

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122018\
 Data File : VN053078.D
 Acq On : 21 Dec 2018 1:42
 Operator : MD\SY
 Sample : J6519-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 39 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 21 02:39:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1342443	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2028892	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1779643	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	667103	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	638730	46.89	ug/l	0.00
Spiked Amount			Recovery	=	93.78%	
35) Dibromofluoromethane	7.59	113	572849	61.81	ug/l	0.00
Spiked Amount			Recovery	=	123.62%	
50) Toluene-d8	10.09	98	2465125	49.55	ug/l	0.00
Spiked Amount			Recovery	=	99.10%	
62) 4-Bromofluorobenzene	12.40	95	777057	44.49	ug/l	0.00
Spiked Amount			Recovery	=	88.98%	

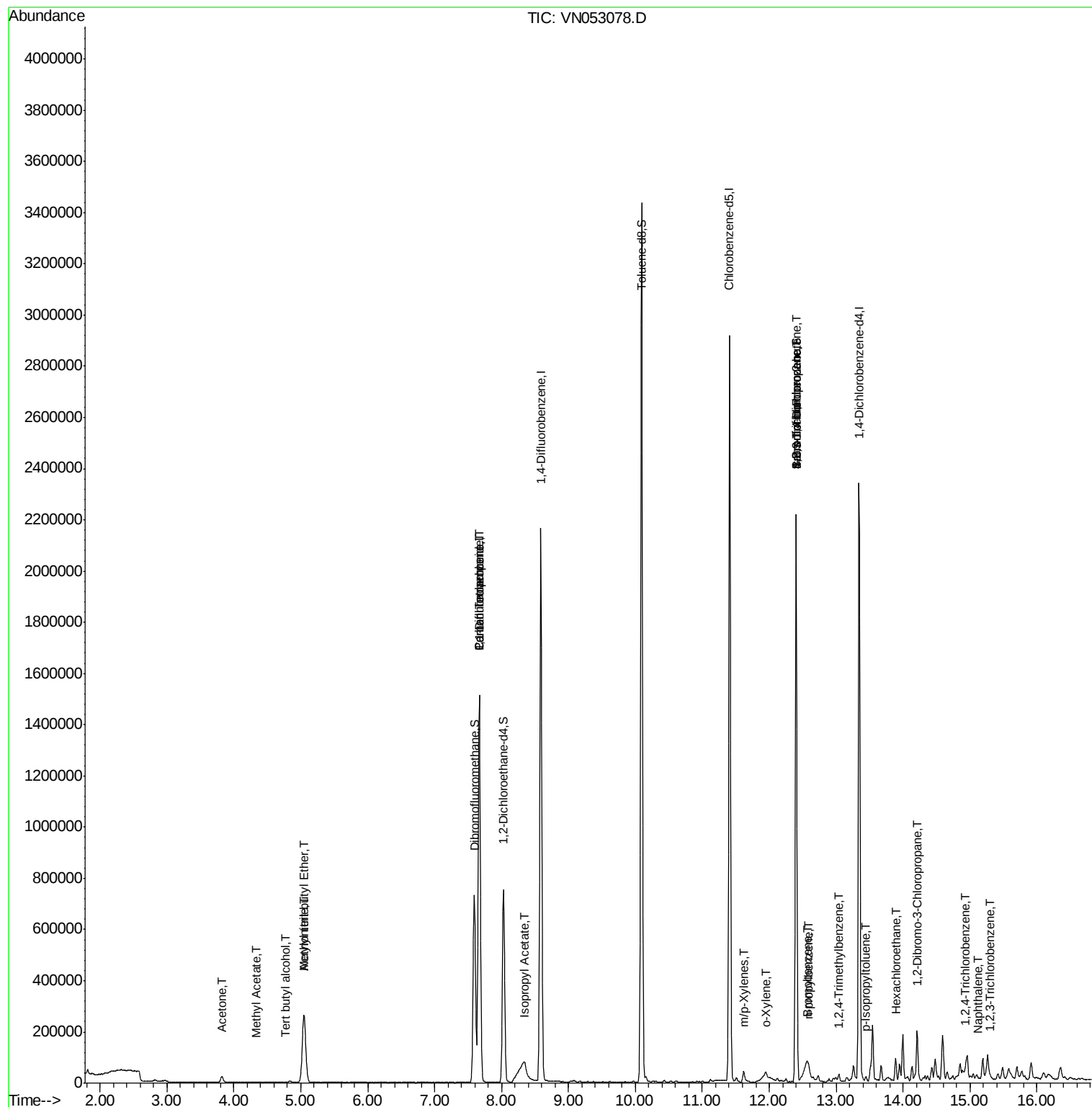
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.77	59	3230	3.886	ug/l #	74
15) Acrylonitrile	5.03	53	2207	0.478	ug/l #	1
16) Acetone	3.82	43	42775	16.014	ug/l	95
18) Methyl Acetate	4.33	43	2085	1.161	ug/l #	74
19) Methyl tert-butyl Ether	5.05	73	477172	13.936	ug/l	100
31) Cyclohexane	7.66	56	22859	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	87219	4.479	ug/l #	48
38) Carbon Tetrachloride	7.67	117	113644	6.367	ug/l #	16
43) Isopropyl Acetate	8.34	43	229995	10.099	ug/l #	53
68) m/p-Xylenes	11.62	106	13341	0.517	ug/l	98
69) o-Xylene	11.95	106	6087	0.246	ug/l	88
71) Bromoform	12.40	173	4282	0.432	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	362949	32.320	ug/l #	100
77) Bromobenzene	12.56	156	95914	7.069	ug/l #	1
78) n-propylbenzene	12.59	91	15808	0.266	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.40	75	362949	104.170	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.04	105	15034	0.352	ug/l	94
86) p-Isopropyltoluene	13.44	119	10954	0.249	ug/l	98
90) Hexachloroethane	13.89	117	4994	0.740	ug/l #	4
92) 1,2-Dibromo-3-Chloropropan	14.21	75	976	0.551	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.91	180	555	0.642	ug/l #	1
95) Naphthalene	15.14	128	6871	1.403	ug/l #	80
96) 1,2,3-Trichlorobenzene	15.32	180	238	0.530	ug/l #	42

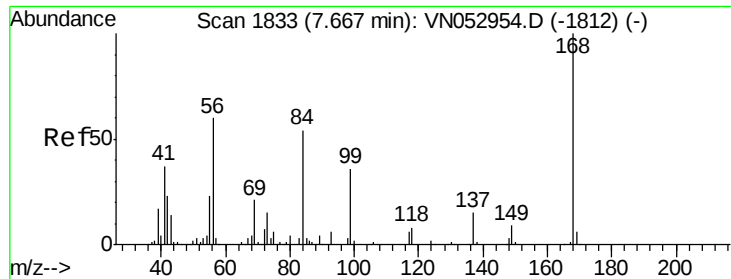
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 18 13:03:37 2018
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: VN053078.D

Acq: 21 Dec 2018 1:42

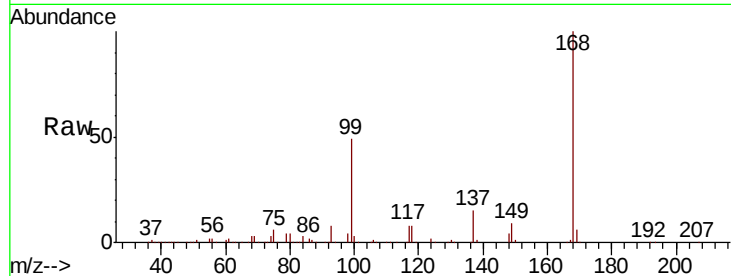
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 1342443

Ion Ratio Lower Upper

168 100

99 49.0 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

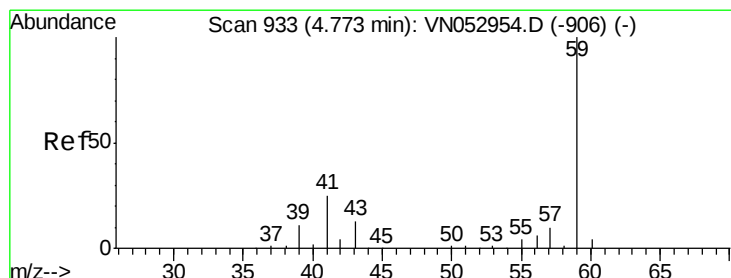
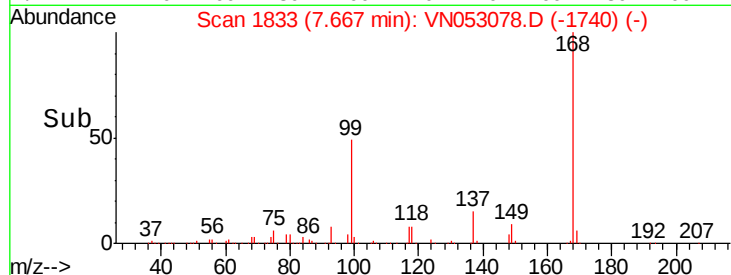
600000

400000

200000

0

Time-->



#11

Tert butyl alcohol

Concen: 3.886 ug/l

RT: 4.77 min Scan# 933

Delta R.T. 0.00 min

Lab File: VN053078.D

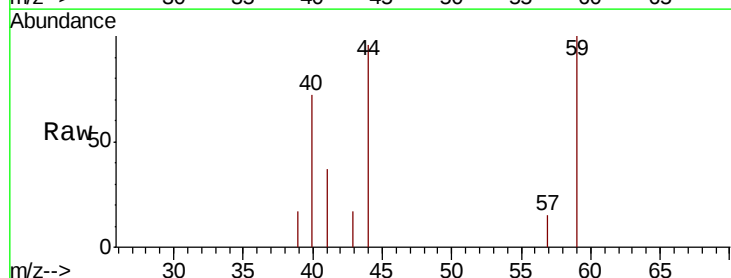
Acq: 21 Dec 2018 1:42

Tgt Ion: 59 Resp: 3230

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.77

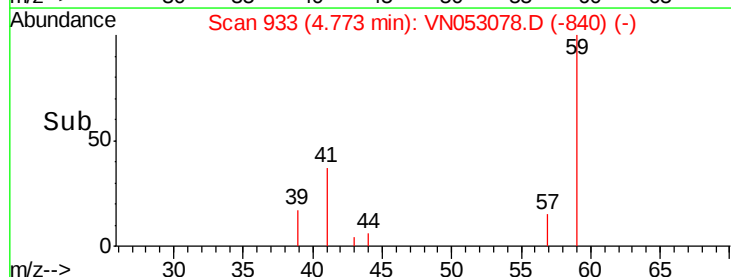
1500

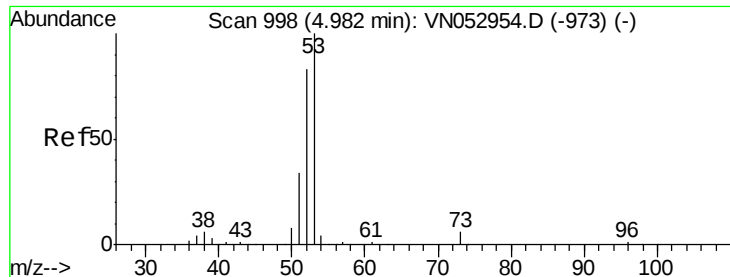
1000

500

0

Time-->





#15

Acrylonitrile

Concen: 0.478 ug/l

RT: 5.03 min Scan# 1014

Delta R.T. 0.05 min

Lab File: VN053078.D

Acq: 21 Dec 2018 1:42

Instrument :

MSVOA_N

ClientSampled :

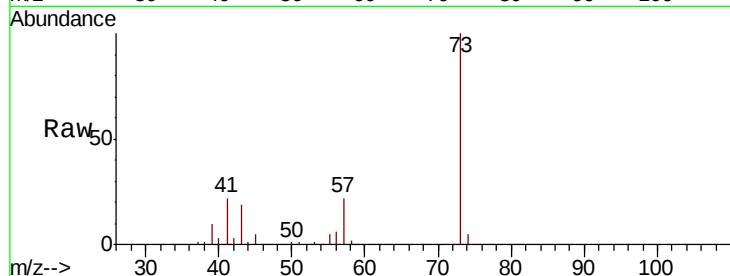
Tot Ion: 53 Resp: 2207

Ion Ratio Lower Upper

53 100

52 10.5 65.1 97.7#

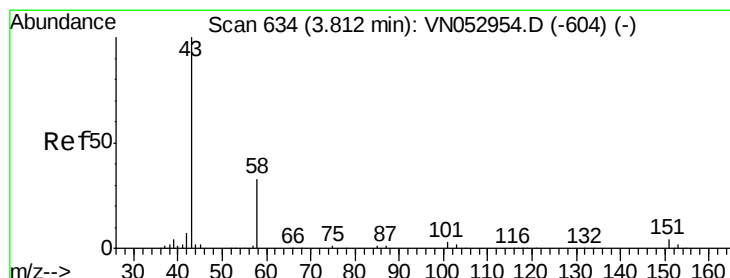
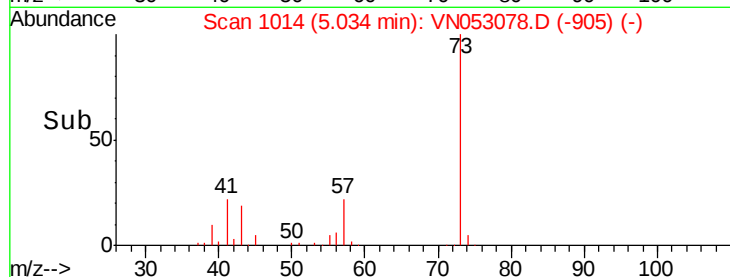
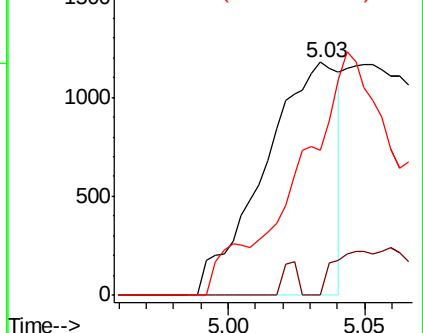
51 123.0 28.1 42.1#



Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0



#16

Acetone

Concen: 16.014 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053078.D

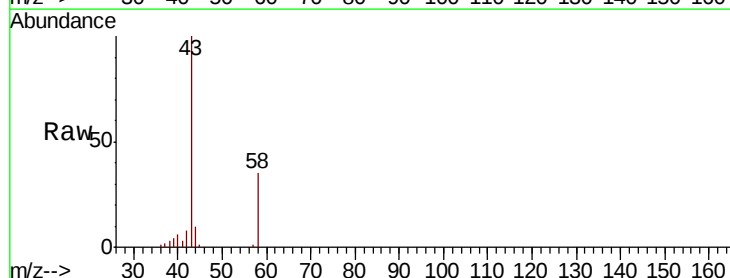
Acq: 21 Dec 2018 1:42

Tgt Ion: 43 Resp: 42775

Ion Ratio Lower Upper

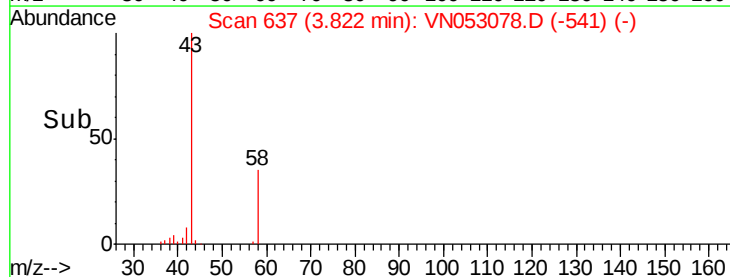
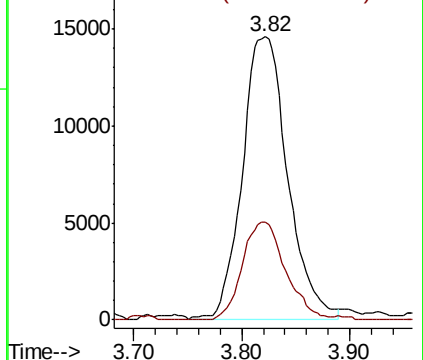
43 100

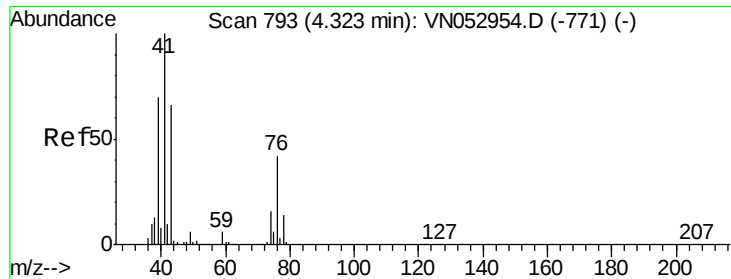
58 34.7 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

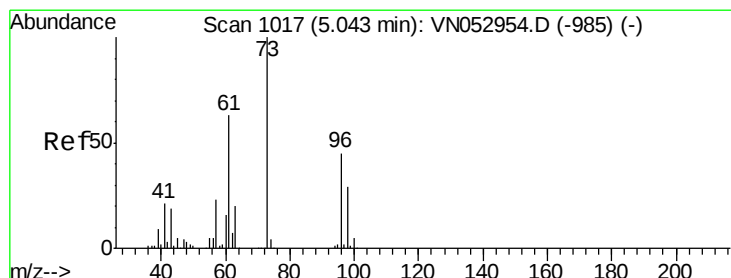
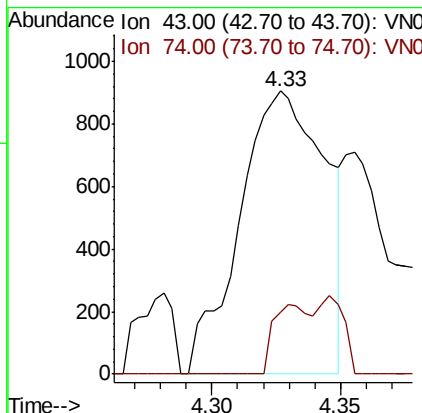
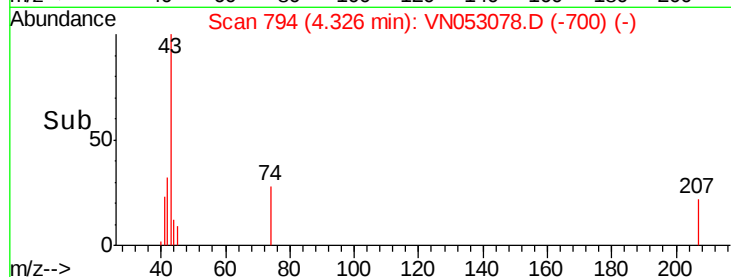
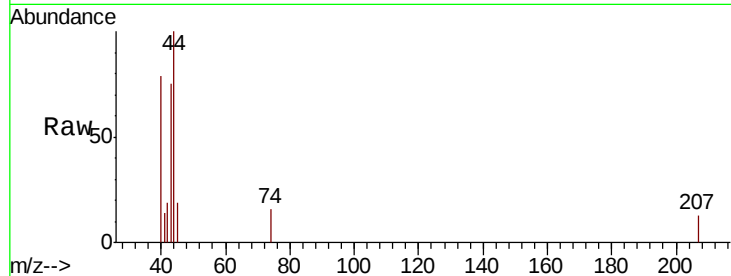




#18
Methyl Acetate
Concen: 1.161 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN053078.D
Acq: 21 Dec 2018 1:42

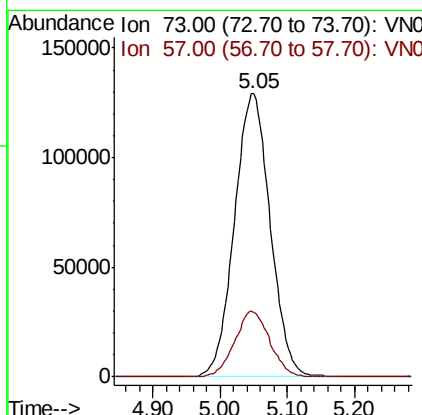
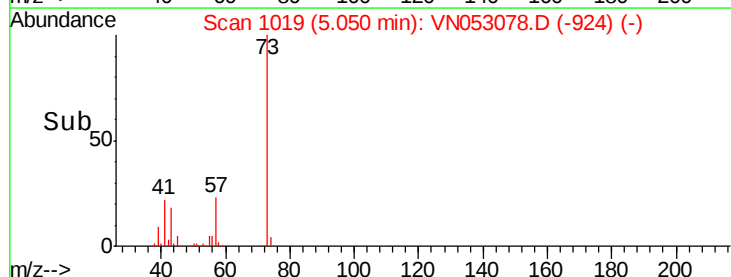
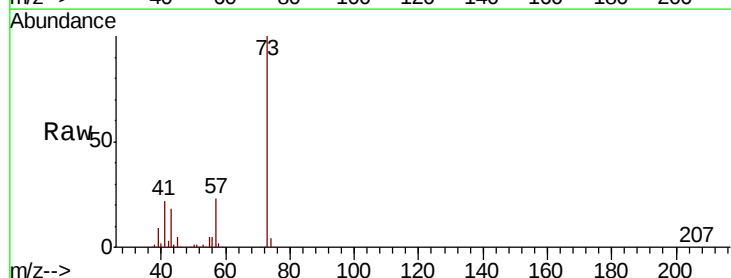
Instrument :
MSVOA_N
ClientSampled :

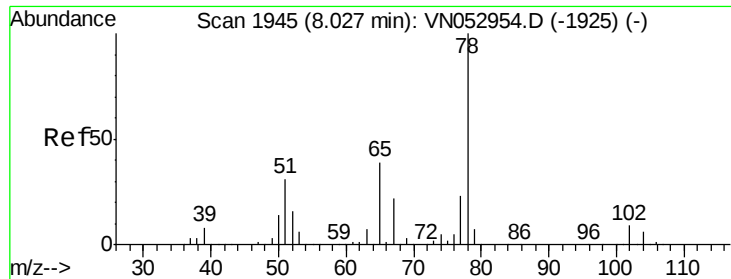
Tot Ion: 43 Resp: 2085
Ion Ratio Lower Upper
43 100
74 11.0 19.2 28.8#



#19
Methyl tert-butyl Ether
Concen: 13.936 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.01 min
Lab File: VN053078.D
Acq: 21 Dec 2018 1:42

Tgt Ion: 73 Resp: 477172
Ion Ratio Lower Upper
73 100
57 22.9 18.4 27.6

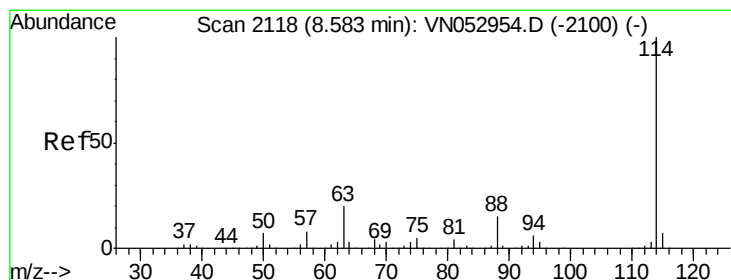
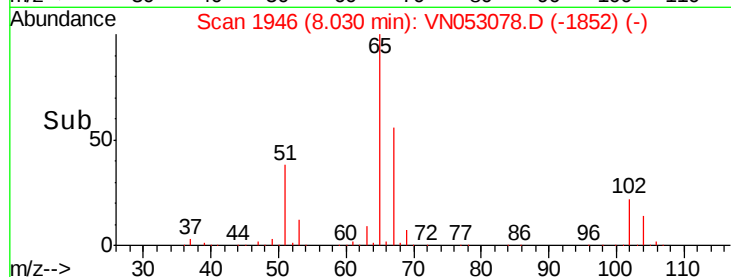
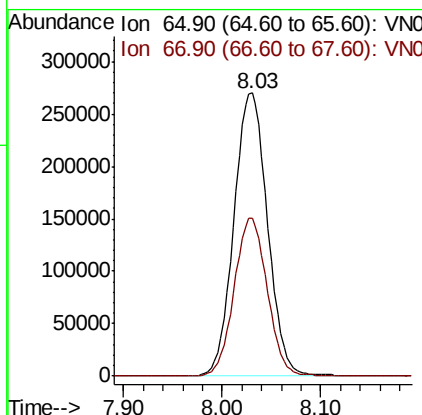
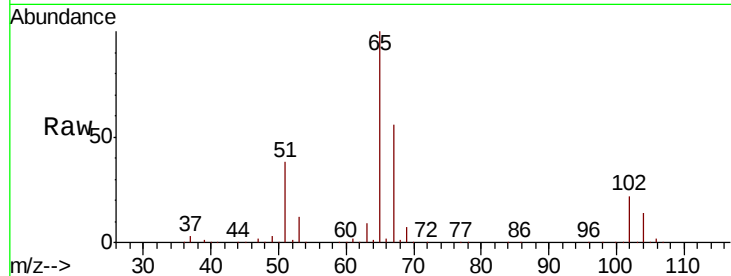




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN053078.D
 Acq: 21 Dec 2018 1:42

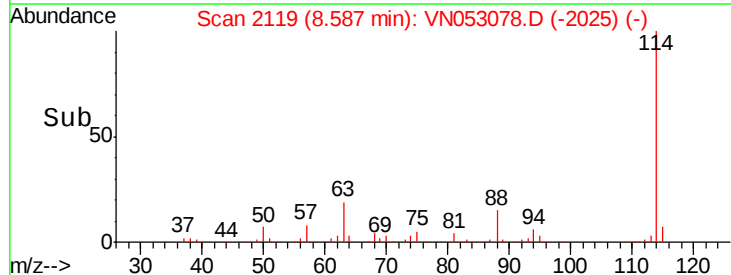
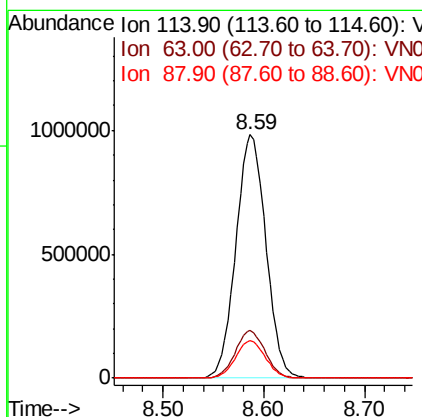
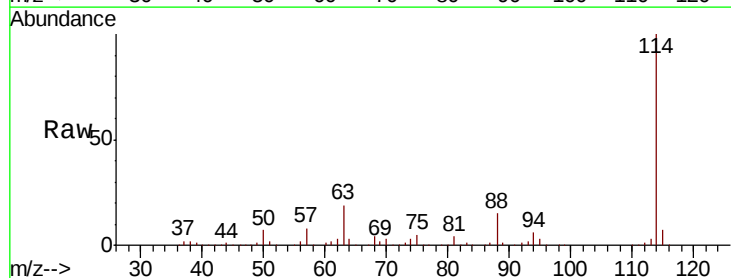
Instrument :
 MSVOA_N
 ClientSampleId :

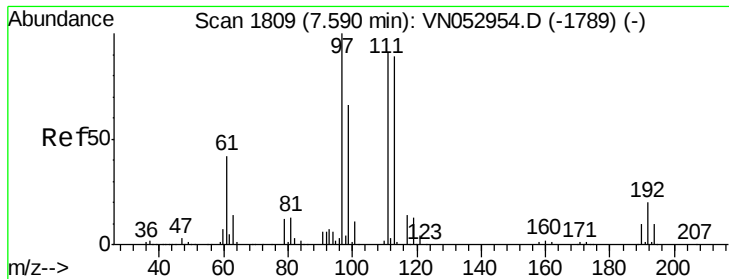
Tot Ion: 65 Resp: 638730
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053078.D
 Acq: 21 Dec 2018 1:42

Tgt Ion: 114 Resp: 2028892
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 39.8
 88 15.4 0.0 31.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053078.D

Acq: 21 Dec 2018 1:42

Instrument :

MSVOA_N

ClientSampleId :

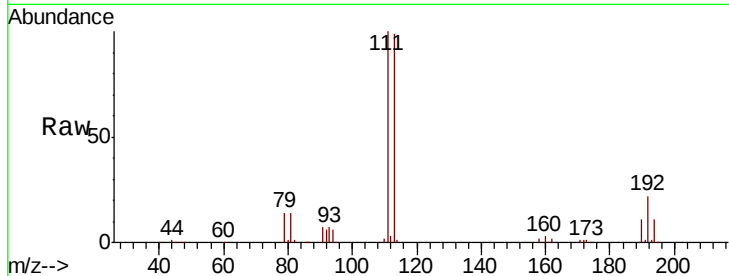
Tot Ion:113 Resp: 572849

Ion Ratio Lower Upper

113 100

111 101.3 83.0 124.4

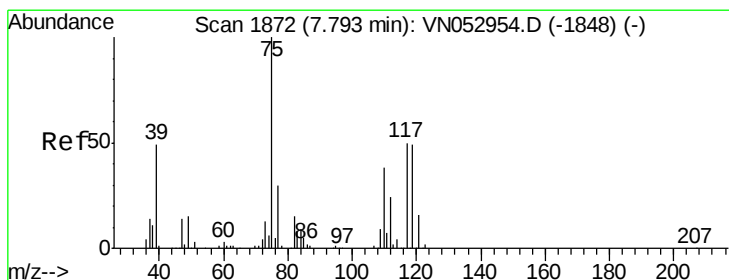
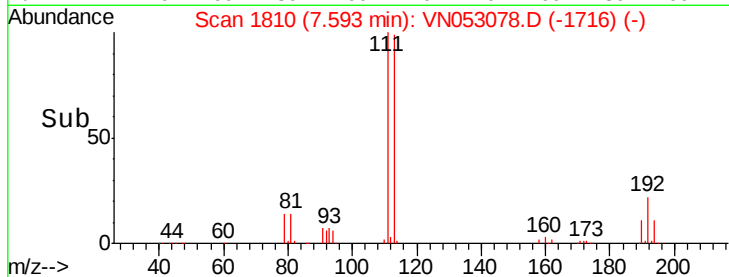
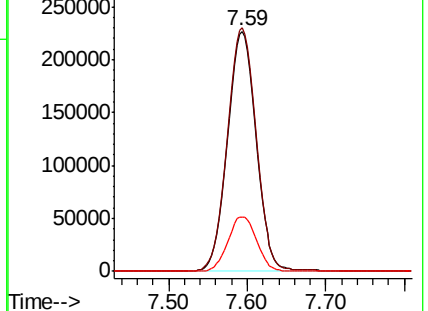
192 22.7 17.5 26.3



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: 4.479 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053078.D

Acq: 21 Dec 2018 1:42

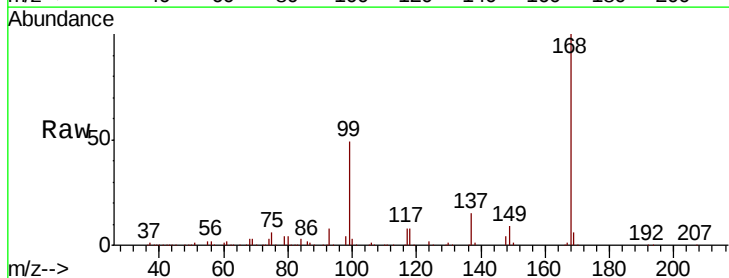
Tgt Ion: 75 Resp: 87219

Ion Ratio Lower Upper

75 100

110 8.2 18.2 54.6#

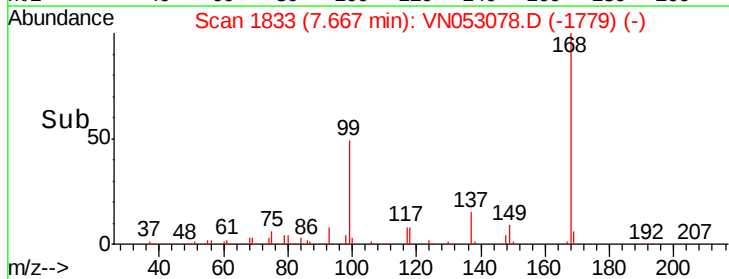
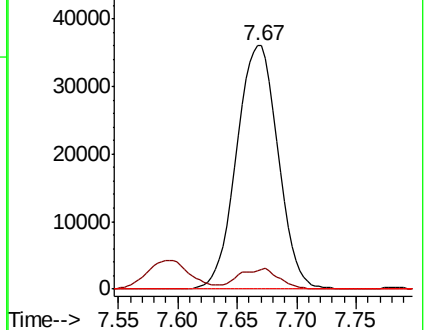
77 0.0 24.9 37.3#

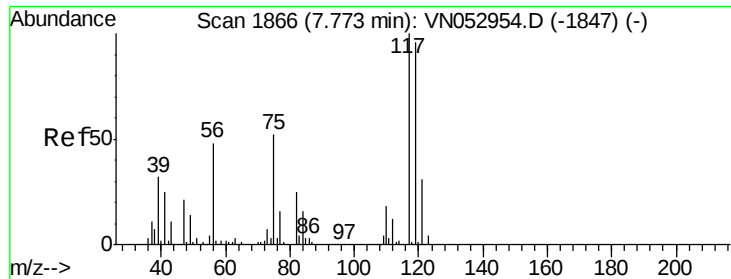


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.367 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053078.D

Acq: 21 Dec 2018 1:42

Instrument :
MSVOA_N
ClientSampleId :

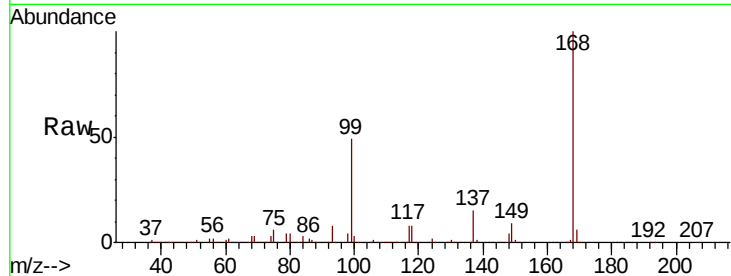
Tot Ion:117 Resp: 113644

Ion Ratio Lower Upper

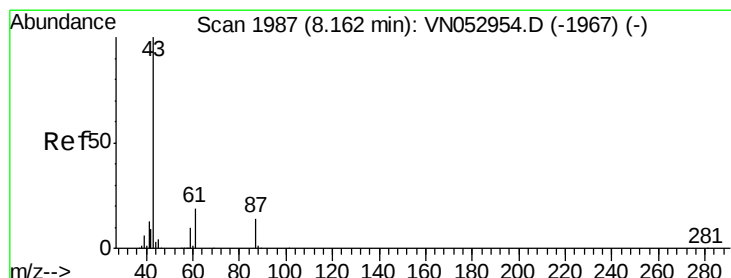
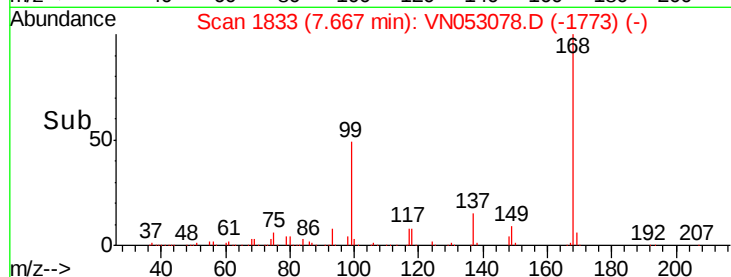
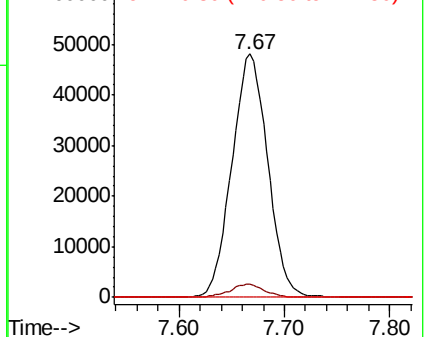
117 100

119 5.3 77.1 115.7#

121 0.0 24.9 37.3#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 10.099 ug/l

RT: 8.34 min Scan# 2042

Delta R.T. 0.18 min

Lab File: VN053078.D

Acq: 21 Dec 2018 1:42

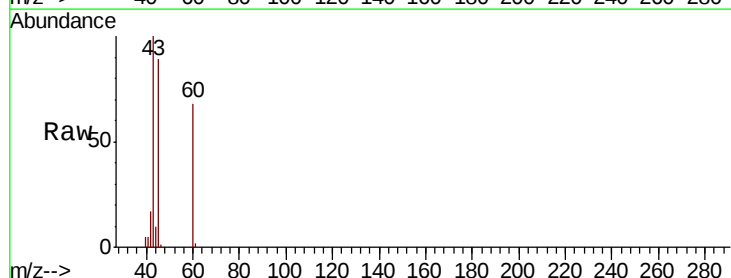
Tgt Ion: 43 Resp: 229995

Ion Ratio Lower Upper

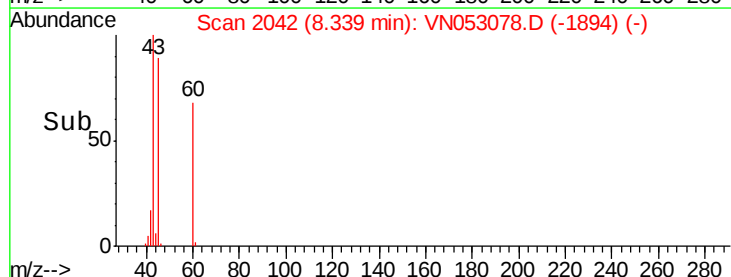
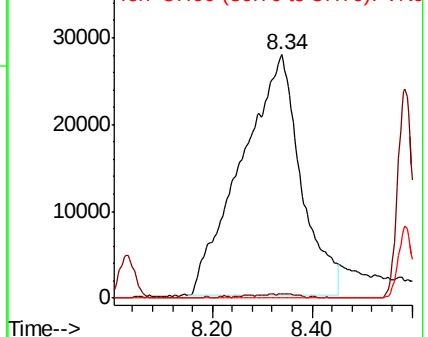
43 100

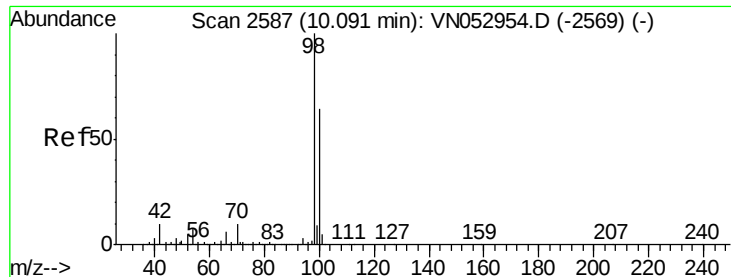
61 0.0 22.9 34.3#

87 0.0 10.6 15.8#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053078.D

Acq: 21 Dec 2018 1:42

Instrument :

MSVOA_N

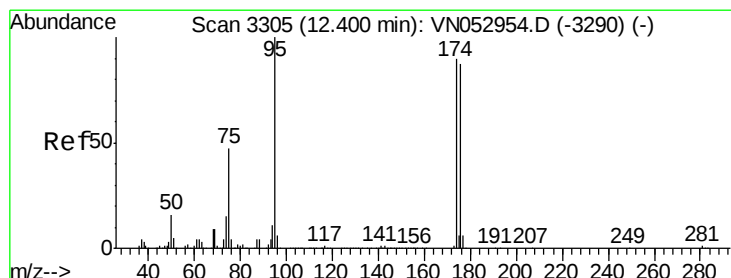
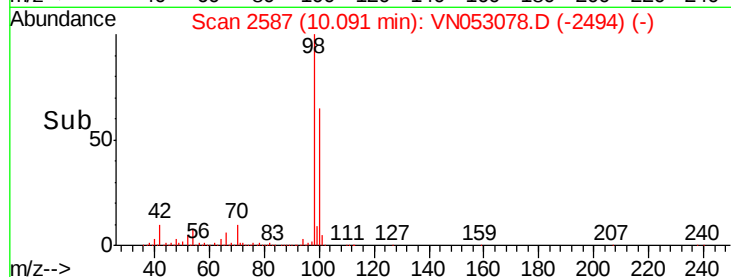
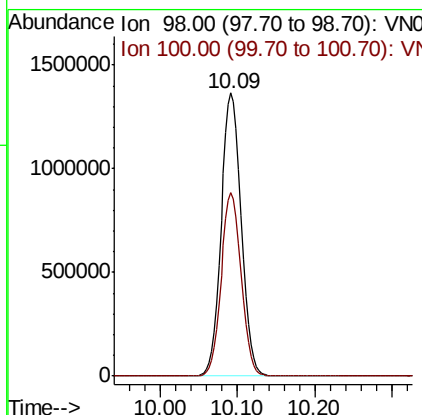
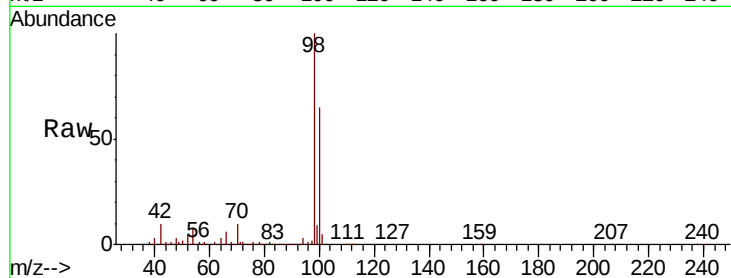
ClientSampleId :

Tot Ion: 98 Resp: 2465125

Ion Ratio Lower Upper

98 100

100 64.5 51.6 77.4



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053078.D

Acq: 21 Dec 2018 1:42

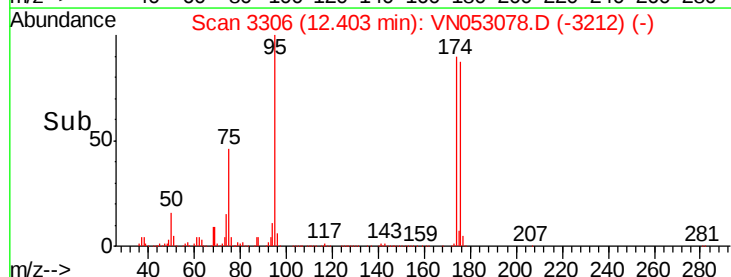
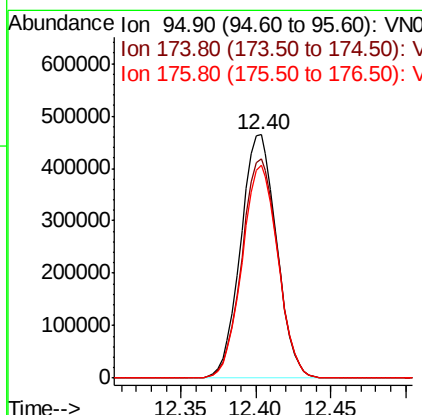
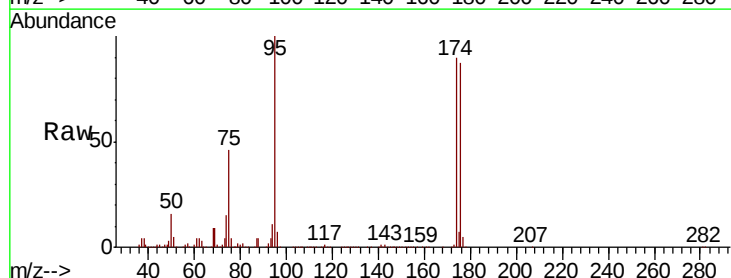
Tgt Ion: 95 Resp: 777057

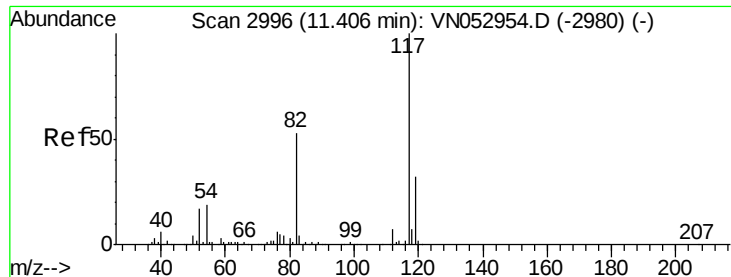
Ion Ratio Lower Upper

95 100

174 90.4 0.0 178.8

176 87.2 0.0 173.8

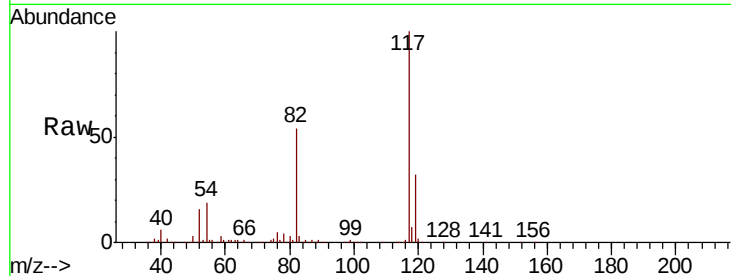




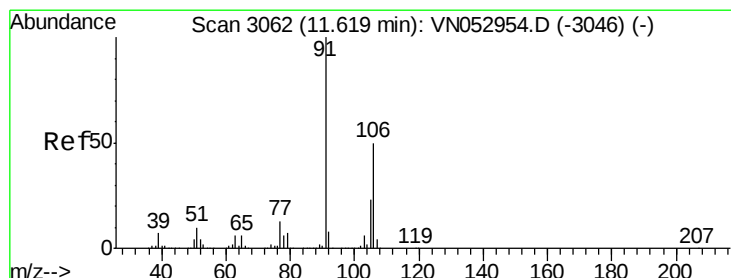
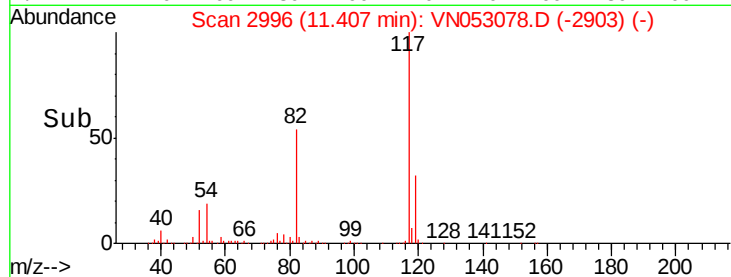
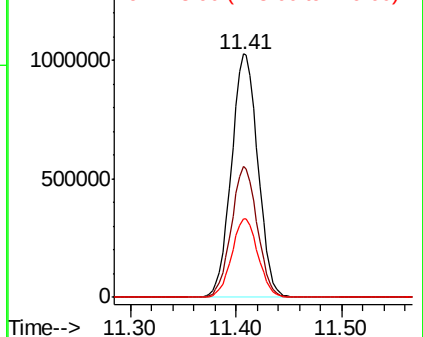
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053078.D
Acq: 21 Dec 2018 1:42

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 1779643
Ion Ratio Lower Upper
117 100
82 53.5 42.8 64.2
119 32.2 25.5 38.3

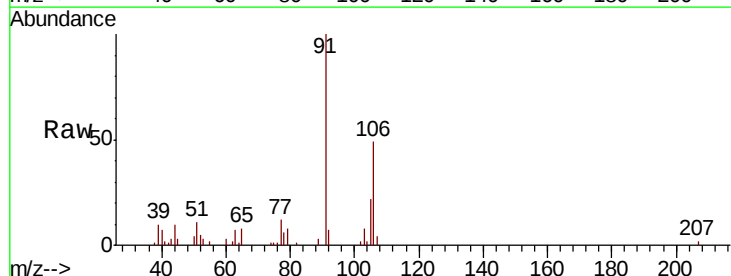


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

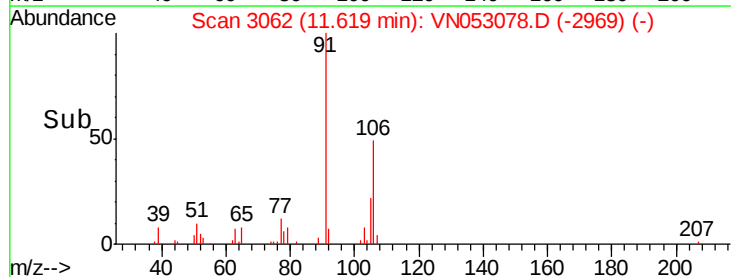
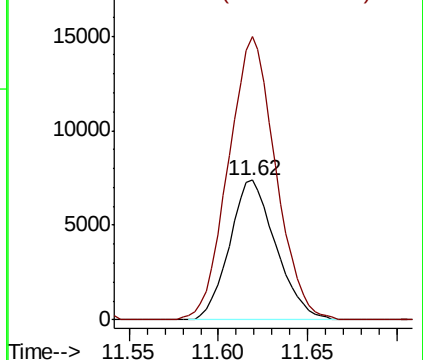


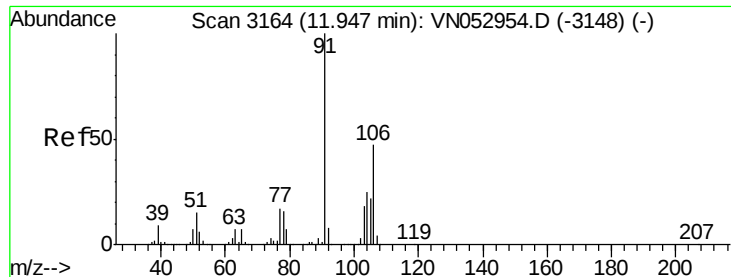
#68
m/p-Xylenes
Concen: 0.517 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN053078.D
Acq: 21 Dec 2018 1:42

Tgt Ion:106 Resp: 13341
Ion Ratio Lower Upper
106 100
91 206.2 162.2 243.4



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

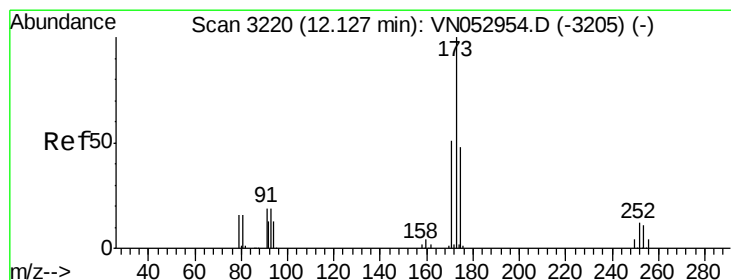
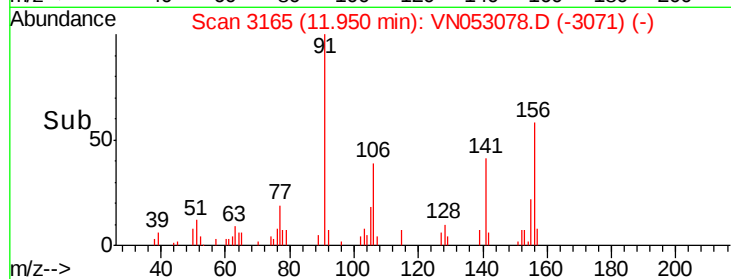
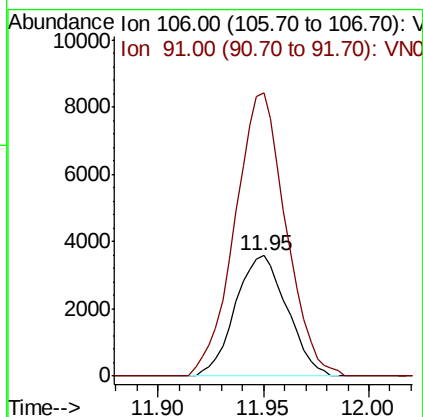
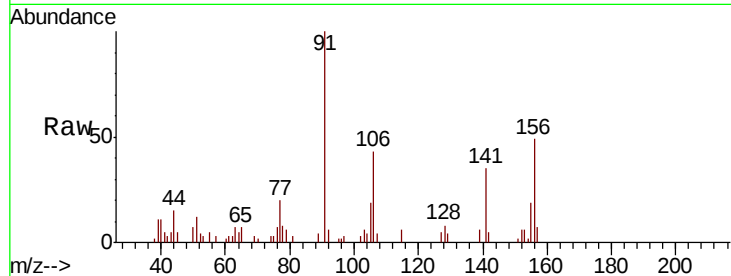




#69
o-Xylene
Concen: 0.246 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN053078.D
Acq: 21 Dec 2018 1:42

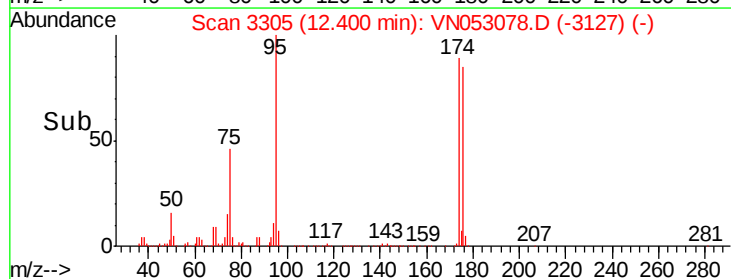
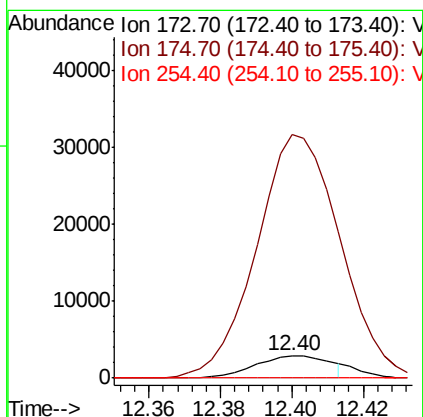
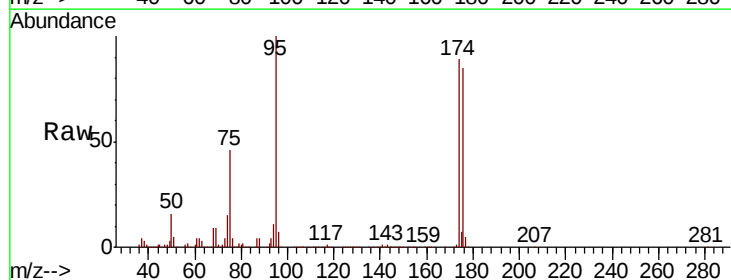
Instrument :
MSVOA_N
ClientSampled :

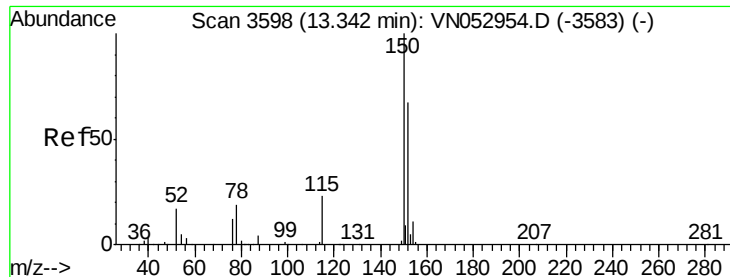
Tot Ion:106 Resp: 6087
Ion Ratio Lower Upper
106 100
91 232.5 106.6 319.8



#71
Bromoform
Concen: 0.432 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN053078.D
Acq: 21 Dec 2018 1:42

Tgt Ion:173 Resp: 4282
Ion Ratio Lower Upper
173 100
175 1057.1 24.3 72.9#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053078.D

Acq: 21 Dec 2018 1:42

Instrument :

MSVOA_N

ClientSampled :

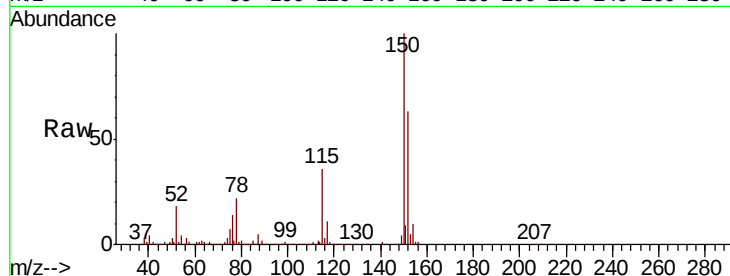
Tot Ion:152 Resp: 667103

Ion Ratio Lower Upper

152 100

115 57.2 28.3 85.0

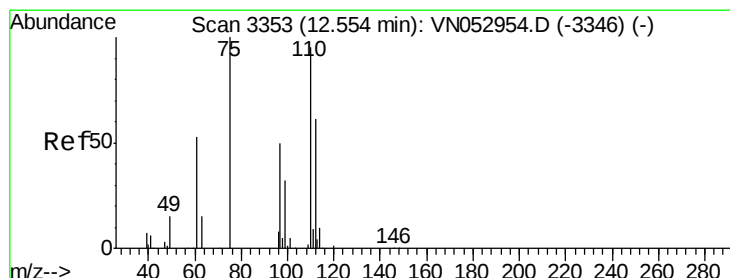
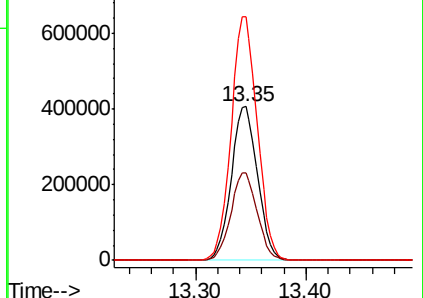
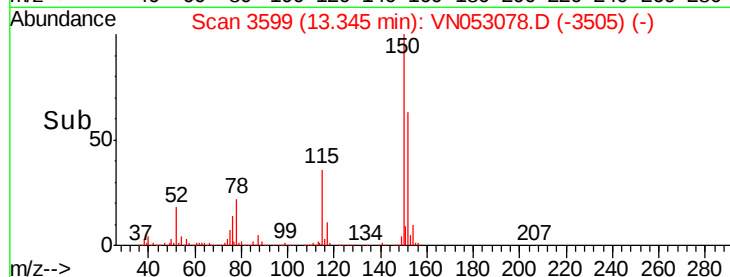
150 158.2 0.0 347.8



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: 32.320 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053078.D

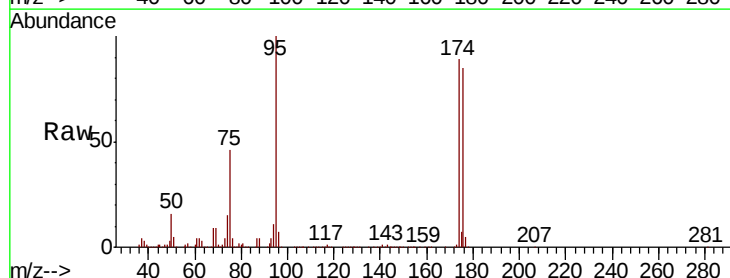
Acq: 21 Dec 2018 1:42

Tgt Ion: 75 Resp: 362949

Ion Ratio Lower Upper

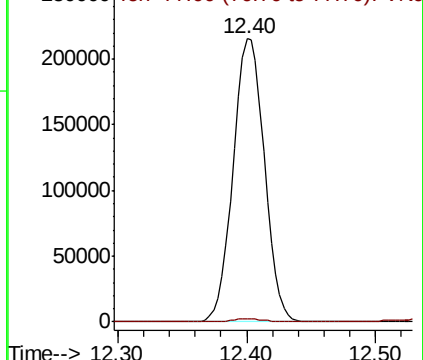
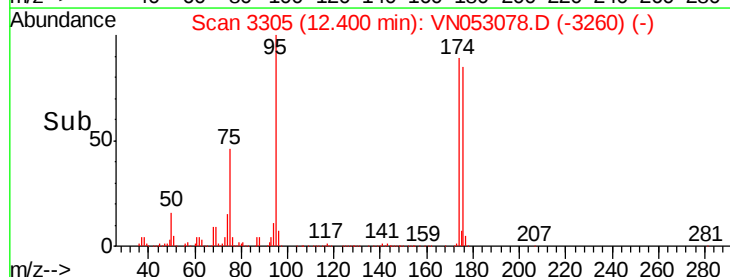
75 100

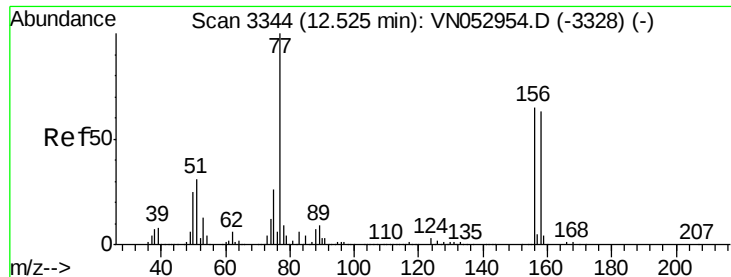
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#77

Bromobenzene

Concen: 7.069 ug/l

RT: 12.56 min Scan# 3354

Delta R.T. 0.03 min

Lab File: VN053078.D

Acq: 21 Dec 2018 1:42

Instrument :

MSVOA_N

ClientSampleId :

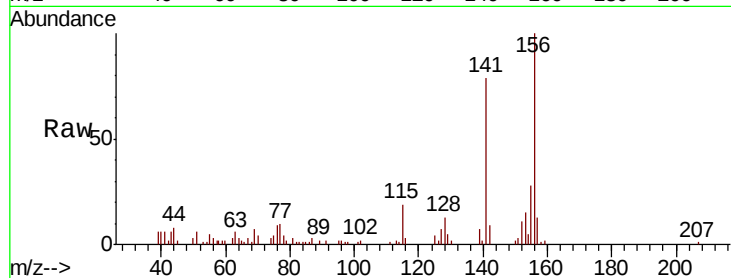
Tot Ion:156 Resp: 95914

Ion Ratio Lower Upper

156 100

77 0.0 91.3 273.8#

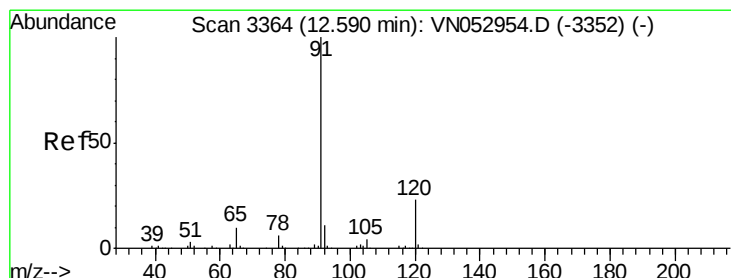
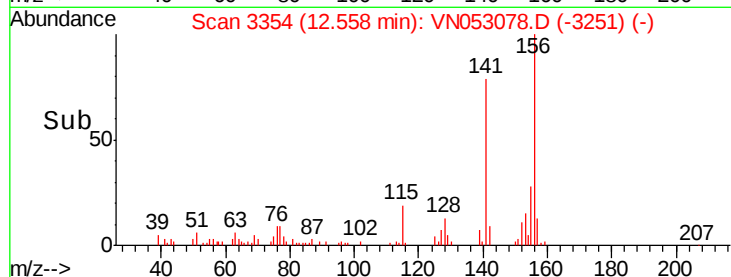
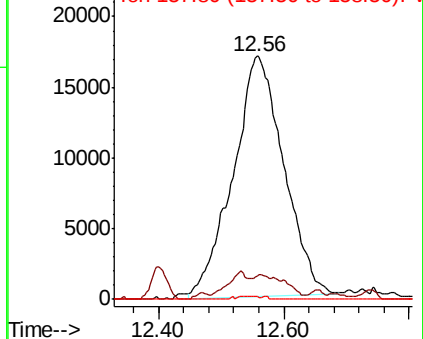
158 0.0 49.0 147.2#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 0.266 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN053078.D

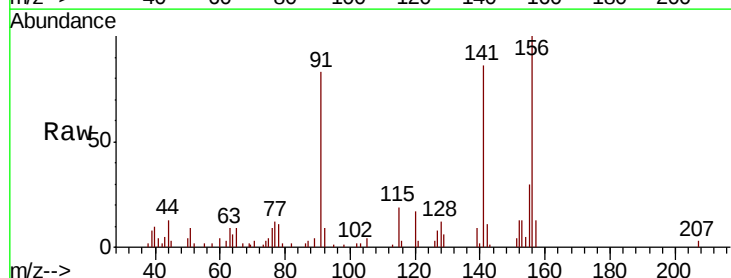
Acq: 21 Dec 2018 1:42

Tgt Ion: 91 Resp: 15808

Ion Ratio Lower Upper

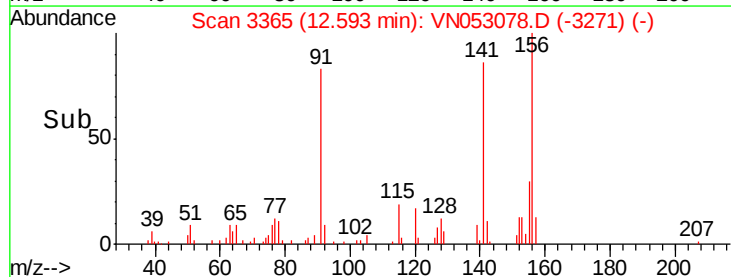
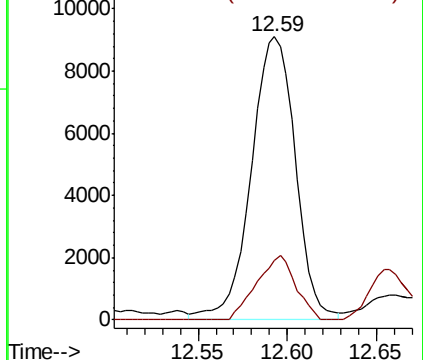
91 100

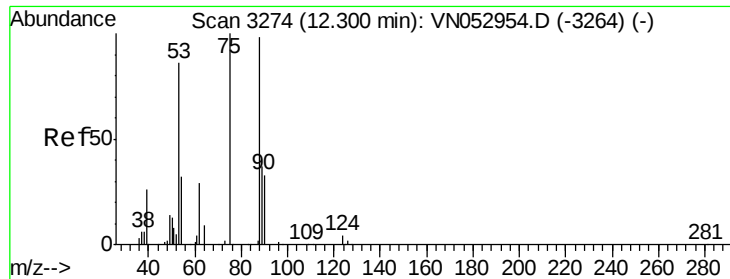
120 20.1 11.5 34.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 104.170 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053078.D

Acq: 21 Dec 2018 1:42

Instrument :

MSVOA_N

ClientSampled :

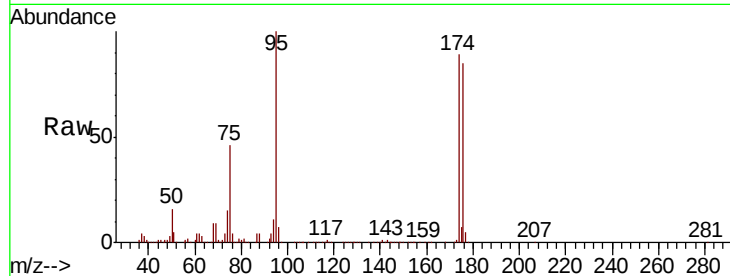
Tot Ion: 75 Resp: 362949

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

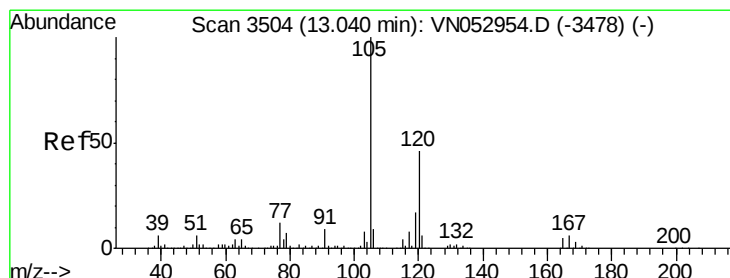
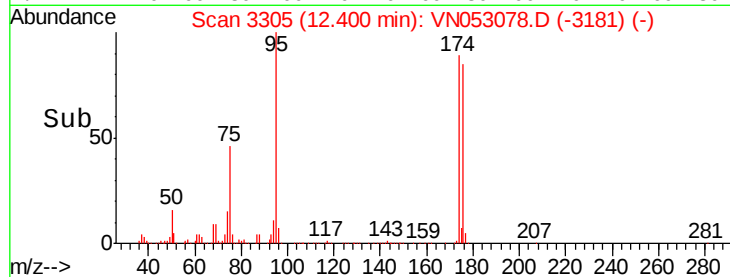
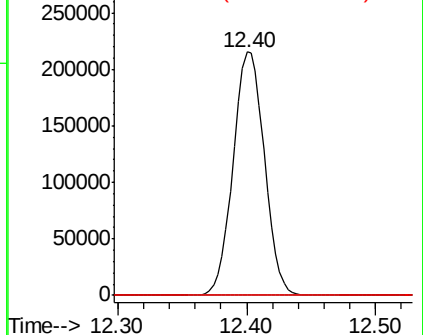
89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VN052954.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN052954.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN052954.D (-3264) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.352 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN053078.D

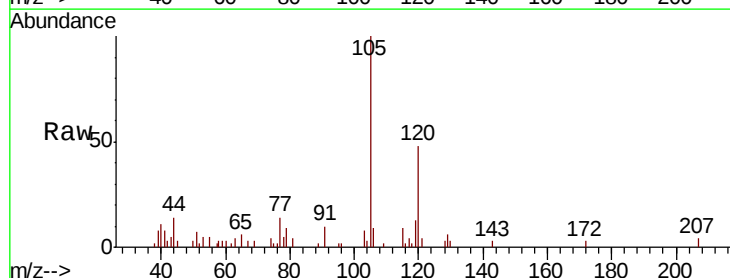
Acq: 21 Dec 2018 1:42

Tgt Ion: 105 Resp: 15034

Ion Ratio Lower Upper

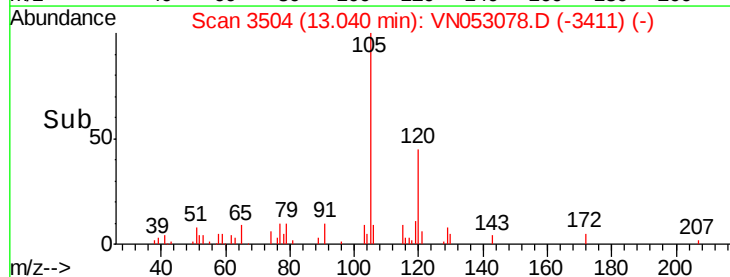
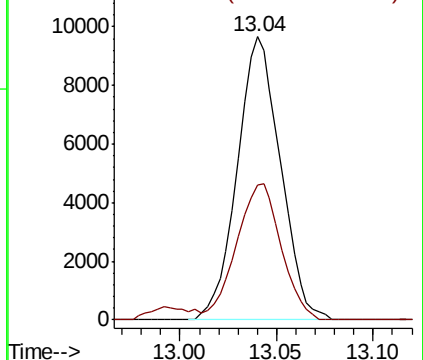
105 100

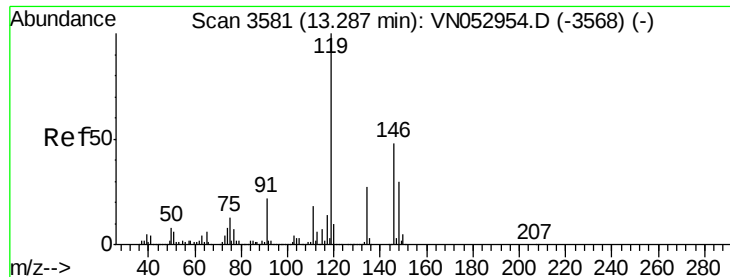
120 49.6 22.9 68.8



Abundance Ion 105.00 (104.70 to 105.70): VN052954.D (-3478) (-)

Ion 120.00 (119.70 to 120.70): VN052954.D (-3478) (-)





#86

p-Isopropyltoluene

Concen: 0.249 ug/l

RT: 13.44 min Scan# 3629

Delta R.T. 0.15 min

Lab File: VN053078.D

Acq: 21 Dec 2018 1:42

Instrument :

MSVOA_N

ClientSampled :

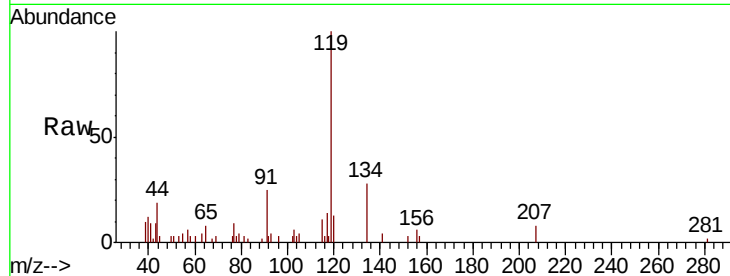
Tot Ion:119 Resp: 10954

Ion Ratio Lower Upper

119 100

134 27.2 13.4 40.2

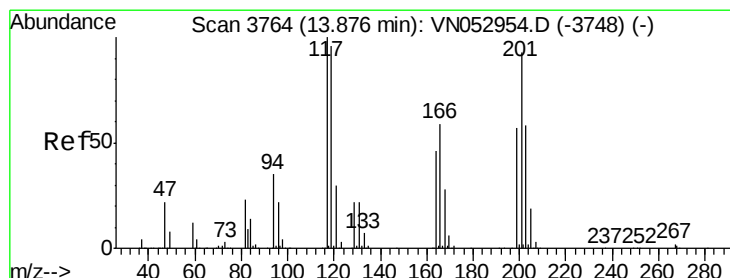
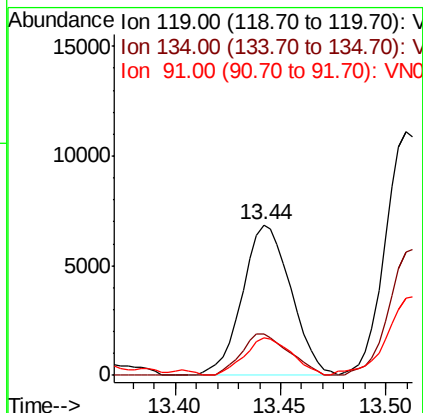
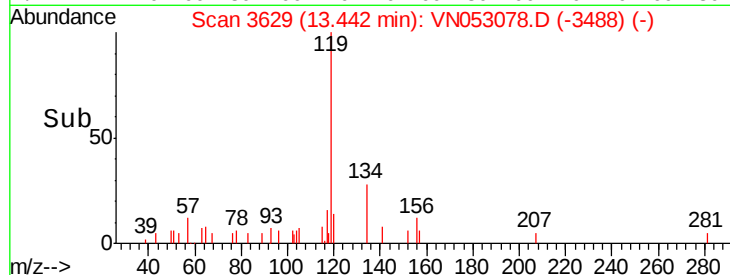
91 24.1 11.1 33.3



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#90

Hexachloroethane

Concen: 0.740 ug/l

RT: 13.89 min Scan# 3768

Delta R.T. 0.01 min

Lab File: VN053078.D

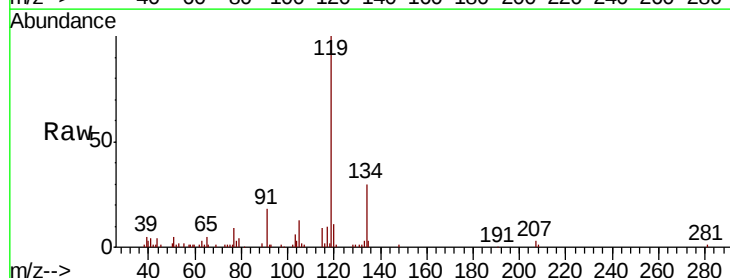
Acq: 21 Dec 2018 1:42

Tgt Ion:117 Resp: 4994

Ion Ratio Lower Upper

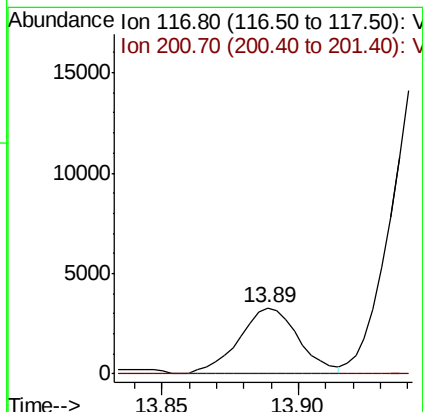
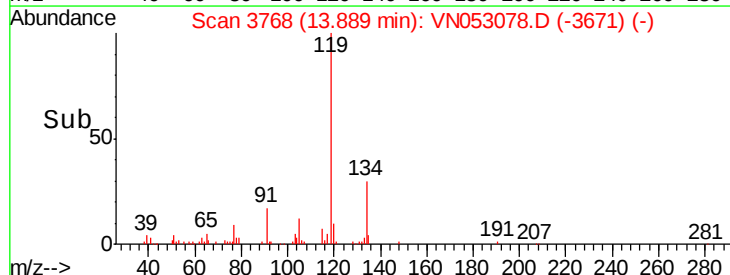
117 100

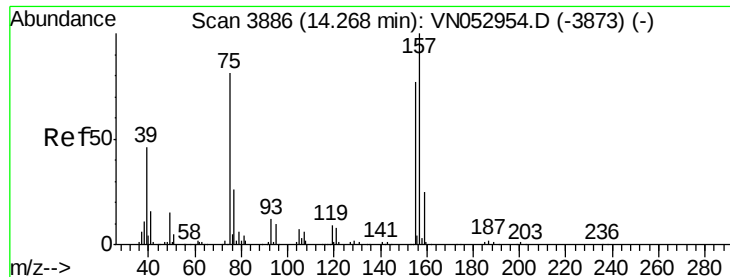
201 0.0 45.7 137.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.551 ug/l

RT: 14.21 min Scan# 3868

Delta R.T. -0.06 min

Lab File: VN053078.D

Acq: 21 Dec 2018 1:42

Instrument :

MSVOA_N

ClientSampled :

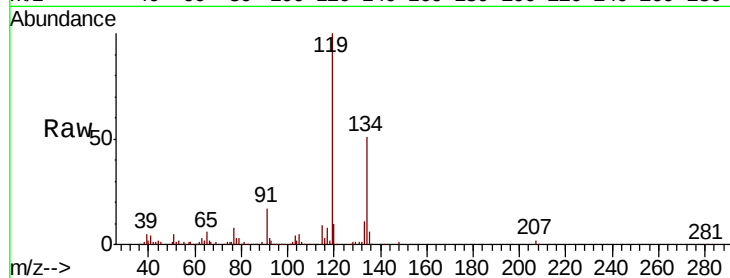
Tot Ion: 75 Resp: 976

Ion Ratio Lower Upper

75 100

155 0.0 48.2 144.6#

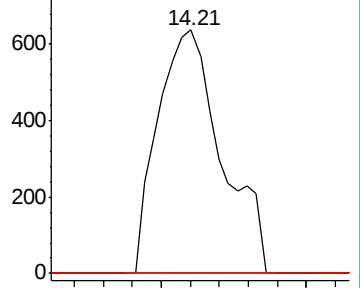
157 0.0 61.2 183.5#



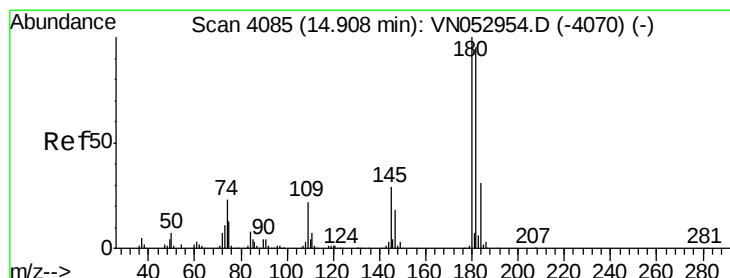
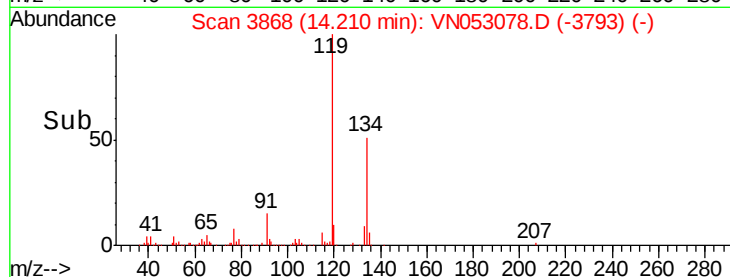
Abundance Ion 74.90 (74.60 to 75.60): VN052954.D (-3873) (-)

Ion 154.80 (154.50 to 155.50): VN052954.D (-3873) (-)

Ion 156.80 (156.50 to 157.50): VN052954.D (-3873) (-)



Time-->



#93

1,2,4-Trichlorobenzene

Concen: 0.642 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN053078.D

Acq: 21 Dec 2018 1:42

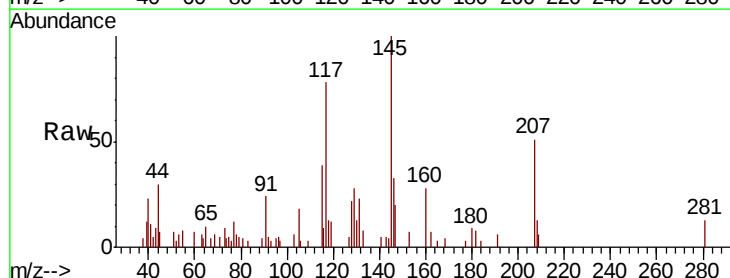
Tgt Ion: 180 Resp: 555

Ion Ratio Lower Upper

180 100

182 123.6 47.8 143.3

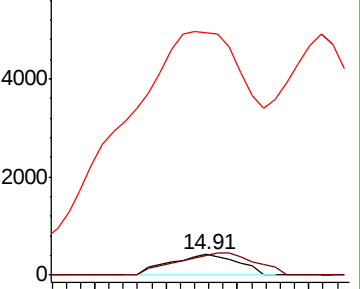
145 2305.2 14.2 42.6#



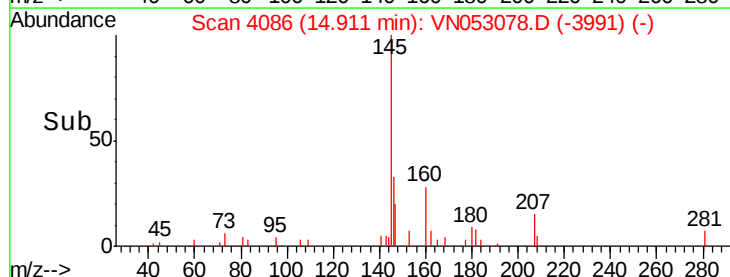
Abundance Ion 179.80 (179.50 to 180.50): VN052954.D (-4070) (-)

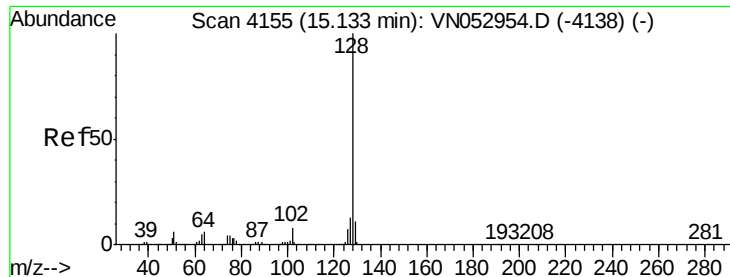
Ion 181.80 (181.50 to 182.50): VN052954.D (-4070) (-)

Ion 144.80 (144.50 to 145.50): VN052954.D (-4070) (-)



Time-->





#95

Naphthalene

Concen: 1.403 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN053078.D

Acq: 21 Dec 2018 1:42

Instrument :

MSVOA_N

ClientSampleId :

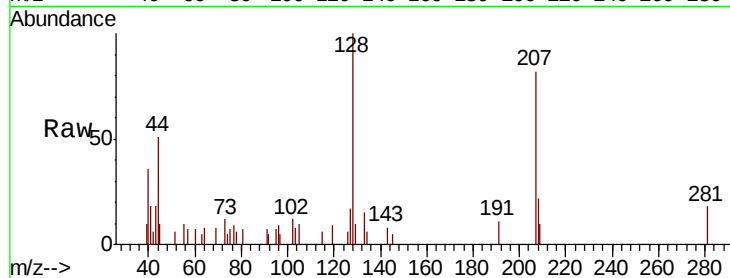
Tot Ion:128 Resp: 6871

Ion Ratio Lower Upper

128 100

127 17.8 10.2 15.4#

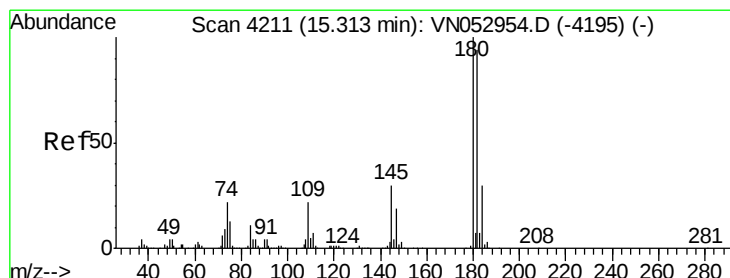
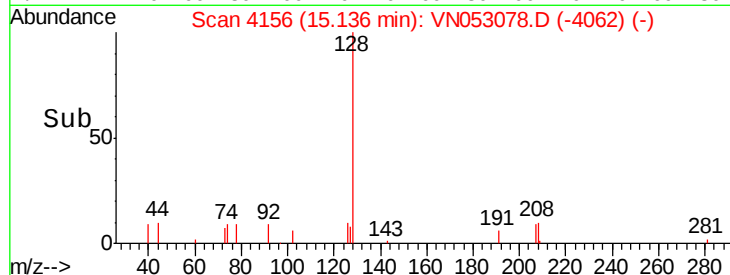
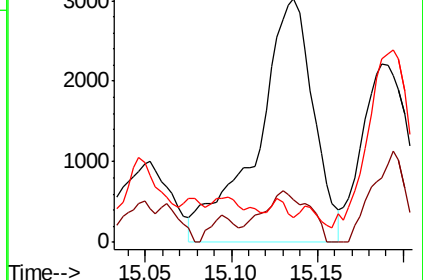
129 0.0 8.6 13.0#



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



#96

1,2,3-Trichlorobenzene

Concen: 0.530 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN053078.D

Acq: 21 Dec 2018 1:42

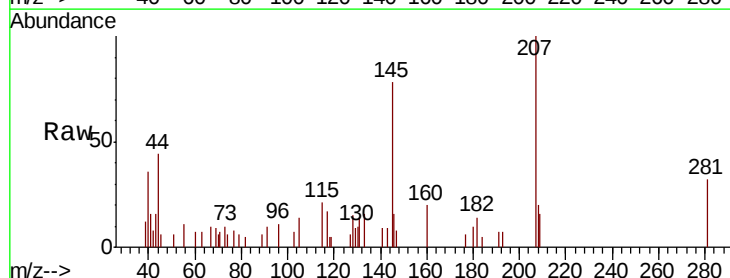
Tgt Ion:180 Resp: 238

Ion Ratio Lower Upper

180 100

182 153.8 47.9 143.7#

145 0.0 15.0 45.0#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

