

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032219\
 Data File : VN054564.D
 Acq On : 22 Mar 2019 18:05
 Operator : JC/SP
 Sample : K1965-06RE
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-HN-MW24IR-20190315

Quant Time: Mar 23 02:33:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	620532	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	991302	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	802083	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	272809	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	432942	56.09	ug/l	0.00
Spiked Amount			Recovery	=	112.18%	
35) Dibromofluoromethane	7.59	113	336998	52.77	ug/l	0.00
Spiked Amount			Recovery	=	105.54%	
50) Toluene-d8	10.09	98	1262898	52.60	ug/l	0.00
Spiked Amount			Recovery	=	105.20%	
62) 4-Bromofluorobenzene	12.40	95	373184	45.68	ug/l	0.00
Spiked Amount			Recovery	=	91.36%	

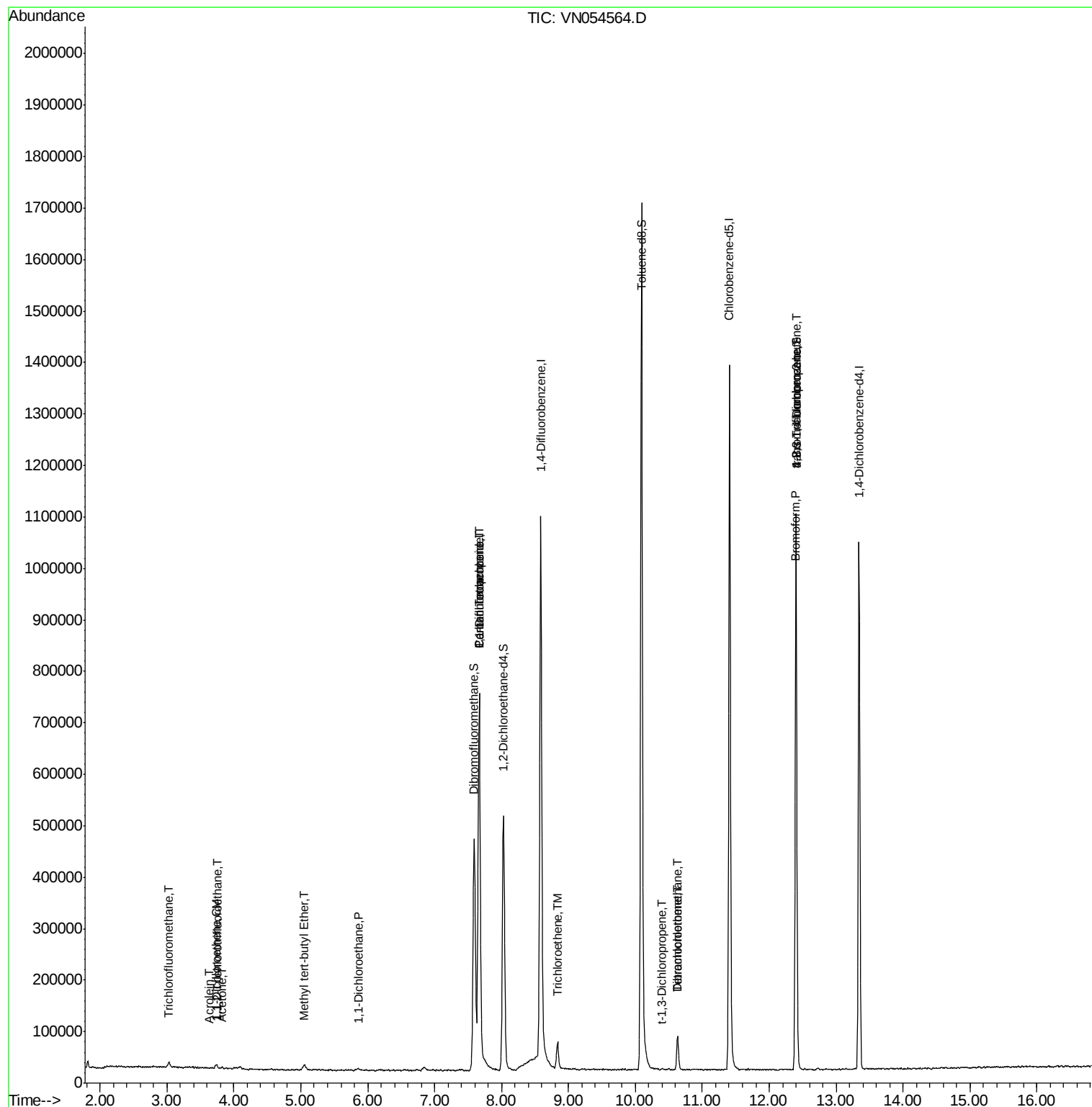
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
7) Trichlorofluoromethane	3.03	101	8517	0.865	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	1225	0.212	ug/l #	58
12) 1,1-Dichloroethene	3.73	96	1650	0.276	ug/l	91
13) Acrolein	3.63	56	178	0.276	ug/l #	14
16) Acetone	3.82	43	3426	1.476	ug/l	95
19) Methyl tert-butyl Ether	5.05	73	13891	0.795	ug/l	95
24) 1,1-Dichloroethane	5.85	63	4940	0.413	ug/l #	81
31) Cyclohexane	7.66	56	13697	Below Cal	#	5
36) 1,1-Dichloropropene	7.66	75	47151	5.087	ug/l #	47
38) Carbon Tetrachloride	7.66	117	57226	6.353	ug/l #	16
44) Trichloroethene	8.84	130	20044	2.720	ug/l	88
53) t-1,3-Dichloropropene	10.39	75	30	2.235	ug/l #	42
60) Dibromochloromethane	10.63	129	14568	2.336	ug/l #	11
64) Tetrachloroethene	10.63	164	16056	2.413	ug/l	97
71) Bromoform	12.38	173	170	2.261	ug/l #	28
76) 1,2,3-Trichloropropane	12.40	75	195347	45.125	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	195347	148.864	ug/l #	11
94) Hexachlorobutadiene	15.01	225	30	Below Cal	#	19

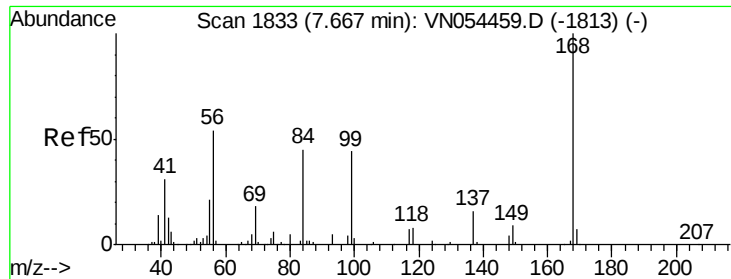
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Mar 22 02:09:07 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: VN054564.D

Acq: 22 Mar 2019 18:05

Instrument :

MSVOA_N

ClientSampleId :

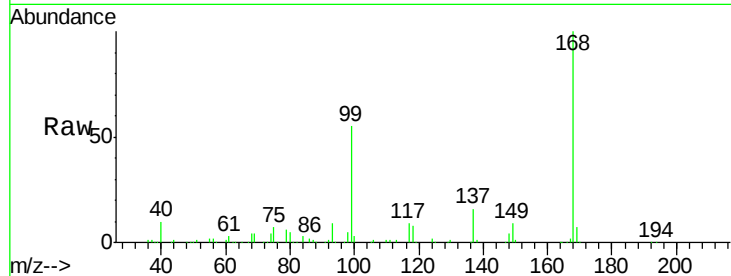
BP-HN-MW24IR-20190315

Tot Ion:168 Resp: 620532

Ion Ratio Lower Upper

168 100

99 54.6 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

250000

200000

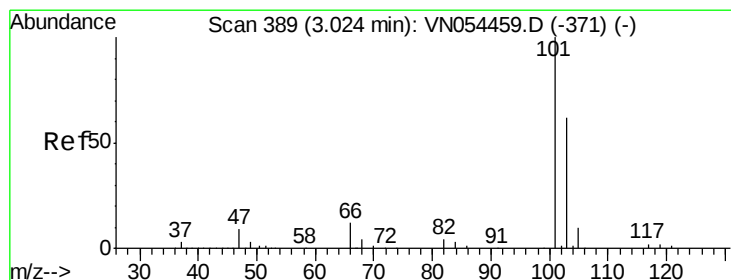
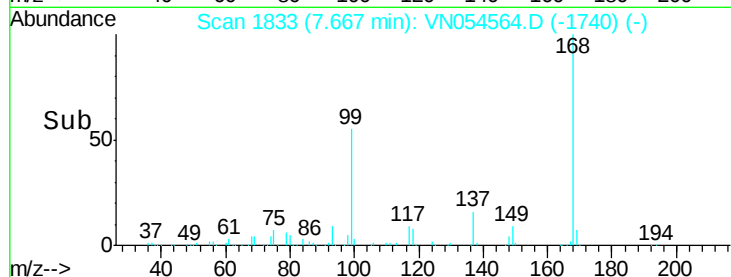
150000

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#7

Trichlorofluoromethane

Concen: 0.865 ug/l

RT: 3.03 min Scan# 390

Delta R.T. 0.00 min

Lab File: VN054564.D

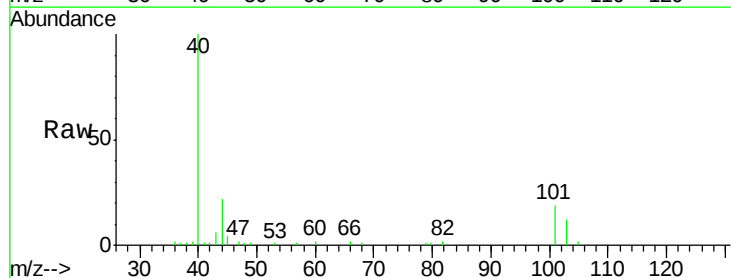
Acq: 22 Mar 2019 18:05

Tgt Ion:101 Resp: 8517

Ion Ratio Lower Upper

101 100

103 63.1 51.4 77.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

3.03

4000

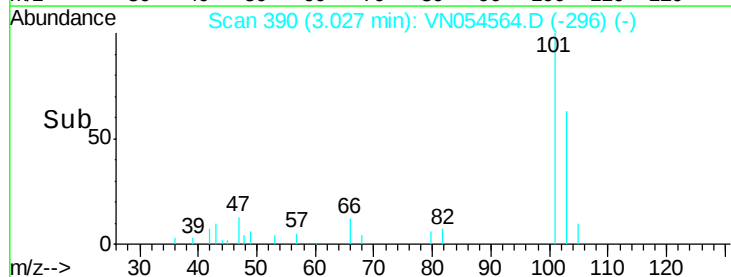
3000

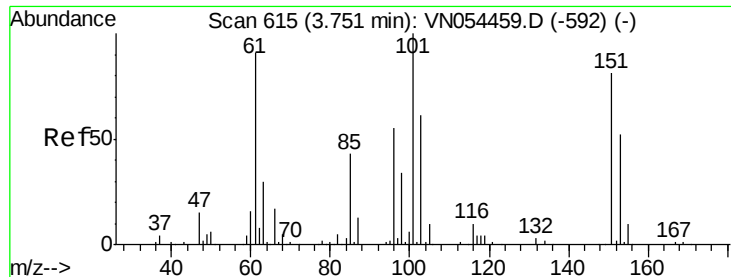
2000

1000

0

Time--> 2.95 3.00 3.05 3.10





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.212 ug/l

RT: 3.76 min Scan# 617

Delta R.T. 0.01 min

Lab File: VN054564.D

Acq: 22 Mar 2019 18:05

Instrument :

MSVOA_N

ClientSampleId :

BP-HN-MW24IR-20190315

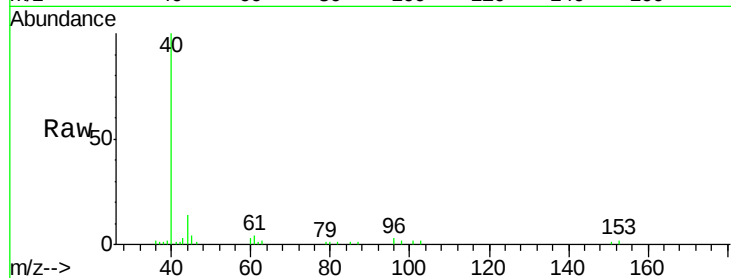
Tot Ion:101 Resp: 1225

Ion Ratio Lower Upper

101 100

85 29.5 32.4 48.6#

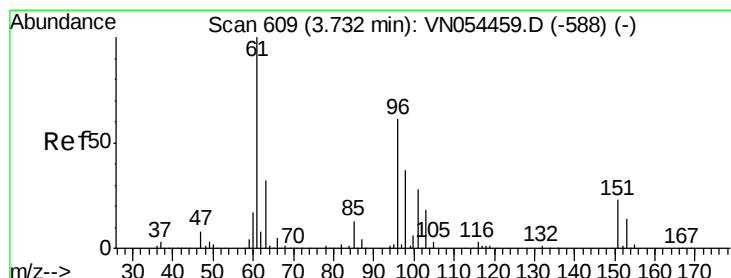
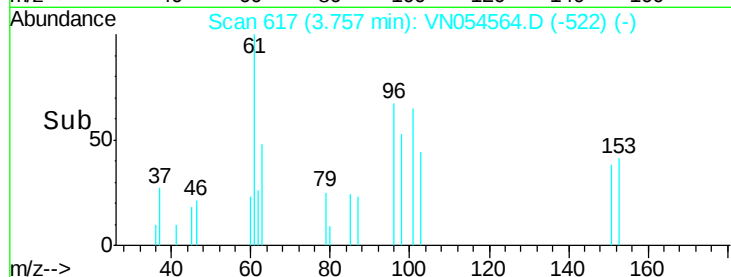
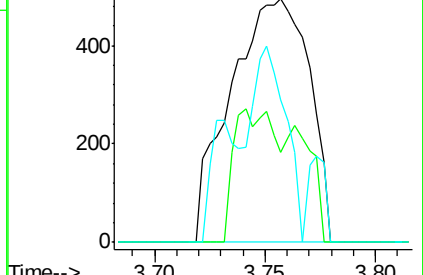
151 36.2 68.2 102.2#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VNO

Ion 150.80 (150.50 to 151.50): V



#12

1,1-Dichloroethene

Concen: 0.276 ug/l

RT: 3.73 min Scan# 607

Delta R.T. -0.01 min

Lab File: VN054564.D

Acq: 22 Mar 2019 18:05

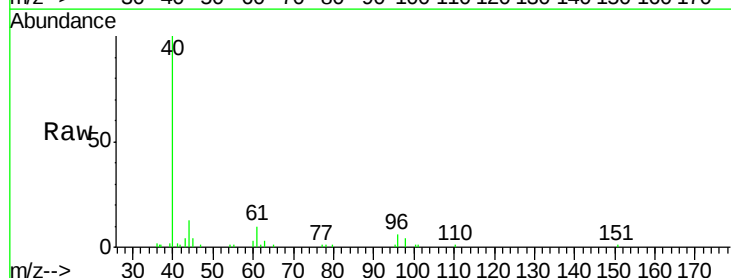
Tgt Ion: 96 Resp: 1650

Ion Ratio Lower Upper

96 100

61 161.9 116.5 174.7

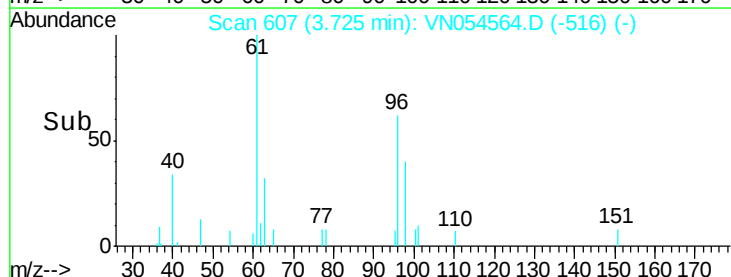
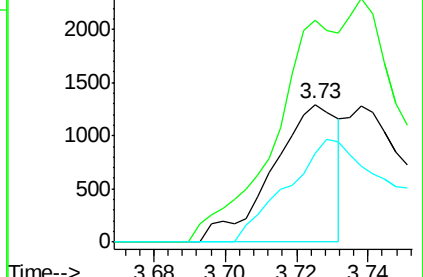
98 64.5 51.0 76.4

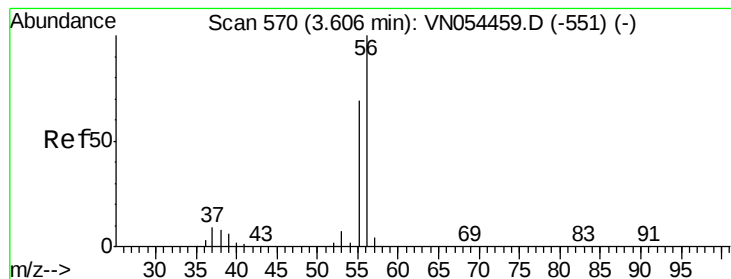


Abundance Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO





#13

Acrolein

Concen: 0.276 ug/l

RT: 3.63 min Scan# 578

Delta R.T. 0.03 min

Lab File: VN054564.D

Acq: 22 Mar 2019 18:05

Instrument :

MSVOA_N

ClientSampleId :

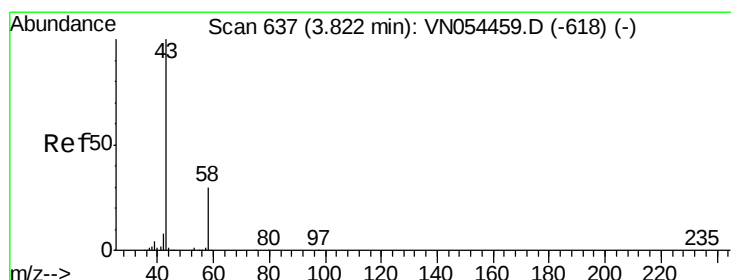
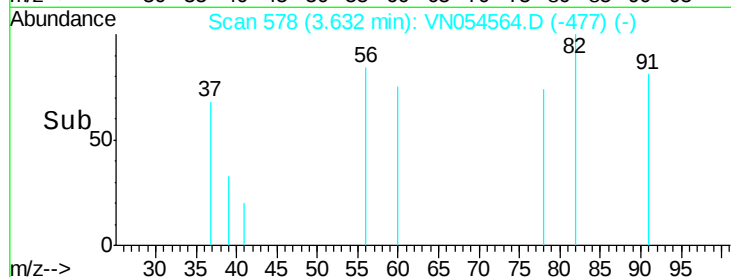
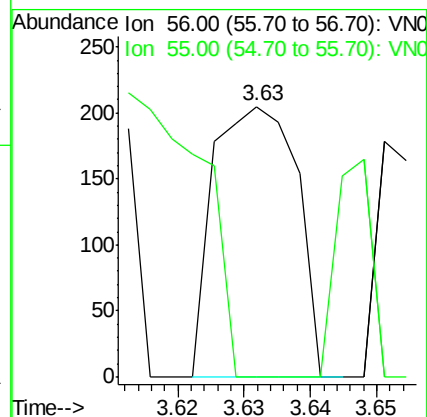
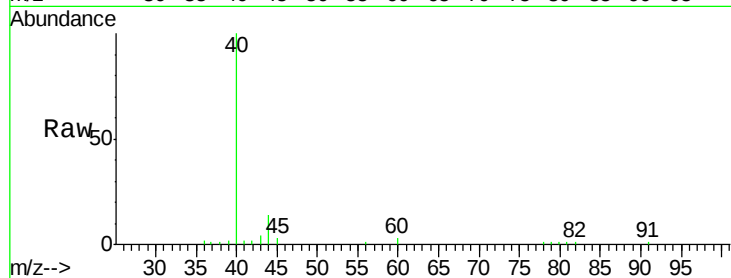
BP-HN-MW24IR-20190315

Tot Ion: 56 Resp: 178

Ion Ratio Lower Upper

56 100

55 0.0 56.7 85.1#



#16

Acetone

Concen: 1.476 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN054564.D

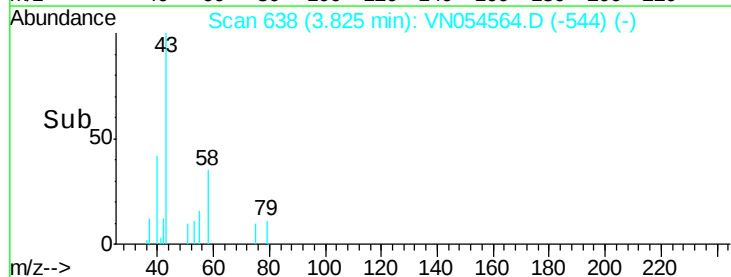
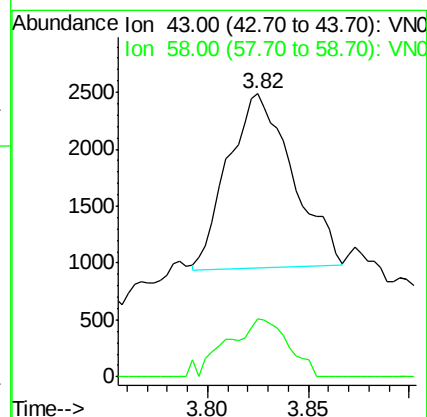
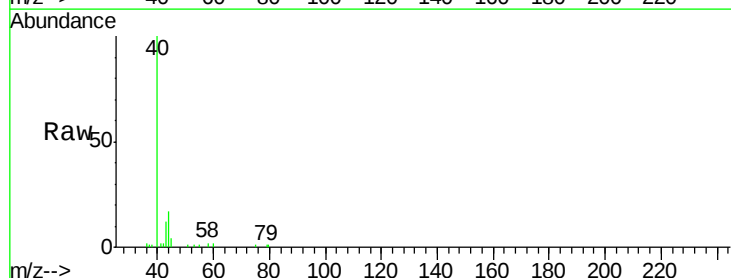
Acq: 22 Mar 2019 18:05

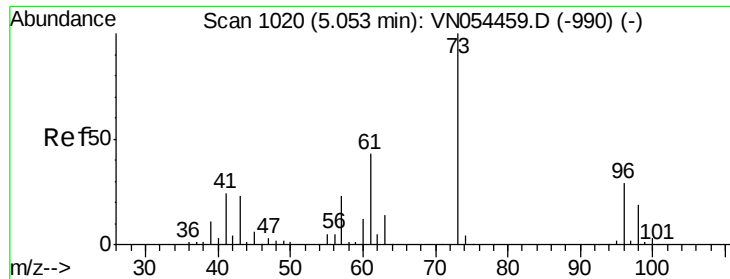
Tgt Ion: 43 Resp: 3426

Ion Ratio Lower Upper

43 100

58 34.1 29.9 44.9

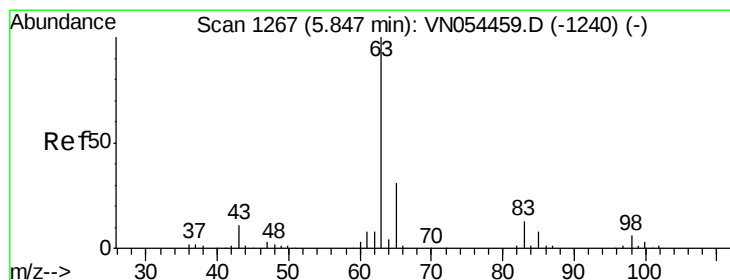
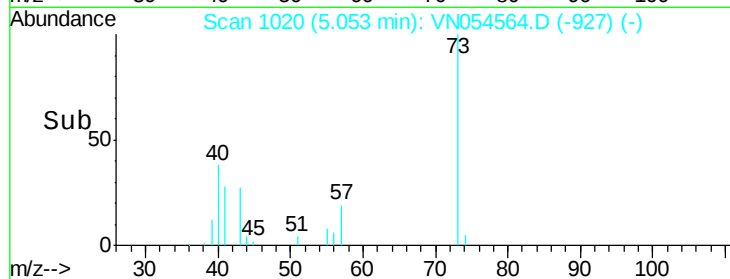
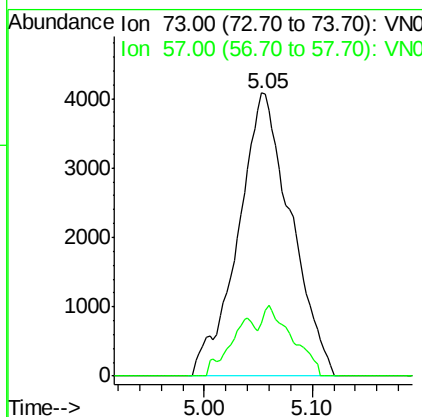
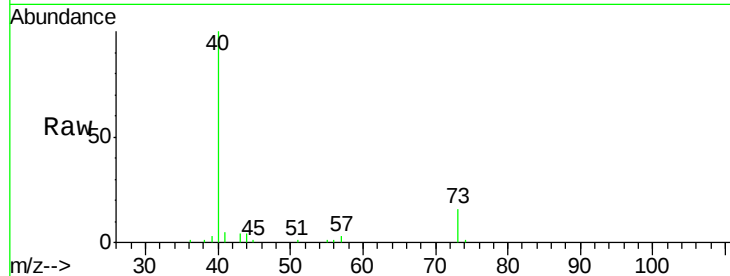




#19
Methvl tert-butvl Ether
Concen: 0.795 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VN054564.D
Acq: 22 Mar 2019 18:05

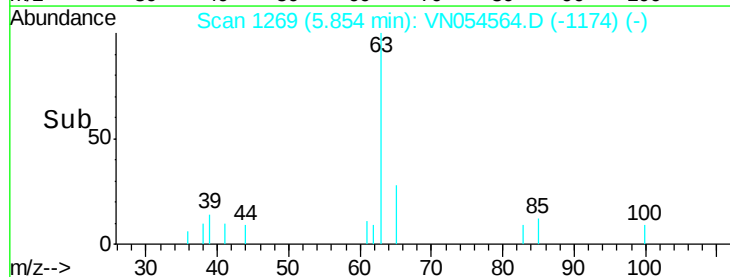
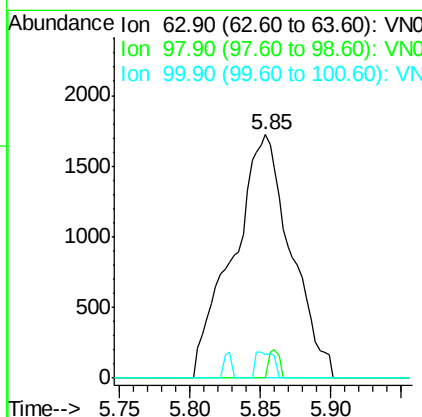
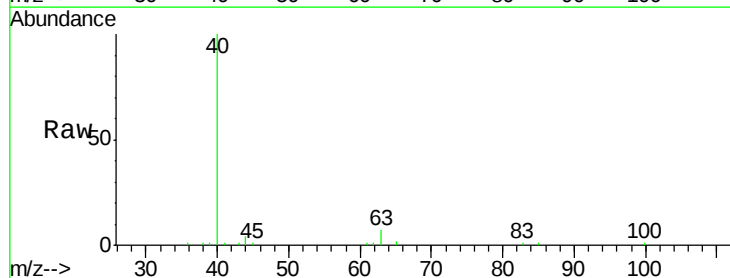
Instrument :
MSVOA_N
ClientSampleId :
BP-HN-MW24IR-20190315

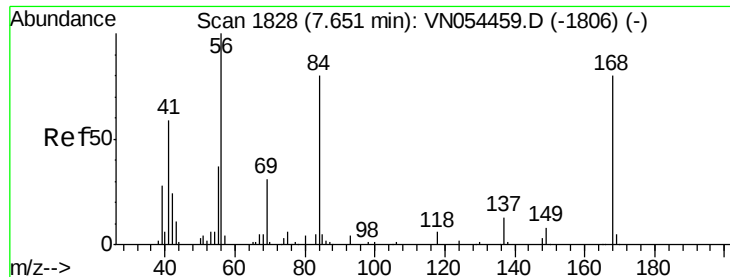
Tot Ion: 73 Resp: 13891
Ion Ratio Lower Upper
73 100
57 18.5 16.8 25.2



#24
1,1-Dichloroethane
Concen: 0.413 ug/l
RT: 5.85 min Scan# 1269
Delta R.T. 0.01 min
Lab File: VN054564.D
Acq: 22 Mar 2019 18:05

Tgt Ion: 63 Resp: 4940
Ion Ratio Lower Upper
63 100
98 0.0 3.5 10.5#
100 9.4 2.0 6.0#





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN054564.D

Acq: 22 Mar 2019 18:05

Instrument :

MSVOA_N

ClientSampleId :

BP-HN-MW24IR-20190315

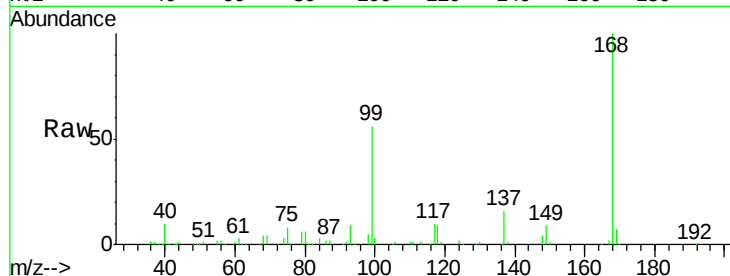
Tot Ion: 56 Resp: 13697

Ion Ratio Lower Upper

56 100

69 173.6 27.8 41.6#

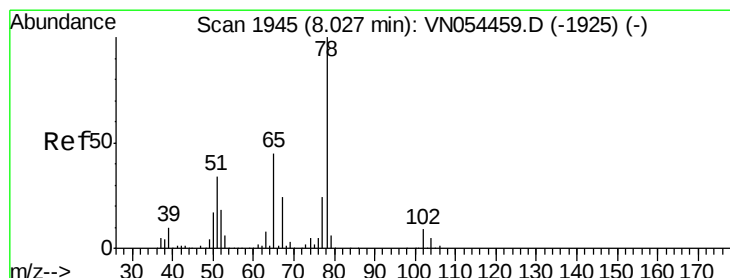
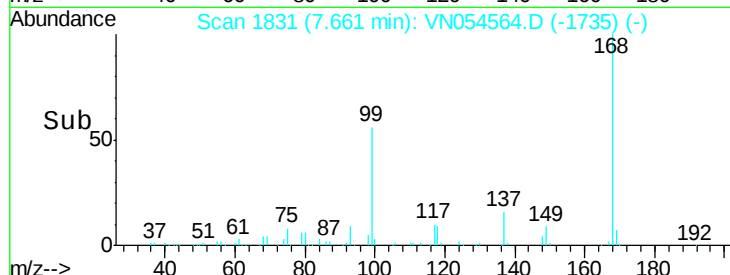
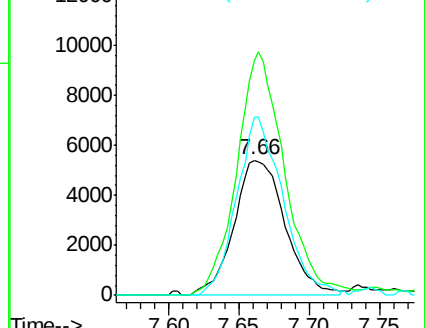
84 132.2 74.6 111.8#



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: 56.092 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN054564.D

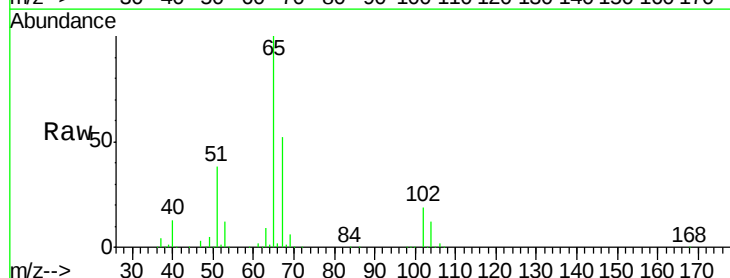
Acq: 22 Mar 2019 18:05

Tgt Ion: 65 Resp: 432942

Ion Ratio Lower Upper

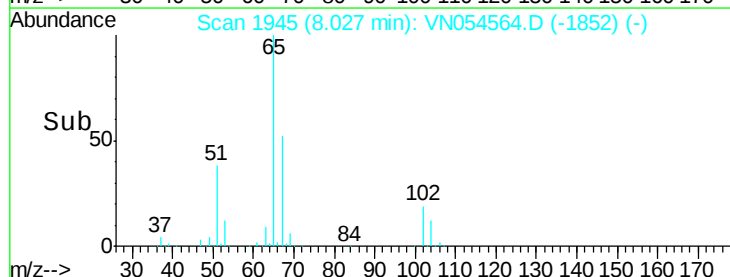
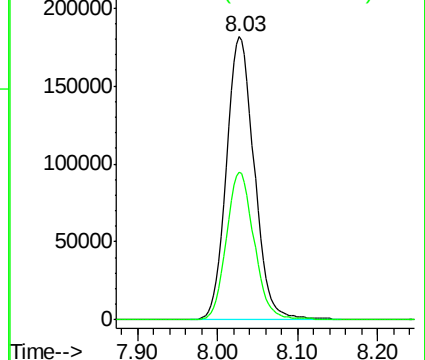
65 100

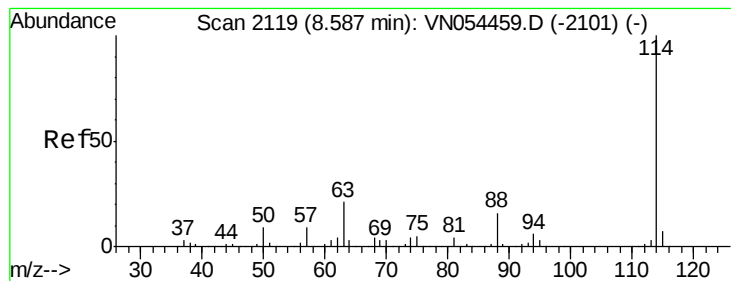
67 52.1 0.0 104.6



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: VN054564.D

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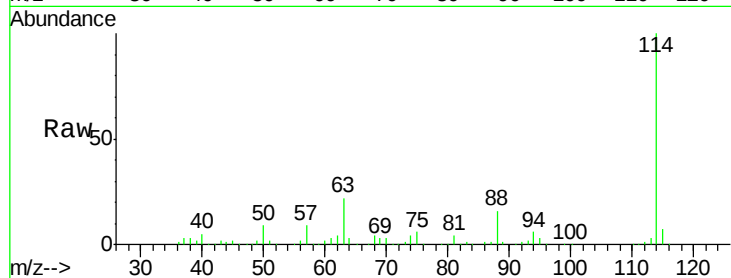
Tot Ion:114 Resp: 991302

Ion Ratio Lower Upper

114 100

63 21.9 0.0 35.2

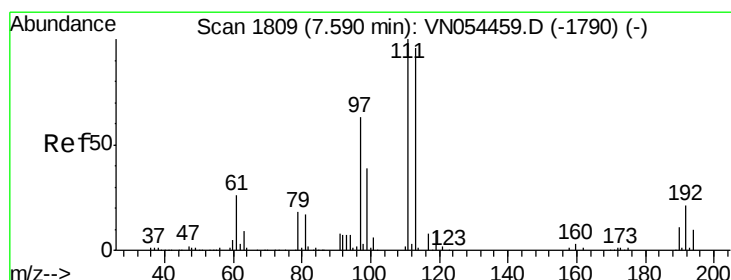
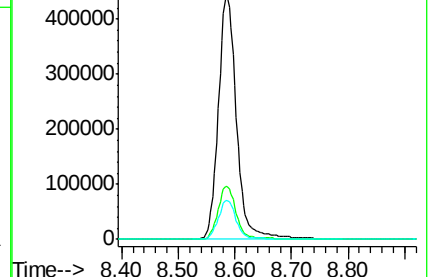
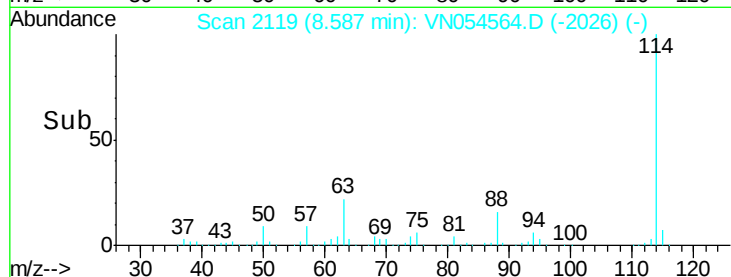
88 16.1 0.0 30.2



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: 52.768 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054564.D

Acq: 22 Mar 2019 18:05

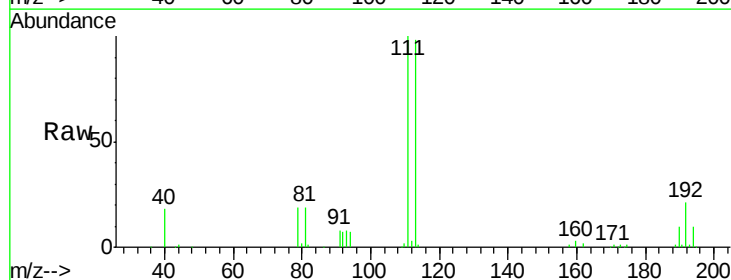
Tgt Ion:113 Resp: 336998

Ion Ratio Lower Upper

113 100

111 102.2 82.2 123.4

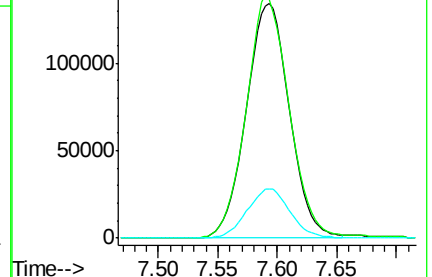
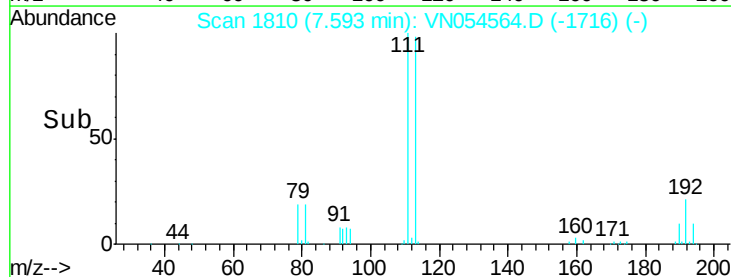
192 20.9 19.2 28.8

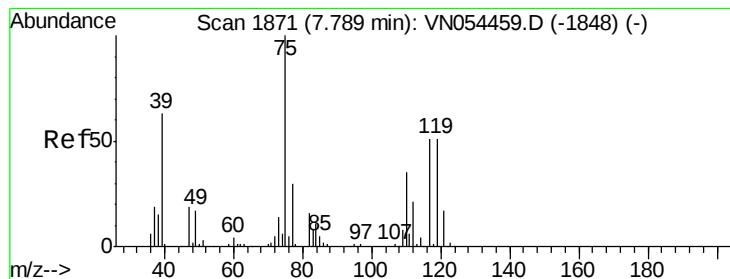


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.087 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054564.D

Acq: 22 Mar 2019 18:05

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MSVOA_N

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BP-HN-MW24IR-20190315

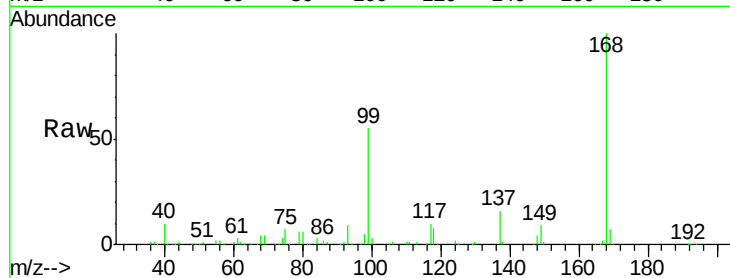
Tot Ion: 75 Resp: 47151

Ion Ratio Lower Upper

75 100

110 8.3 19.1 57.5#

77 0.0 25.0 37.4#

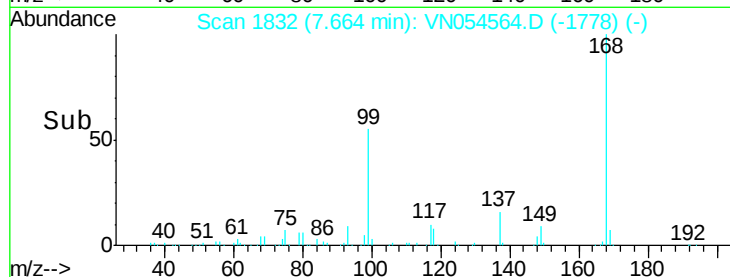


Abundance Ion 74.90 (74.60 to 75.60): VN054459.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN054459.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN054459.D (-1848) (-)

Time-->

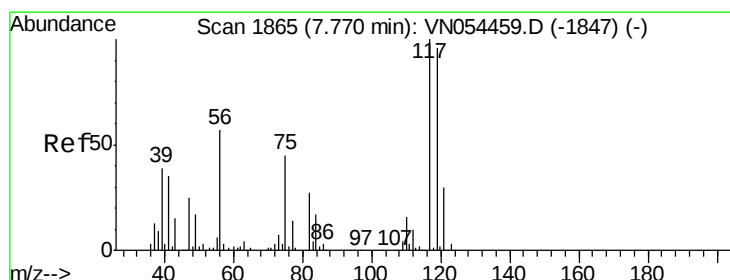


Abundance Ion 74.90 (74.60 to 75.60): VN054564.D (-1778) (-)

Ion 109.90 (109.60 to 110.60): VN054564.D (-1778) (-)

Ion 76.90 (76.60 to 77.60): VN054564.D (-1778) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 6.353 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054564.D

Acq: 22 Mar 2019 18:05

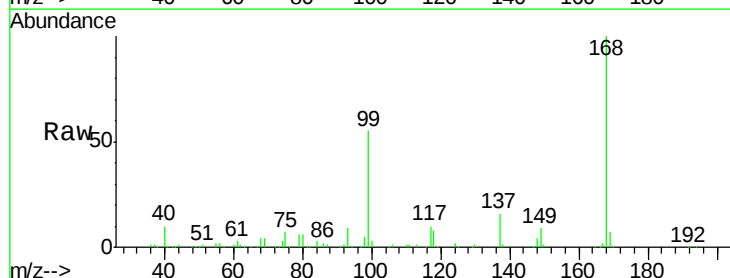
Tgt Ion: 117 Resp: 57226

Ion Ratio Lower Upper

117 100

119 4.7 76.3 114.5#

121 0.0 24.6 36.8#

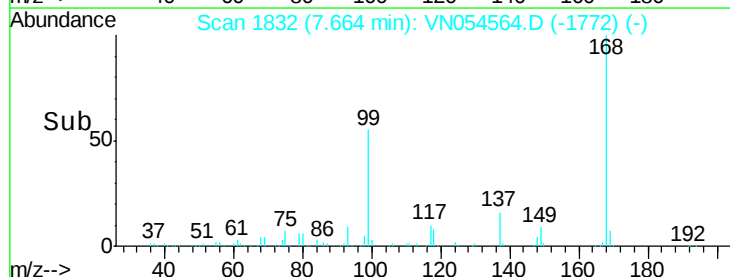


Abundance Ion 116.80 (116.50 to 117.50): VN054459.D (-1847) (-)

Ion 118.80 (118.50 to 119.50): VN054459.D (-1847) (-)

Ion 120.80 (120.50 to 121.50): VN054459.D (-1847) (-)

Time-->

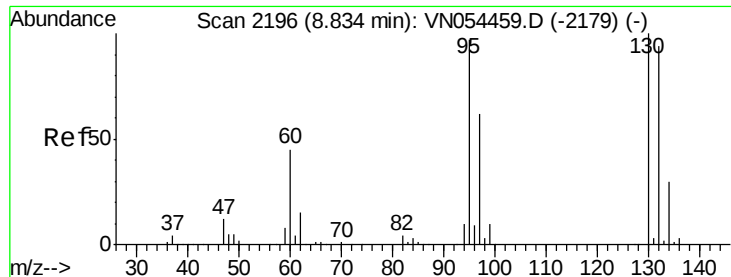


Abundance Ion 116.80 (116.50 to 117.50): VN054564.D (-1772) (-)

Ion 118.80 (118.50 to 119.50): VN054564.D (-1772) (-)

Ion 120.80 (120.50 to 121.50): VN054564.D (-1772) (-)

Time-->



#44

Trichloroethene

Concen: 2.720 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN054564.D

Acq: 22 Mar 2019 18:05

Instrument :

MSVOA_N

ClientSampleId :

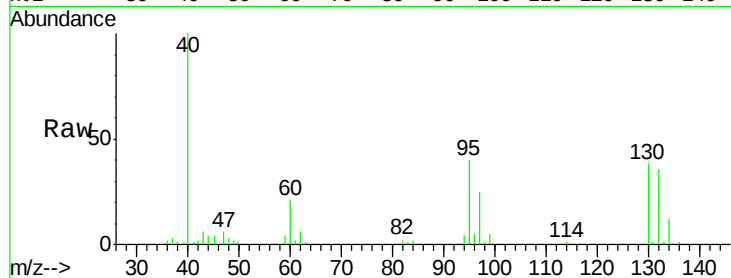
BP-HN-MW24IR-20190315

Tot Ion:130 Resp: 20044

Ion Ratio Lower Upper

130 100

95 104.3 0.0 185.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN

8.84

10000

8000

6000

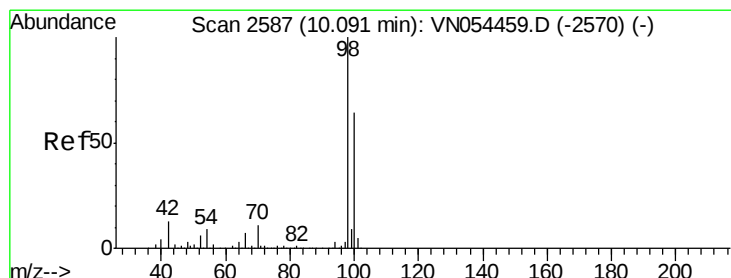
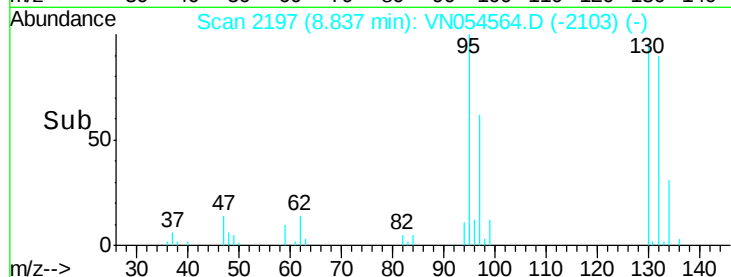
4000

2000

0

Time-->

8.75 8.80 8.85 8.90



#50

Toluene-d8

Concen: 52.601 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054564.D

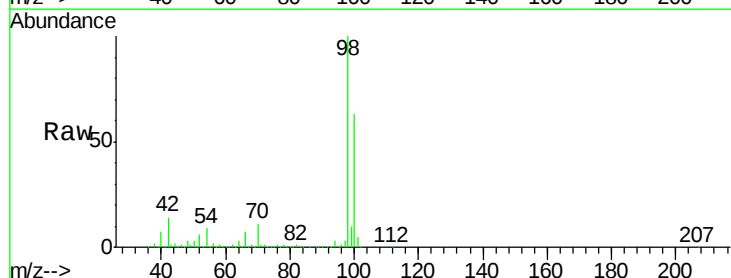
Acq: 22 Mar 2019 18:05

Tgt Ion: 98 Resp: 1262898

Ion Ratio Lower Upper

98 100

100 63.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN

10.09

600000

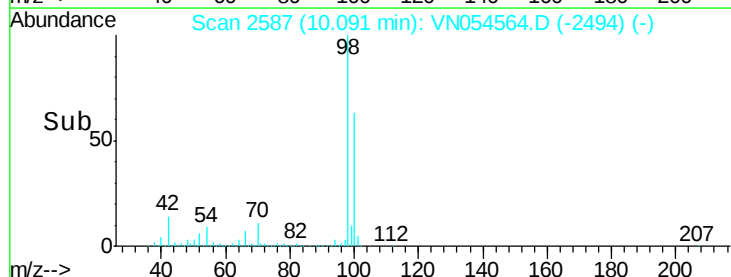
400000

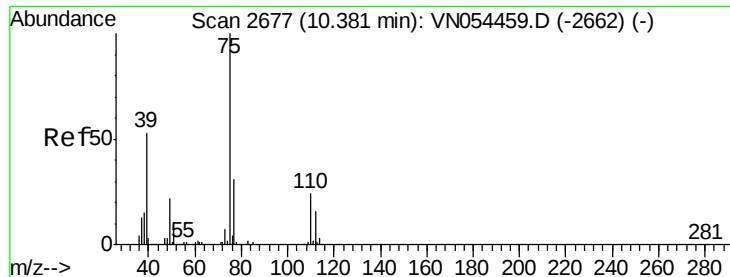
200000

0

Time-->

10.00 10.10 10.20 10.30





#53

t-1,3-Dichloropropene

Concen: 2.235 ug/l

RT: 10.39 min Scan# 2679

Delta R.T. 0.01 min

Lab File: VN054564.D

Acq: 22 Mar 2019 18:05

Instrument :

MSVOA_N

ClientSampleId :

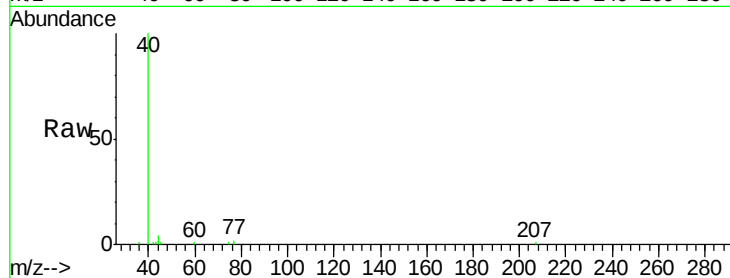
BP-HN-MW24IR-20190315

Tot Ion: 75 Resp: 30

Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN054459.D (-2662) (-)

Ion 76.90 (76.60 to 77.60): VN054459.D (-2662) (-)

600

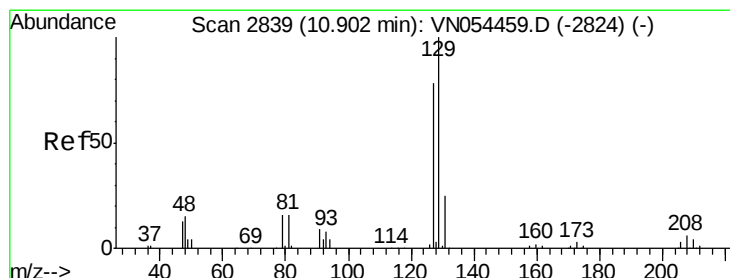
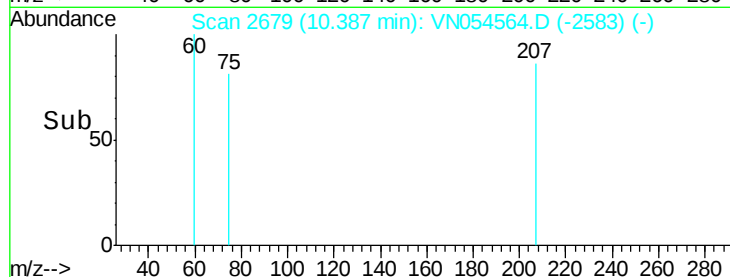
400

200

0

10.38 10.39

Time-->



#60

Dibromochloromethane

Concen: 2.336 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.27 min

Lab File: VN054564.D

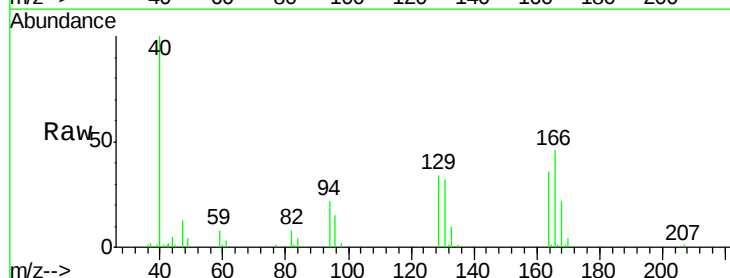
Acq: 22 Mar 2019 18:05

Tgt Ion: 129 Resp: 14568

Ion Ratio Lower Upper

129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): VN054459.D (-2824) (-)

Ion 126.80 (126.50 to 127.50): VN054459.D (-2824) (-)

8000

6000

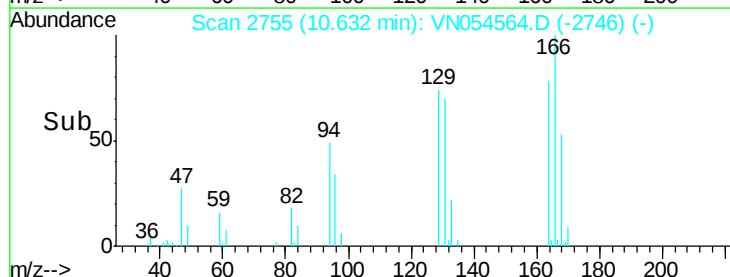
4000

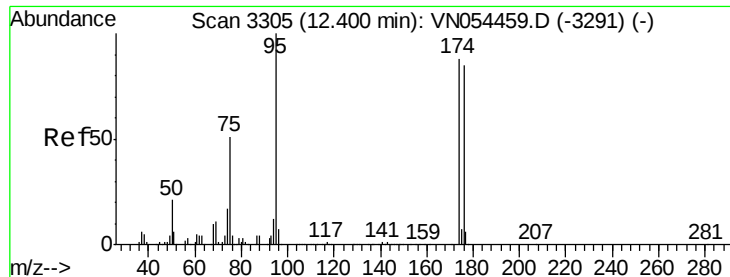
2000

0

10.60 10.63 10.70

Time-->





#62

4-Bromofluorobenzene

Concen: 45.678 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054564.D

Acq: 22 Mar 2019 18:05

Instrument :

MSVOA_N

ClientSampleId :

BP-HN-MW24IR-20190315

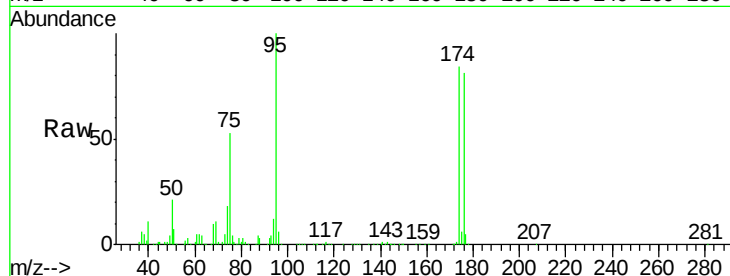
Tot Ion: 95 Resp: 373184

Ion Ratio Lower Upper

95 100

174 83.4 0.0 191.0

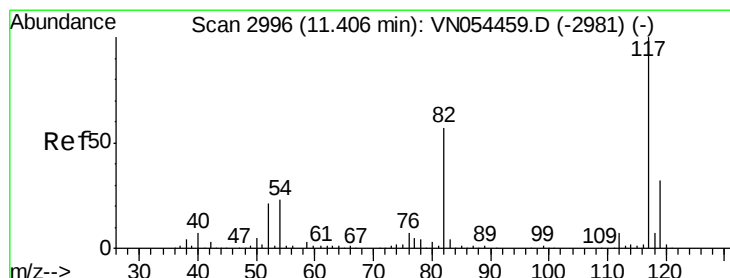
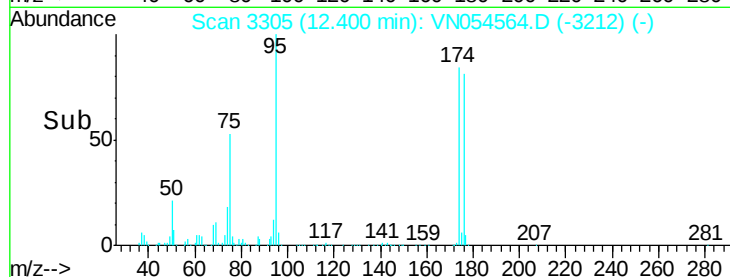
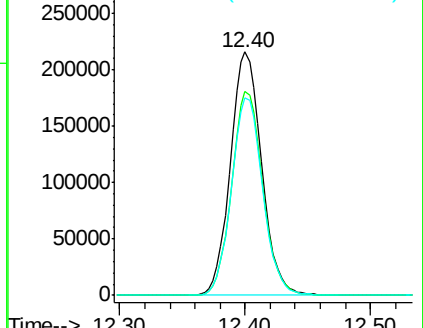
176 81.1 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054459.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN054459.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN054459.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054564.D

Acq: 22 Mar 2019 18:05

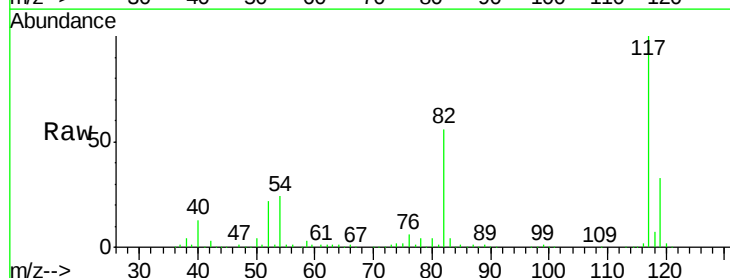
Tgt Ion: 117 Resp: 802083

Ion Ratio Lower Upper

117 100

82 55.8 40.0 60.0

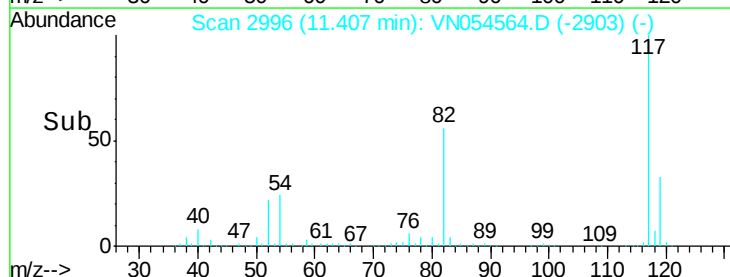
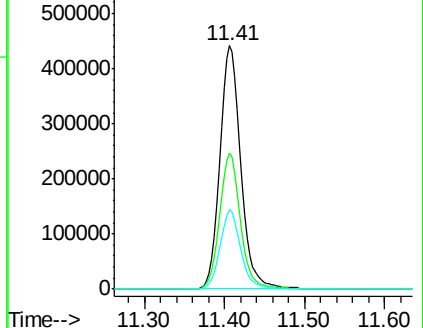
119 32.5 25.8 38.6

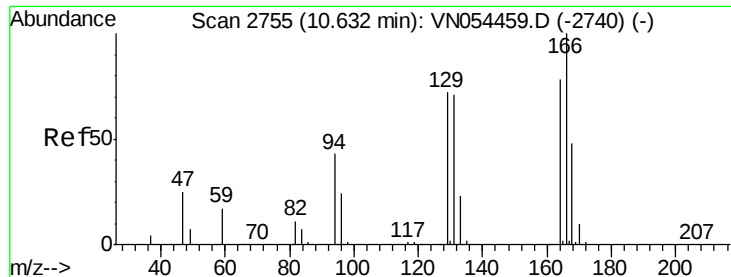


Abundance Ion 116.90 (116.60 to 117.60): VN054459.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN054459.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN054459.D (-2981) (-)





#64

Tetrachloroethene

Concen: 2.413 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.00 min

Lab File: VN054564.D

Acq: 22 Mar 2019 18:05

Instrument :

MSVOA_N

ClientSampleId :

BP-HN-MW24IR-20190315

Tot Ion:164 Resp: 16056

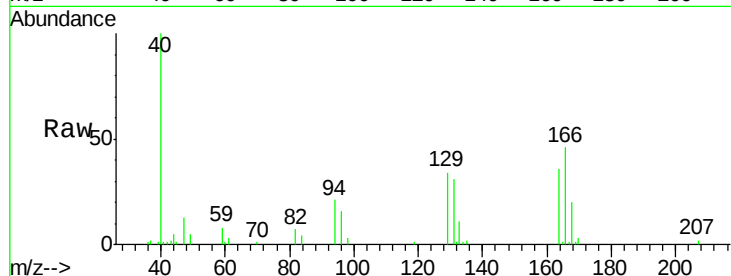
Ion Ratio Lower Upper

164 100

166 126.3 103.9 155.9

129 93.0 71.1 106.7

131 85.5 68.2 102.4

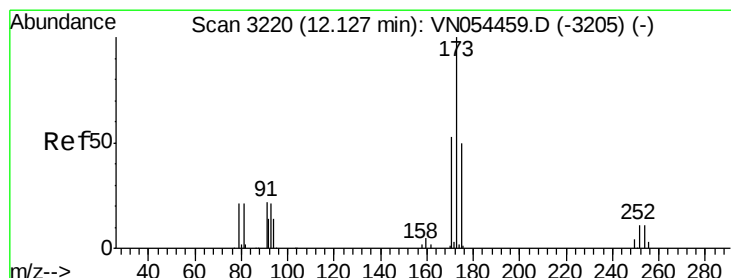
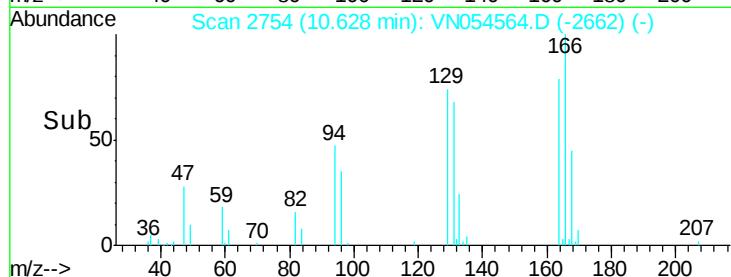
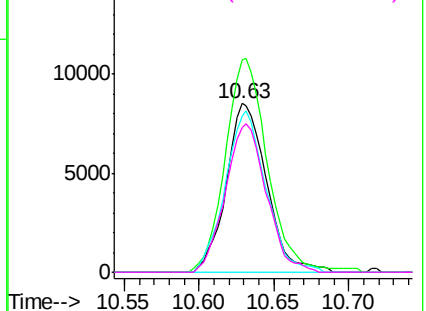


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 2.261 ug/l

RT: 12.38 min Scan# 3300

Delta R.T. 0.26 min

Lab File: VN054564.D

Acq: 22 Mar 2019 18:05

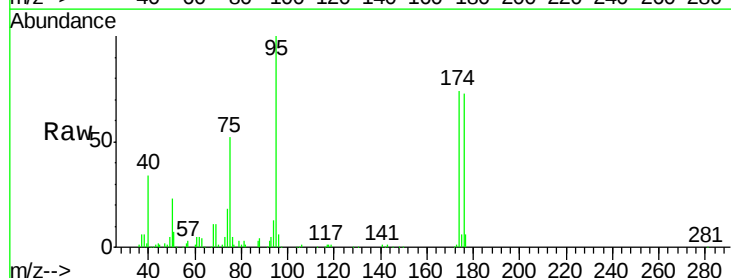
Tgt Ion:173 Resp: 170

Ion Ratio Lower Upper

173 100

175 0.0 24.4 73.2#

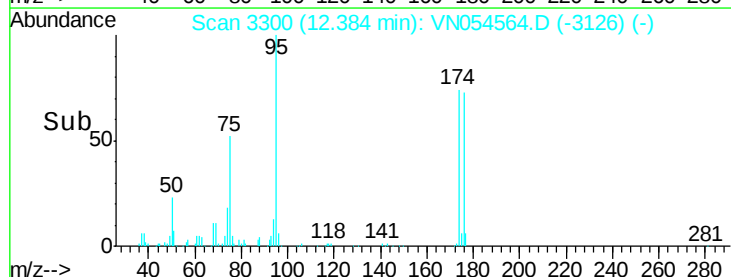
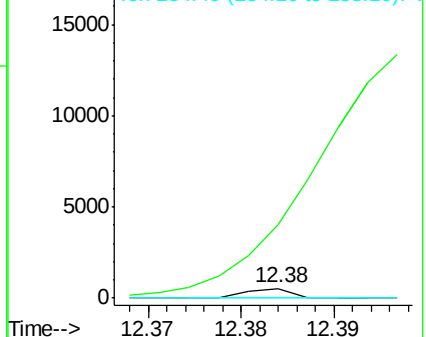
254 0.0 0.1 0.1#

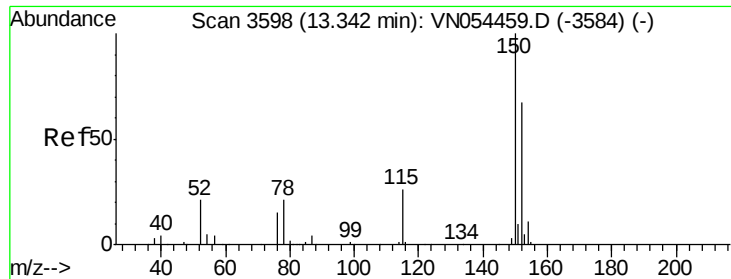


Abundance Ion 172.70 (172.40 to 173.40): V

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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054564.D

Acq: 22 Mar 2019 18:05

Instrument :

MSVOA_N

ClientSampleId :

BP-HN-MW24IR-20190315

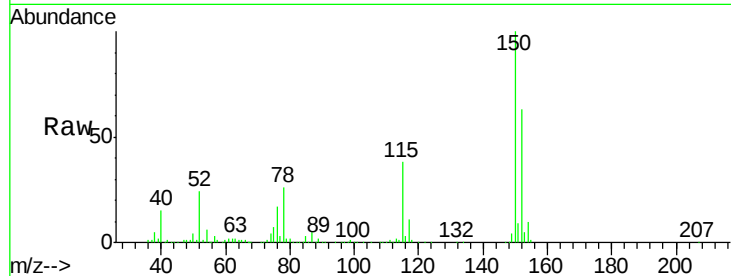
Tot Ion:152 Resp: 272809

Ion Ratio Lower Upper

152 100

115 58.7 27.2 81.6

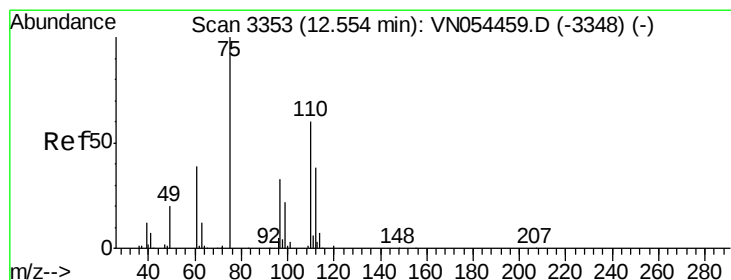
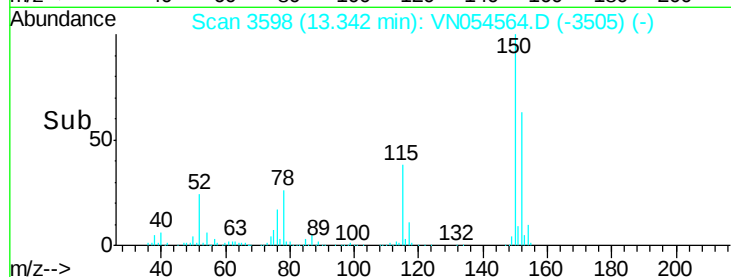
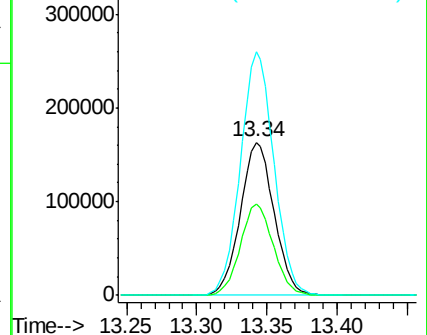
150 158.4 0.0 349.2



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: 45.125 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054564.D

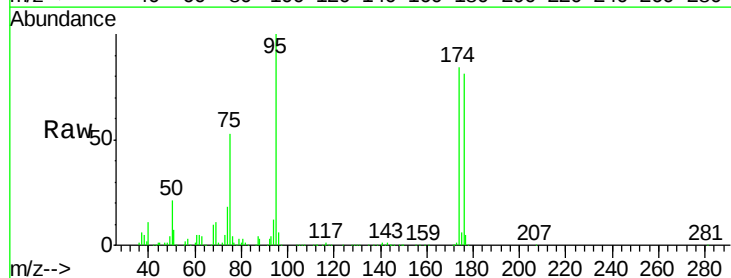
Acq: 22 Mar 2019 18:05

Tgt Ion: 75 Resp: 195347

Ion Ratio Lower Upper

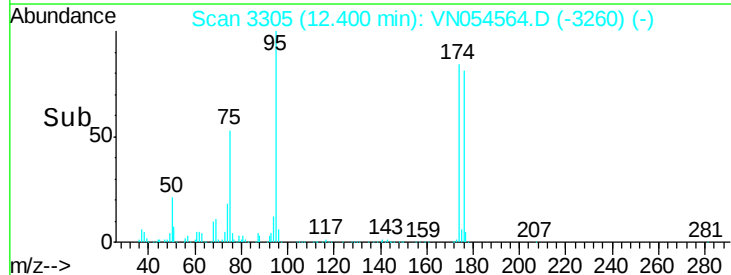
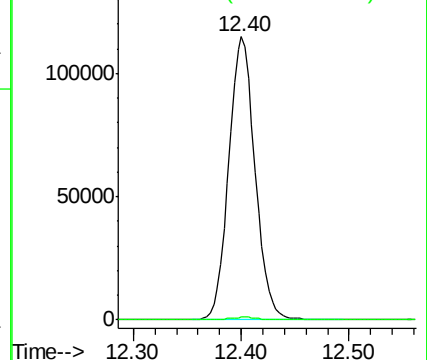
75 100

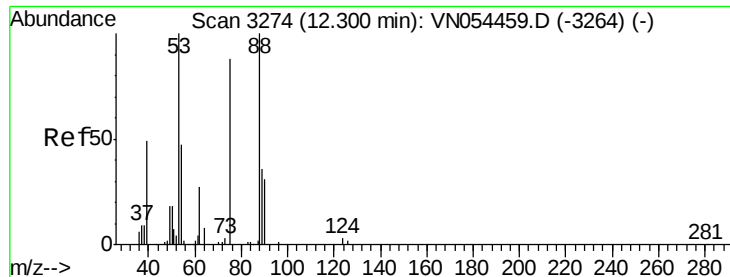
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 148.864 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054564.D

Acq: 22 Mar 2019 18:05

Instrument :

MSVOA_N

ClientSampleId :

BP-HN-MW24IR-20190315

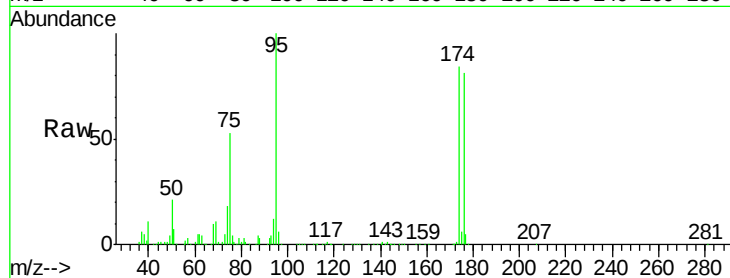
Tot Ion: 75 Resp: 195347

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

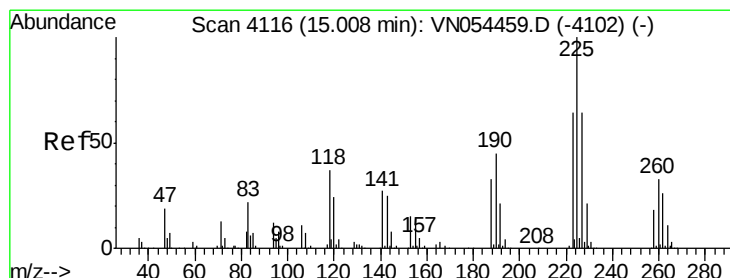
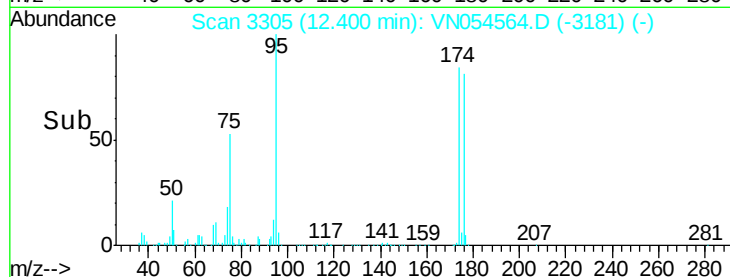
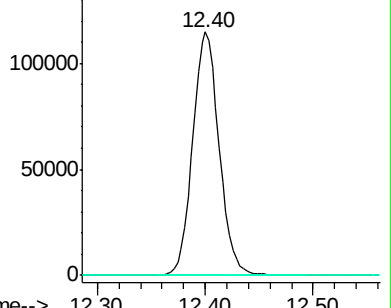
89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VN054459.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN054459.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN054459.D (-3264) (-)



#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VN054564.D

Acq: 22 Mar 2019 18:05

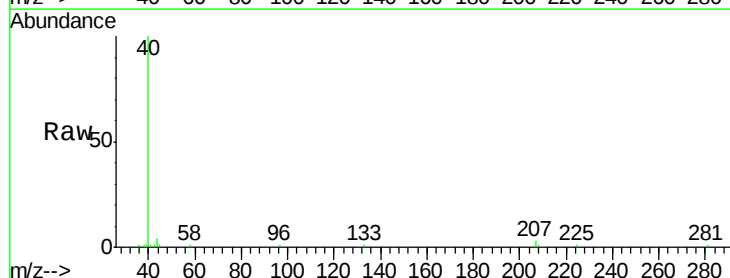
Tgt Ion: 225 Resp: 30

Ion Ratio Lower Upper

225 100

223 0.0 31.1 93.5#

227 0.0 31.9 95.9#



Abundance Ion 224.70 (224.40 to 225.40): VN054459.D (-4102) (-)

Ion 222.70 (222.40 to 223.40): VN054459.D (-4102) (-)

Ion 226.70 (226.40 to 227.40): VN054459.D (-4102) (-)

