

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022119\
 Data File : VN053881.D
 Acq On : 21 Feb 2019 10:08
 Operator : JC/SP
 Sample : K1548-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OUTFALL001-190219

Quant Time: Feb 22 00:33:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022019W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 21 03:36:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	630522	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1034324	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1095083	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	421419	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	332741	51.64	ug/l	0.00
Spiked Amount			Recovery	=	103.28%	
35) Dibromofluoromethane	7.59	113	331357	48.81	ug/l	0.00
Spiked Amount			Recovery	=	97.62%	
50) Toluene-d8	10.09	98	1271764	51.87	ug/l	0.00
Spiked Amount			Recovery	=	103.74%	
62) 4-Bromofluorobenzene	12.40	95	450762	55.69	ug/l	0.00
Spiked Amount			Recovery	=	111.38%	

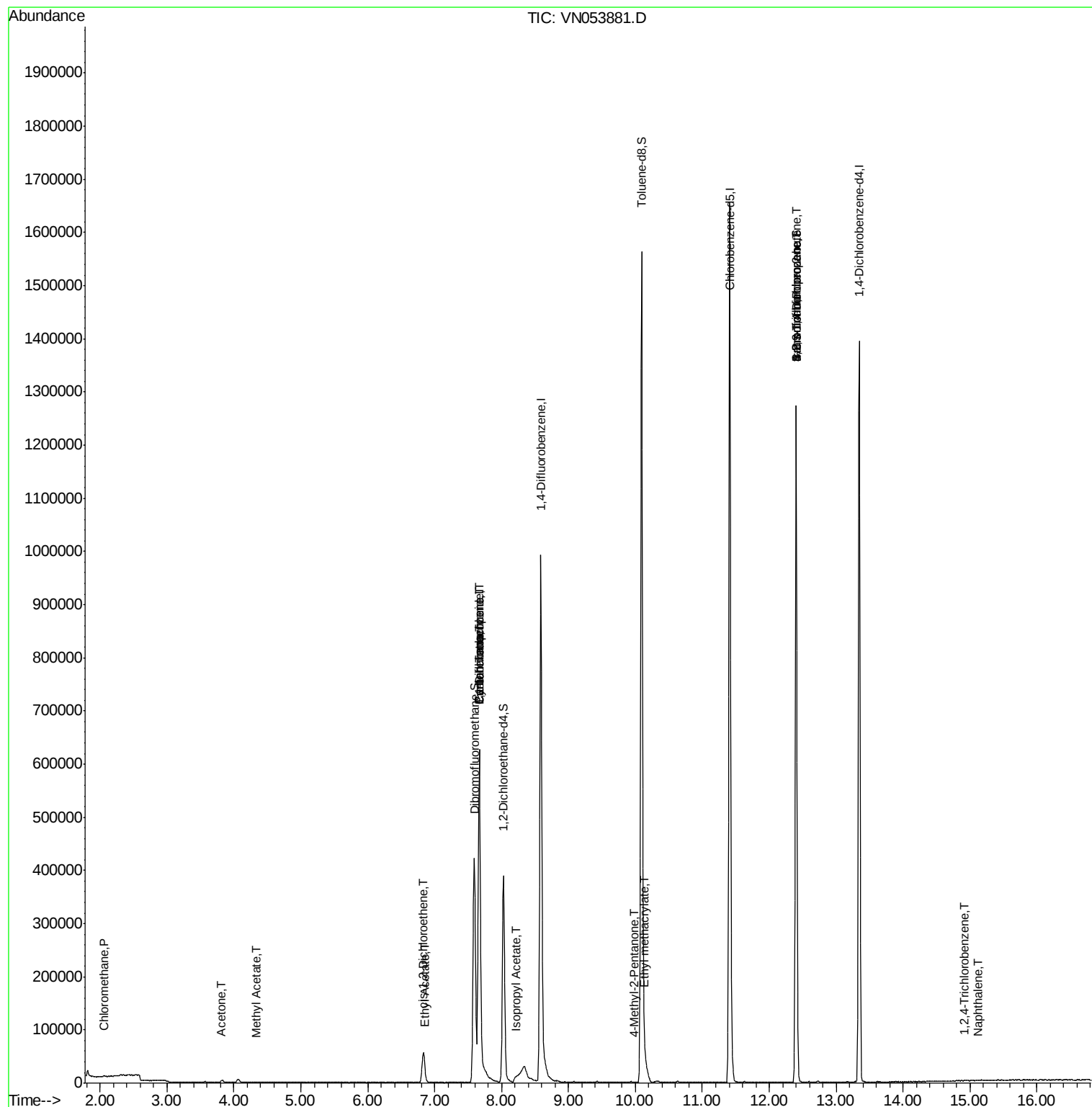
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	3534	0.519	ug/l	99
16) Acetone	3.82	43	8152	4.600	ug/l #	86
18) Methyl Acetate	4.33	43	1034	0.247	ug/l #	49
27) cis-1,2-Dichloroethene	6.83	96	40971	5.955	ug/l	91
31) Cyclohexane	7.67	56	9393	0.383	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	35609	3.756	ug/l #	48
37) Ethyl Acetate	6.87	43	62	0.230	ug/l #	67
38) Carbon Tetrachloride	7.67	117	49300	5.206	ug/l #	17
43) Isopropyl Acetate	8.21	43	7462	0.738	ug/l #	58
51) 4-Methyl-2-Pentanone	9.99	43	238	6.566	ug/l #	34
56) Ethyl methacrylate	10.14	69	63	2.474	ug/l #	50
71) Bromoform	12.41	173	3308	0.557	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	206345	33.354	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	206345	110.112	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.92	180	274	2.958	ug/l #	45
95) Naphthalene	15.13	128	515	4.640	ug/l #	70

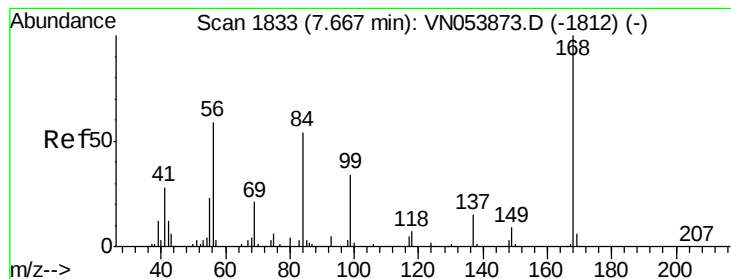
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN053881.D

Acq: 21 Feb 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

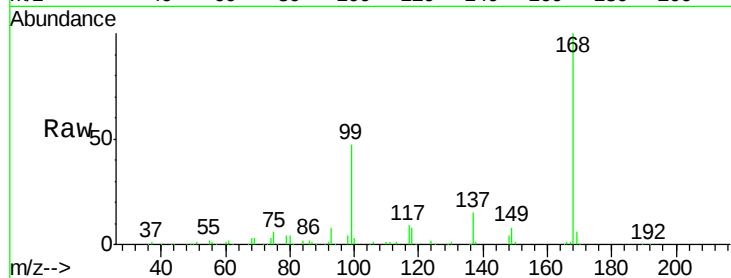
OUTFALL001-190219

Tot Ion:168 Resp: 630522

Ion Ratio Lower Upper

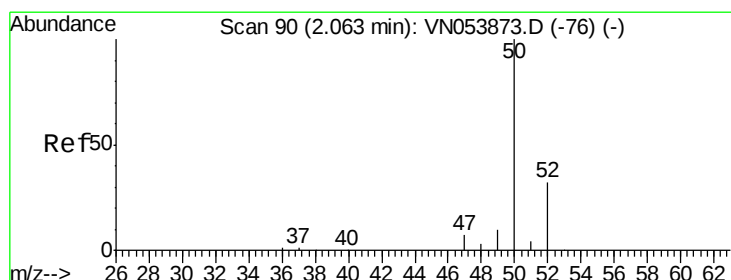
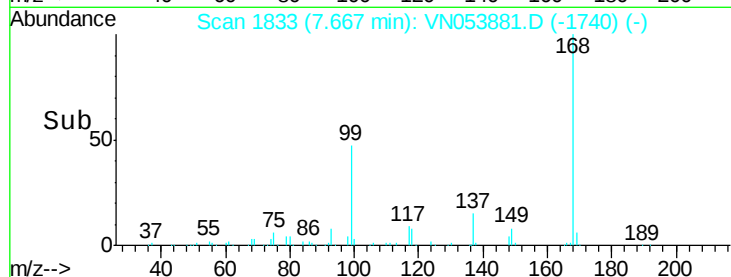
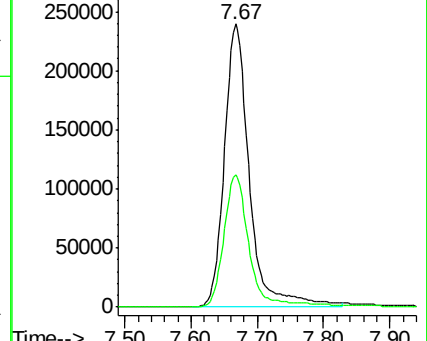
168 100

99 46.6 36.9 55.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: 0.519 ug/l

RT: 2.06 min Scan# 90

Delta R.T. -0.00 min

Lab File: VN053881.D

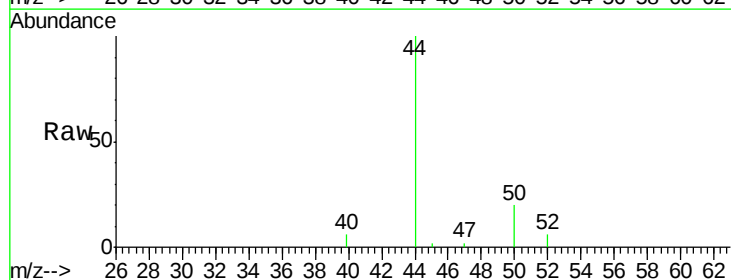
Acq: 21 Feb 2019 10:08

Tgt Ion: 50 Resp: 3534

Ion Ratio Lower Upper

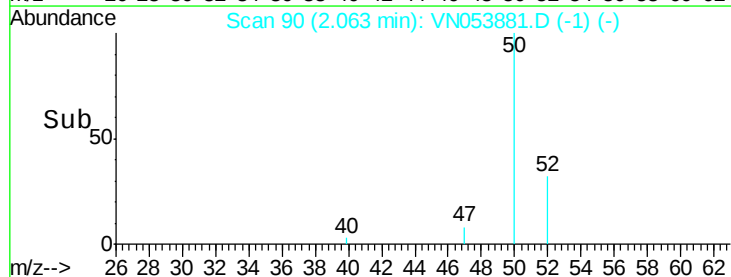
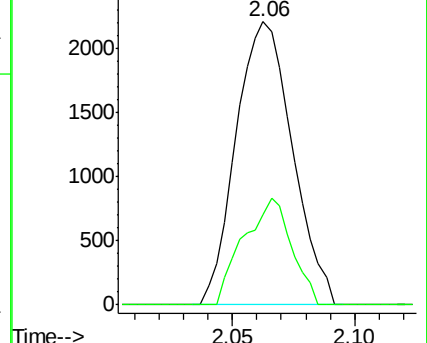
50 100

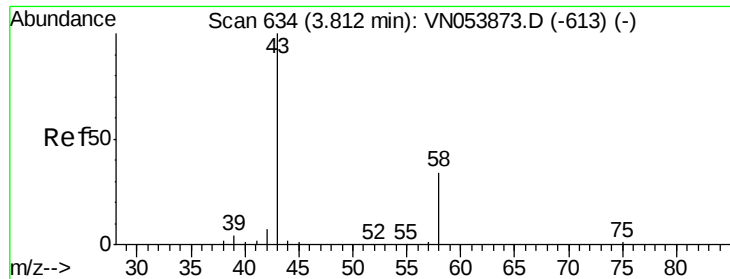
52 31.9 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#16

Acetone

Concen: 4.600 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN053881.D

Acq: 21 Feb 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

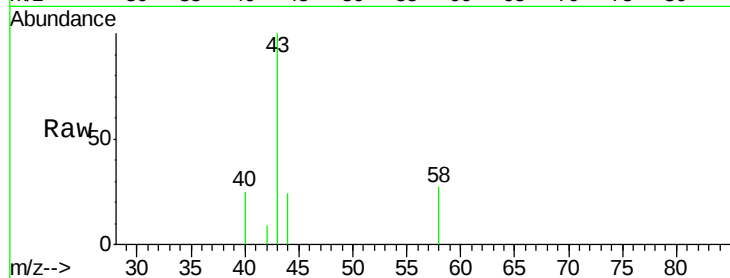
OUTFALL001-190219

Tot Ion: 43 Resp: 8152

Ion Ratio Lower Upper

43 100

58 26.6 27.6 41.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

2500

2000

1500

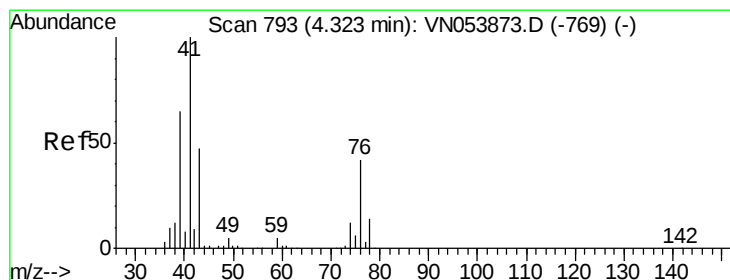
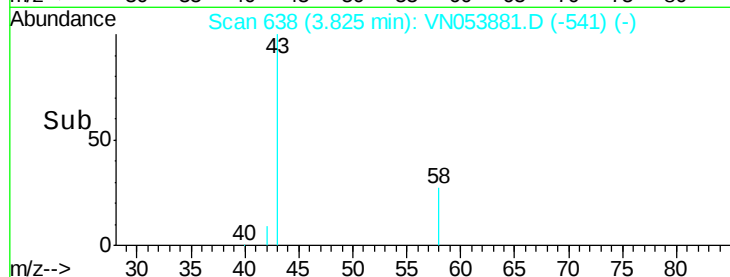
1000

500

0

Time-->

3.75 3.80 3.85 3.90



#18

Methyl Acetate

Concen: 0.247 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.01 min

Lab File: VN053881.D

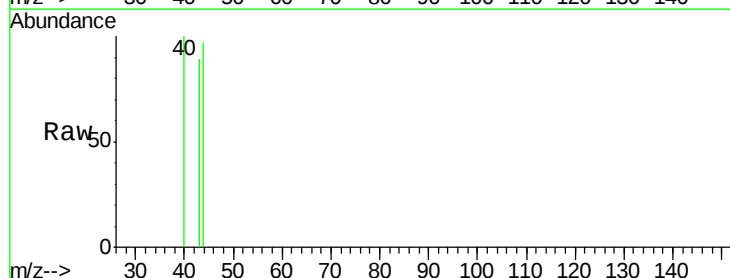
Acq: 21 Feb 2019 10:08

Tgt Ion: 43 Resp: 1034

Ion Ratio Lower Upper

43 100

74 0.0 20.5 30.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.33

600

500

400

300

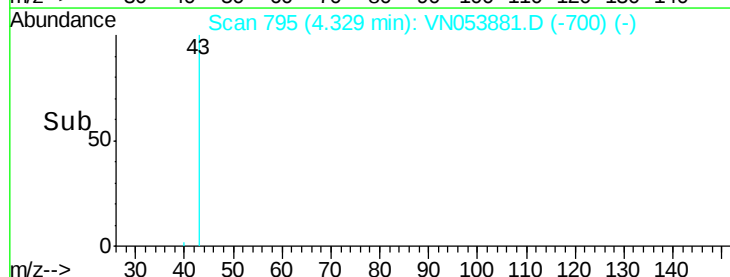
200

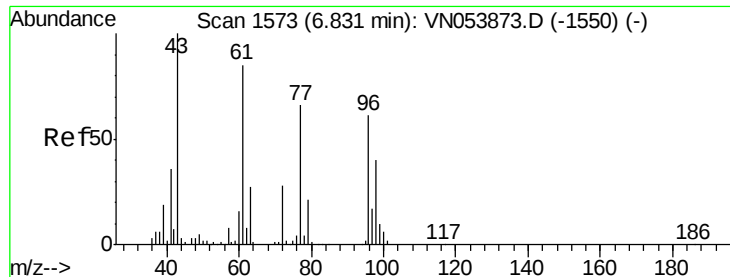
100

0

Time-->

4.28 4.30 4.32 4.34 4.36





#27

cis-1,2-Dichloroethene

Concen: 5.955 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VN053881.D

Acq: 21 Feb 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

OUTFALL001-190219

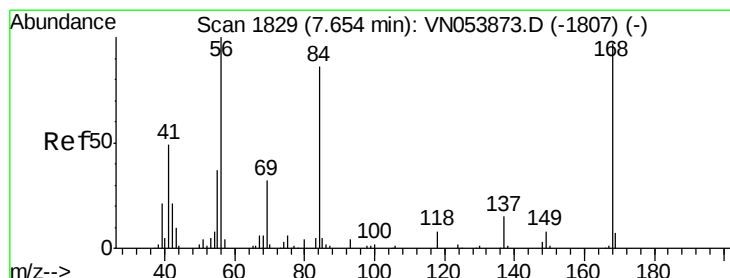
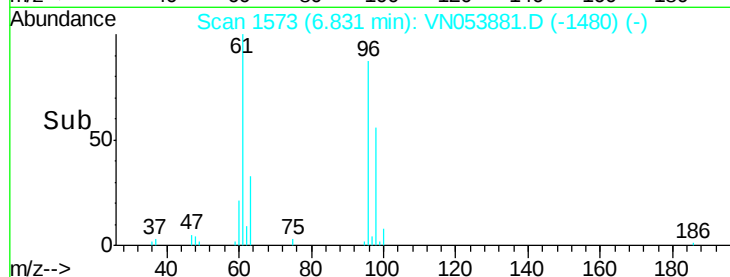
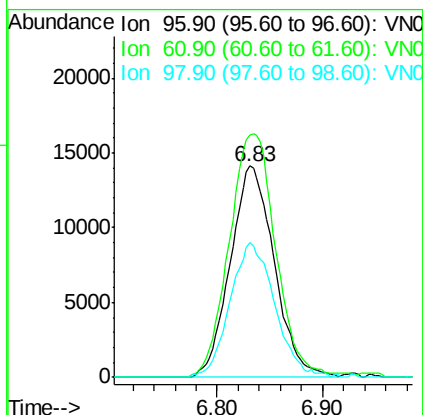
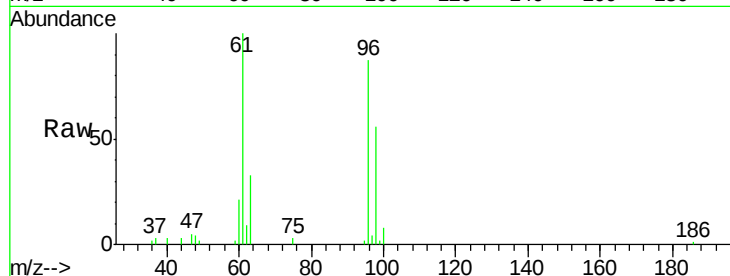
Tot Ion: 96 Resp: 40971

Ion Ratio Lower Upper

96 100

61 121.8 0.0 275.6

98 64.6 0.0 130.0



#31

Cyclohexane

Concen: 0.383 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN053881.D

Acq: 21 Feb 2019 10:08

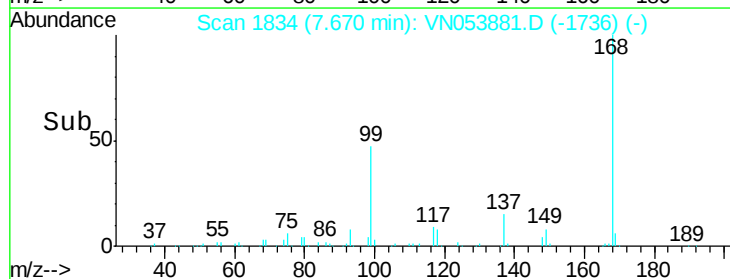
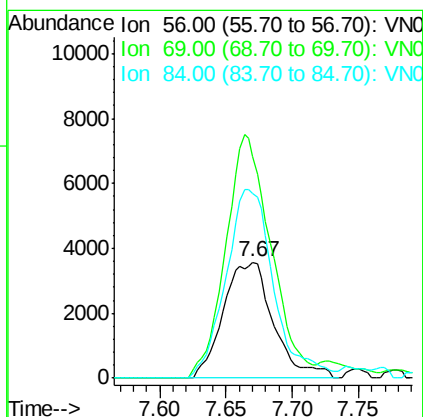
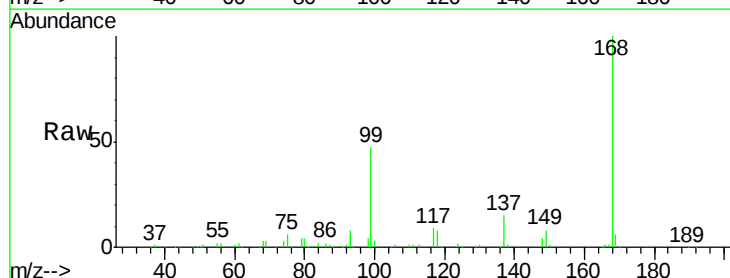
Tgt Ion: 56 Resp: 9393

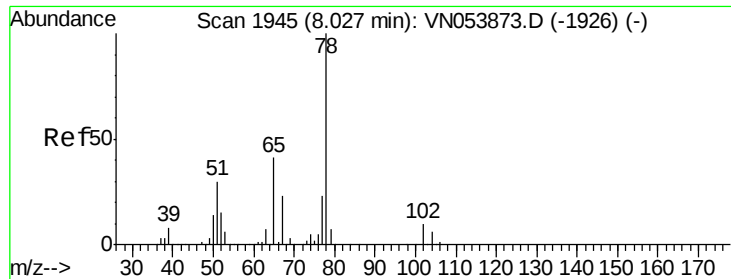
Ion Ratio Lower Upper

56 100

69 191.6 26.0 39.0#

84 159.0 69.1 103.7#

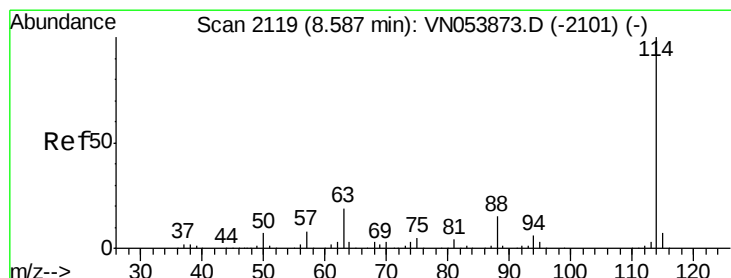
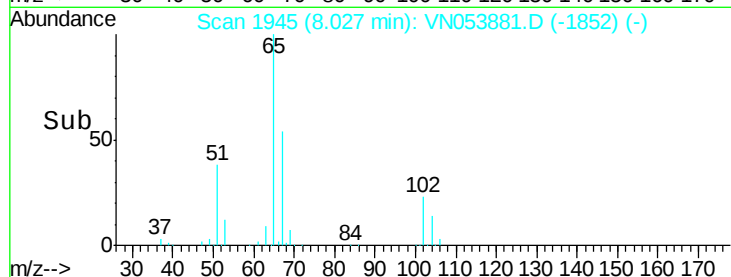
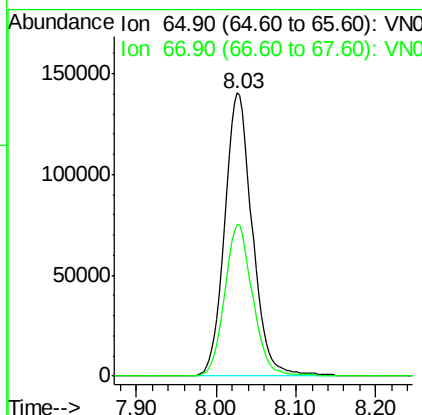
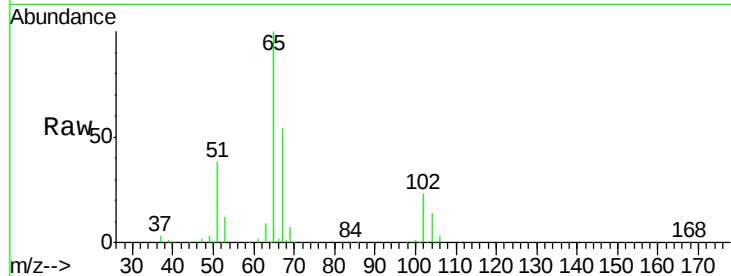




#33
 1,2-Dichloroethane-d4
 Concen: 51.637 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN053881.D
 Acq: 21 Feb 2019 10:08

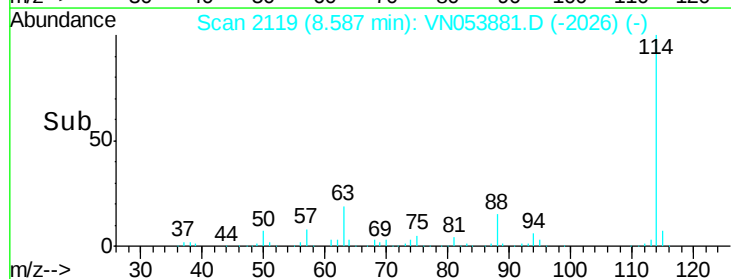
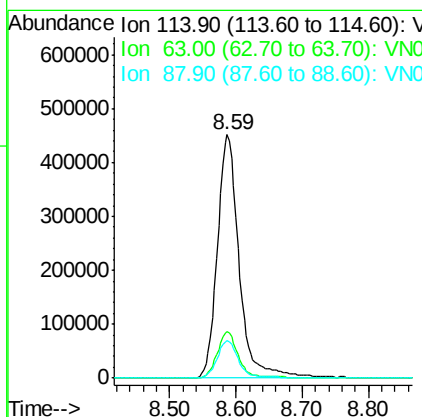
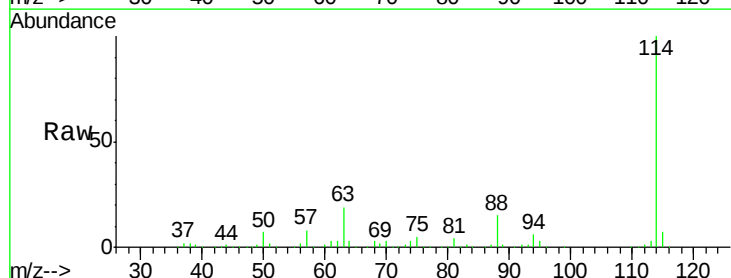
Instrument :
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 OUTFALL001-190219

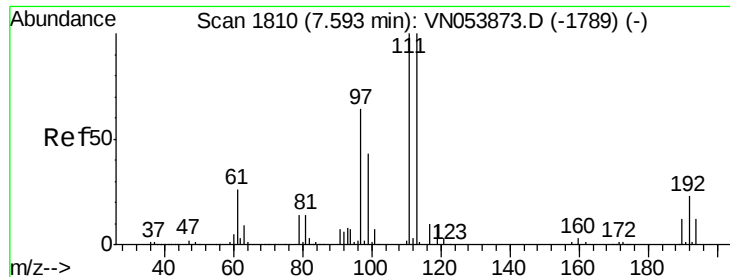
Tot Ion: 65 Resp: 332741
 Ion Ratio Lower Upper
 65 100
 67 54.4 0.0 111.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN053881.D
 Acq: 21 Feb 2019 10:08

Tgt Ion: 114 Resp: 1034324
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 37.4
 88 15.3 0.0 30.4

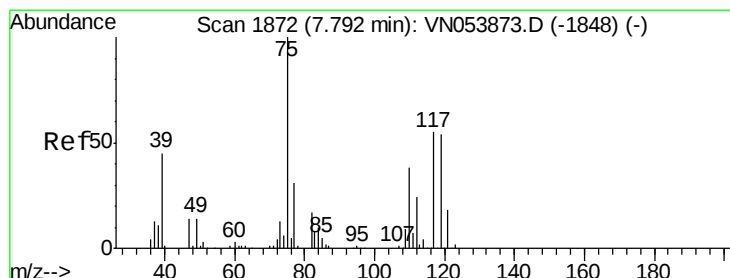
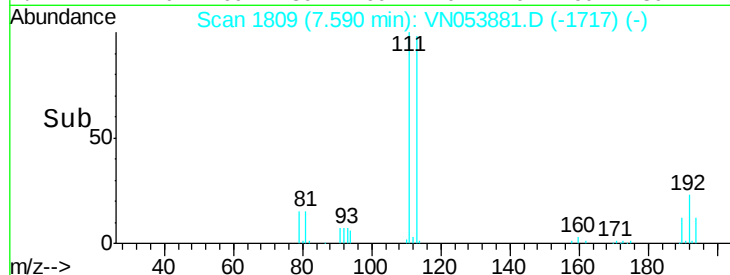
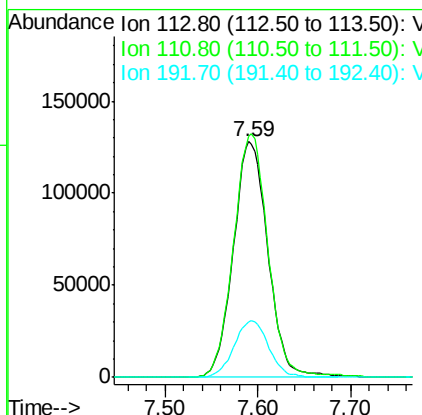
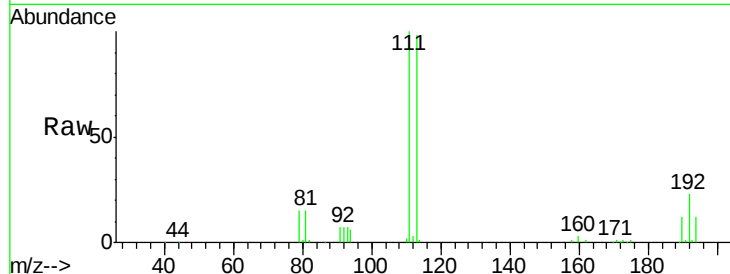




#35
 Dibromofluoromethane
 Concen: 48.815 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN053881.D
 Acq: 21 Feb 2019 10:08

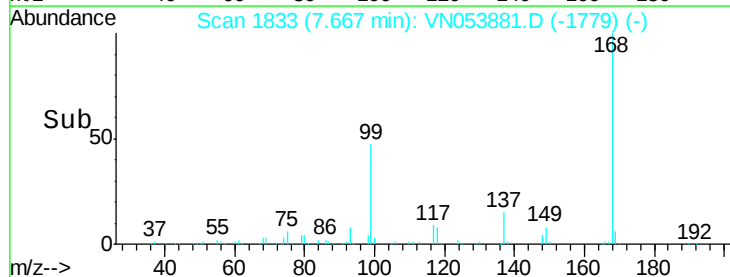
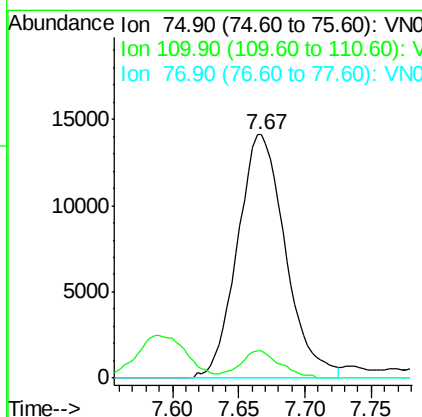
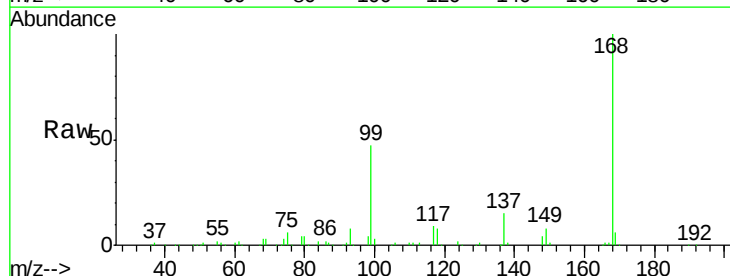
Instrument :
 MSVOA_N
 ClientSampleId :
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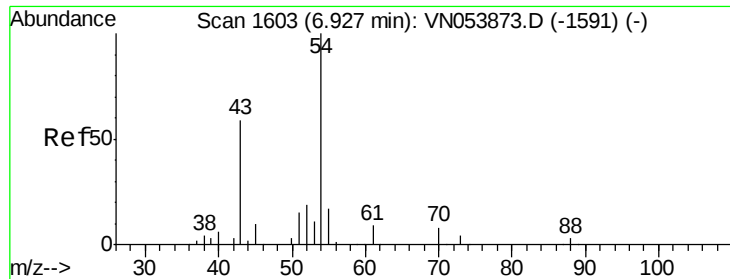
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	81.1	121.7
192	24.2	18.8	28.2



#36
 1,1-Dichloropropene
 Concen: 3.756 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN053881.D
 Acq: 21 Feb 2019 10:08

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.3	19.0	57.0#
77	0.0	25.4	38.0#





#37

Ethyl Acetate

Concen: 0.230 ug/l

RT: 6.87 min Scan# 1585

Delta R.T. -0.06 min

Lab File: VN053881.D

Acq: 21 Feb 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

OUTFALL001-190219

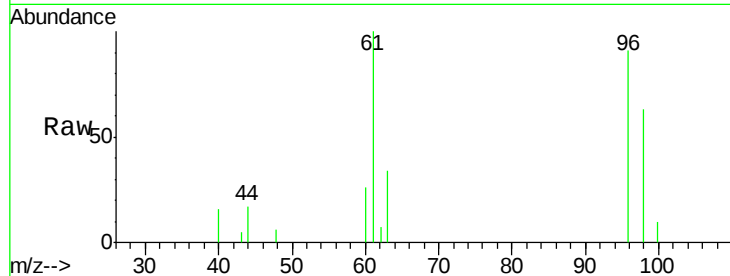
Tot Ion: 43 Resp: 62

Ion Ratio Lower Upper

43 100

61 0.0 12.0 18.0#

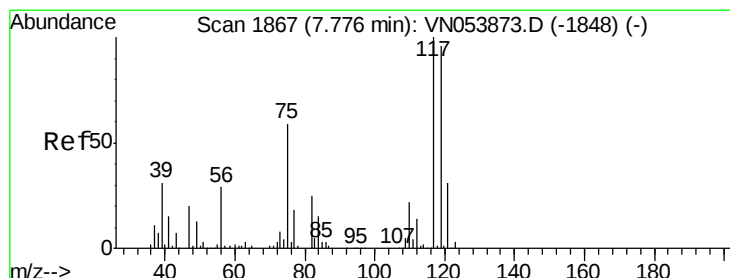
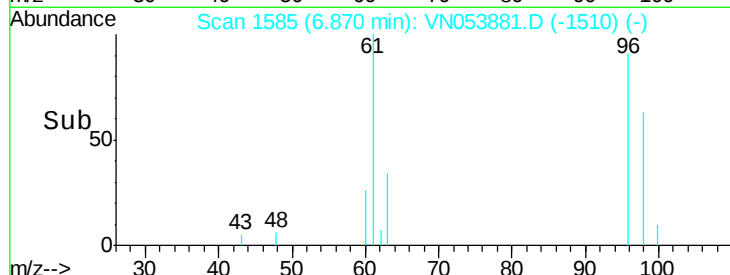
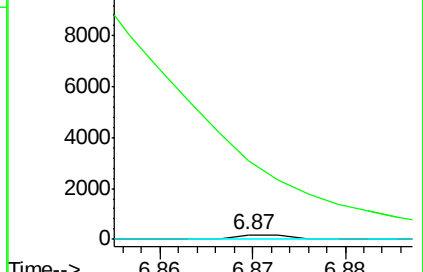
70 0.0 8.7 13.1#



Abundance Ion 43.00 (42.70 to 43.70): VN053881.D (-1510) (-)

Ion 60.90 (60.60 to 61.60): VN053881.D (-1510) (-)

Ion 70.00 (69.70 to 70.70): VN053881.D (-1510) (-)



#38

Carbon Tetrachloride

Concen: 5.206 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053881.D

Acq: 21 Feb 2019 10:08

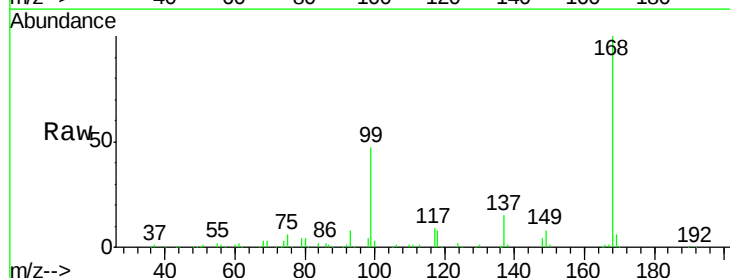
Tgt Ion: 117 Resp: 49300

Ion Ratio Lower Upper

117 100

119 5.5 76.2 114.2#

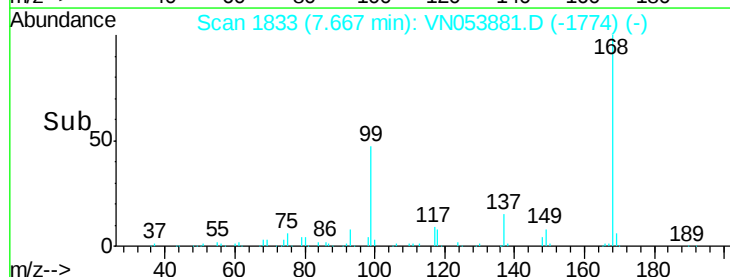
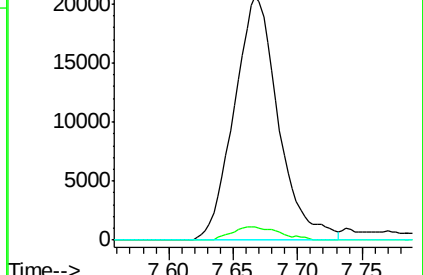
121 0.0 24.6 36.8#

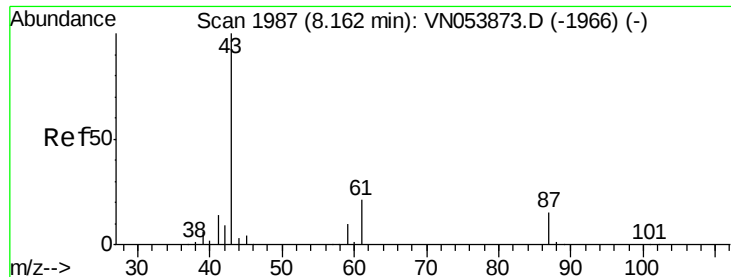


Abundance Ion 116.80 (116.50 to 117.50): VN053881.D (-1774) (-)

Ion 118.80 (118.50 to 119.50): VN053881.D (-1774) (-)

Ion 120.80 (120.50 to 121.50): VN053881.D (-1774) (-)





#43

Isopropyl Acetate

Concen: 0.738 ug/l

RT: 8.21 min Scan# 2003

Delta R.T. 0.05 min

Lab File: VN053881.D

Acq: 21 Feb 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

OUTFALL001-190219

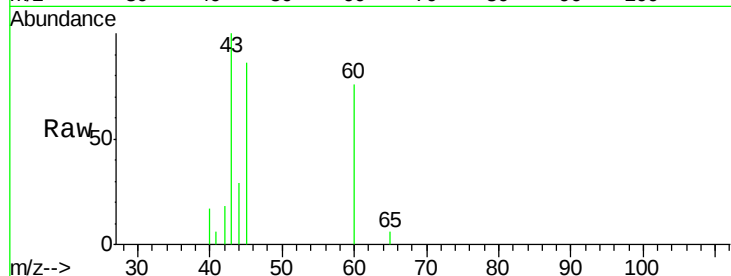
Tot Ion: 43 Resp: 7462

Ion Ratio Lower Upper

43 100

61 0.0 17.4 26.0#

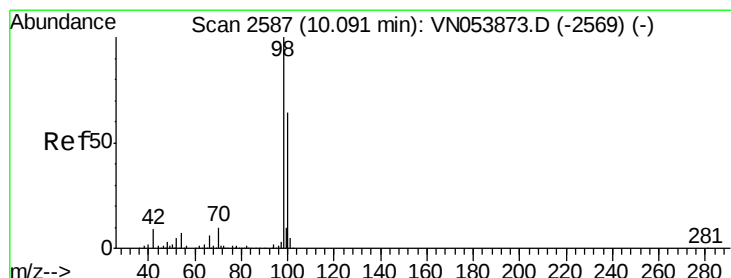
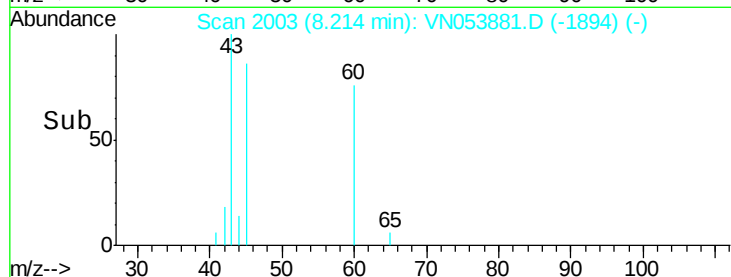
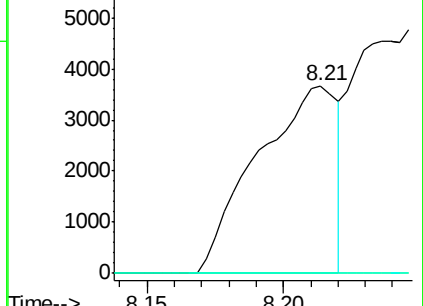
87 0.0 11.5 17.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 51.873 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053881.D

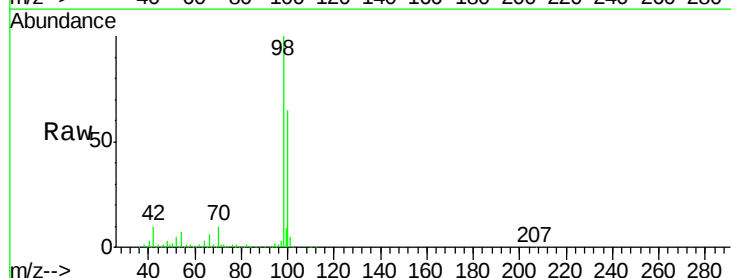
Acq: 21 Feb 2019 10:08

Tgt Ion: 98 Resp: 1271764

Ion Ratio Lower Upper

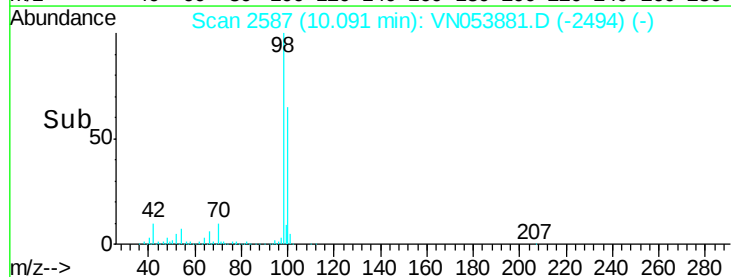
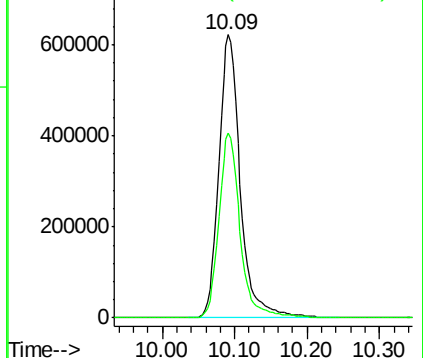
98 100

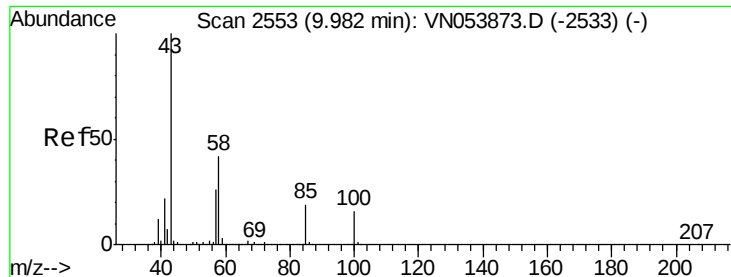
100 64.7 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 6.566 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.01 min

Lab File: VN053881.D

Acq: 21 Feb 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

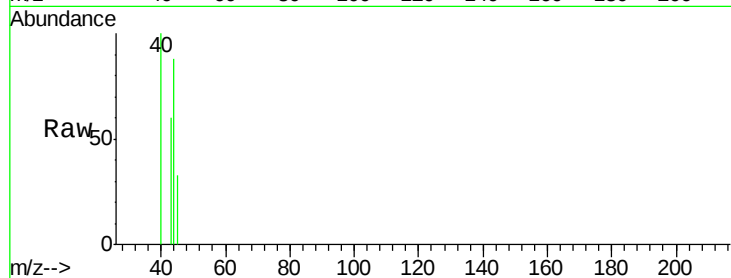
OUTFALL001-190219

Tot Ion: 43 Resp: 238

Ion Ratio Lower Upper

43 100

58 0.0 32.7 49.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.99

400

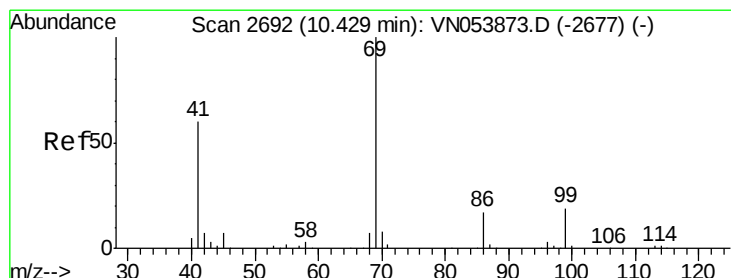
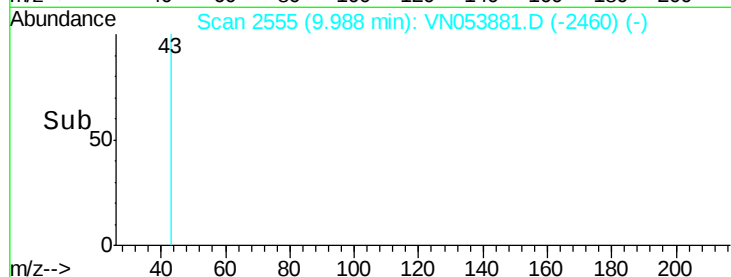
300

200

100

0

Time-->



#56

Ethyl methacrylate

Concen: 2.474 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. -0.29 min

Lab File: VN053881.D

Acq: 21 Feb 2019 10:08

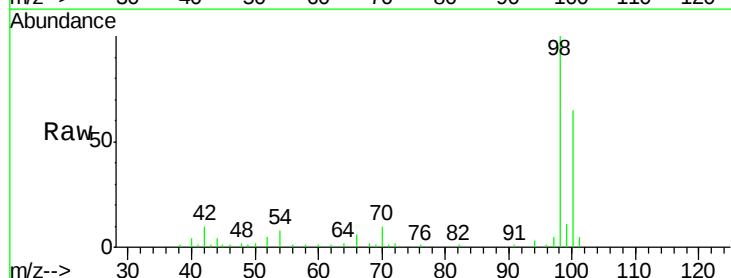
Tgt Ion: 69 Resp: 63

Ion Ratio Lower Upper

69 100

41 95.2 47.5 71.3#

39 0.0 23.4 35.0#



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

200

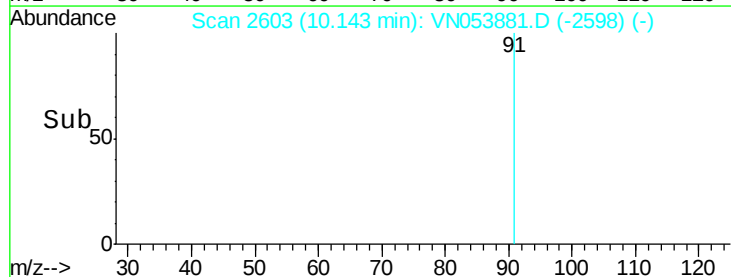
150

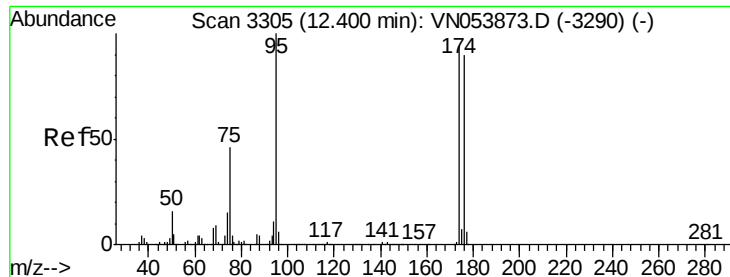
100

50

0

Time-->





#62

4-Bromofluorobenzene

Concen: 55.691 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053881.D

Acq: 21 Feb 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

OUTFALL001-190219

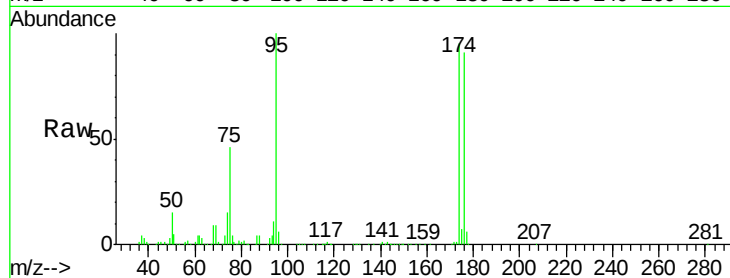
Tot Ion: 95 Resp: 450762

Ion Ratio Lower Upper

95 100

174 94.6 0.0 188.8

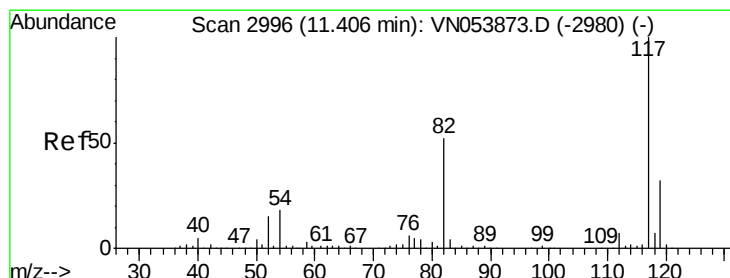
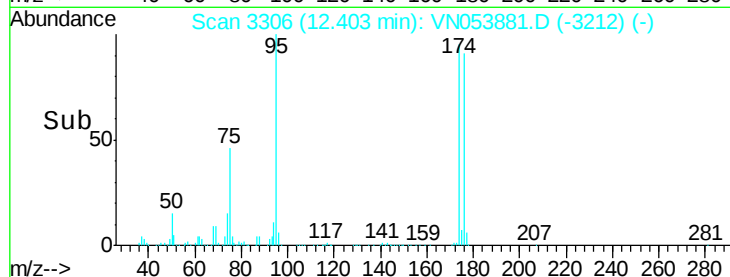
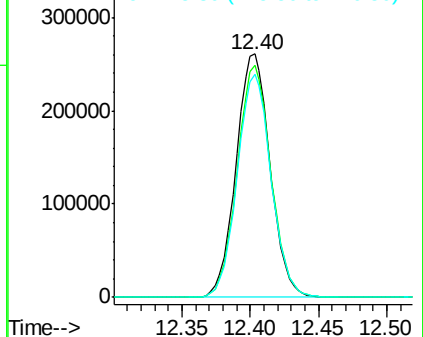
176 91.1 0.0 182.6



Abundance Ion 94.90 (94.60 to 95.60): VN053873.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN053873.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN053873.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN053881.D

Acq: 21 Feb 2019 10:08

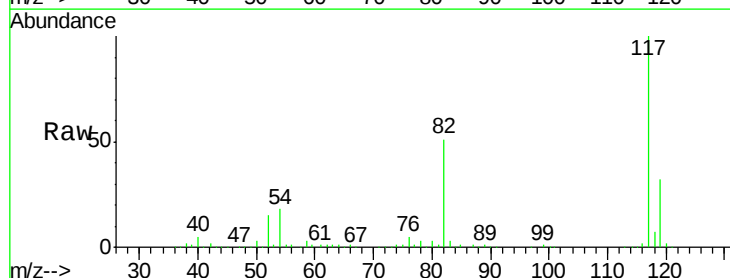
Tgt Ion: 117 Resp: 1095083

Ion Ratio Lower Upper

117 100

82 51.0 41.4 62.2

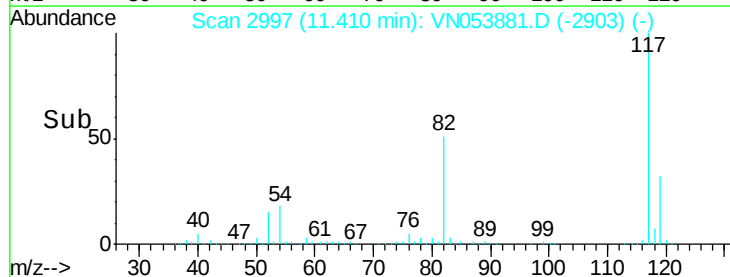
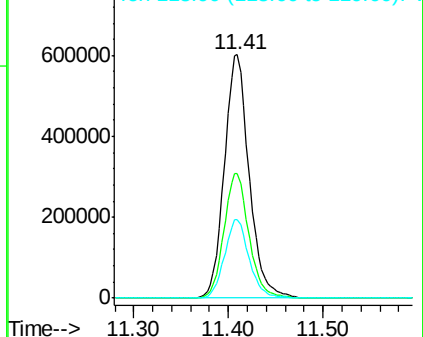
119 32.4 25.3 37.9

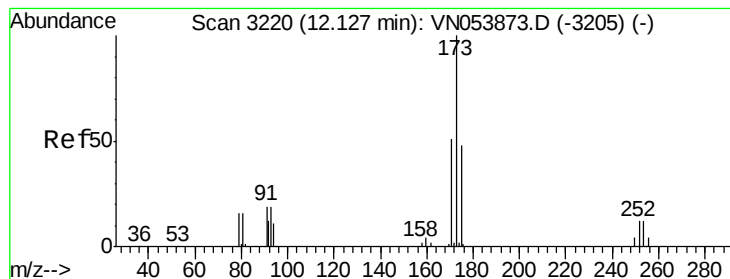


Abundance Ion 116.90 (116.60 to 117.60): VN053873.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN053873.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN053873.D (-2980) (-)





#71

Bromoform

Concen: 0.557 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN053881.D

Acq: 21 Feb 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

OUTFALL001-190219

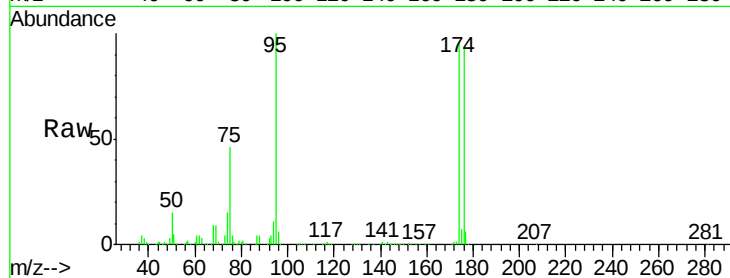
Tot Ion:173 Resp: 3308

Ion Ratio Lower Upper

173 100

175 789.6 24.3 72.8#

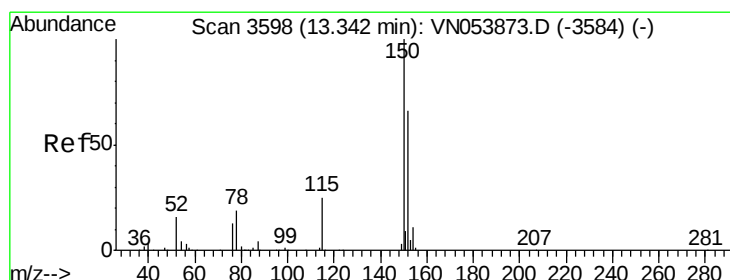
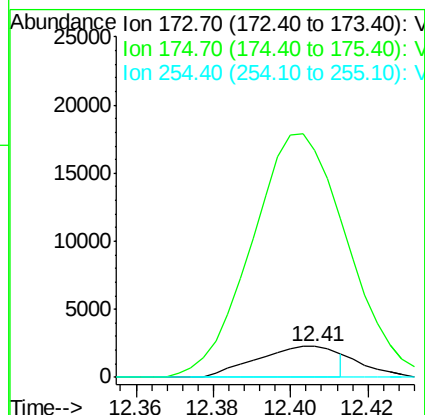
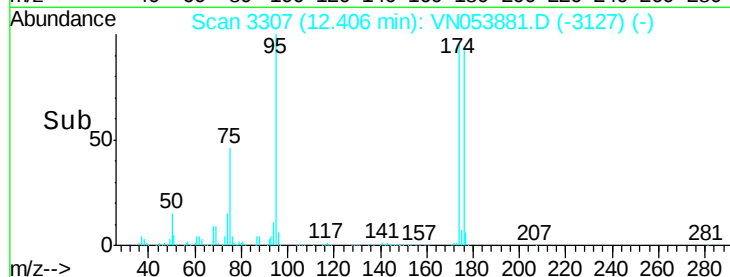
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053881.D

Acq: 21 Feb 2019 10:08

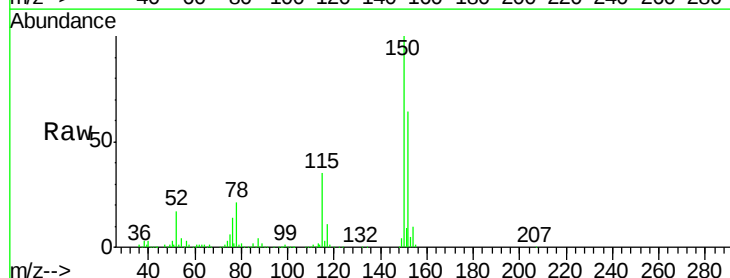
Tgt Ion:152 Resp: 421419

Ion Ratio Lower Upper

152 100

115 54.2 27.2 81.6

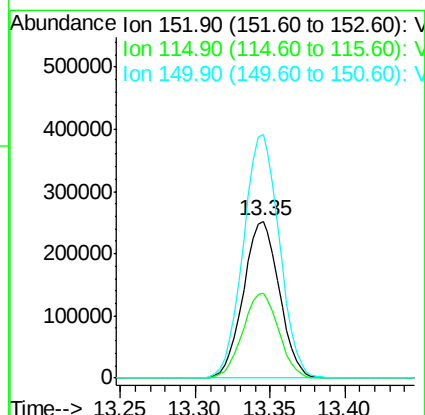
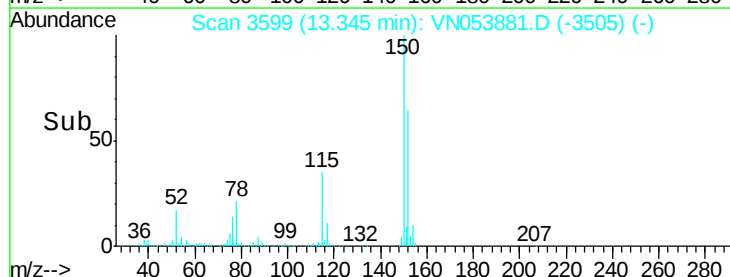
150 156.2 0.0 348.2

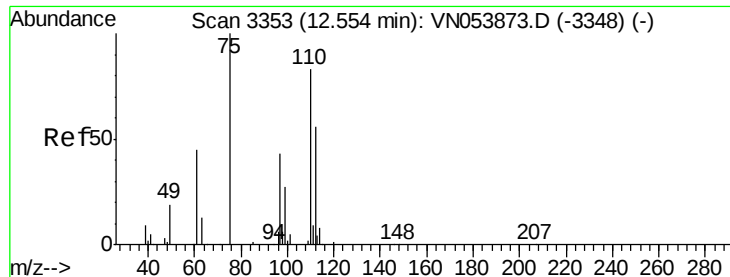


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 33.354 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053881.D

Acq: 21 Feb 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

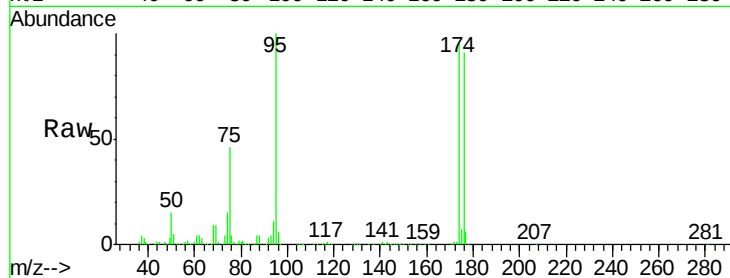
OUTFALL001-190219

Tot Ion: 75 Resp: 206345

Ion Ratio Lower Upper

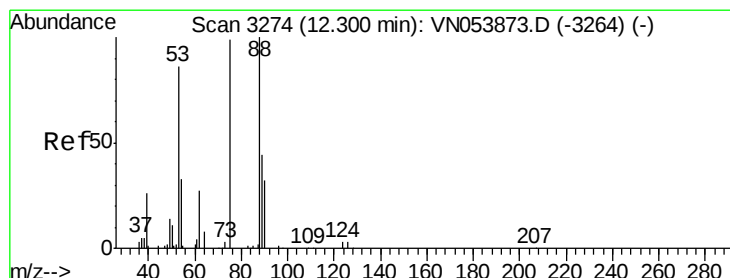
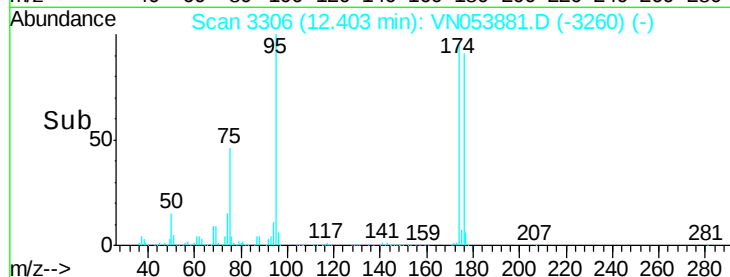
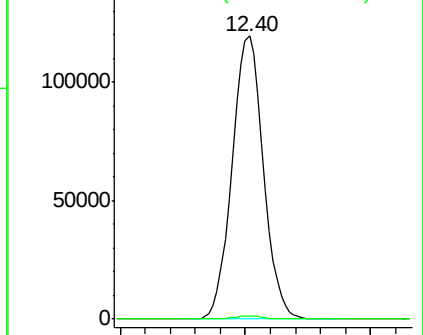
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 110.112 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053881.D

Acq: 21 Feb 2019 10:08

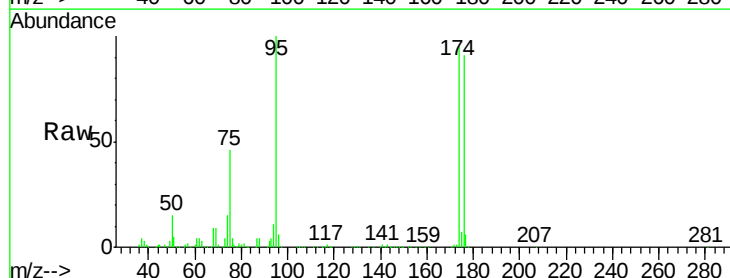
Tgt Ion: 75 Resp: 206345

Ion Ratio Lower Upper

75 100

53 0.0 68.6 102.8#

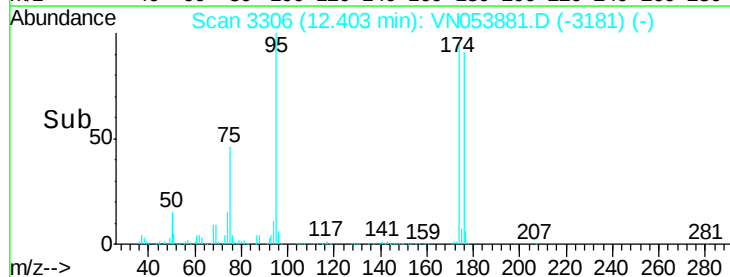
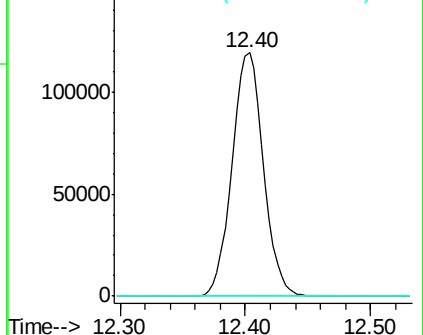
89 0.0 35.3 52.9#

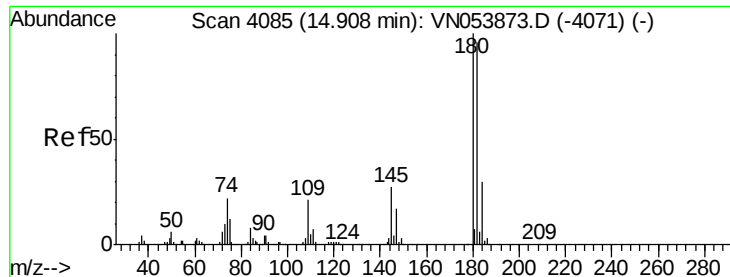


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

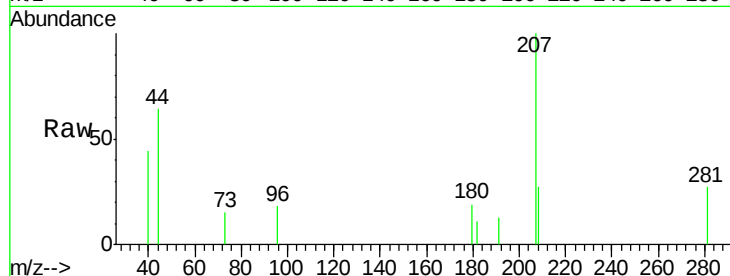




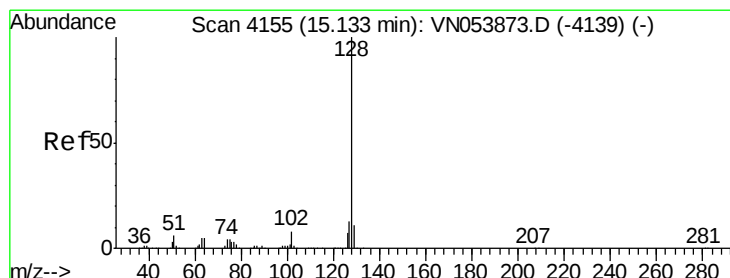
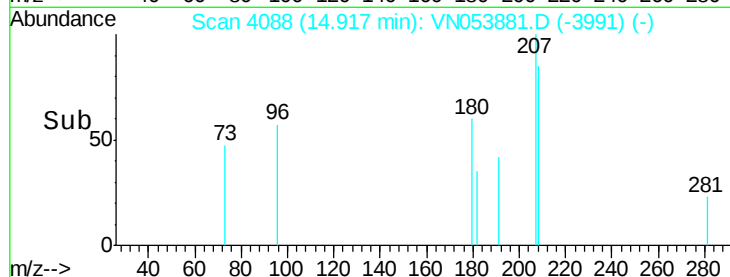
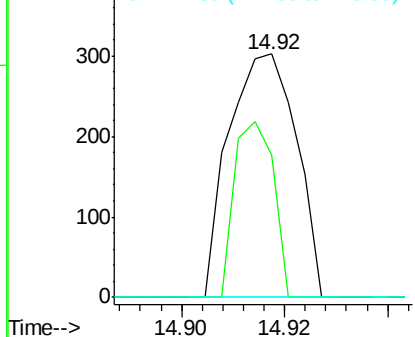
#93
 1,2,4-Trichlorobenzene
 Concen: 2.958 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.01 min
 Lab File: VN053881.D
 Acq: 21 Feb 2019 10:08

Instrument :
 MSVOA_N
 ClientSampleId :
 OUTFALL001-190219

Tot Ion:180 Resp: 274
 Ion Ratio Lower Upper
 180 100
 182 42.0 48.6 145.9#
 145 0.0 13.8 41.3#

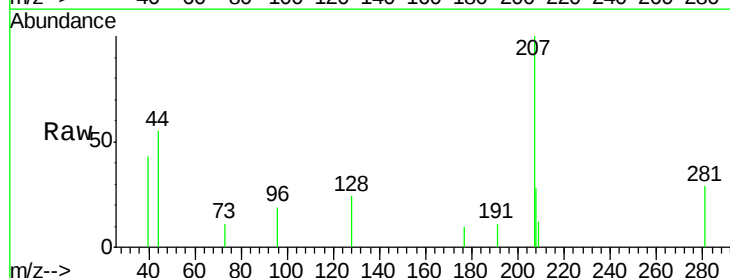


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 4.640 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. -0.00 min
 Lab File: VN053881.D
 Acq: 21 Feb 2019 10:08

Tgt Ion:128 Resp: 515
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.2 15.2#
 129 0.0 8.6 12.8#



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

