

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071118\
 Data File : VU025318.D
 Acq On : 11 Jul 2018 16:40
 Operator : MD/SY
 Sample : J3936-03
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 OUTFALL001-180619

Quant Time: Jul 12 03:12:30 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U070918W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 10 09:34:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	209698	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	311462	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	287925	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	149785	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	155195	47.64	ug/l	0.00
Spiked Amount			Recovery	=	95.28%	
35) Dibromofluoromethane	4.89	113	121951	46.41	ug/l	0.00
Spiked Amount			Recovery	=	92.82%	
50) Toluene-d8	7.57	98	449205	49.93	ug/l	0.00
Spiked Amount			Recovery	=	99.86%	
62) 4-Bromofluorobenzene	10.31	95	165440	45.67	ug/l	0.00
Spiked Amount			Recovery	=	91.34%	

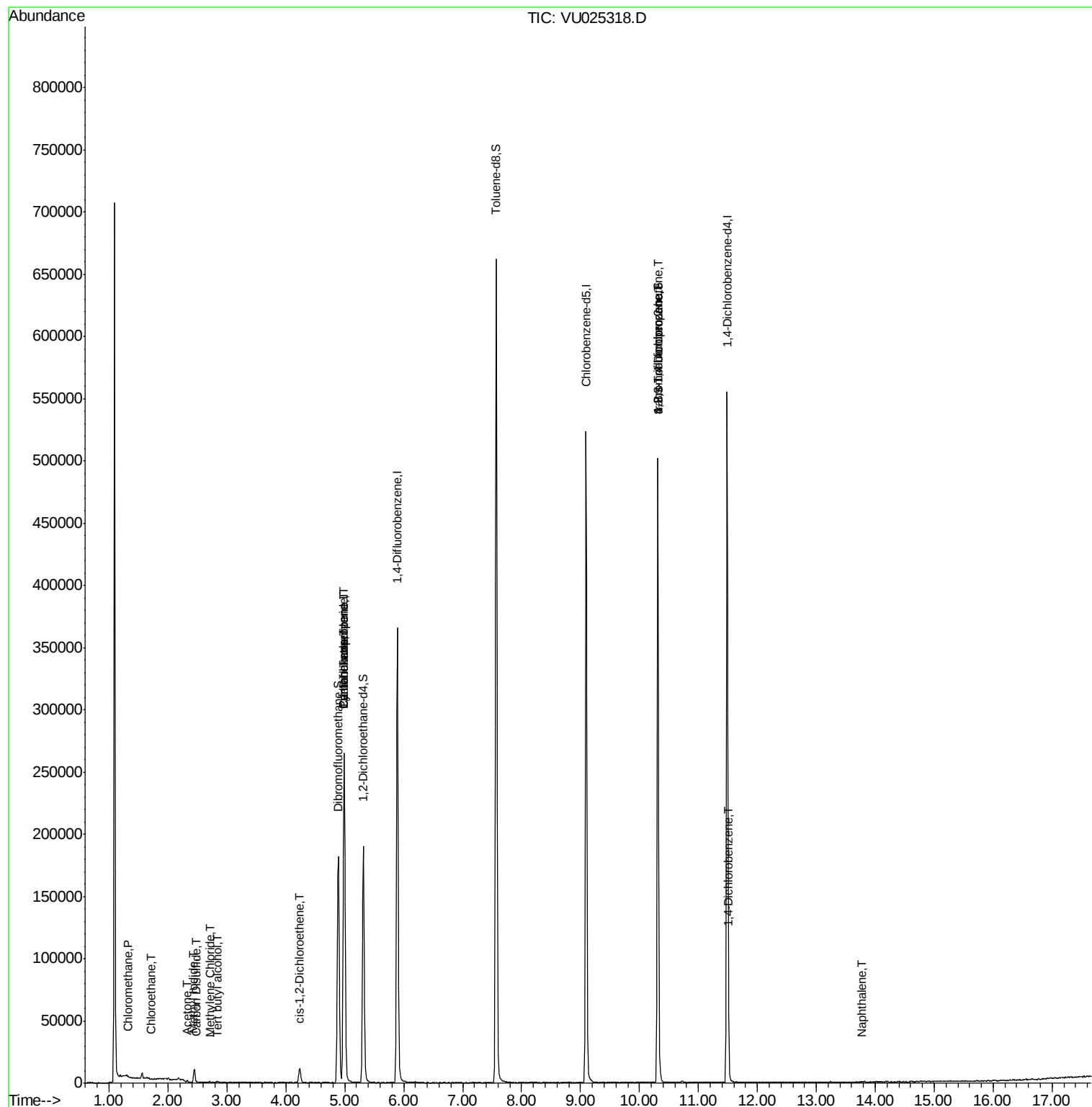
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	706	0.89	ug/l	# 83
5) Bromomethane	1.63	94	359	Below	Cal	99
6) Chloroethane	1.70	64	220	0.43	ug/l	# 43
10) Methyl Iodide	2.42	142	84	7.73	ug/l	# 39
11) Tert butyl alcohol	2.83	59	274	0.39	ug/l	# 73
16) Acetone	2.33	43	1619	5.82	ug/l	99
17) Carbon Disulfide	2.48	76	328	1.98	ug/l	# 74
20) Methylene Chloride	2.70	84	366	0.83	ug/l	# 69
27) cis-1,2-Dichloroethene	4.23	96	6792	2.42	ug/l	# 86
31) Cyclohexane	4.99	56	4156	1.74	ug/l	# 13
36) 1,1-Dichloropropene	4.99	75	15039	4.34	ug/l	# 51
38) Carbon Tetrachloride	4.99	117	19953	5.35	ug/l	# 16
76) 1,2,3-Trichloropropane	10.31	75	87317	28.62	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	10.31	75	87317	73.17	ug/l	# 100
88) 1,4-Dichlorobenzene	11.52	146	20	1.49	ug/l	# 25
95) Naphthalene	13.77	128	43	2.42	ug/l	# 69

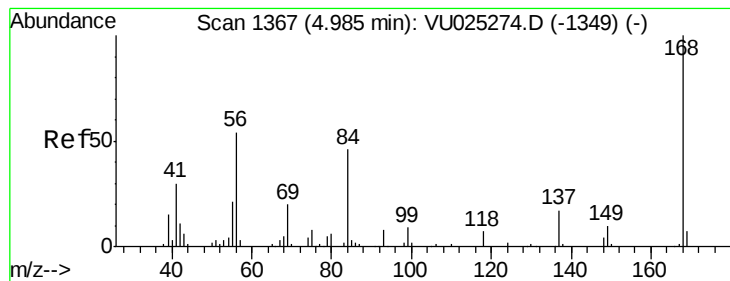
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025318.D

Acq: 11 Jul 2018 16:40

Instrument :

MSVOA_U

ClientSampleId :

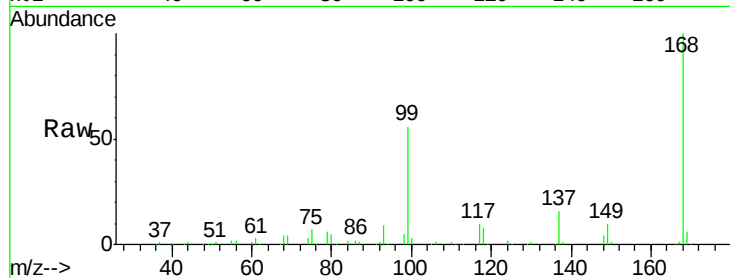
OUTFALL001-180619

Tot Ion:168 Resp: 209698

Ion Ratio Lower Upper

168 100

99 55.8 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): VU025274.D (-1349) (-)

Ion 98.90 (98.60 to 99.60): VU025274.D (-1349) (-)

4.99

100000

80000

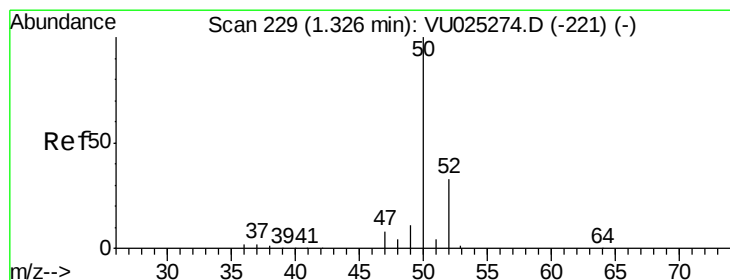
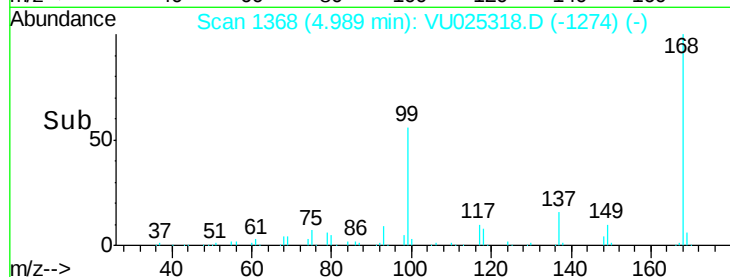
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.89 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU025318.D

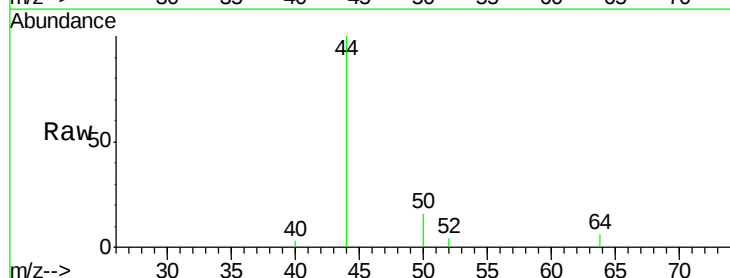
Acq: 11 Jul 2018 16:40

Tgt Ion: 50 Resp: 706

Ion Ratio Lower Upper

50 100

52 23.6 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VU025274.D (-221) (-)

Ion 51.90 (51.60 to 52.60): VU025274.D (-221) (-)

1.33

800

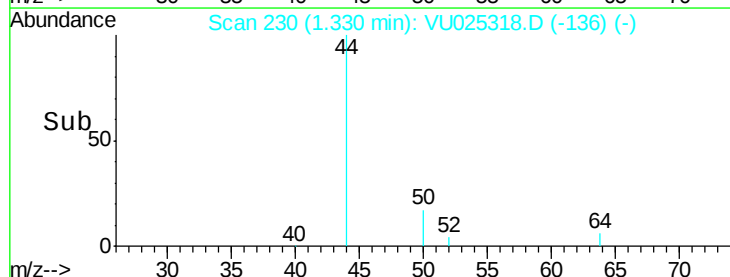
600

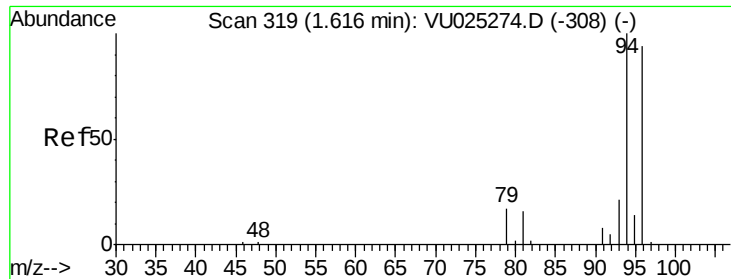
400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 323

Delta R.T. 0.01 min

Lab File: VU025318.D

Acq: 11 Jul 2018 16:40

Instrument :

MSVOA_U

ClientSampleId :

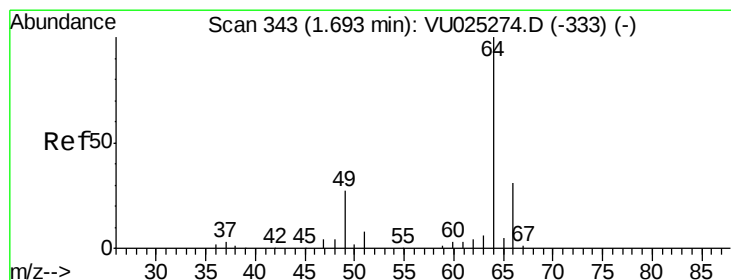
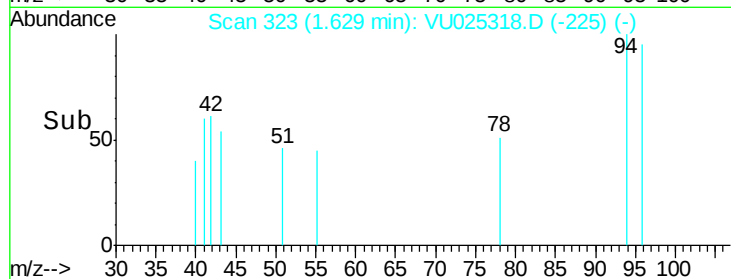
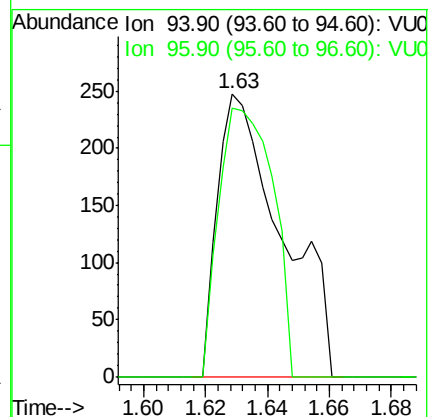
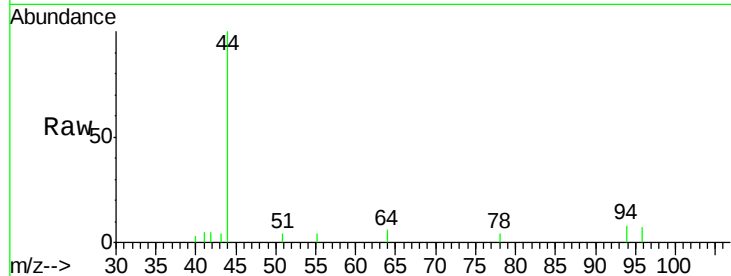
OUTFALL001-180619

Tot Ion: 94 Resp: 359

Ion Ratio Lower Upper

94 100

96 94.8 75.0 112.4



#6

Chloroethane

Concen: 0.43 ug/l

RT: 1.70 min Scan# 345

Delta R.T. 0.01 min

Lab File: VU025318.D

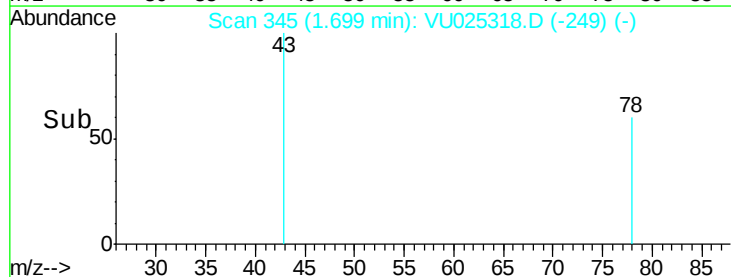
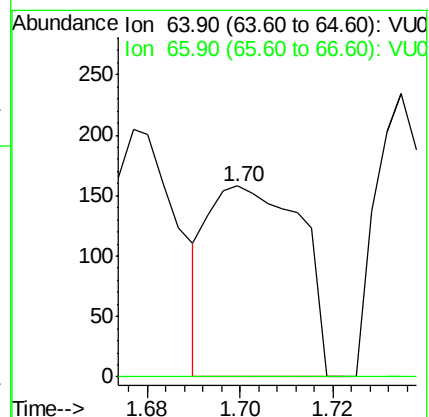
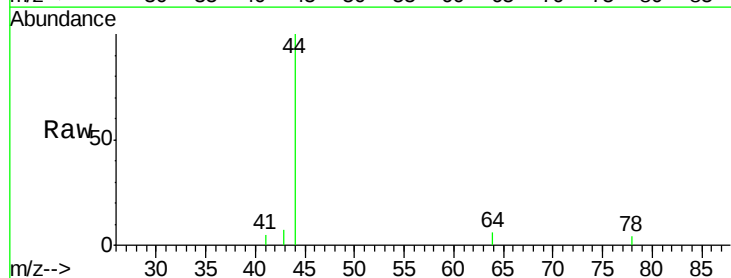
Acq: 11 Jul 2018 16:40

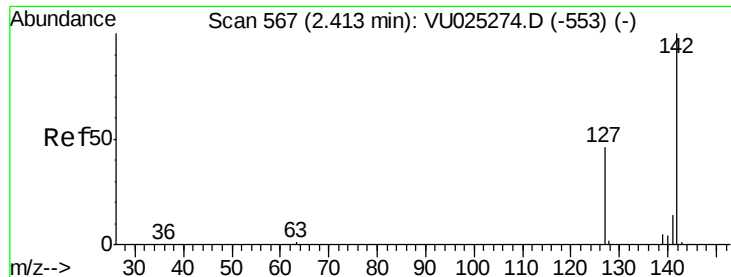
Tgt Ion: 64 Resp: 220

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.4#

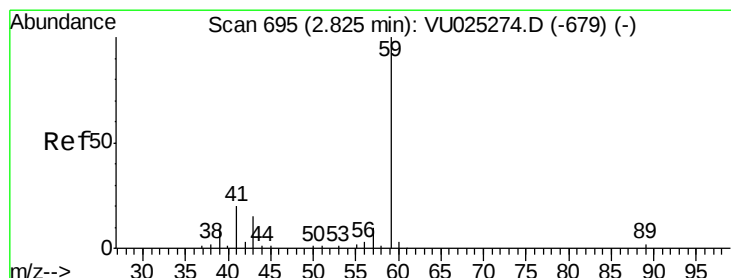
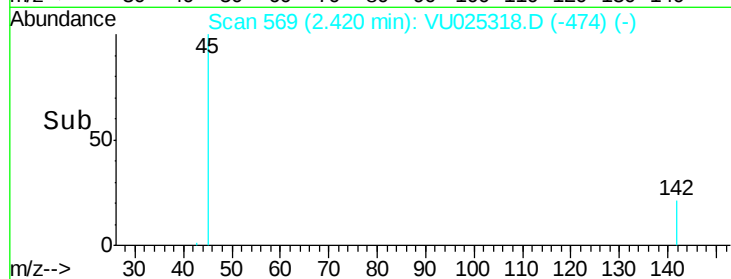
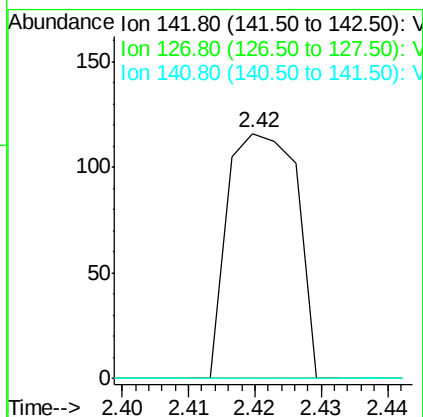
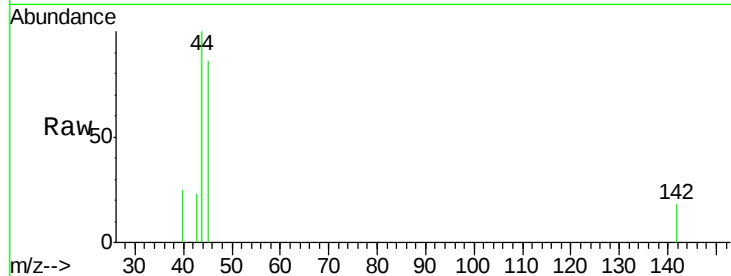




#10
Methvl Iodide
Concen: 7.73 ug/l
RT: 2.42 min Scan# 569
Delta R.T. 0.01 min
Lab File: VU025318.D
Acq: 11 Jul 2018 16:40

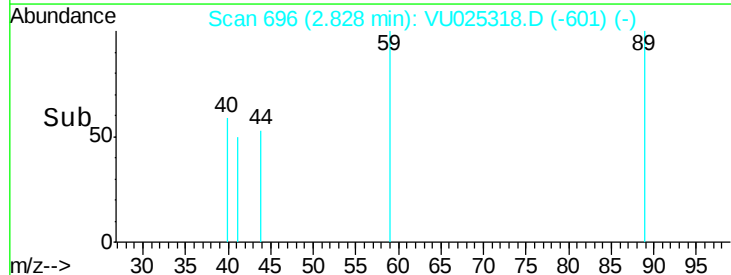
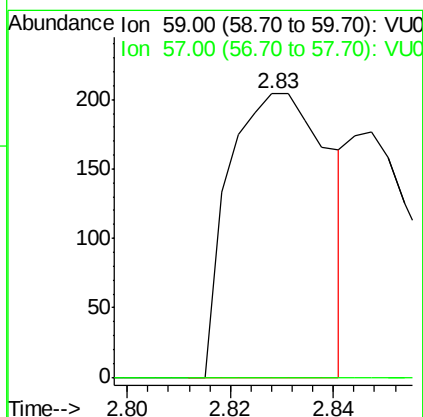
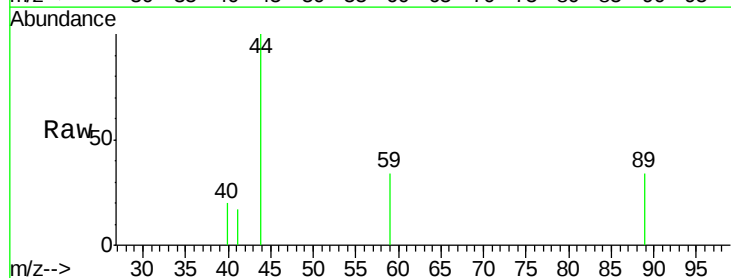
Instrument :
MSVOA_U
ClientSampleId :
OUTFALL001-180619

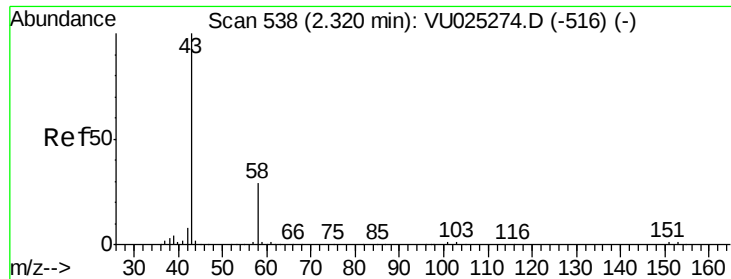
Tot Ion:142 Resp: 84
Ion Ratio Lower Upper
142 100
127 0.0 36.5 54.7#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 0.39 ug/l
RT: 2.83 min Scan# 696
Delta R.T. 0.00 min
Lab File: VU025318.D
Acq: 11 Jul 2018 16:40

Tgt Ion: 59 Resp: 274
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#





#16

Acetone

Concen: 5.82 ug/l

RT: 2.33 min Scan# 540

Delta R.T. 0.01 min

Lab File: VU025318.D

Acq: 11 Jul 2018 16:40

Instrument :

MSVOA_U

ClientSampleId :

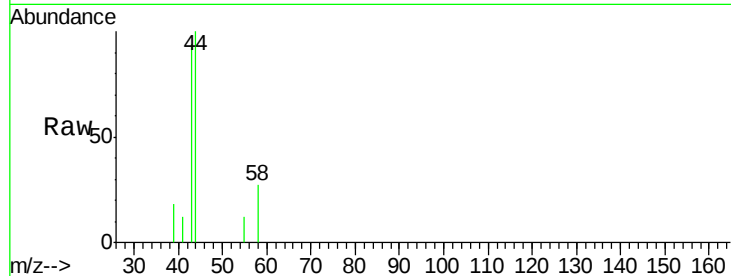
OUTFALL001-180619

Tot Ion: 43 Resp: 1619

Ion Ratio Lower Upper

43 100

58 29.2 23.1 34.7



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

2.33

800

600

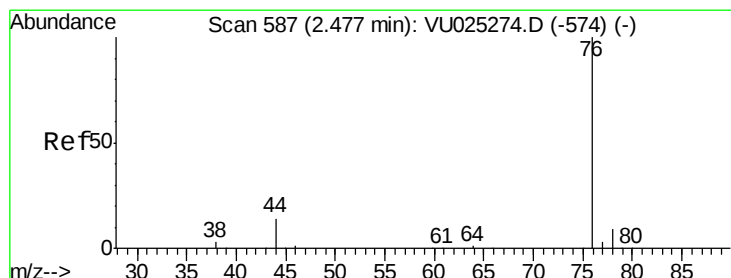
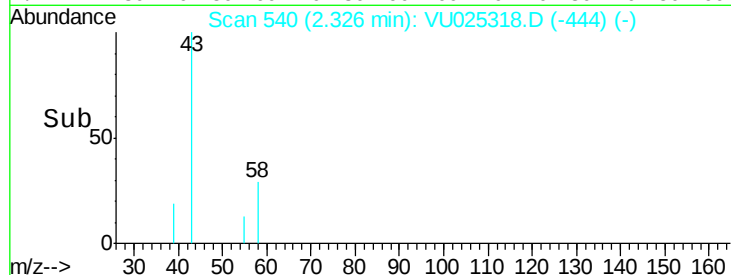
400

200

0

Time-->

2.30 2.35



#17

Carbon Disulfide

Concen: 1.98 ug/l

RT: 2.48 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU025318.D

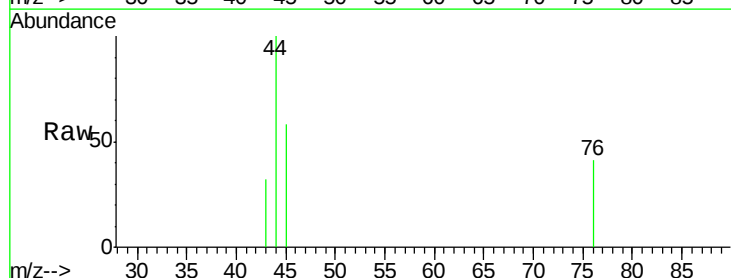
Acq: 11 Jul 2018 16:40

Tgt Ion: 76 Resp: 328

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

2.48

250

200

150

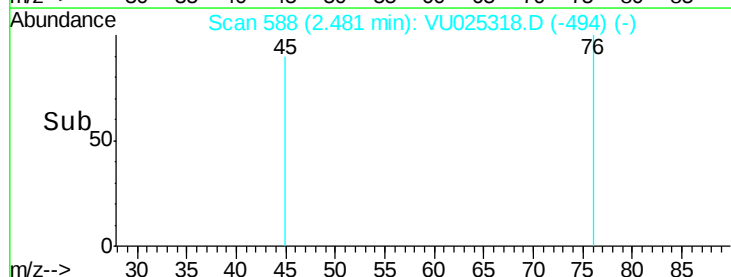
100

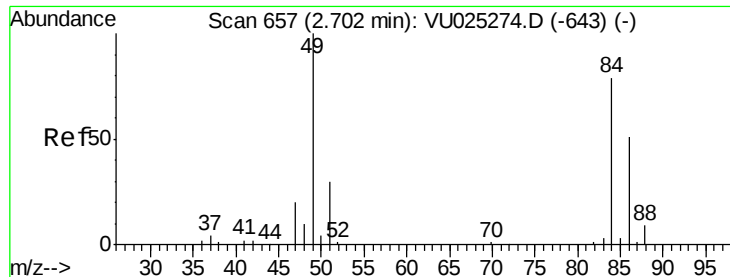
50

0

Time-->

2.46 2.48 2.50 2.52





#20

Methvlene Chloride

Concen: 0.83 ug/l

RT: 2.70 min Scan# 657

Delta R.T. 0.00 min

Lab File: VU025318.D

Acq: 11 Jul 2018 16:40

Instrument :

MSVOA_U

ClientSampleId :

OUTFALL001-180619

Tot Ion: 84 Resp: 366

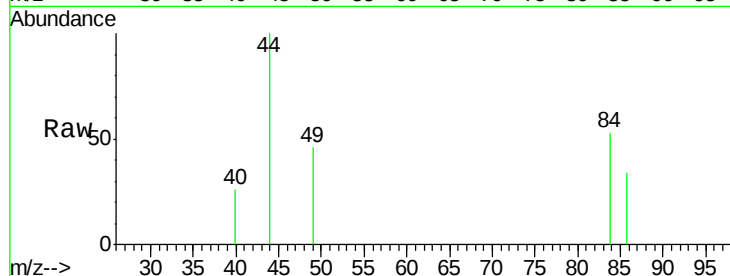
Ion Ratio Lower Upper

84 100

49 85.4 101.8 152.6#

51 0.0 30.8 46.2#

86 63.6 51.9 77.9

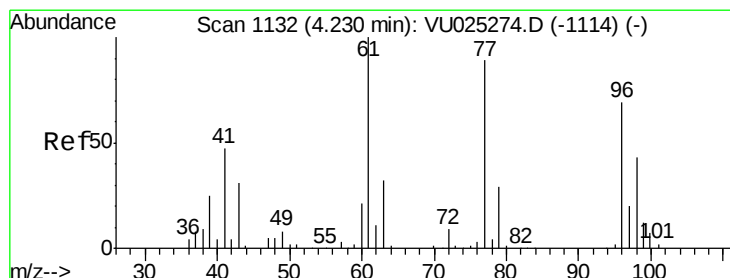
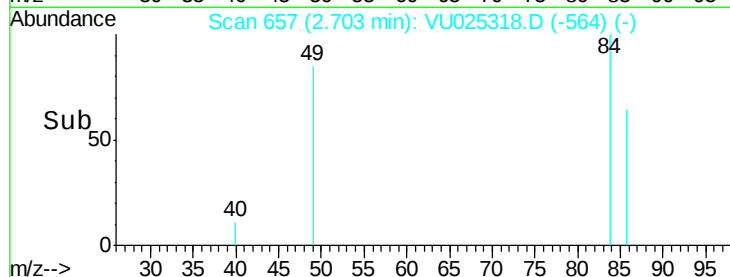
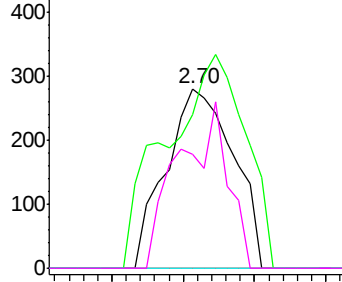


Abundance Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0



#27

cis-1,2-Dichloroethene

Concen: 2.42 ug/l

RT: 4.23 min Scan# 1133

Delta R.T. 0.00 min

Lab File: VU025318.D

Acq: 11 Jul 2018 16:40

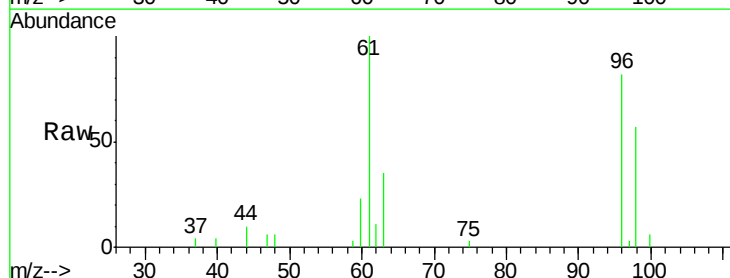
Tgt Ion: 96 Resp: 6792

Ion Ratio Lower Upper

96 100

61 128.8 0.0 299.8

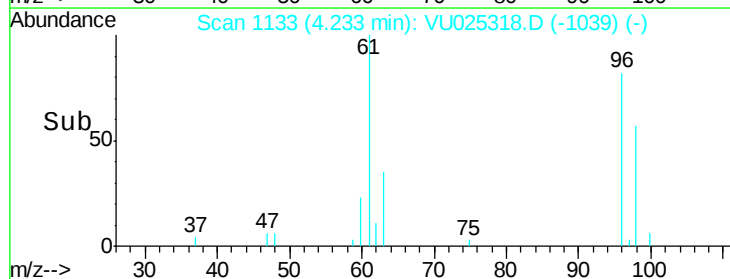
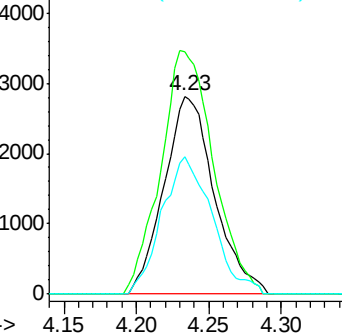
98 69.2 0.0 128.6

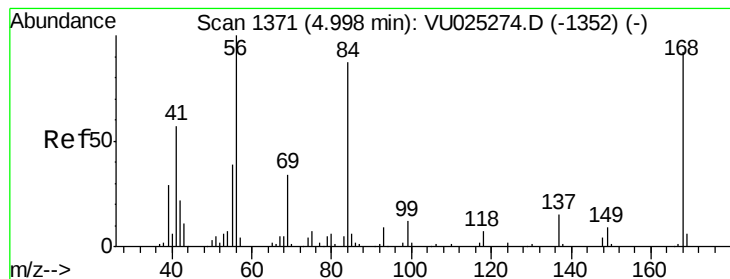


Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0





#31

Cyclohexane

Concen: 1.74 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VU025318.D

Acq: 11 Jul 2018 16:40

Instrument :

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OUTFALL001-180619

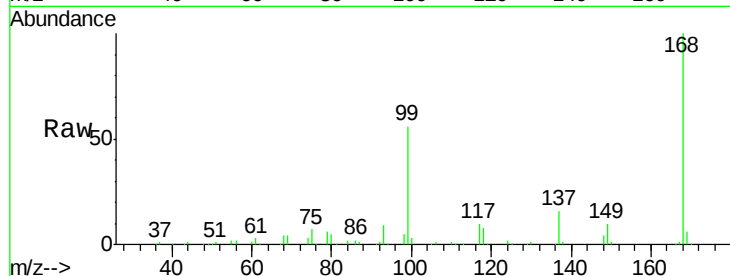
Tot Ion: 56 Resp: 4156

Ion Ratio Lower Upper

56 100

69 170.4 26.8 40.2#

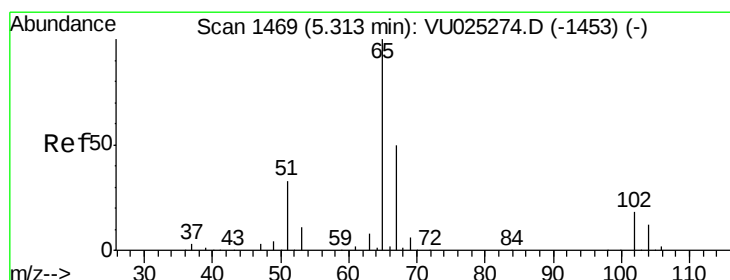
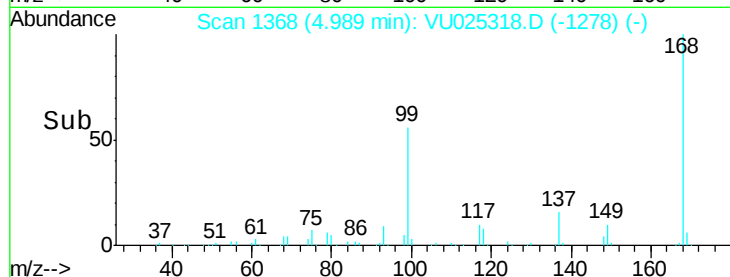
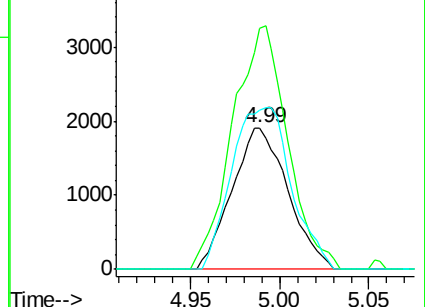
84 112.7 69.7 104.5#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0



#33

1,2-Dichloroethane-d4

Concen: 47.64 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VU025318.D

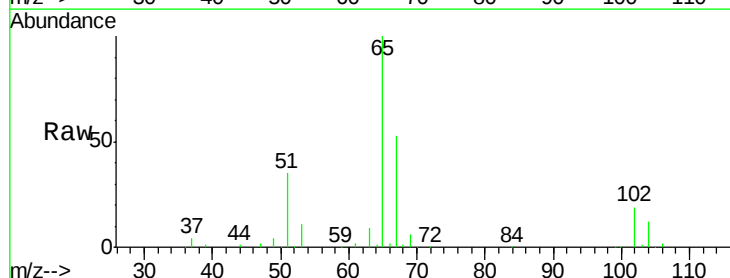
Acq: 11 Jul 2018 16:40

Tgt Ion: 65 Resp: 155195

Ion Ratio Lower Upper

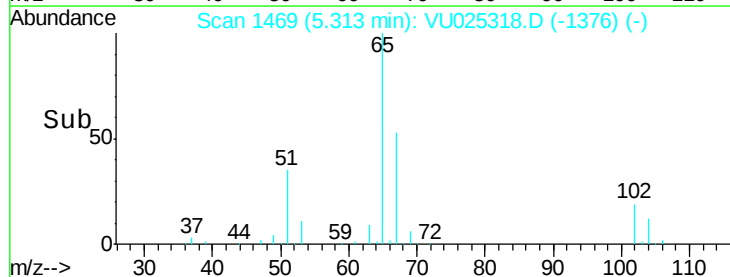
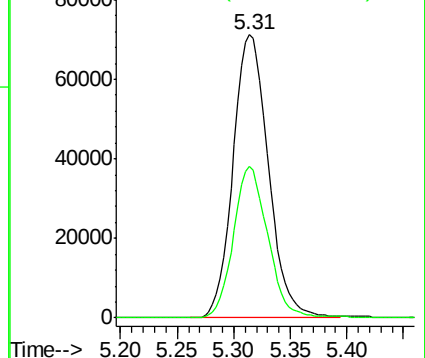
65 100

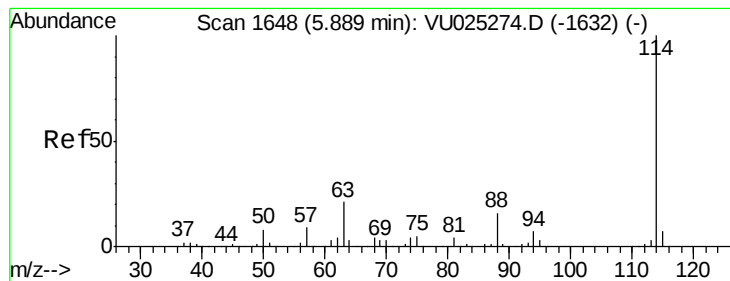
67 51.8 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU025318.D

Acq: 11 Jul 2018 16:40

Instrument :

MSVOA_U

ClientSampleId :

OUTFALL001-180619

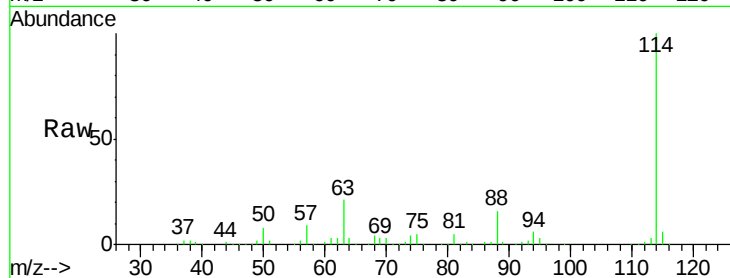
Tot Ion:114 Resp: 311462

Ion Ratio Lower Upper

114 100

63 20.7 0.0 41.6

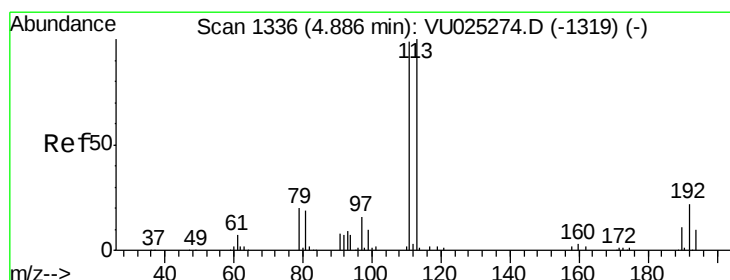
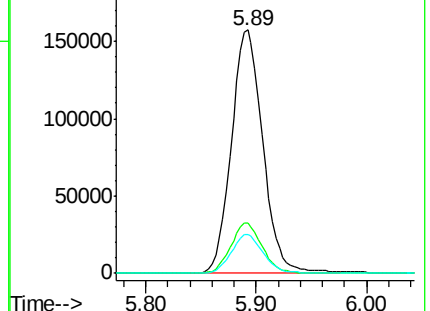
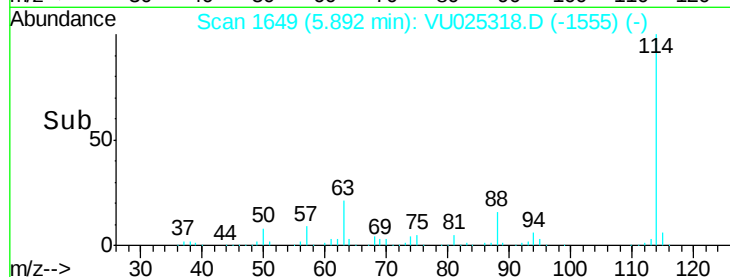
88 16.1 0.0 32.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35

Dibromofluoromethane

Concen: 46.41 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU025318.D

Acq: 11 Jul 2018 16:40

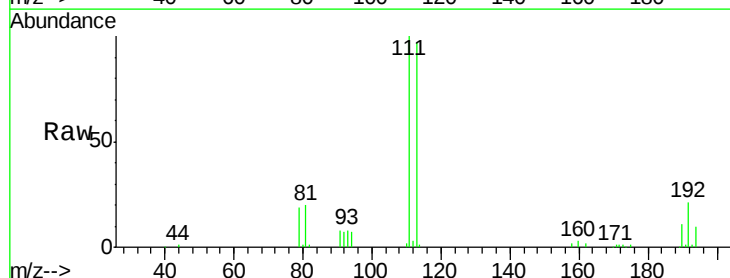
Tgt Ion:113 Resp: 121951

Ion Ratio Lower Upper

113 100

111 103.3 81.7 122.5

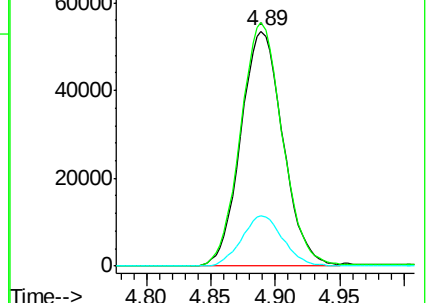
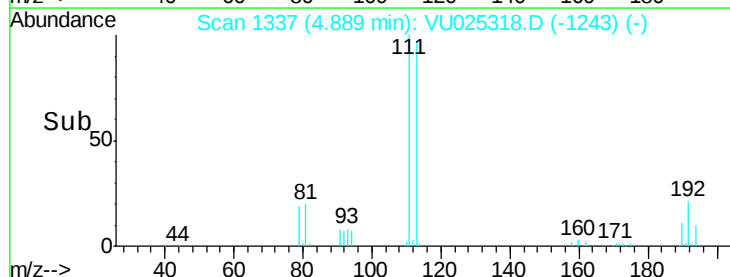
192 21.2 17.1 25.7

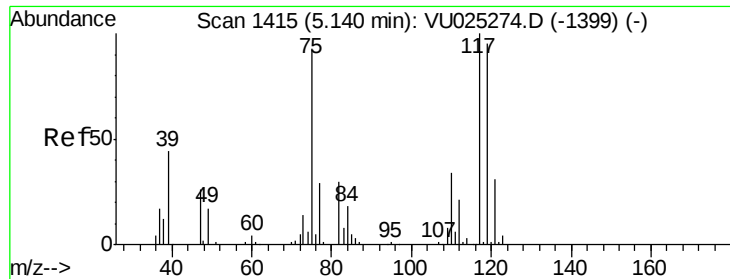


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

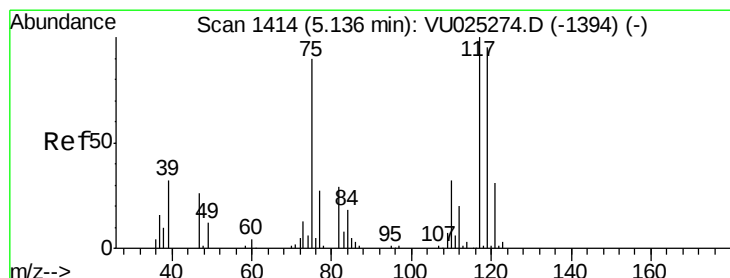
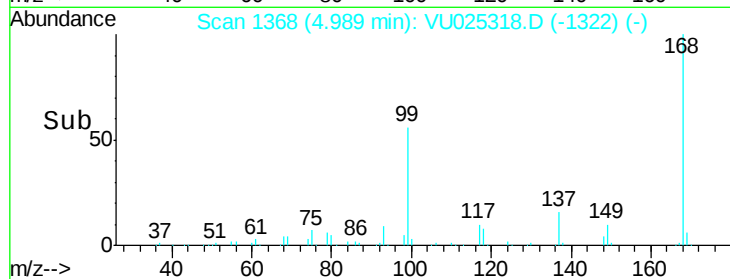
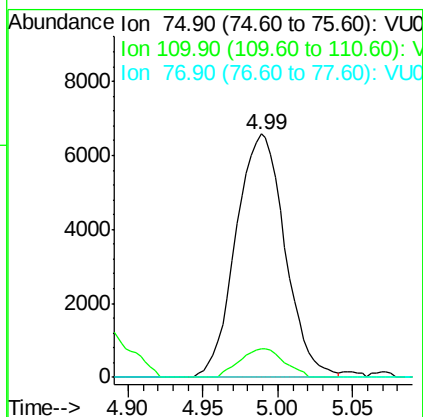
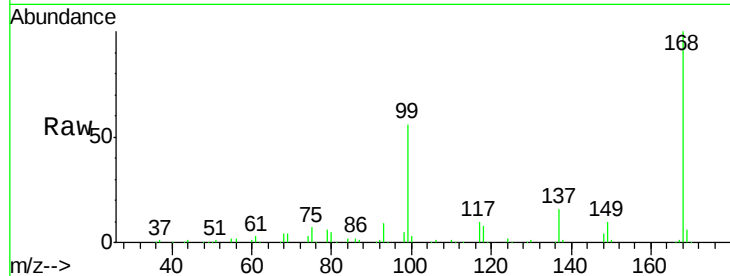




#36
 1,1-Dichloropropene
 Concen: 4.34 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU025318.D
 Acq: 11 Jul 2018 16:40

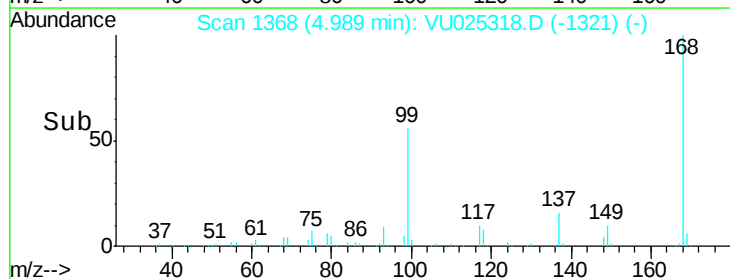
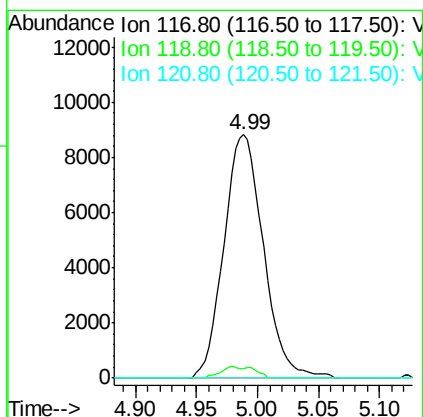
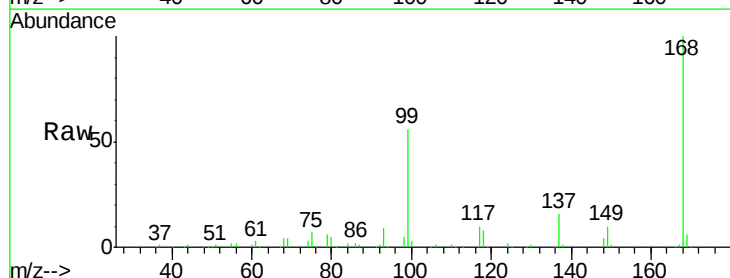
Instrument :
 MSVOA_U
 ClientSampleId :
 OUTFALL001-180619

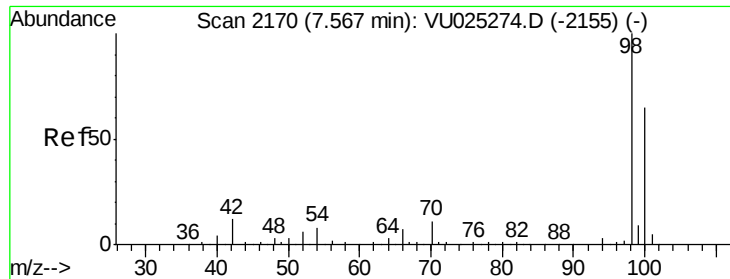
Tot Ion: 75 Resp: 15039
 Ion Ratio Lower Upper
 75 100
 110 10.5 17.6 52.9#
 77 0.0 24.4 36.6#



#38
 Carbon Tetrachloride
 Concen: 5.35 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU025318.D
 Acq: 11 Jul 2018 16:40

Tgt Ion: 117 Resp: 19953
 Ion Ratio Lower Upper
 117 100
 119 3.8 75.7 113.5#
 121 0.0 24.6 36.8#





#50

Toluene-d8

Concen: 49.93 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VU025318.D

Acq: 11 Jul 2018 16:40

Instrument :

MSVOA_U

ClientSampleId :

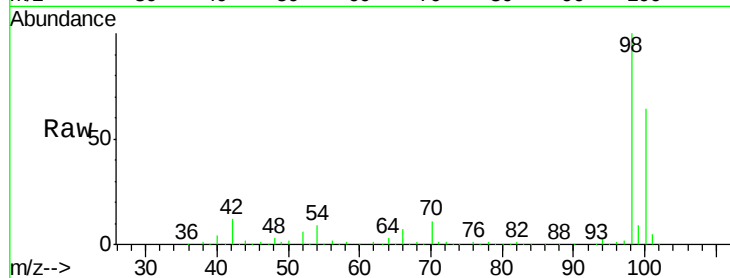
OUTFALL001-180619

Tot Ion: 98 Resp: 449205

Ion Ratio Lower Upper

98 100

100 63.9 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU025274.D (-2155) (-)

Ion 100.00 (99.70 to 100.70): VU025274.D (-2155) (-)

7.57

250000

200000

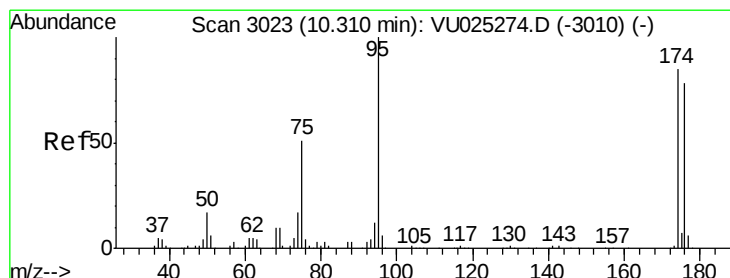
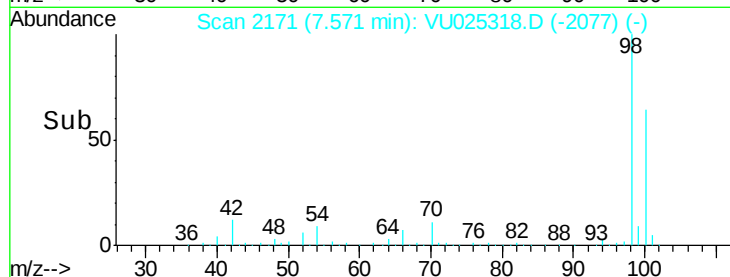
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 45.67 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025318.D

Acq: 11 Jul 2018 16:40

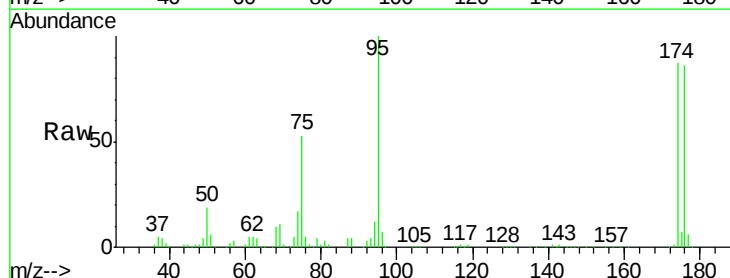
Tgt Ion: 95 Resp: 165440

Ion Ratio Lower Upper

95 100

174 85.9 0.0 172.2

176 84.2 0.0 162.6



Abundance Ion 94.90 (94.60 to 95.60): VU025274.D (-3010) (-)

Ion 173.80 (173.50 to 174.50): VU025274.D (-3010) (-)

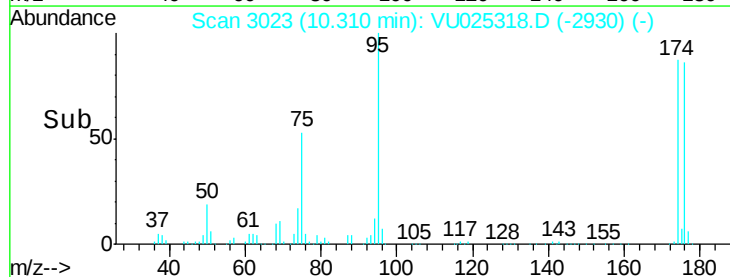
Ion 175.80 (175.50 to 176.50): VU025274.D (-3010) (-)

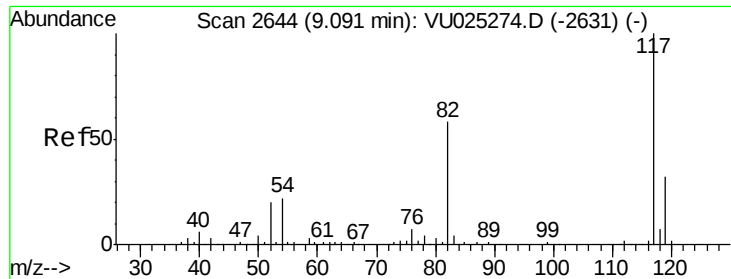
100000

50000

0

Time-->

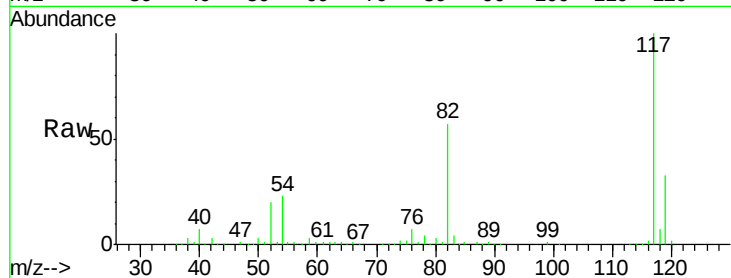




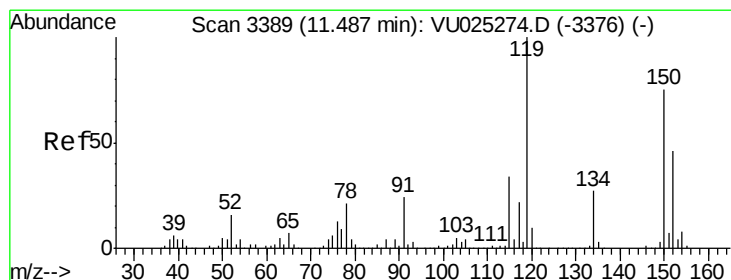
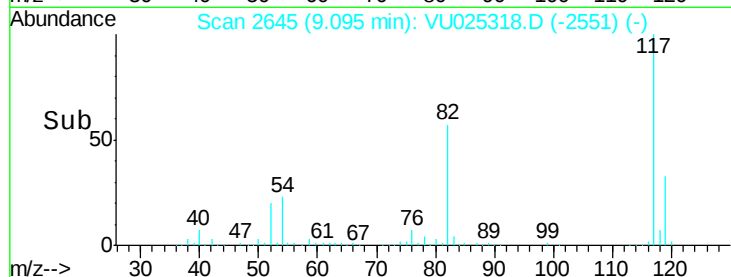
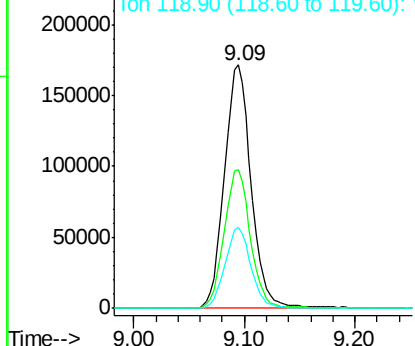
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU025318.D
Acq: 11 Jul 2018 16:40

Instrument :
MSVOA_U
ClientSampleId :
OUTFALL001-180619

Tot Ion:117 Resp: 287925
Ion Ratio Lower Upper
117 100
82 57.0 46.0 69.0
119 33.1 26.0 39.0

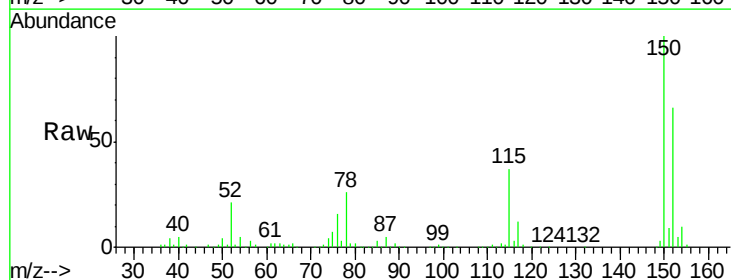


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

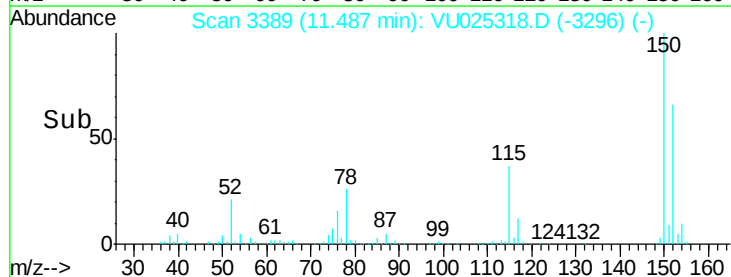
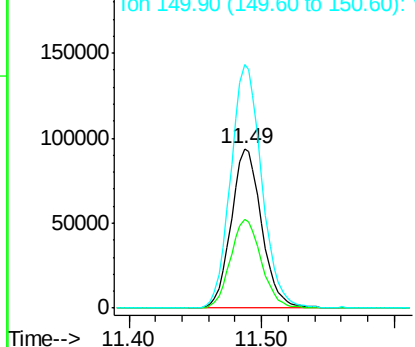


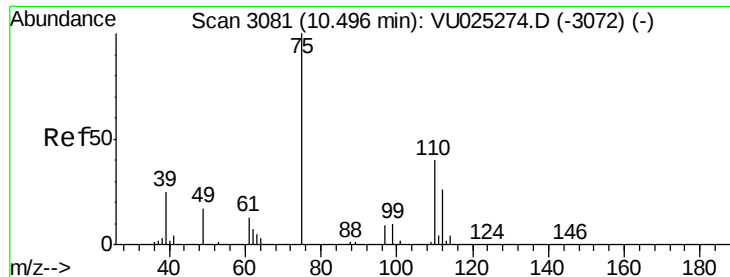
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. 0.00 min
Lab File: VU025318.D
Acq: 11 Jul 2018 16:40

Tgt Ion:152 Resp: 149785
Ion Ratio Lower Upper
152 100
115 56.5 40.1 120.3
150 155.3 0.0 351.4



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: 28.62 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025318.D

Acq: 11 Jul 2018 16:40

Instrument :

MSVOA_U

ClientSampleId :

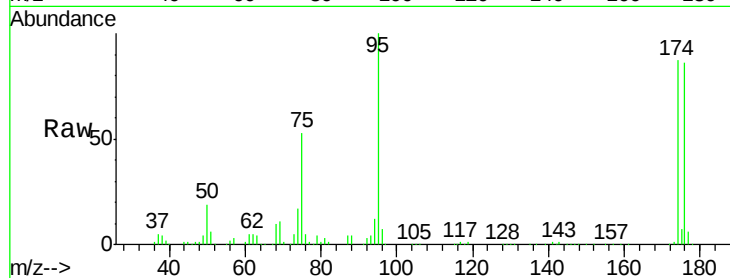
OUTFALL001-180619

Tot Ion: 75 Resp: 87317

Ion Ratio Lower Upper

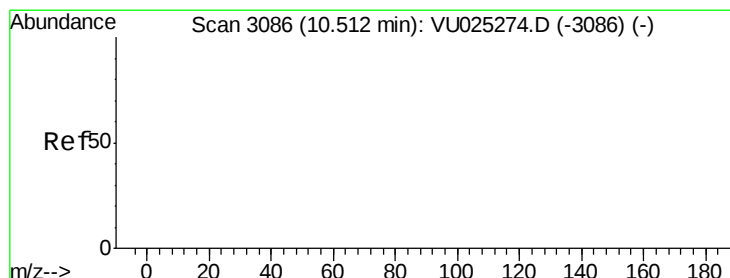
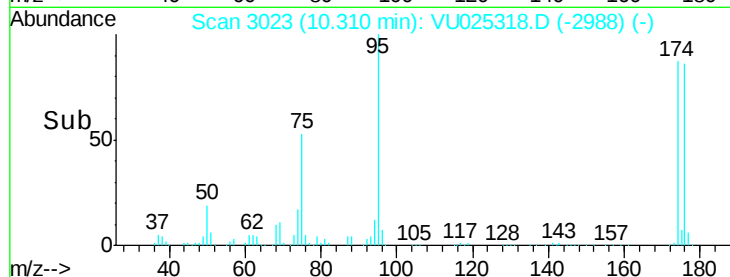
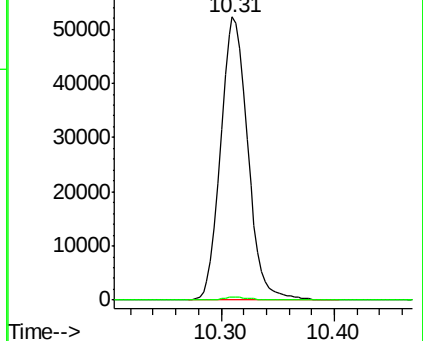
75 100

77 1.0 20.4 61.3#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0



#81

trans-1,4-Dichloro-2-butene

Concen: 73.17 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025318.D

Acq: 11 Jul 2018 16:40

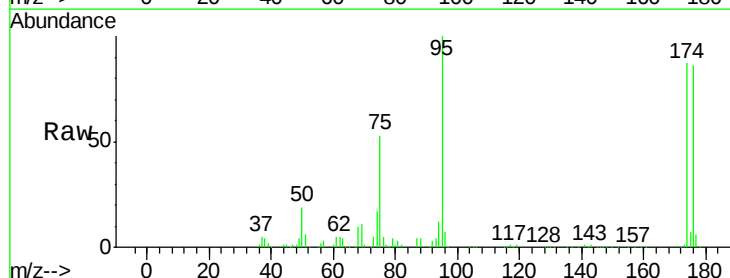
Tgt Ion: 75 Resp: 87317

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

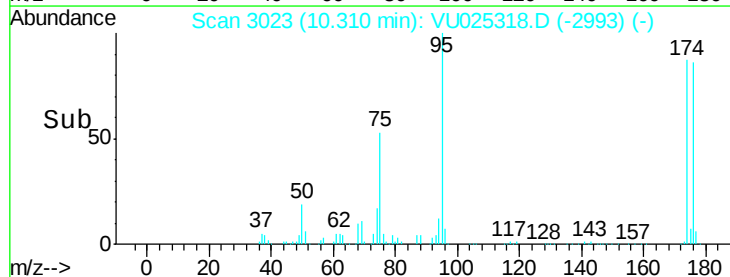
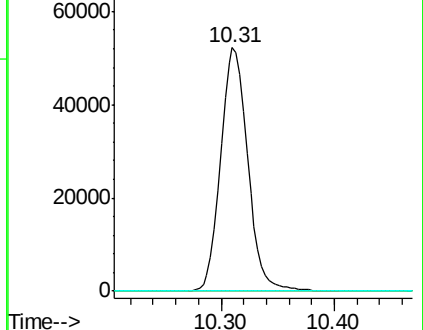
89 0.0 0.0 0.0

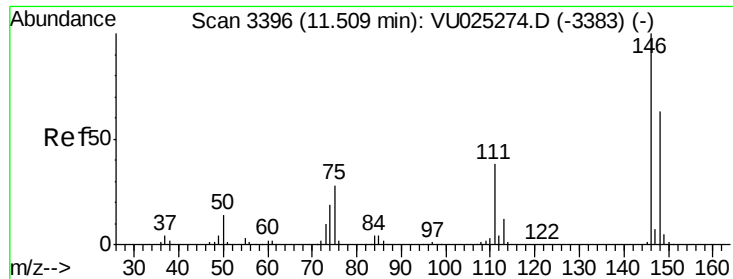


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0





#88

1,4-Dichlorobenzene

Concen: 1.49 ug/l

RT: 11.52 min Scan# 3399

Delta R.T. 0.01 min

Lab File: VU025318.D

Acq: 11 Jul 2018 16:40

Instrument :

MSVOA_U

ClientSampleId :

OUTFALL001-180619

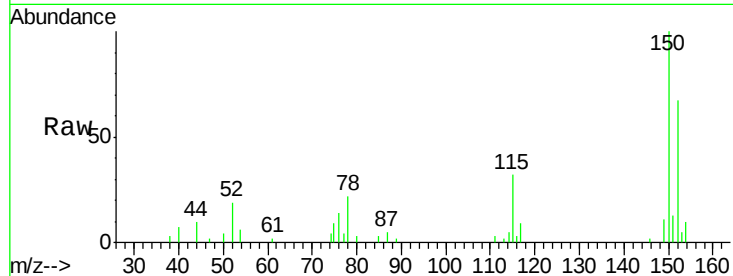
Tot Ion:146 Resp: 20

Ion Ratio Lower Upper

146 100

111 0.0 19.4 58.1#

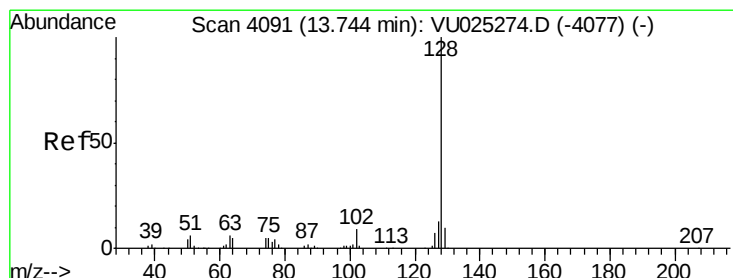
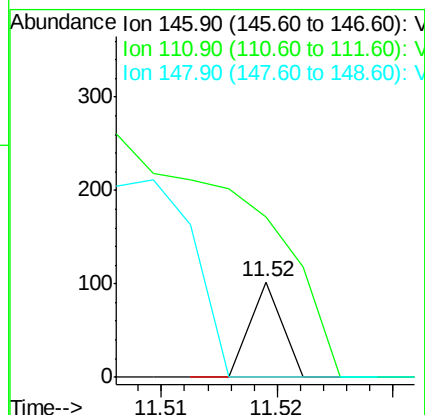
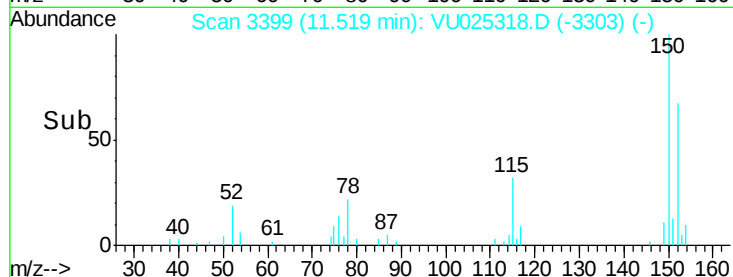
148 0.0 31.7 95.1#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#95

Naphthalene

Concen: 2.42 ug/l

RT: 13.77 min Scan# 4098

Delta R.T. 0.02 min

Lab File: VU025318.D

Acq: 11 Jul 2018 16:40

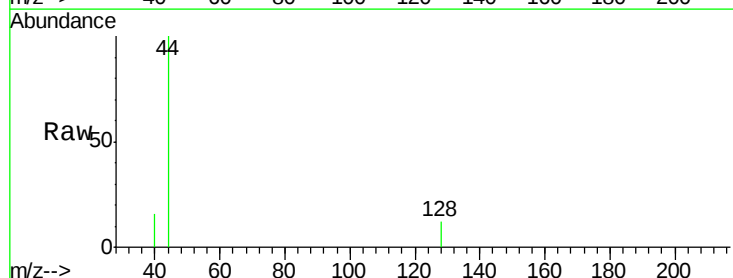
Tgt Ion:128 Resp: 43

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.3 12.5#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

