
 Concen: 1.196 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN053811.D
 Acq: 15 Feb 2019 20:12

Tgt Ion: 76 Resp: 13587
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

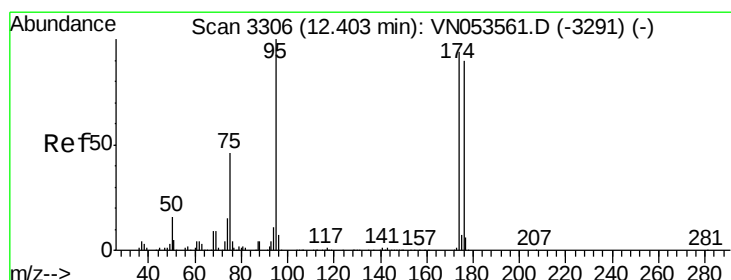
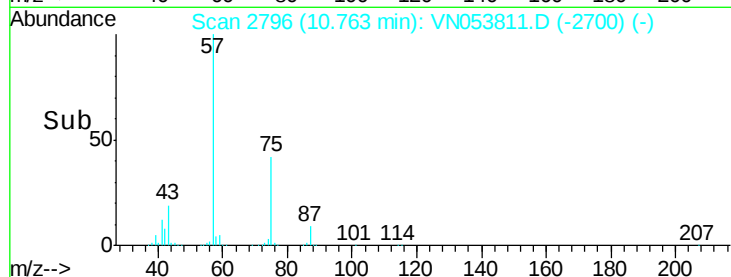
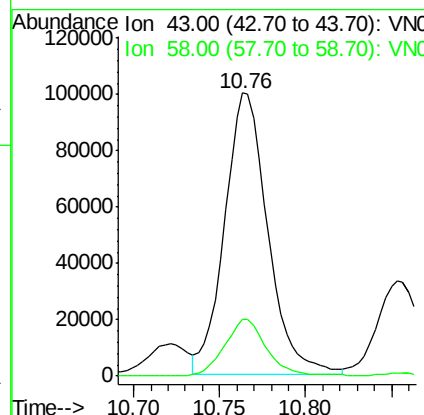
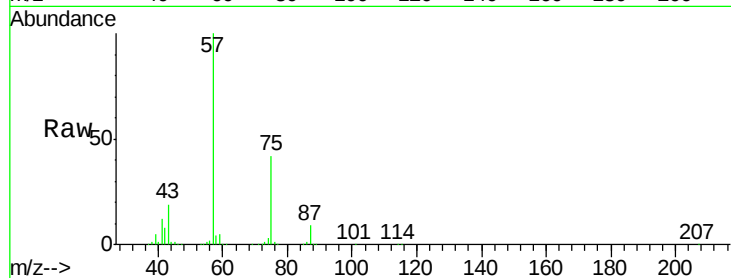




#59
2-Hexanone
Concen: 48.619 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053811.D
Acq: 15 Feb 2019 20:12

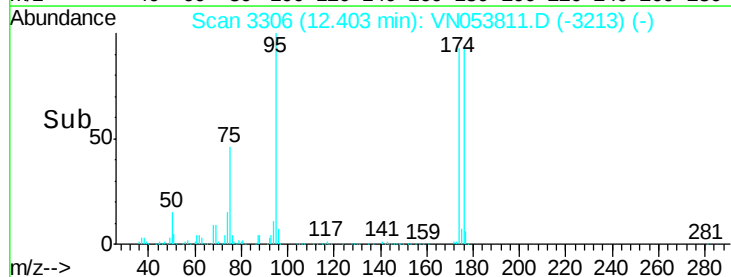
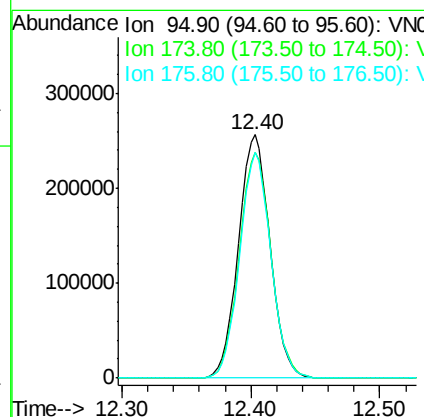
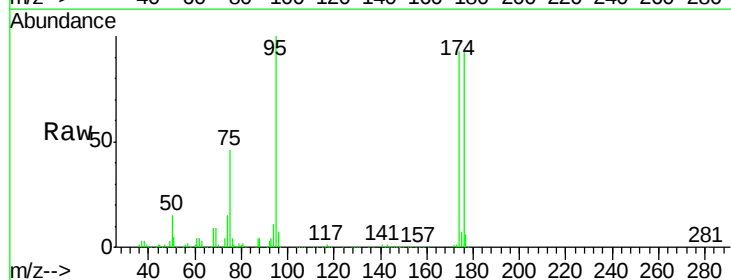
Instrument :
MSVOA_N
ClientSampled :

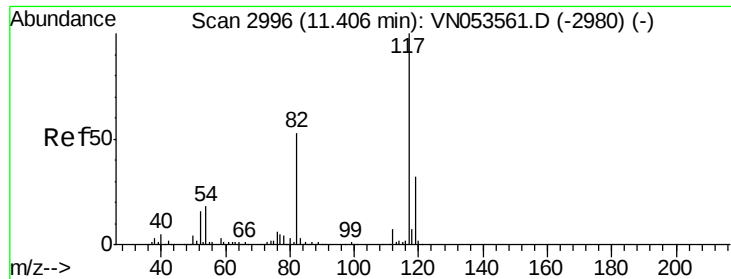
Tot Ion: 43 Resp: 176375
Ion Ratio Lower Upper
43 100
58 19.9 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: 49.210 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053811.D
Acq: 15 Feb 2019 20:12

Tgt Ion: 95 Resp: 435515
Ion Ratio Lower Upper
95 100
174 93.4 0.0 183.2
176 91.5 0.0 177.4

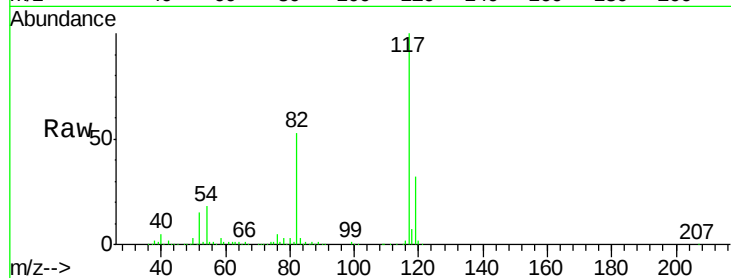




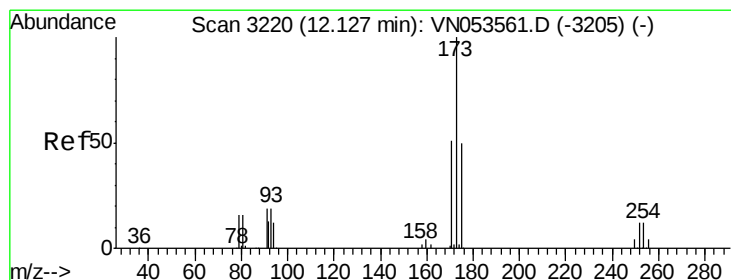
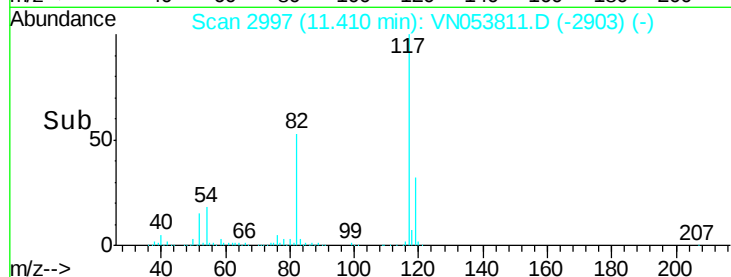
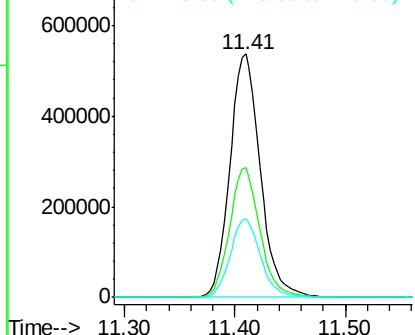
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053811.D
Acq: 15 Feb 2019 20:12

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 1026273
Ion Ratio Lower Upper
117 100
82 53.3 42.9 64.3
119 32.2 26.0 39.0

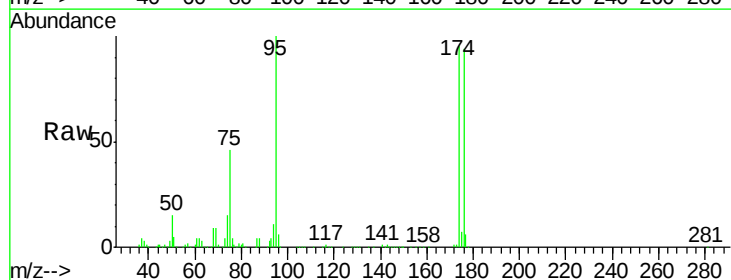


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

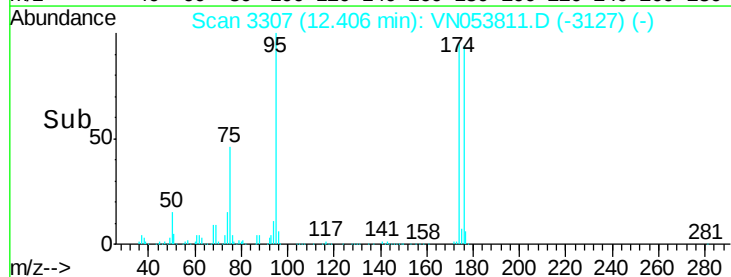
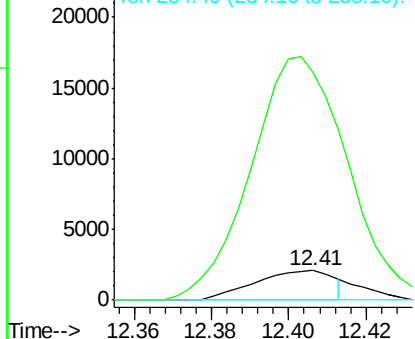


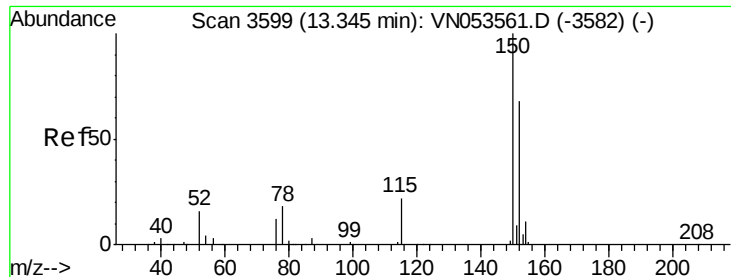
#71
Bromoform
Concen: 0.577 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN053811.D
Acq: 15 Feb 2019 20:12

Tgt Ion:173 Resp: 3009
Ion Ratio Lower Upper
173 100
175 833.8 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: VN053811.D

Acq: 15 Feb 2019 20:12

Instrument :

MSVOA_N

ClientSampleId :

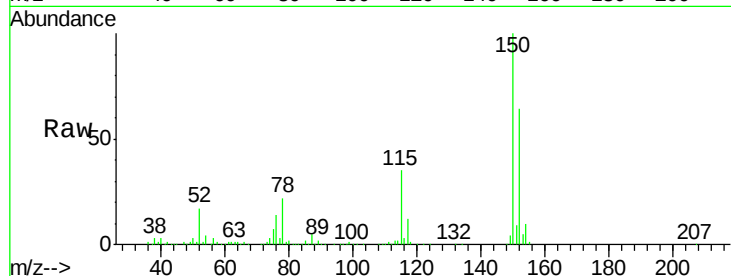
Tot Ion:152 Resp: 384811

Ion Ratio Lower Upper

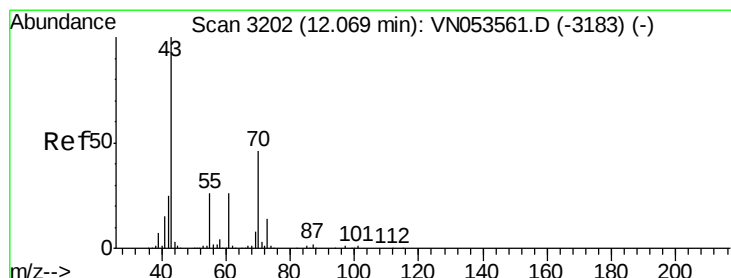
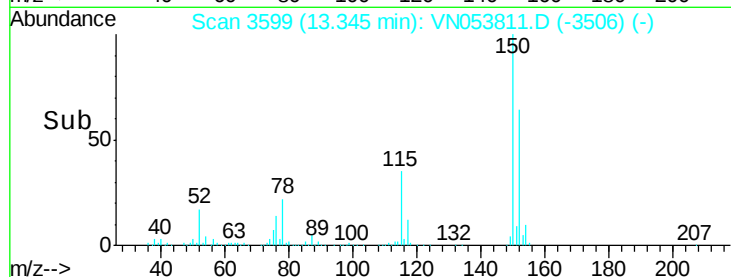
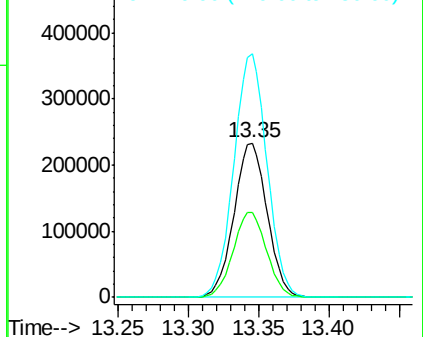
152 100

115 55.5 27.8 83.4

150 157.6 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-ethyl acetate

Concen: 3.178 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053811.D

Acq: 15 Feb 2019 20:12

Tgt Ion: 43 Resp: 20670

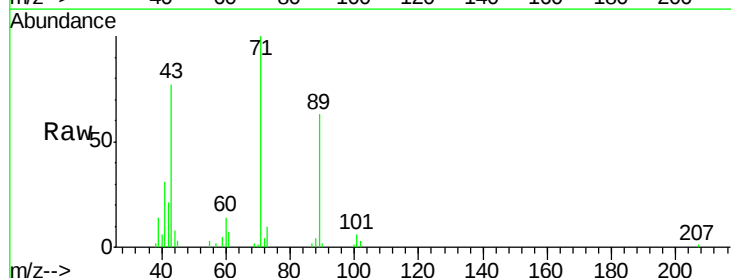
Ion Ratio Lower Upper

43 100

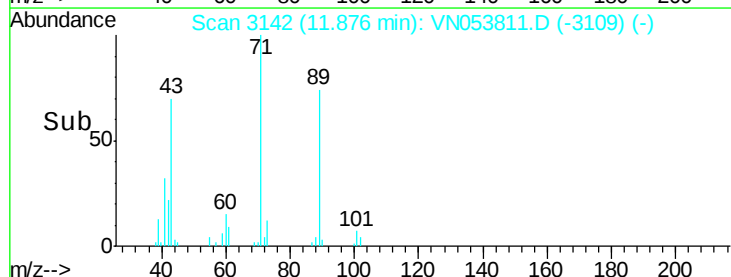
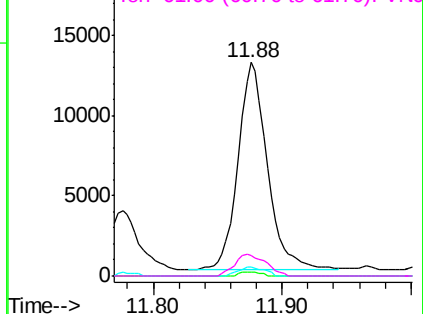
70 1.4 35.4 53.2#

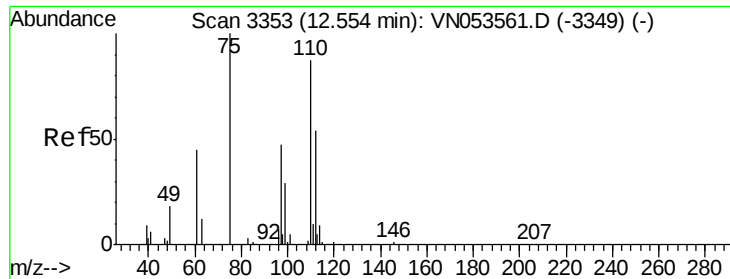
55 3.9 20.9 31.3#

61 10.9 20.5 30.7#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 70.00 (69.70 to 70.70): V
Ion 55.00 (54.70 to 55.70): V
Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 39.927 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053811.D

Acq: 15 Feb 2019 20:12

Instrument :

MSVOA_N

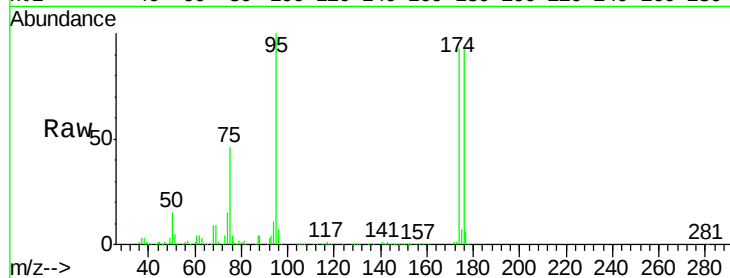
ClientSampleId :

Tot Ion: 75 Resp: 197344

Ion Ratio Lower Upper

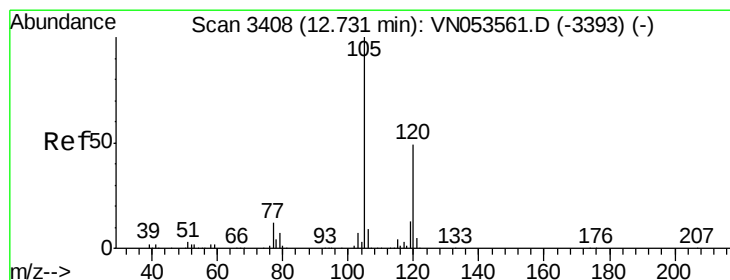
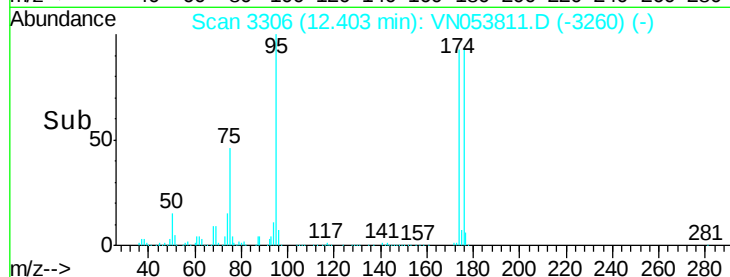
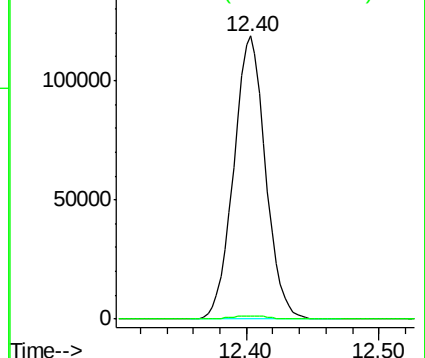
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#80

1,3,5-Trimethylbenzene

Concen: 0.349 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053811.D

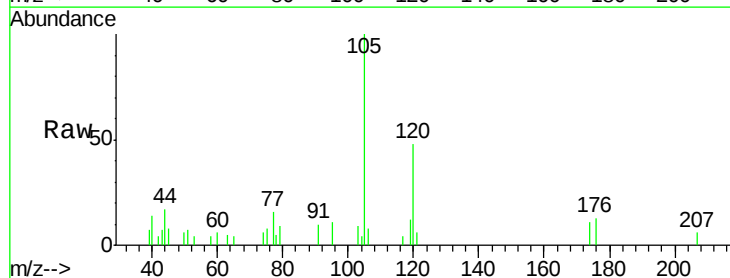
Acq: 15 Feb 2019 20:12

Tgt Ion:105 Resp: 7840

Ion Ratio Lower Upper

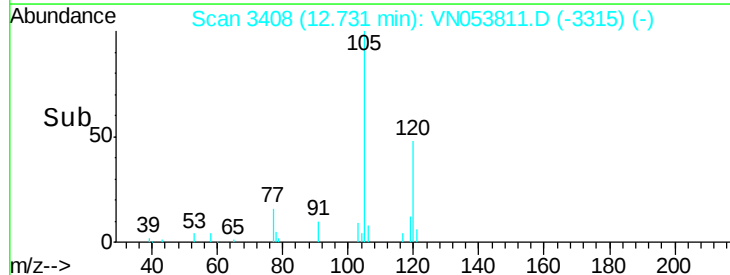
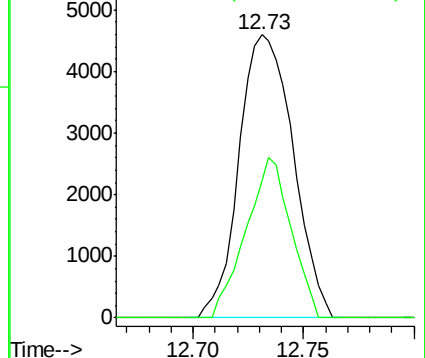
105 100

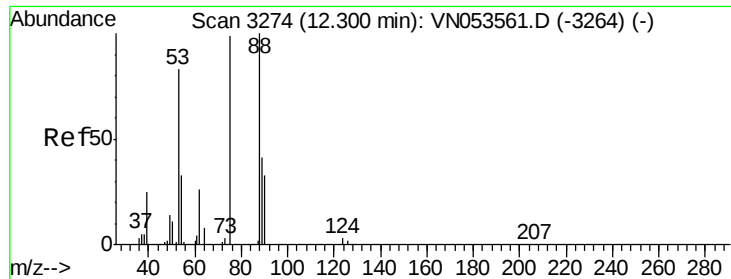
120 47.0 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 112.271 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053811.D

Acq: 15 Feb 2019 20:12

Instrument :

MSVOA_N

ClientSampleId :

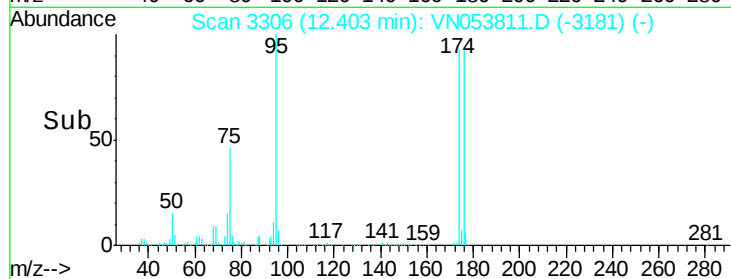
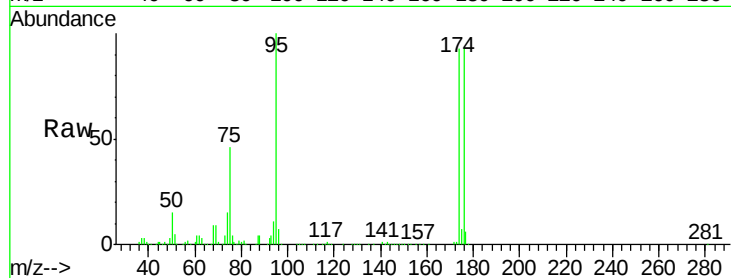
Tot Ion: 75 Resp: 197344

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

89 0.0 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

