

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080318\
 Data File : VN050311.D
 Acq On : 3 Aug 2018 14:24
 Operator : MD\SY
 Sample : J4341-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DSN001-SEWER-OUTLET-001

Quant Time: Aug 03 23:48:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.23	128	959	30.00	ug/l	0.04
28) 1,4-Difluorobenzene	8.23	114	142	30.00	ug/l	-0.35
57) Chlorobenzene-d5	11.54	117	786090	30.00	ug/l	0.14

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.19	65	287	4.40	ug/l	0.16
Spiked Amount	30.000	Range	50 - 169	Recovery	=	14.67%#
60) 4-Bromofluorobenzene	12.47	95	341385	28.27	ug/l	0.06
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.23%
63) Toluene-d8	10.38	98	956843	25.48	ug/l	0.29
Spiked Amount	30.000	Range	66 - 137	Recovery	=	84.93%

Target Compounds

						Ovalue
8) Diethyl Ether	3.60	74	101	3.18	ug/l #	3
9) 1,1,2-Trichlorotrifluoroet	3.72	101	110	1.91	ug/l	71
10) 1,1-Dichloroethene	3.76	96	35	0.68	ug/l #	86
11) Methyl Iodide	3.97	142	102	1.36	ug/l #	43
12) Methyl Acetate	3.98	43	1388	23.70	ug/l #	52
13) Acrolein	3.71	56	241	66.58	ug/l	85
14) Acrylonitrile	4.72	53	1332	68.15	ug/l #	40
15) Acetone	3.78	58	86	16.56	ug/l	96
16) Carbon Disulfide	3.64	76	179	1.14	ug/l	95
17) Allyl chloride	4.09	41	4571	56.61	ug/l #	68
18) Methylene Chloride	4.58	84	258	4.37	ug/l #	4
19) trans-1,2-Dichloroethene	5.06	96	40	0.73	ug/l #	1
21) 1,1-Dichloroethane	6.36	63	1014	9.74	ug/l	99
22) cis-1,2-Dichloroethene	6.86	96	651	10.72	ug/l #	1
23) tert-Butyl Alcohol	4.47	59	83225	19057.17	ug/l #	100
24) Methyl tert-Butyl Ether	5.08	73	84	0.60	ug/l #	57
25) Chloroform	7.40	83	741	7.03	ug/l #	21
26) Cyclohexane	7.68	56	42	0.51	ug/l #	44
29) 1,1-Dichloropropene	7.59	75	206	93.48	ug/l	76
30) 2-Butanone	6.64	43	1109	1603.70	ug/l #	14
31) 2,2-Dichloropropane	6.93	77	1138	467.17	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	157	60.53	ug/l #	29
33) Carbon Tetrachloride	7.65	117	400	172.99	ug/l #	69
34) Benzene	8.05	78	135	20.17	ug/l #	1
35) Methacrylonitrile	7.02	41	292	370.86	ug/l #	1
36) 1,2-Dichloroethane	8.13	62	14	6.37	ug/l #	74
38) Methylcyclohexane	9.16	83	17014	7323.47	ug/l #	29
39) 1,2-Dichloropropane	9.16	63	168138	95367.55	ug/l #	46
40) Dibromomethane	9.65	93	188	172.53	ug/l	99
41) Bromodichloromethane	9.80	83	9030	3928.66	ug/l	93
42) Vinyl Acetate	6.27	43	2316	711.71	ug/l	97
43) Ethyl Acetate	6.64	43	1109	767.99	ug/l #	22
44) Isopropyl Acetate	7.94	43	1878	702.06	ug/l	92
45) 1,4-Dioxane	9.16	88	127152	7223491.28	ug/l #	26
46) Methyl methacrylate	9.45	41	174	134.18	ug/l	61
47) n-amyl Acetate	12.30	43	461	221.48	ug/l	92
48) t-1,3-Dichloropropene	10.61	75	744	339.59	ug/l	93

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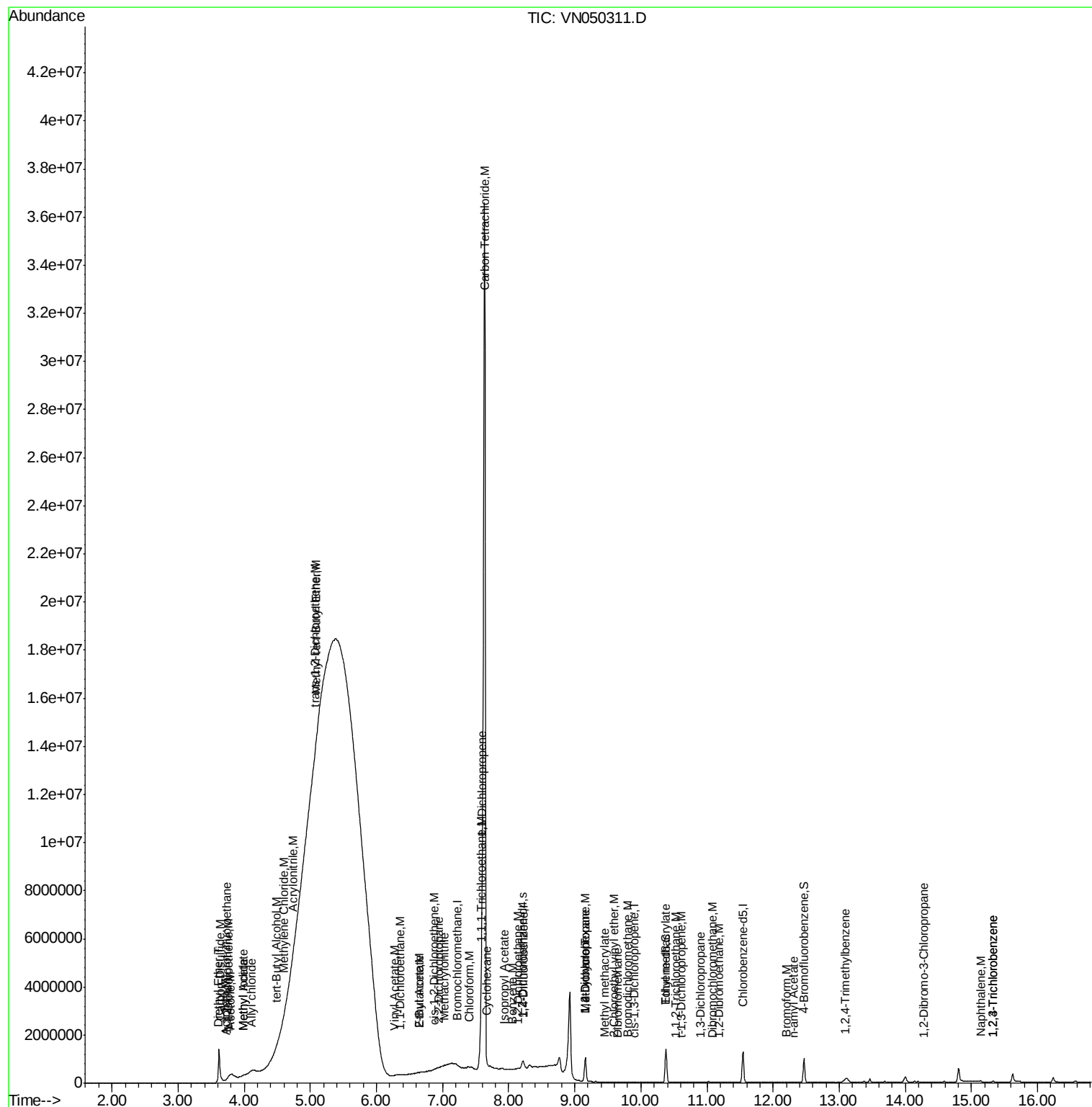
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) cis-1,3-Dichloropropene	9.89	75	103	40.01	ug/l #	69
50) 1,1,2-Trichloroethane	10.53	97	60	38.36	ug/l #	21
51) Ethyl methacrylate	10.39	69	4194	2209.20	ug/l	89
52) 1,3-Dichloropropane	10.90	76	294	114.47	ug/l	81
53) Dibromochloromethane	11.08	129	2750	1549.27	ug/l	95
54) 1,2-Dibromoethane	11.18	107	32	20.89	ug/l #	2
55) 2-Chloroethyl vinyl ether	9.59	63	65	75.65	ug/l #	1
56) Bromoform	12.21	173	3141	2506.02	ug/l #	93
80) 1,2,4-Trimethylbenzene	13.09	105	14647	0.39	ug/l	34
88) 1,2-Dibromo-3-Chloropropan	14.28	75	628	0.33	ug/l #	31
89) 1,2,4-Trichlorobenzene	15.32	180	6969	0.72	ug/l	98
91) Naphthalene	15.14	128	44652	9.11	ug/l	98
92) 1,2,3-Trichlorobenzene	15.32	180	6969	0.71	ug/l	98

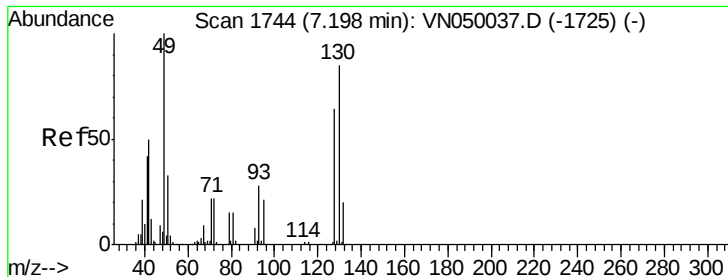
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jul 26 15:21:50 2018
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#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.23 min Scan# 1755

Delta R.T. 0.04 min

Lab File: VN050311.D

Acq: 3 Aug 2018 14:24

Instrument :

MSVOA_N

ClientSampleId :

DSN001-SEWER-OUTLET-001

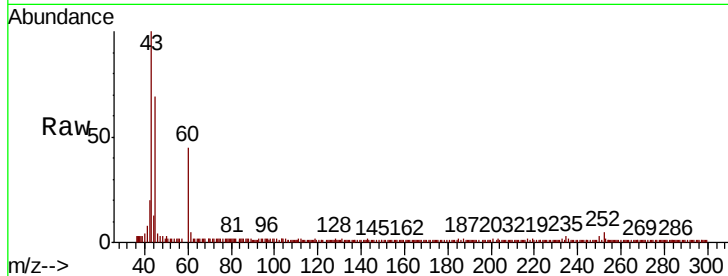
Tot Ion:128 Resp: 959

Ion Ratio Lower Upper

128 100

49 203.4 0.0 378.3

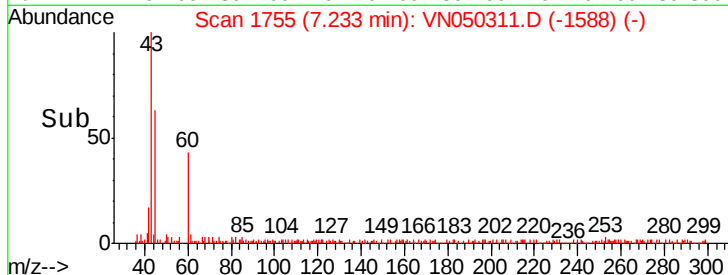
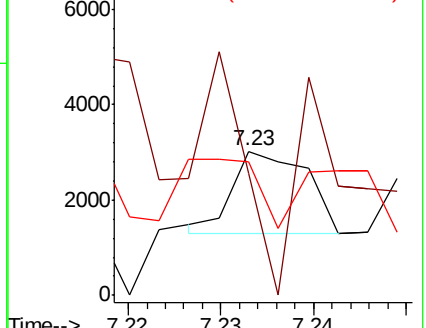
130 86.0 0.0 320.7



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



#8

Diethyl Ether

Concen: 3.18 ug/l

RT: 3.60 min Scan# 624

Delta R.T. 0.18 min

Lab File: VN050311.D

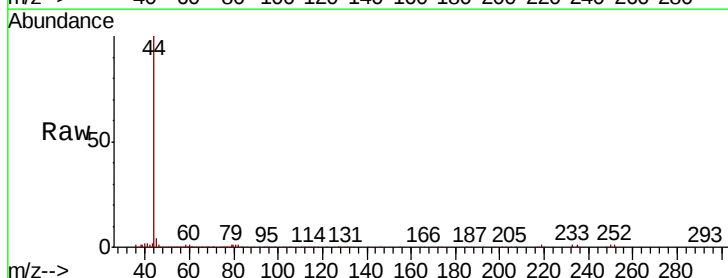
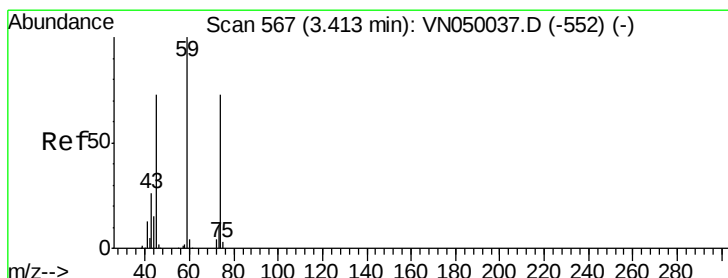
Acq: 3 Aug 2018 14:24

Tgt Ion: 74 Resp: 101

Ion Ratio Lower Upper

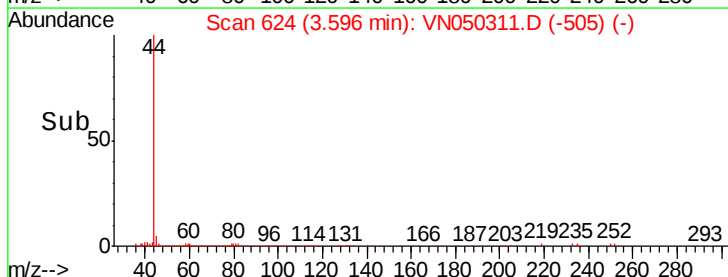
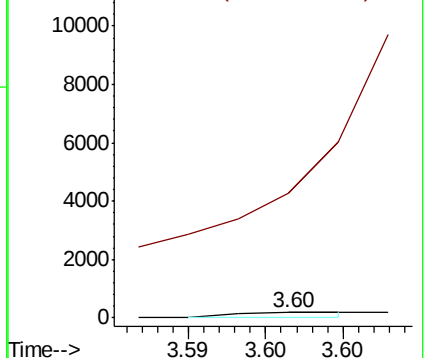
74 100

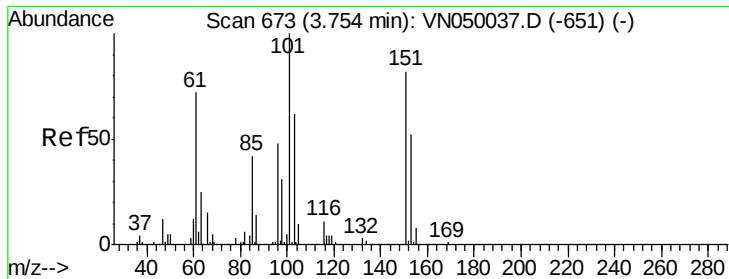
45 0.0 18.7 167.9#



Abundance Ion 74.00 (73.70 to 74.70): VN0

Ion 45.00 (44.70 to 45.70): VN0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.91 ug/l

RT: 3.72 min Scan# 663

Delta R.T. -0.03 min

Lab File: VN050311.D

Acq: 3 Aug 2018 14:24

Instrument :

MSVOA_N

ClientSampleId :

DSN001-SEWER-OUTLET-001

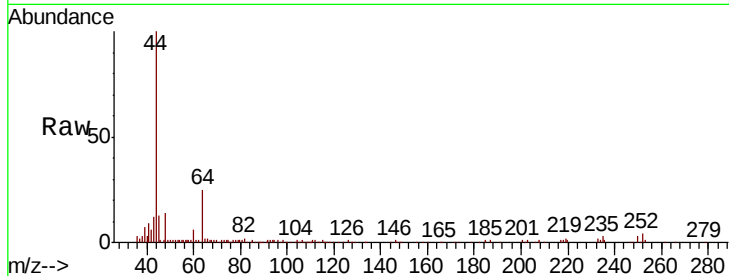
Tot Ion:101 Resp: 110

Ion Ratio Lower Upper

101 100

85 54.5 0.0 83.0

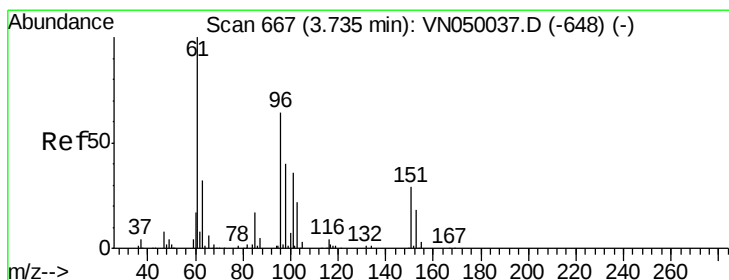
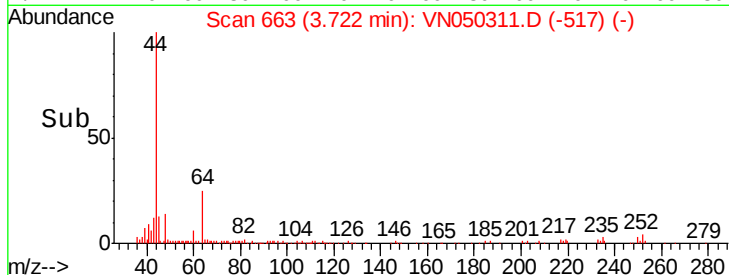
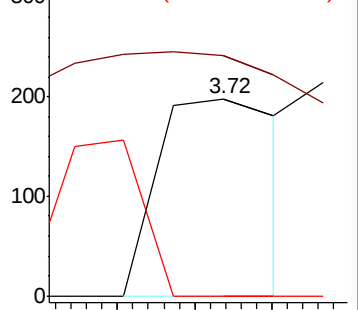
151 53.6 0.0 166.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VN0

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 0.68 ug/l

RT: 3.76 min Scan# 674

Delta R.T. 0.02 min

Lab File: VN050311.D

Acq: 3 Aug 2018 14:24

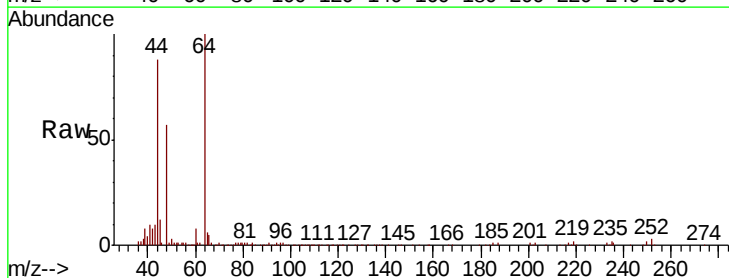
Tgt Ion: 96 Resp: 35

Ion Ratio Lower Upper

96 100

61 167.9 130.6 195.8

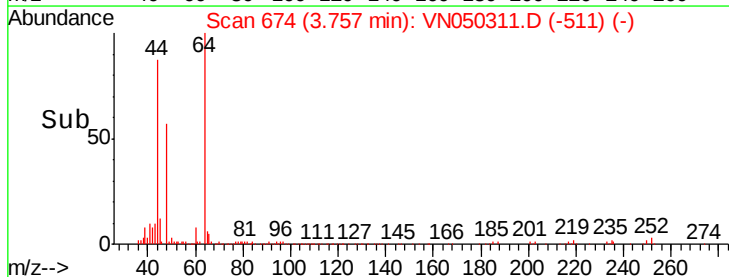
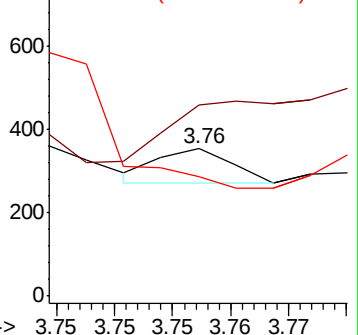
98 35.8 53.5 80.3#

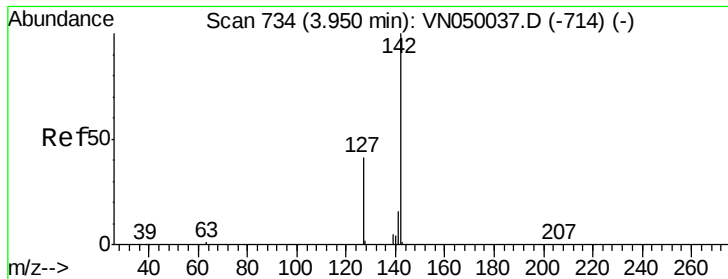


Abundance Ion 96.00 (95.70 to 96.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 98.00 (97.70 to 98.70): VN0

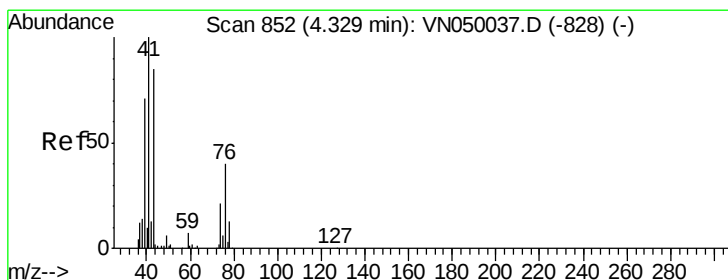
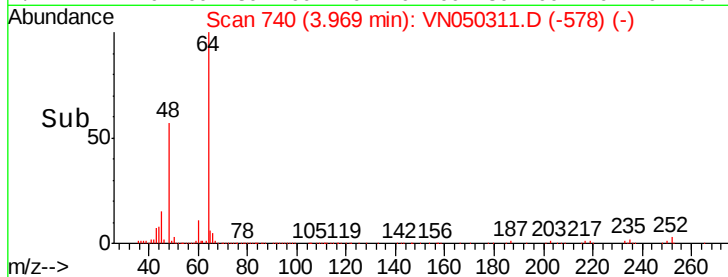
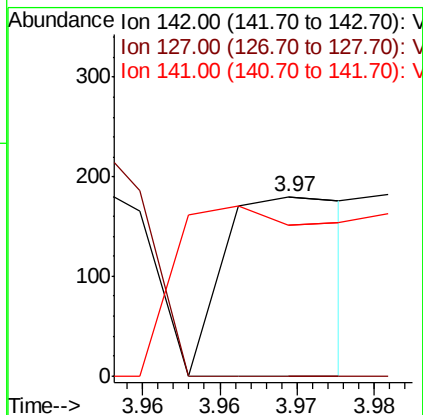
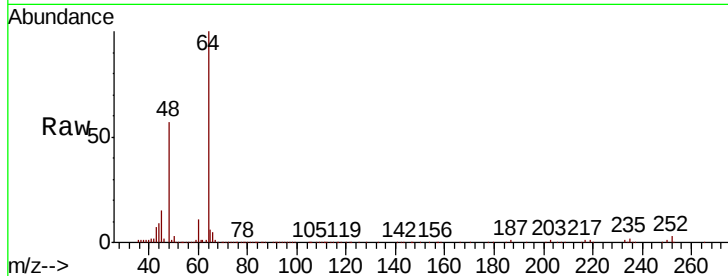




#11
Methvl Iodide
Concen: 1.36 ug/l
RT: 3.97 min Scan# 740
Delta R.T. 0.02 min
Lab File: VN050311.D
Acq: 3 Aug 2018 14:24

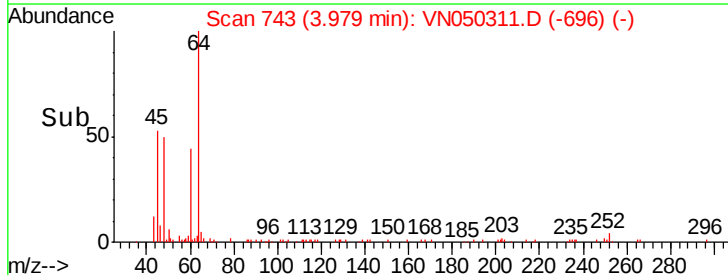
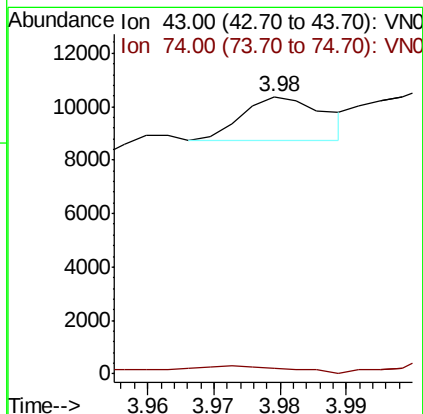
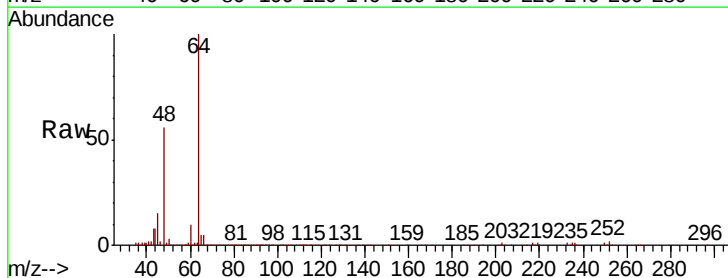
Instrument :
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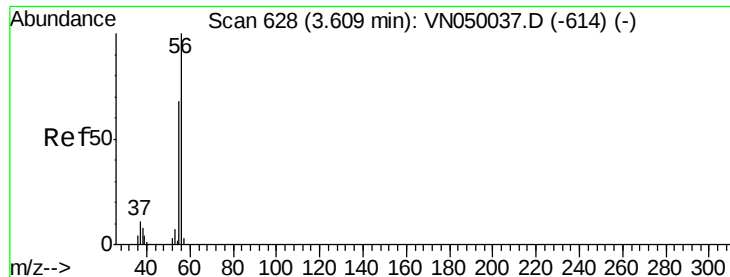
Tot Ion:142 Resp: 102
Ion Ratio Lower Upper
142 100
127 0.0 20.2 60.5#
141 0.0 6.9 20.6#



#12
Methyl Acetate
Concen: 23.70 ug/l
RT: 3.98 min Scan# 743
Delta R.T. -0.35 min
Lab File: VN050311.D
Acq: 3 Aug 2018 14:24

Tgt Ion: 43 Resp: 1388
Ion Ratio Lower Upper
43 100
74 0.2 19.3 28.9#





#13

Acrolein

Concen: 66.58 ug/l

RT: 3.71 min Scan# 660

Delta R.T. 0.10 min

Lab File: VN050311.D

Acq: 3 Aug 2018 14:24

Instrument :

MSVOA_N

ClientSampleId :

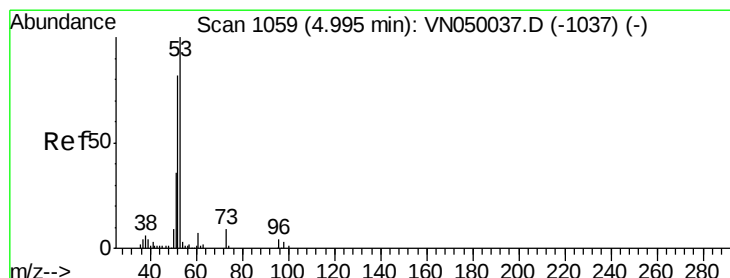
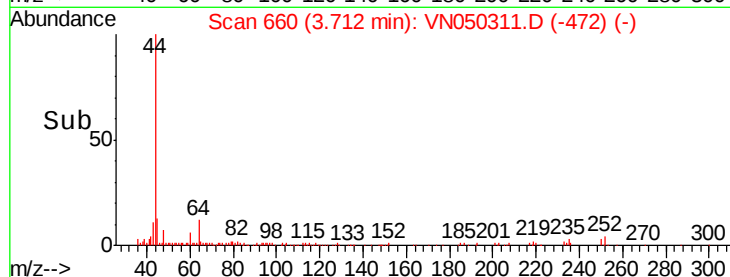
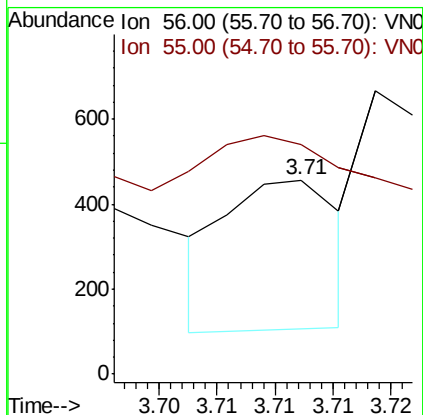
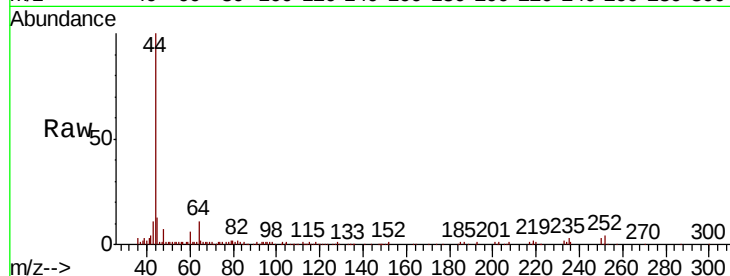
DSN001-SEWER-OUTLET-001

Tot Ion: 56 Resp: 241

Ion Ratio Lower Upper

56 100

55 86.3 58.6 88.0



#14

Acrylonitrile

Concen: 68.15 ug/l

RT: 4.72 min Scan# 974

Delta R.T. -0.27 min

Lab File: VN050311.D

Acq: 3 Aug 2018 14:24

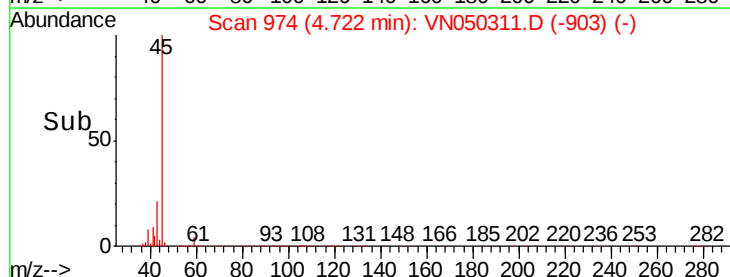
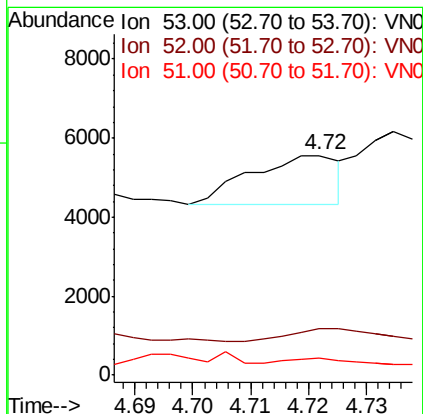
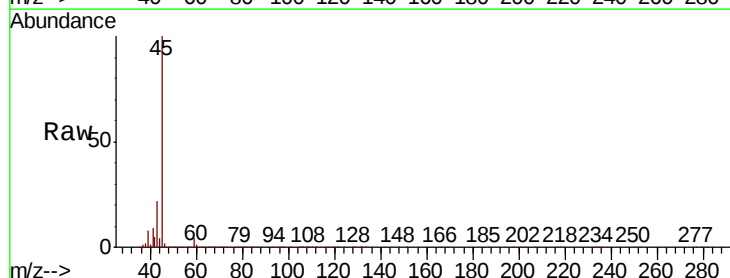
Tgt Ion: 53 Resp: 1332

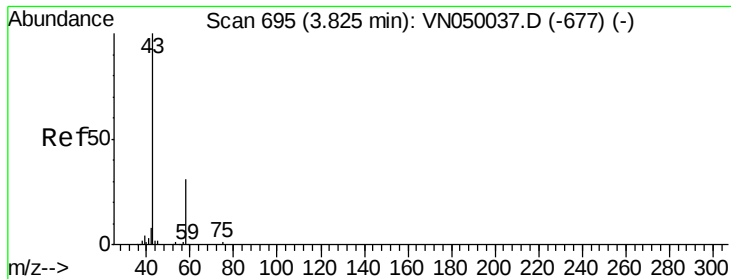
Ion Ratio Lower Upper

53 100

52 23.4 41.5 124.5#

51 9.8 18.7 56.1#





#15

Acetone

Concen: 16.56 ug/l

RT: 3.78 min Scan# 680

Delta R.T. -0.05 min

Lab File: VN050311.D

Acq: 3 Aug 2018 14:24

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ClientSampleId :

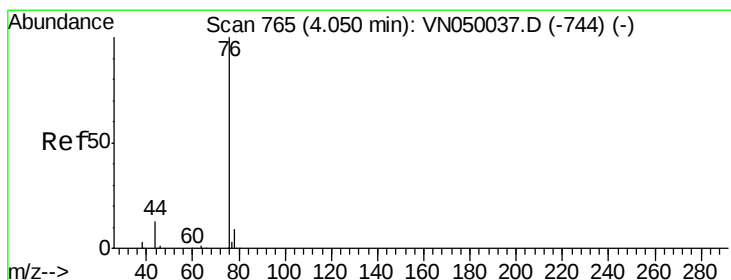
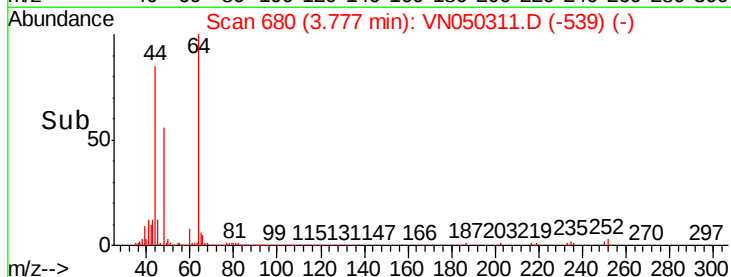
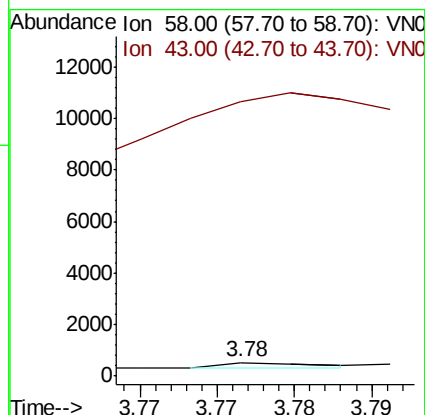
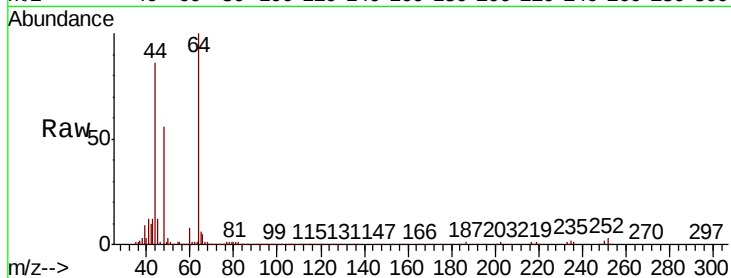
DSN001-SEWER-OUTLET-001

Tot Ion: 58 Resp: 86

Ion Ratio Lower Upper

58 100

43 323.2 252.0 378.0



#16

Carbon Disulfide

Concen: 1.14 ug/l

RT: 3.64 min Scan# 638

Delta R.T. -0.41 min

Lab File: VN050311.D

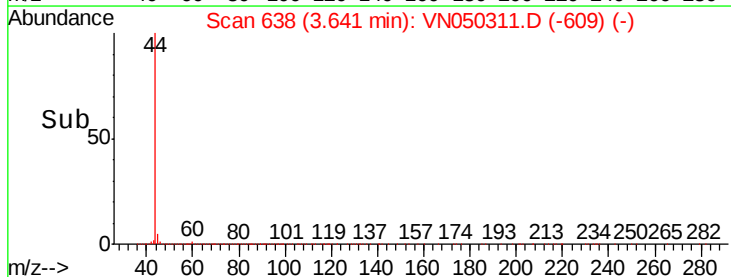
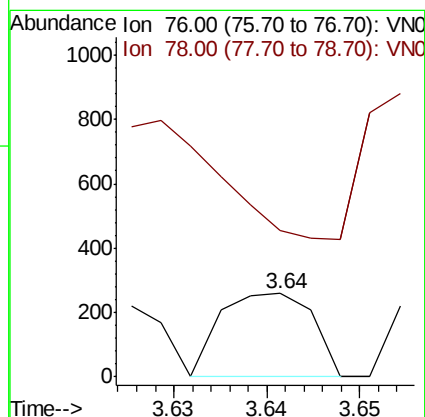
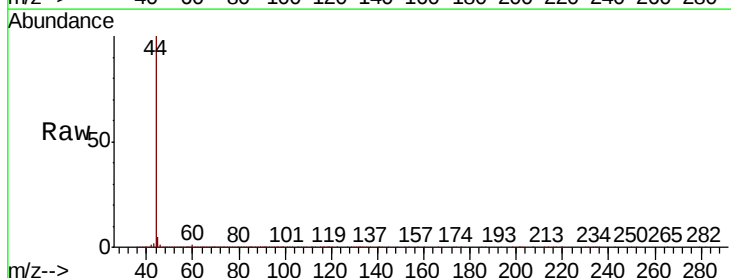
Acq: 3 Aug 2018 14:24

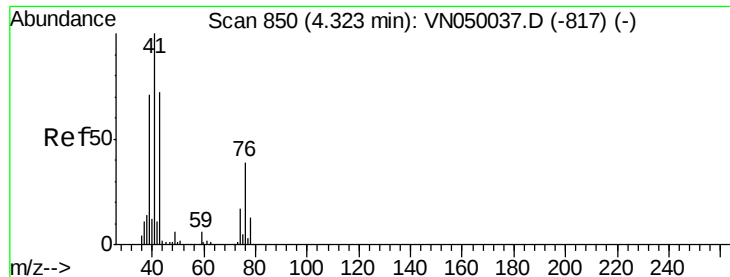
Tgt Ion: 76 Resp: 179

Ion Ratio Lower Upper

76 100

78 10.8 7.3 10.9

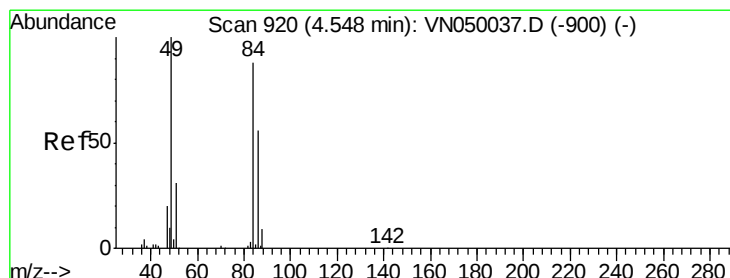
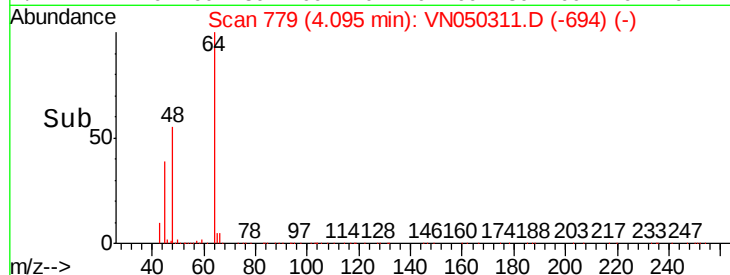
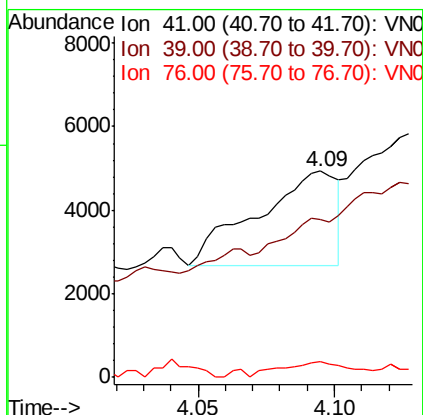
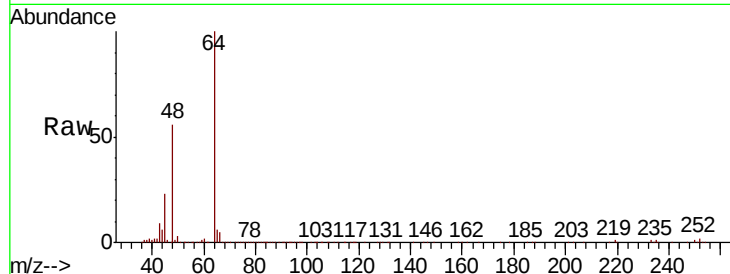




#17
Allvl chloride
Concen: 56.61 ug/l
RT: 4.09 min Scan# 779
Delta R.T. -0.23 min
Lab File: VN050311.D
Acq: 3 Aug 2018 14:24

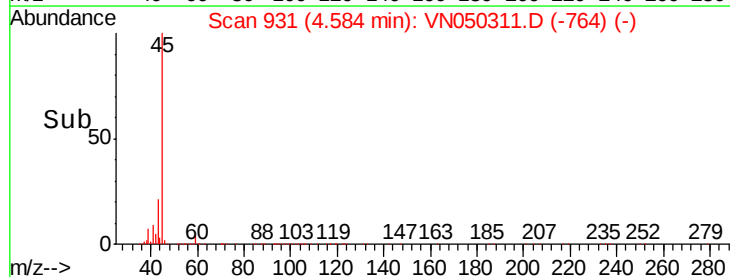
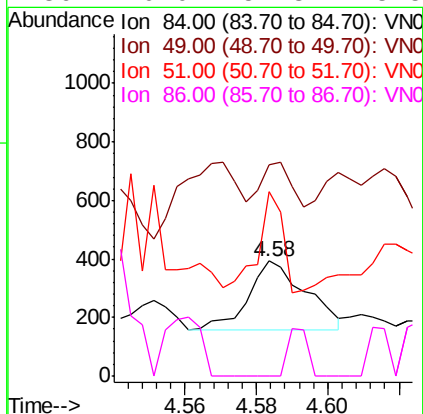
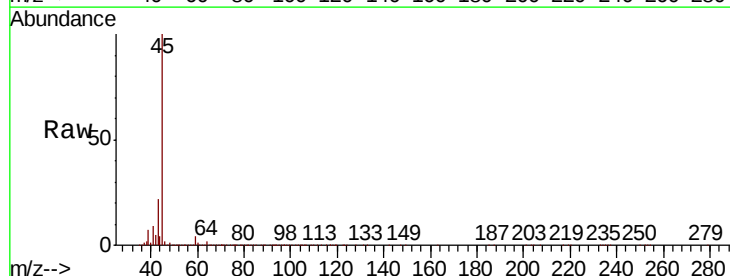
Instrument :
MSVOA_N
ClientSampleId :
DSN001-SEWER-OUTLET-001

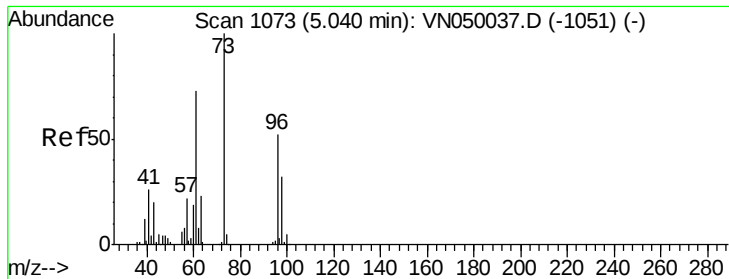
Tot Ion: 41 Resp: 4571
Ion Ratio Lower Upper
41 100
39 55.5 35.4 106.3
76 5.2 19.7 59.1#



#18
Methylene Chloride
Concen: 4.37 ug/l
RT: 4.58 min Scan# 931
Delta R.T. 0.04 min
Lab File: VN050311.D
Acq: 3 Aug 2018 14:24

Tgt Ion: 84 Resp: 258
Ion Ratio Lower Upper
84 100
49 20.9 95.1 142.7#
51 120.9 28.8 43.2#
86 0.0 52.3 78.5#





#19

trans-1,2-Dichloroethene

Concen: 0.73 ug/l

RT: 5.06 min Scan# 1080

Delta R.T. 0.02 min

Lab File: VN050311.D

Acq: 3 Aug 2018 14:24

Instrument :

MSVOA_N

ClientSampleId :

DSN001-SEWER-OUTLET-001

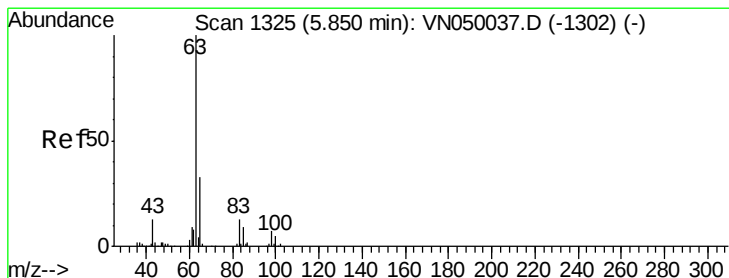
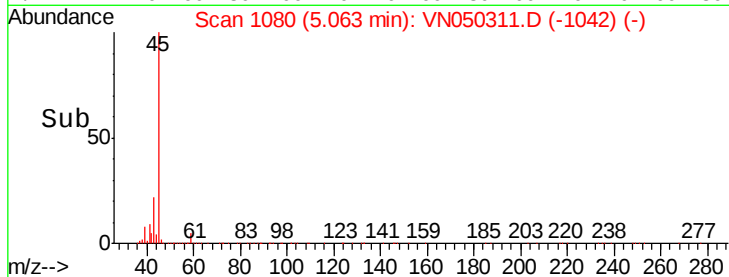
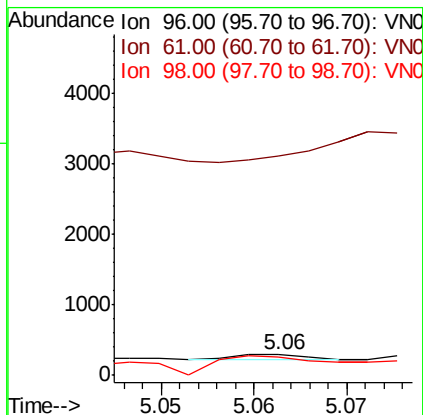
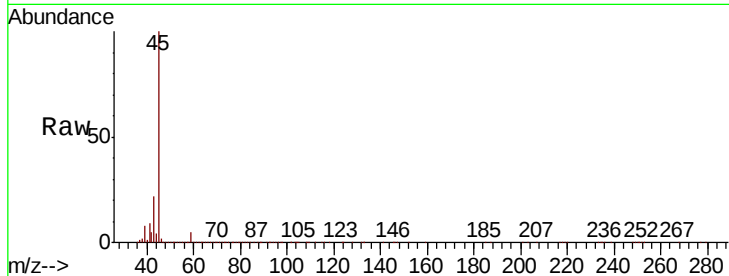
Tot Ion: 96 Resp: 40

Ion Ratio Lower Upper

96 100

61 111.0 112.1 168.1#

98 367.1 51.3 76.9#



#21

1,1-Dichloroethane

Concen: 9.74 ug/l

RT: 6.36 min Scan# 1482

Delta R.T. 0.50 min

Lab File: VN050311.D

Acq: 3 Aug 2018 14:24

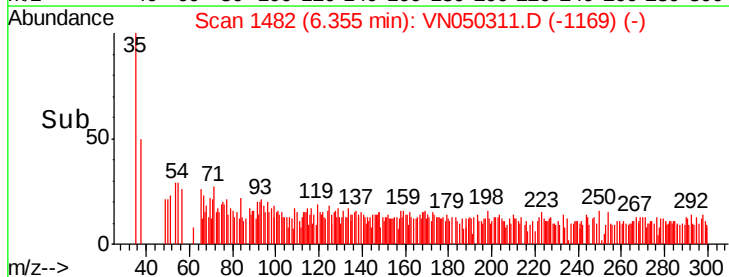
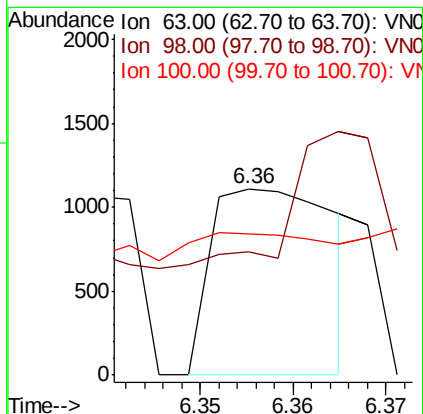
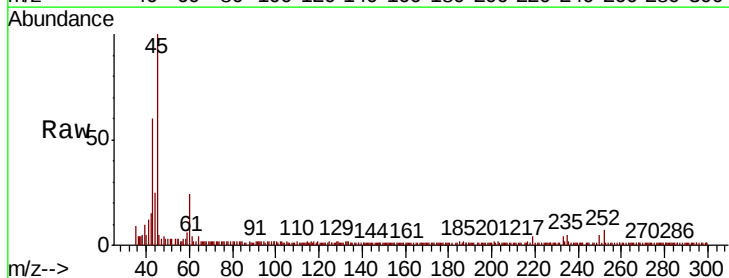
Tgt Ion: 63 Resp: 1014

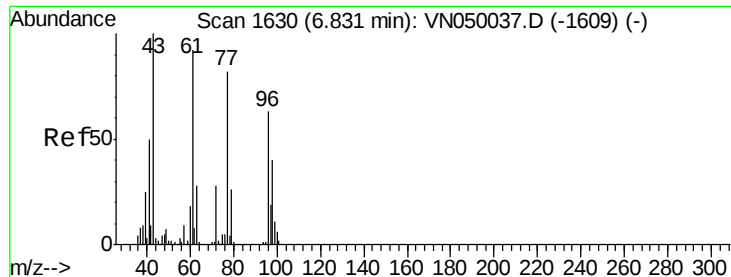
Ion Ratio Lower Upper

63 100

98 6.9 3.5 10.6

100 4.3 2.3 6.8





#22

cis-1,2-Dichloroethene

Concen: 10.72 ug/l

RT: 6.86 min Scan# 1638

Delta R.T. 0.03 min

Lab File: VN050311.D

Acq: 3 Aug 2018 14:24

Instrument :

MSVOA_N

ClientSampleId :

DSN001-SEWER-OUTLET-001

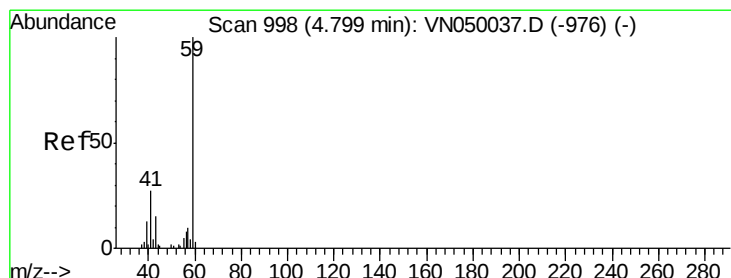
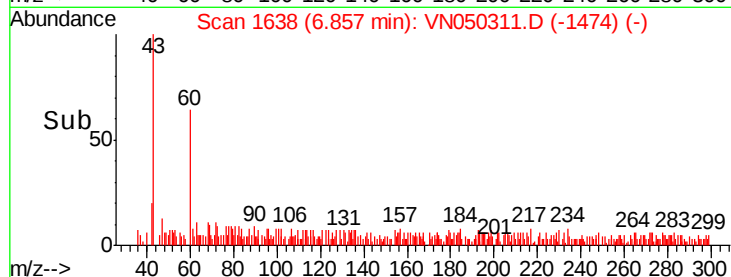
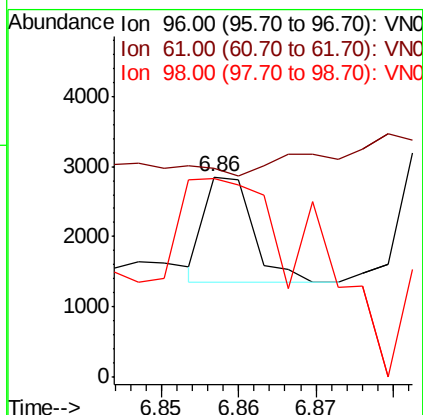
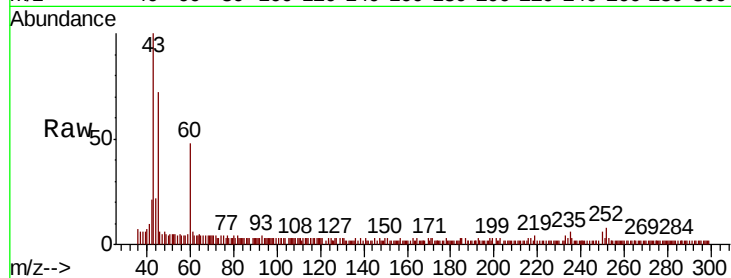
Tot Ion: 96 Resp: 651

Ion Ratio Lower Upper

96 100

61 29.0 114.2 171.2#

98 179.9 51.7 77.5#



#23

tert-Butyl Alcohol

Concen: 19057.17 ug/l

RT: 4.47 min Scan# 896

Delta R.T. -0.33 min

Lab File: VN050311.D

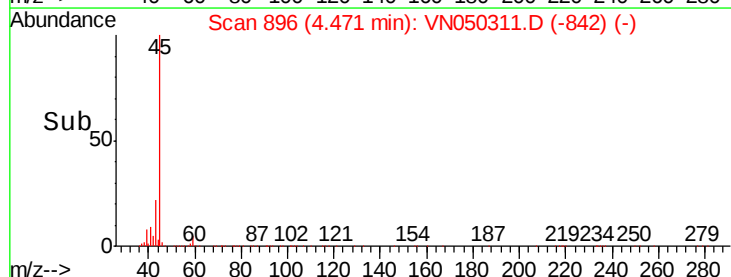
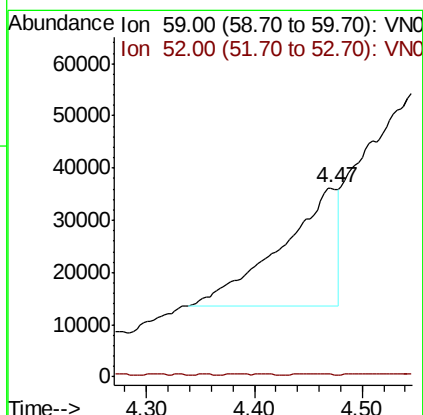
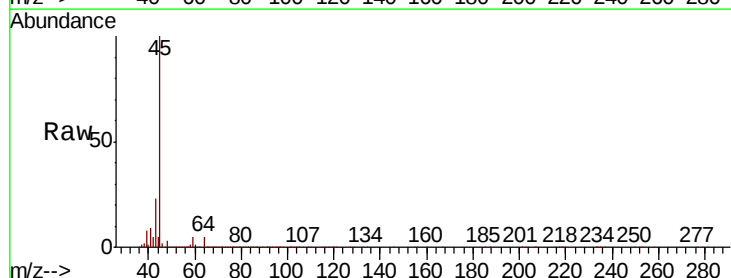
Acq: 3 Aug 2018 14:24

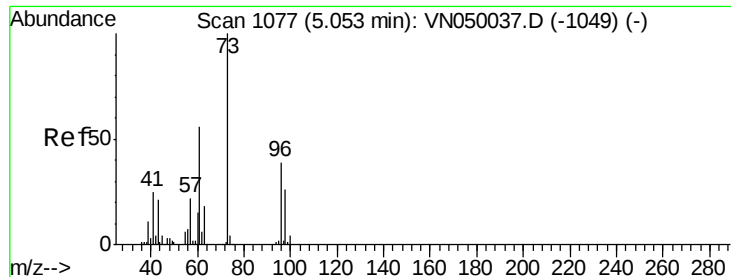
Tgt Ion: 59 Resp: 83225

Ion Ratio Lower Upper

59 100

52 0.1 0.1 0.1#



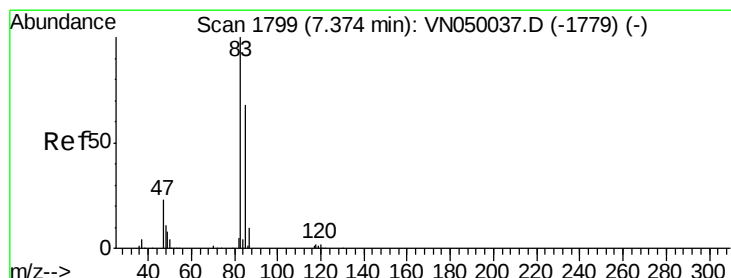
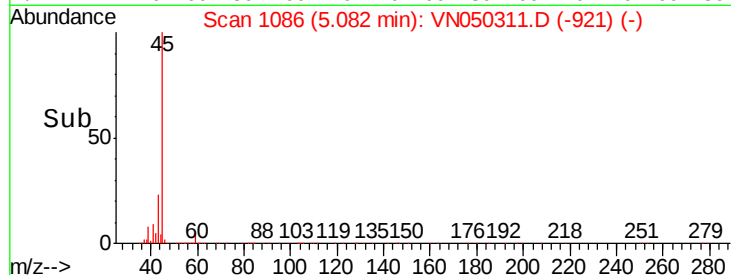
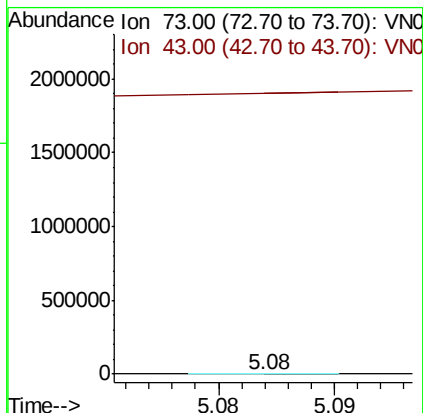
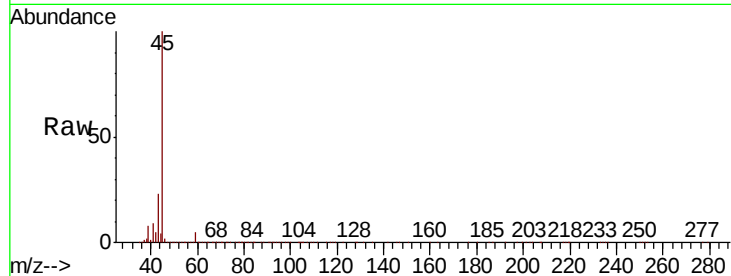


#24

Methyl tert-Butyl Ether
 Concen: 0.60 ug/l
 RT: 5.08 min Scan# 1086
 Delta R.T. 0.03 min
 Lab File: VN050311.D
 Acq: 3 Aug 2018 14:24

Instrument :
 MSVOA_N
 ClientSampleId :
 DSN001-SEWER-OUTLET-001

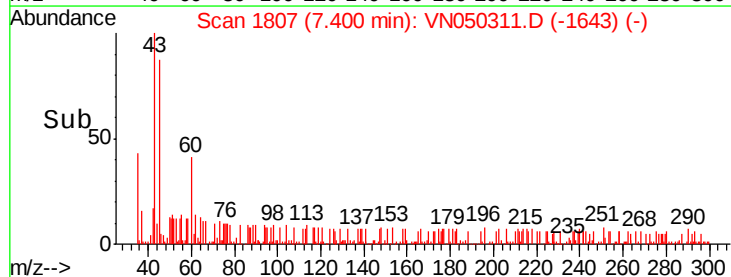
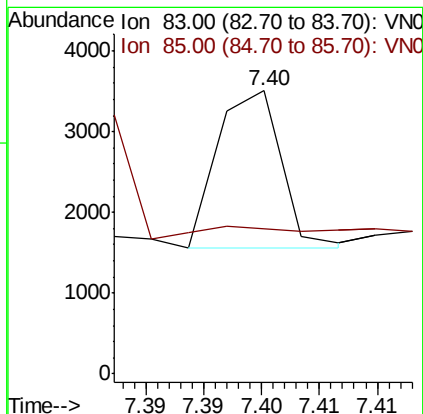
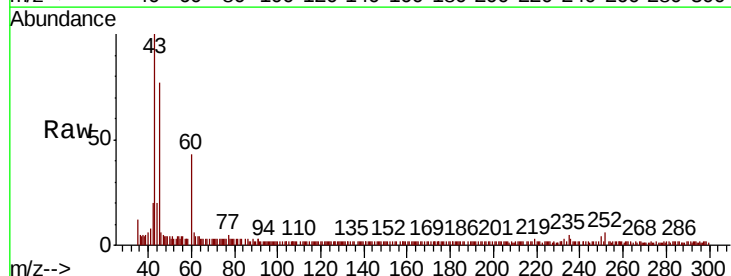
Tot Ion: 73 Resp: 84
 Ion Ratio Lower Upper
 73 100
 43 0.0 15.5 23.3#

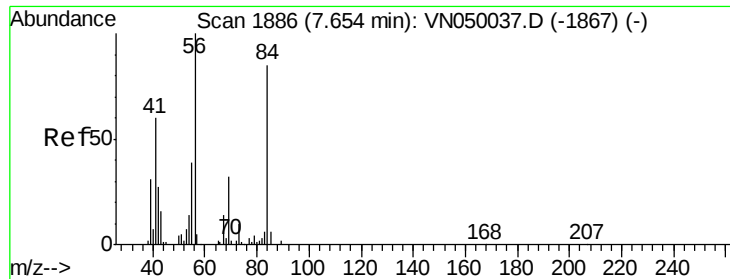


#25

Chloroform
 Concen: 7.03 ug/l
 RT: 7.40 min Scan# 1807
 Delta R.T. 0.03 min
 Lab File: VN050311.D
 Acq: 3 Aug 2018 14:24

Tgt Ion: 83 Resp: 741
 Ion Ratio Lower Upper
 83 100
 85 2.7 52.1 78.1#

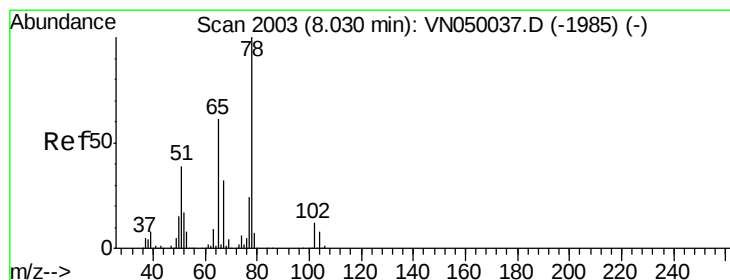
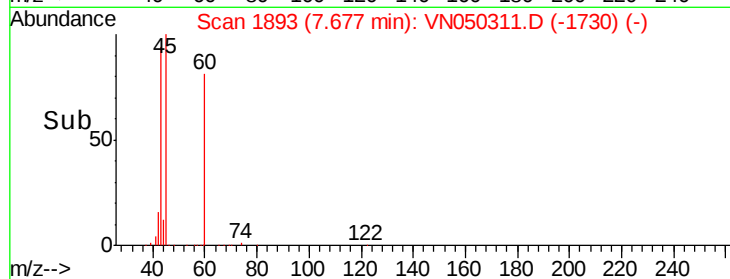
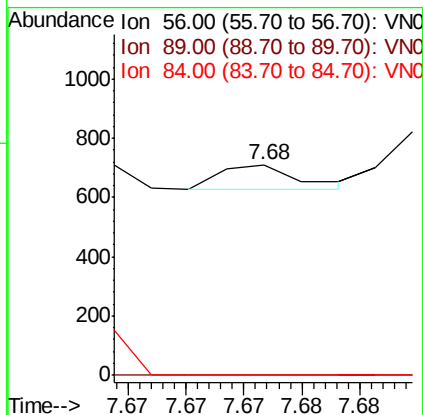
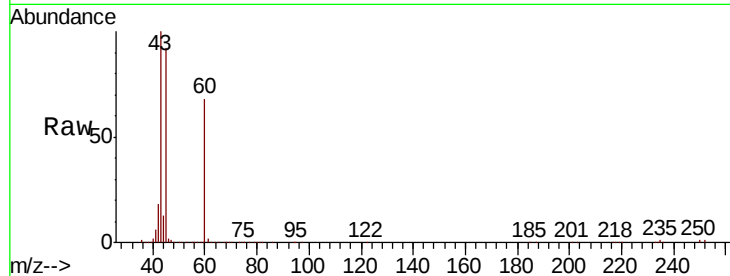




#26
Cyclohexane
Concen: 0.51 ug/l
RT: 7.68 min Scan# 1893
Delta R.T. 0.02 min
Lab File: VN050311.D
Acq: 3 Aug 2018 14:24

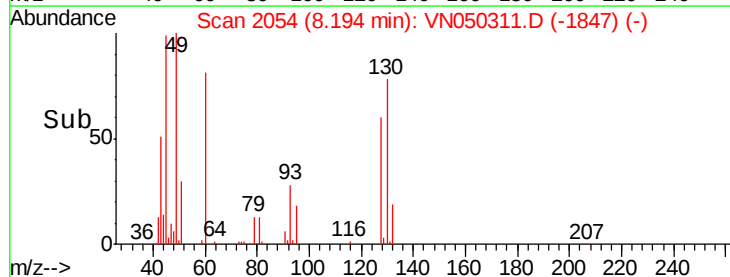
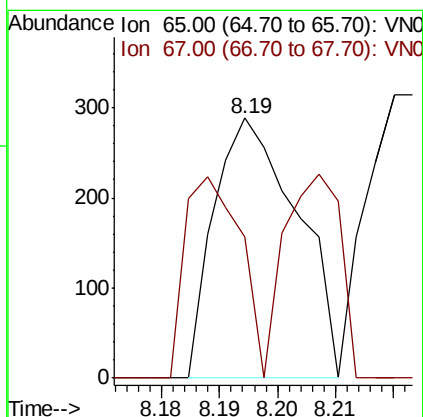
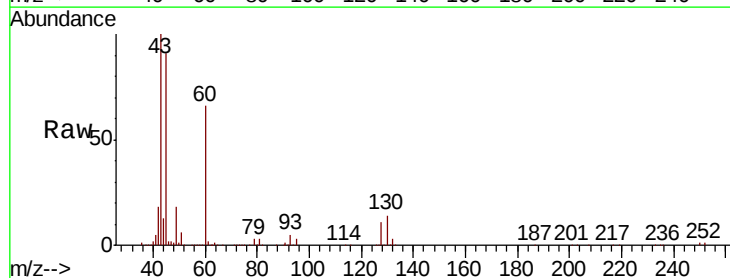
Instrument :
MSVOA_N
ClientSampleId :
DSN001-SEWER-OUTLET-001

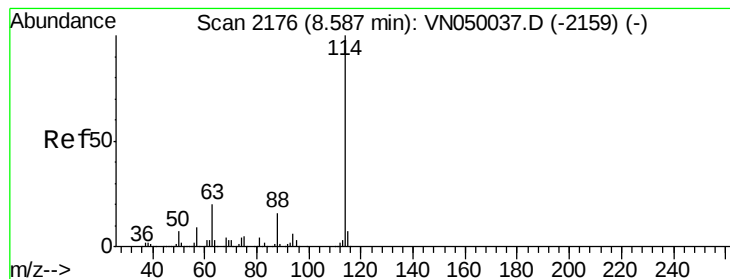
Tot Ion: 56 Resp: 42
Ion Ratio Lower Upper
56 100
89 0.0 3.0 4.4#
84 140.5 69.8 104.8#



#27
1,2-Dichloroethane-d4
Concen: 4.40 ug/l
RT: 8.19 min Scan# 2054
Delta R.T. 0.16 min
Lab File: VN050311.D
Acq: 3 Aug 2018 14:24

Tgt Ion: 65 Resp: 287
Ion Ratio Lower Upper
65 100
67 51.6 42.7 64.1





#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 8.23 min Scan# 2066

Delta R.T. -0.35 min

Lab File: VN050311.D

Acq: 3 Aug 2018 14:24

Instrument :

MSVOA_N

ClientSampleId :

DSN001-SEWER-OUTLET-001

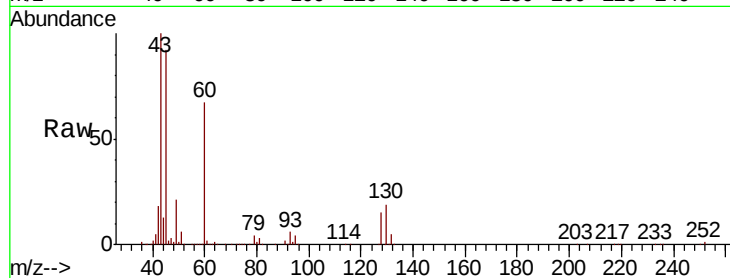
Tot Ion:114 Resp: 142

Ion Ratio Lower Upper

114 100

63 297.9 16.2 24.2#

88 0.0 12.3 18.5#



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 88.00 (87.70 to 88.70): VN0

600

500

400

300

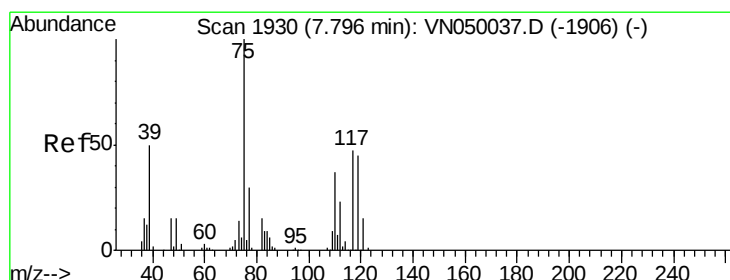
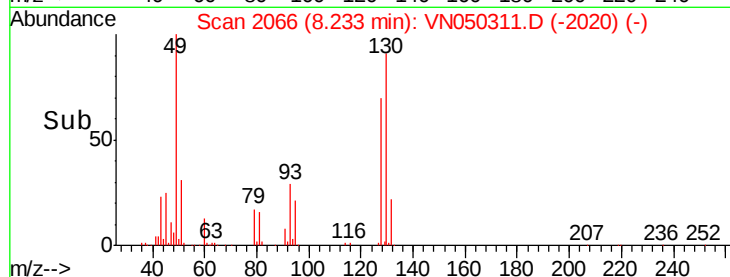
200

100

0

8.22 8.23 8.23 8.24

Time-->



#29

1,1-Dichloropropene

Concen: 93.48 ug/l

RT: 7.59 min Scan# 1866

Delta R.T. -0.21 min

Lab File: VN050311.D

Acq: 3 Aug 2018 14:24

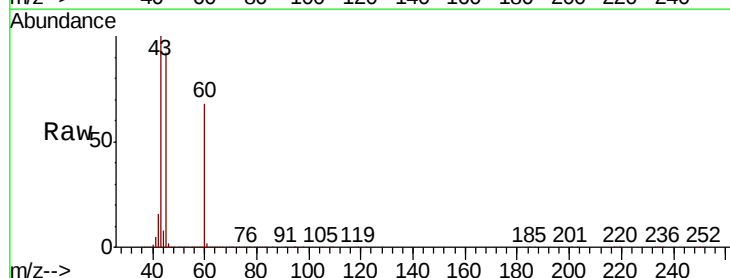
Tgt Ion: 75 Resp: 206

Ion Ratio Lower Upper

75 100

110 52.4 0.0 73.2

77 19.4 0.0 62.0



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VN0

1500

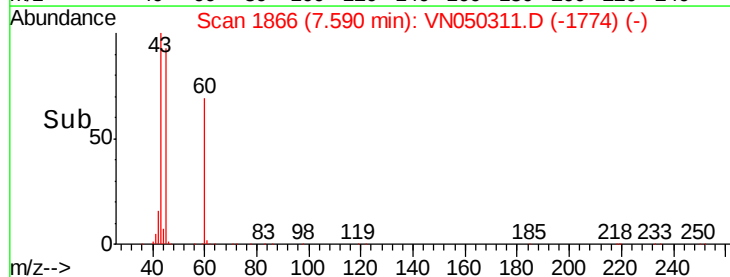
1000

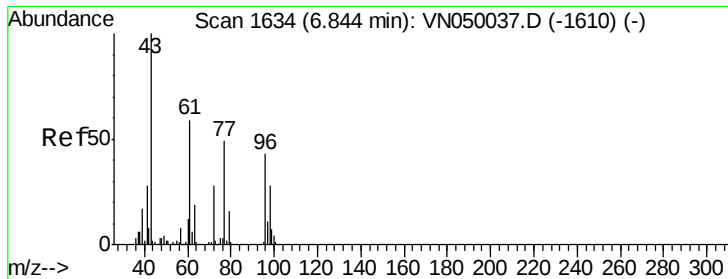
500

0

7.58 7.59 7.60

Time-->





#30

2-Butanone

Concen: 1603.70 ug/l

RT: 6.64 min Scan# 1571

Delta R.T. -0.20 min

Lab File: VN050311.D

Acq: 3 Aug 2018 14:24

Instrument :

MSVOA_N

ClientSampleId :

DSN001-SEWER-OUTLET-001

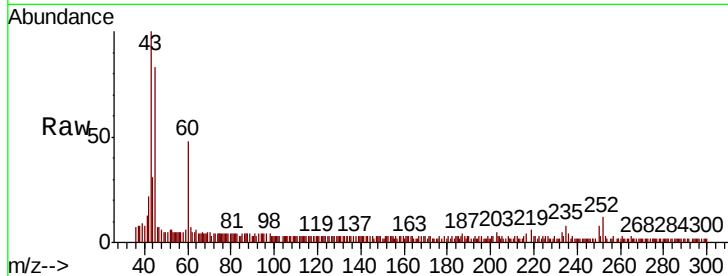
Tot Ion: 43 Resp: 1109

Ion Ratio Lower Upper

43 100

57 77.6 6.8 10.2#

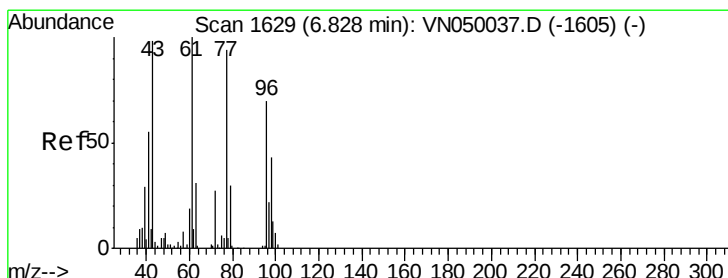
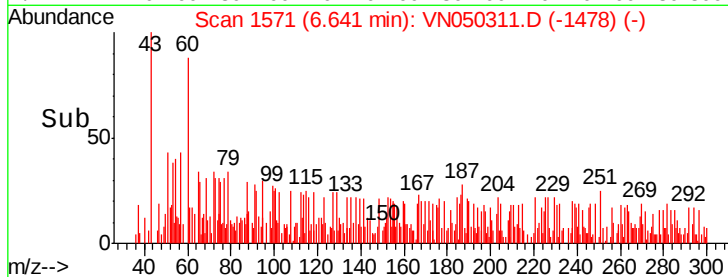
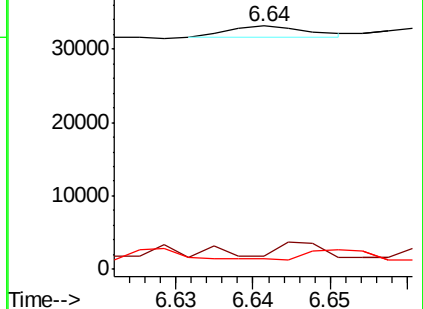
72 0.0 21.4 32.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#31

2,2-Dichloropropane

Concen: 467.17 ug/l

RT: 6.93 min Scan# 1662

Delta R.T. 0.11 min

Lab File: VN050311.D

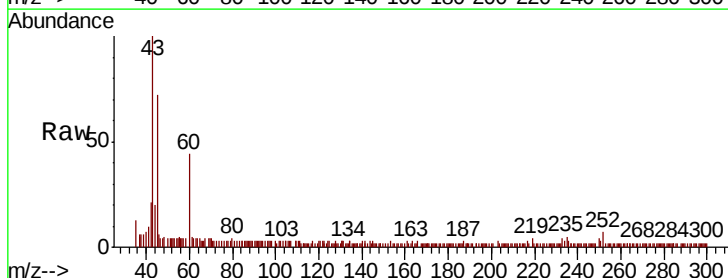
Acq: 3 Aug 2018 14:24

Tgt Ion: 77 Resp: 1138

Ion Ratio Lower Upper

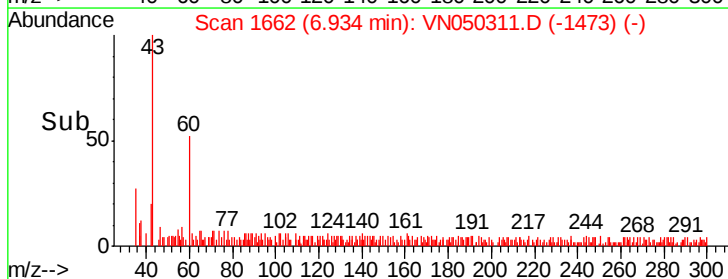
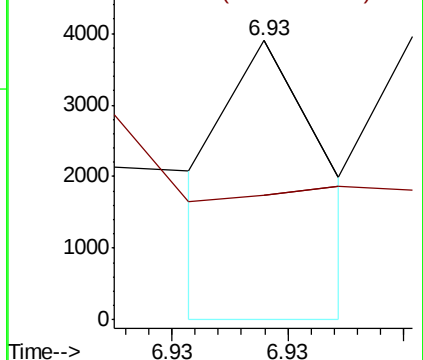
77 100

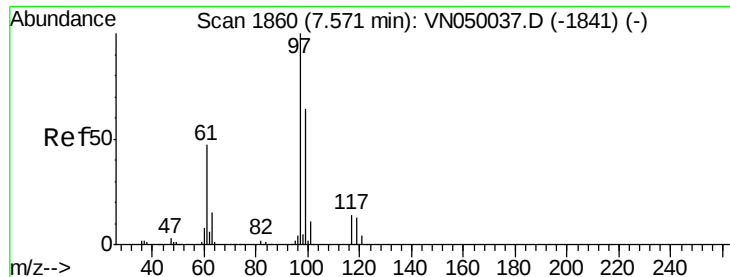
97 23.9 18.9 28.3



Abundance Ion 77.00 (76.70 to 77.70): VN0

Ion 97.00 (96.70 to 97.70): VN0





#32

1,1,1-Trichloroethane

Concen: 60.53 ug/l

RT: 7.57 min Scan# 1861

Delta R.T. 0.00 min

Lab File: VN050311.D

Acq: 3 Aug 2018 14:24

Instrument :

MSVOA_N

ClientSampleId :

DSN001-SEWER-OUTLET-001

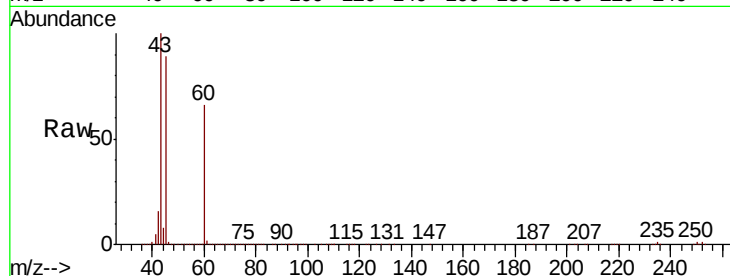
Tot Ion: 97 Resp: 157

Ion Ratio Lower Upper

97 100

99 121.7 51.2 76.8#

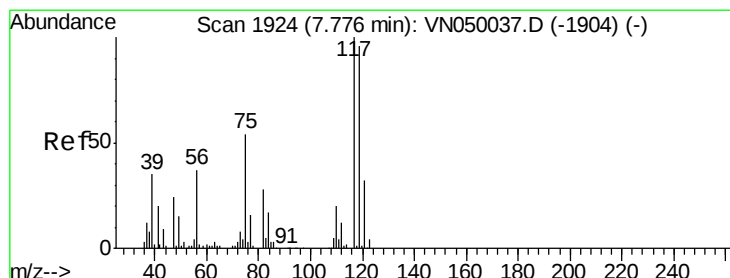
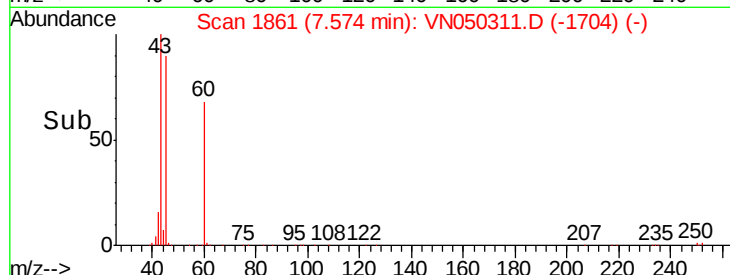
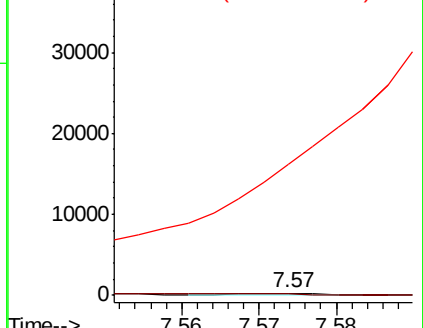
61 0.0 35.3 52.9#



Abundance Ion 97.00 (96.70 to 97.70): VN050037.D (-1841) (-)

Ion 99.00 (98.70 to 99.70): VN050037.D (-1841) (-)

Ion 61.00 (60.70 to 61.70): VN050037.D (-1841) (-)



#33

Carbon Tetrachloride

Concen: 172.99 ug/l

RT: 7.65 min Scan# 1884

Delta R.T. -0.13 min

Lab File: VN050311.D

Acq: 3 Aug 2018 14:24

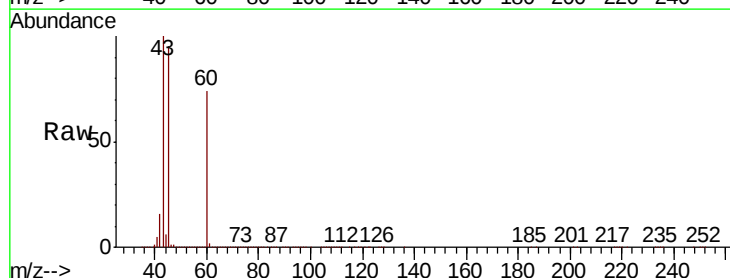
Tgt Ion: 117 Resp: 400

Ion Ratio Lower Upper

117 100

119 62.5 76.9 115.3#

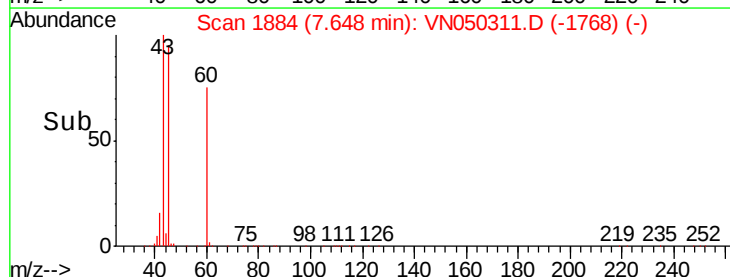
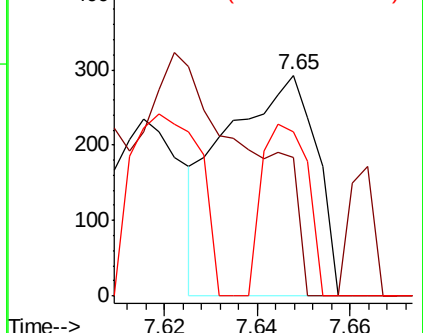
121 18.4 24.4 36.6#

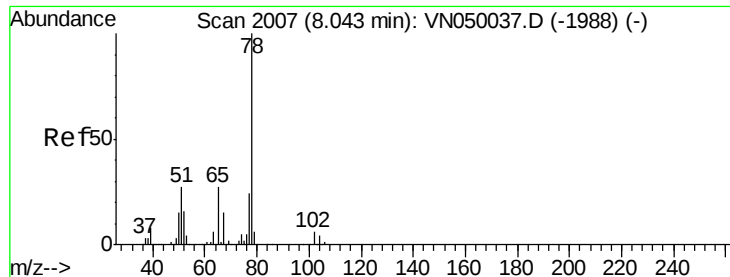


Abundance Ion 117.00 (116.70 to 117.70): VN050037.D (-1904) (-)

Ion 119.00 (118.70 to 119.70): VN050037.D (-1904) (-)

Ion 121.00 (120.70 to 121.70): VN050037.D (-1904) (-)





#34

Benzene

Concen: 20.17 ug/l

RT: 8.05 min Scan# 2009

Delta R.T. 0.01 min

Lab File: VN050311.D

Acq: 3 Aug 2018 14:24

Instrument :

MSVOA_N

ClientSampleId :

DSN001-SEWER-OUTLET-001

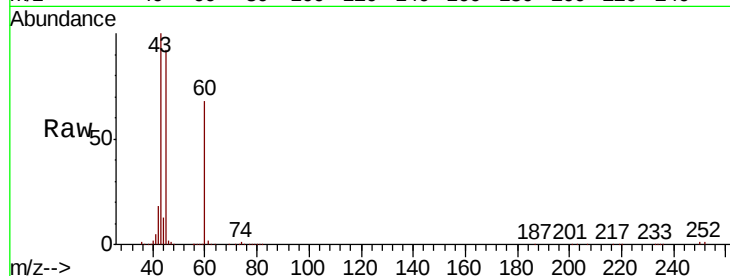
Tot Ion: 78 Resp: 135

Ion Ratio Lower Upper

78 100

77 106.8 19.1 28.7#

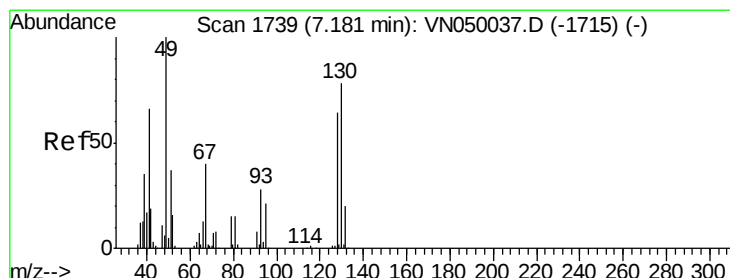
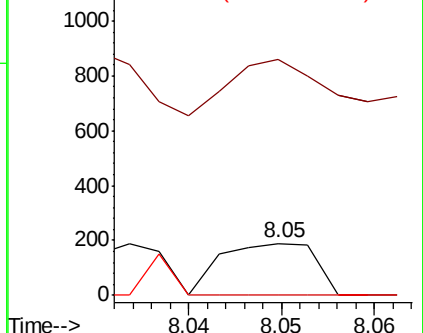
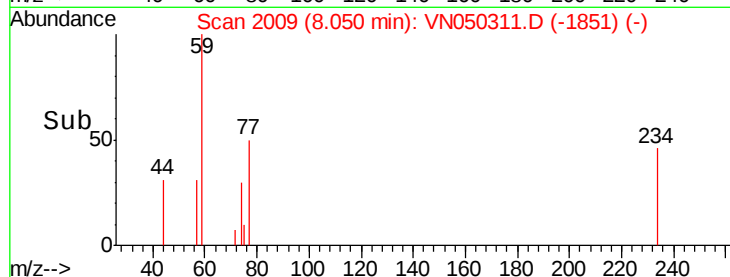
51 0.0 21.0 31.4#



Abundance Ion 78.10 (77.80 to 78.80): VN050311.D (-1851) (-)

Ion 77.00 (76.70 to 77.70): VN050311.D (-1851) (-)

Ion 51.00 (50.70 to 51.70): VN050311.D (-1851) (-)



#35

Methacrylonitrile

Concen: 370.86 ug/l

RT: 7.02 min Scan# 1690

Delta R.T. -0.16 min

Lab File: VN050311.D

Acq: 3 Aug 2018 14:24

Tgt Ion: 41 Resp: 292

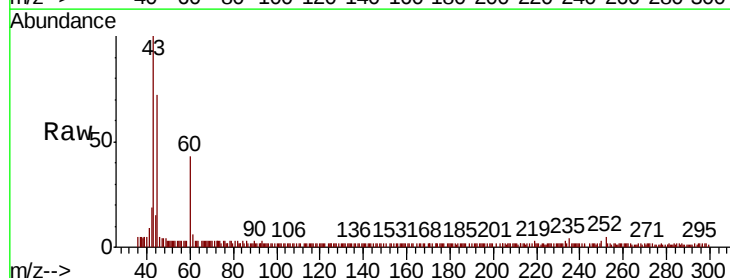
Ion Ratio Lower Upper

41 100

39 751.4 27.6 82.7#

67 5.2 35.1 105.5#

52 0.0 14.1 42.4#

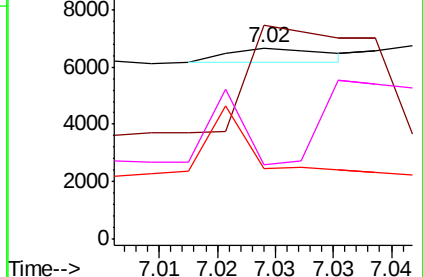
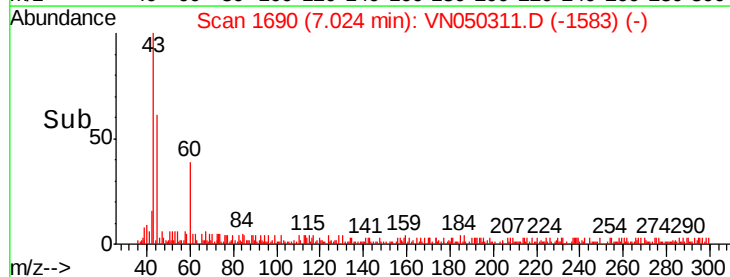


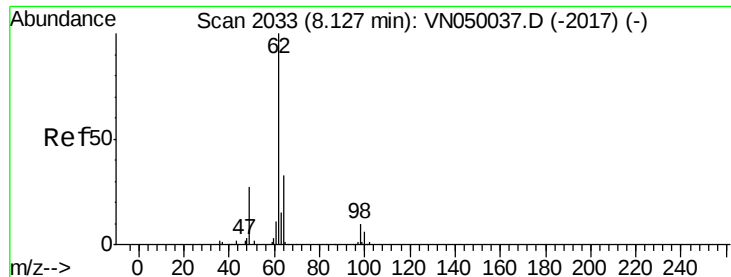
Abundance Ion 41.00 (40.70 to 41.70): VN050311.D (-1583) (-)

Ion 39.00 (38.70 to 39.70): VN050311.D (-1583) (-)

Ion 67.00 (66.70 to 67.70): VN050311.D (-1583) (-)

Ion 52.00 (51.70 to 52.70): VN050311.D (-1583) (-)

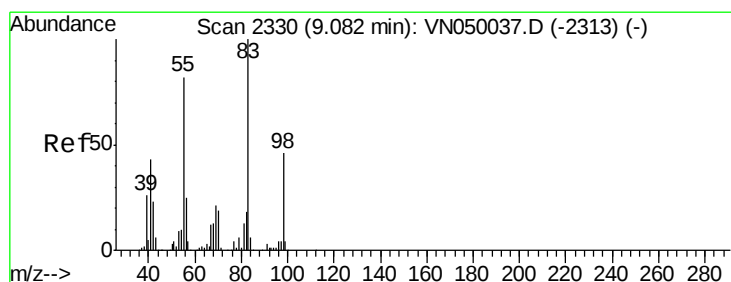
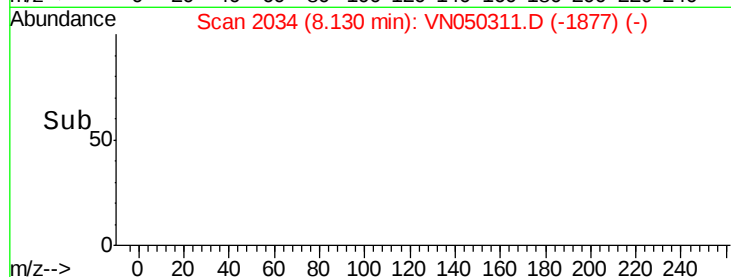
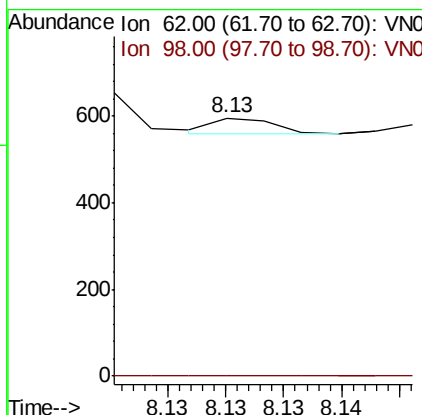
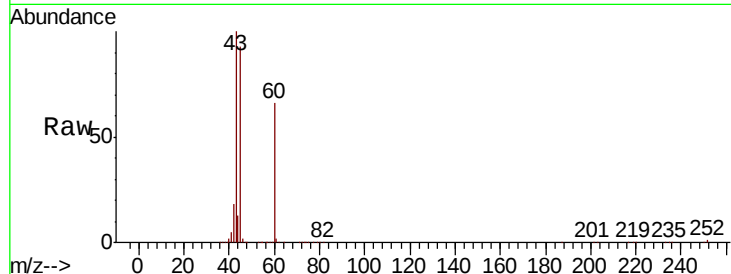




#36
 1,2-Dichloroethane
 Concen: 6.37 ug/l
 RT: 8.13 min Scan# 2034
 Delta R.T. 0.00 min
 Lab File: VN050311.D
 Acq: 3 Aug 2018 14:24

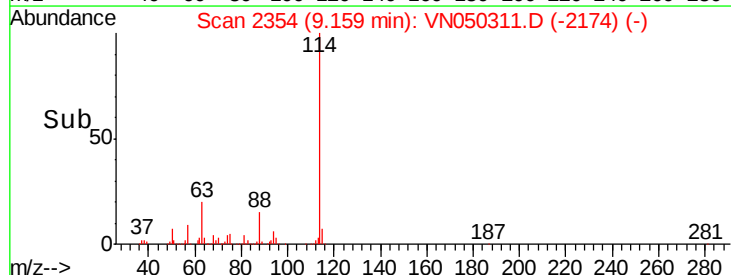
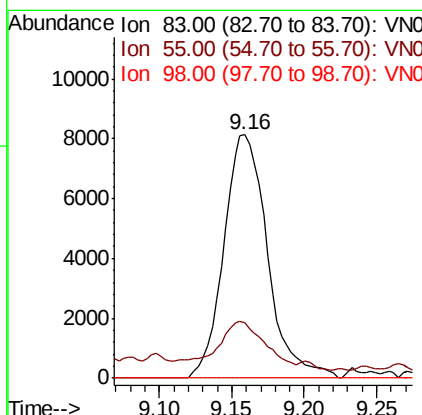
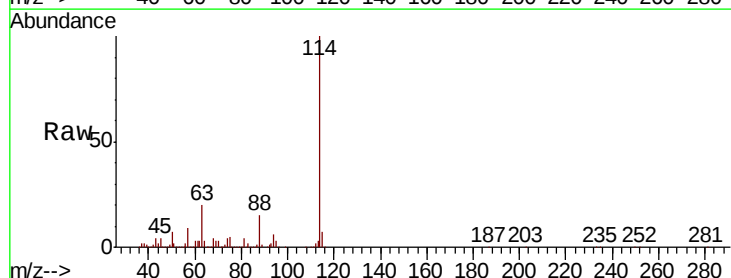
Instrument :
 MSVOA_N
 ClientSampleId :
 DSN001-SEWER-OUTLET-001

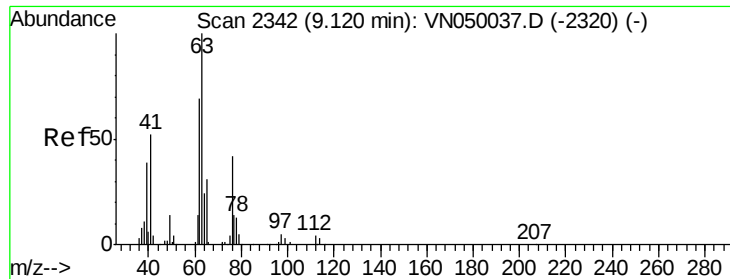
Tot Ion: 62 Resp: 14
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.8 11.6#



#38
 Methylcyclohexane
 Concen: 7323.47 ug/l
 RT: 9.16 min Scan# 2354
 Delta R.T. 0.08 min
 Lab File: VN050311.D
 Acq: 3 Aug 2018 14:24

Tgt Ion: 83 Resp: 17014
 Ion Ratio Lower Upper
 83 100
 55 15.7 39.3 117.8#
 98 0.0 23.0 69.0#





#39

1,2-Dichloropropane

Concen: 95367.55 ug/l

RT: 9.16 min Scan# 2354

Delta R.T. 0.04 min

Lab File: VN050311.D

Acq: 3 Aug 2018 14:24

Instrument :

MSVOA_N

ClientSampleId :

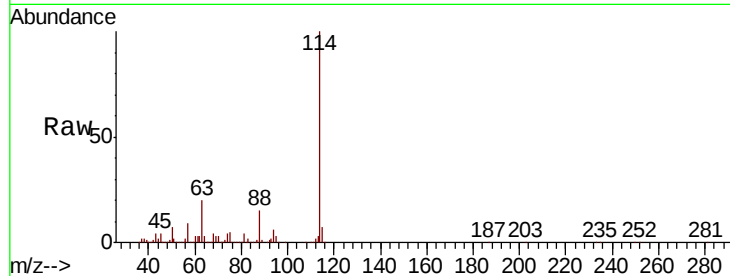
DSN001-SEWER-OUTLET-001

Tot Ion: 63 Resp: 168138

Ion Ratio Lower Upper

63 100

65 0.7 24.2 36.2#



Abundance Ion 63.00 (62.70 to 63.70): VN0

Ion 65.00 (64.70 to 65.70): VN0

9.16

80000

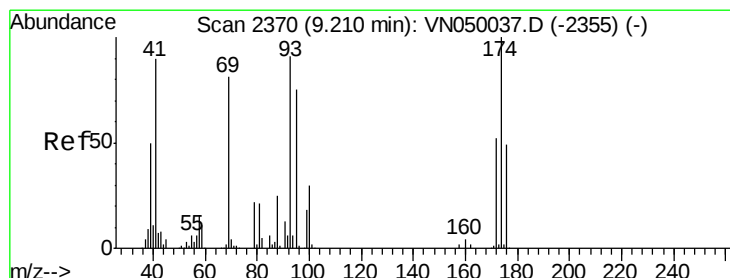
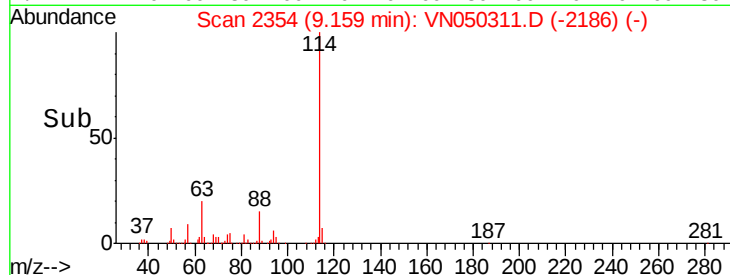
60000

40000

20000

0

Time-->



#40

Dibromomethane

Concen: 172.53 ug/l

RT: 9.65 min Scan# 2508

Delta R.T. 0.44 min

Lab File: VN050311.D

Acq: 3 Aug 2018 14:24

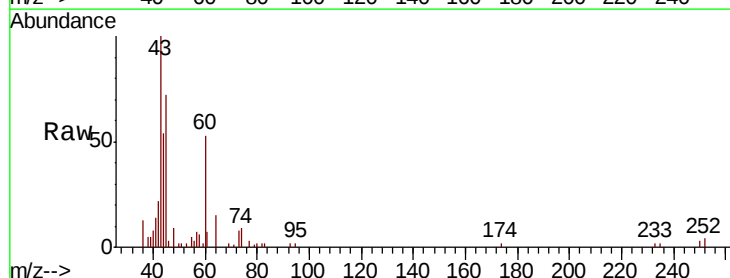
Tgt Ion: 93 Resp: 188

Ion Ratio Lower Upper

93 100

95 85.6 0.0 165.6

174 111.7 0.0 223.2



Abundance Ion 93.00 (92.70 to 93.70): VN0

Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V

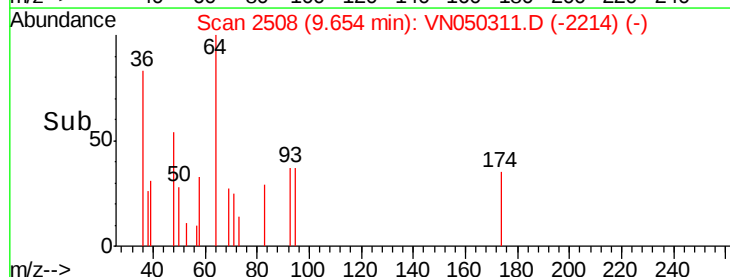
300

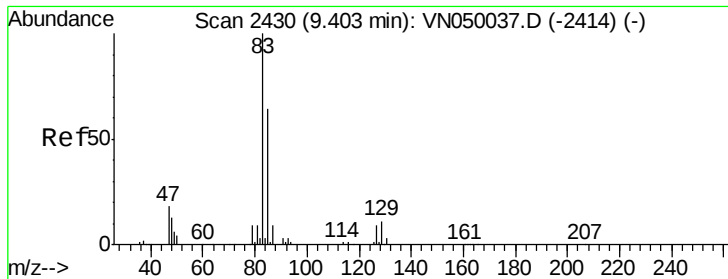
200

100

0

Time-->





#41

Bromodichloromethane

Concen: 3928.66 ug/l

RT: 9.80 min Scan# 2554

Delta R.T. 0.40 min

Lab File: VN050311.D

Acq: 3 Aug 2018 14:24

Instrument :

MSVOA_N

ClientSampleId :

DSN001-SEWER-OUTLET-001

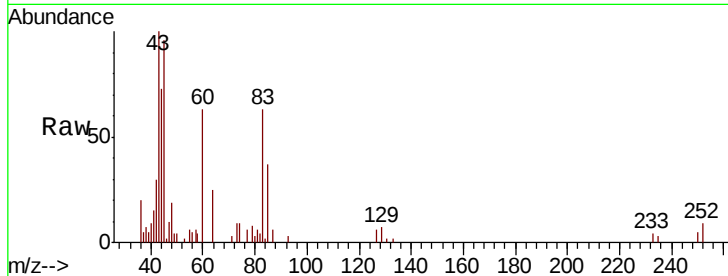
Tot Ion: 83 Resp: 9030

Ion Ratio Lower Upper

83 100

85 59.7 52.6 78.8

127 9.0 7.0 10.4

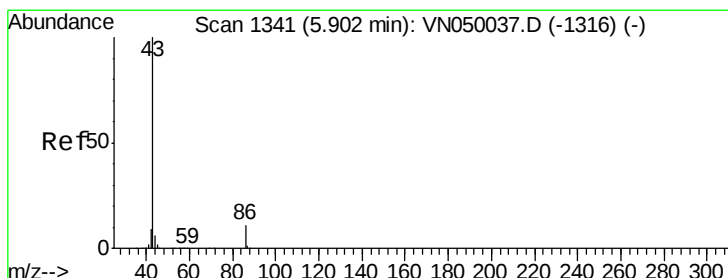
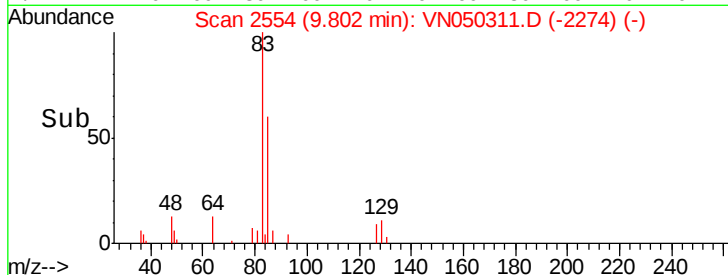


Abundance Ion 83.00 (82.70 to 83.70): VN050037.D (-2414) (-)

Ion 85.00 (84.70 to 85.70): VN050037.D (-2414) (-)

Ion 127.00 (126.70 to 127.70): VN050037.D (-2414) (-)

Time-->



#42

Vinyl Acetate

Concen: 711.71 ug/l

RT: 6.27 min Scan# 1454

Delta R.T. 0.36 min

Lab File: VN050311.D

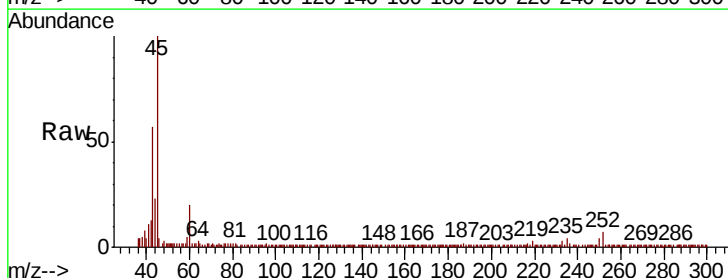
Acq: 3 Aug 2018 14:24

Tgt Ion: 43 Resp: 2316

Ion Ratio Lower Upper

43 100

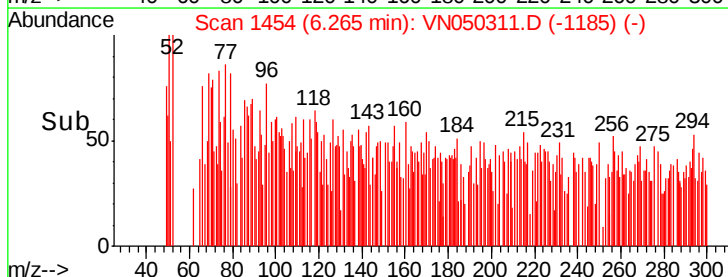
86 10.1 7.3 10.9

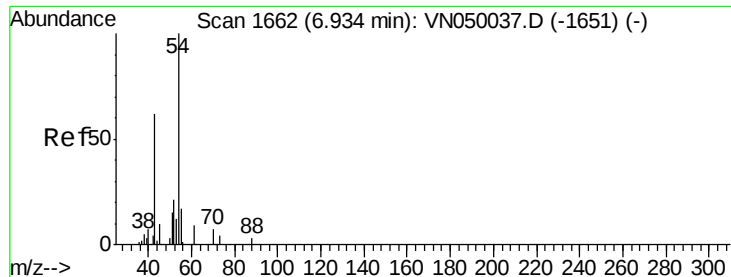


Abundance Ion 43.00 (42.70 to 43.70): VN050037.D (-1316) (-)

Ion 86.00 (85.70 to 86.70): VN050037.D (-1316) (-)

Time-->

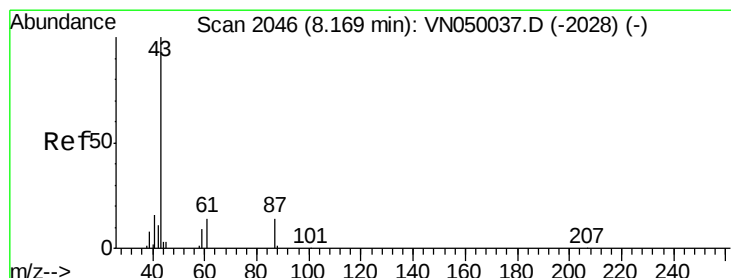
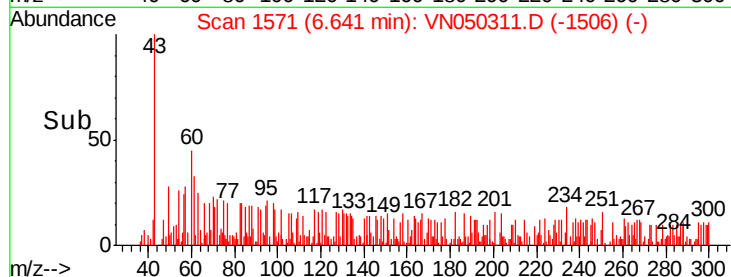
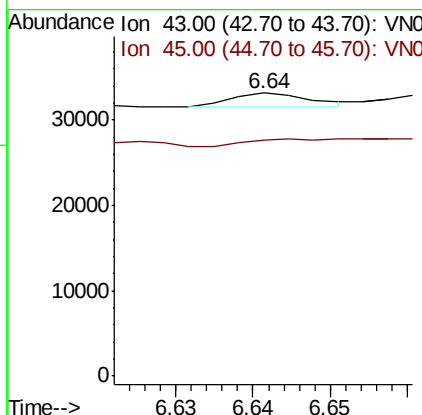
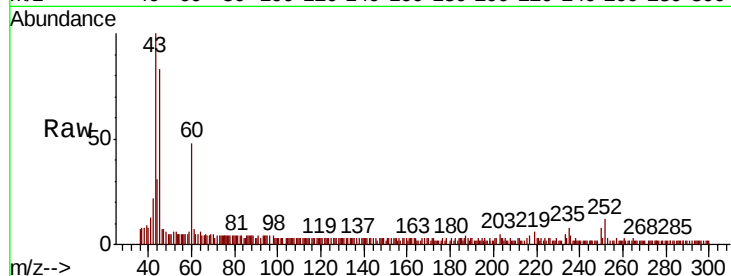




#43
Ethyl Acetate
Concen: 767.99 ug/l
RT: 6.64 min Scan# 1571
Delta R.T. -0.29 min
Lab File: VN050311.D
Acq: 3 Aug 2018 14:24

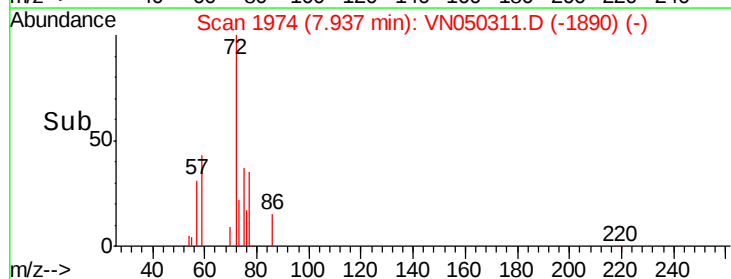
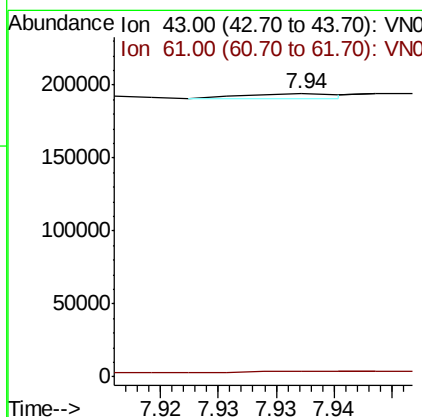
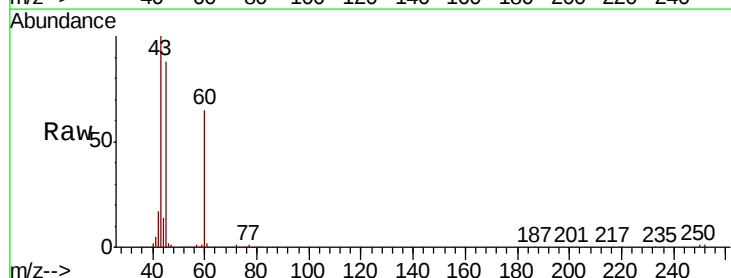
Instrument :
MSVOA_N
ClientSampleId :
DSN001-SEWER-OUTLET-001

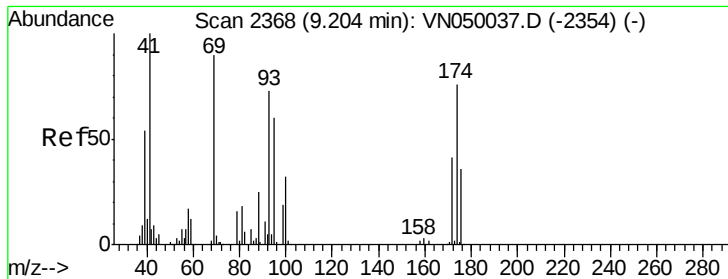
Tot Ion: 43 Resp: 1109
Ion Ratio Lower Upper
43 100
45 49.4 13.0 19.6#



#44
Isopropyl Acetate
Concen: 702.06 ug/l
RT: 7.94 min Scan# 1974
Delta R.T. -0.23 min
Lab File: VN050311.D
Acq: 3 Aug 2018 14:24

Tgt Ion: 43 Resp: 1878
Ion Ratio Lower Upper
43 100
61 24.1 16.4 24.6





#45

1,4-Dioxane

Concen: 7223491.28 ug/l

RT: 9.16 min Scan# 2354

Delta R.T. -0.04 min

Lab File: VN050311.D

Acq: 3 Aug 2018 14:24

Instrument :

MSVOA_N

ClientSampleId :

DSN001-SEWER-OUTLET-001

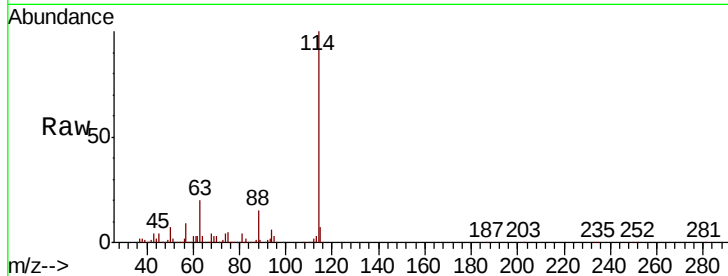
Tot Ion: 88 Resp: 127152

Ion Ratio Lower Upper

88 100

43 0.0 26.9 40.3#

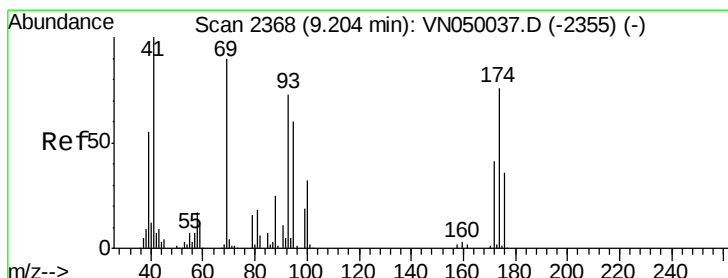
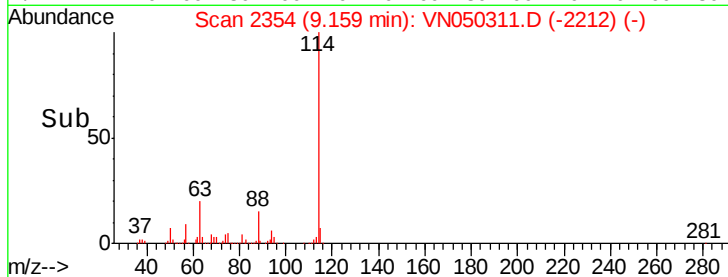
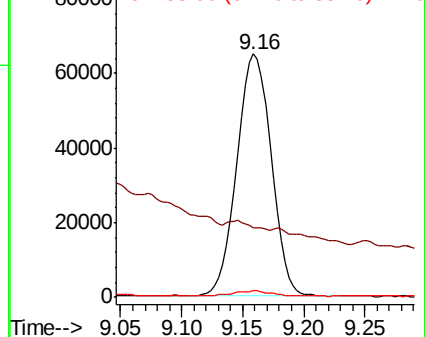
58 2.0 53.6 80.4#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#46

Methyl methacrylate

Concen: 134.18 ug/l

RT: 9.45 min Scan# 2445

Delta R.T. 0.25 min

Lab File: VN050311.D

Acq: 3 Aug 2018 14:24

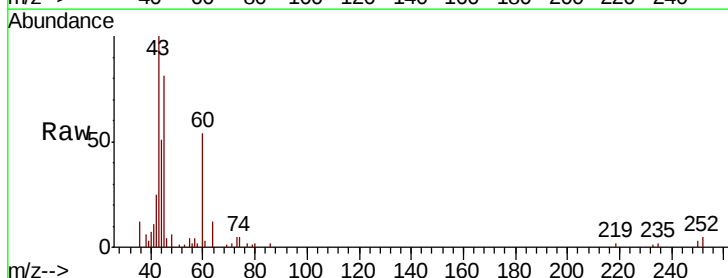
Tgt Ion: 41 Resp: 174

Ion Ratio Lower Upper

41 100

69 51.3 44.0 132.1

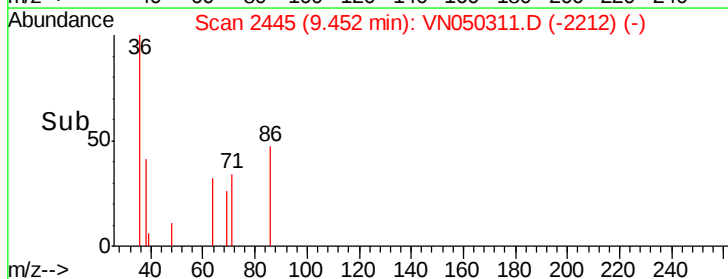
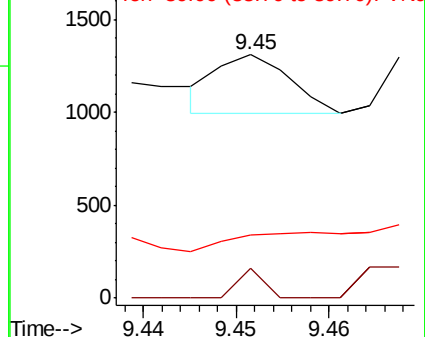
39 27.0 27.0 80.8

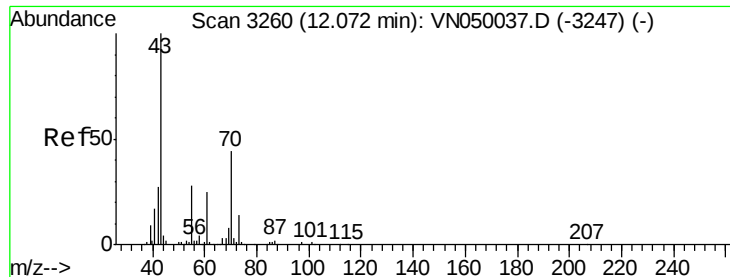


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#47

n-amvl Acetate

Concen: 221.48 ug/l

RT: 12.30 min Scan# 3330

Delta R.T. 0.23 min

Lab File: VN050311.D

Acq: 3 Aug 2018 14:24

Instrument :

MSVOA_N

ClientSampleId :

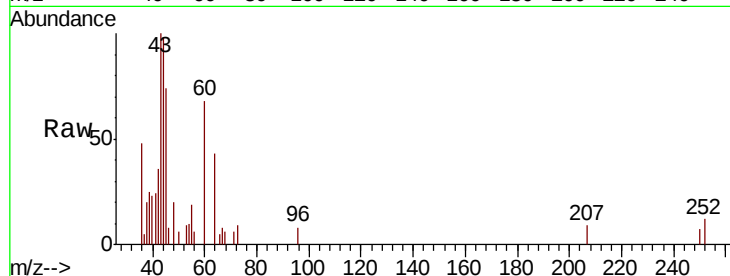
DSN001-SEWER-OUTLET-001

Tot Ion: 43 Resp: 461

Ion Ratio Lower Upper

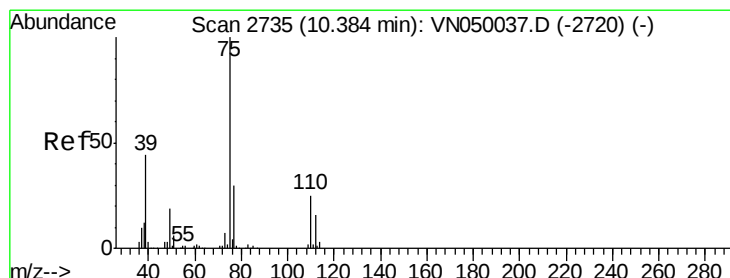
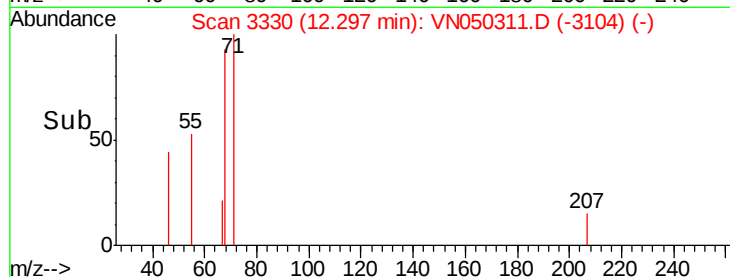
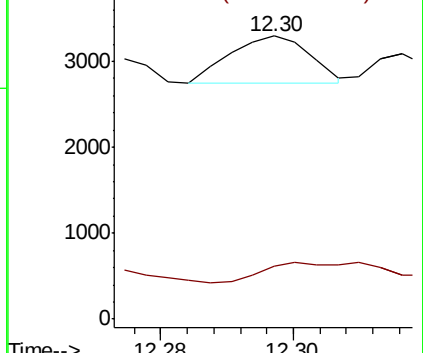
43 100

55 30.2 21.0 31.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#48

t-1,3-Dichloropropene

Concen: 339.59 ug/l

RT: 10.61 min Scan# 2805

Delta R.T. 0.23 min

Lab File: VN050311.D

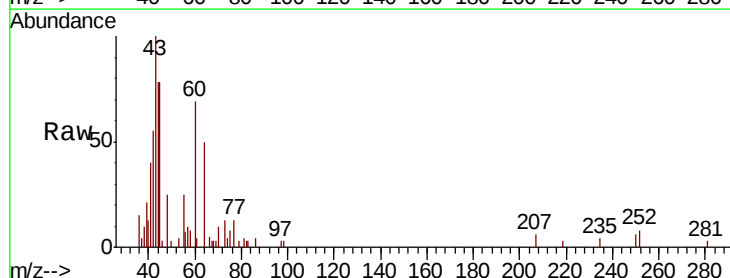
Acq: 3 Aug 2018 14:24

Tgt Ion: 75 Resp: 744

Ion Ratio Lower Upper

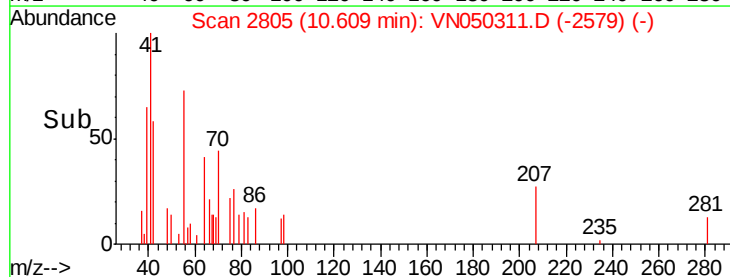
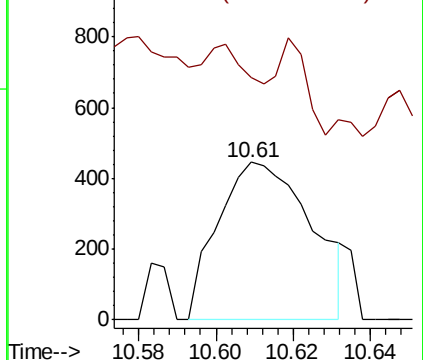
75 100

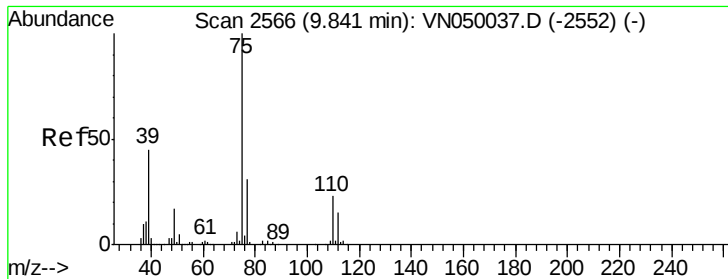
77 27.0 24.6 37.0



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





#49

cis-1,3-Dichloropropene

Concen: 40.01 ug/l

RT: 9.89 min Scan# 2580

Delta R.T. 0.05 min

Lab File: VN050311.D

Acq: 3 Aug 2018 14:24

Instrument :

MSVOA_N

ClientSampleId :

DSN001-SEWER-OUTLET-001

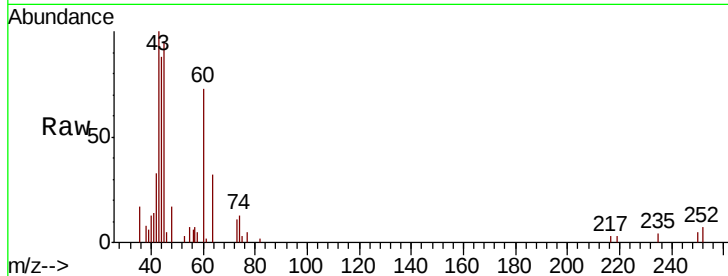
Tot Ion: 75 Resp: 103

Ion Ratio Lower Upper

75 100

77 0.0 25.7 38.5#

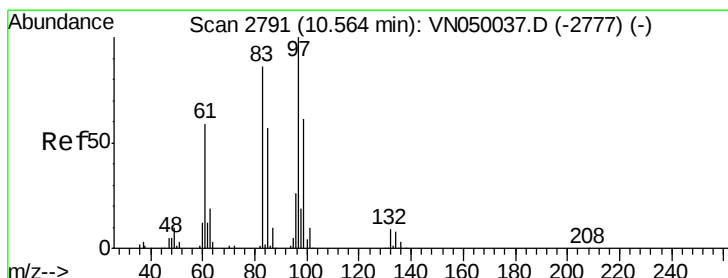
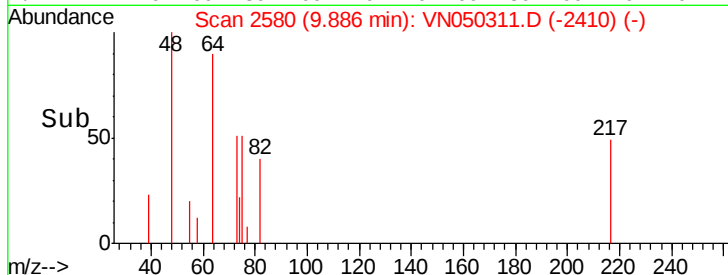
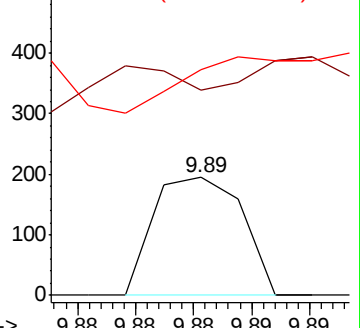
39 37.4 36.3 54.5



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#50

1,1,2-Trichloroethane

Concen: 38.36 ug/l

RT: 10.53 min Scan# 2780

Delta R.T. -0.04 min

Lab File: VN050311.D

Acq: 3 Aug 2018 14:24

Tgt Ion: 97 Resp: 60

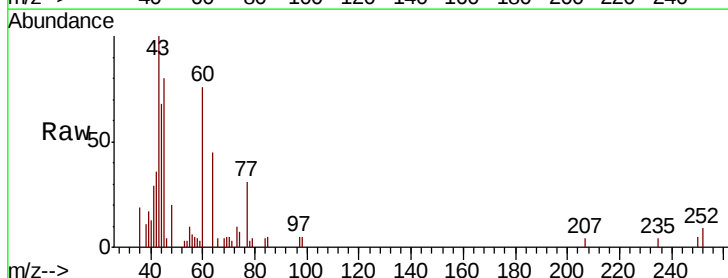
Ion Ratio Lower Upper

97 100

83 0.0 68.1 102.1#

85 16.0 45.4 68.2#

99 0.0 49.4 74.0#

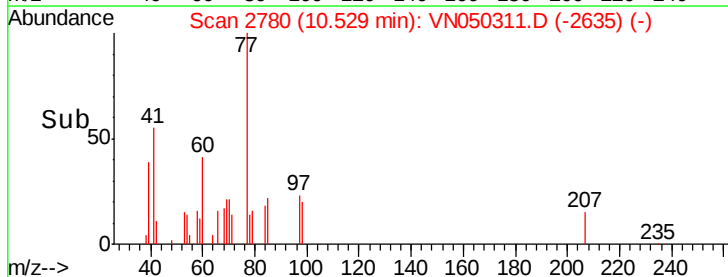
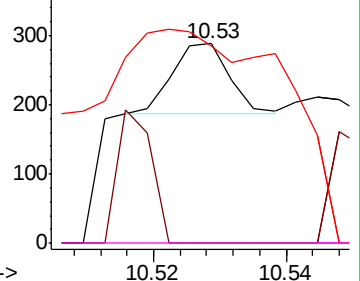


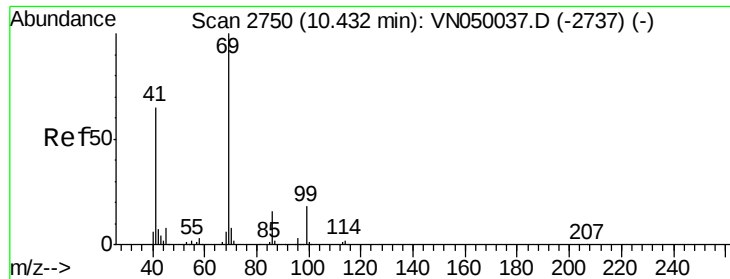
Abundance Ion 97.00 (96.70 to 97.70): VN0

Ion 82.95 (82.65 to 83.65): VN0

Ion 84.95 (84.65 to 85.65): VN0

Ion 98.95 (98.65 to 99.65): VN0





#51

Ethyl methacrylate

Concen: 2209.20 ug/l

RT: 10.39 min Scan# 2736

Delta R.T. -0.04 min

Lab File: VN050311.D

Acq: 3 Aug 2018 14:24

Instrument :

MSVOA_N

ClientSampleId :

DSN001-SEWER-OUTLET-001

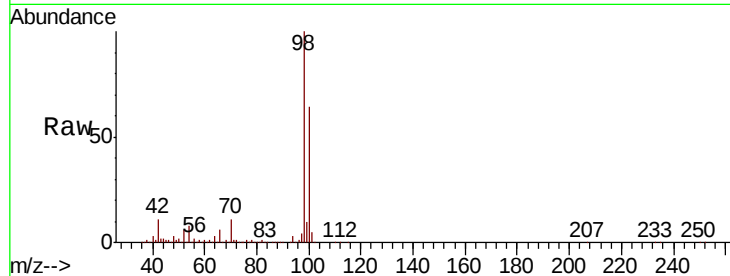
Tot Ion: 69 Resp: 4194

Ion Ratio Lower Upper

69 100

41 67.3 31.9 95.9

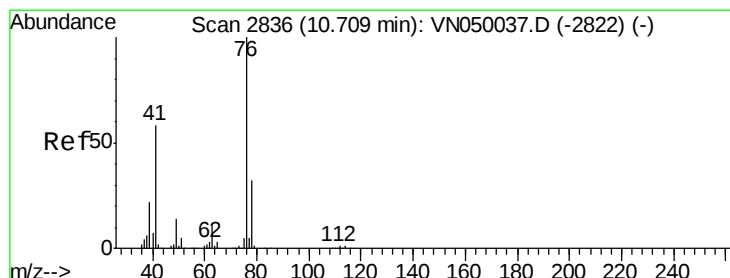
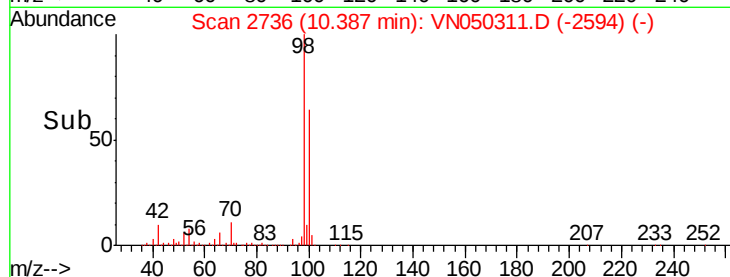
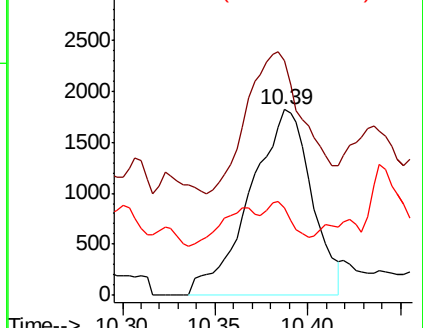
39 20.5 16.7 50.1



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#52

1,3-Dichloropropane

Concen: 114.47 ug/l

RT: 10.90 min Scan# 2895

Delta R.T. 0.19 min

Lab File: VN050311.D

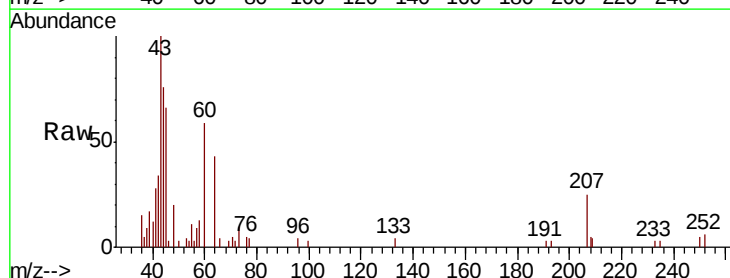
Acq: 3 Aug 2018 14:24

Tgt Ion: 76 Resp: 294

Ion Ratio Lower Upper

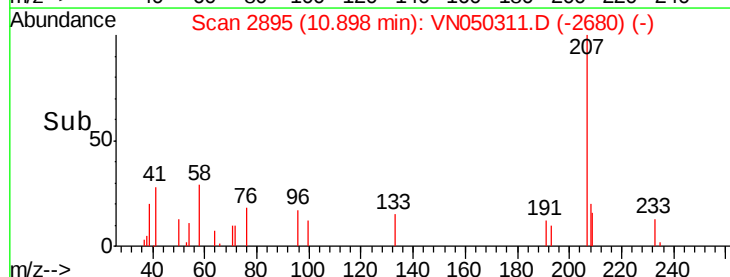
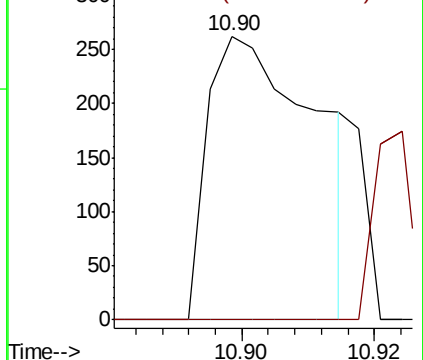
76 100

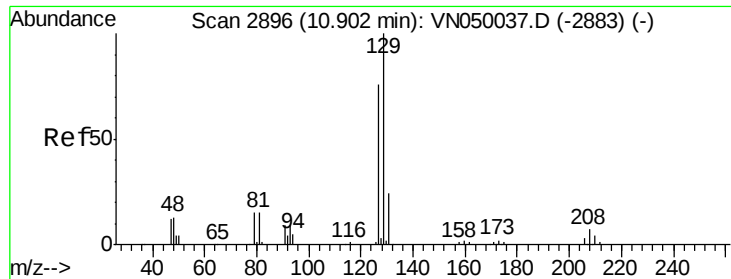
78 22.1 0.0 65.6



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

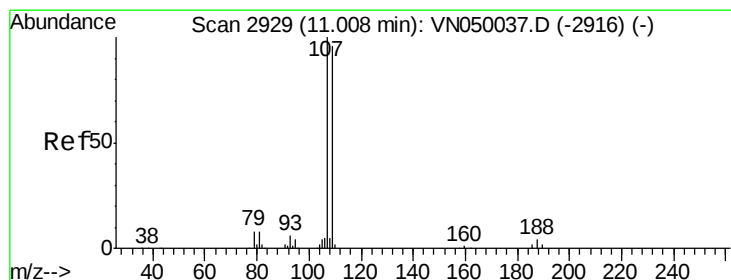
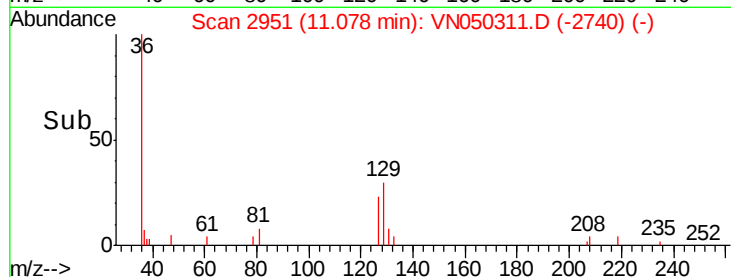
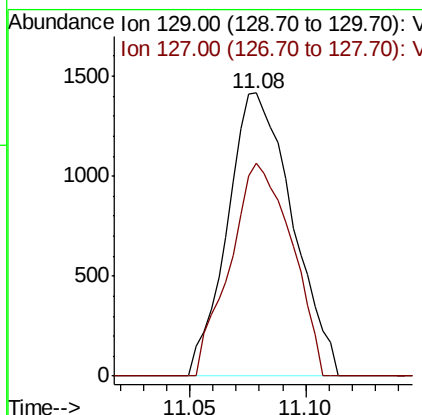
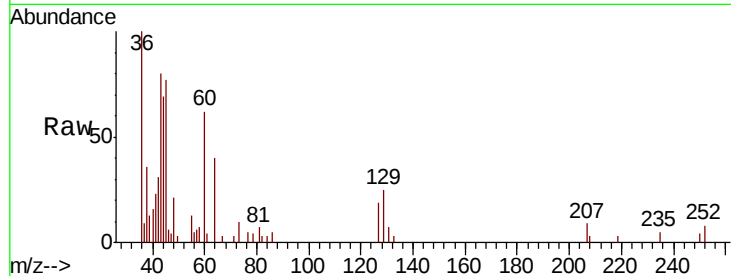




#53
 Dibromochloromethane
 Concen: 1549.27 ug/l
 RT: 11.08 min Scan# 2951
 Delta R.T. 0.18 min
 Lab File: VN050311.D
 Acq: 3 Aug 2018 14:24

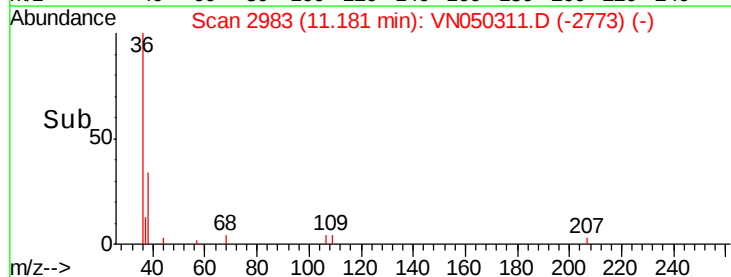
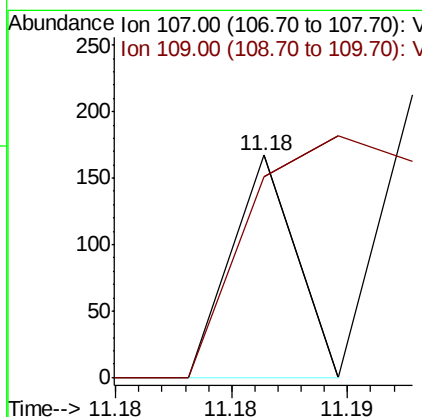
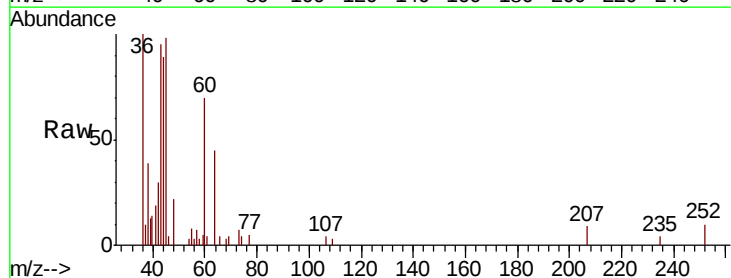
Instrument :
 MSVOA_N
 ClientSampleId :
 DSN001-SEWER-OUTLET-001

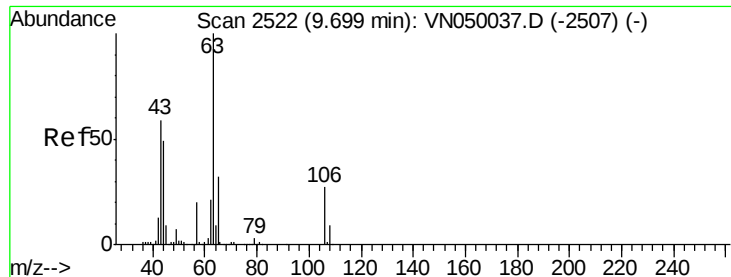
Tot Ion:129 Resp: 2750
 Ion Ratio Lower Upper
 129 100
 127 71.7 38.1 114.5



#54
 1,2-Dibromoethane
 Concen: 20.89 ug/l
 RT: 11.18 min Scan# 2983
 Delta R.T. 0.17 min
 Lab File: VN050311.D
 Acq: 3 Aug 2018 14:24

Tgt Ion:107 Resp: 32
 Ion Ratio Lower Upper
 107 100
 109 0.0 76.2 114.2#





#55

2-Chloroethyl vinyl ether

Concen: 75.65 ug/l

RT: 9.59 min Scan# 2489

Delta R.T. -0.11 min

Lab File: VN050311.D

Acq: 3 Aug 2018 14:24

Instrument :

MSVOA_N

ClientSampleId :

DSN001-SEWER-OUTLET-001

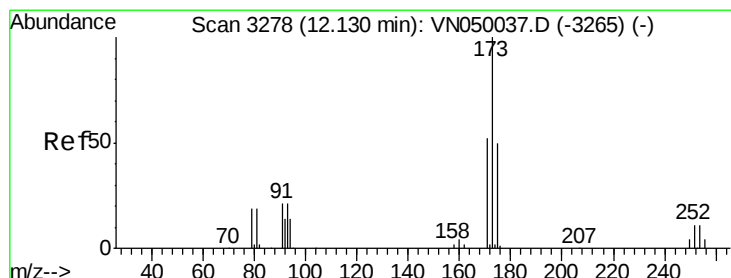
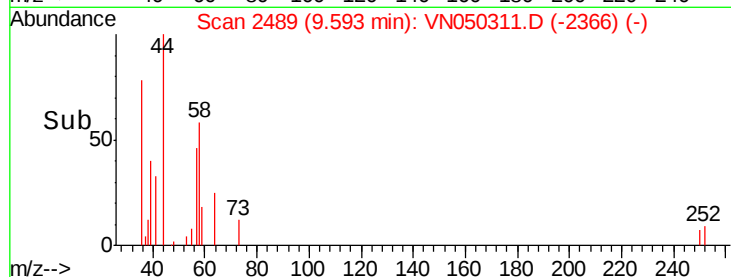
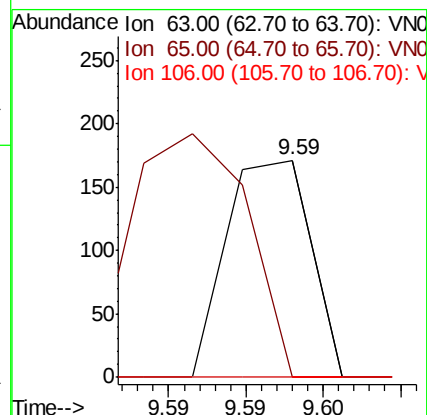
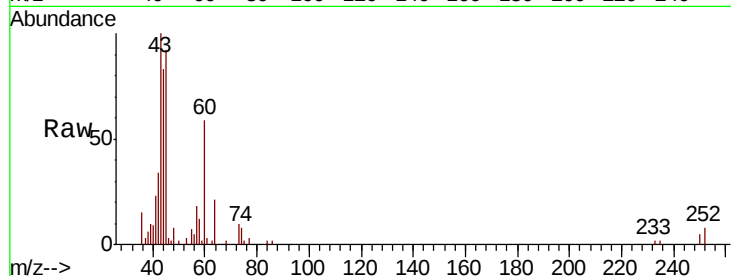
Tot Ion: 63 Resp: 65

Ion Ratio Lower Upper

63 100

65 152.3 25.5 38.3#

106 0.0 21.8 32.6#



#56

Bromoform

Concen: 2506.02 ug/l

RT: 12.21 min Scan# 3302

Delta R.T. 0.08 min

Lab File: VN050311.D

Acq: 3 Aug 2018 14:24

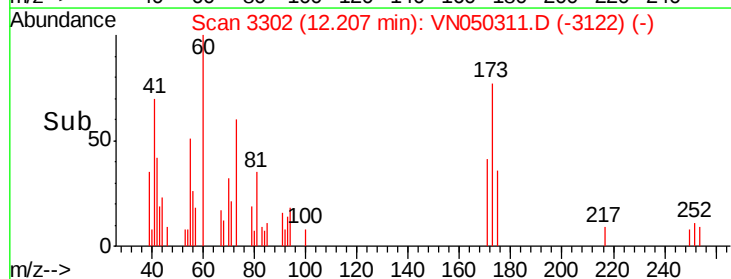
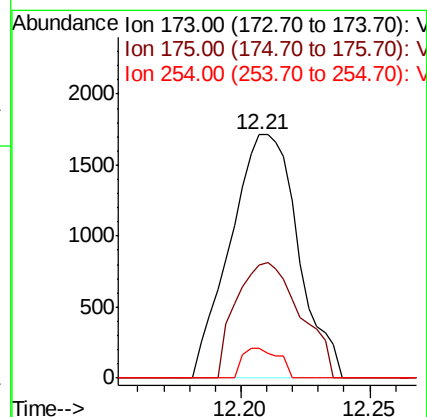
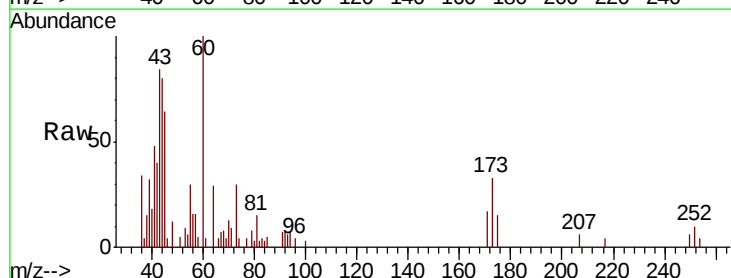
Tgt Ion: 173 Resp: 3141

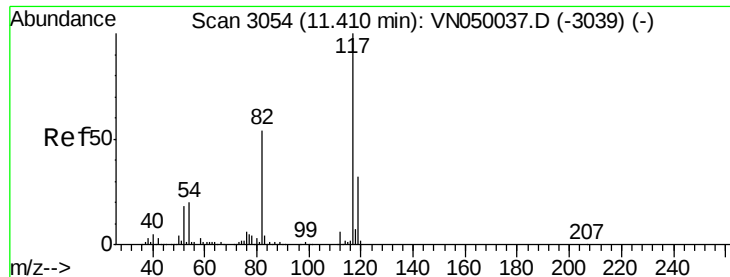
Ion Ratio Lower Upper

173 100

175 45.0 38.6 57.8

254 5.6 8.8 13.2#

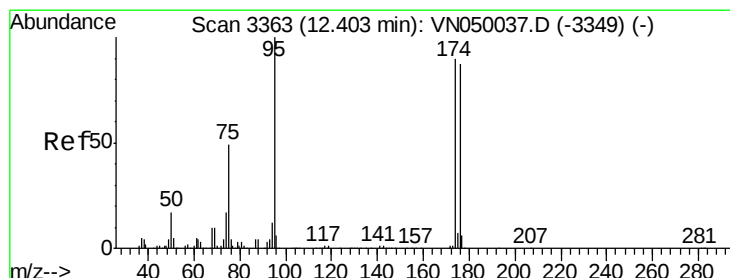
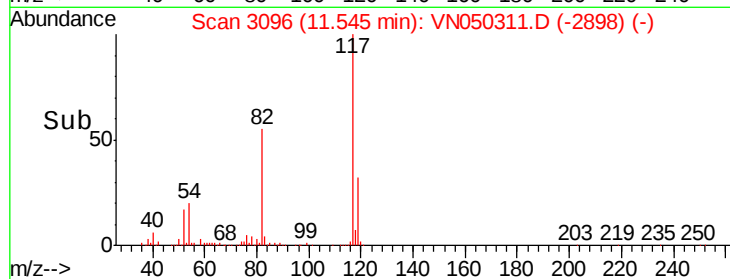
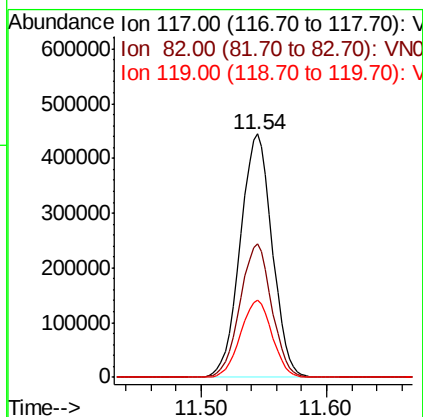
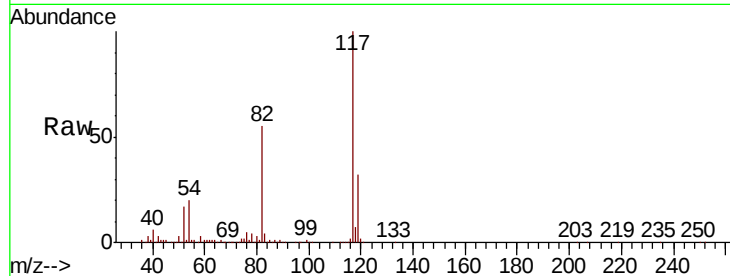




#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.54 min Scan# 3096
Delta R.T. 0.14 min
Lab File: VN050311.D
Acq: 3 Aug 2018 14:24

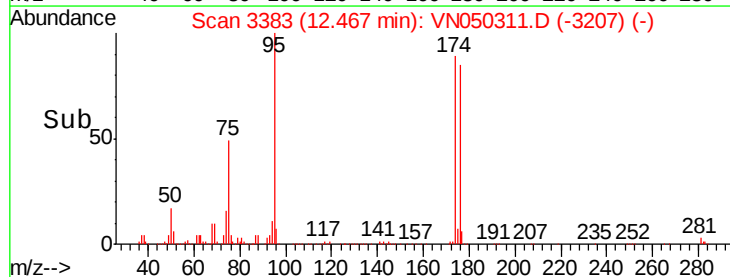
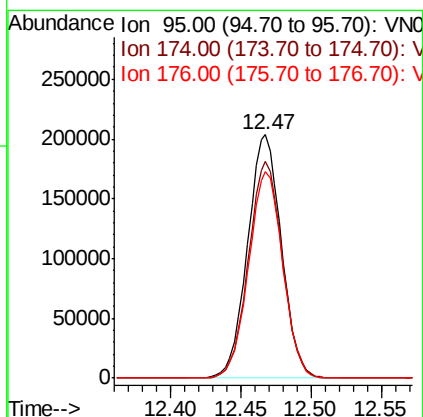
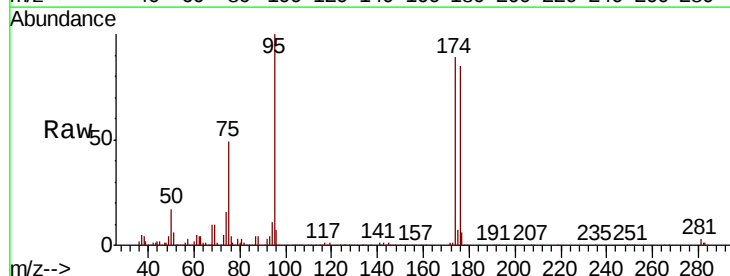
Instrument :
MSVOA_N
ClientSampleId :
DSN001-SEWER-OUTLET-001

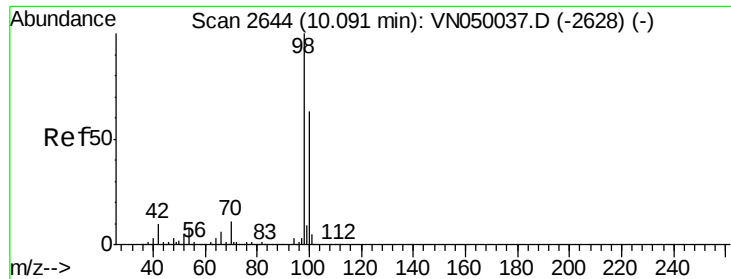
Tot Ion:117 Resp: 786090
Ion Ratio Lower Upper
117 100
82 54.2 42.4 63.6
119 31.5 25.4 38.0



#60
4-Bromofluorobenzene
Concen: 28.27 ug/l
RT: 12.47 min Scan# 3383
Delta R.T. 0.06 min
Lab File: VN050311.D
Acq: 3 Aug 2018 14:24

Tgt Ion: 95 Resp: 341385
Ion Ratio Lower Upper
95 100
174 89.4 72.3 108.5
176 85.7 70.0 105.0





#63

Toluene-d8

Concen: 25.48 ug/l

RT: 10.38 min Scan# 2733

Delta R.T. 0.29 min

Lab File: VN050311.D

Acq: 3 Aug 2018 14:24

Instrument :

MSVOA_N

ClientSampleId :

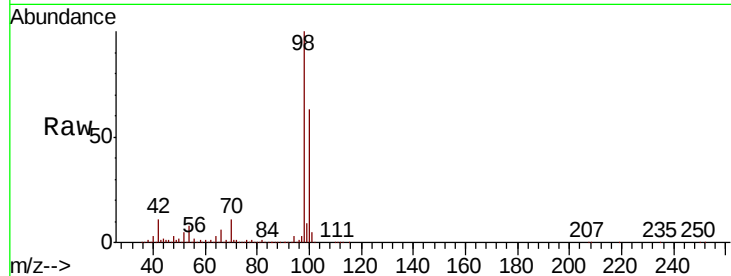
DSN001-SEWER-OUTLET-001

Tot Ion: 98 Resp: 956843

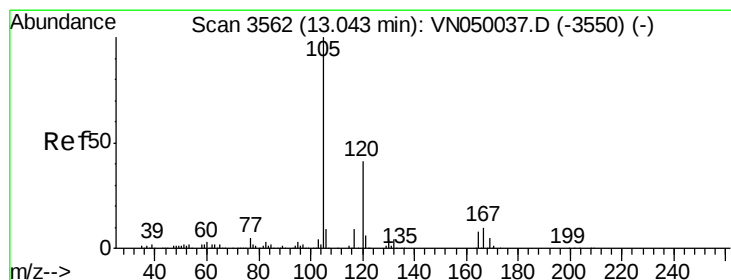
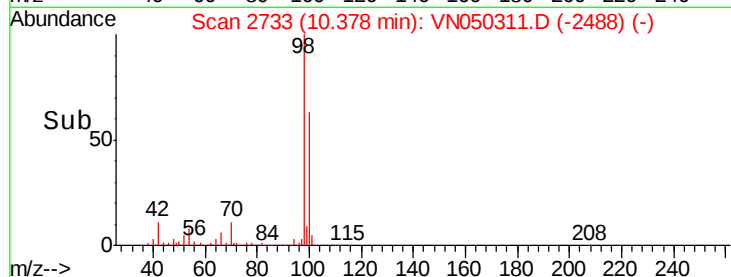
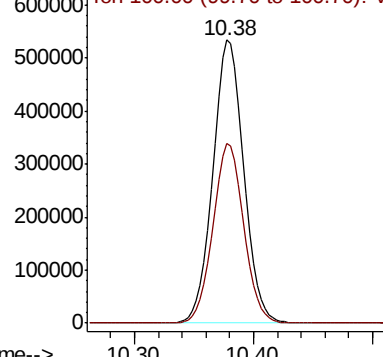
Ion Ratio Lower Upper

98 100

100 63.3 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN050037.D (-2628) (-)



#80

1,2,4-Trimethylbenzene

Concen: 0.39 ug/l

RT: 13.09 min Scan# 3576

Delta R.T. 0.05 min

Lab File: VN050311.D

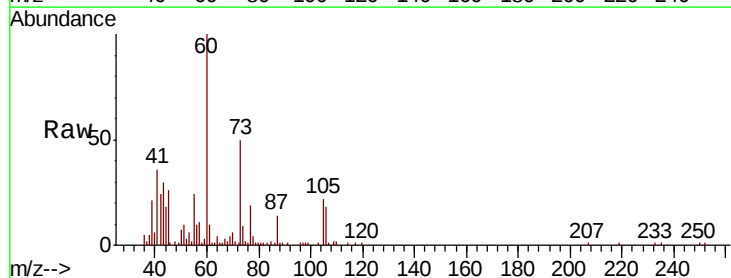
Acq: 3 Aug 2018 14:24

Tgt Ion:105 Resp: 14647

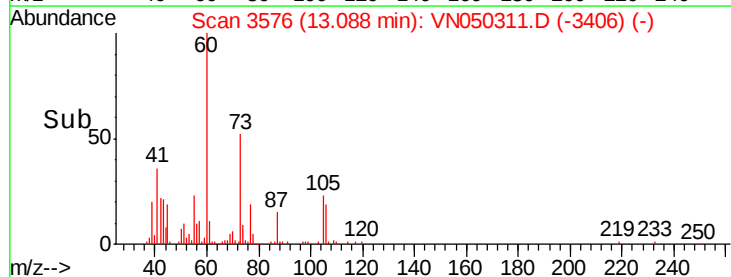
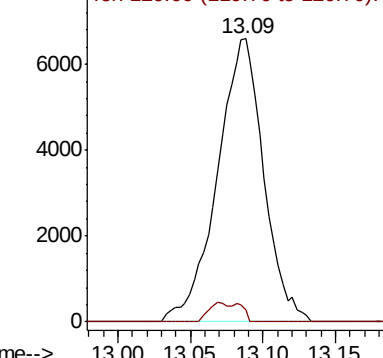
Ion Ratio Lower Upper

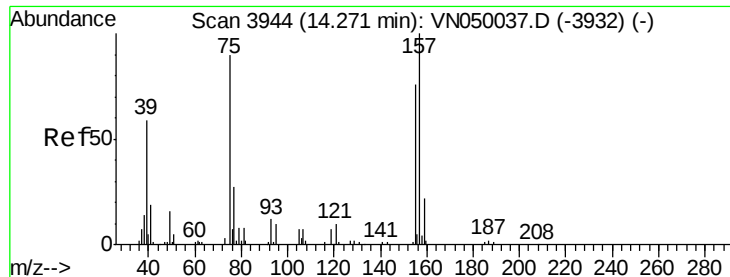
105 100

120 1.9 0.0 90.6



Abundance Ion 105.00 (104.70 to 105.70): VN050037.D (-3550) (-)

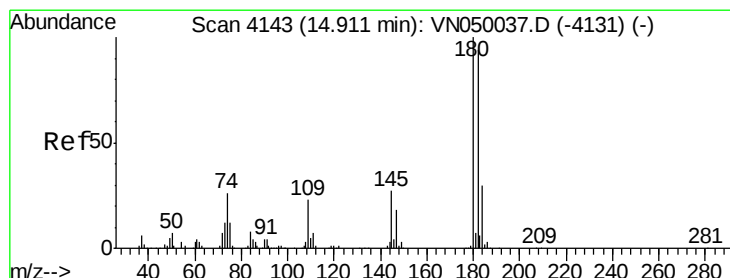
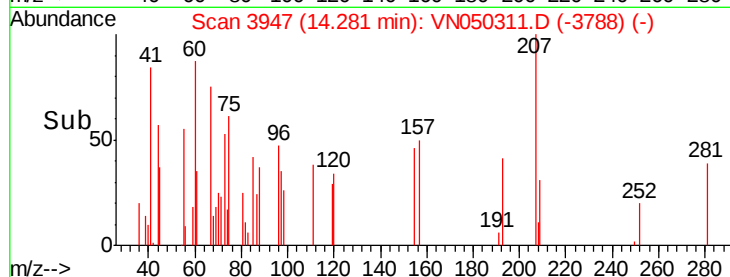
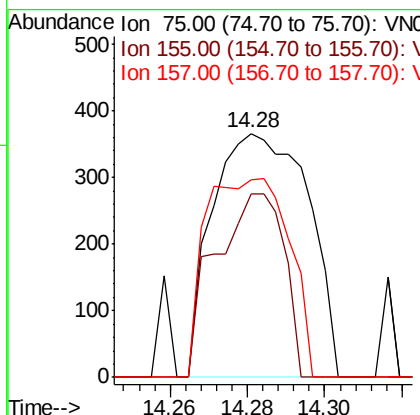
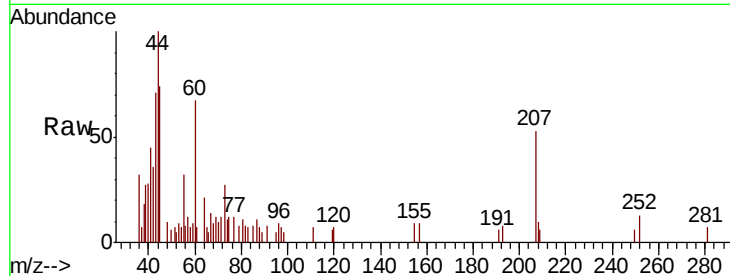




#88
 1,2-Dibromo-3-Chloropropane
 Concen: 0.33 ug/l
 RT: 14.28 min Scan# 3947
 Delta R.T. 0.01 min
 Lab File: VN050311.D
 Acq: 3 Aug 2018 14:24

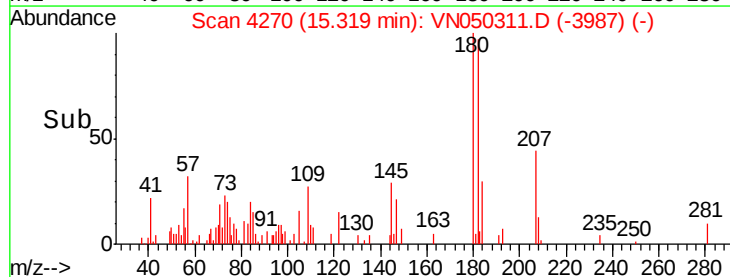
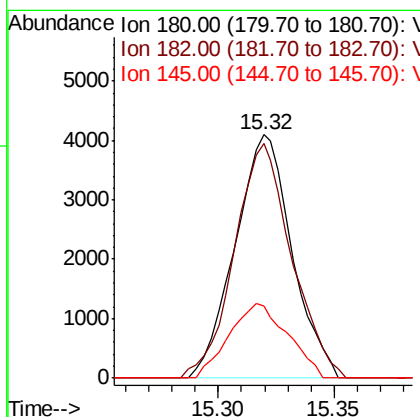
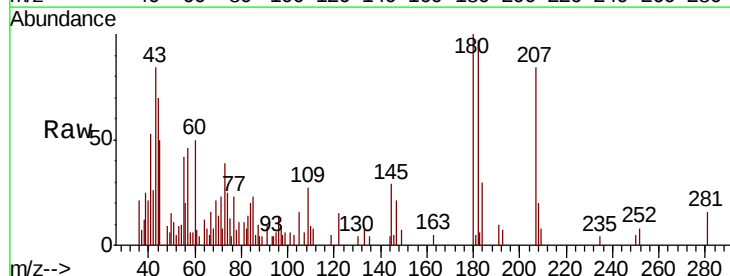
Instrument :
 MSVOA_N
 ClientSampleId :
 DSN001-SEWER-OUTLET-001

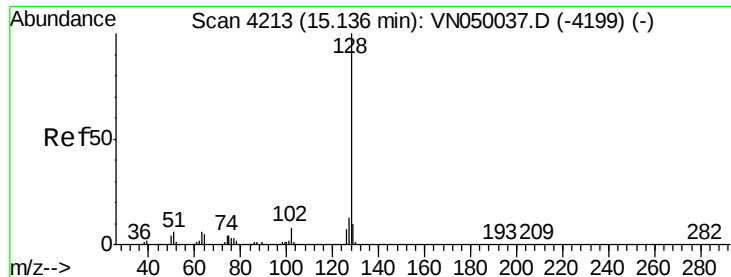
Tot Ion: 75 Resp: 628
 Ion Ratio Lower Upper
 75 100
 155 36.9 73.0 109.6#
 157 33.3 94.9 142.3#



#89
 1,2,4-Trichlorobenzene
 Concen: 0.72 ug/l
 RT: 15.32 min Scan# 4270
 Delta R.T. 0.41 min
 Lab File: VN050311.D
 Acq: 3 Aug 2018 14:24

Tgt Ion: 180 Resp: 6969
 Ion Ratio Lower Upper
 180 100
 182 96.9 76.7 115.1
 145 31.5 23.4 35.0





#91

Naphthalene

Concen: 9.11 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

Lab File: VN050311.D

Acq: 3 Aug 2018 14:24

Instrument :

MSVOA_N

ClientSampleId :

DSN001-SEWER-OUTLET-001

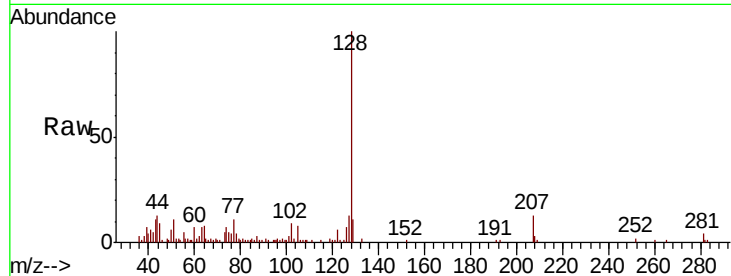
Tot Ion:128 Resp: 44652

Ion Ratio Lower Upper

128 100

127 14.4 10.2 15.4

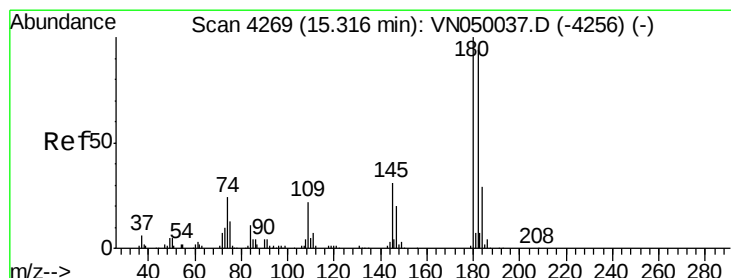
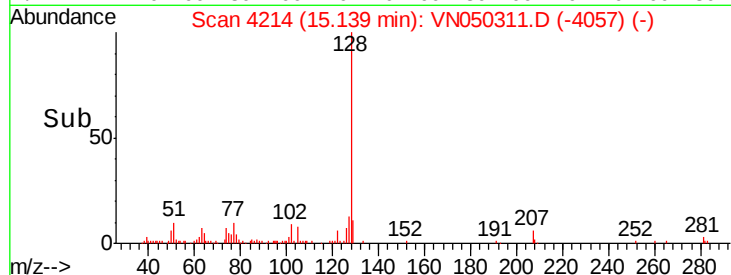
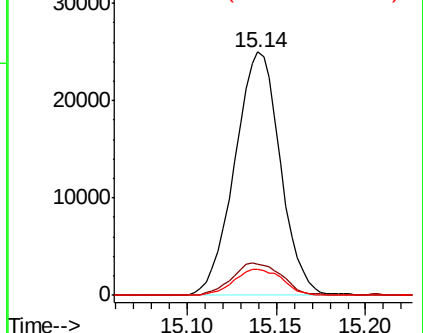
129 11.3 9.0 13.4



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: 0.71 ug/l

RT: 15.32 min Scan# 4270

Delta R.T. 0.00 min

Lab File: VN050311.D

Acq: 3 Aug 2018 14:24

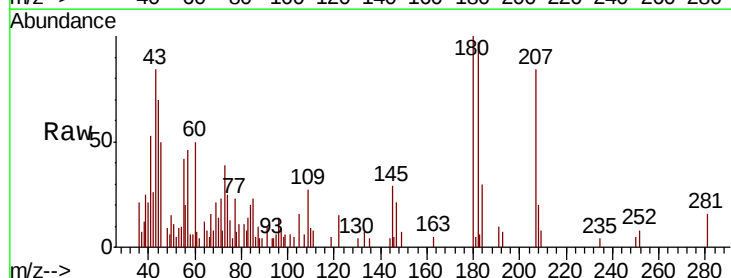
Tgt Ion:180 Resp: 6969

Ion Ratio Lower Upper

180 100

182 96.9 0.0 188.8

145 31.5 0.0 60.8



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

