

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090618\
 Data File : VN051031.D
 Acq On : 6 Sep 2018 13:24
 Operator : MD\SY
 Sample : J4799-01 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WASTE-WATER

Quant Time: Sep 07 00:54:41 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:38:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	129131	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	675345	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	582868	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.03	65	259934	31.54	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.13%
60) 4-Bromofluorobenzene	12.40	95	221458	25.55	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	85.17%
63) Toluene-d8	10.09	98	788625	29.01	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.70%

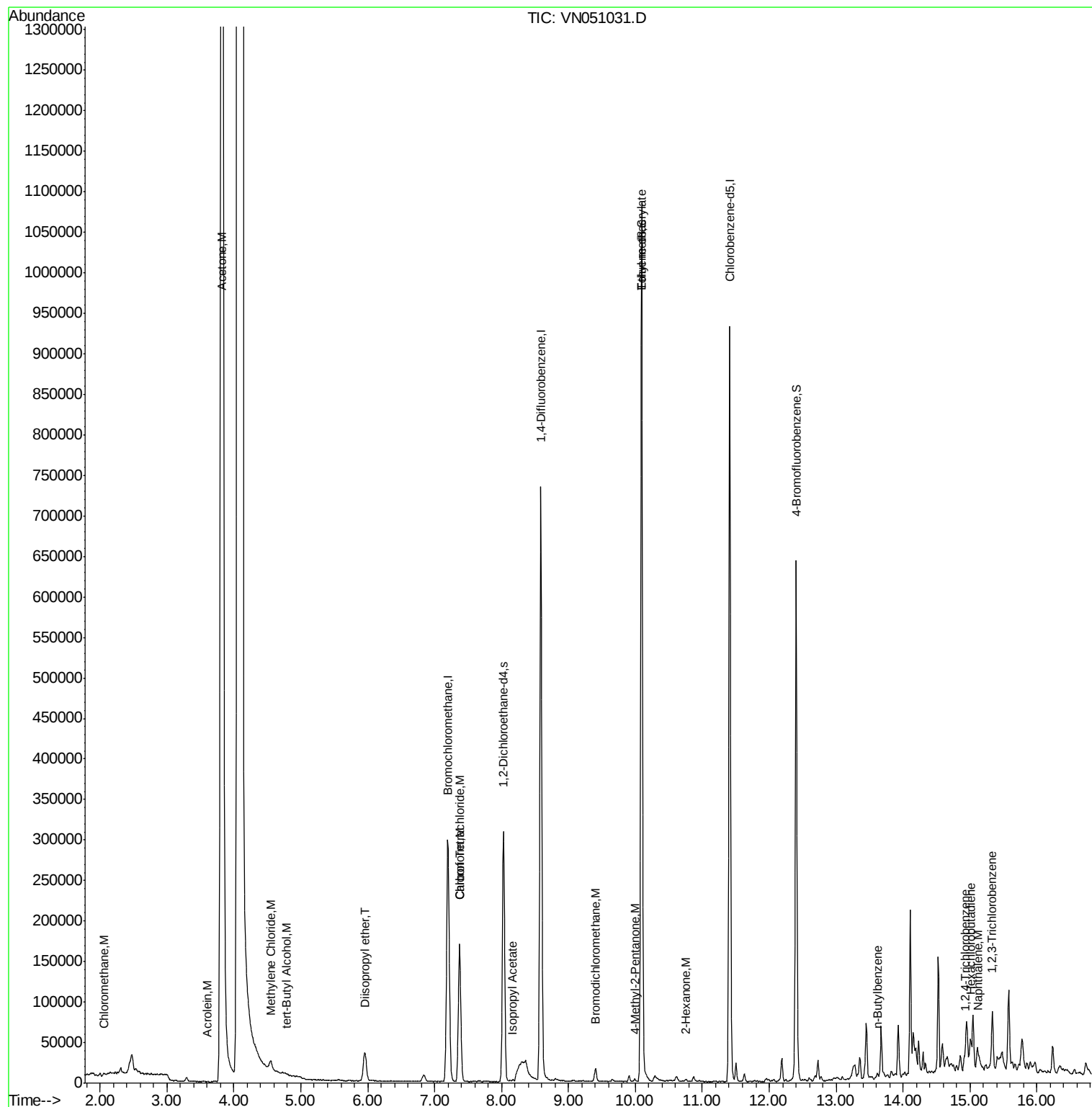
Target Compounds						Ovalue
3) Chloromethane	2.05	50	2323	0.25	ug/l	90
13) Acrolein	3.60	56	128	0.72	ug/l	97
15) Acetone	3.82	58	1815489	2600.76	ug/l	96
18) Methylene Chloride	4.55	84	7399	0.90	ug/l	97
20) Diisopropyl ether	5.96	45	44492	1.95	ug/l	94
23) tert-Butyl Alcohol	4.80	59	582	1.00	ug/l #	100
25) Chloroform	7.37	83	183888	13.19	ug/l	99
33) Carbon Tetrachloride	7.37	117	2384	0.23	ug/l #	81
41) Bromodichloromethane	9.41	83	11469	1.11	ug/l	99
44) Isopropyl Acetate	8.17	43	2579	0.23	ug/l #	68
51) Ethyl methacrylate	10.10	69	2394	0.27	ug/l	94
58) 4-Methyl-2-Pentanone	9.99	43	1503	0.23	ug/l #	85
59) 2-Hexanone	10.76	43	2624	0.60	ug/l #	82
85) n-Butylbenzene	13.62	91	4211	0.21	ug/l	90
89) 1,2,4-Trichlorobenzene	14.91	180	2967	0.46	ug/l	94
90) Hexachlorobutadiene	15.01	225	2800	0.64	ug/l	88
91) Naphthalene	15.14	128	8252	8.99	ug/l	96
92) 1,2,3-Trichlorobenzene	15.32	180	3512	0.55	ug/l	95

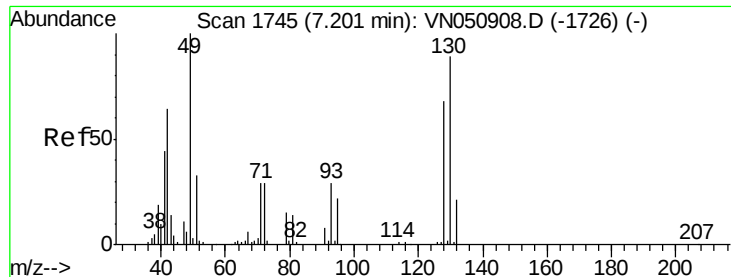
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN051031.D

Acq: 6 Sep 2018 13:24

Instrument :

MSVOA_N

ClientSampleId :

EFF-WASTE-WATER

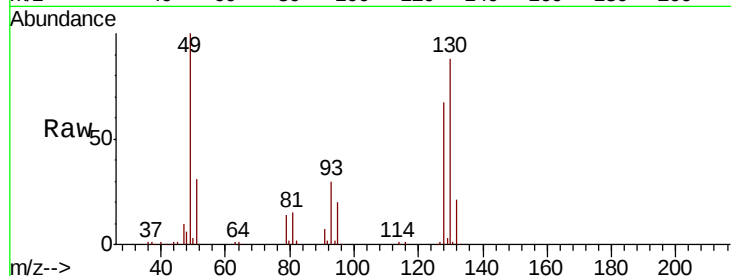
Tot Ion:128 Resp: 129131

Ion Ratio Lower Upper

128 100

49 148.2 0.0 380.3

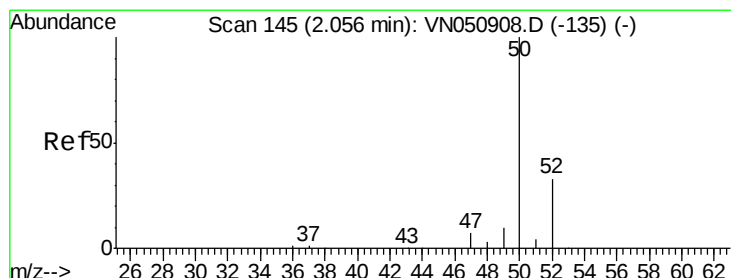
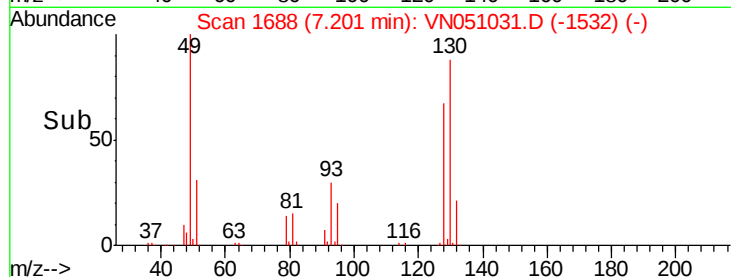
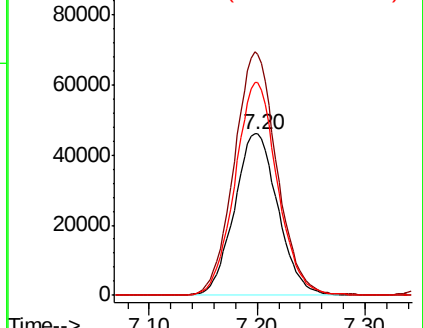
130 128.9 0.0 325.3



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



#3

Chloromethane

Concen: 0.25 ug/l

RT: 2.05 min Scan# 87

Delta R.T. -0.00 min

Lab File: VN051031.D

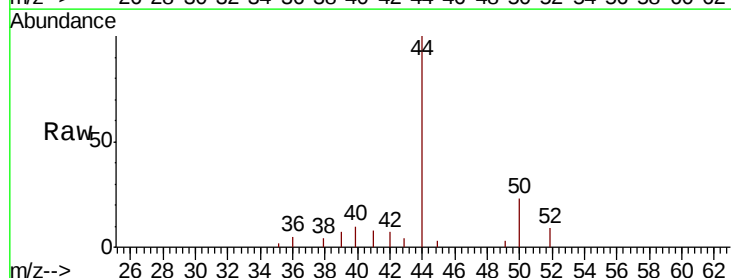
Acq: 6 Sep 2018 13:24

Tgt Ion: 50 Resp: 2323

Ion Ratio Lower Upper

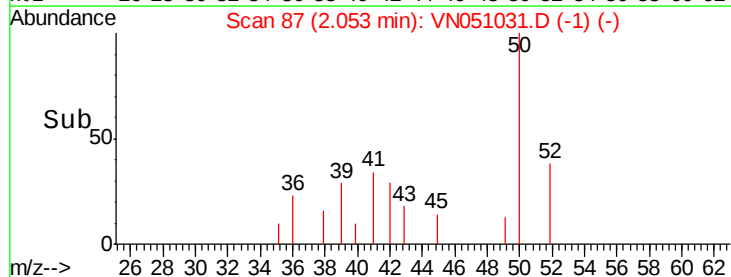
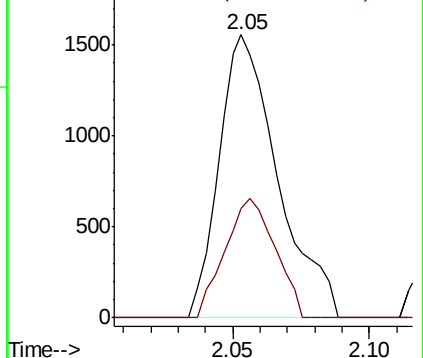
50 100

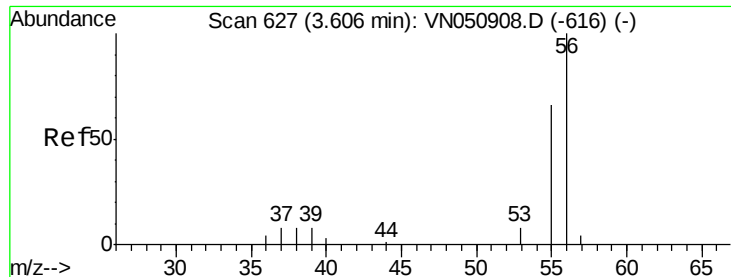
52 38.5 26.2 39.4



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#13

Acrolein

Concen: 0.72 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.01 min

Lab File: VN051031.D

Acq: 6 Sep 2018 13:24

Instrument :

MSVOA_N

ClientSampleId :

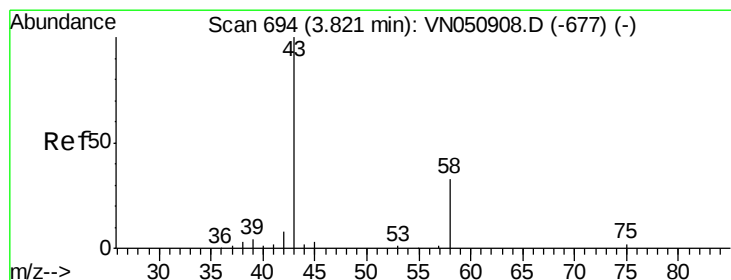
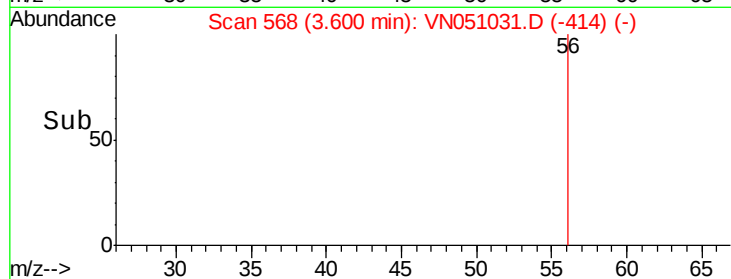
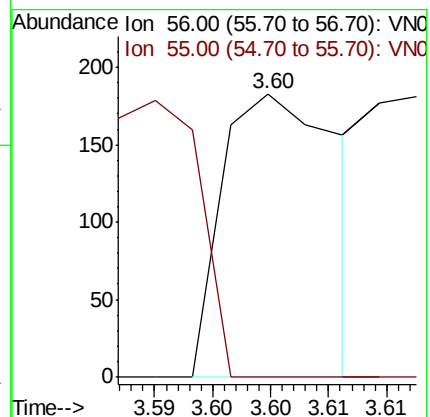
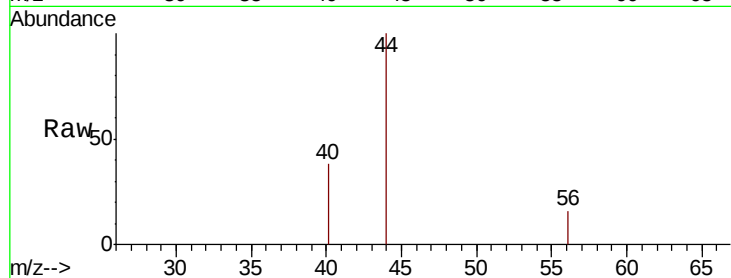
EFF-WASTE-WATER

Tot Ion: 56 Resp: 128

Ion Ratio Lower Upper

56 100

55 76.6 59.1 88.7



#15

Acetone

Concen: 2600.76 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051031.D

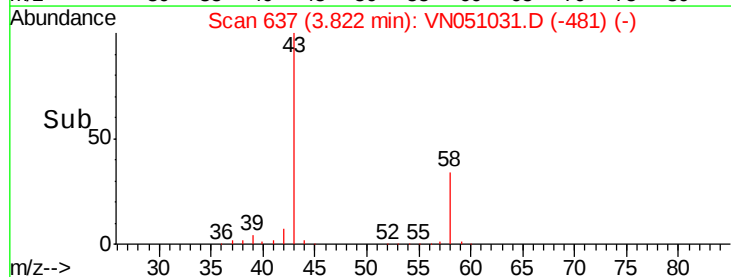
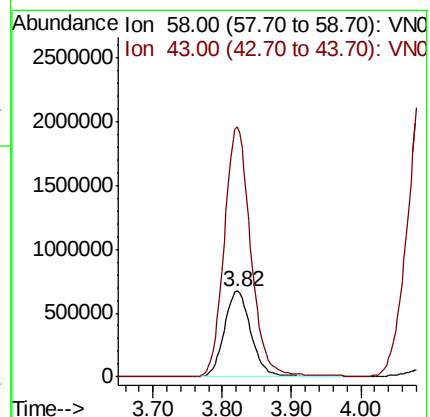
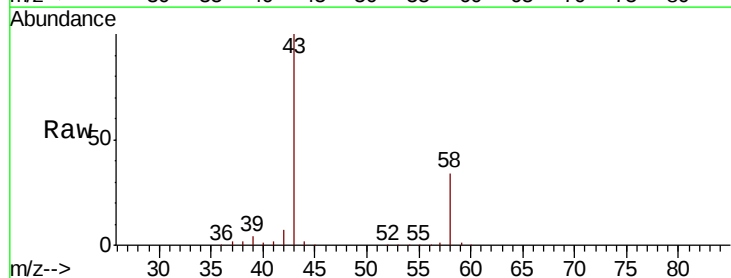
Acq: 6 Sep 2018 13:24

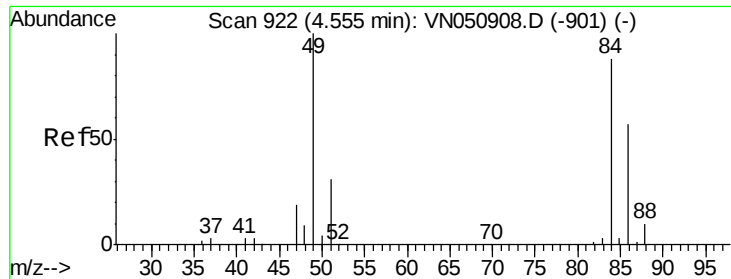
Tgt Ion: 58 Resp: 1815489

Ion Ratio Lower Upper

58 100

43 290.7 239.4 359.0

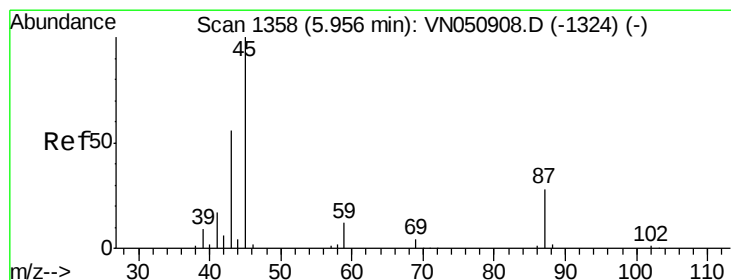
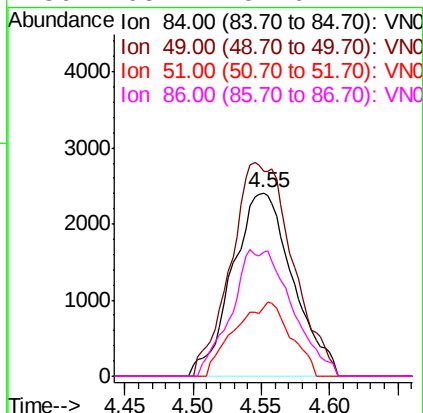
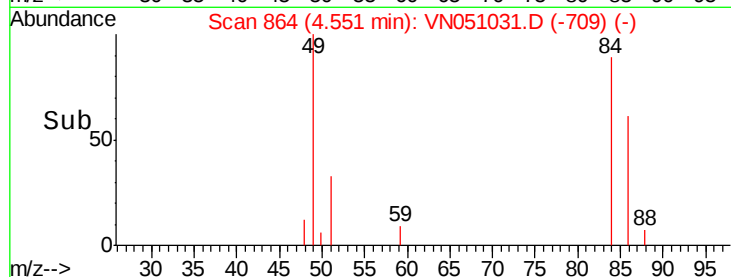
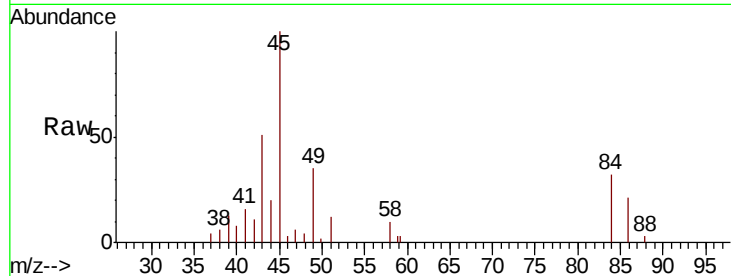




#18
Methvlene Chloride
Concen: 0.90 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN051031.D
Acq: 6 Sep 2018 13:24

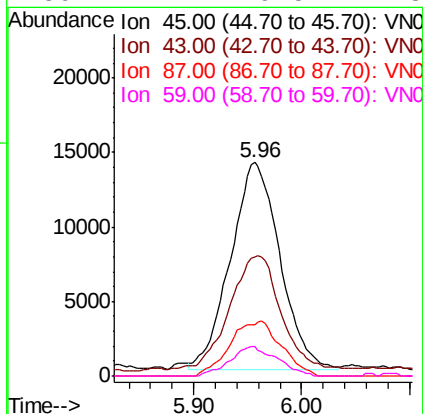
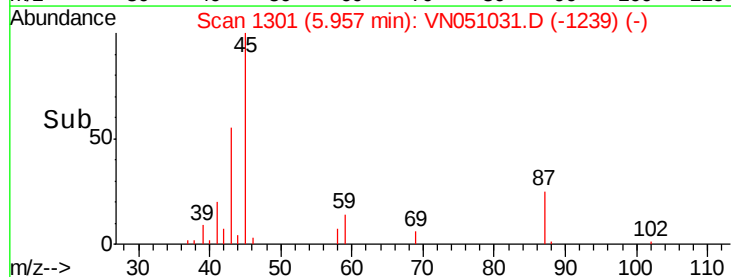
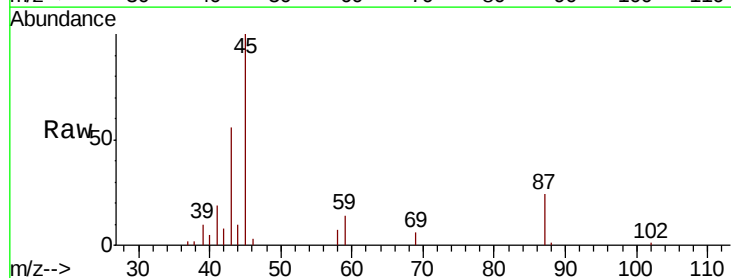
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

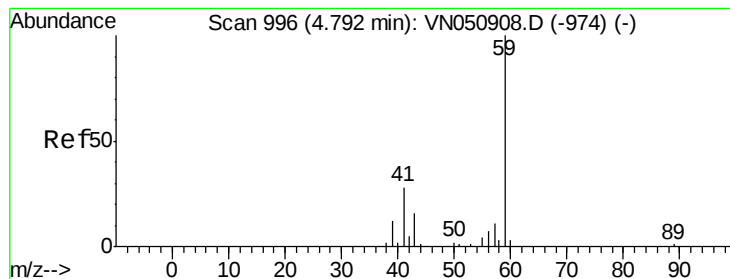
Tot Ion:	84	Resp:	7399
Ion	Ratio	Lower	Upper
84	100		
49	111.9	90.6	135.8
51	37.5	28.4	42.6
86	68.1	51.6	77.4



#20
Diisopropyl ether
Concen: 1.95 ug/l
RT: 5.96 min Scan# 1301
Delta R.T. 0.00 min
Lab File: VN051031.D
Acq: 6 Sep 2018 13:24

Tgt Ion:	45	Resp:	44492
Ion	Ratio	Lower	Upper
45	100		
43	53.9	47.0	70.6
87	25.2	22.8	34.2
59	14.2	9.5	14.3





#23

tert-Butyl Alcohol

Concen: 1.00 ug/l

RT: 4.80 min Scan# 940

Delta R.T. 0.00 min

Lab File: VN051031.D

Acq: 6 Sep 2018 13:24

Instrument :

MSVOA_N

ClientSampleId :

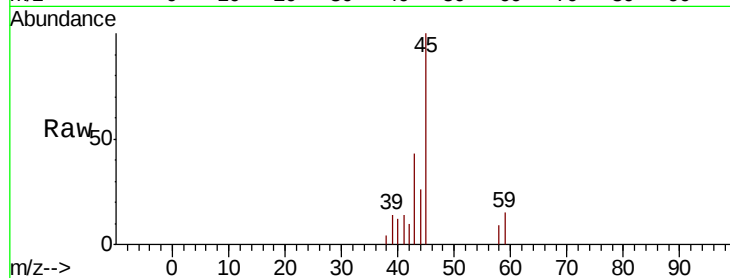
EFF-WASTE-WATER

Tot Ion: 59 Resp: 582

Ion Ratio Lower Upper

59 100

52 0.0 0.1 0.1#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

800

600

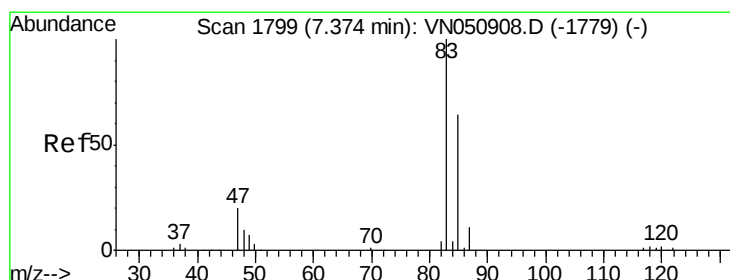
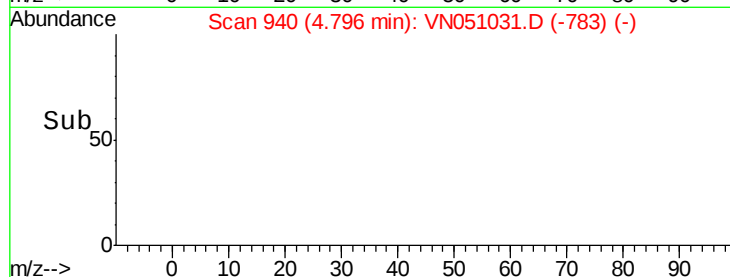
400

200

0

4.78 4.80 4.82

Time-->



#25

Chloroform

Concen: 13.19 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VN051031.D

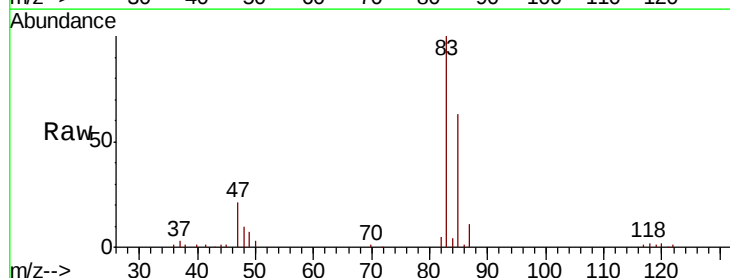
Acq: 6 Sep 2018 13:24

Tgt Ion: 83 Resp: 183888

Ion Ratio Lower Upper

83 100

85 63.5 51.4 77.0



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0

80000

60000

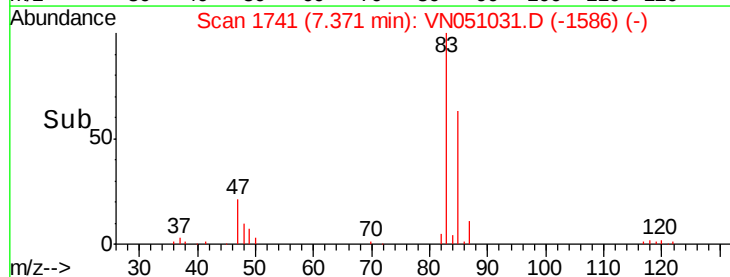
40000

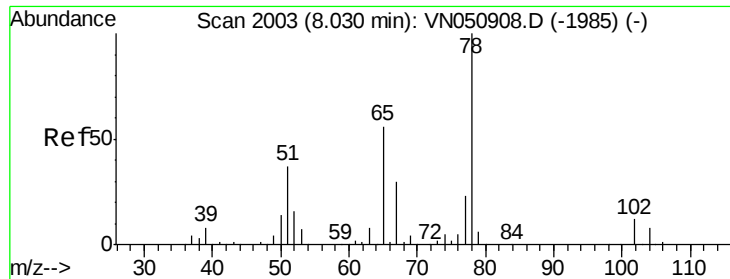
20000

0

7.30 7.40 7.50

Time-->





#27

1,2-Dichloroethane-d4

Concen: 31.54 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN051031.D

Acq: 6 Sep 2018 13:24

Instrument :

MSVOA_N

ClientSampleId :

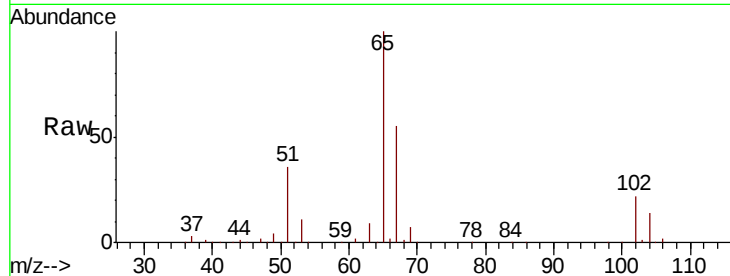
EFF-WASTE-WATER

Tot Ion: 65 Resp: 259934

Ion Ratio Lower Upper

65 100

67 55.0 43.7 65.5



Abundance Ion 65.00 (64.70 to 65.70): VN050908.D (-1985) (-)

Ion 67.00 (66.70 to 67.70): VN050908.D (-1985) (-)

8.03

120000

100000

80000

60000

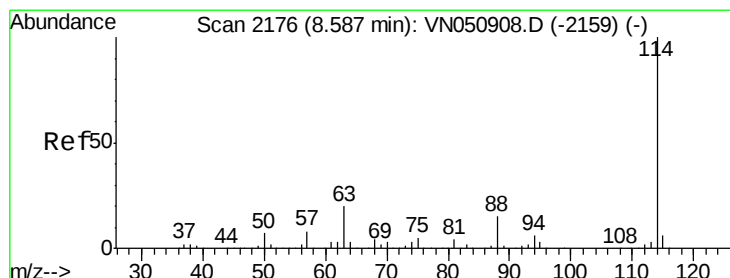
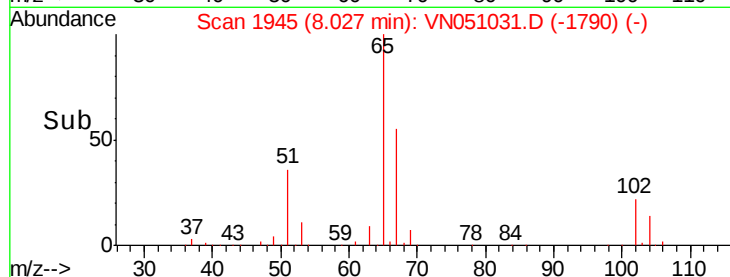
40000

20000

0

8.00 8.10

Time-->



#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN051031.D

Acq: 6 Sep 2018 13:24

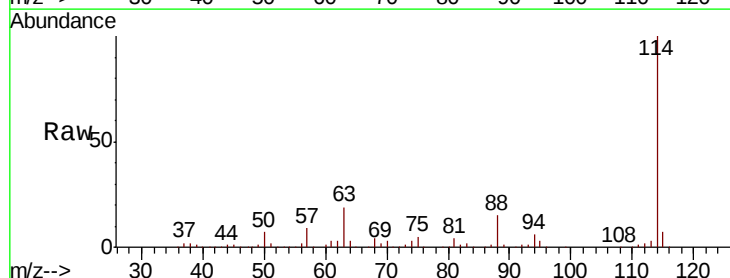
Tgt Ion: 114 Resp: 675345

Ion Ratio Lower Upper

114 100

63 19.2 15.6 23.4

88 15.5 12.2 18.4



Abundance Ion 114.00 (113.70 to 114.70): VN050908.D (-2159) (-)

Ion 63.00 (62.70 to 63.70): VN050908.D (-2159) (-)

Ion 88.00 (87.70 to 88.70): VN050908.D (-2159) (-)

8.59

400000

300000

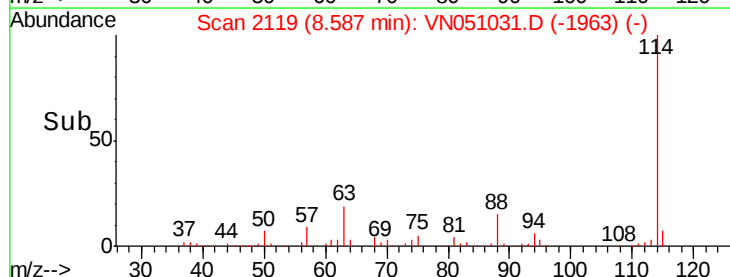
200000

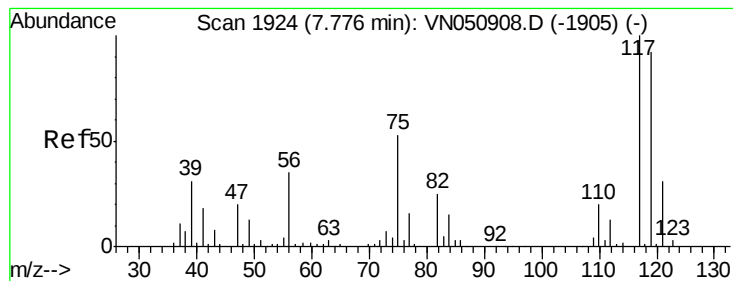
100000

0

8.50 8.60 8.70

Time-->





#33

Carbon Tetrachloride

Concen: 0.23 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. -0.41 min

Lab File: VN051031.D

Acq: 6 Sep 2018 13:24

Instrument :

MSVOA_N

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EFF-WASTE-WATER

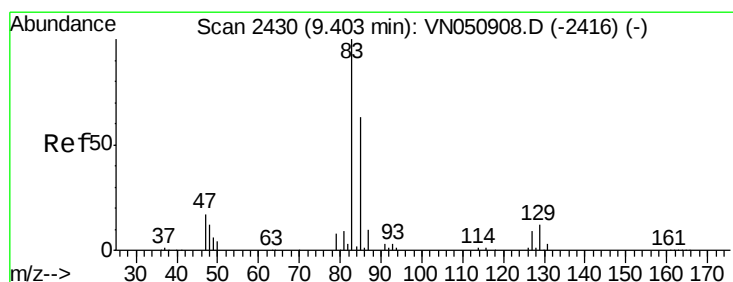
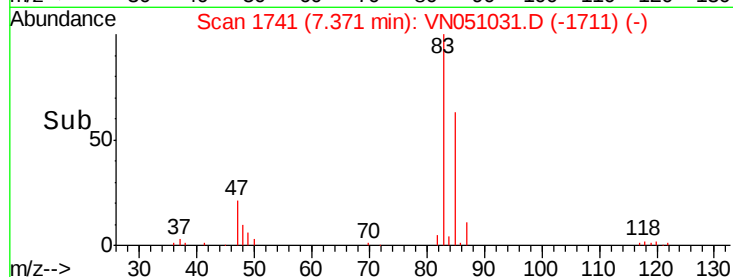
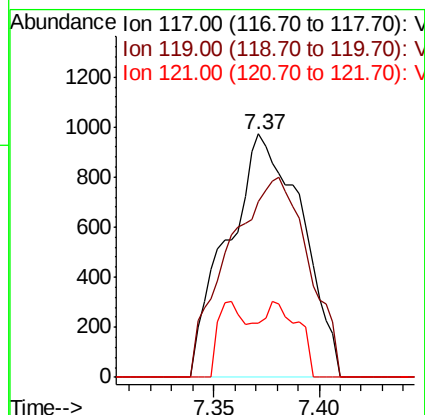
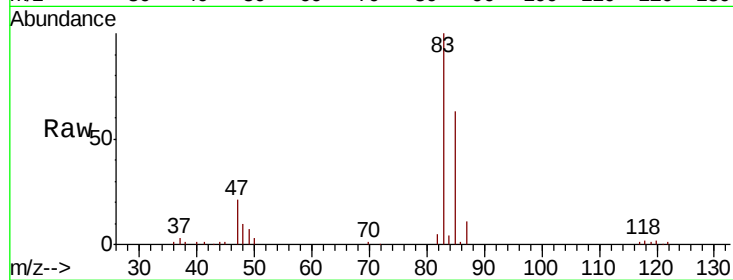
Tot Ion:117 Resp: 2384

Ion Ratio Lower Upper

117 100

119 72.5 73.5 110.3#

121 22.4 24.6 37.0#



#41

Bromodichloromethane

Concen: 1.11 ug/l

RT: 9.41 min Scan# 2374

Delta R.T. 0.00 min

Lab File: VN051031.D

Acq: 6 Sep 2018 13:24

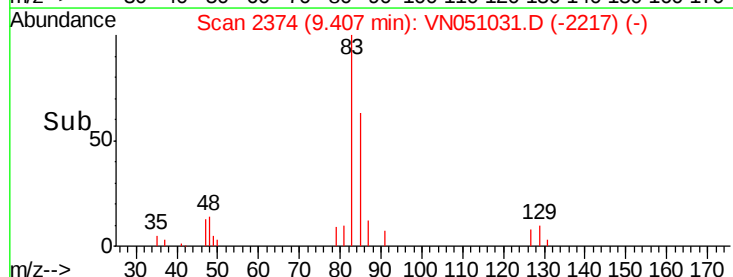
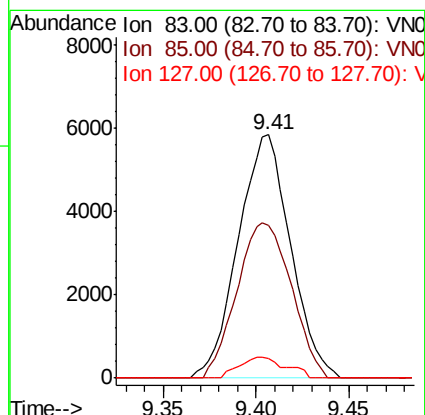
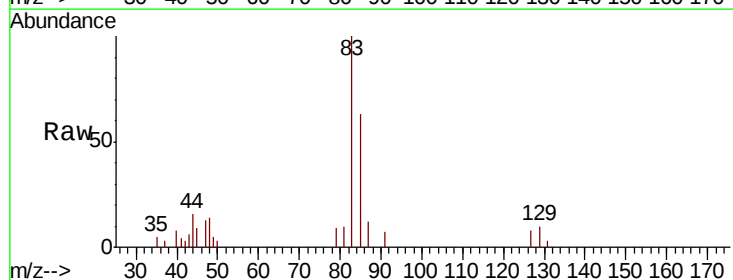
Tgt Ion: 83 Resp: 11469

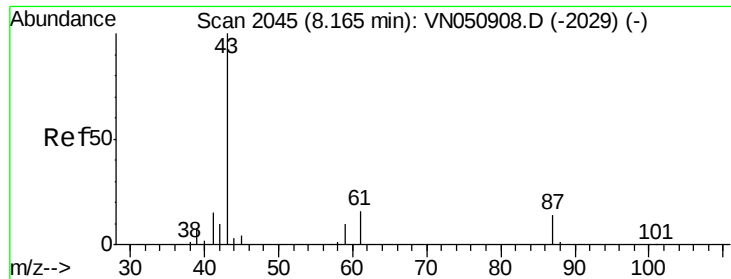
Ion Ratio Lower Upper

83 100

85 62.6 50.6 76.0

127 8.2 7.1 10.7



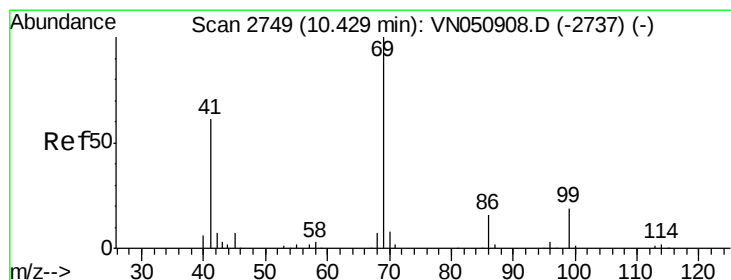
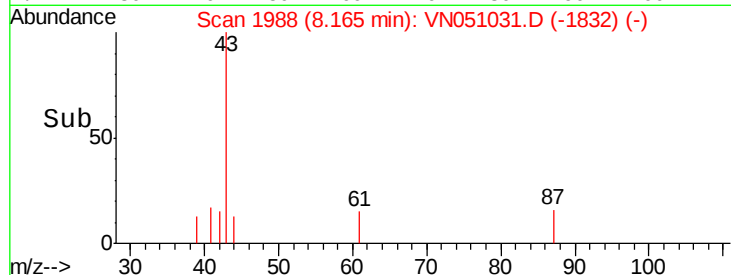
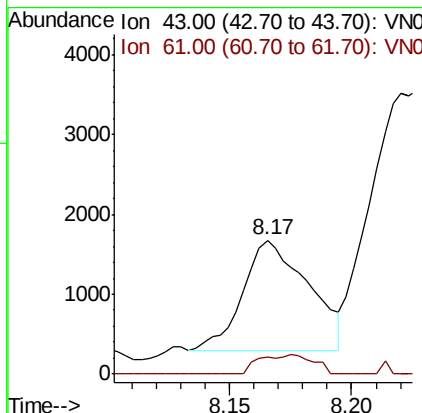
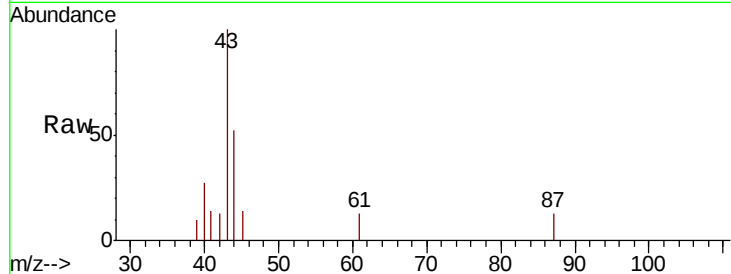


#44

Isopropyl Acetate
 Concen: 0.23 ug/l
 RT: 8.17 min Scan# 1988
 Delta R.T. 0.00 min
 Lab File: VN051031.D
 Acq: 6 Sep 2018 13:24

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WASTE-WATER

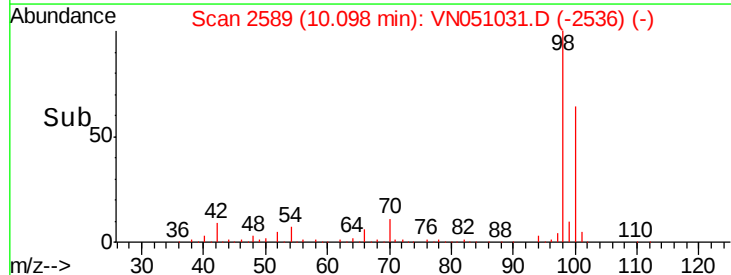
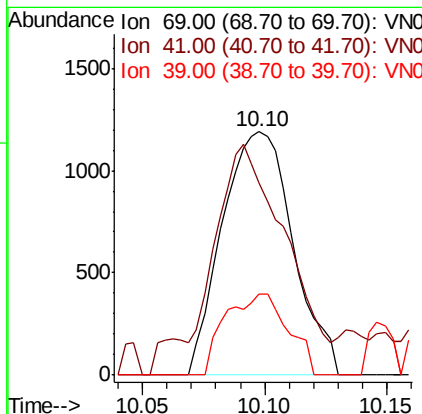
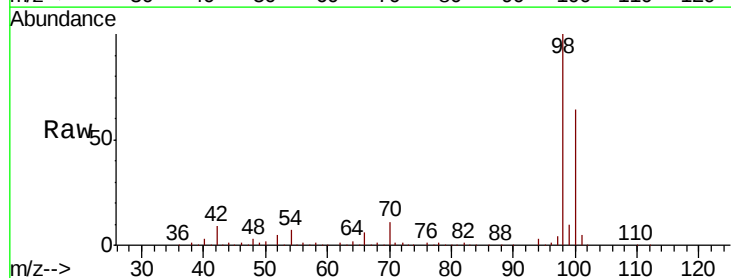
Tot Ion: 43 Resp: 2579
 Ion Ratio Lower Upper
 43 100
 61 5.6 16.3 24.5#

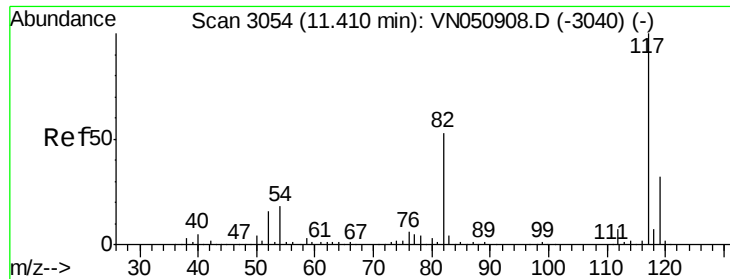


#51

Ethyl methacrylate
 Concen: 0.27 ug/l
 RT: 10.10 min Scan# 2589
 Delta R.T. -0.33 min
 Lab File: VN051031.D
 Acq: 6 Sep 2018 13:24

Tgt Ion: 69 Resp: 2394
 Ion Ratio Lower Upper
 69 100
 41 65.6 30.5 91.5
 39 33.2 15.3 45.8

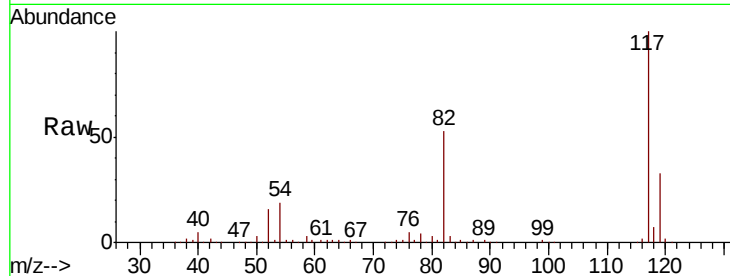




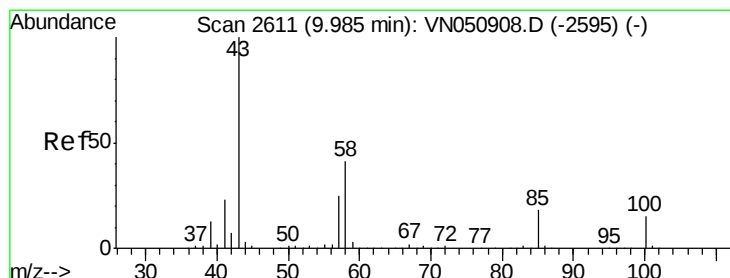
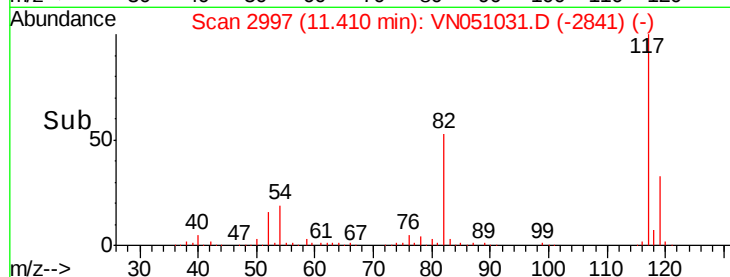
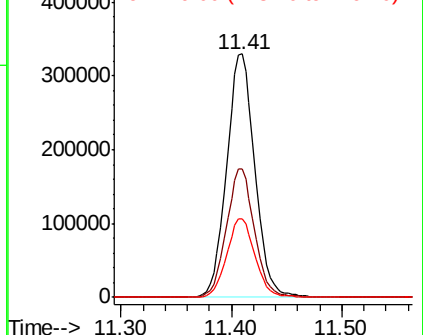
#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051031.D
Acq: 6 Sep 2018 13:24

Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

Tot Ion:117 Resp: 582868
Ion Ratio Lower Upper
117 100
82 52.6 42.6 64.0
119 32.4 25.7 38.5

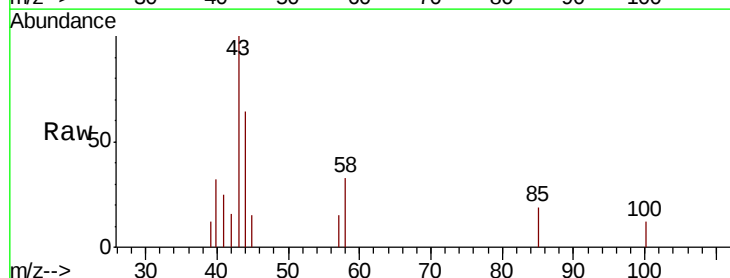


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VN
Ion 119.00 (118.70 to 119.70): V

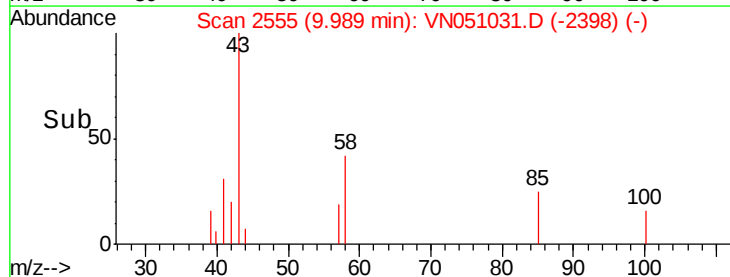
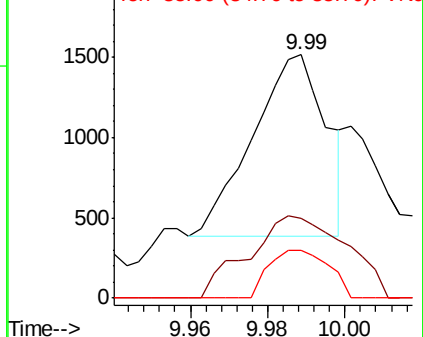


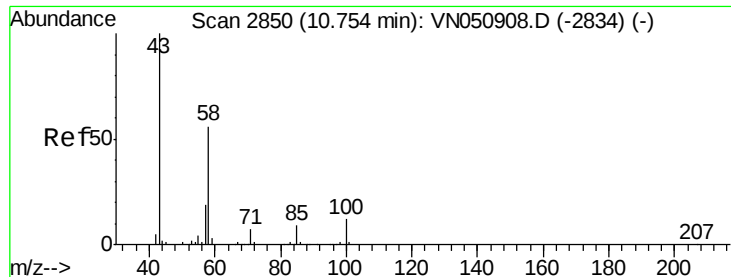
#58
4-Methyl-2-Pentanone
Concen: 0.23 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN051031.D
Acq: 6 Sep 2018 13:24

Tgt Ion: 43 Resp: 1503
Ion Ratio Lower Upper
43 100
58 52.0 32.3 48.5#
85 21.2 14.9 22.3



Abundance Ion 43.00 (42.70 to 43.70): VN
Ion 58.00 (57.70 to 58.70): VN
Ion 85.00 (84.70 to 85.70): VN

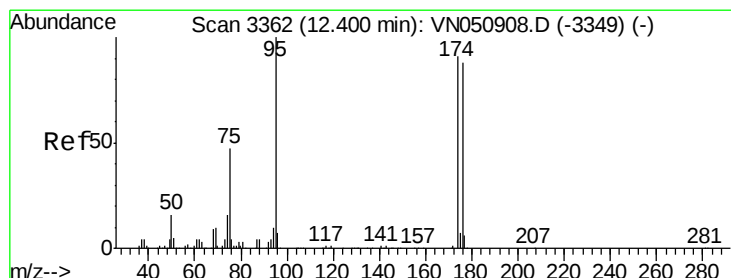
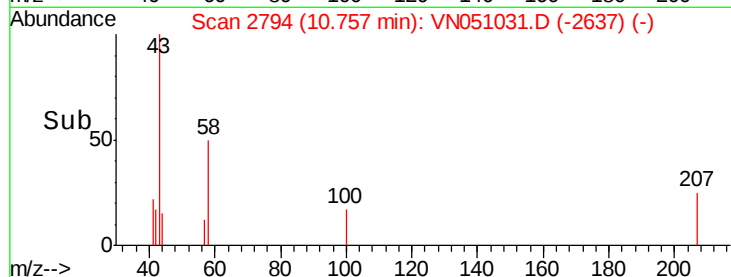
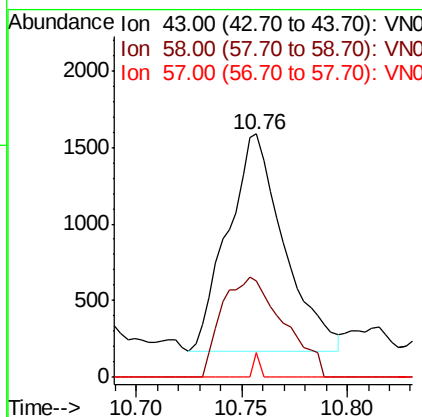
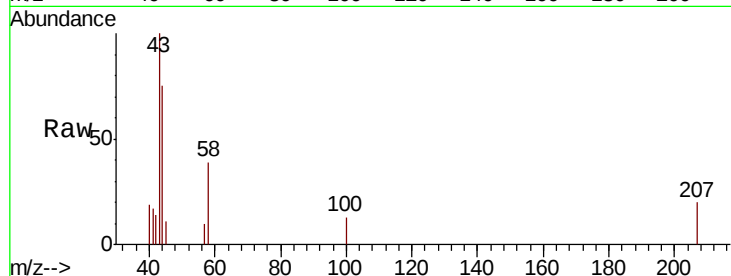




#59
2-Hexanone
Concen: 0.60 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.00 min
Lab File: VN051031.D
Acq: 6 Sep 2018 13:24

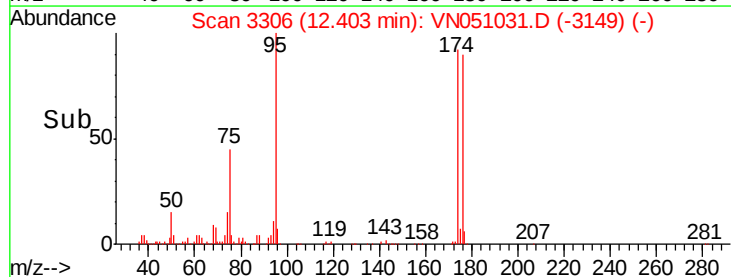
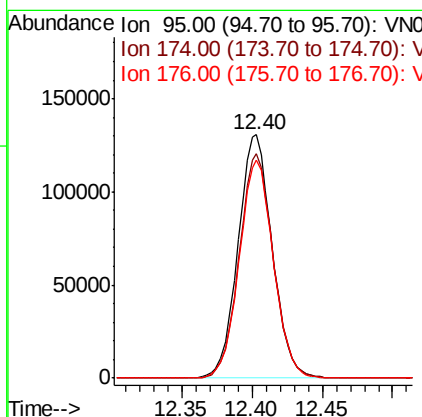
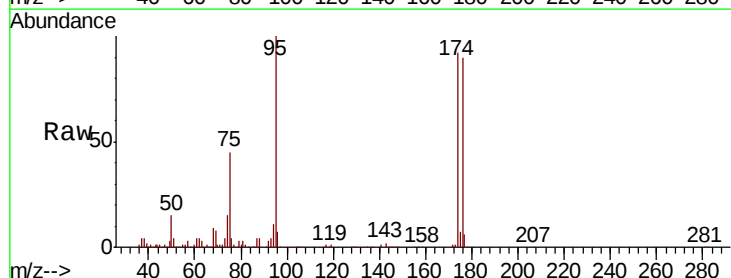
Instrument :
MSVOA_N
ClientSampleId :
EFF-WASTE-WATER

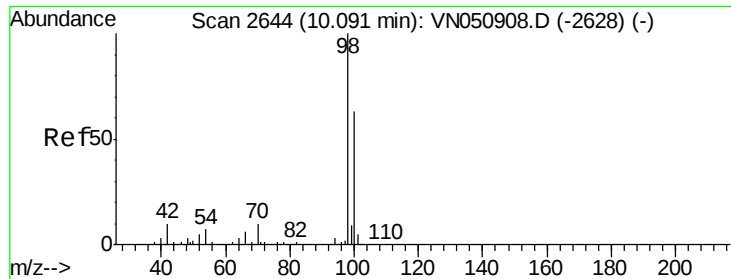
Tot Ion: 43 Resp: 2624
Ion Ratio Lower Upper
43 100
58 49.5 45.5 68.3
57 0.0 15.2 22.8#



#60
4-Bromofluorobenzene
Concen: 25.55 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051031.D
Acq: 6 Sep 2018 13:24

Tgt Ion: 95 Resp: 221458
Ion Ratio Lower Upper
95 100
174 91.8 74.6 112.0
176 89.3 71.5 107.3





#63

Toluene-d8

Concen: 29.01 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051031.D

Acq: 6 Sep 2018 13:24

Instrument :

MSVOA_N

ClientSampleId :

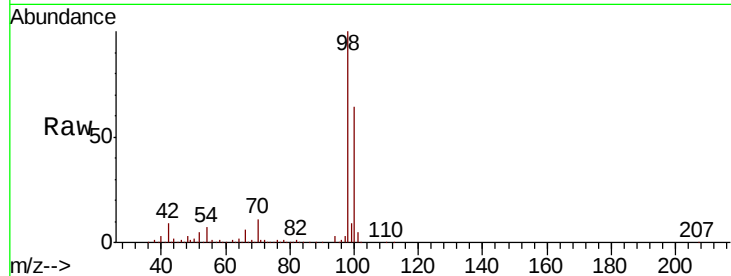
EFF-WASTE-WATER

Tot Ion: 98 Resp: 788625

Ion Ratio Lower Upper

98 100

100 63.4 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VN050908.D (-2628) (-)

Ion 100.00 (99.70 to 100.70): VN050908.D (-2628) (-)

10.09

400000

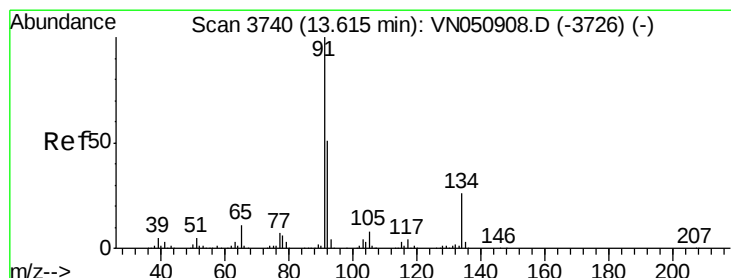
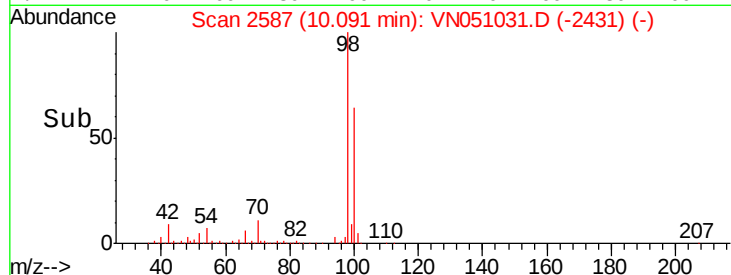
300000

200000

100000

0

Time-->



#85

n-Butylbenzene

Concen: 0.21 ug/l

RT: 13.62 min Scan# 3684

Delta R.T. 0.00 min

Lab File: VN051031.D

Acq: 6 Sep 2018 13:24

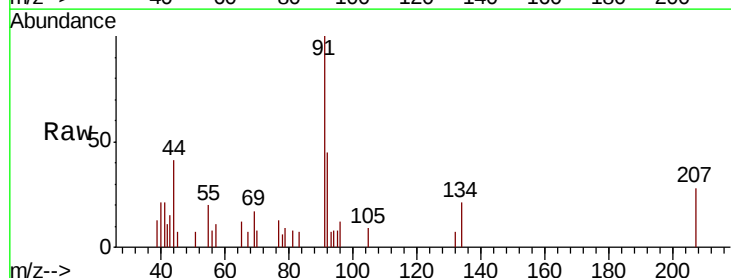
Tgt Ion: 91 Resp: 4211

Ion Ratio Lower Upper

91 100

92 43.2 0.0 101.8

134 22.6 0.0 52.2



Abundance Ion 91.00 (90.70 to 91.70): VN050908.D (-3726) (-)

Ion 92.00 (91.70 to 92.70): VN050908.D (-3726) (-)

Ion 134.00 (133.70 to 134.70): VN050908.D (-3726) (-)

13.62

3000

2500

2000

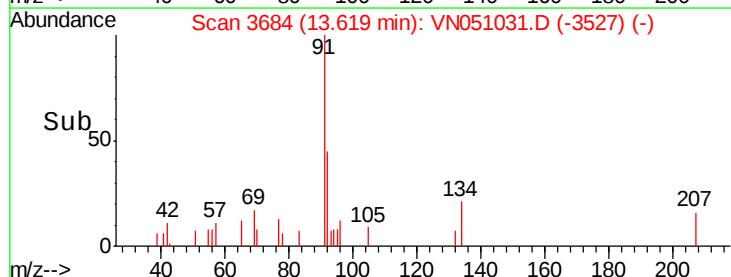
1500

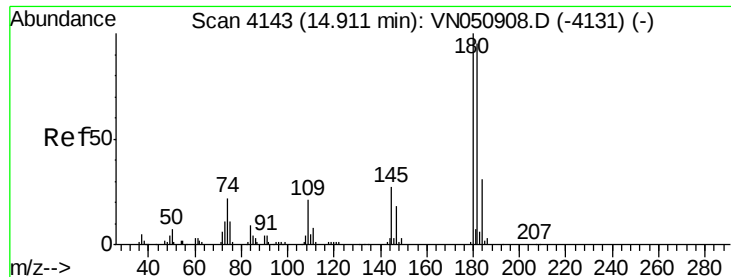
1000

500

0

Time-->

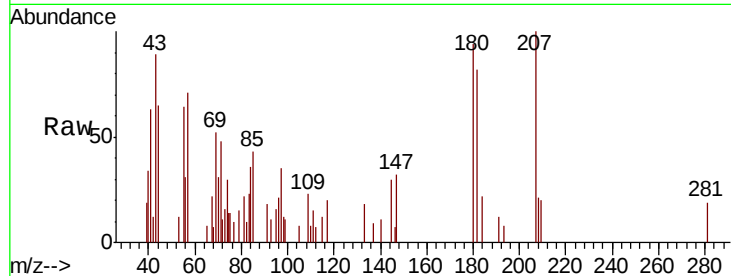




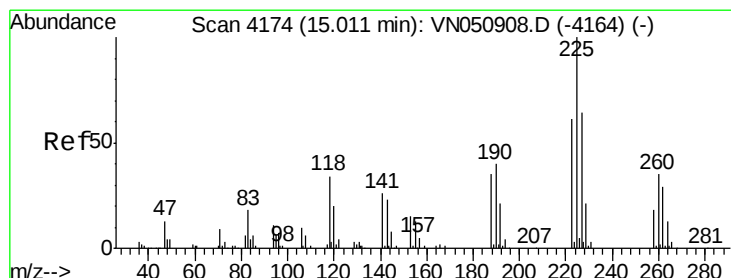
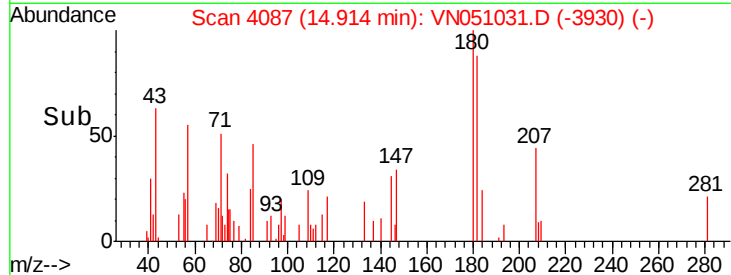
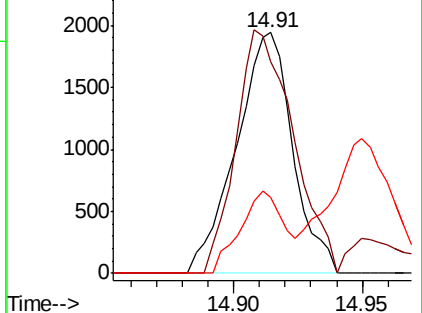
#89
 1,2,4-Trichlorobenzene
 Concen: 0.46 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN051031.D
 Acq: 6 Sep 2018 13:24

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WASTE-WATER

Tot Ion:180 Resp: 2967
 Ion Ratio Lower Upper
 180 100
 182 102.3 76.2 114.4
 145 26.7 22.2 33.4

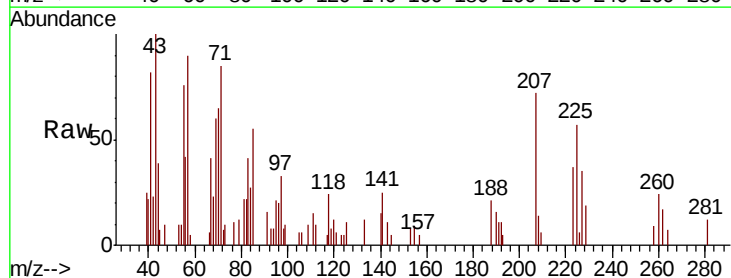


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

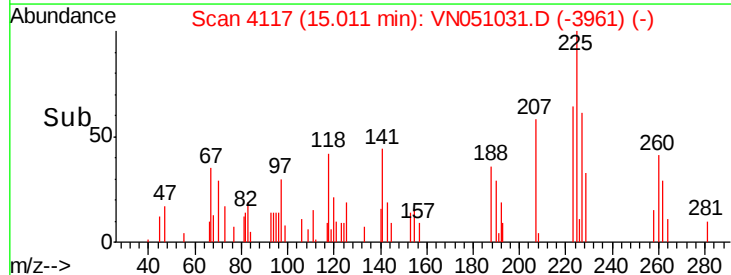
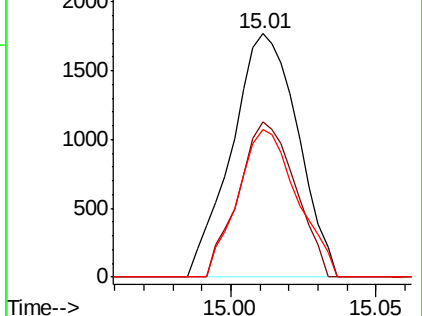


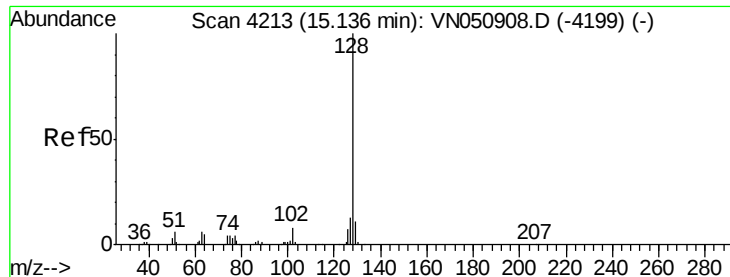
#90
 Hexachlorobutadiene
 Concen: 0.64 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN051031.D
 Acq: 6 Sep 2018 13:24

Tgt Ion:225 Resp: 2800
 Ion Ratio Lower Upper
 225 100
 223 54.8 0.0 127.8
 227 54.4 0.0 128.4



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: 8.99 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN051031.D

Acq: 6 Sep 2018 13:24

Instrument :

MSVOA_N

ClientSampleId :

EFF-WASTE-WATER

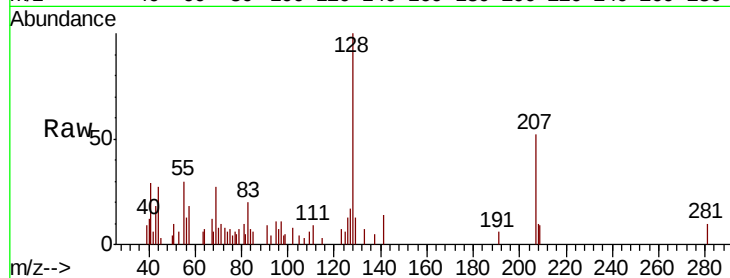
Tot Ion:128 Resp: 8252

Ion Ratio Lower Upper

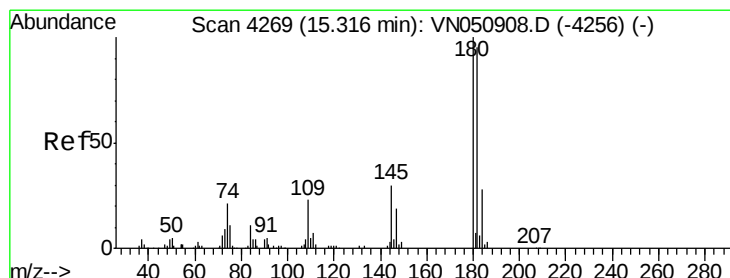
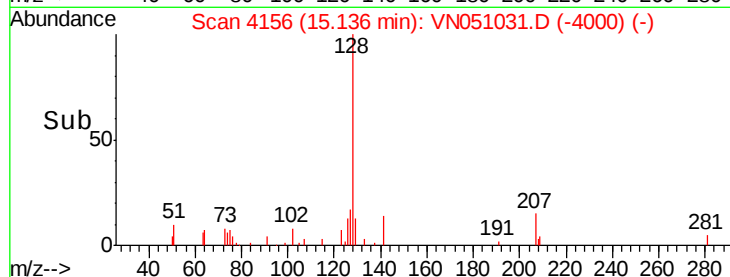
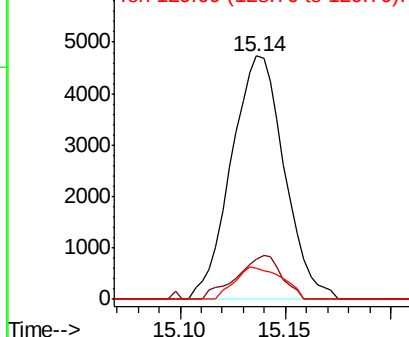
128 100

127 15.2 10.6 16.0

129 11.8 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



#92

1,2,3-Trichlorobenzene

Concen: 0.55 ug/l

RT: 15.32 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN051031.D

Acq: 6 Sep 2018 13:24

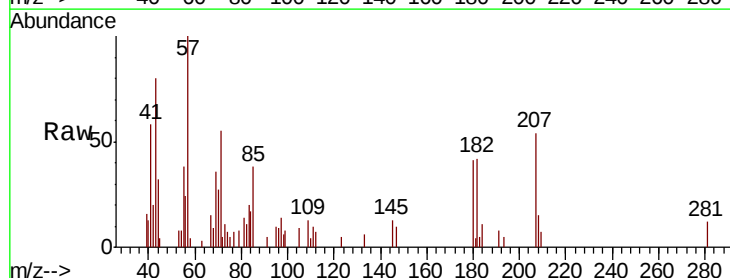
Tgt Ion:180 Resp: 3512

Ion Ratio Lower Upper

180 100

182 97.7 0.0 192.8

145 19.7 0.0 60.0



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

