

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051019\
 Data File : VX009476.D
 Acq On : 10 May 2019 12:27
 Operator : JC/SP
 Sample : K2789-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SEWER-OUTLET-02

Quant Time: May 11 02:33:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 02 06:46:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	28057	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	165562	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	143855	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	70564	30.32	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.07%
60) 4-Bromofluorobenzene	11.13	95	69855	28.58	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.27%
63) Toluene-d8	8.71	98	203624	29.86	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.53%

Target Compounds

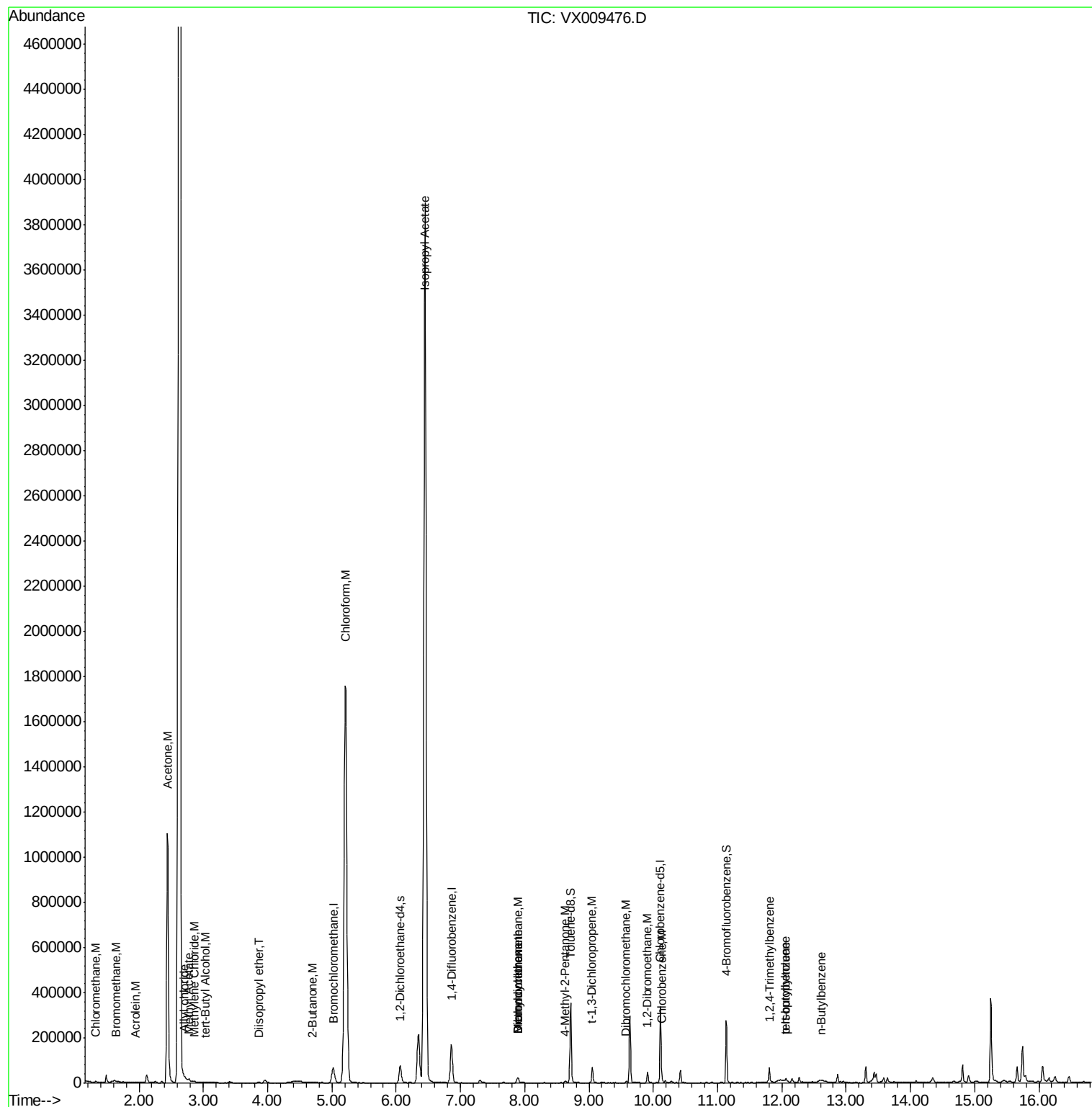
					Ovalue
3) Chloromethane	1.32	50	1930	0.963	ug/l 93
5) Bromomethane	1.64	94	380	0.300	ug/l # 21
12) Methyl Acetate	2.78	43	12970	4.487	ug/l 96
13) Acrolein	1.95	56	89	0.224	ug/l 99
15) Acetone	2.44	58	379115	1052.612	ug/l 97
17) Allyl chloride	2.71	41	4112	1.116	ug/l # 55
18) Methylene Chloride	2.85	84	556	0.300	ug/l # 92
20) Diisopropyl ether	3.86	45	2515	0.347	ug/l # 69
23) tert-Butyl Alcohol	3.02	59	440	0.830	ug/l # 100
25) Chloroform	5.21	83	2111374	658.944	ug/l 99
30) 2-Butanone	4.69	43	3469	1.823	ug/l # 81
38) Methylcyclohexane	7.90	83	9660	3.218	ug/l # 16
40) Dibromomethane	7.90	93	325	0.268	ug/l # 3
41) Bromodichloromethane	7.90	83	9660	3.907	ug/l 99
44) Isopropyl Acetate	6.45	43	5545854	995.793	ug/l 99
48) t-1,3-Dichloropropene	9.05	75	2473	0.857	ug/l # 81
53) Dibromochloromethane	9.59	129	930	0.504	ug/l 100
54) 1,2-Dibromoethane	9.91	107	3168	1.666	ug/l # 38
58) 4-Methyl-2-Pentanone	8.63	43	8306	2.348	ug/l # 59
64) Chlorobenzene	10.13	112	2018	0.436	ug/l # 87
79) tert-butylbenzene	12.06	119	4234	0.625	ug/l 67
80) 1,2,4-Trimethylbenzene	11.80	105	17874	2.546	ug/l 32
82) p-Isopropyltoluene	12.06	119	4234	0.579	ug/l # 32
85) n-Butylbenzene	12.62	91	12904	1.927	ug/l 36

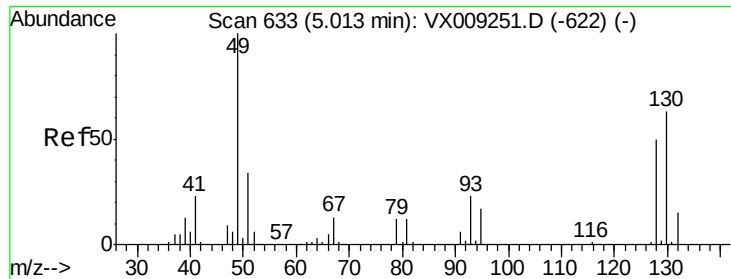
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 10 May 2019 12:27
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Instrument :
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ClientSampleId :
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Quant Time: May 11 02:33:12 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu May 02 06:46:57 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.02 min Scan# 634

Delta R.T. 0.01 min

Lab File: VX009476.D

Acq: 10 May 2019 12:27

Instrument :

MSVOA_X

ClientSampleId :

SEWER-OUTLET-02

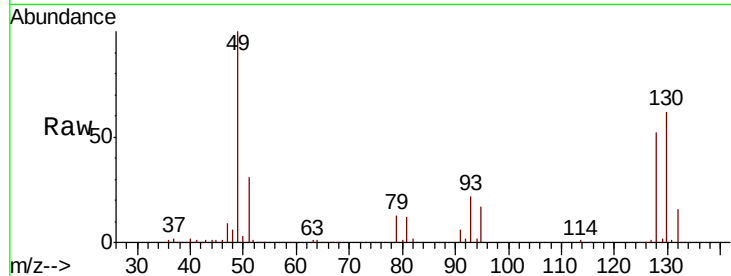
Tot Ion:128 Resp: 28057

Ion Ratio Lower Upper

128 100

49 195.7 0.0 515.0

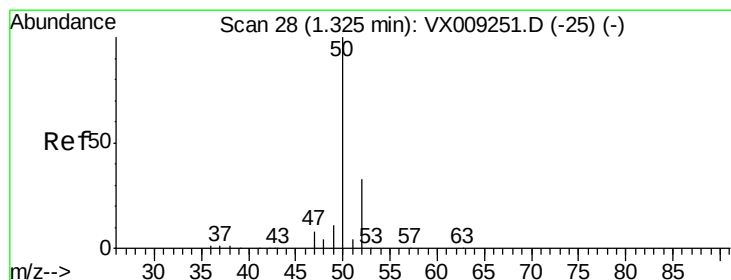
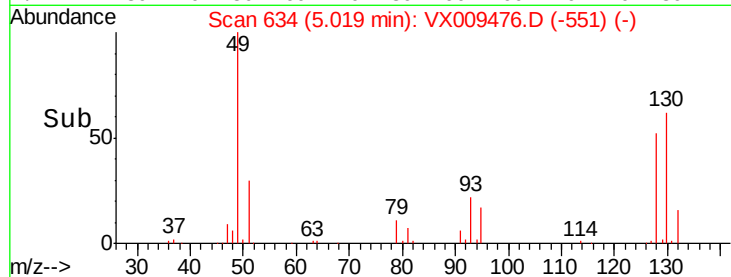
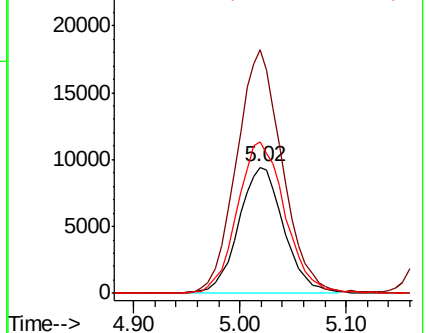
130 126.7 0.0 323.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.963 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX009476.D

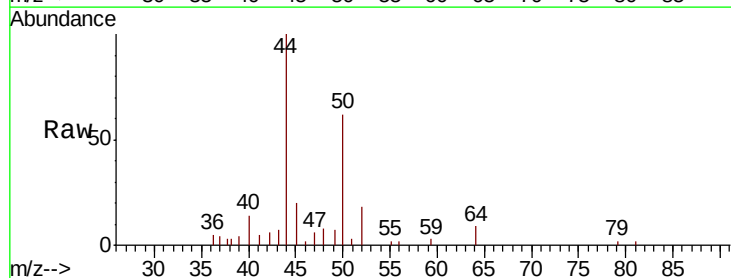
Acq: 10 May 2019 12:27

Tgt Ion: 50 Resp: 1930

Ion Ratio Lower Upper

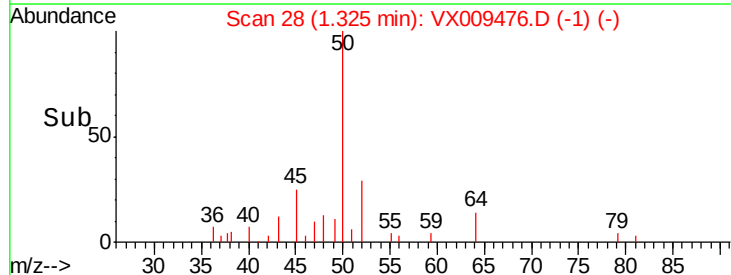
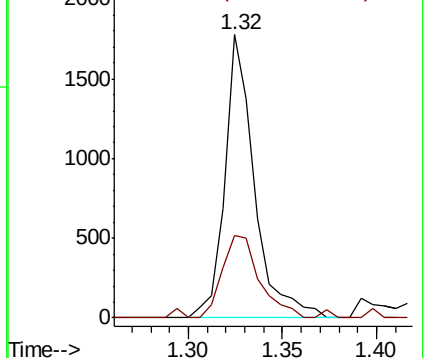
50 100

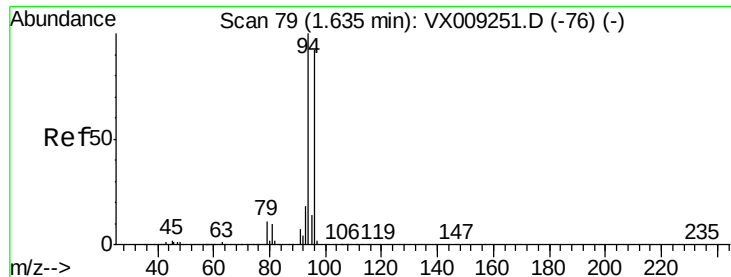
52 29.2 26.3 39.5



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#5

Bromomethane

Concen: 0.300 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX009476.D

Acq: 10 May 2019 12:27

Instrument :

MSVOA_X

ClientSampleId :

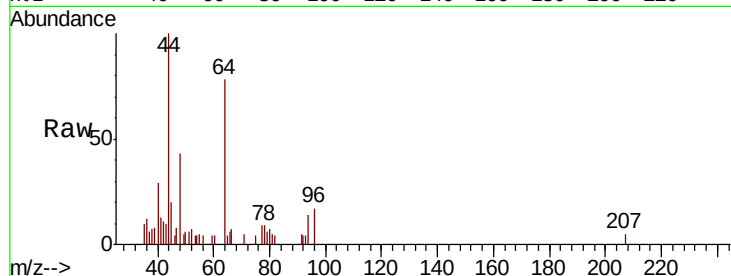
SEWER-OUTLET-02

Tot Ion: 94 Resp: 380

Ion Ratio Lower Upper

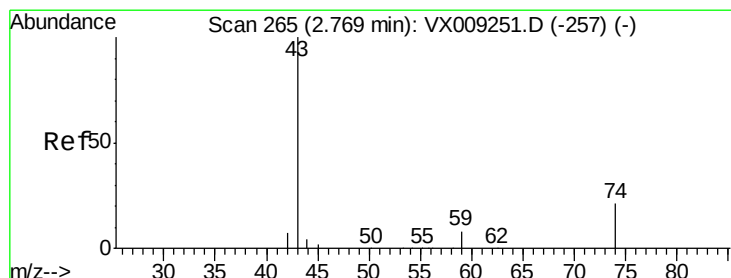
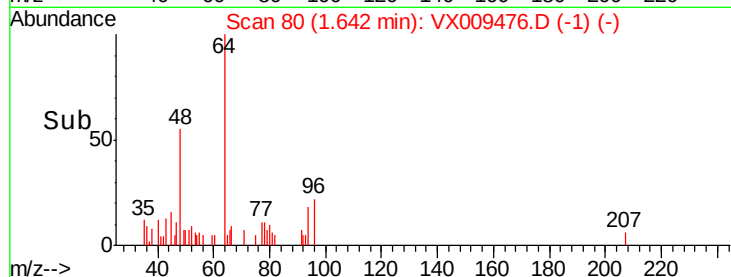
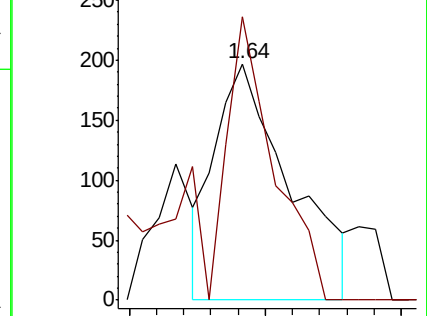
94 100

96 167.4 73.5 110.3#



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0



#12

Methyl Acetate

Concen: 4.487 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX009476.D

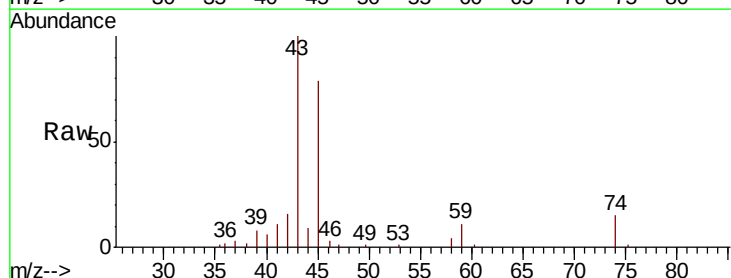
Acq: 10 May 2019 12:27

Tgt Ion: 43 Resp: 12970

Ion Ratio Lower Upper

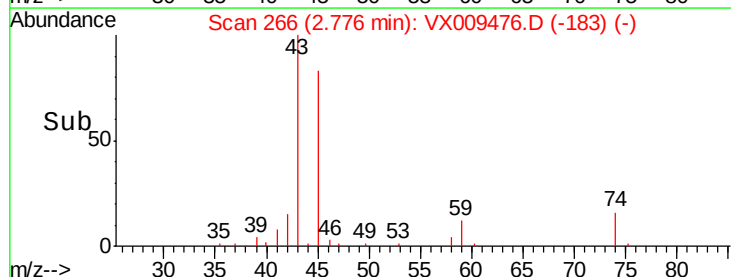
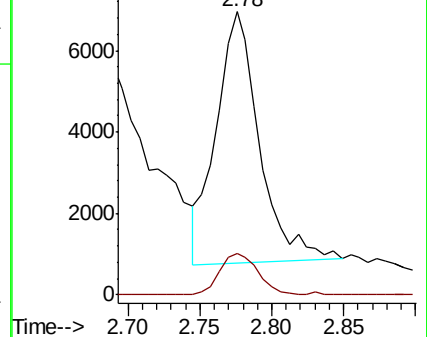
43 100

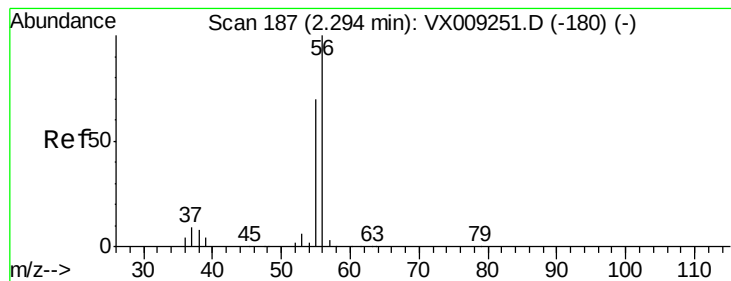
74 18.9 16.5 24.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#13

Acrolein

Concen: 0.224 ug/l

RT: 1.95 min Scan# 130

Delta R.T. -0.35 min

Lab File: VX009476.D

Acq: 10 May 2019 12:27

Instrument :

MSVOA_X

ClientSampleId :

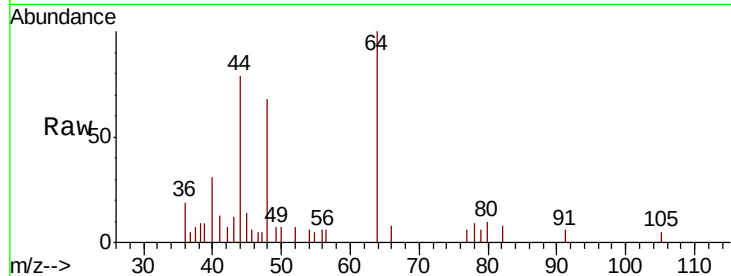
SEWER-OUTLET-02

Tot Ion: 56 Resp: 89

Ion Ratio Lower Upper

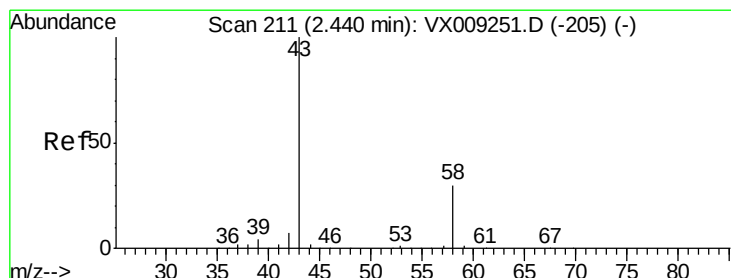
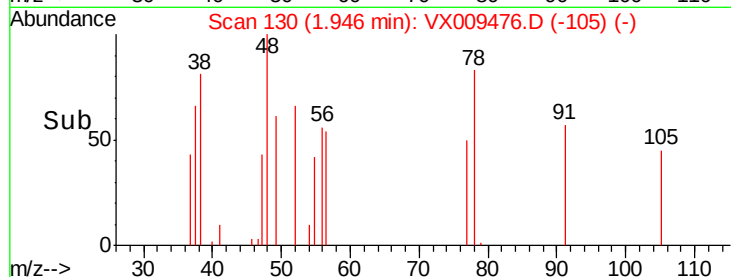
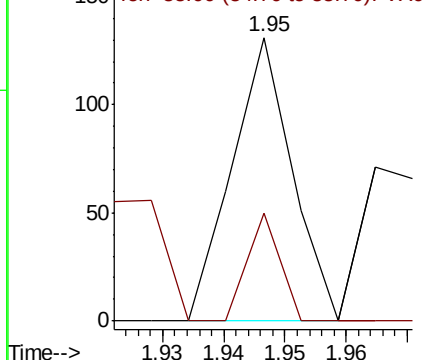
56 100

55 71.9 56.9 85.3



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acetone

Concen: 1052.612 ug/l

RT: 2.44 min Scan# 211

Delta R.T. 0.00 min

Lab File: VX009476.D

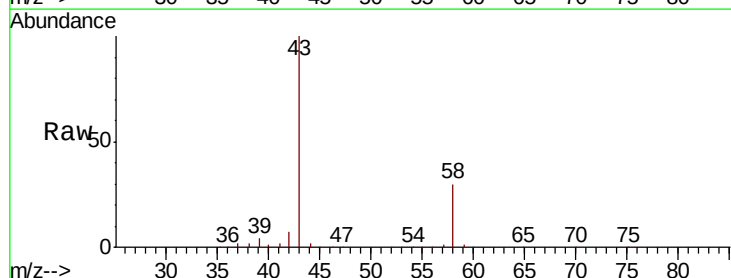
Acq: 10 May 2019 12:27

Tgt Ion: 58 Resp: 379115

Ion Ratio Lower Upper

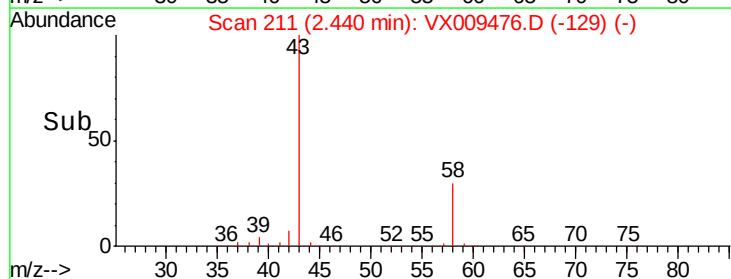
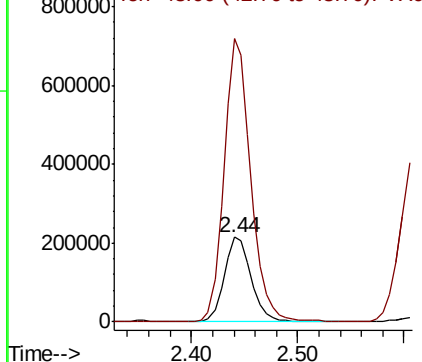
58 100

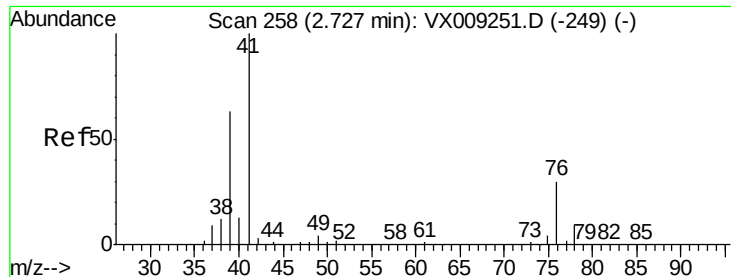
43 335.3 264.0 396.0



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0





#17

Allvl chloride

Concen: 1.116 ug/l

RT: 2.71 min Scan# 256

Delta R.T. -0.01 min

Lab File: VX009476.D

Acq: 10 May 2019 12:27

Instrument :

MSVOA_X

ClientSampleId :

SEWER-OUTLET-02

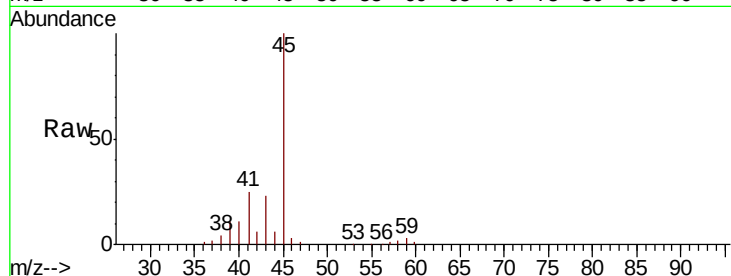
Tot Ion: 41 Resp: 4112

Ion Ratio Lower Upper

41 100

39 32.1 31.6 94.7

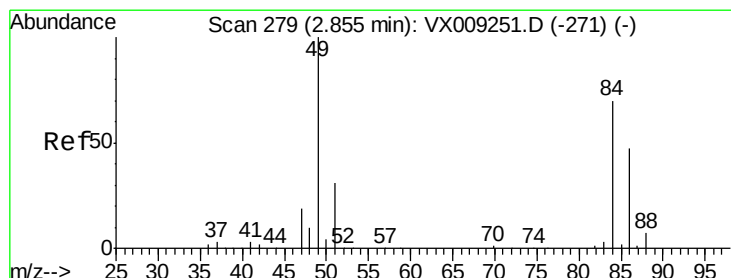
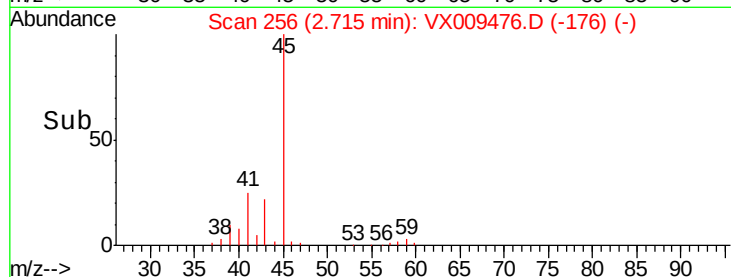
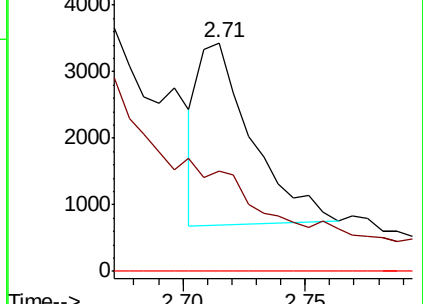
76 0.0 15.1 45.3#



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 76.00 (75.70 to 76.70): VX0



#18

Methylene Chloride

Concen: 0.300 ug/l

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX009476.D

Acq: 10 May 2019 12:27

Tgt Ion: 84 Resp: 556

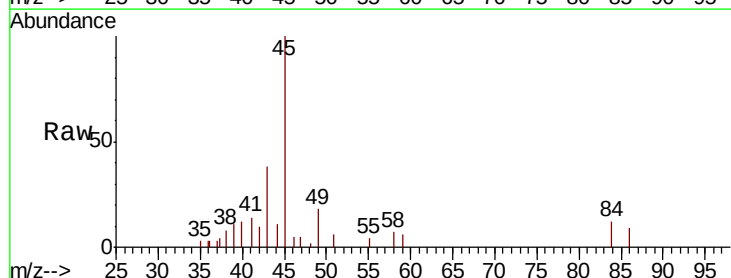
Ion Ratio Lower Upper

84 100

49 140.6 114.6 171.8

51 56.0 35.5 53.3#

86 79.2 53.4 80.2

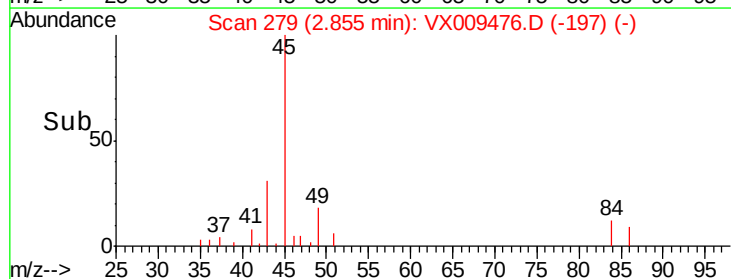
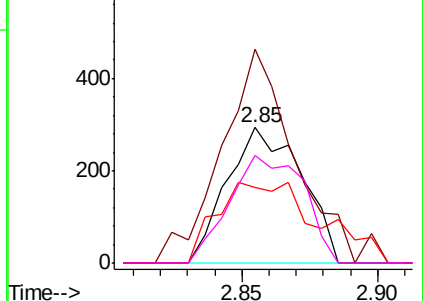


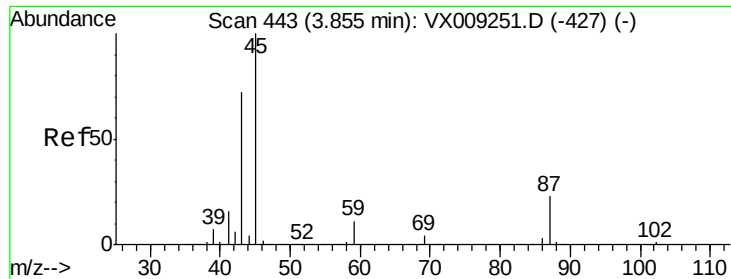
Abundance Ion 84.00 (83.70 to 84.70): VX0

Ion 49.00 (48.70 to 49.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

Ion 86.00 (85.70 to 86.70): VX0

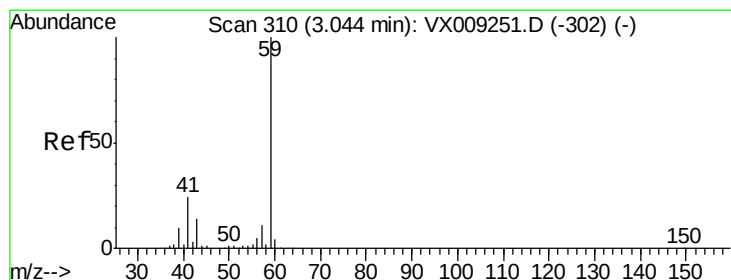
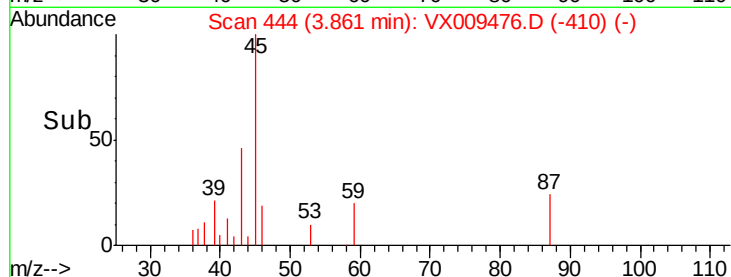
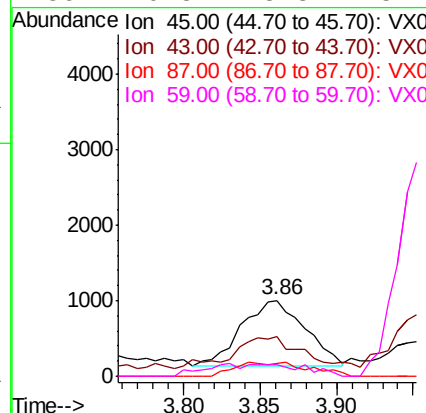
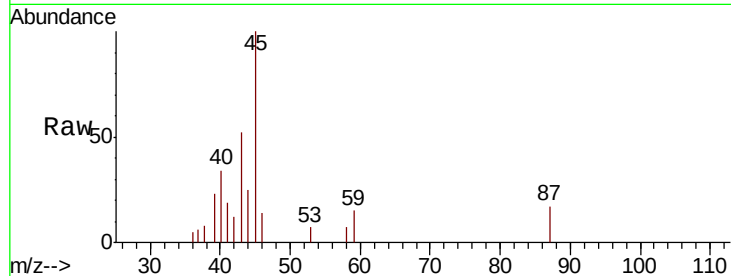




#20
Diisopropyl ether
Concen: 0.347 ug/l
RT: 3.86 min Scan# 444
Delta R.T. 0.01 min
Lab File: VX009476.D
Acq: 10 May 2019 12:27

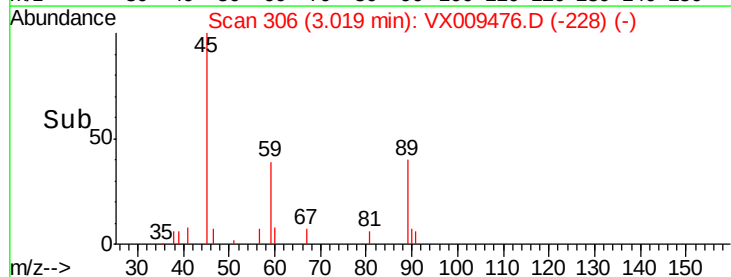
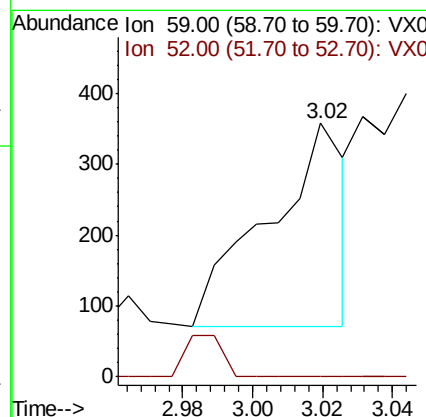
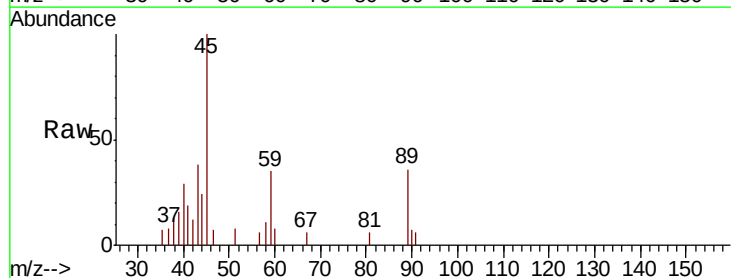
Instrument :
MSVOA_X
ClientSampleId :
SEWER-OUTLET-02

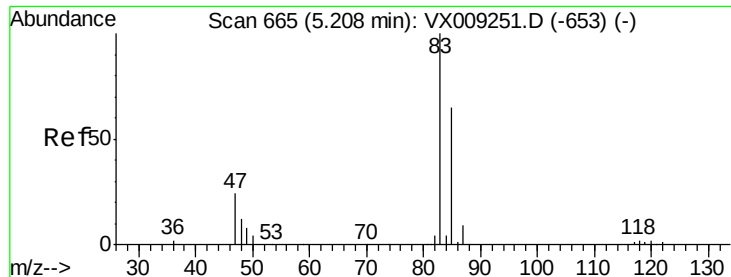
Tot Ion:	45	Resp:	2515
Ion	Ratio	Lower	Upper
45	100		
43	38.3	57.7	86.5#
87	19.9	18.5	27.7
59	16.8	8.8	13.2#



#23
tert-Butyl Alcohol
Concen: 0.830 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.02 min
Lab File: VX009476.D
Acq: 10 May 2019 12:27

Tgt Ion:	59	Resp:	440
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.2	0.2#

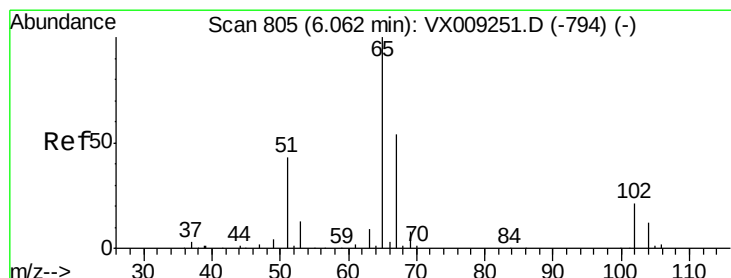
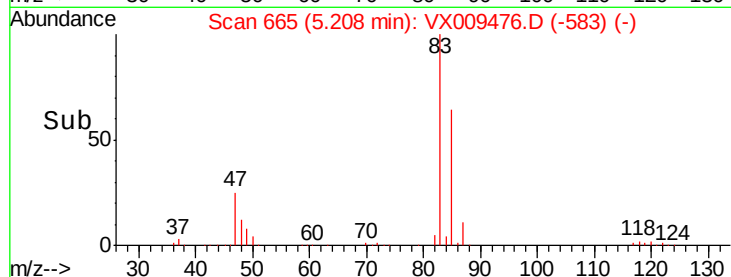
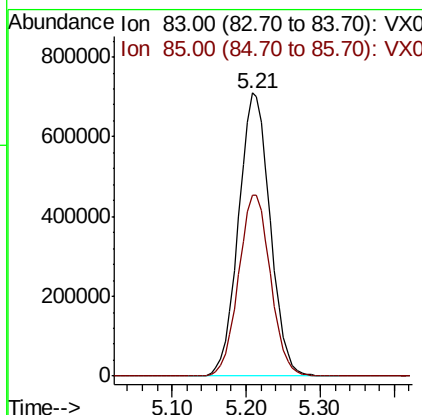
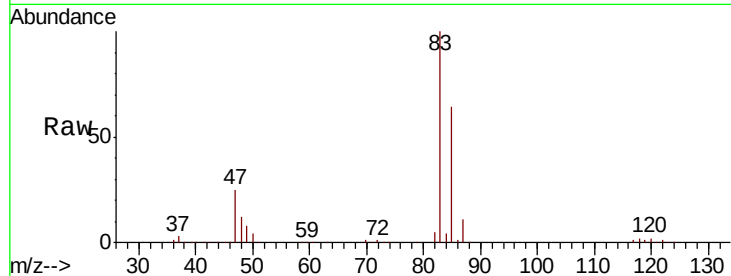




#25
Chloroform
Concen: 658.944 ug/l
RT: 5.21 min Scan# 665
Delta R.T. 0.00 min
Lab File: VX009476.D
Acq: 10 May 2019 12:27

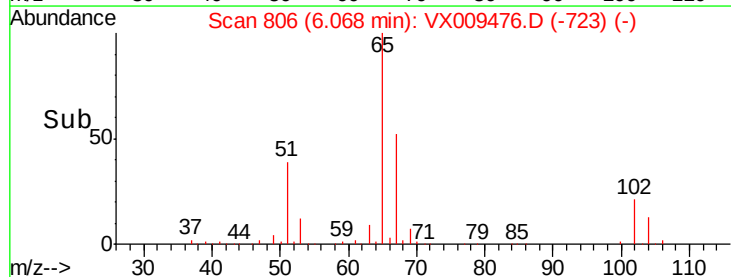
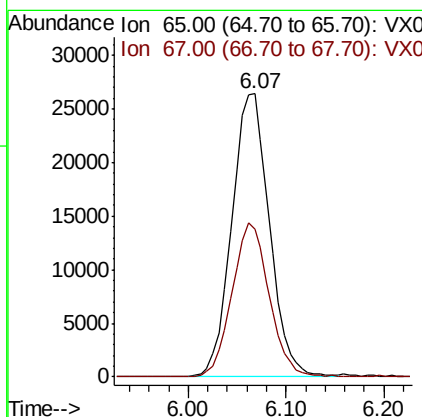
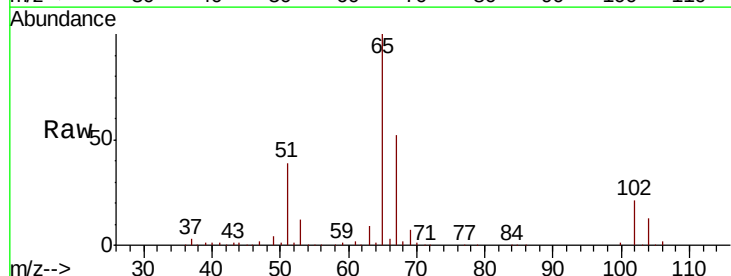
Instrument :
MSVOA_X
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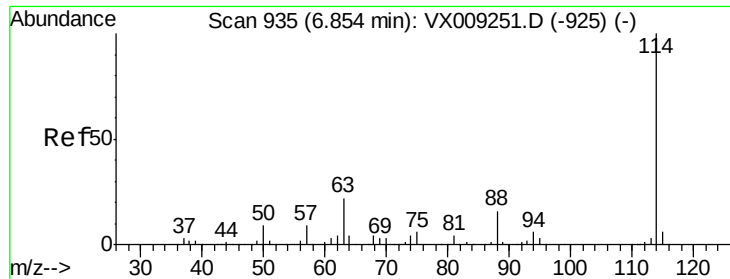
Tot Ion: 83 Resp: 2111374
Ion Ratio Lower Upper
83 100
85 64.1 51.9 77.9



#27
1,2-Dichloroethane-d4
Concen: 30.318 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.01 min
Lab File: VX009476.D
Acq: 10 May 2019 12:27

Tgt Ion: 65 Resp: 70564
Ion Ratio Lower Upper
65 100
67 53.4 43.1 64.7

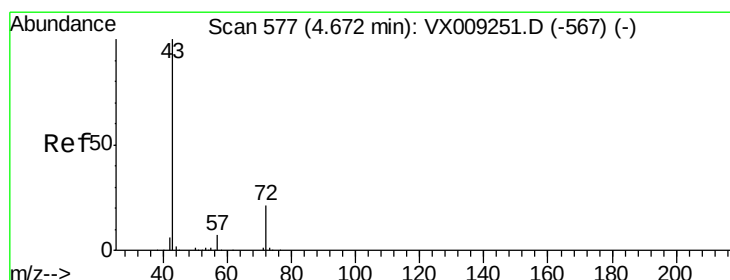
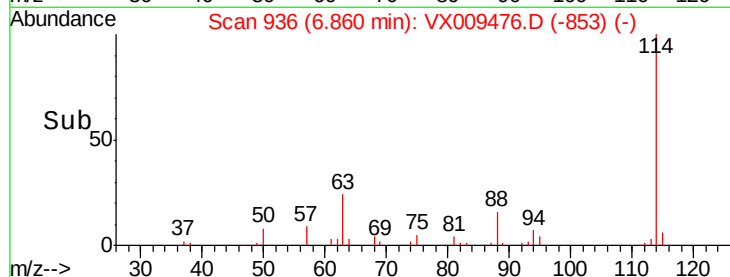
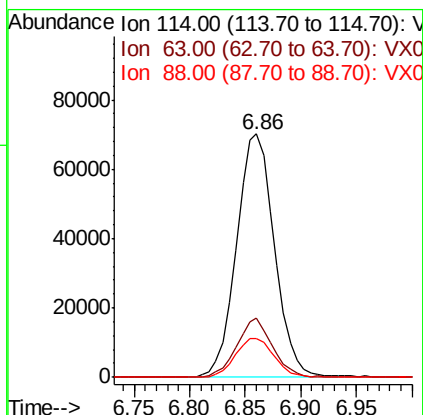
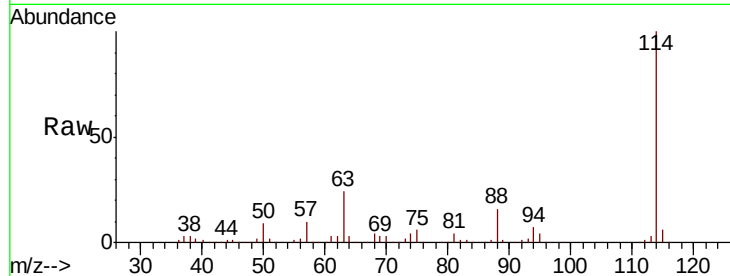




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.01 min
 Lab File: VX009476.D
 Acq: 10 May 2019 12:27

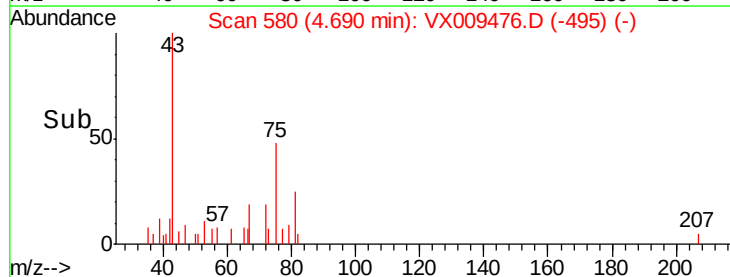
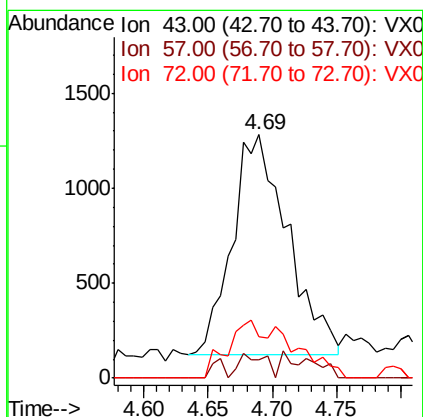
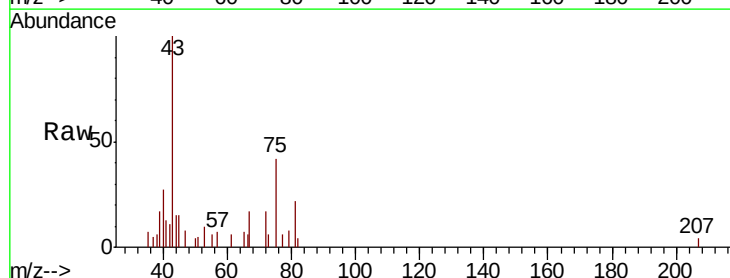
Instrument :
 MSVOA_X
 ClientSampleId :
 SEWER-OUTLET-02

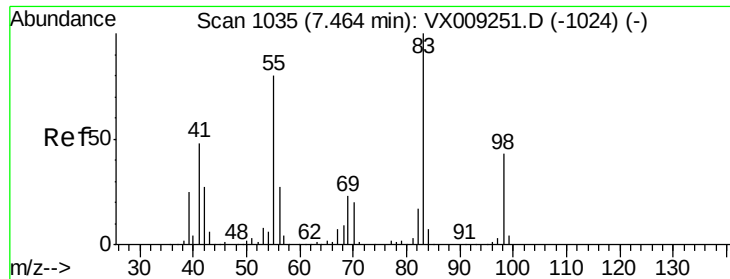
Tot Ion:114 Resp: 165562
 Ion Ratio Lower Upper
 114 100
 63 22.7 18.0 27.0
 88 16.3 13.4 20.0



#30
 2-Butanone
 Concen: 1.823 ug/l
 RT: 4.69 min Scan# 580
 Delta R.T. 0.02 min
 Lab File: VX009476.D
 Acq: 10 May 2019 12:27

Tgt Ion: 43 Resp: 3469
 Ion Ratio Lower Upper
 43 100
 57 1.3 6.0 9.0#
 72 13.3 18.2 27.4#

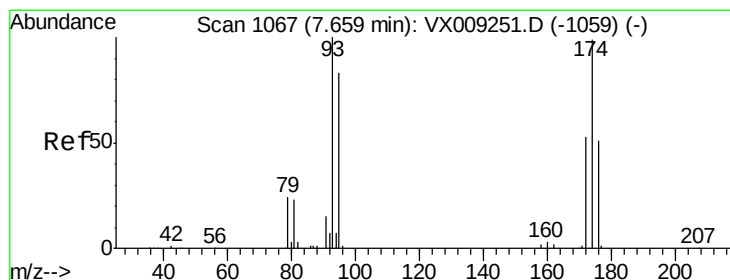
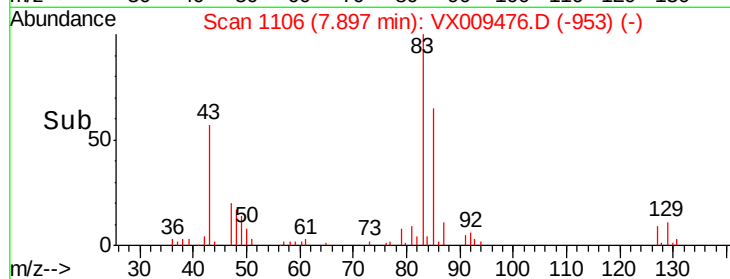
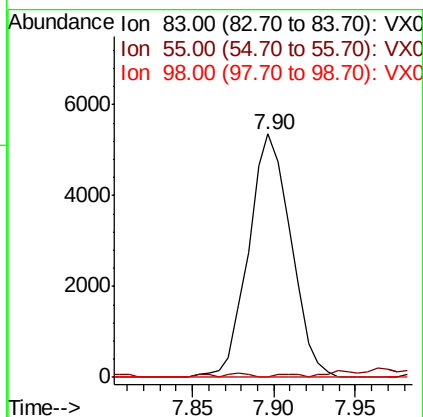
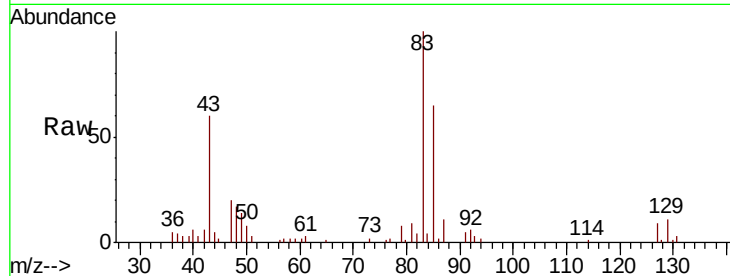




#38
Methylvlcyclohexane
Concen: 3.218 ug/l
RT: 7.90 min Scan# 1106
Delta R.T. 0.43 min
Lab File: VX009476.D
Acq: 10 May 2019 12:27

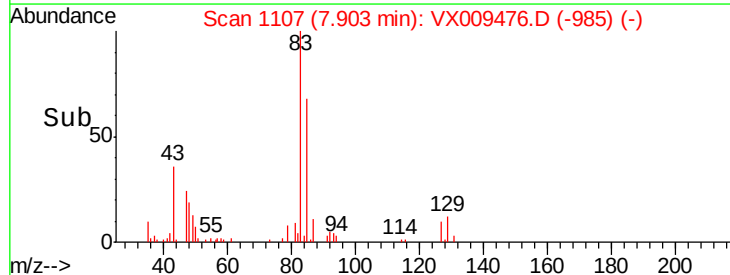
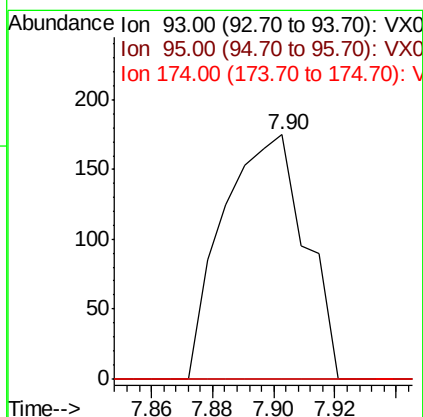
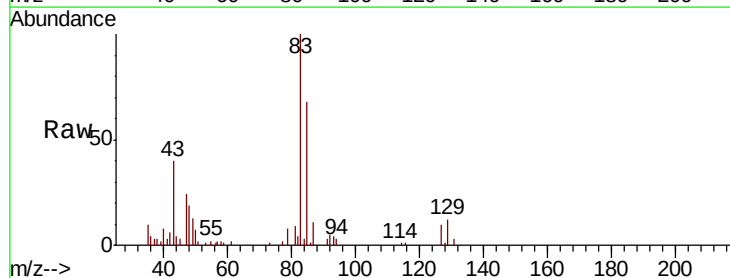
Instrument :
MSVOA_X
ClientSampleId :
SEWER-OUTLET-02

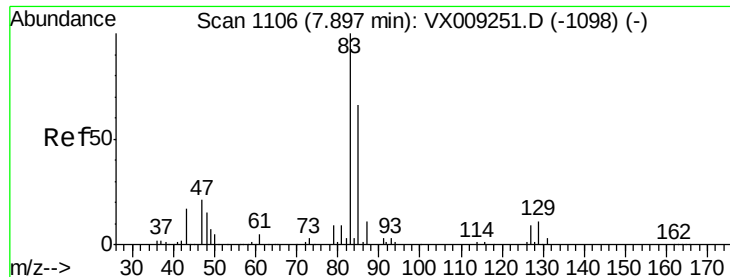
Tot Ion: 83 Resp: 9660
Ion Ratio Lower Upper
83 100
55 0.8 43.0 129.2#
98 0.0 22.1 66.1#



#40
Dibromomethane
Concen: 0.268 ug/l
RT: 7.90 min Scan# 1107
Delta R.T. 0.24 min
Lab File: VX009476.D
Acq: 10 May 2019 12:27

Tgt Ion: 93 Resp: 325
Ion Ratio Lower Upper
93 100
95 0.0 0.0 167.2
174 0.0 0.0 203.4





#41

Bromodichloromethane

Concen: 3.907 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. 0.00 min

Lab File: VX009476.D

Acq: 10 May 2019 12:27

Instrument :

MSVOA_X

ClientSampleId :

SEWER-OUTLET-02

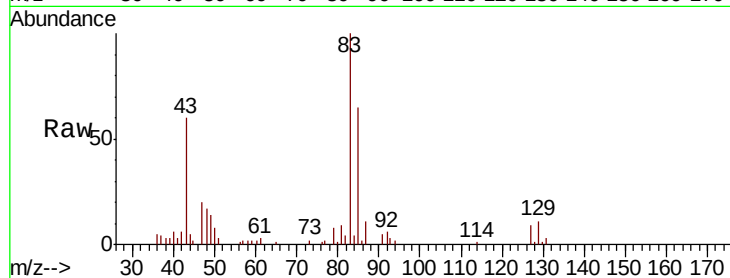
Tot Ion: 83 Resp: 9660

Ion Ratio Lower Upper

83 100

85 65.2 52.6 79.0

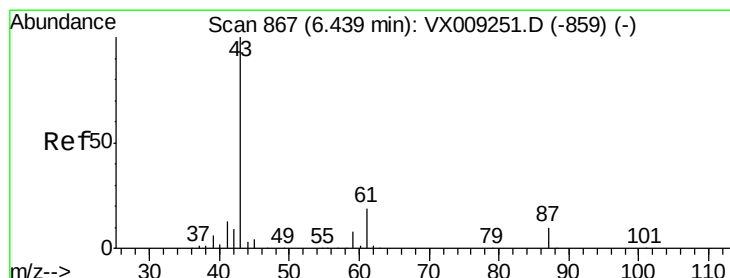
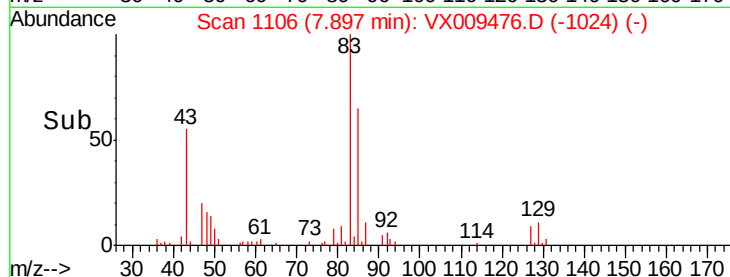
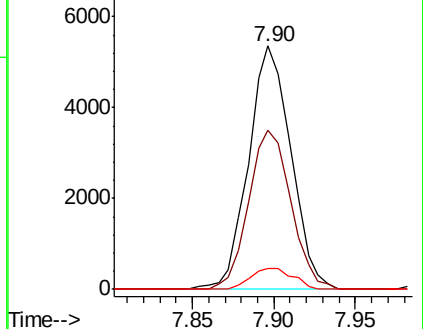
127 8.8 6.9 10.3



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0

Ion 127.00 (126.70 to 127.70): V



#44

Isopropyl Acetate

Concen: 995.793 ug/l

RT: 6.45 min Scan# 868

Delta R.T. 0.01 min

Lab File: VX009476.D

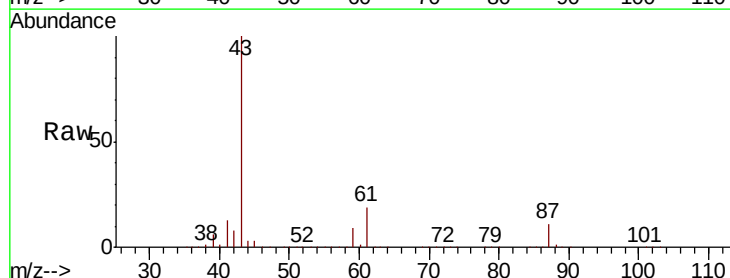
Acq: 10 May 2019 12:27

Tgt Ion: 43 Resp: 5545854

Ion Ratio Lower Upper

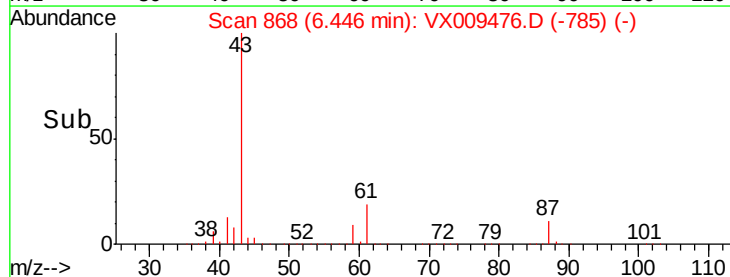
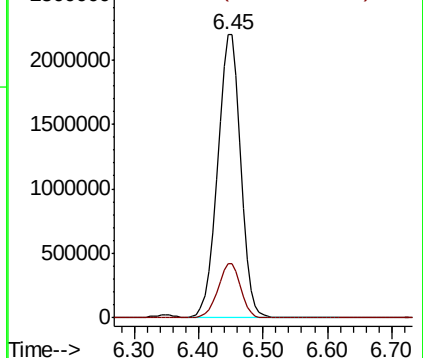
43 100

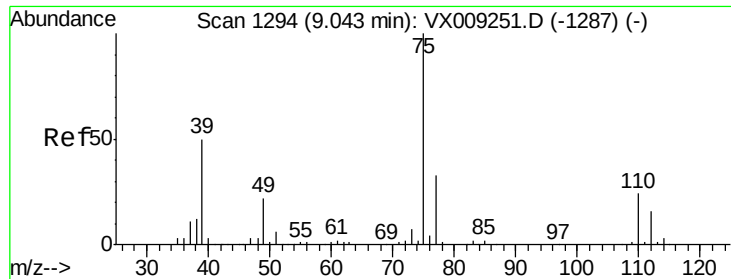
61 19.0 15.4 23.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

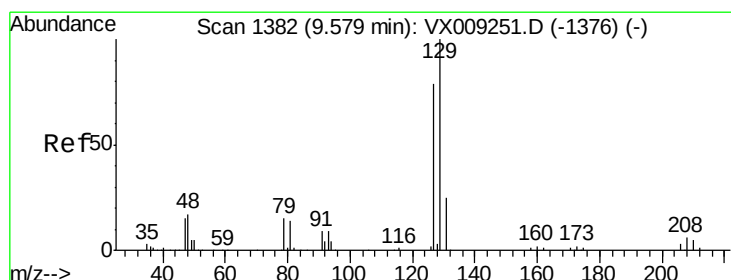
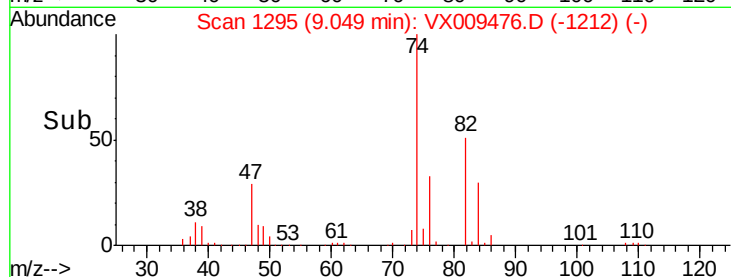
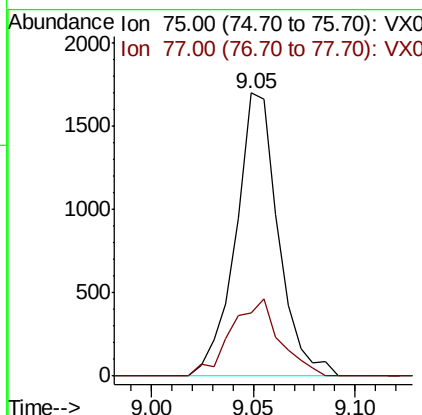
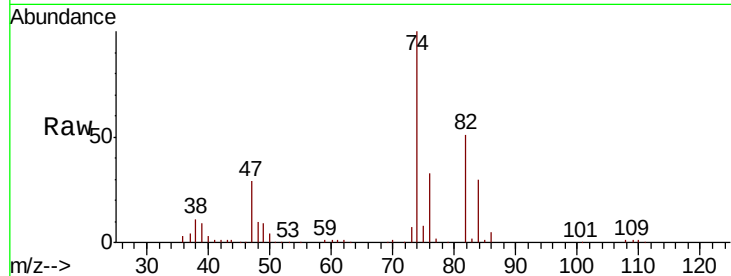




#48
t-1,3-Dichloropropene
Concen: 0.857 ug/l
RT: 9.05 min Scan# 1295
Delta R.T. 0.01 min
Lab File: VX009476.D
Acq: 10 May 2019 12:27

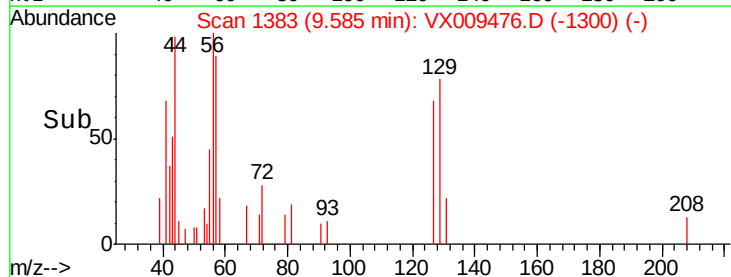
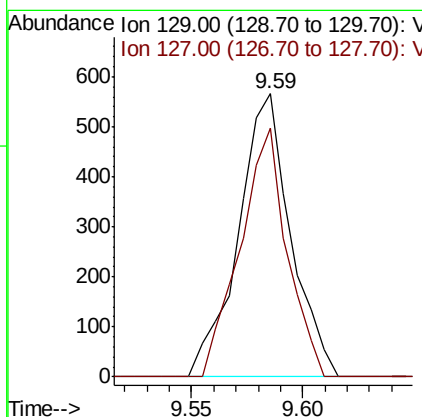
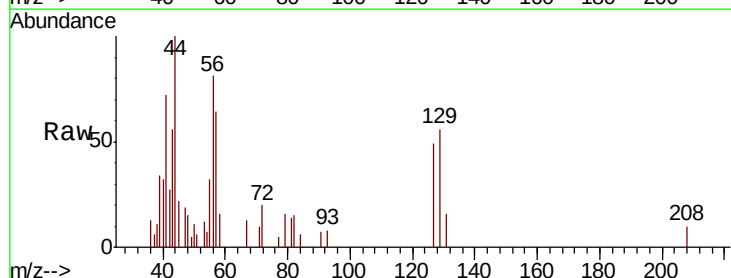
Instrument :
MSVOA_X
ClientSampleId :
SEWER-OUTLET-02

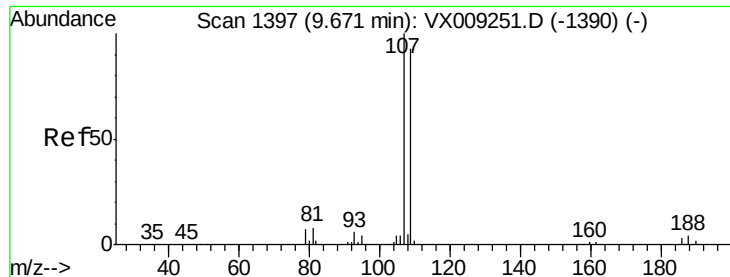
Tot Ion: 75 Resp: 2473
Ion Ratio Lower Upper
75 100
77 22.5 26.5 39.7#



#53
Dibromochloromethane
Concen: 0.504 ug/l
RT: 9.59 min Scan# 1383
Delta R.T. 0.01 min
Lab File: VX009476.D
Acq: 10 May 2019 12:27

Tgt Ion: 129 Resp: 930
Ion Ratio Lower Upper
129 100
127 78.4 39.1 117.5





#54

1,2-Dibromoethane

Concen: 1.666 ug/l

RT: 9.91 min Scan# 1437

Delta R.T. 0.24 min

Lab File: VX009476.D

Acq: 10 May 2019 12:27

Instrument :

MSVOA_X

ClientSampleId :

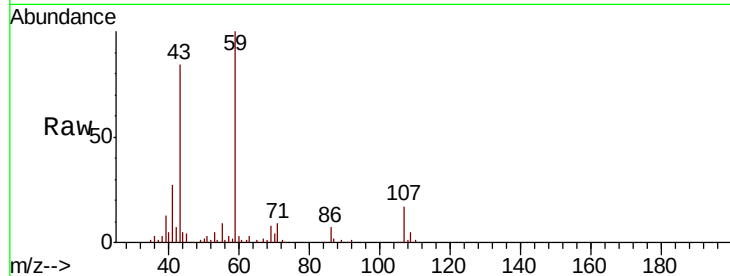
SEWER-OUTLET-02

Tot Ion:107 Resp: 3168

Ion Ratio Lower Upper

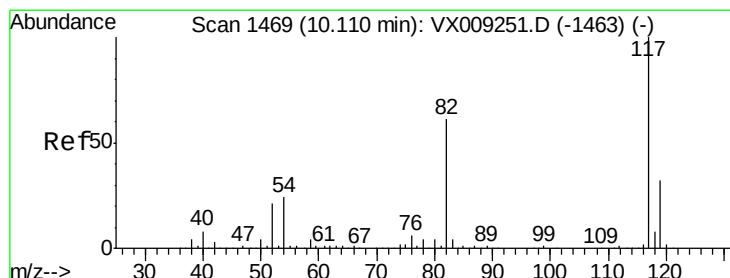
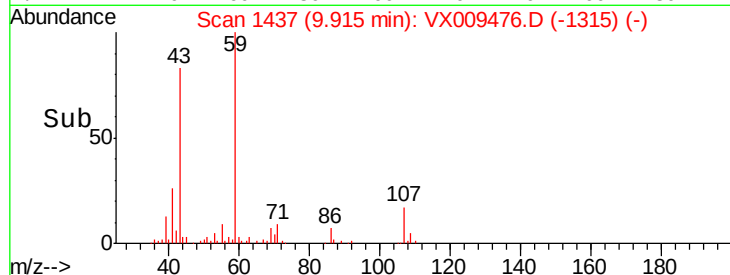
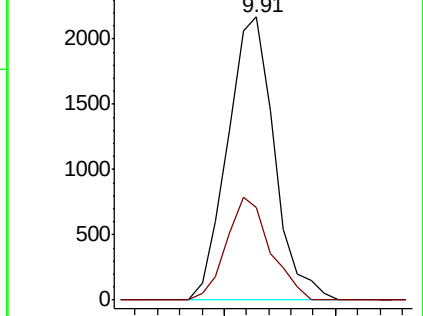
107 100

109 34.2 75.5 113.3#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009476.D

Acq: 10 May 2019 12:27

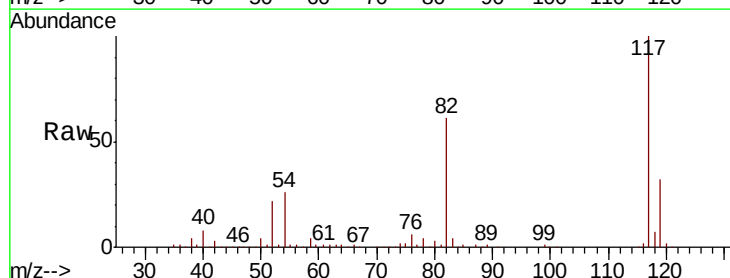
Tgt Ion:117 Resp: 143855

Ion Ratio Lower Upper

117 100

82 59.1 47.8 71.8

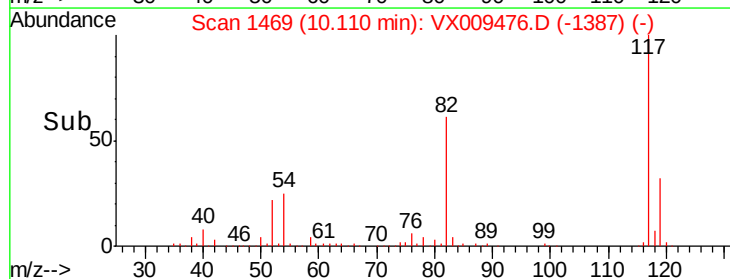
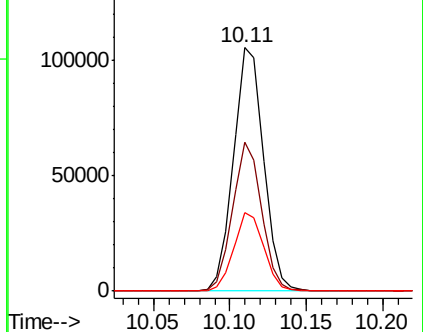
119 32.1 25.6 38.4

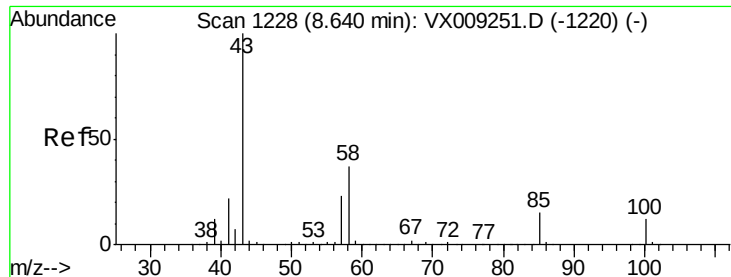


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V

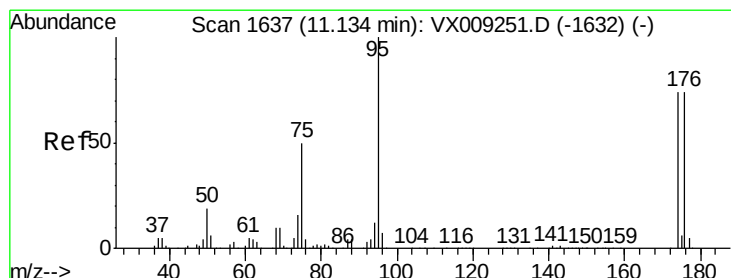
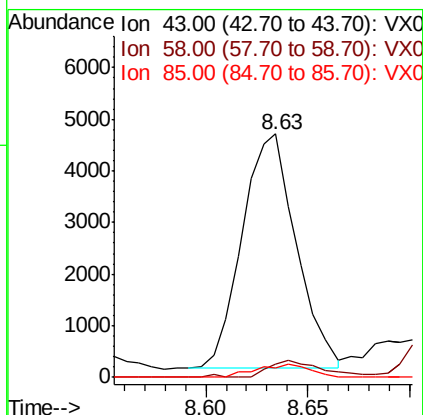
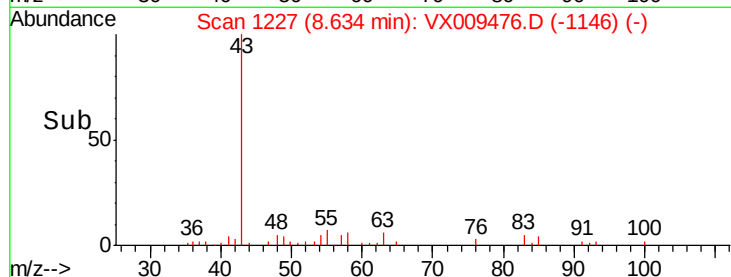
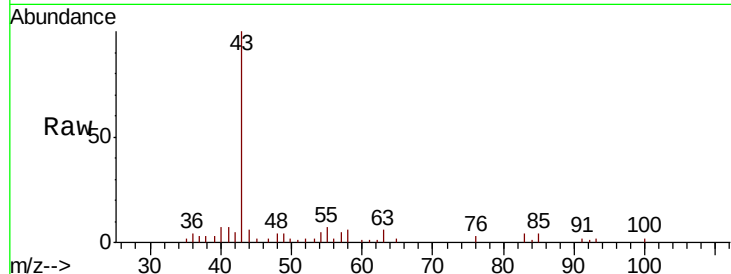




#58
 4-Methyl-2-Pentanone
 Concen: 2.348 ug/l
 RT: 8.63 min Scan# 1227
 Delta R.T. -0.01 min
 Lab File: VX009476.D
 Acq: 10 May 2019 12:27

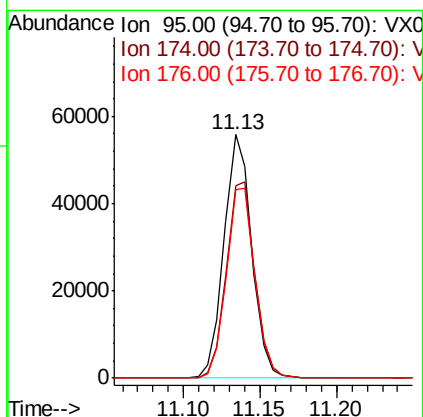
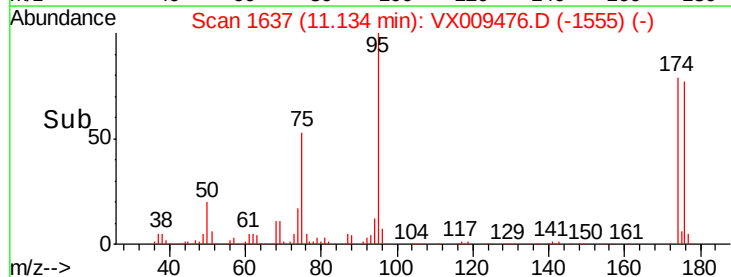
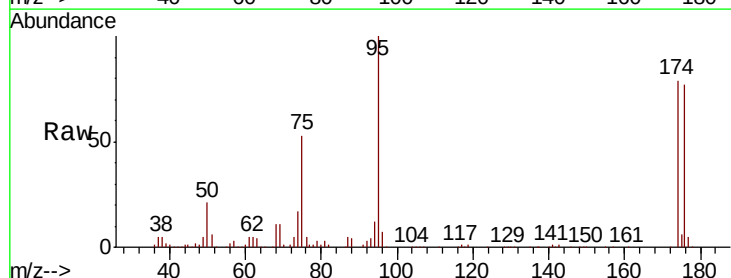
Instrument :
 MSVOA_X
 ClientSampleId :
 SEWER-OUTLET-02

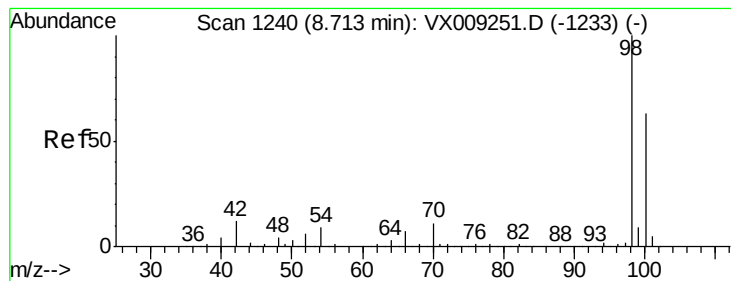
Tot Ion: 43 Resp: 8306
 Ion Ratio Lower Upper
 43 100
 58 7.5 29.4 44.0#
 85 5.7 11.8 17.8#



#60
 4-Bromofluorobenzene
 Concen: 28.577 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VX009476.D
 Acq: 10 May 2019 12:27

Tgt Ion: 95 Resp: 69855
 Ion Ratio Lower Upper
 95 100
 174 83.4 63.6 95.4
 176 80.7 62.4 93.6





#63

Toluene-d8

Concen: 29.856 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009476.D

Acq: 10 May 2019 12:27

Instrument :

MSVOA_X

ClientSampleId :

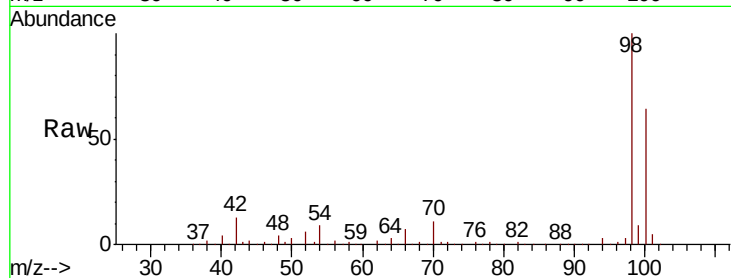
SEWER-OUTLET-02

Tot Ion: 98 Resp: 203624

Ion Ratio Lower Upper

98 100

100 63.4 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VX009476.D (-1158) (-)

Ion 100.00 (99.70 to 100.70): VX009476.D (-1158) (-)

8.71

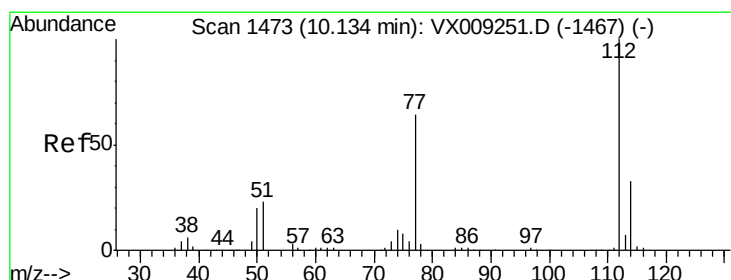
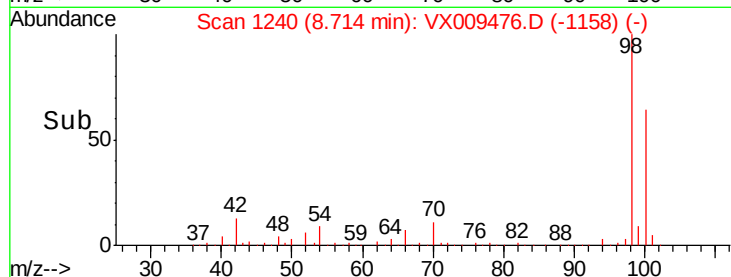
150000

100000

50000

0

Time-->



#64

Chlorobenzene

Concen: 0.436 ug/l

RT: 10.13 min Scan# 1473

Delta R.T. 0.00 min

Lab File: VX009476.D

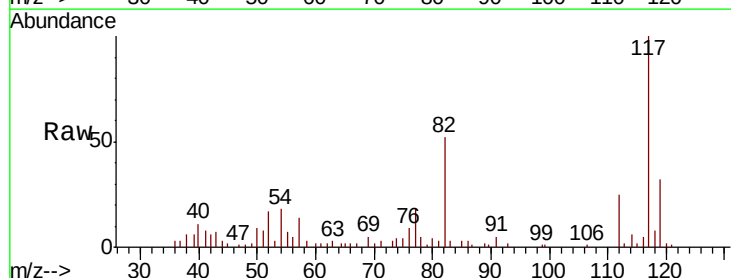
Acq: 10 May 2019 12:27

Tgt Ion: 112 Resp: 2018

Ion Ratio Lower Upper

112 100

114 25.2 26.2 39.2#



Abundance Ion 112.00 (111.70 to 112.70): VX009476.D (-1391) (-)

Ion 114.00 (113.70 to 114.70): VX009476.D (-1391) (-)

10.13

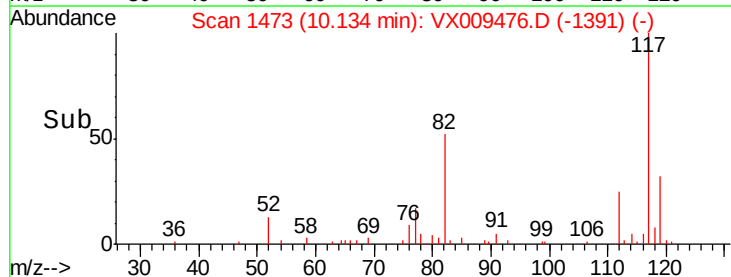
1500

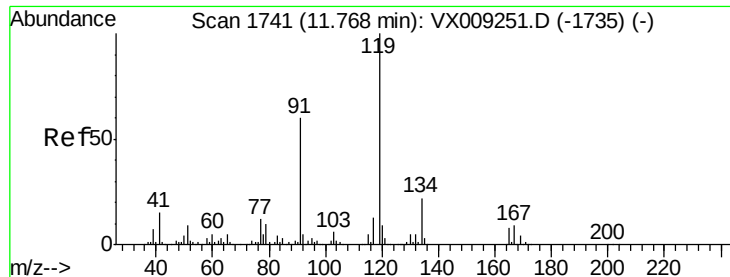
1000

500

0

Time-->





#79

tert-butylbenzene

Concen: 0.625 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. 0.29 min

Lab File: VX009476.D

Acq: 10 May 2019 12:27

Instrument :

MSVOA_X

ClientSampleId :

SEWER-OUTLET-02

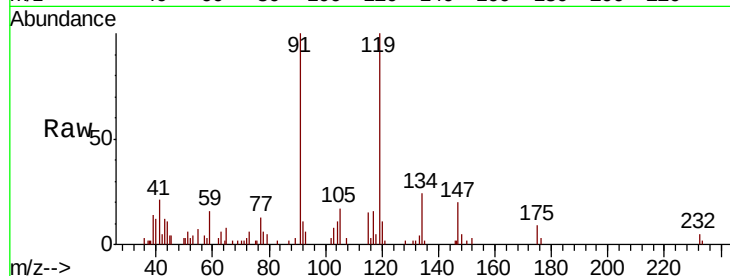
Tot Ion:119 Resp: 4234

Ion Ratio Lower Upper

119 100

91 91.8 0.0 118.2

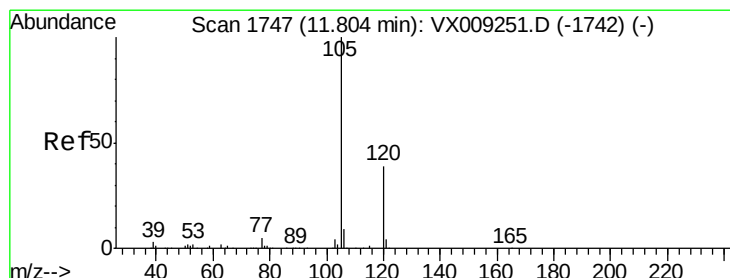
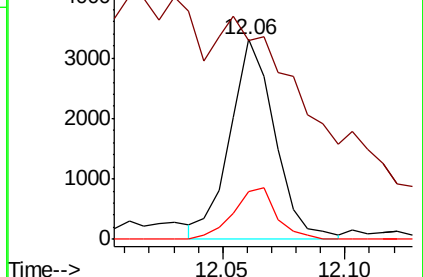
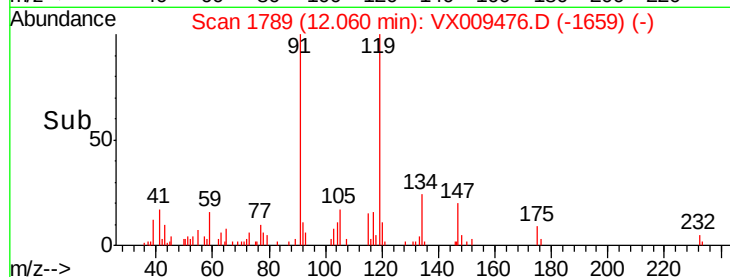
134 24.9 0.0 45.0



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VX0

Ion 134.00 (133.70 to 134.70): V



#80

1,2,4-Trimethylbenzene

Concen: 2.546 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX009476.D

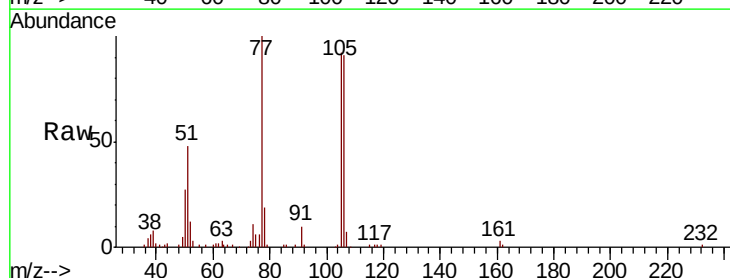
Acq: 10 May 2019 12:27

Tgt Ion:105 Resp: 17874

Ion Ratio Lower Upper

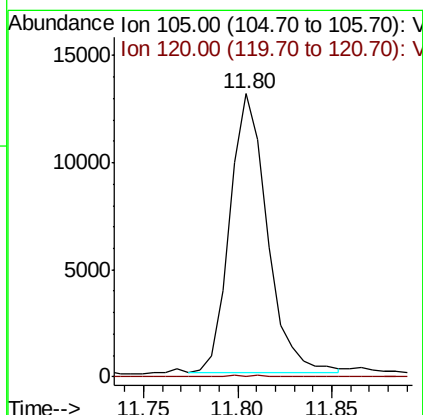
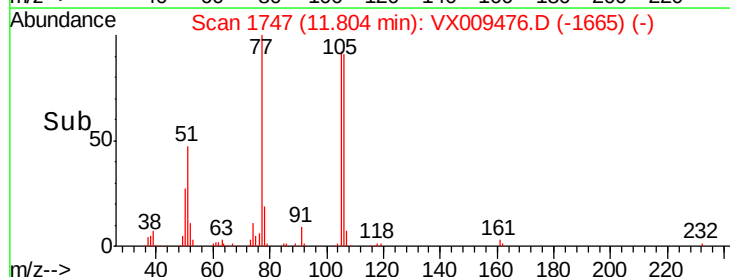
105 100

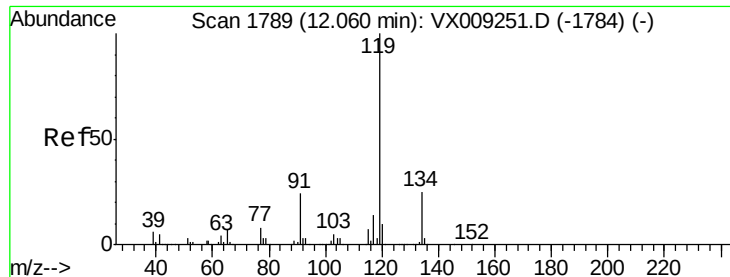
120 0.1 0.0 89.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

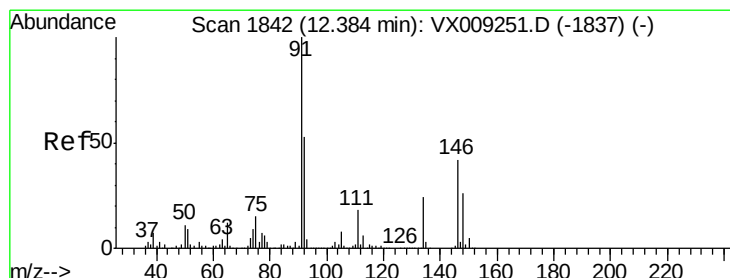
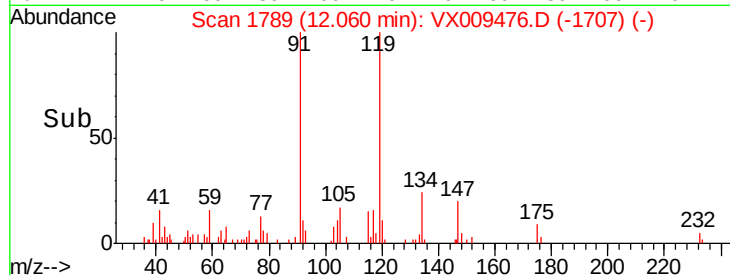
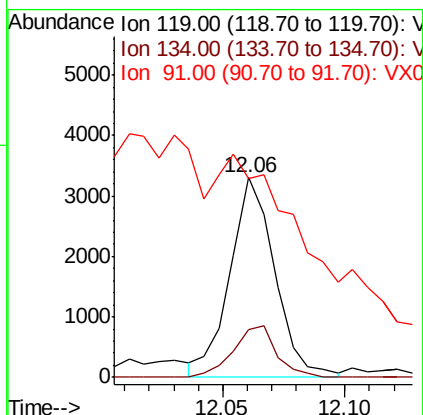
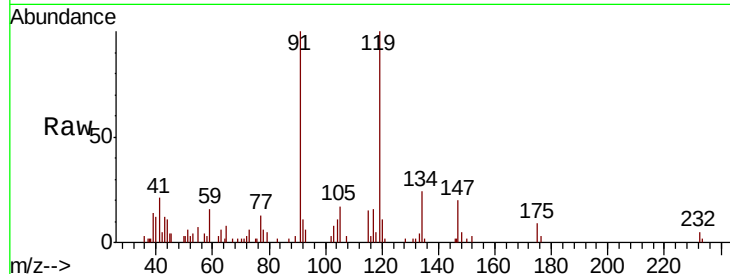




#82
p-Isopropyltoluene
Concen: 0.579 ug/l
RT: 12.06 min Scan# 1789
Delta R.T. 0.00 min
Lab File: VX009476.D
Acq: 10 May 2019 12:27

Instrument :
MSVOA_X
ClientSampleId :
SEWER-OUTLET-02

Tot Ion:119 Resp: 4234
Ion Ratio Lower Upper
119 100
134 24.9 0.0 50.8
91 91.8 0.0 47.2#



#85
n-Butylbenzene
Concen: 1.927 ug/l
RT: 12.62 min Scan# 1880
Delta R.T. 0.23 min
Lab File: VX009476.D
Acq: 10 May 2019 12:27

Tgt Ion: 91 Resp: 12904
Ion Ratio Lower Upper
91 100
92 1.7 0.0 106.6
134 1.7 0.0 50.0

