

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN110118\
 Data File : VN052100.D
 Acq On : 1 Nov 2018 13:47
 Operator : MD\SY
 Sample : J5756-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 BEL-02-CONT-PIPE-WATER

Quant Time: Nov 02 05:44:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N110118W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 02 05:39:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	56422	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	338103	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	289278	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	137926	32.94	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	109.80%
60) 4-Bromofluorobenzene	12.40	95	128617	27.79	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	92.63%
63) Toluene-d8	10.09	98	413651	30.41	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.37%

Target Compounds

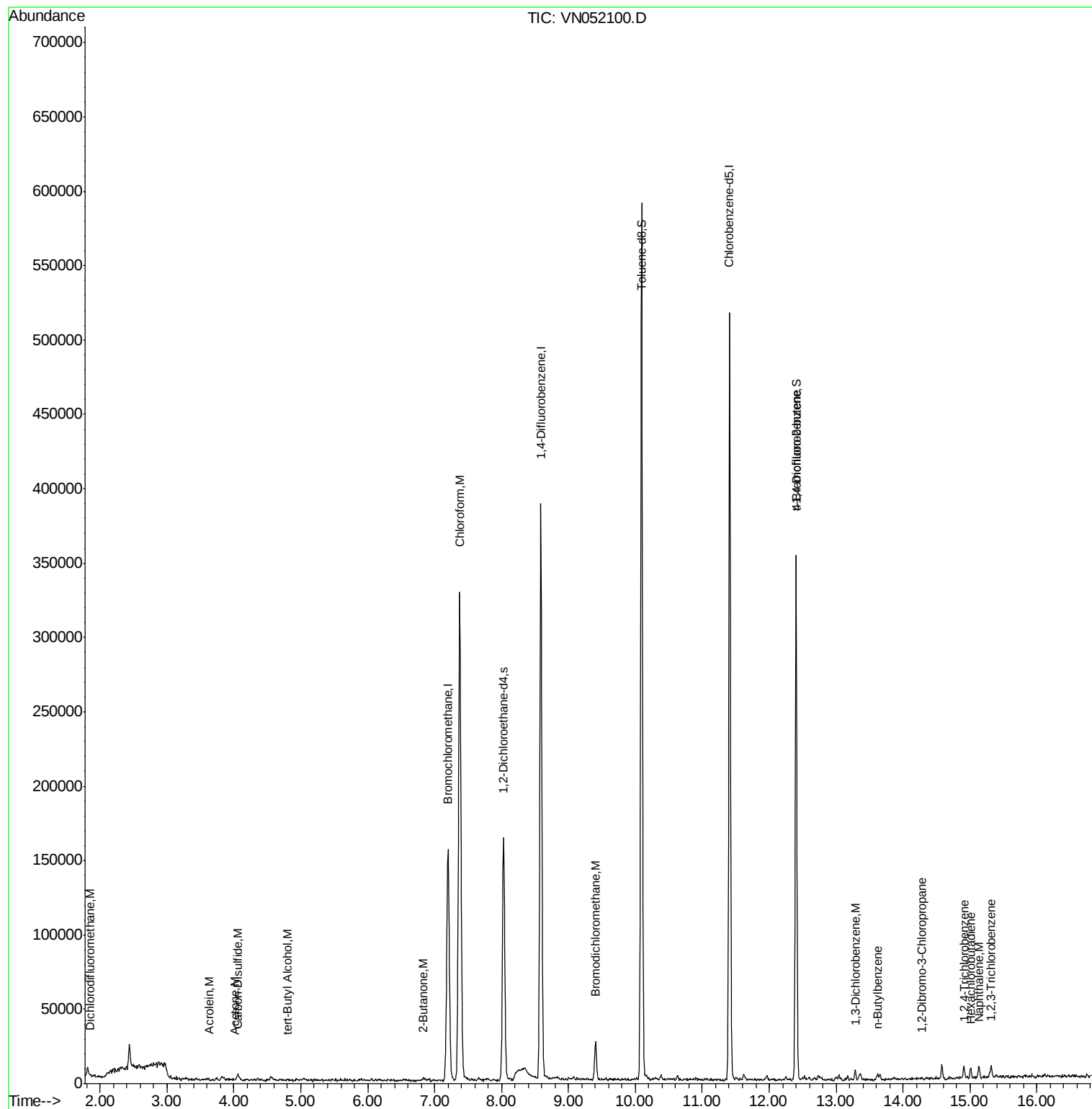
					Qvalue	
2) Dichlorodifluoromethane	1.86	85	777	0.206	ug/l #	43
13) Acrolein	3.62	56	214	0.768	ug/l	94
15) Acetone	4.01	58	71	0.258	ug/l	73
16) Carbon Disulfide	4.06	76	3507	0.381	ug/l #	89
23) tert-Butyl Alcohol	4.79	59	169	0.931	ug/l #	43
25) Chloroform	7.37	83	337327	49.935	ug/l	93
30) 2-Butanone	6.83	43	334	0.234	ug/l #	73
41) Bromodichloromethane	9.40	83	17778	3.369	ug/l	97
77) t-1,4-Dichloro-2-butene	12.40	75	65303	62.438	ug/l #	9
83) 1,3-Dichlorobenzene	13.28	146	1602	0.236	ug/l	84
85) n-Butylbenzene	13.62	91	2769	0.228	ug/l	89
88) 1,2-Dibromo-3-Chloropropan	14.26	75	237	0.456	ug/l #	6
89) 1,2,4-Trichlorobenzene	14.91	180	2204	0.844	ug/l #	57
90) Hexachlorobutadiene	15.01	225	553	0.387	ug/l	65
91) Naphthalene	15.13	128	5286	0.878	ug/l #	84
92) 1,2,3-Trichlorobenzene	15.32	180	2618	1.150	ug/l	90

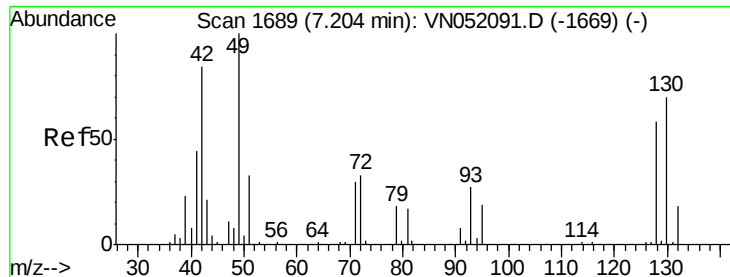
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N110118W.M
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1689

Delta R.T. -0.00 min

Lab File: VN052100.D

Acq: 1 Nov 2018 13:47

Instrument :

MSVOA_N

ClientSampleId :

BEL-02-CONT-PIPE-WATER

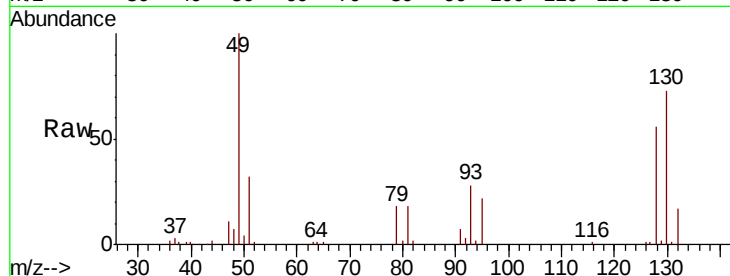
Tgt Ion:128 Resp: 56422

Ion Ratio Lower Upper

128 100

49 182.3 0.0 453.7

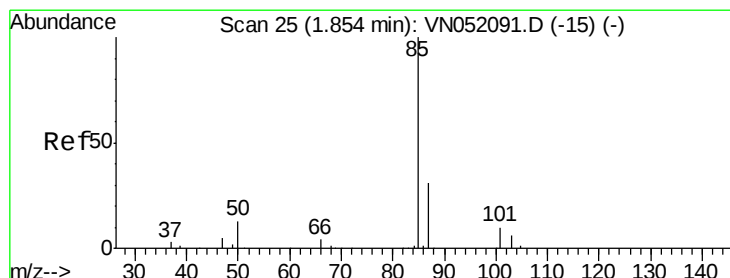
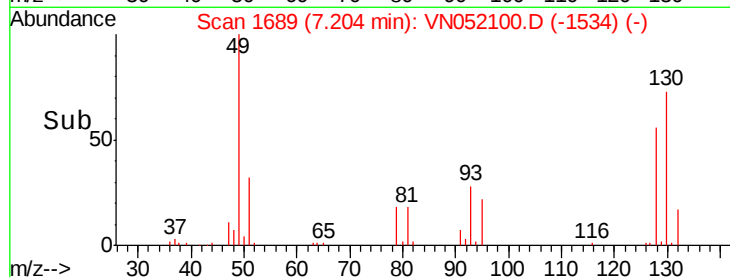
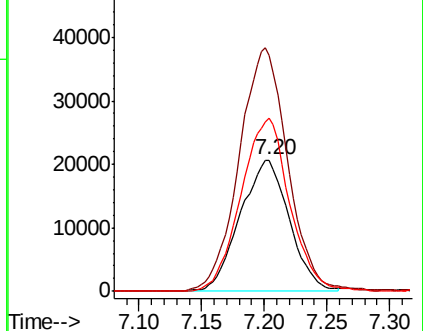
130 130.9 0.0 308.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.206 ug/l

RT: 1.86 min Scan# 27

Delta R.T. 0.01 min

Lab File: VN052100.D

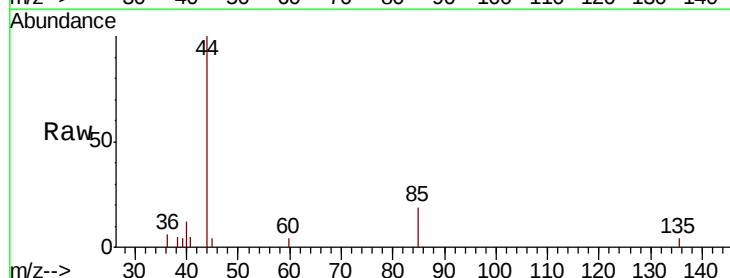
Acq: 1 Nov 2018 13:47

Tgt Ion: 85 Resp: 777

Ion Ratio Lower Upper

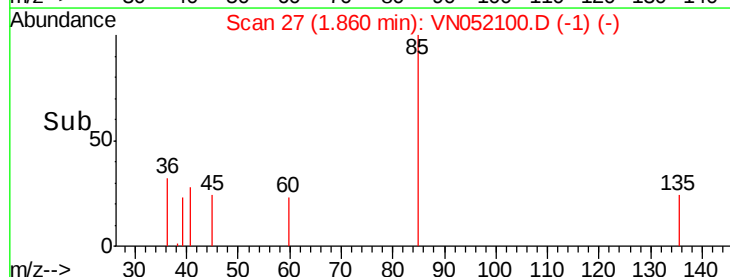
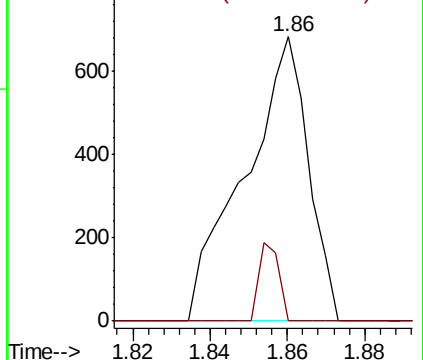
85 100

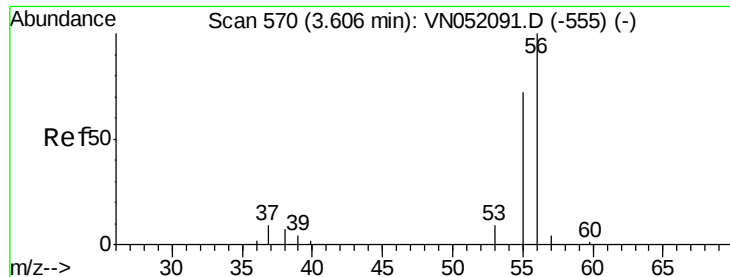
87 0.0 15.7 47.1#



Abundance Ion 85.00 (84.70 to 85.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#13

Acrolein

Concen: 0.768 ug/l

RT: 3.62 min Scan# 574

Delta R.T. 0.01 min

Lab File: VN052100.D

Acq: 1 Nov 2018 13:47

Instrument :

MSVOA_N

ClientSampleId :

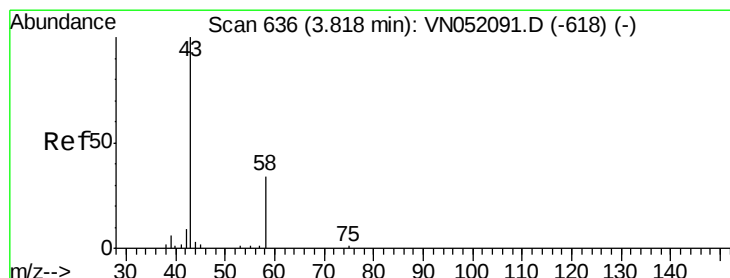
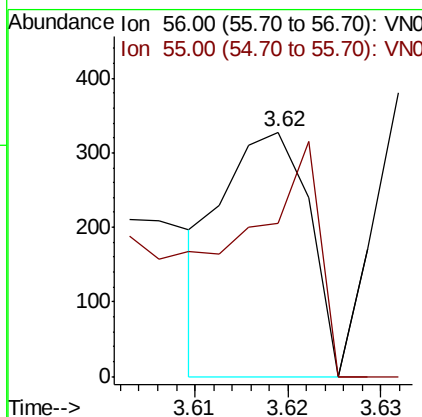
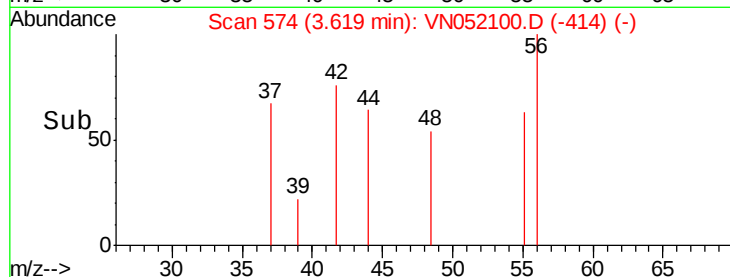
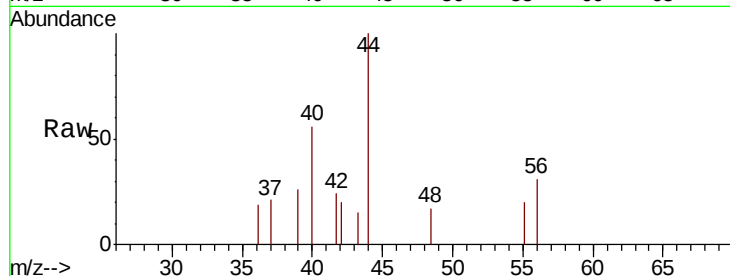
BEL-02-CONT-PIPE-WATER

Tgt Ion: 56 Resp: 214

Ion Ratio Lower Upper

56 100

55 65.0 56.2 84.2



#15

Acetone

Concen: 0.258 ug/l

RT: 4.01 min Scan# 696

Delta R.T. 0.19 min

Lab File: VN052100.D

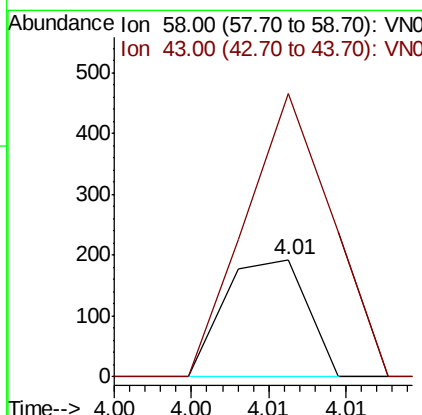
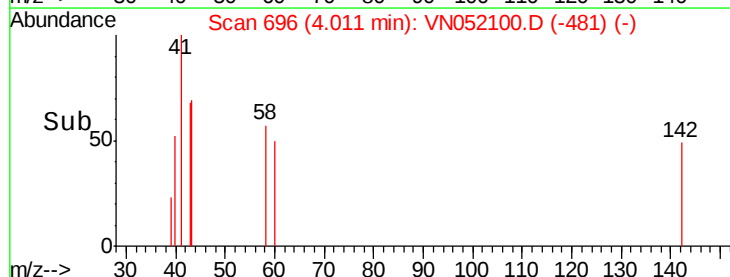
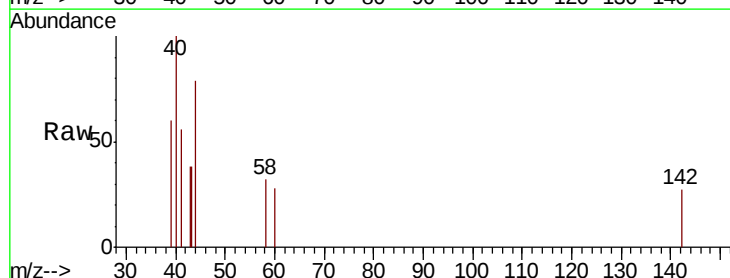
Acq: 1 Nov 2018 13:47

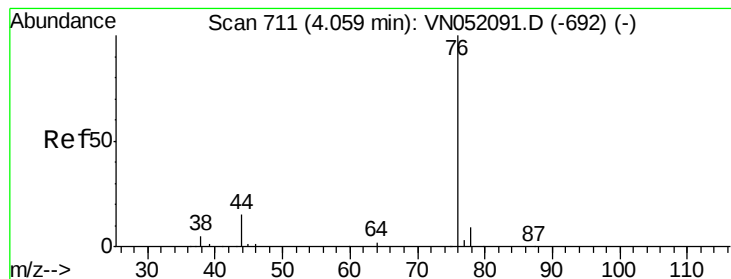
Tgt Ion: 58 Resp: 71

Ion Ratio Lower Upper

58 100

43 240.9 234.7 352.1





#16

Carbon Disulfide

Concen: 0.381 ug/l

RT: 4.06 min Scan# 711

Delta R.T. -0.00 min

Lab File: VN052100.D

Acq: 1 Nov 2018 13:47

Instrument :

MSVOA_N

ClientSampleId :

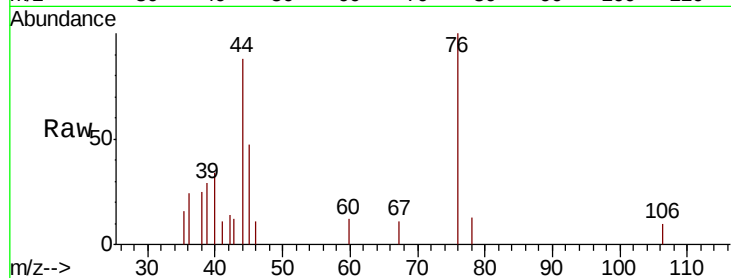
BEL-02-CONT-PIPE-WATER

Tgt Ion: 76 Resp: 3507

Ion Ratio Lower Upper

76 100

78 12.6 7.0 10.6#



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

4.06

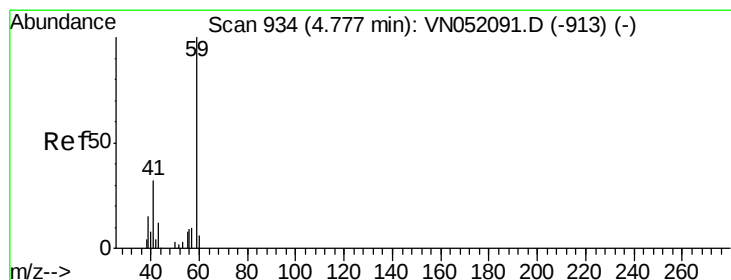
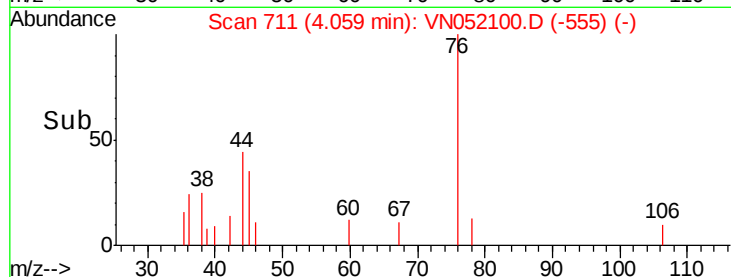
1500

1000

500

0

Time-->



#23

tert-Butyl Alcohol

Concen: 0.931 ug/l

RT: 4.79 min Scan# 939

Delta R.T. 0.02 min

Lab File: VN052100.D

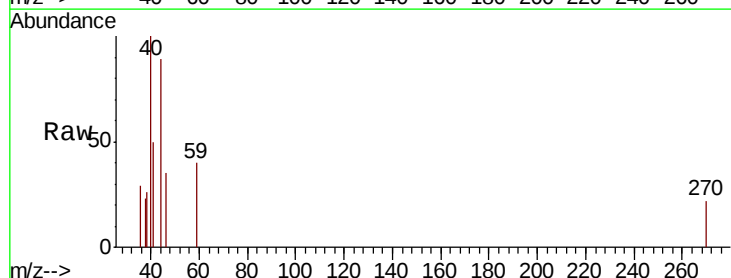
Acq: 1 Nov 2018 13:47

Tgt Ion: 59 Resp: 169

Ion Ratio Lower Upper

59 100

52 43.2 0.3 0.5#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

4.79

300

250

200

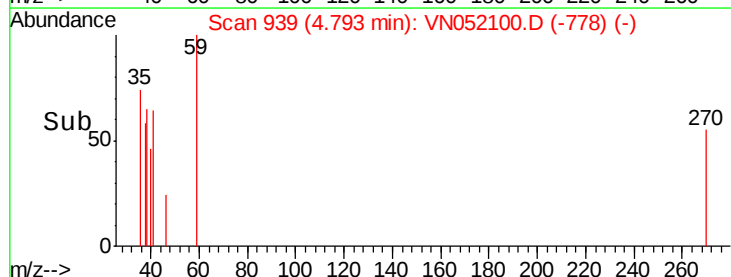
150

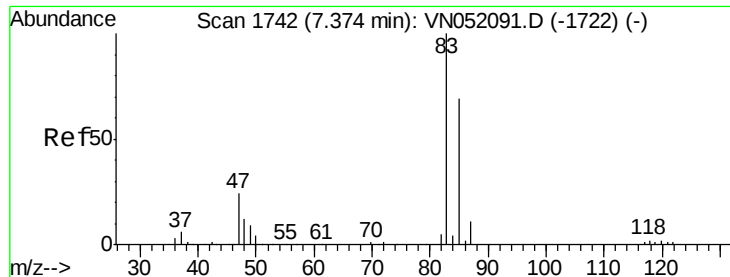
100

50

0

Time-->

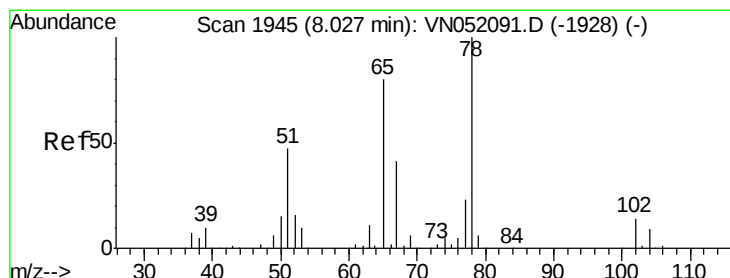
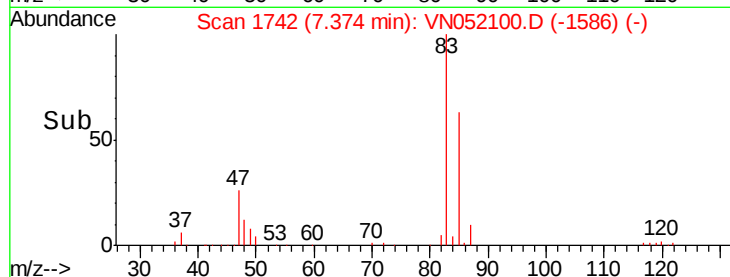
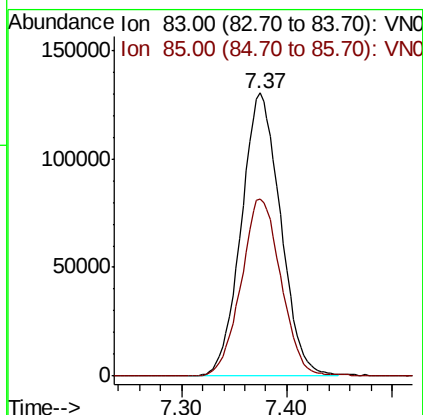
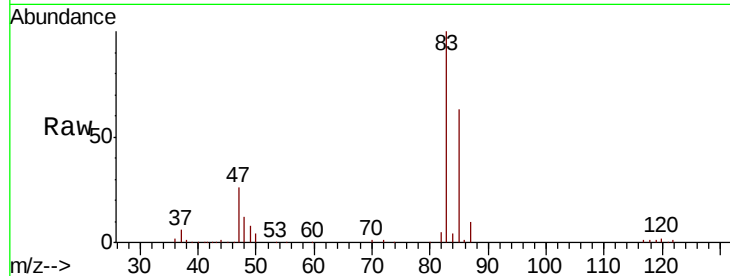




#25
Chloroform
Concen: 49.935 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. -0.00 min
Lab File: VN052100.D
Acq: 1 Nov 2018 13:47

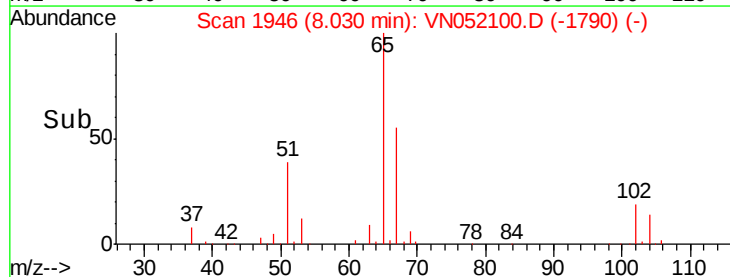
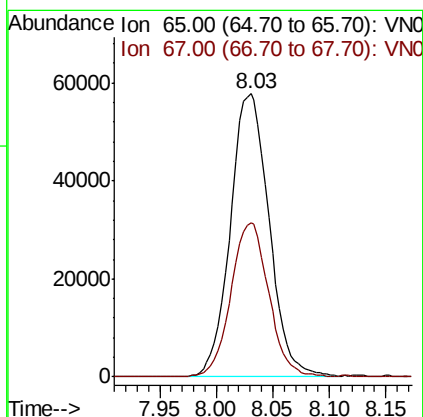
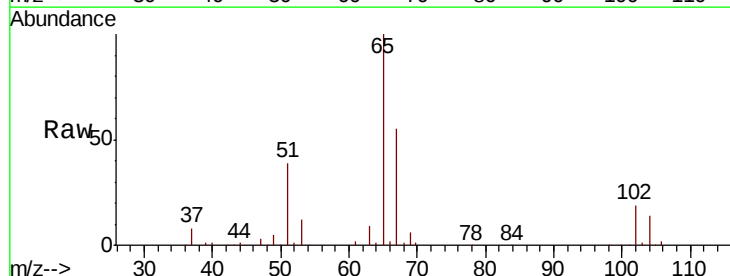
Instrument :
MSVOA_N
ClientSampleId :
BEL-02-CONT-PIPE-WATER

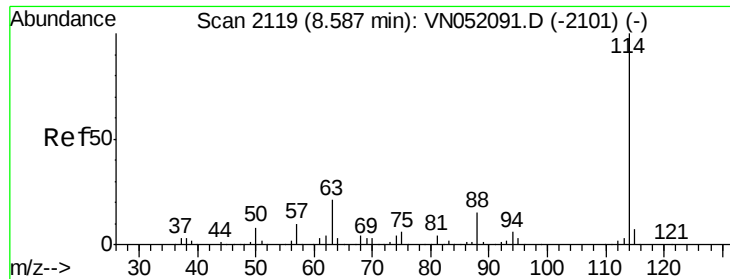
Tgt Ion: 83 Resp: 337327
Ion Ratio Lower Upper
83 100
85 62.7 54.9 82.3



#27
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN052100.D
Acq: 1 Nov 2018 13:47

Tgt Ion: 65 Resp: 137926
Ion Ratio Lower Upper
65 100
67 53.2 42.6 64.0

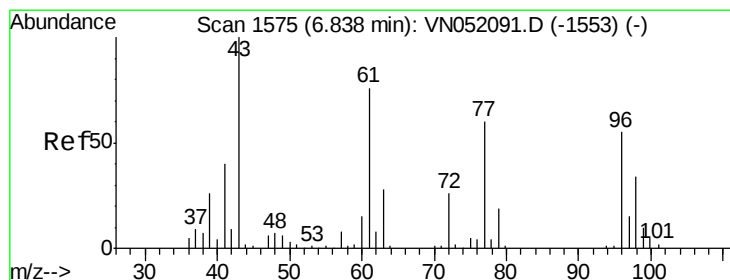
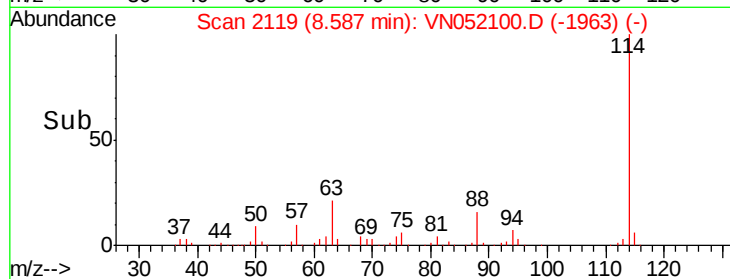
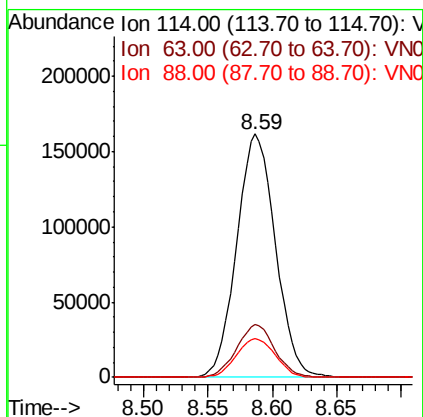
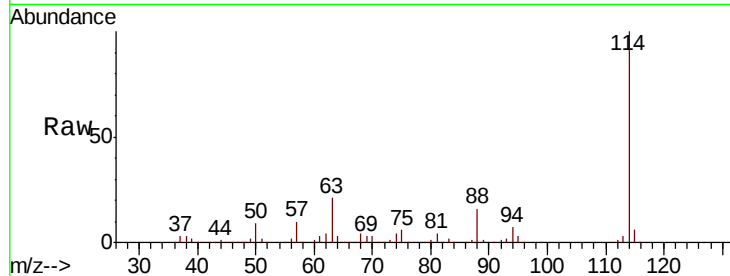




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052100.D
 Acq: 1 Nov 2018 13:47

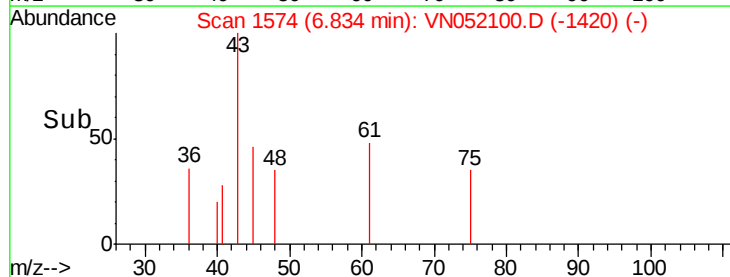
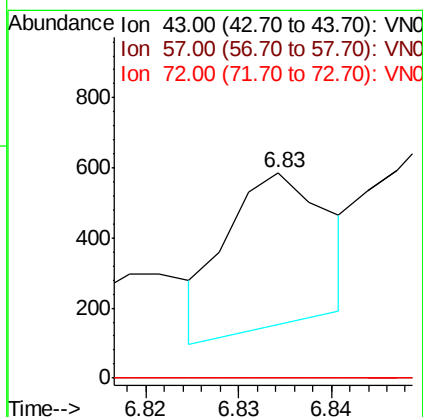
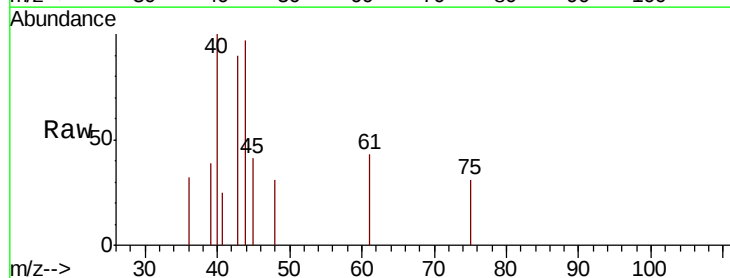
Instrument :
 MSVOA_N
 ClientSampleId :
 BEL-02-CONT-PIPE-WATER

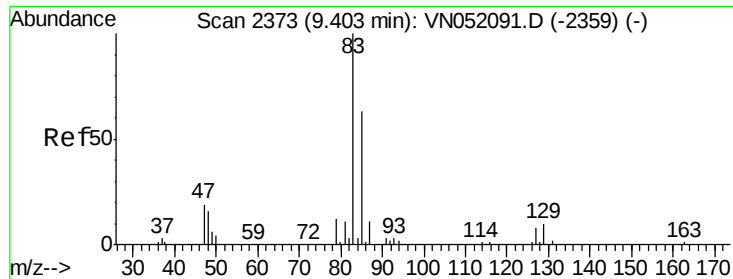
Tgt Ion: 114 Resp: 338103
 Ion Ratio Lower Upper
 114 100
 63 21.4 17.5 26.3
 88 16.2 12.6 18.8



#30
 2-Butanone
 Concen: 0.234 ug/l
 RT: 6.83 min Scan# 1574
 Delta R.T. -0.00 min
 Lab File: VN052100.D
 Acq: 1 Nov 2018 13:47

Tgt Ion: 43 Resp: 334
 Ion Ratio Lower Upper
 43 100
 57 0.0 6.6 9.8#
 72 0.0 9.2 13.8#





#41

Bromodichloromethane

Concen: 3.369 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN052100.D

Acq: 1 Nov 2018 13:47

Instrument :

MSVOA_N

ClientSampleId :

BEL-02-CONT-PIPE-WATER

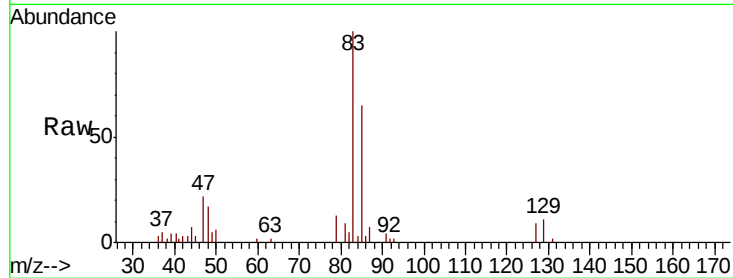
Tgt Ion: 83 Resp: 17778

Ion Ratio Lower Upper

83 100

85 65.4 50.2 75.2

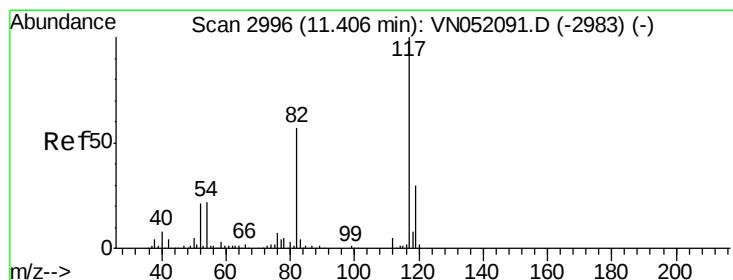
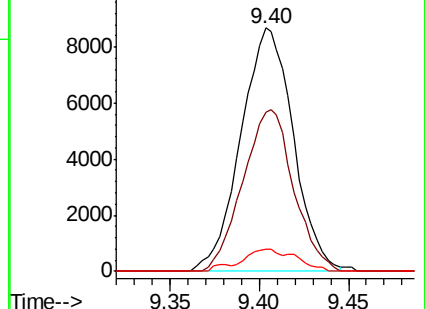
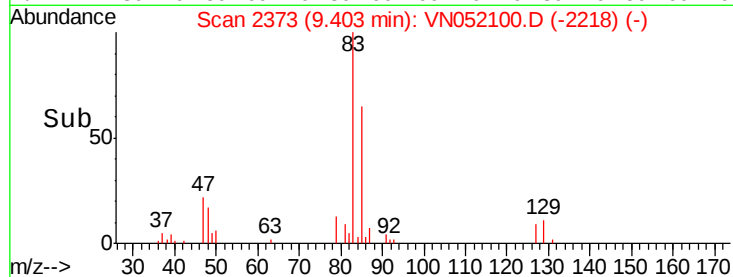
127 9.0 6.6 10.0



Abundance Ion 83.00 (82.70 to 83.70): VN052100.D (-2359) (-)

Ion 85.00 (84.70 to 85.70): VN052100.D (-2359) (-)

Ion 127.00 (126.70 to 127.70): VN052100.D (-2359) (-)



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN052100.D

Acq: 1 Nov 2018 13:47

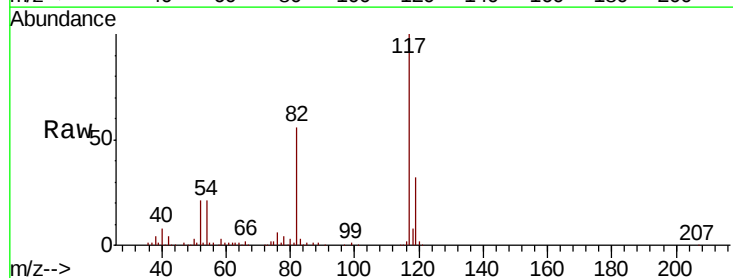
Tgt Ion: 117 Resp: 289278

Ion Ratio Lower Upper

117 100

82 56.2 45.0 67.6

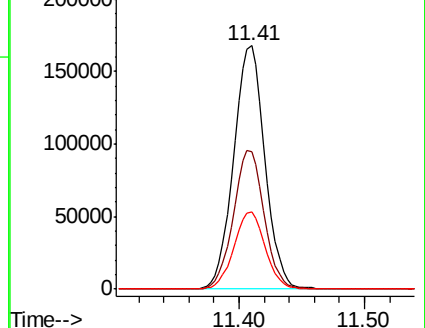
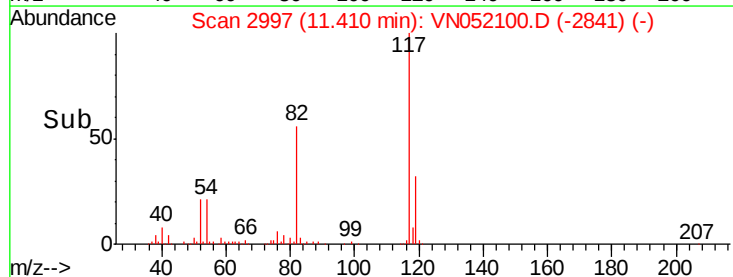
119 31.9 24.2 36.4

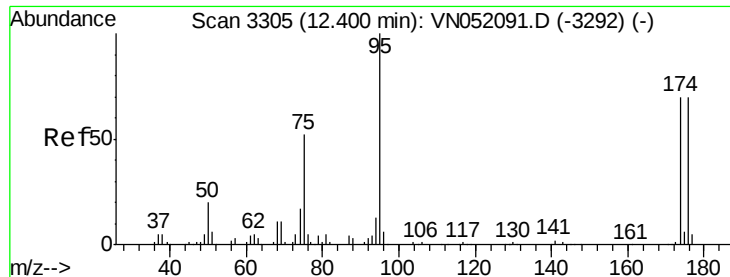


Abundance Ion 117.00 (116.70 to 117.70): VN052100.D (-2983) (-)

Ion 82.00 (81.70 to 82.70): VN052100.D (-2983) (-)

Ion 119.00 (118.70 to 119.70): VN052100.D (-2983) (-)





#60

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN052100.D

Acq: 1 Nov 2018 13:47

Instrument :

MSVOA_N

ClientSampleId :

BEL-02-CONT-PIPE-WATER

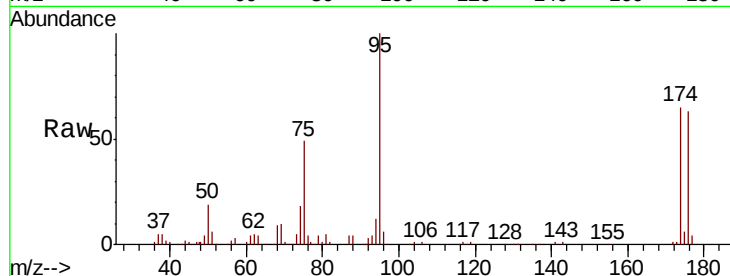
Tgt Ion: 95 Resp: 128617

Ion Ratio Lower Upper

95 100

174 69.2 55.0 82.6

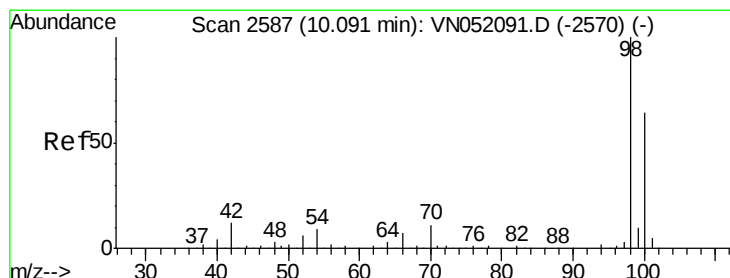
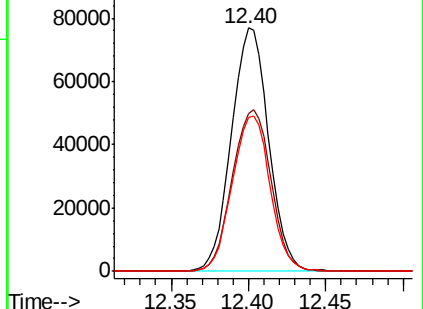
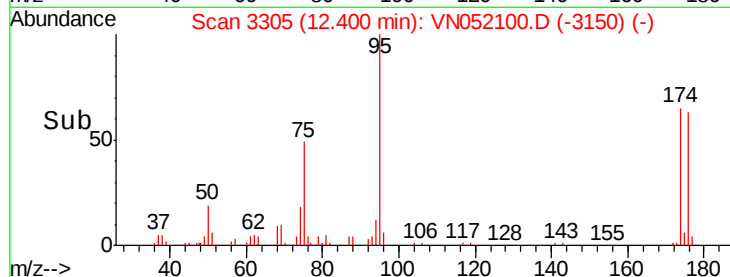
176 65.2 54.2 81.4



Abundance Ion 95.00 (94.70 to 95.70): VN052100.D (-3150) (-)

Ion 174.00 (173.70 to 174.70): VN052100.D (-3150) (-)

Ion 176.00 (175.70 to 176.70): VN052100.D (-3150) (-)



#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052100.D

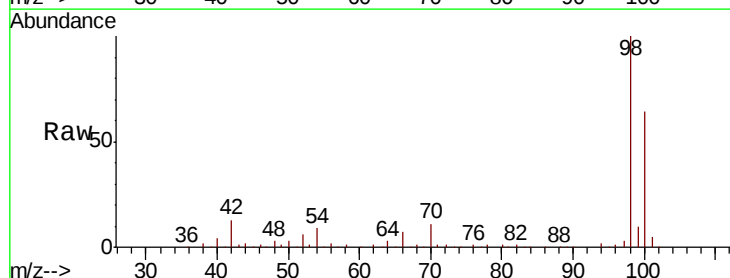
Acq: 1 Nov 2018 13:47

Tgt Ion: 98 Resp: 413651

Ion Ratio Lower Upper

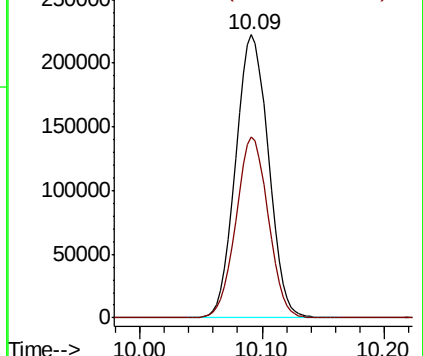
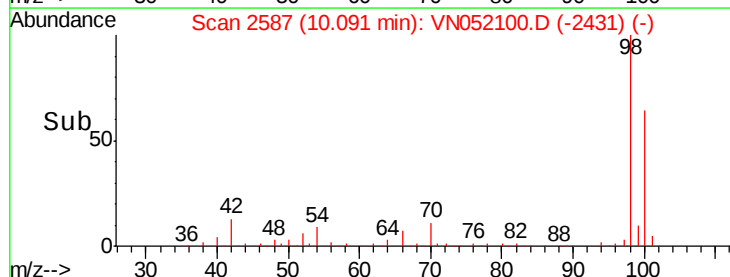
98 100

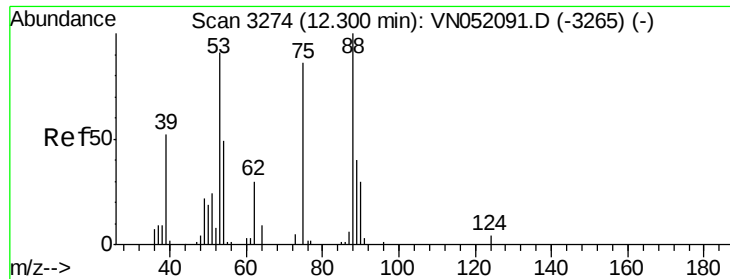
100 62.9 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN052100.D (-2431) (-)

Ion 100.00 (99.70 to 100.70): VN052100.D (-2431) (-)

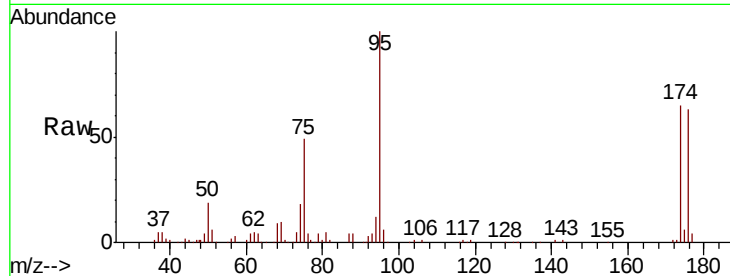




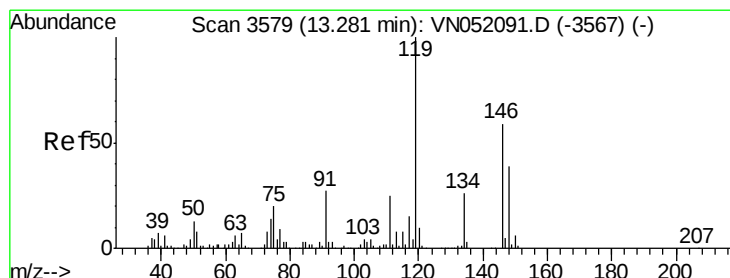
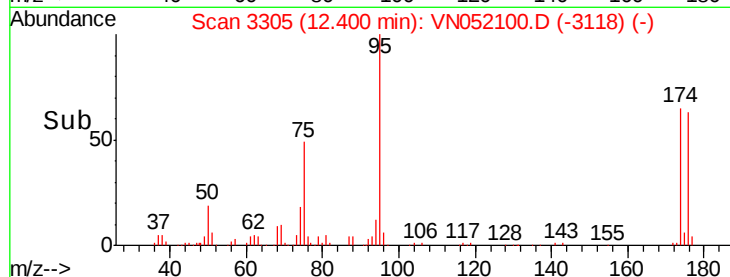
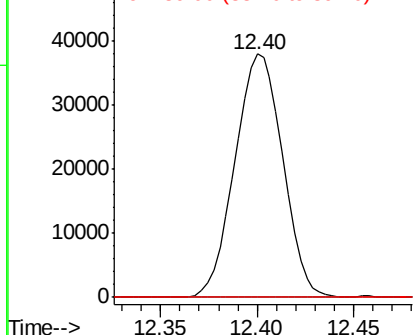
#77
t-1,4-Dichloro-2-butene
Concen: 62.438 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN052100.D
Acq: 1 Nov 2018 13:47

Instrument :
MSVOA_N
ClientSampleId :
BEL-02-CONT-PIPE-WATER

Tgt Ion: 75 Resp: 65303
Ion Ratio Lower Upper
75 100
53 0.0 50.7 152.1#
89 0.0 23.8 71.5#

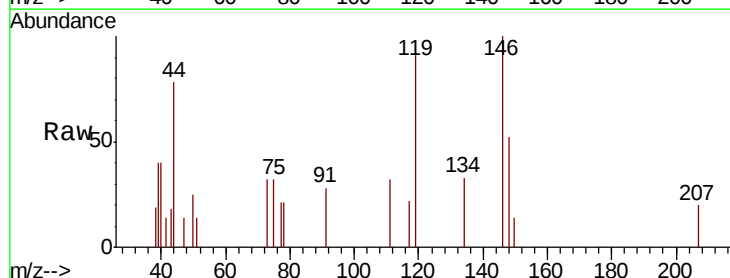


Abundance Ion 75.00 (74.70 to 75.70): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 89.00 (88.70 to 89.70): VN0

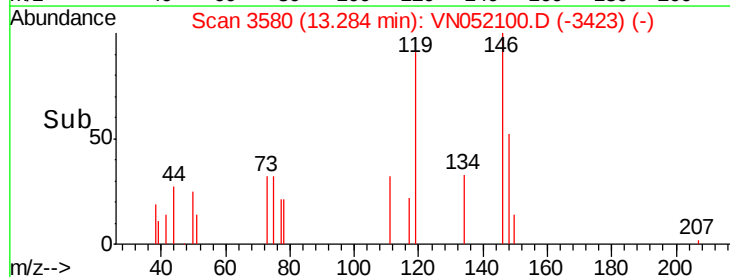
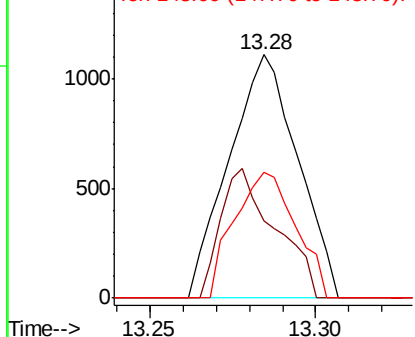


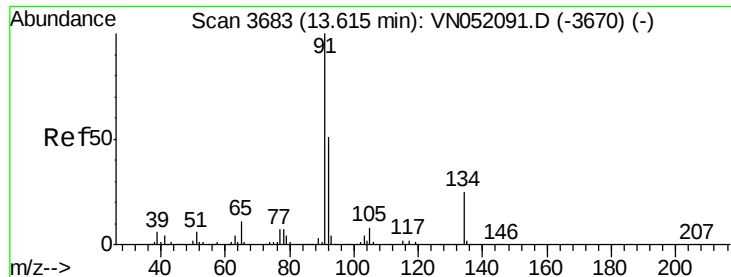
#83
1,3-Dichlorobenzene
Concen: 0.236 ug/l
RT: 13.28 min Scan# 3580
Delta R.T. 0.00 min
Lab File: VN052100.D
Acq: 1 Nov 2018 13:47

Tgt Ion: 146 Resp: 1602
Ion Ratio Lower Upper
146 100
111 42.3 21.0 63.0
148 46.3 33.4 100.2



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V

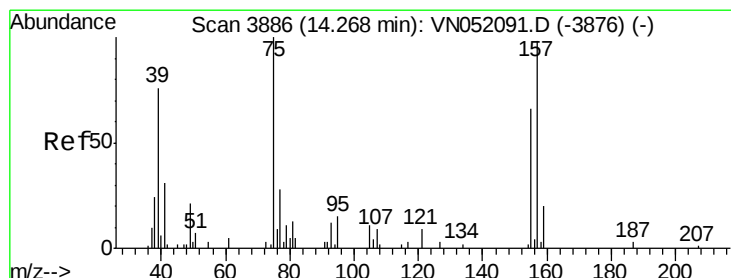
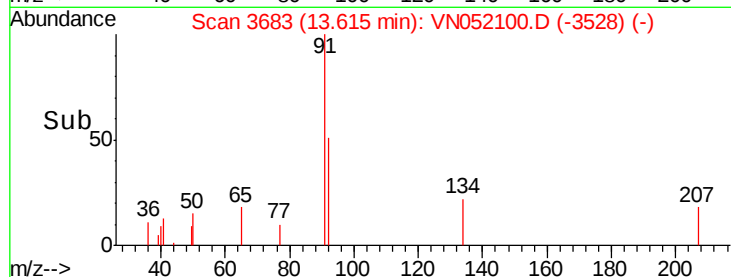
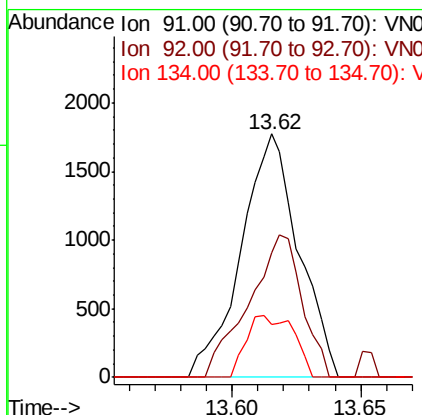
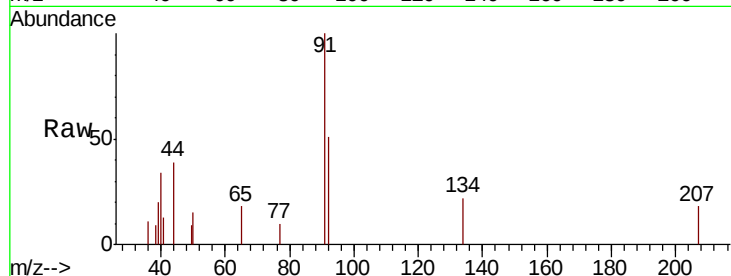




#85
n-Butylbenzene
Concen: 0.228 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN052100.D
Acq: 1 Nov 2018 13:47

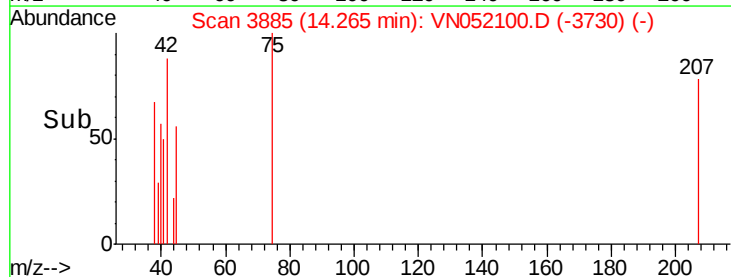
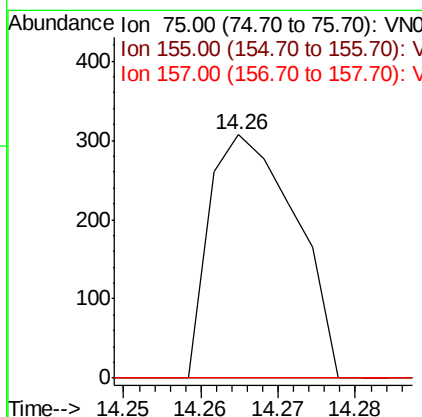
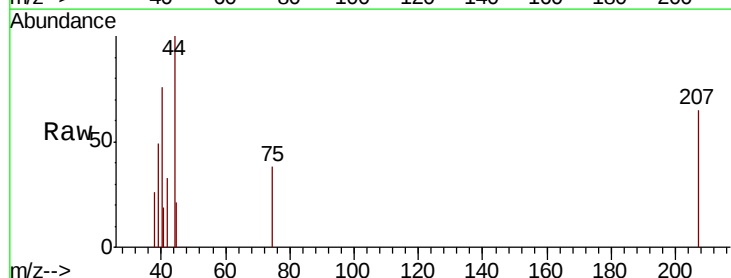
Instrument :
MSVOA_N
ClientSampleId :
BEL-02-CONT-PIPE-WATER

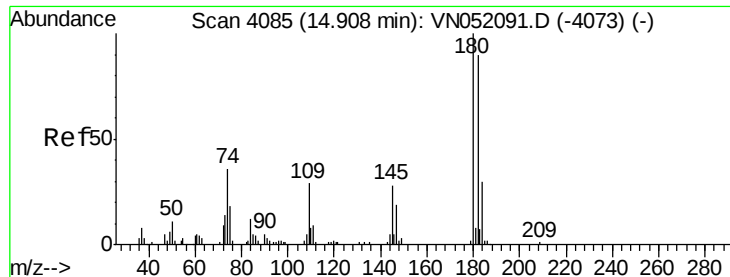
Tgt Ion: 91 Resp: 2769
Ion Ratio Lower Upper
91 100
92 54.0 0.0 102.8
134 12.0 0.0 49.2



#88
1,2-Dibromo-3-Chloropropane
Concen: 0.456 ug/l
RT: 14.26 min Scan# 3885
Delta R.T. -0.00 min
Lab File: VN052100.D
Acq: 1 Nov 2018 13:47

Tgt Ion: 75 Resp: 237
Ion Ratio Lower Upper
75 100
155 0.0 56.7 85.1#
157 0.0 80.4 120.6#

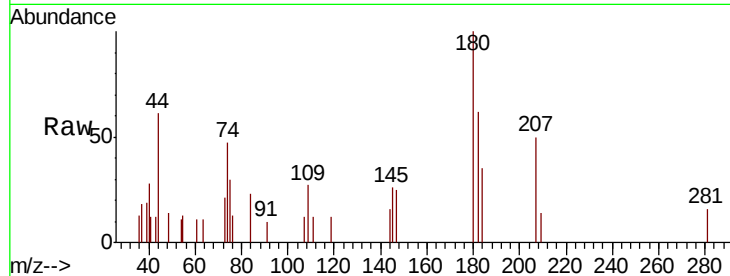




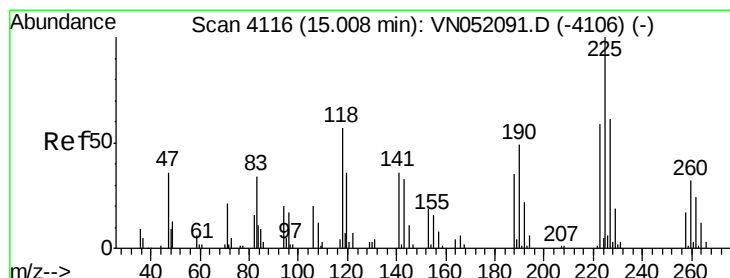
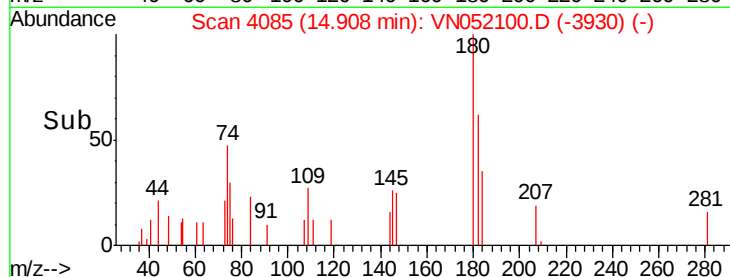
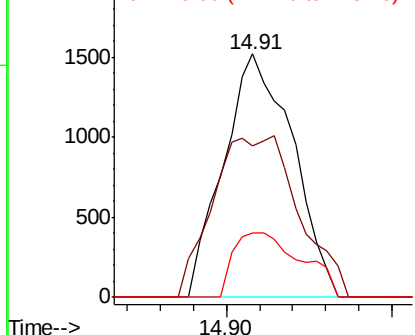
#89
 1,2,4-Trichlorobenzene
 Concen: 0.844 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN052100.D
 Acq: 1 Nov 2018 13:47

Instrument :
 MSVOA_N
 ClientSampleId :
 BEL-02-CONT-PIPE-WATER

Tgt Ion:180 Resp: 2204
 Ion Ratio Lower Upper
 180 100
 182 42.2 74.0 111.0#
 145 22.5 24.6 36.8#

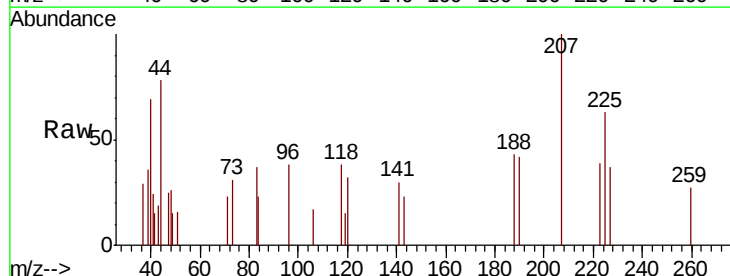


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

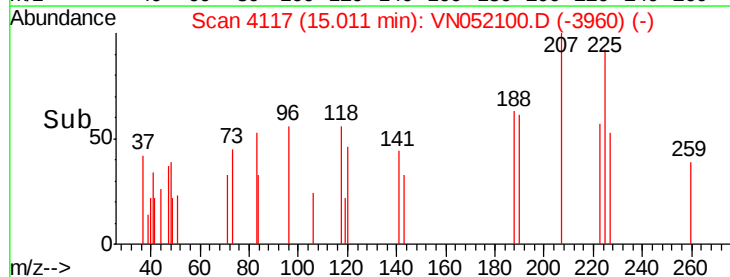
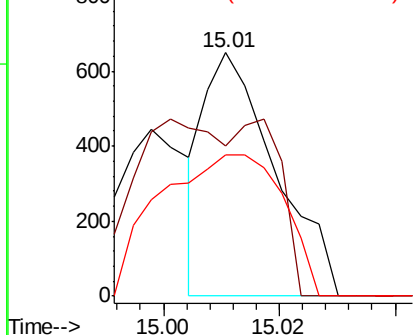


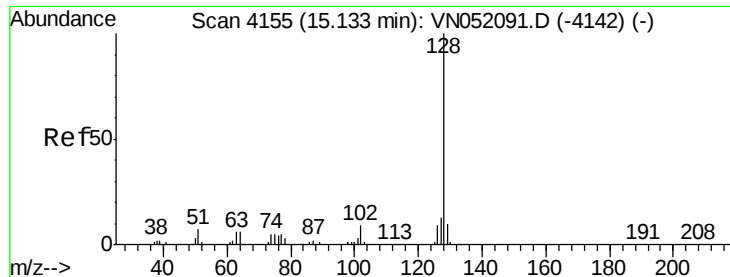
#90
 Hexachlorobutadiene
 Concen: 0.387 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN052100.D
 Acq: 1 Nov 2018 13:47

Tgt Ion:225 Resp: 553
 Ion Ratio Lower Upper
 225 100
 223 44.8 0.0 121.2
 227 101.4 0.0 127.2



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V





#91

Naphthalene

Concen: 0.878 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN052100.D

Acq: 1 Nov 2018 13:47

Instrument :

MSVOA_N

ClientSampleId :

BEL-02-CONT-PIPE-WATER

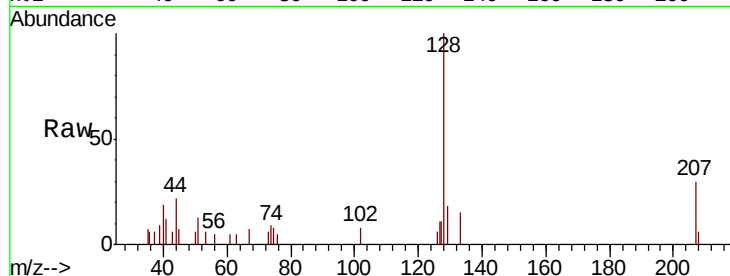
Tgt Ion:128 Resp: 5286

Ion Ratio Lower Upper

128 100

127 1.9 10.4 15.6#

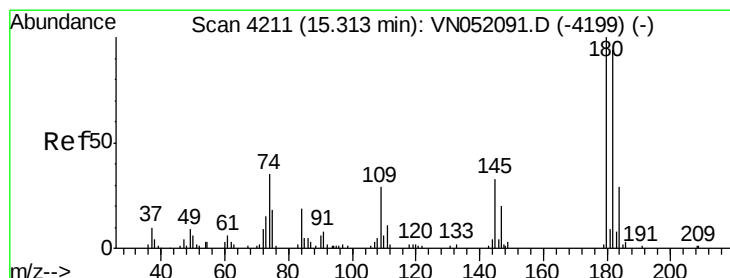
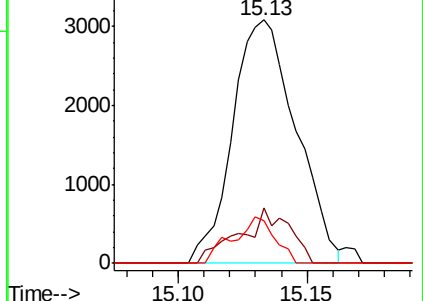
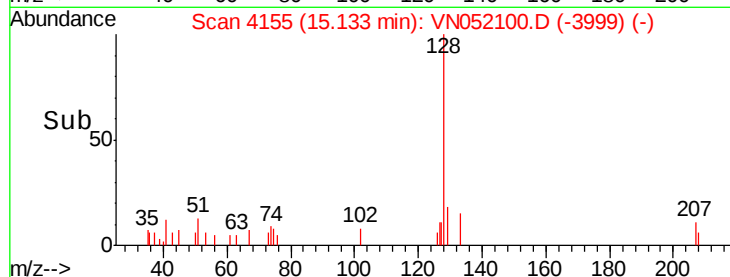
129 9.7 8.3 12.5



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



#92

1,2,3-Trichlorobenzene

Concen: 1.150 ug/l

RT: 15.32 min Scan# 4213

Delta R.T. 0.01 min

Lab File: VN052100.D

Acq: 1 Nov 2018 13:47

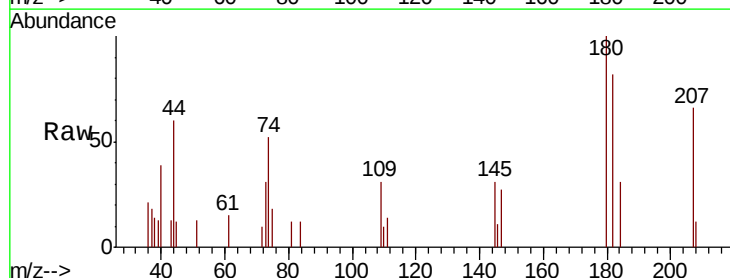
Tgt Ion:180 Resp: 2618

Ion Ratio Lower Upper

180 100

182 86.1 0.0 186.6

145 23.3 0.0 66.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

