

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031419\
 Data File : VN054275.D
 Acq On : 14 Mar 2019 21:16
 Operator : JC/SP
 Sample : K1887-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4

Quant Time: Mar 15 06:57:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1374772	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2260837	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2294772	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	872909	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	718350	49.20	ug/l	0.00
Spiked Amount			Recovery	=	98.40%	
35) Dibromofluoromethane	7.59	113	703224	48.23	ug/l	0.00
Spiked Amount			Recovery	=	96.46%	
50) Toluene-d8	10.09	98	2776494	51.56	ug/l	0.00
Spiked Amount			Recovery	=	103.12%	
62) 4-Bromofluorobenzene	12.40	95	988857	52.48	ug/l	0.00
Spiked Amount			Recovery	=	104.96%	

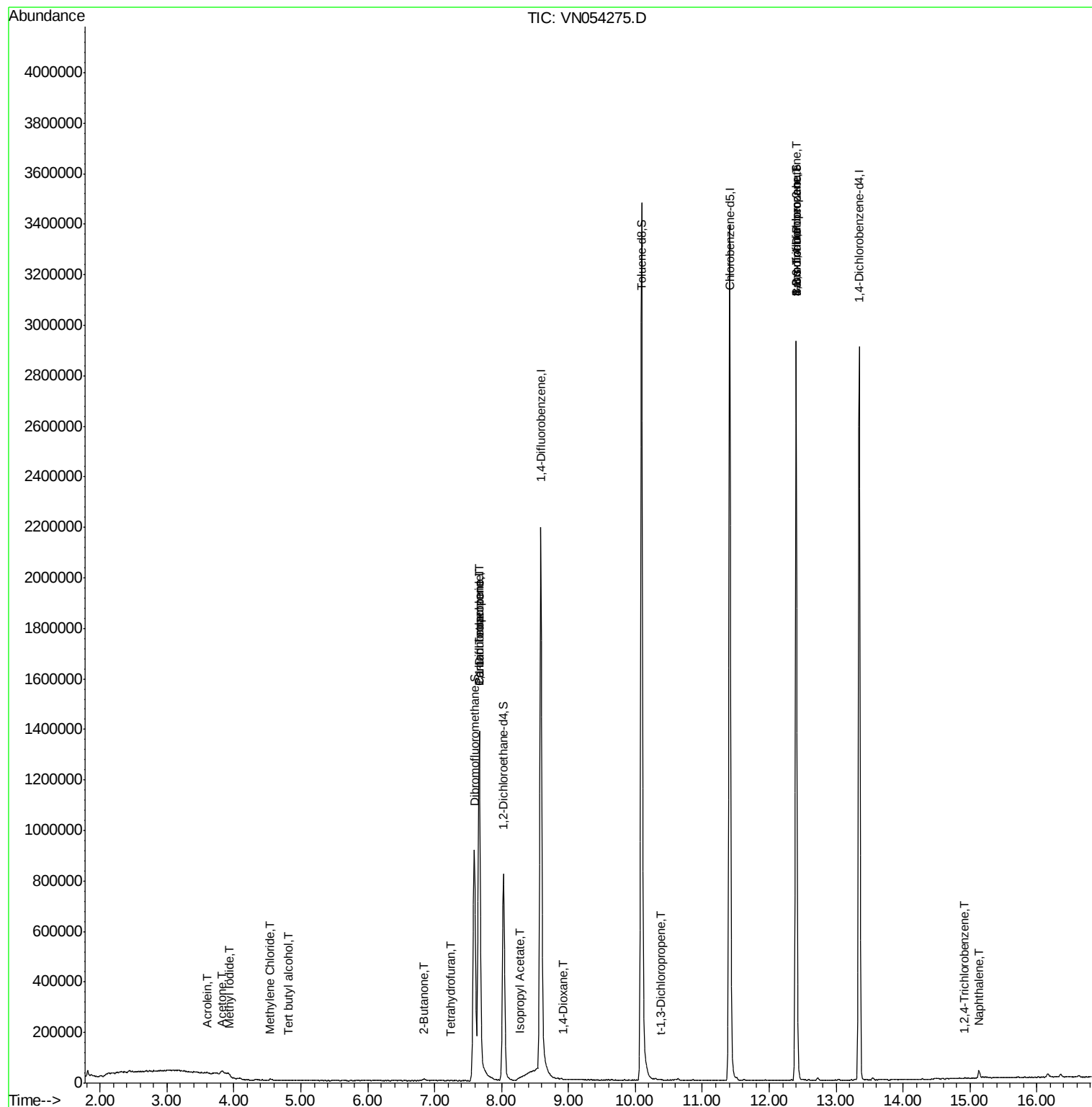
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.94	142	100	1.502	ug/l #	1
11) Tert butyl alcohol	4.81	59	598	0.597	ug/l #	70
13) Acrolein	3.61	56	514	0.542	ug/l #	29
16) Acetone	3.82	43	12029	2.878	ug/l	99
20) Methylene Chloride	4.54	84	3184	0.232	ug/l #	80
25) 2-Butanone	6.85	43	1360	0.277	ug/l #	46
29) Tetrahydrofuran	7.24	42	773	0.245	ug/l #	54
31) Cyclohexane	7.66	56	20638	Below Cal	#	12
36) 1,1-Dichloropropene	7.66	75	78955	3.792	ug/l #	48
38) Carbon Tetrachloride	7.66	117	114338	5.237	ug/l #	16
43) Isopropyl Acetate	8.27	43	9208	0.439	ug/l #	60
49) 1,4-Dioxane	8.92	88	110	0.730	ug/l #	1
53) t-1,3-Dichloropropene	10.37	75	102	1.990	ug/l	89
71) Bromoform	12.41	173	5598	2.733	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	468893	36.528	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	468893	124.869	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	128	2.523	ug/l #	22
95) Naphthalene	15.13	128	29249	4.181	ug/l #	97

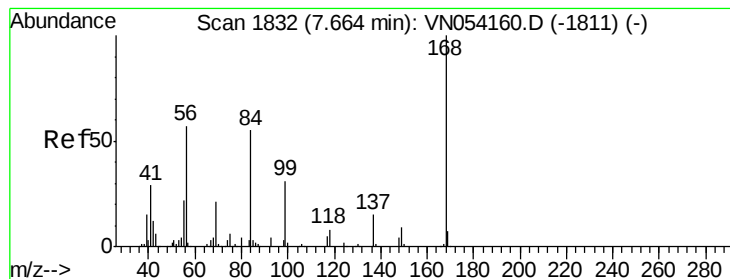
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 15 06:57:34 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 13 03:33:31 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: VN054275.D

Acq: 14 Mar 2019 21:16

Instrument :

MSVOA_N

ClientSampled :

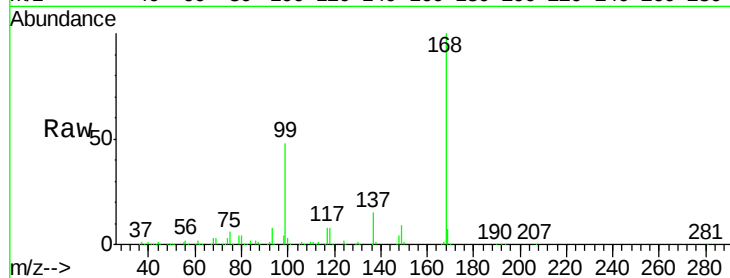
MW-4

Tot Ion:168 Resp: 1374772

Ion Ratio Lower Upper

168 100

99 48.2 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

600000

500000

400000

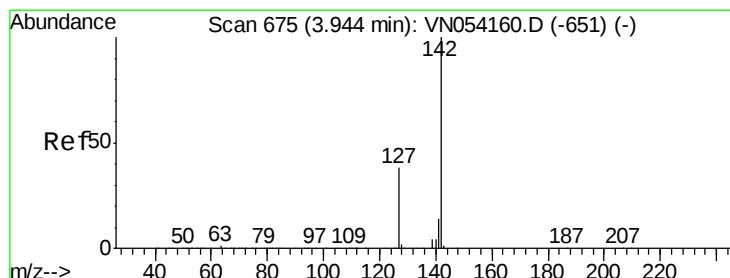
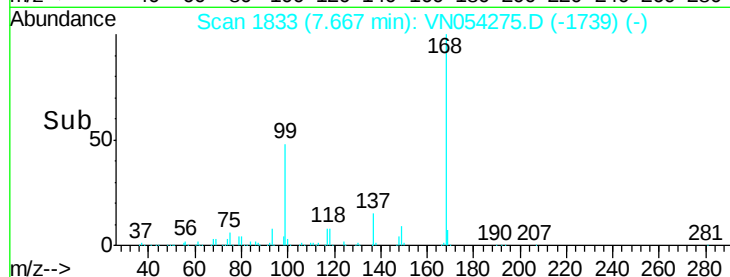
300000

200000

100000

0

Time-->



#10

Methyl Iodide

Concen: 1.502 ug/l

RT: 3.94 min Scan# 673

Delta R.T. -0.01 min

Lab File: VN054275.D

Acq: 14 Mar 2019 21:16

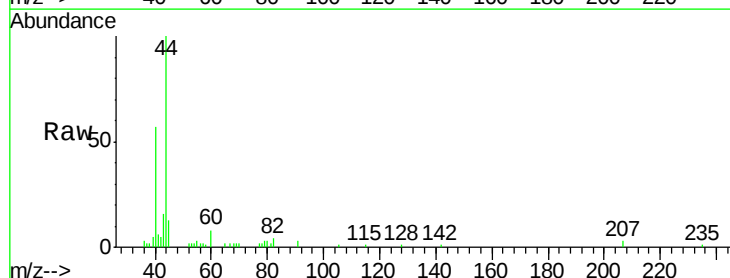
Tgt Ion:142 Resp: 100

Ion Ratio Lower Upper

142 100

127 118.0 30.3 45.5#

141 0.0 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

300

250

200

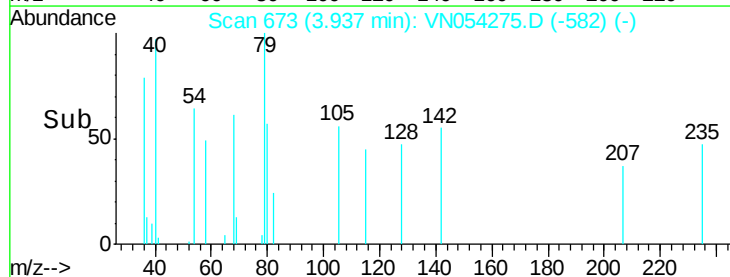
150

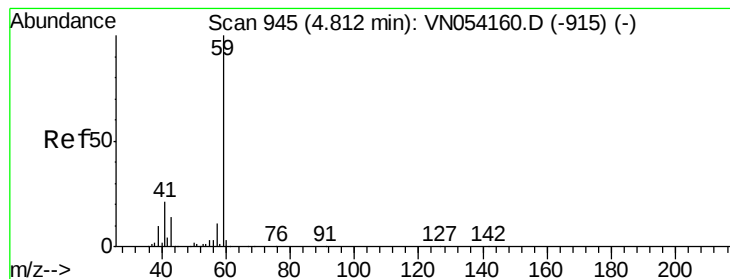
100

50

0

Time-->



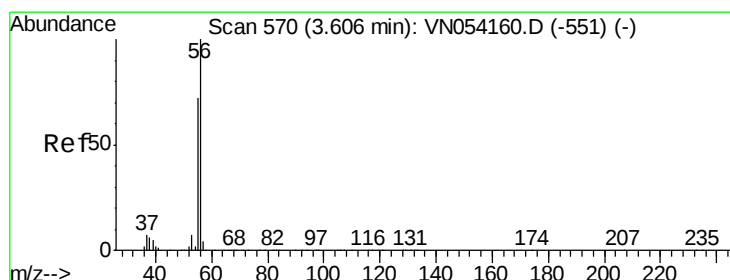
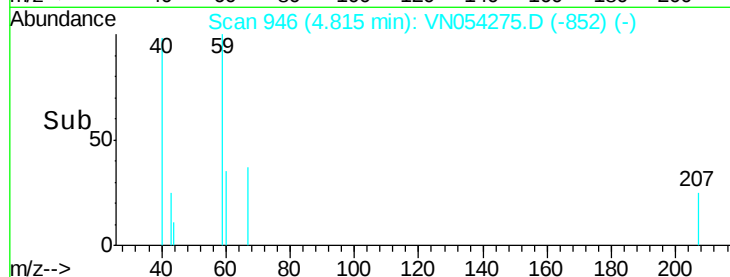
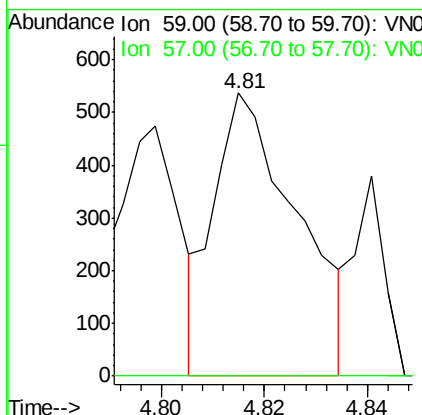
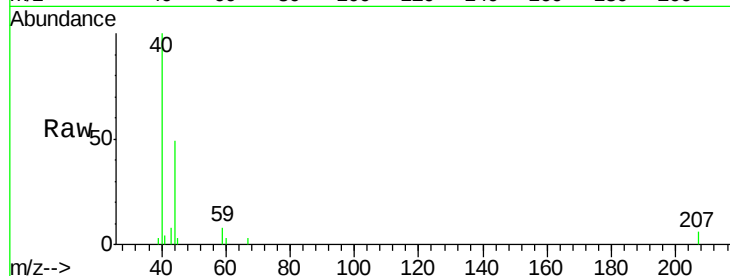


#11

Tert butyl alcohol
 Concen: 0.597 ug/l
 RT: 4.81 min Scan# 946
 Delta R.T. 0.00 min
 Lab File: VN054275.D
 Acq: 14 Mar 2019 21:16

Instrument :
 MSVOA_N
 ClientSampled :
 MW-4

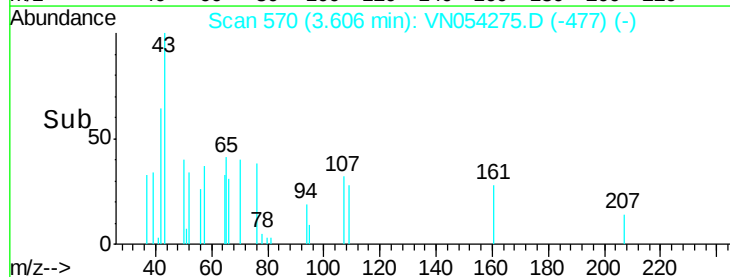
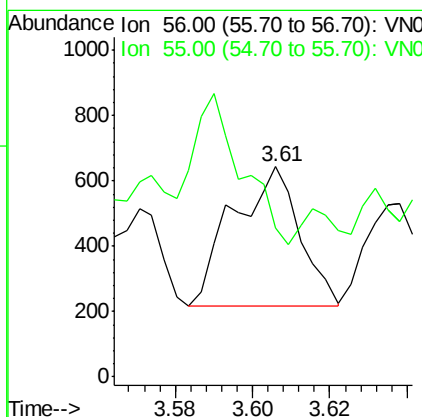
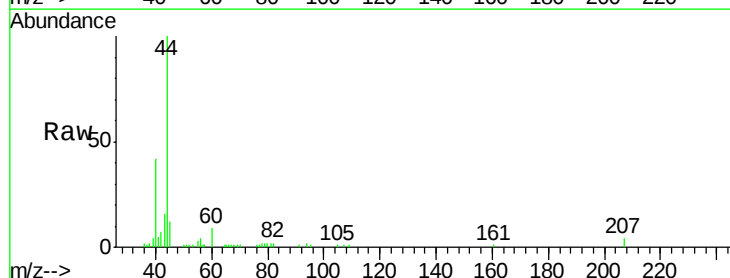
Tot Ion: 59 Resp: 598
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.0 13.6#

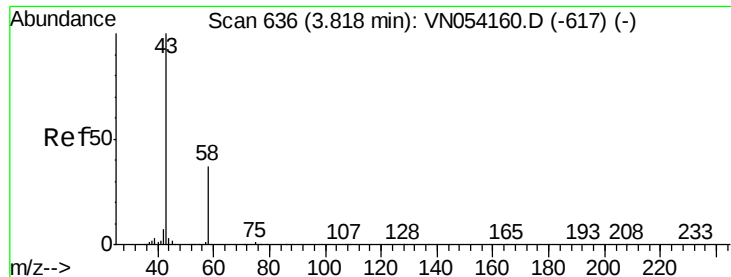


#13

Acrolein
 Concen: 0.542 ug/l
 RT: 3.61 min Scan# 570
 Delta R.T. -0.00 min
 Lab File: VN054275.D
 Acq: 14 Mar 2019 21:16

Tgt Ion: 56 Resp: 514
 Ion Ratio Lower Upper
 56 100
 55 12.5 56.7 85.1#





#16

Acetone

Concen: 2.878 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN054275.D

Acq: 14 Mar 2019 21:16

Instrument :

MSVOA_N

ClientSampleId :

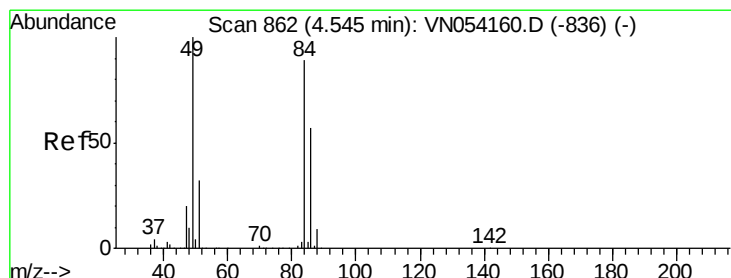
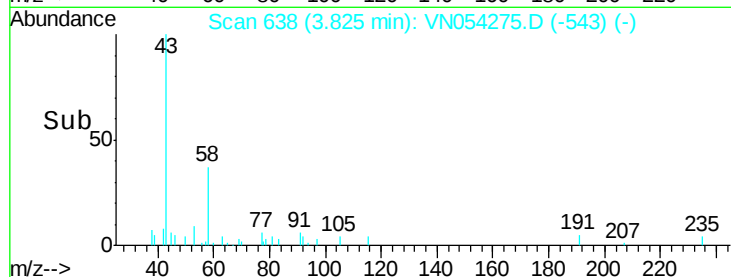
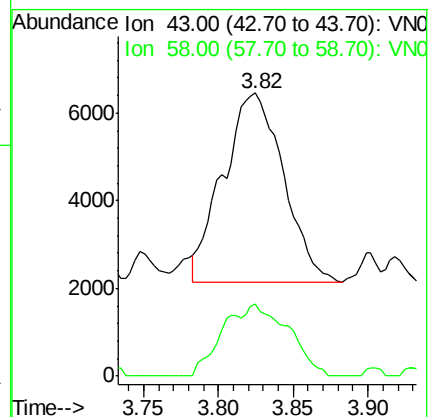
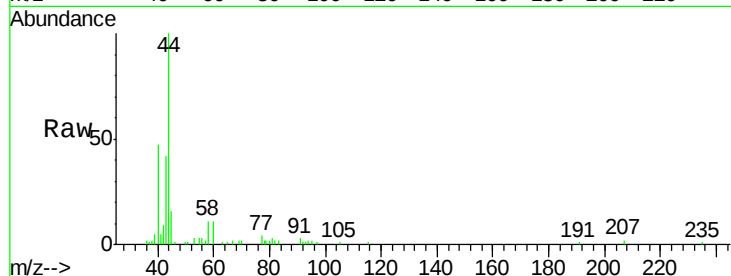
MW-4

Tot Ion: 43 Resp: 12029

Ion Ratio Lower Upper

43 100

58 37.9 29.9 44.9



#20

Methylene Chloride

Concen: 0.232 ug/l

RT: 4.54 min Scan# 861

Delta R.T. -0.00 min

Lab File: VN054275.D

Acq: 14 Mar 2019 21:16

Tgt Ion: 84 Resp: 3184

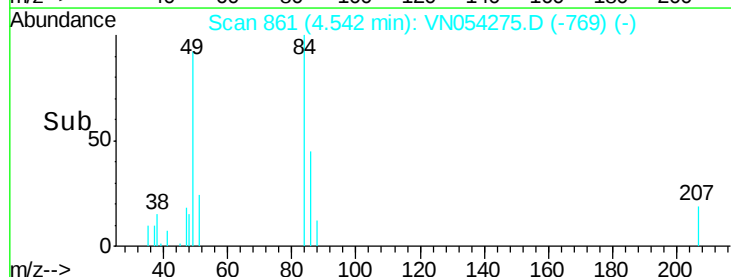
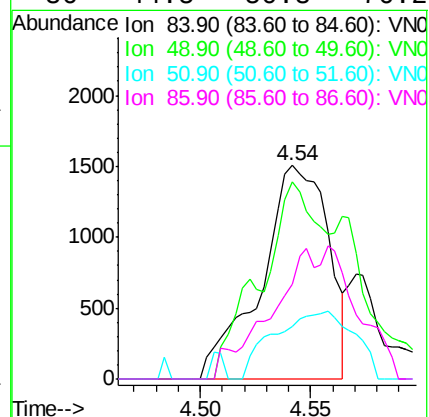
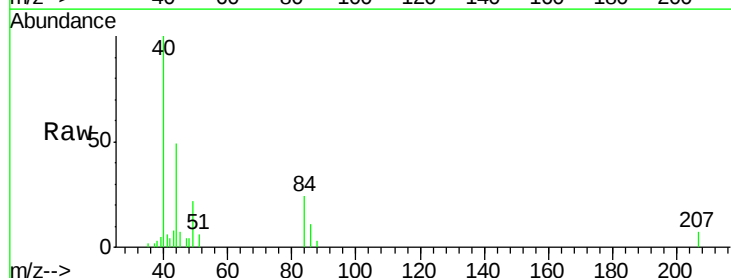
Ion Ratio Lower Upper

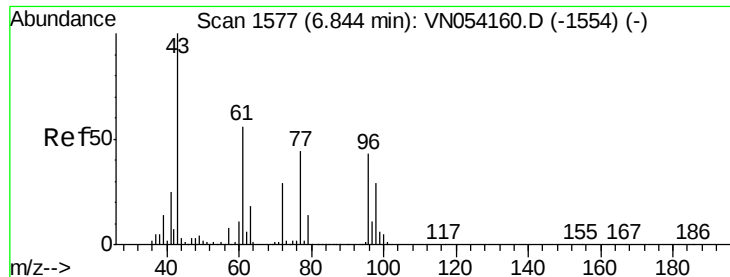
84 100

49 92.4 89.7 134.5

51 24.4 28.2 42.4#

86 44.5 50.8 76.2#





#25

2-Butanone

Concen: 0.277 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VN054275.D

Acq: 14 Mar 2019 21:16

Instrument :

MSVOA_N

ClientSampled :

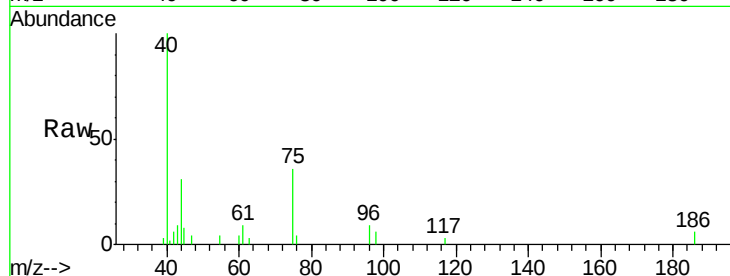
MW-4

Tot Ion: 43 Resp: 1360

Ion Ratio Lower Upper

43 100

72 0.0 23.0 34.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.85

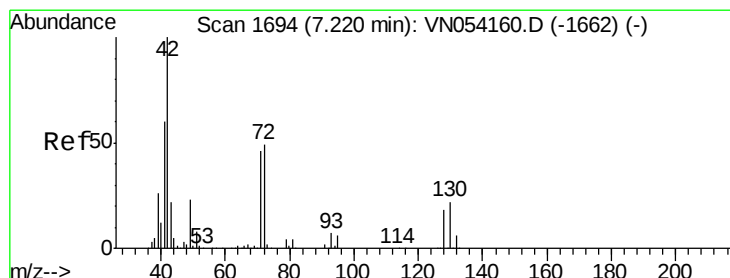
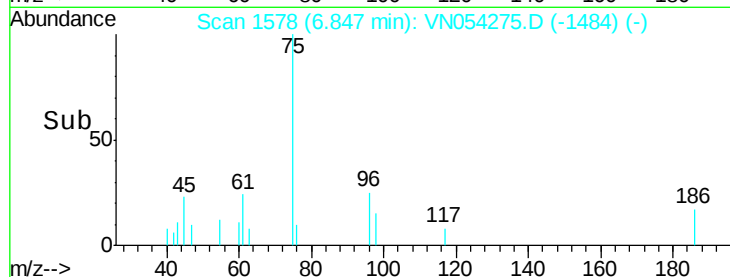
600

400

200

0

Time-->



#29

Tetrahydrofuran

Concen: 0.245 ug/l

RT: 7.24 min Scan# 1700

Delta R.T. 0.02 min

Lab File: VN054275.D

Acq: 14 Mar 2019 21:16

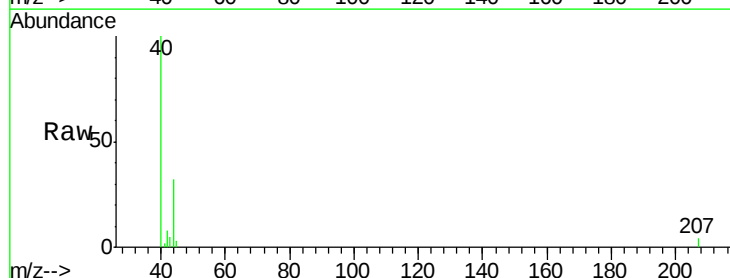
Tgt Ion: 42 Resp: 773

Ion Ratio Lower Upper

42 100

72 22.5 37.8 56.6#

71 9.4 36.2 54.2#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

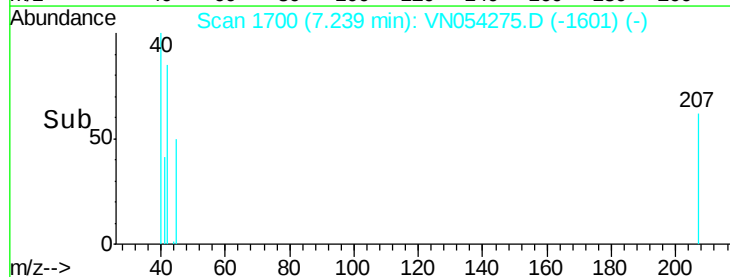
600

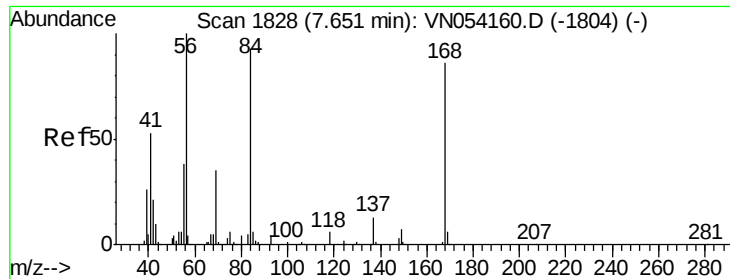
400

200

0

Time-->

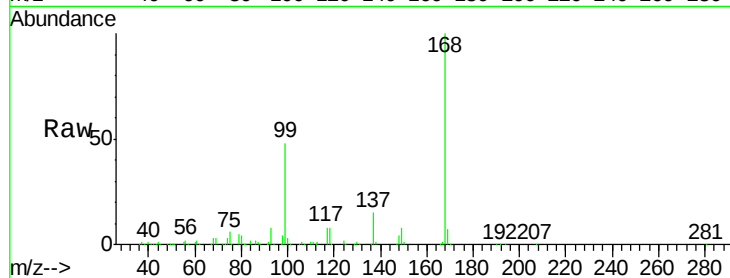




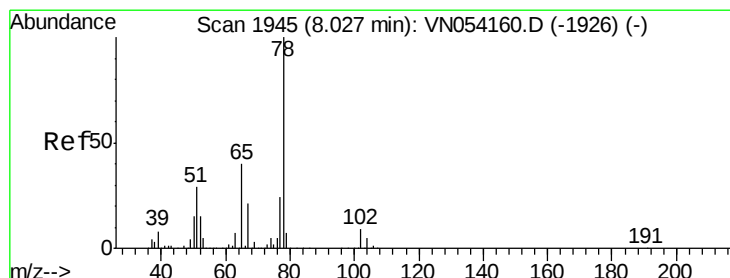
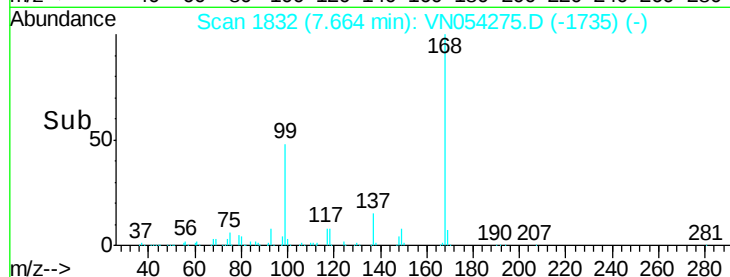
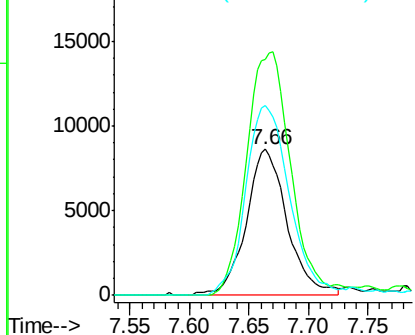
#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN054275.D
Acq: 14 Mar 2019 21:16

Instrument :
MSVOA_N
ClientSampled :
MW-4

Tot Ion: 56 Resp: 20638
Ion Ratio Lower Upper
56 100
69 162.0 27.8 41.6#
84 129.9 74.6 111.8#

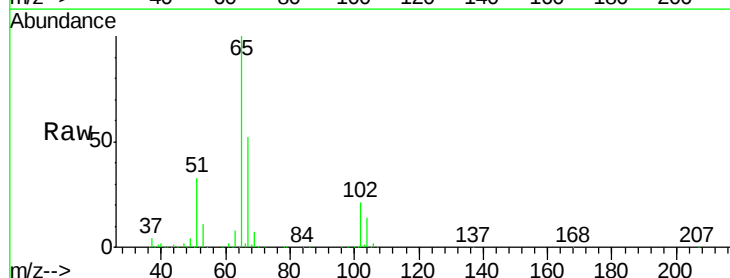


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

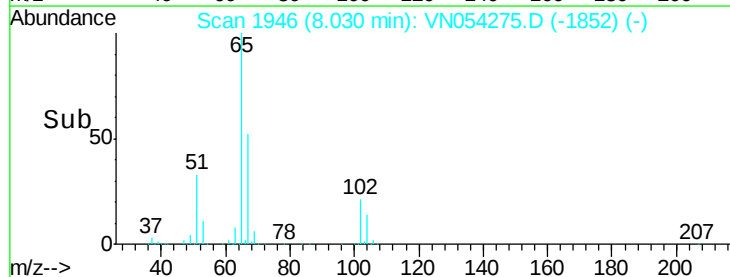
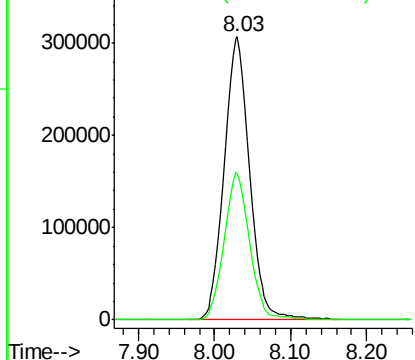


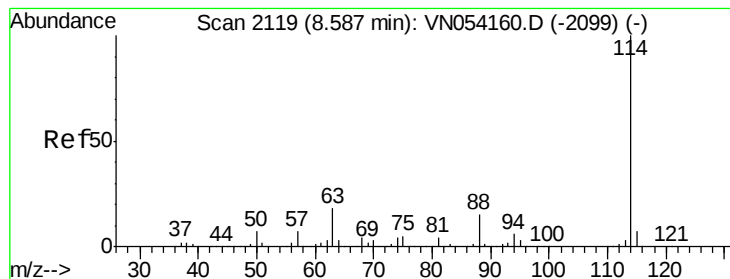
#33
1,2-Dichloroethane-d4
Concen: 49.202 ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN054275.D
Acq: 14 Mar 2019 21:16

Tgt Ion: 65 Resp: 718350
Ion Ratio Lower Upper
65 100
67 51.8 0.0 104.6



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: VN054275.D

Acq: 14 Mar 2019 21:16

Instrument :

MSVOA_N

ClientSampled :

MW-4

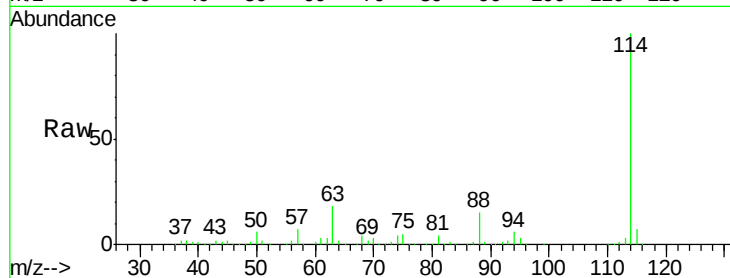
Tot Ion:114 Resp: 2260837

Ion Ratio Lower Upper

114 100

63 17.6 0.0 35.2

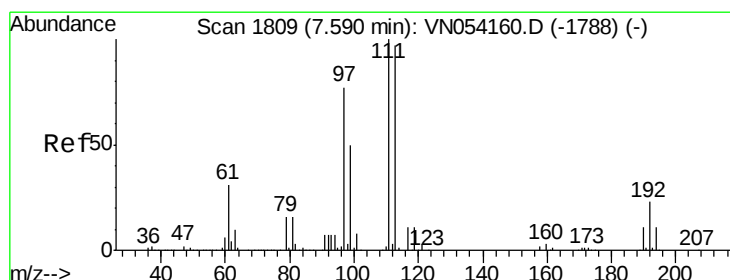
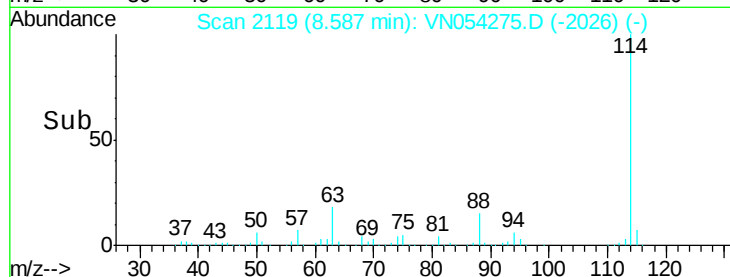
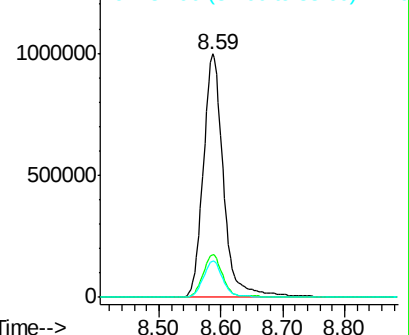
88 15.1 0.0 30.2



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: 48.227 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054275.D

Acq: 14 Mar 2019 21:16

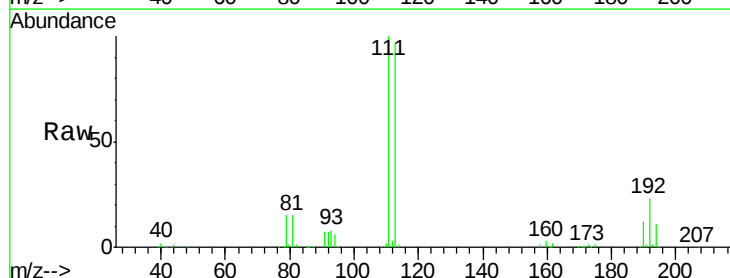
Tgt Ion:113 Resp: 703224

Ion Ratio Lower Upper

113 100

111 102.2 82.2 123.4

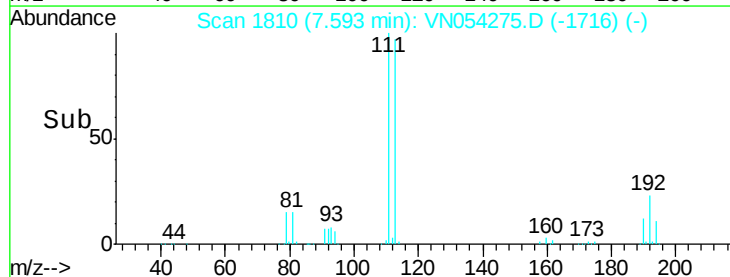
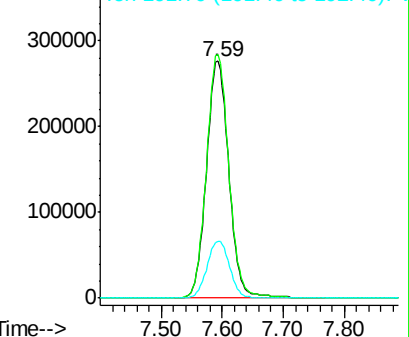
192 24.4 19.2 28.8

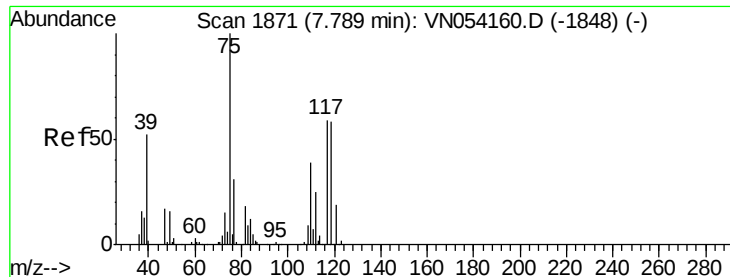


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.792 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054275.D

Acq: 14 Mar 2019 21:16

Instrument :

MSVOA_N

ClientSampleId :

MW-4

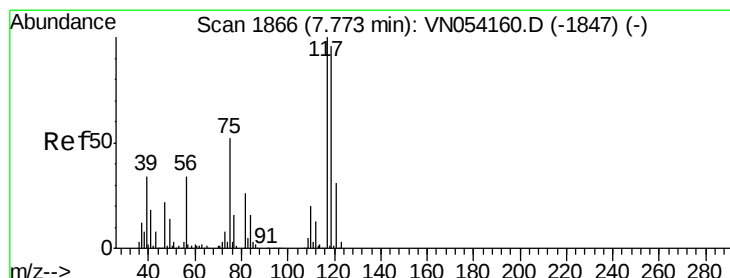
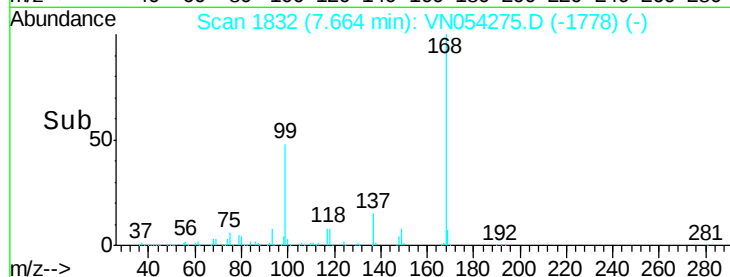
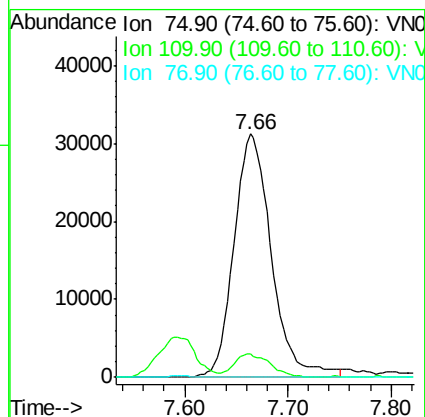
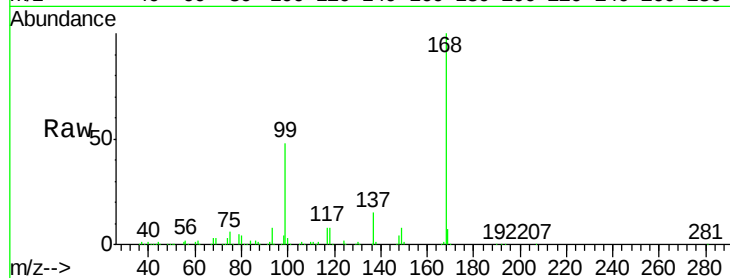
Tot Ion: 75 Resp: 78955

Ion Ratio Lower Upper

75 100

110 9.2 19.1 57.5#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 5.237 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054275.D

Acq: 14 Mar 2019 21:16

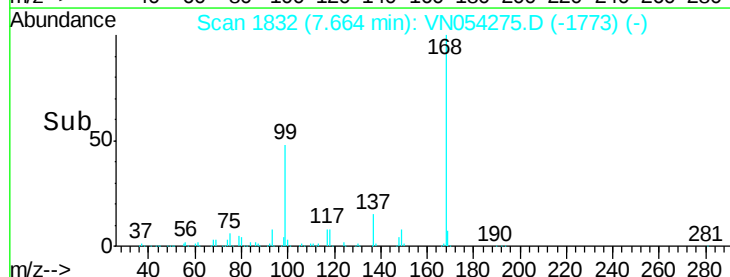
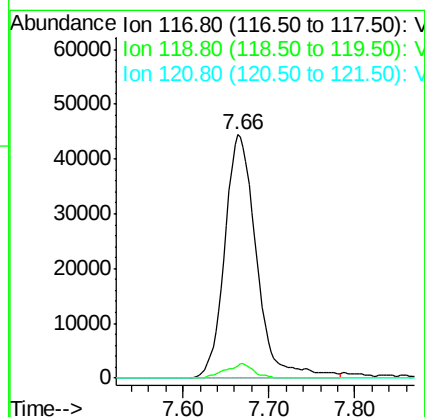
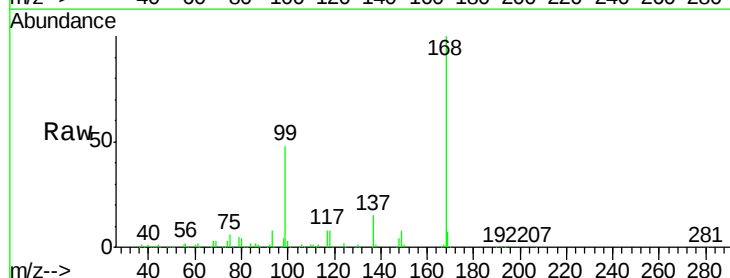
Tgt Ion: 117 Resp: 114338

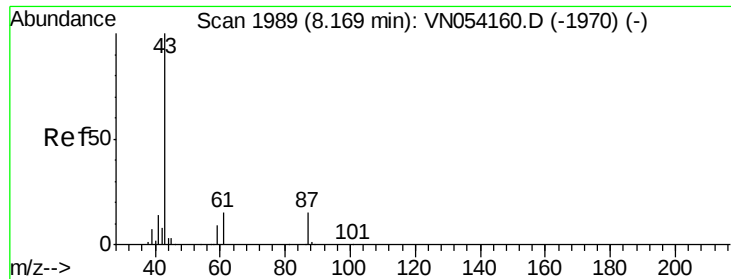
Ion Ratio Lower Upper

117 100

119 4.9 76.3 114.5#

121 0.0 24.6 36.8#

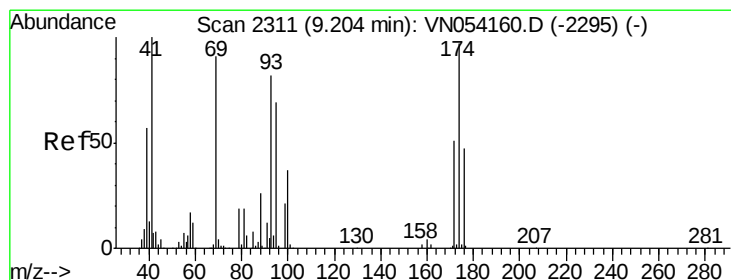
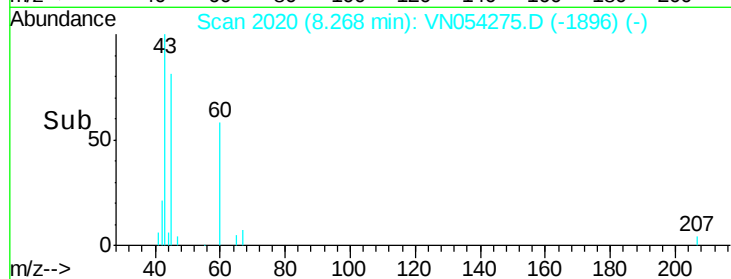
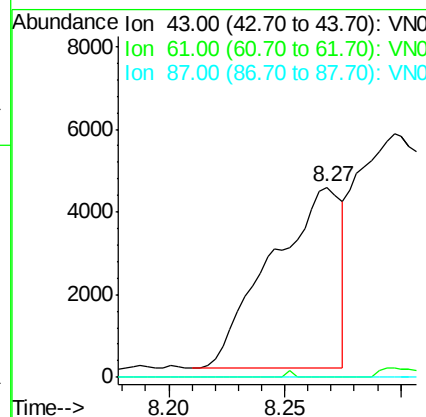
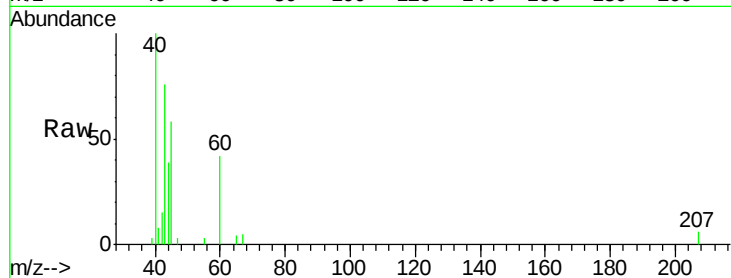




#43
Isopropyl Acetate
Concen: 0.439 ug/l
RT: 8.27 min Scan# 2020
Delta R.T. 0.10 min
Lab File: VN054275.D
Acq: 14 Mar 2019 21:16

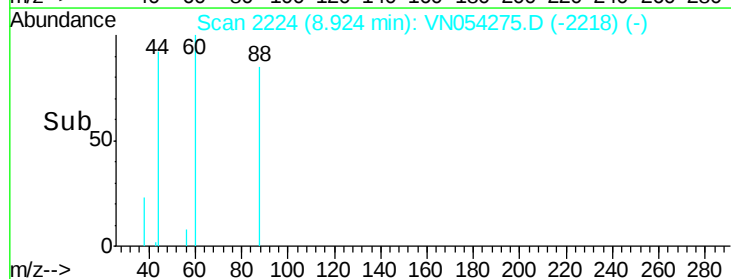
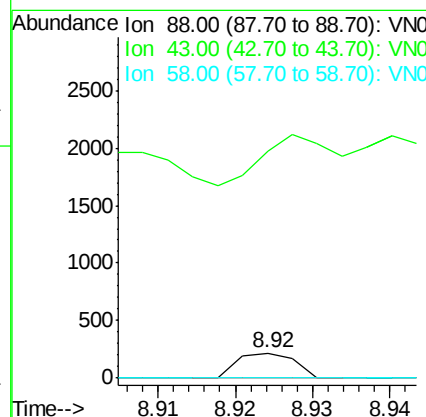
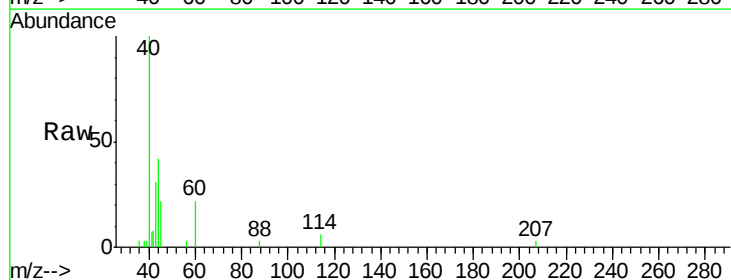
Instrument :
MSVOA_N
ClientSampleId :
MW-4

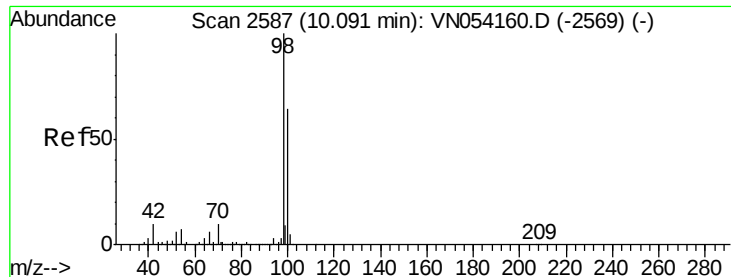
Tot Ion: 43 Resp: 9208
Ion Ratio Lower Upper
43 100
61 0.0 15.8 23.8#
87 0.0 12.0 18.0#



#49
1,4-Dioxane
Concen: 0.730 ug/l
RT: 8.92 min Scan# 2224
Delta R.T. -0.28 min
Lab File: VN054275.D
Acq: 14 Mar 2019 21:16

Tgt Ion: 88 Resp: 110
Ion Ratio Lower Upper
88 100
43 258.2 24.1 36.1#
58 0.0 50.8 76.2#

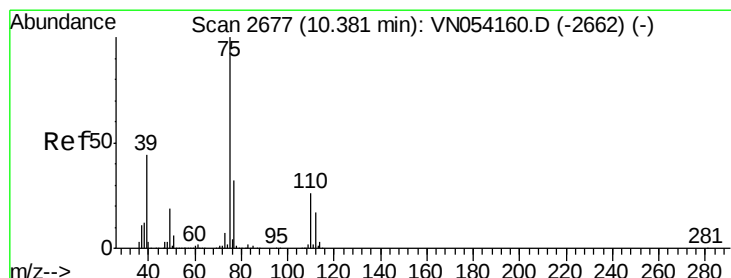
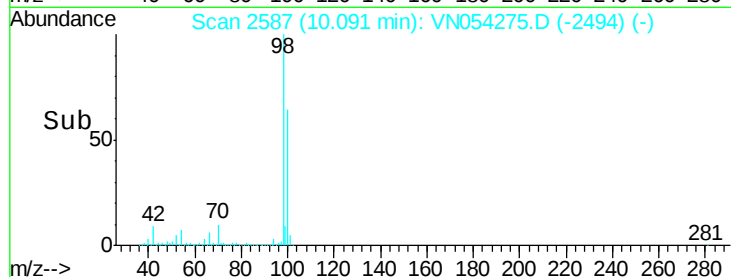
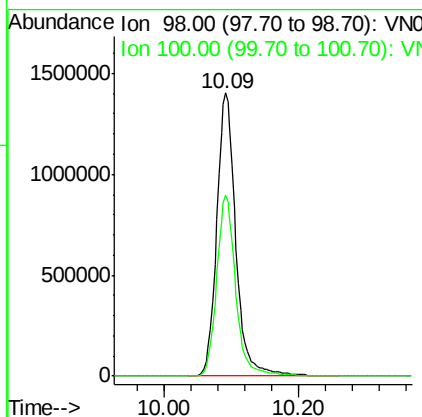
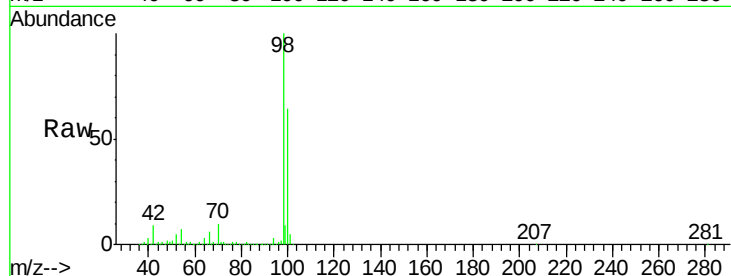




#50
Toluene-d8
Concen: 51.558 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054275.D
Acq: 14 Mar 2019 21:16

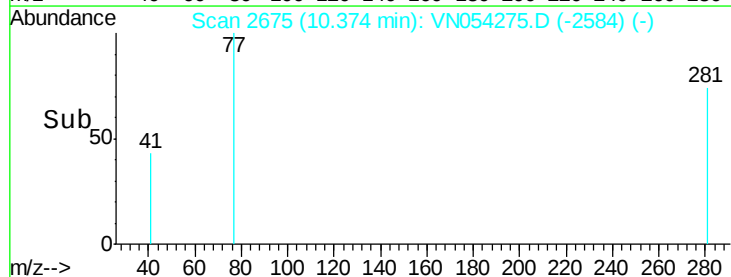
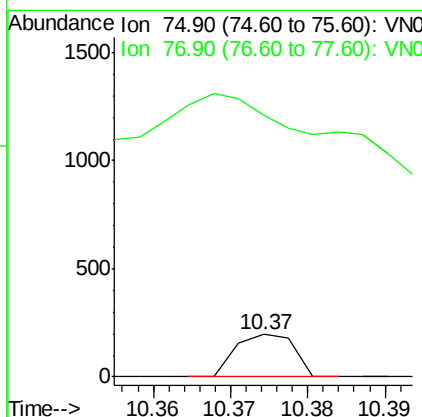
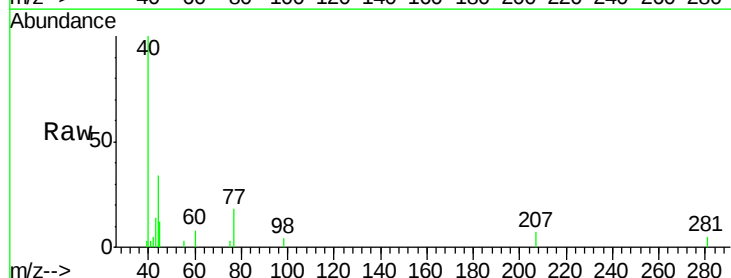
Instrument :
MSVOA_N
ClientSampled :
MW-4

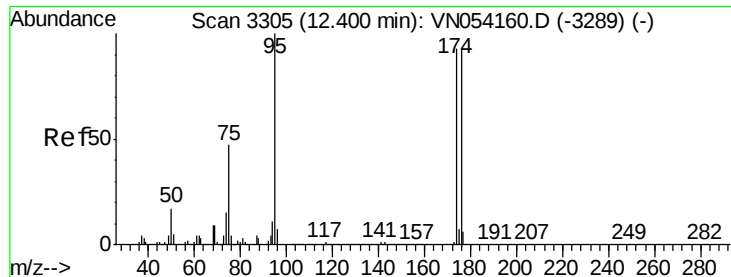
Tot Ion: 98 Resp: 2776494
Ion Ratio Lower Upper
98 100
100 63.9 51.2 76.8



#53
t-1,3-Dichloropropene
Concen: 1.990 ug/l
RT: 10.37 min Scan# 2675
Delta R.T. -0.01 min
Lab File: VN054275.D
Acq: 14 Mar 2019 21:16

Tgt Ion: 75 Resp: 102
Ion Ratio Lower Upper
75 100
77 38.5 25.8 38.8





#62

4-Bromofluorobenzene

Concen: 52.480 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN054275.D

Acq: 14 Mar 2019 21:16

Instrument :

MSVOA_N

ClientSampled :

MW-4

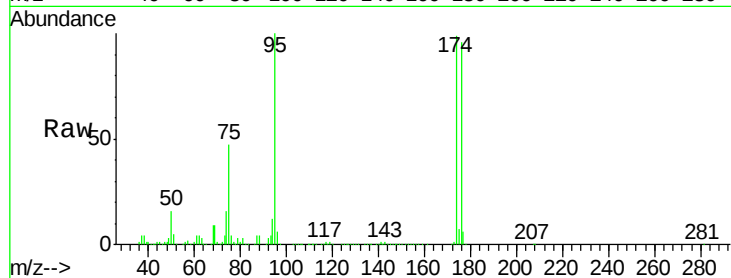
Tot Ion: 95 Resp: 988857

Ion Ratio Lower Upper

95 100

174 98.6 0.0 191.0

176 96.2 0.0 187.4

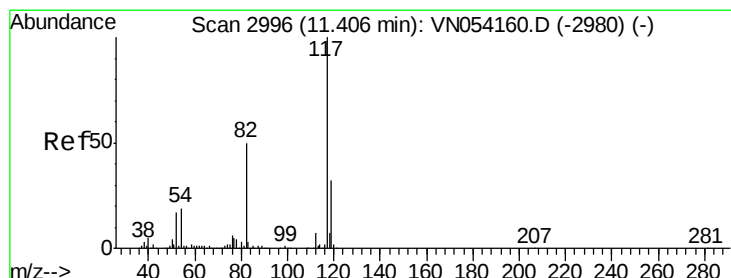
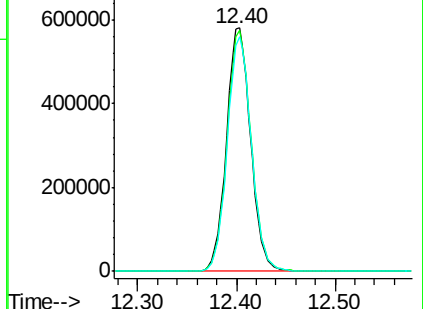
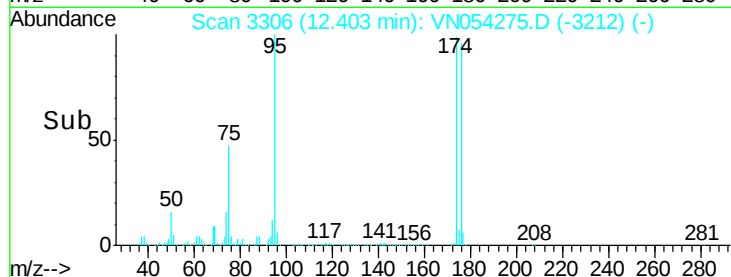


Abundance Ion 94.90 (94.60 to 95.60): VN054160.D (-3289) (-)

Ion 173.80 (173.50 to 174.50): VN054160.D (-3289) (-)

Ion 175.80 (175.50 to 176.50): VN054160.D (-3289) (-)

12.40



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN054275.D

Acq: 14 Mar 2019 21:16

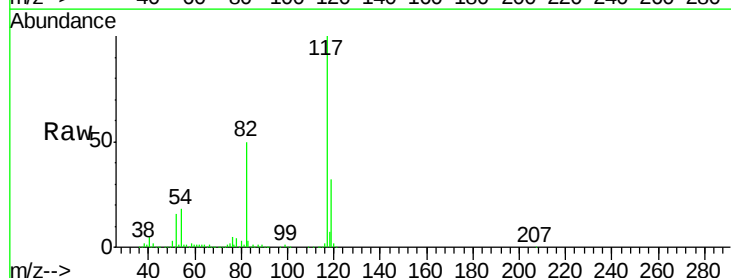
Tgt Ion: 117 Resp: 2294772

Ion Ratio Lower Upper

117 100

82 49.6 40.0 60.0

119 32.2 25.8 38.6

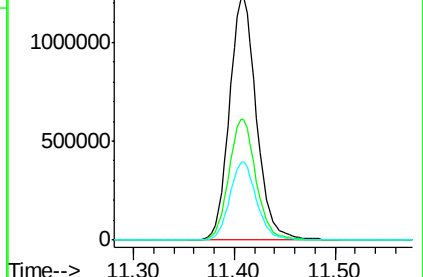
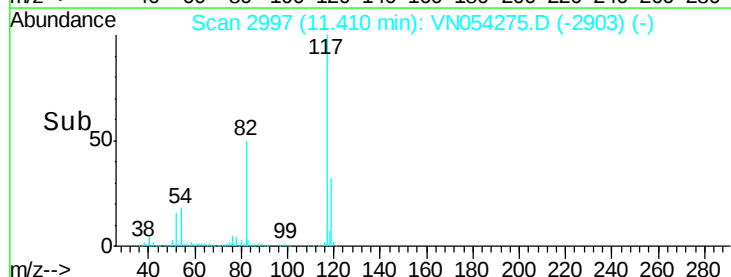


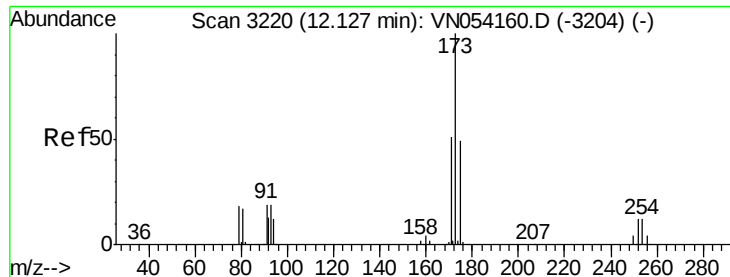
Abundance Ion 116.90 (116.60 to 117.60): VN054160.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN054160.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN054160.D (-2980) (-)

11.41





#71

Bromoform

Concen: 2.733 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN054275.D

Acq: 14 Mar 2019 21:16

Instrument :

MSVOA_N

ClientSampled :

MW-4

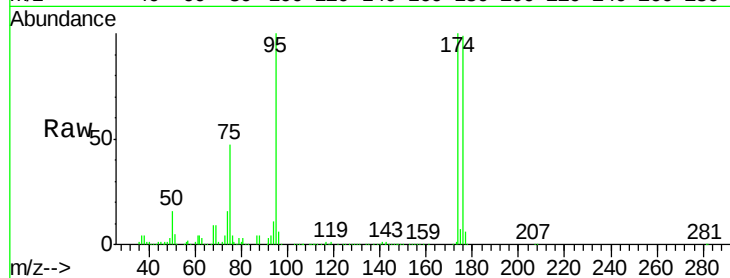
Tot Ion:173 Resp: 5598

Ion Ratio Lower Upper

173 100

175 1068.5 24.4 73.2#

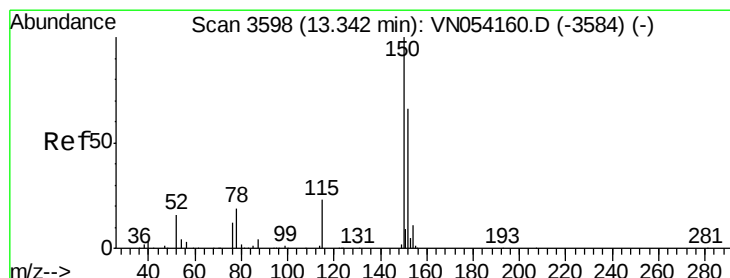
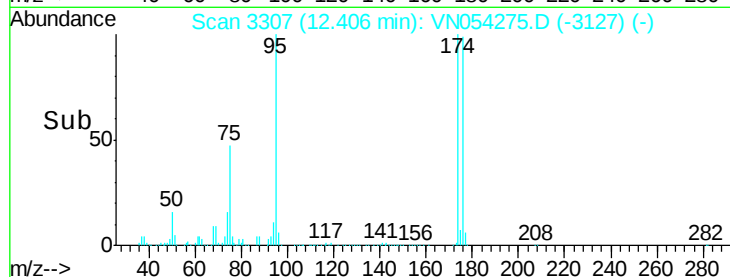
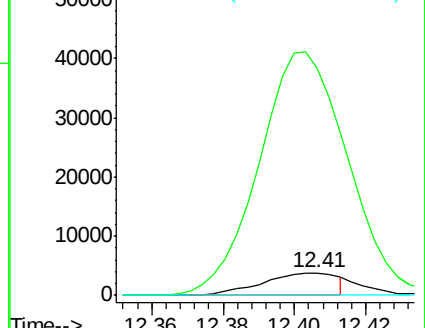
254 0.0 0.1 0.1#



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: VN054275.D

Acq: 14 Mar 2019 21:16

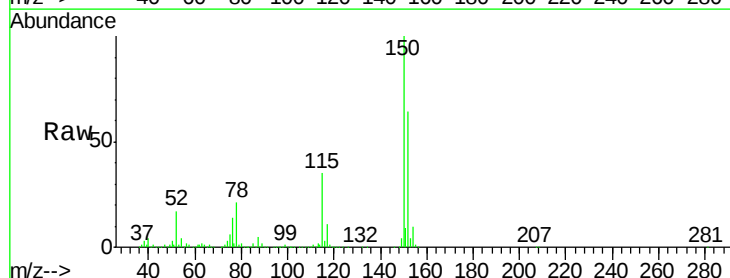
Tgt Ion:152 Resp: 872909

Ion Ratio Lower Upper

152 100

115 54.2 27.2 81.6

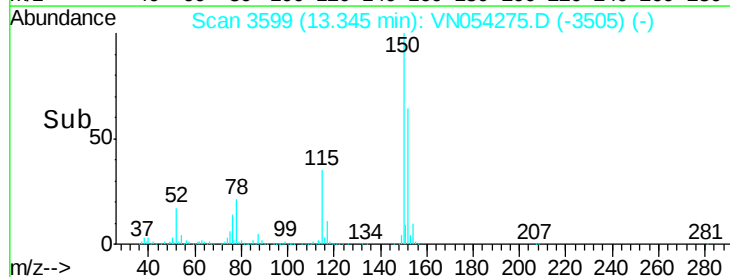
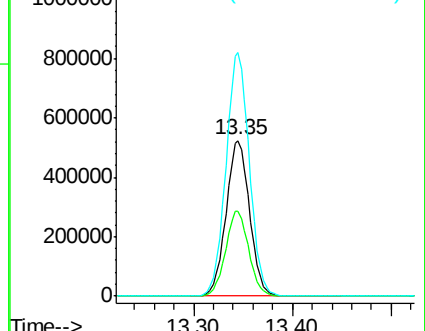
150 156.1 0.0 349.2

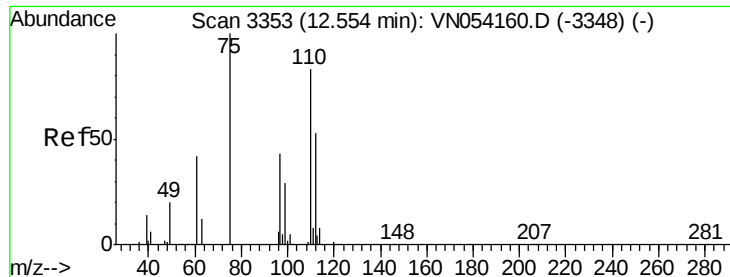


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 36.528 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN054275.D

Acq: 14 Mar 2019 21:16

Instrument :

MSVOA_N

ClientSampled :

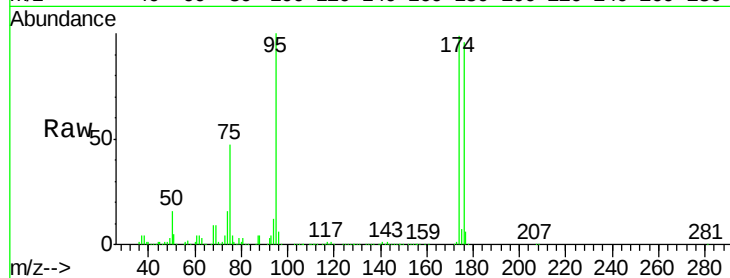
MW-4

Tot Ion: 75 Resp: 468893

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.40

250000

200000

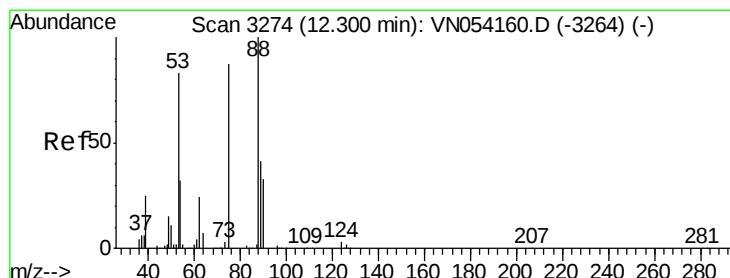
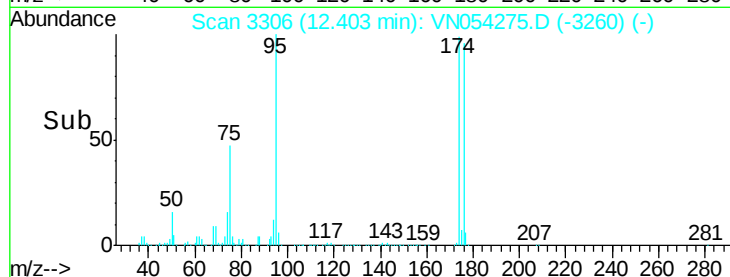
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 124.869 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN054275.D

Acq: 14 Mar 2019 21:16

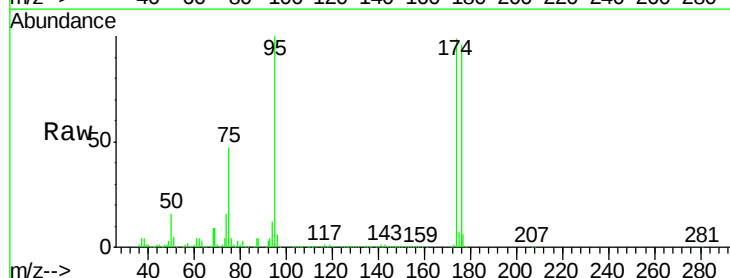
Tgt Ion: 75 Resp: 468893

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#



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

12.40

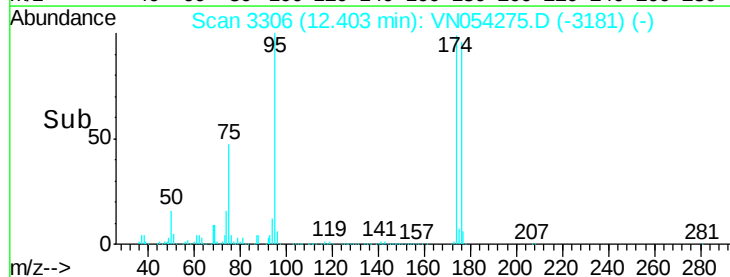
300000

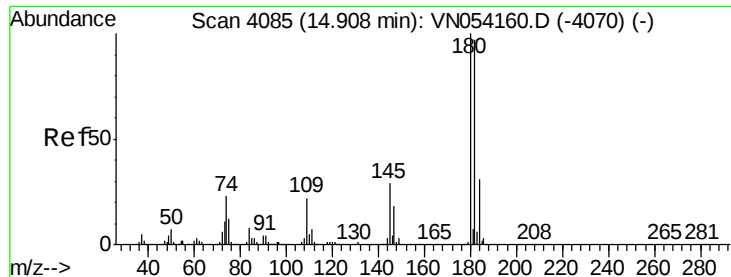
200000

100000

0

Time--> 12.30 12.40 12.50





#93

1,2,4-Trichlorobenzene

Concen: 2.523 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN054275.D

Acq: 14 Mar 2019 21:16

Instrument :

MSVOA_N

ClientSampled :

MW-4

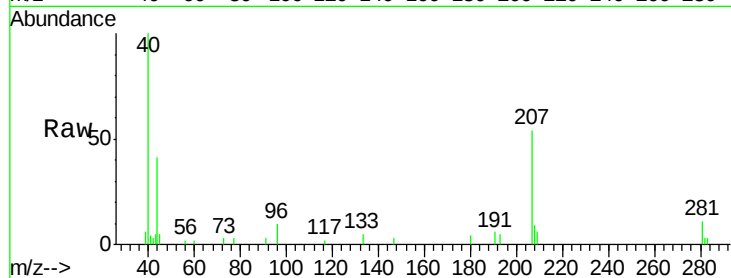
Tot Ion:180 Resp: 128

Ion Ratio Lower Upper

180 100

182 0.0 48.0 144.2#

145 23.4 14.2 42.8

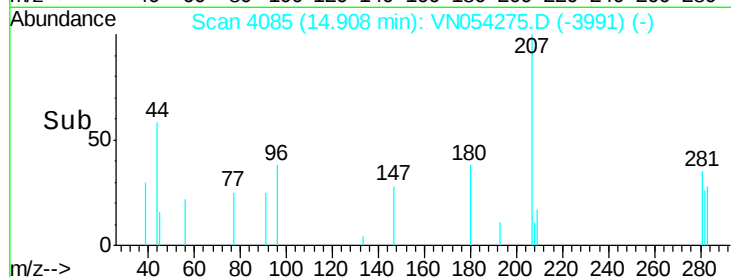


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

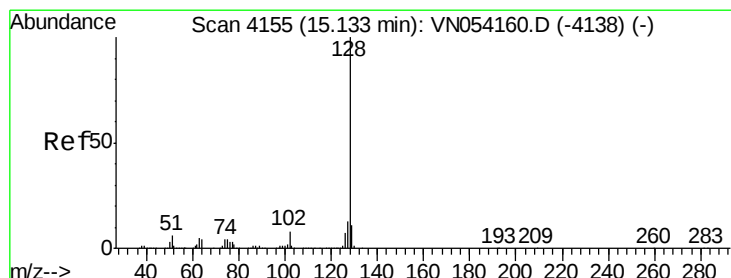
Ion 144.80 (144.50 to 145.50): V

Time-->



Abundance

Time-->



#95

Naphthalene

Concen: 4.181 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN054275.D

Acq: 14 Mar 2019 21:16

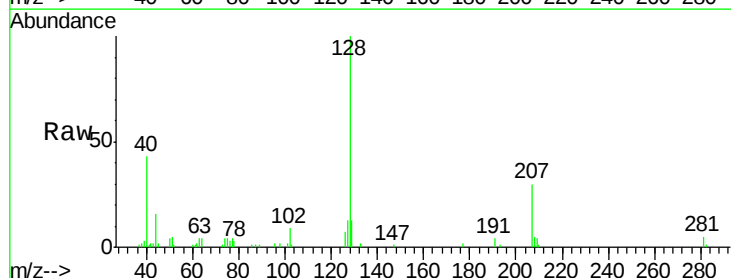
Tgt Ion:128 Resp: 29249

Ion Ratio Lower Upper

128 100

127 12.5 10.1 15.1

129 13.1 8.7 13.1#

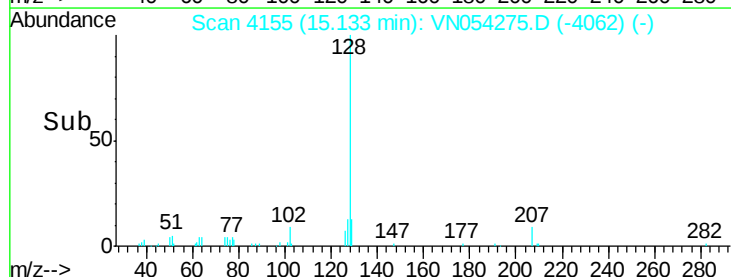


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

Time-->



Time-->