

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX042318\
 Data File : VX001069.D
 Acq On : 23 Apr 2018 19:44
 Operator : JC/MD
 Sample : J2464-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0446-180418

Quant Time: Apr 24 07:04:55 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X041918W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 20 05:03:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	196768	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	280648	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	251809	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	146469	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	133307	53.44	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.88%	
35) Dibromofluoromethane	5.51	113	101289	47.33	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.66%	
50) Toluene-d8	8.72	98	391680	49.50	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.00%	
62) 4-Bromofluorobenzene	11.14	95	139936	42.14	ug/l	0.00
Spiked Amount 50.000			Recovery	=	84.28%	

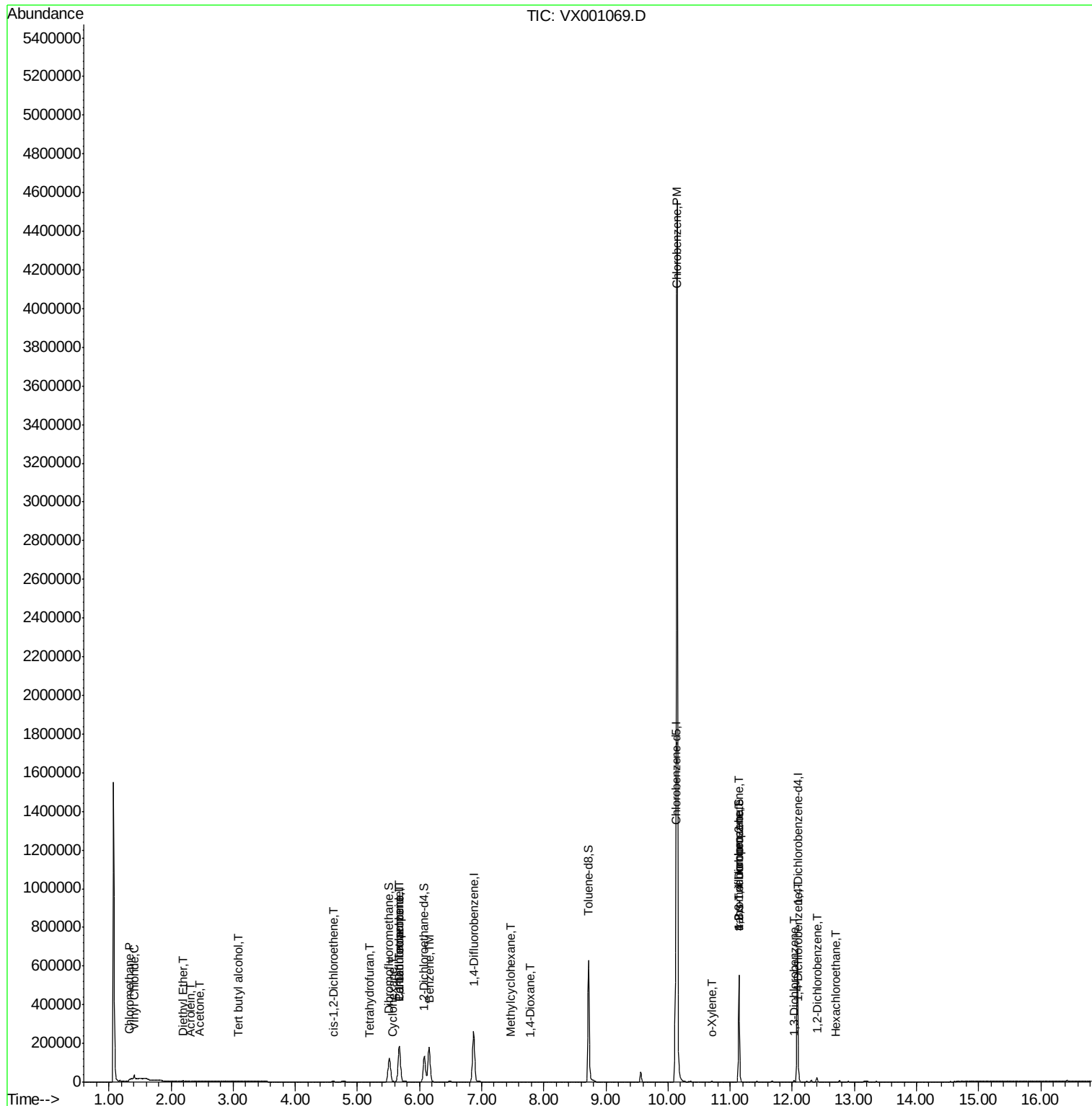
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1214	0.53	ug/l	# 88
4) Vinyl Chloride	1.40	62	14267	6.06	ug/l	# 98
5) Bromomethane	1.66	94	225	Below Cal	#	2
8) Diethyl Ether	2.20	74	766	0.59	ug/l	# 97
11) Tert butyl alcohol	3.08	59	952	2.53	ug/l	# 53
13) Acrolein	2.31	56	73	11.53	ug/l	# 14
16) Acetone	2.45	43	2520	2.68	ug/l	# 82
20) Methylene Chloride	2.86	84	256	Below Cal	#	47
27) cis-1,2-Dichloroethene	4.60	96	2947	1.24	ug/l	# 86
29) Tetrahydrofuran	5.20	42	519	0.56	ug/l	# 48
31) Cyclohexane	5.57	56	1012	0.29	ug/l	# 86
36) 1,1-Dichloropropene	5.67	75	12481	3.78	ug/l	# 49
38) Carbon Tetrachloride	5.68	117	17177	5.14	ug/l	# 15
39) Methylcyclohexane	7.48	83	847	0.22	ug/l	# 89
40) Benzene	6.15	78	214085	23.35	ug/l	# 99
49) 1,4-Dioxane	7.78	88	372	9.05	ug/l	# 83
65) Chlorobenzene	10.15	112	2029911	302.75	ug/l	# 98
69) o-Xylene	10.70	106	980	0.23	ug/l	# 82
76) 1,2,3-Trichloropropane	11.14	75	71194	28.02	ug/l	# 38
81) trans-1,4-Dichloro-2-buten	11.14	75	71194	83.64	ug/l	# 8
87) 1,3-Dichlorobenzene	12.03	146	2375	0.46	ug/l	# 99
88) 1,4-Dichlorobenzene	12.10	146	12647	2.37	ug/l	# 87
90) Hexachloroethane	12.71	117	381	0.30	ug/l	# 1
91) 1,2-Dichlorobenzene	12.40	146	6804	1.35	ug/l	# 94

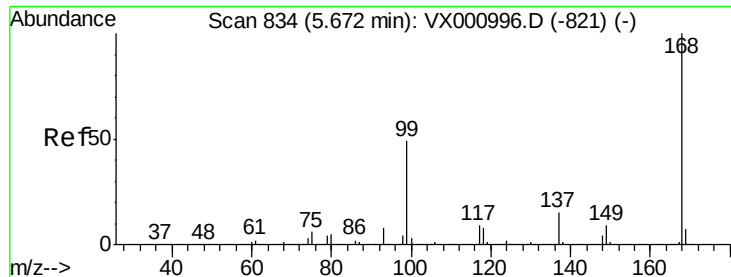
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Apr 20 05:03:28 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX001069.D

Acq: 23 Apr 2018 19:44

Instrument :

MSVOA_X

ClientSampleId :

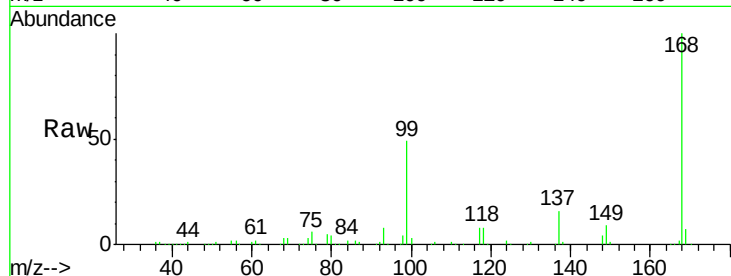
DUP-0446-180418

Tgt Ion:168 Resp: 196768

Ion Ratio Lower Upper

168 100

99 48.6 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

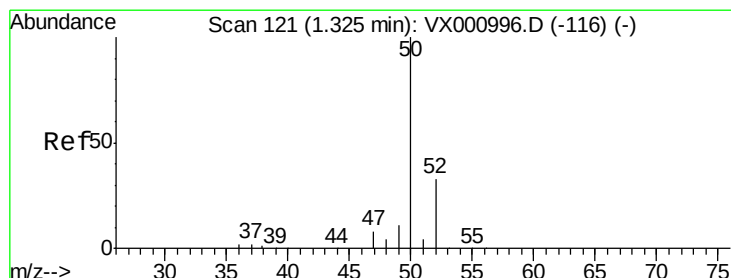
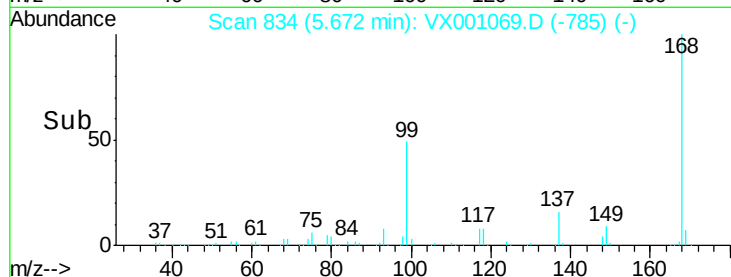
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.53 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX001069.D

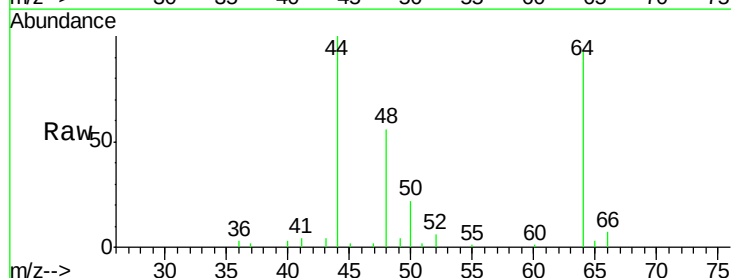
Acq: 23 Apr 2018 19:44

Tgt Ion: 50 Resp: 1214

Ion Ratio Lower Upper

50 100

52 25.9 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

1000

800

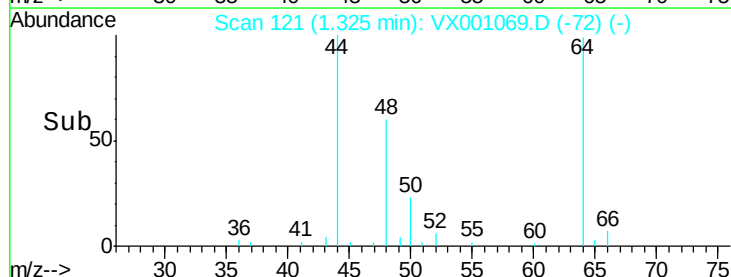
600

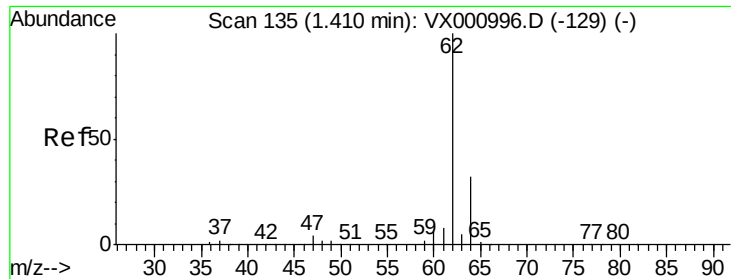
400

200

0

Time-->





#4

Vinyl Chloride

Concen: 6.06 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.01 min

Lab File: VX001069.D

Acq: 23 Apr 2018 19:44

Instrument :

MSVOA_X

ClientSampleId :

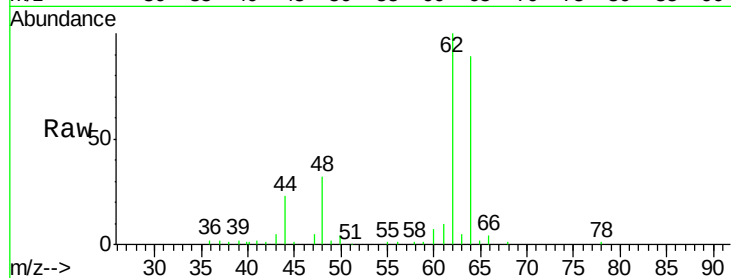
DUP-0446-180418

Tgt Ion: 62 Resp: 14267

Ion Ratio Lower Upper

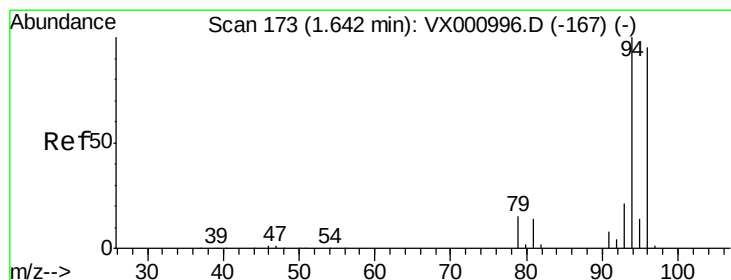
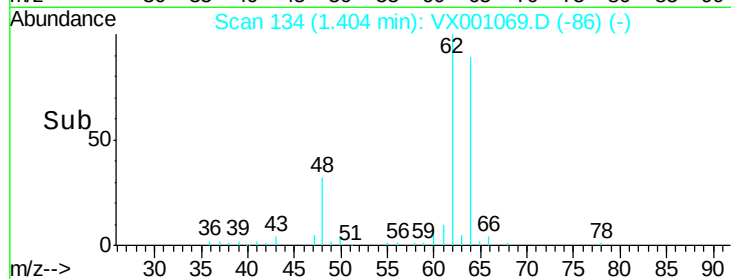
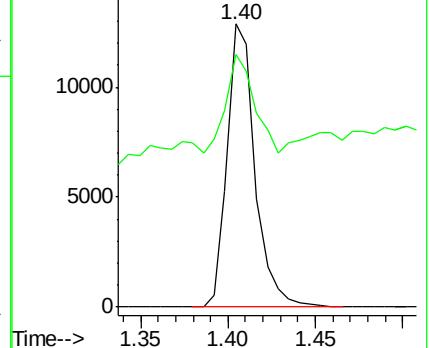
62 100

64 31.1 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX001069.D

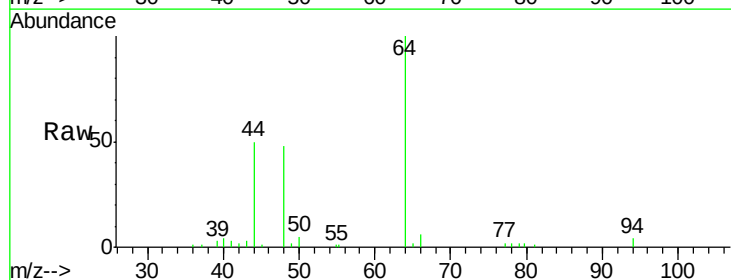
Acq: 23 Apr 2018 19:44

Tgt Ion: 94 Resp: 225

Ion Ratio Lower Upper

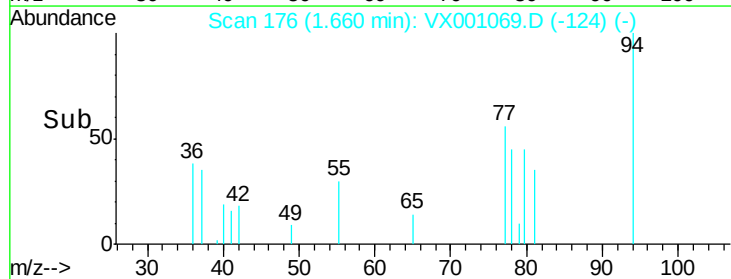
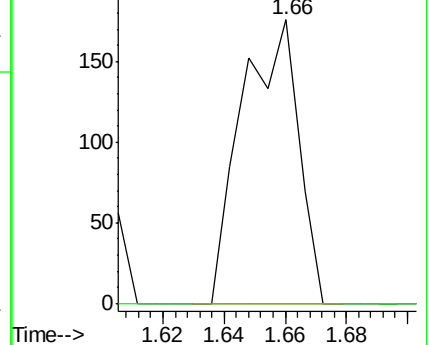
94 100

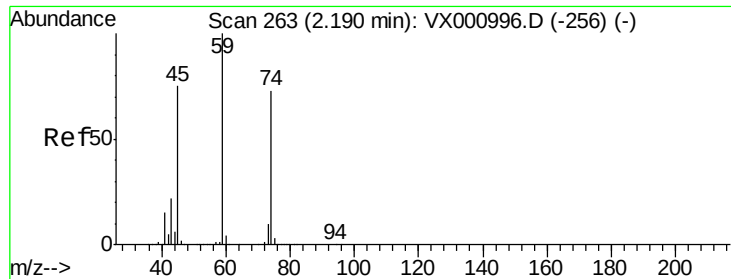
96 0.0 76.0 114.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#8

Diethyl Ether

Concen: 0.59 ug/l

RT: 2.20 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX001069.D

Acq: 23 Apr 2018 19:44

Instrument :

MSVOA_X

ClientSampleId :

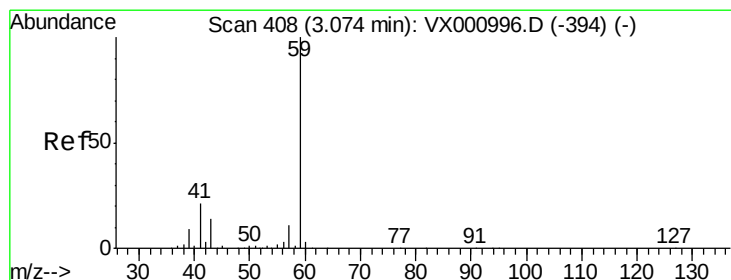
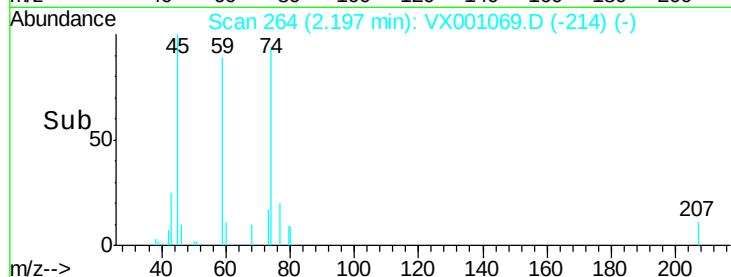
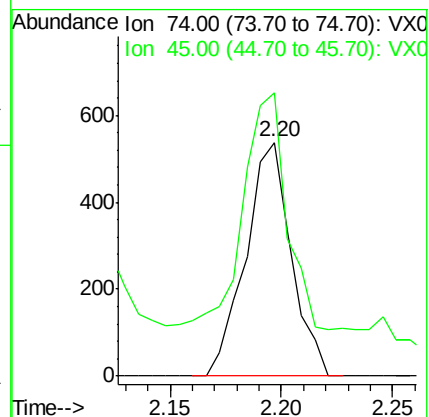
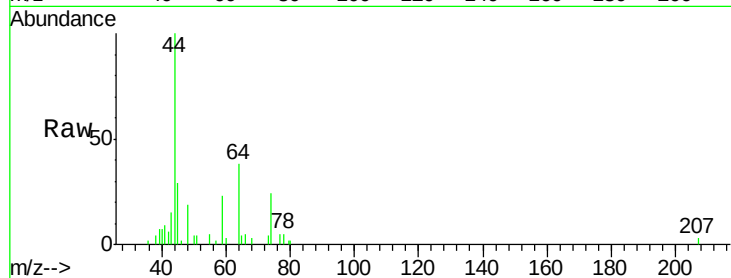
DUP-0446-180418

Tgt Ion: 74 Resp: 766

Ion Ratio Lower Upper

74 100

45 100.7 49.0 147.0



#11

Tert butyl alcohol

Concen: 2.53 ug/l

RT: 3.08 min Scan# 409

Delta R.T. 0.01 min

Lab File: VX001069.D

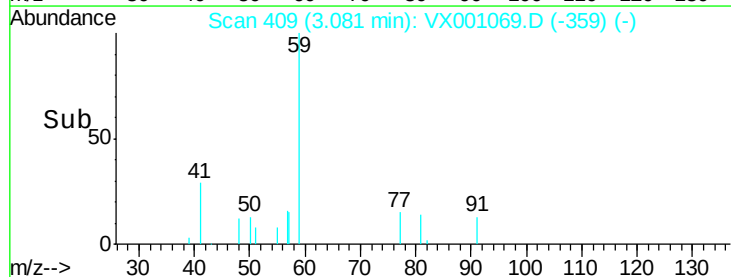
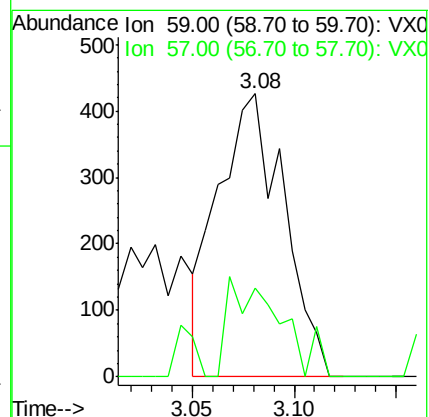
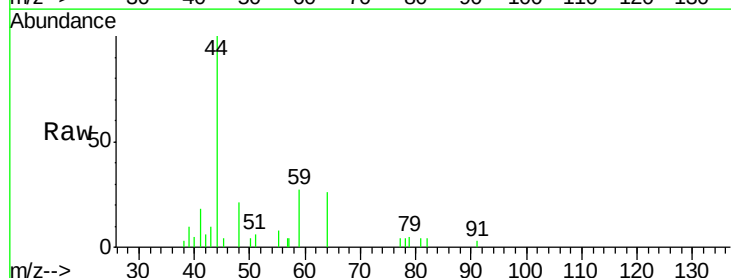
Acq: 23 Apr 2018 19:44

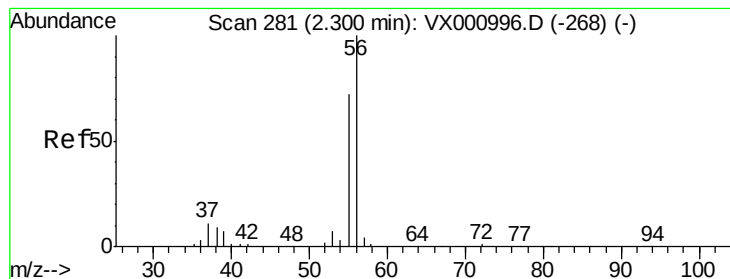
Tgt Ion: 59 Resp: 952

Ion Ratio Lower Upper

59 100

57 28.0 8.3 12.5#





#13

Acrolein

Concen: 11.53 ug/l

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX001069.D

Acq: 23 Apr 2018 19:44

Instrument :

MSVOA_X

ClientSampleId :

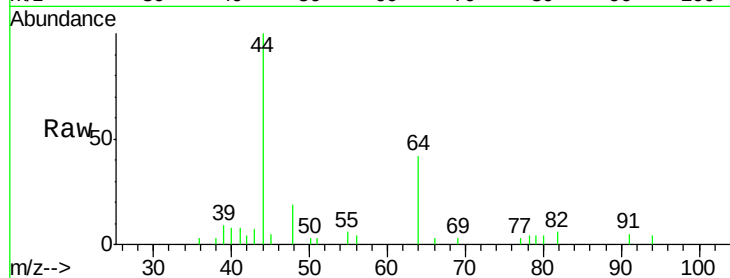
DUP-0446-180418

Tgt Ion: 56 Resp: 73

Ion Ratio Lower Upper

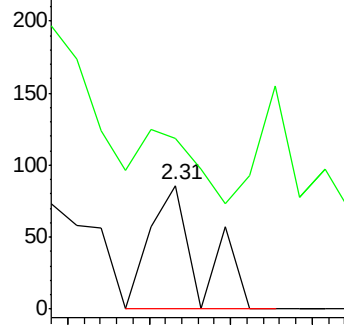
56 100

55 0.0 57.4 86.2#

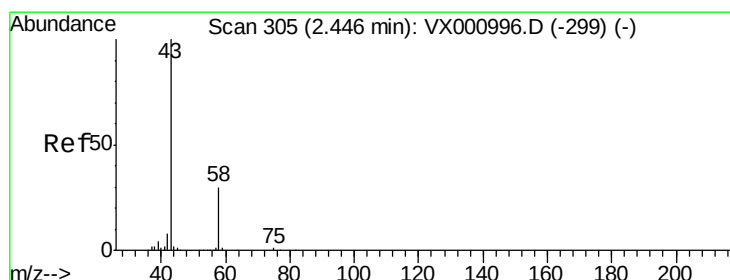
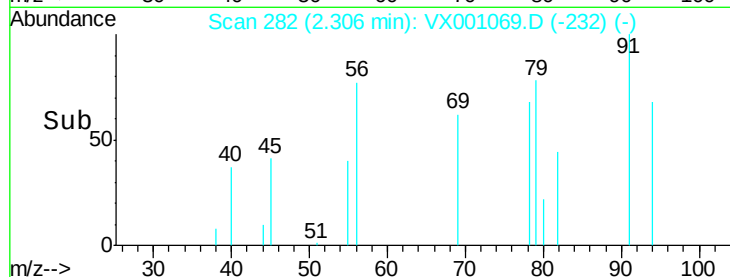


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 2.68 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX001069.D

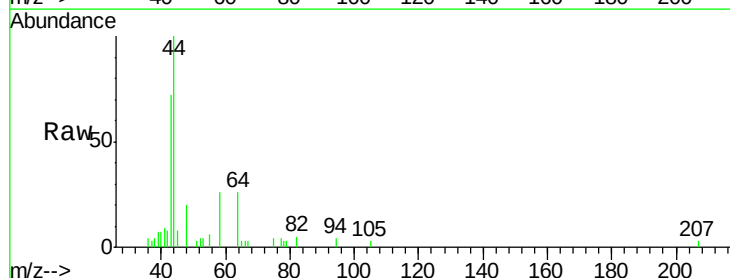
Acq: 23 Apr 2018 19:44

Tgt Ion: 43 Resp: 2520

Ion Ratio Lower Upper

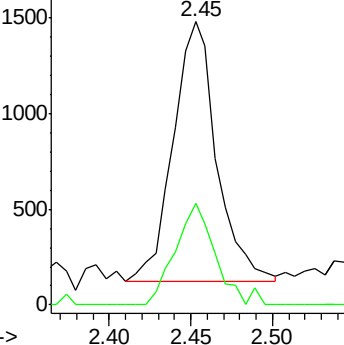
43 100

58 39.2 23.7 35.5#

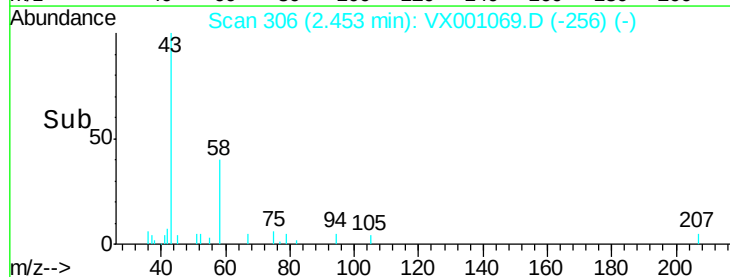


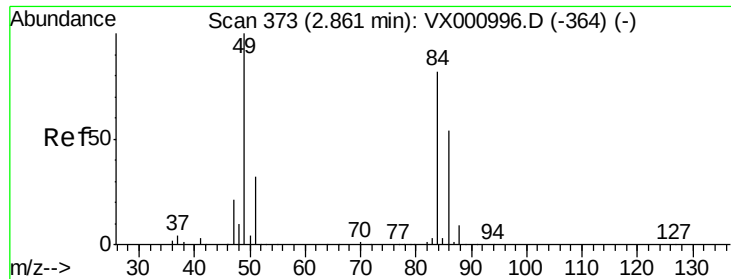
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->





#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX001069.D

Acq: 23 Apr 2018 19:44

Instrument :

MSVOA_X

ClientSampleId :

DUP-0446-180418

Tgt Ion: 84 Resp: 256

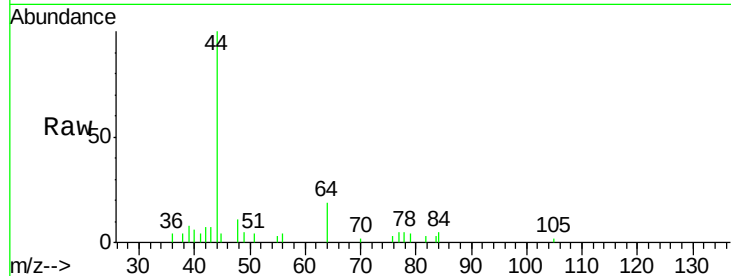
Ion Ratio Lower Upper

84 100

49 66.5 97.1 145.7#

51 48.9 30.8 46.2#

86 0.0 52.3 78.5#

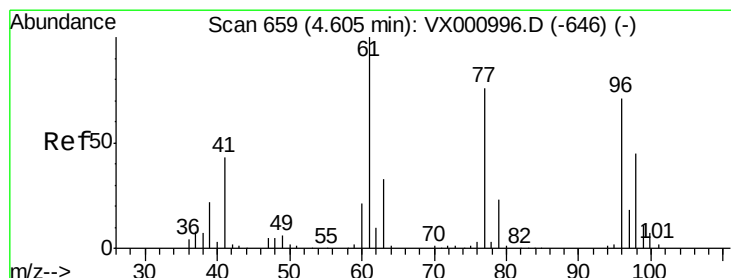
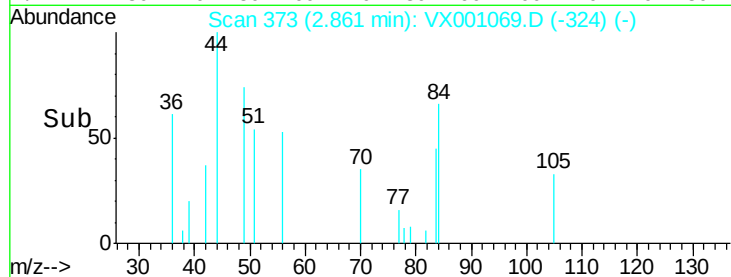
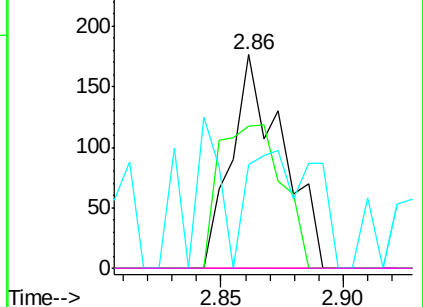


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 1.24 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.00 min

Lab File: VX001069.D

Acq: 23 Apr 2018 19:44

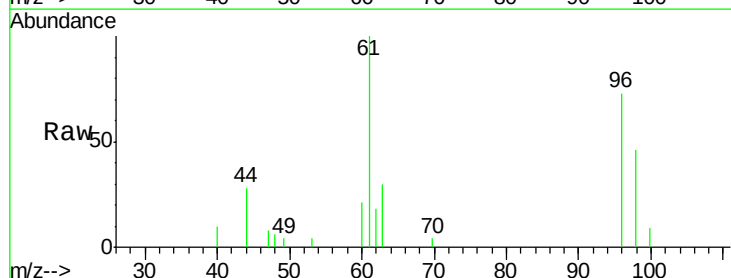
Tgt Ion: 96 Resp: 2947

Ion Ratio Lower Upper

96 100

61 123.5 0.0 297.0

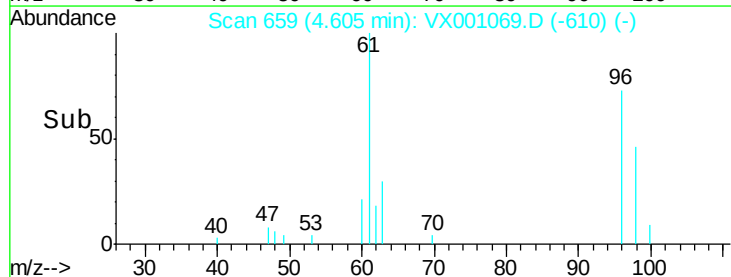
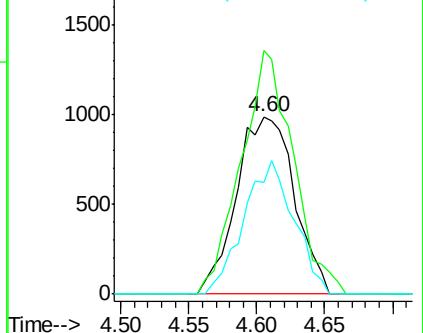
98 64.9 0.0 130.0

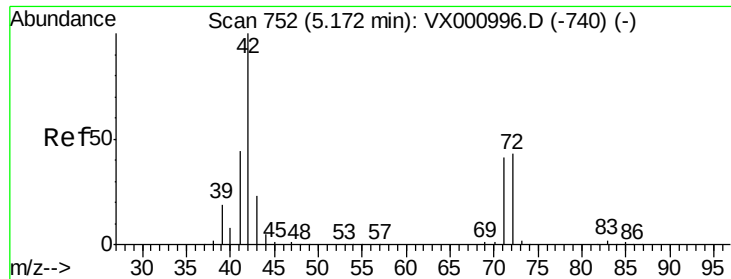


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

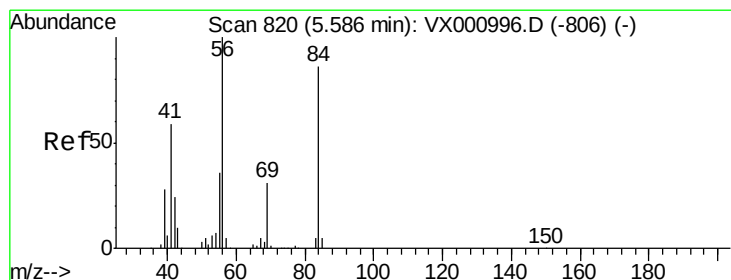
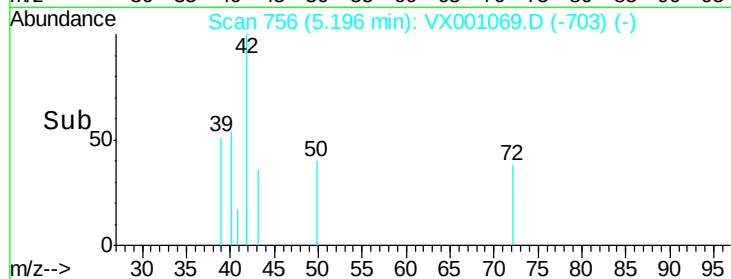
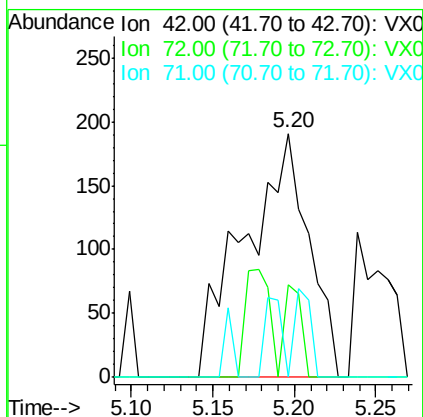
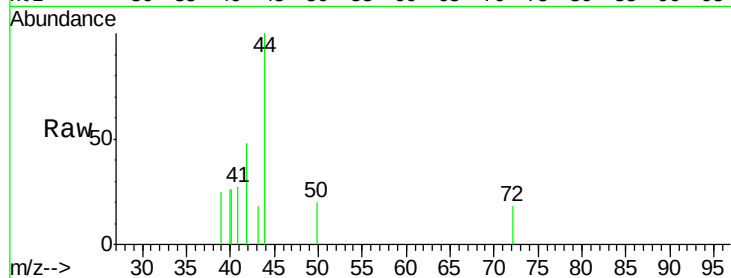




#29
Tetrahydrofuran
Concen: 0.56 ug/l
RT: 5.20 min Scan# 756
Delta R.T. 0.02 min
Lab File: VX001069.D
Acq: 23 Apr 2018 19:44

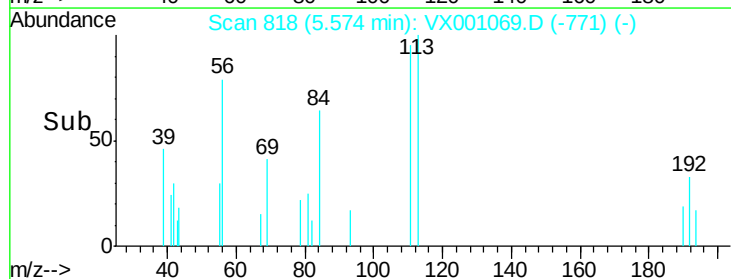
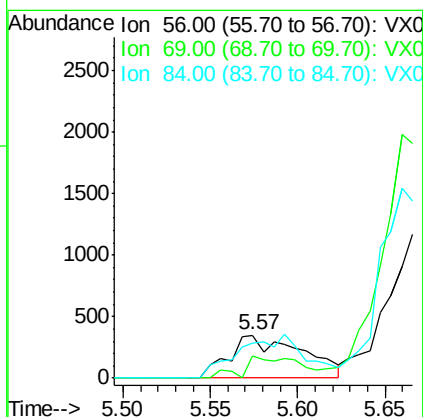
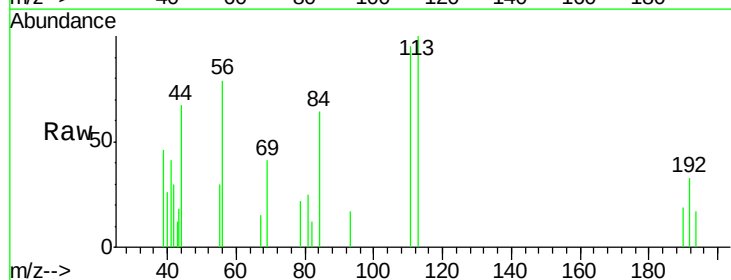
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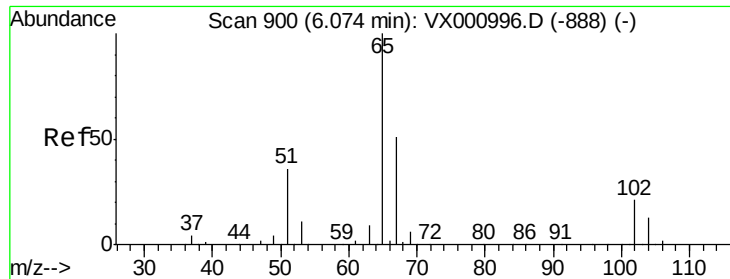
Tgt Ion: 42 Resp: 519
Ion Ratio Lower Upper
42 100
72 9.6 34.6 52.0#
71 9.1 32.6 49.0#



#31
Cyclohexane
Concen: 0.29 ug/l
RT: 5.57 min Scan# 818
Delta R.T. -0.01 min
Lab File: VX001069.D
Acq: 23 Apr 2018 19:44

Tgt Ion: 56 Resp: 1012
Ion Ratio Lower Upper
56 100
69 51.1 24.6 36.8#
84 80.9 69.0 103.6

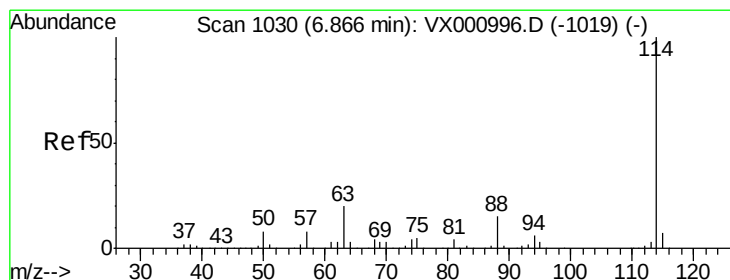
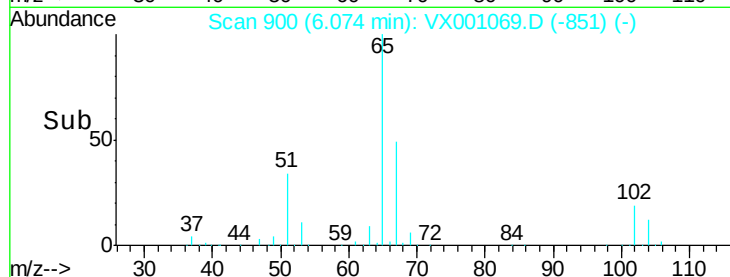
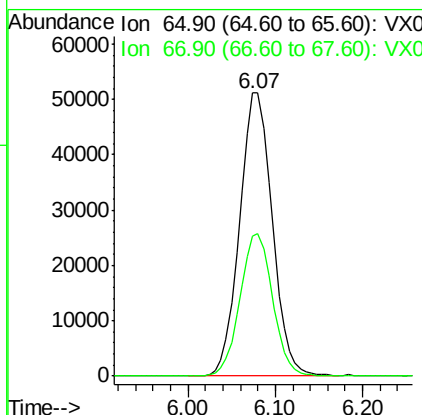
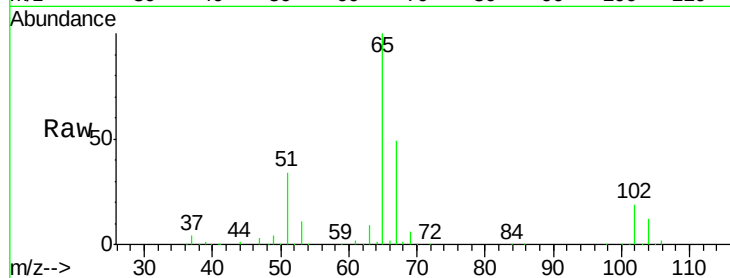




#33
 1,2-Dichloroethane-d4
 Concen: 53.44 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX001069.D
 Acq: 23 Apr 2018 19:44

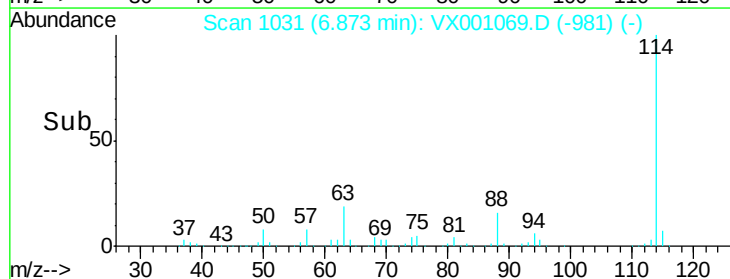
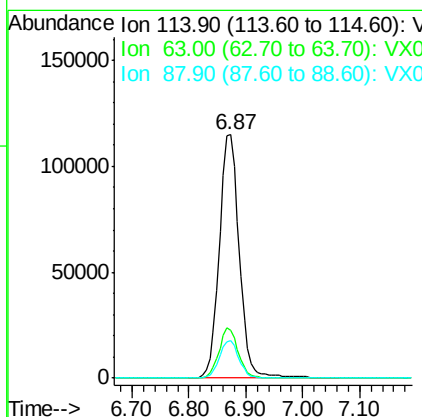
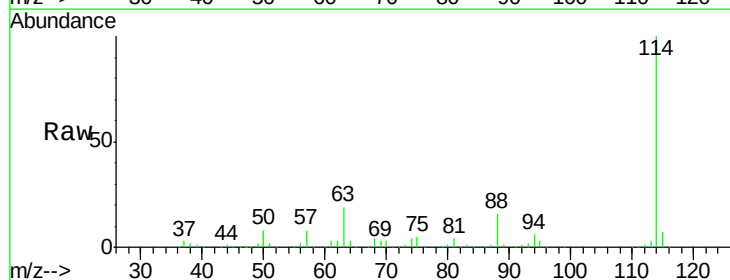
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0446-180418

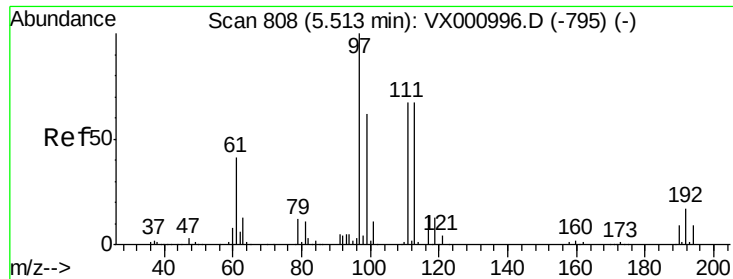
Tgt Ion: 65 Resp: 133307
 Ion Ratio Lower Upper
 65 100
 67 50.2 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1031
 Delta R.T. 0.01 min
 Lab File: VX001069.D
 Acq: 23 Apr 2018 19:44

Tgt Ion: 114 Resp: 280648
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 39.4
 88 15.5 0.0 29.8

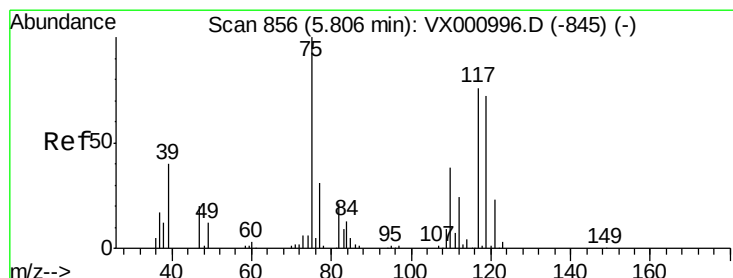
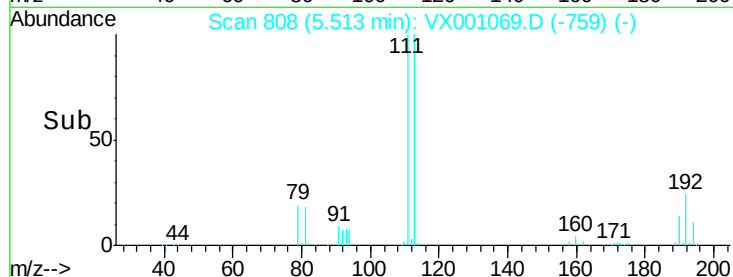
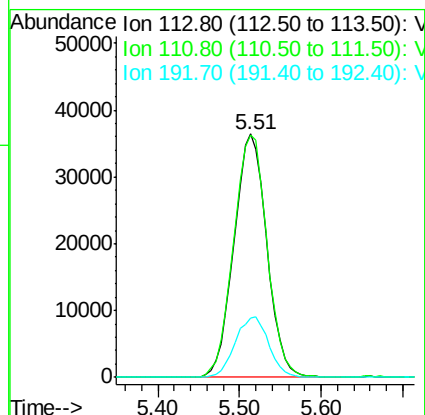
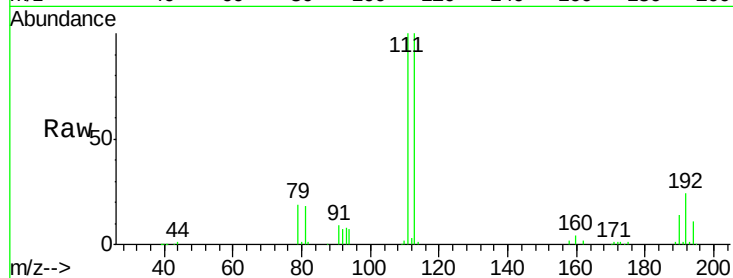




#35
 Dibromofluoromethane
 Concen: 47.33 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. 0.00 min
 Lab File: VX001069.D
 Acq: 23 Apr 2018 19:44

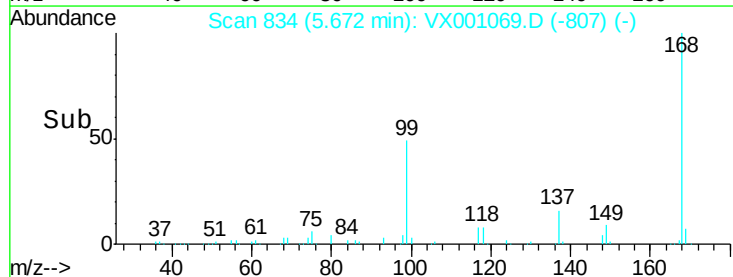
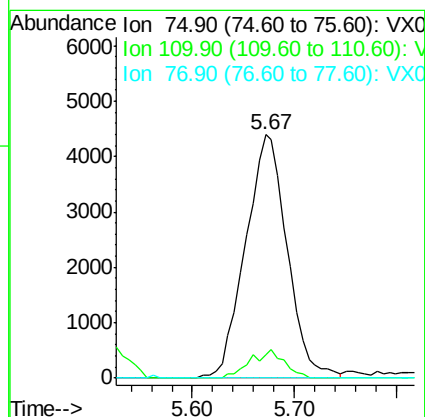
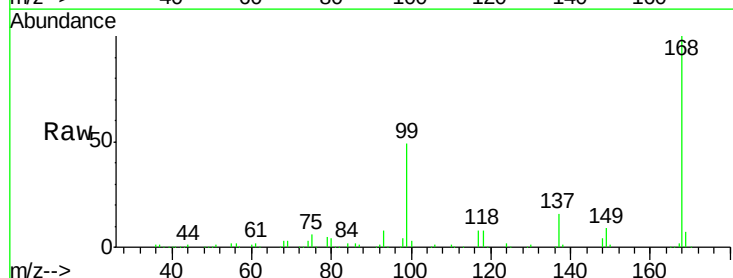
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0446-180418

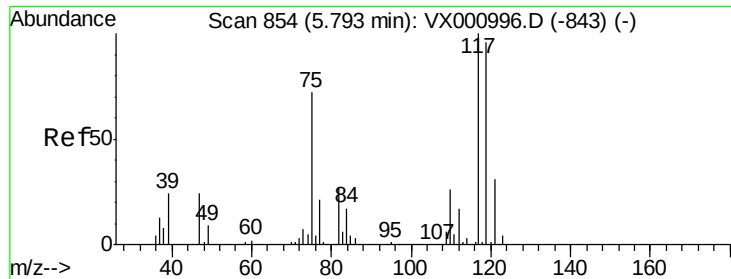
Tgt Ion:113 Resp: 101289
 Ion Ratio Lower Upper
 113 100
 111 101.7 81.4 122.2
 192 25.3 20.4 30.6



#36
 1,1-Dichloropropene
 Concen: 3.78 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX001069.D
 Acq: 23 Apr 2018 19:44

Tgt Ion: 75 Resp: 12481
 Ion Ratio Lower Upper
 75 100
 110 9.6 18.7 56.1#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.14 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.12 min

Lab File: VX001069.D

Acq: 23 Apr 2018 19:44

Instrument :

MSVOA_X

ClientSampleId :

DUP-0446-180418

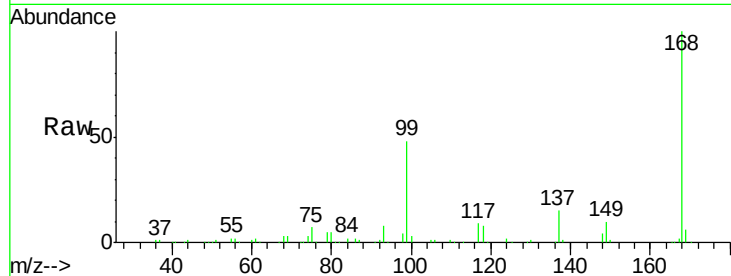
Tgt Ion:117 Resp: 17177

Ion Ratio Lower Upper

117 100

119 3.2 76.5 114.7#

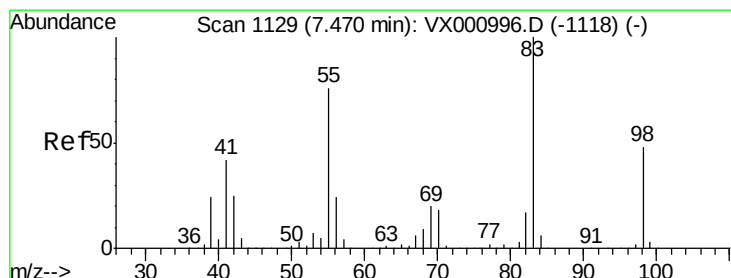
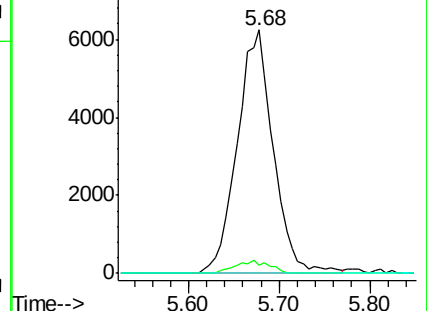
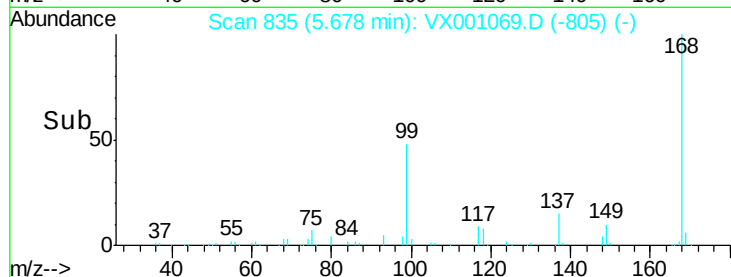
121 0.0 24.5 36.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.22 ug/l

RT: 7.48 min Scan# 1130

Delta R.T. 0.01 min

Lab File: VX001069.D

Acq: 23 Apr 2018 19:44

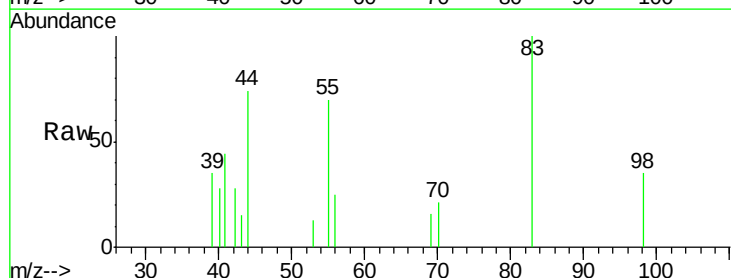
Tgt Ion: 83 Resp: 847

Ion Ratio Lower Upper

83 100

55 70.1 60.6 91.0

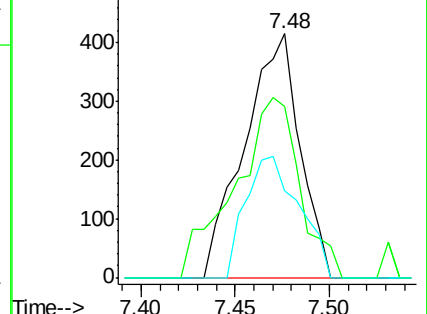
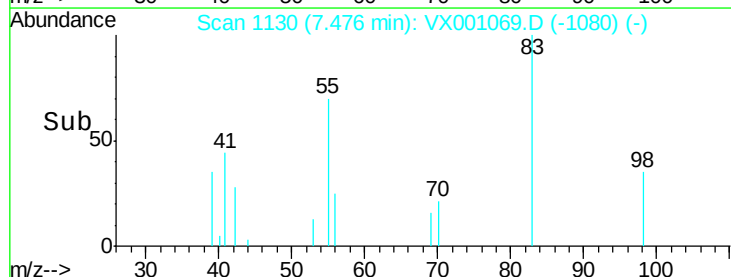
98 35.4 38.2 57.4#

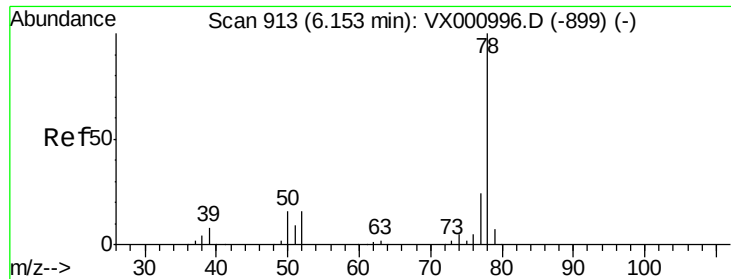


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#40

Benzene

Concen: 23.35 ug/l

RT: 6.15 min Scan# 913

Delta R.T. 0.00 min

Lab File: VX001069.D

Acq: 23 Apr 2018 19:44

Instrument :

MSVOA_X

ClientSampleId :

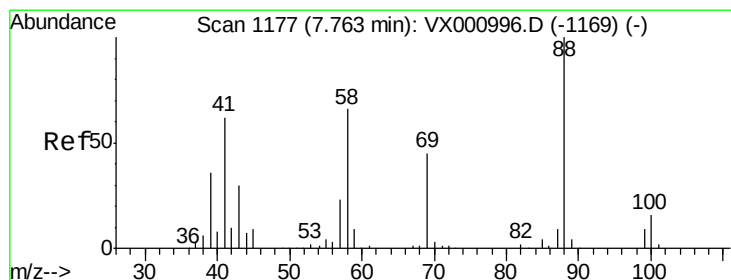
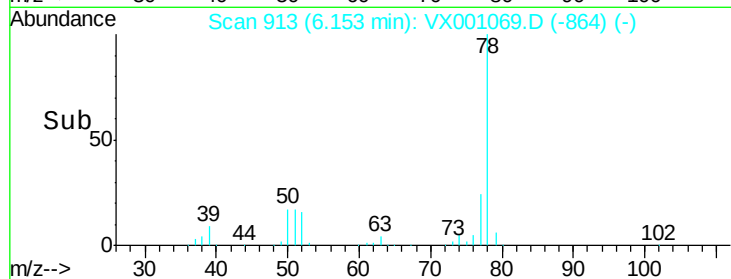
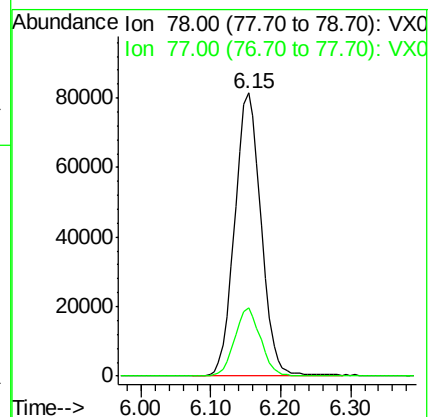
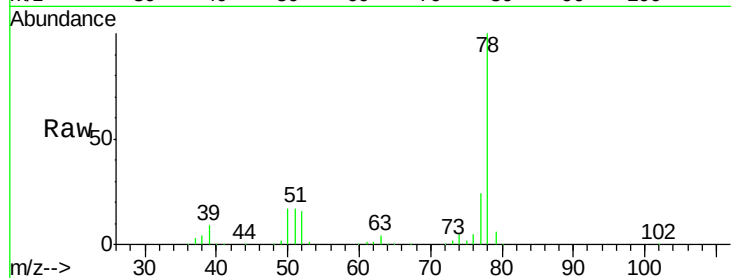
DUP-0446-180418

Tgt Ion: 78 Resp: 214085

Ion Ratio Lower Upper

78 100

77 24.0 18.9 28.3



#49

1,4-Dioxane

Concen: 9.05 ug/l

RT: 7.78 min Scan# 1179

Delta R.T. 0.01 min

Lab File: VX001069.D

Acq: 23 Apr 2018 19:44

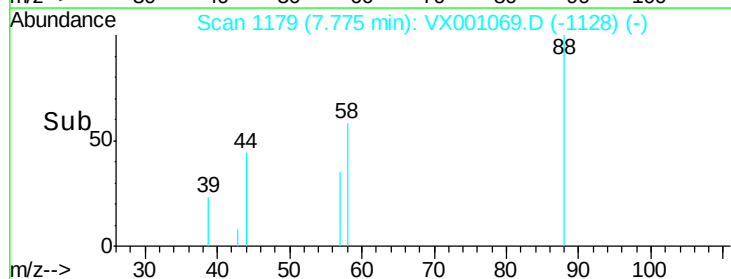
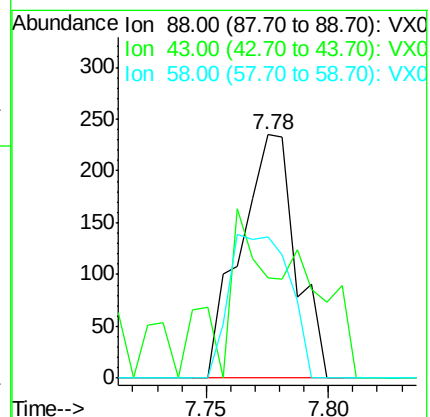
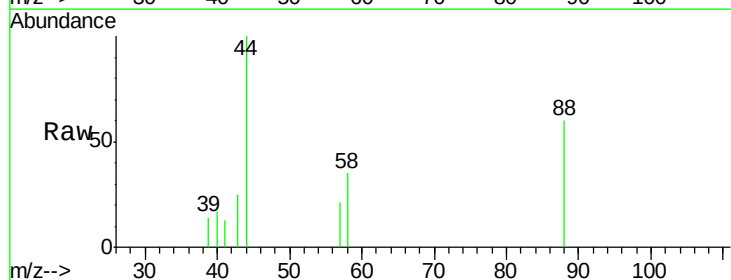
Tgt Ion: 88 Resp: 372

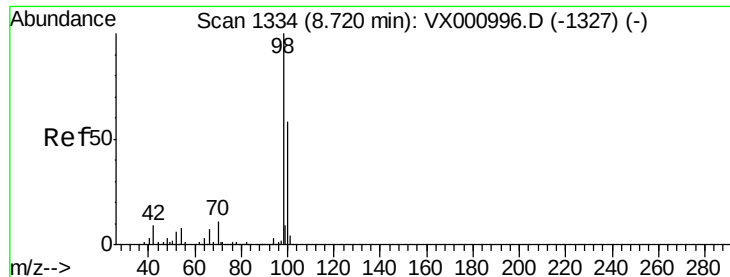
Ion Ratio Lower Upper

88 100

43 59.4 29.2 43.8#

58 64.2 55.0 82.6





#50

Toluene-d8

Concen: 49.50 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX001069.D

Acq: 23 Apr 2018 19:44

Instrument :

MSVOA_X

ClientSampleId :

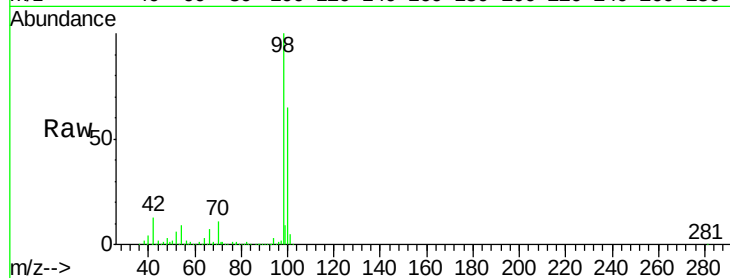
DUP-0446-180418

Tgt Ion: 98 Resp: 391680

Ion Ratio Lower Upper

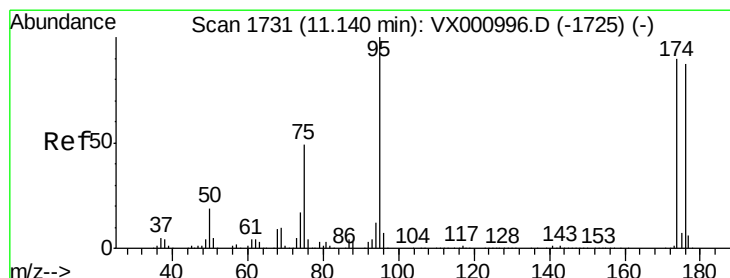
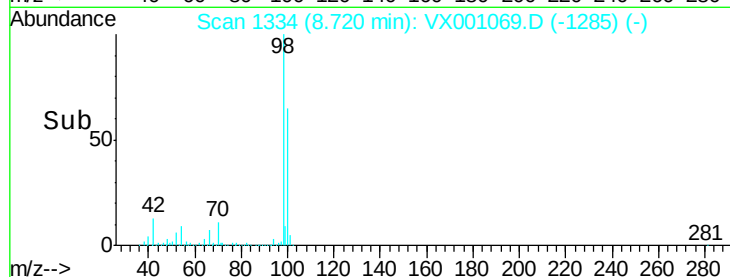
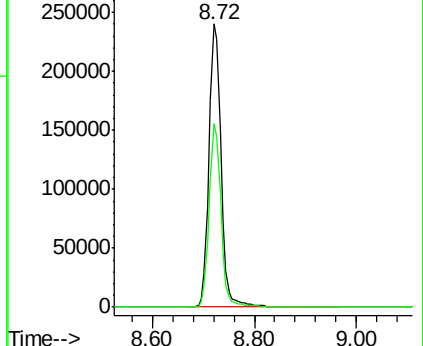
98 100

100 63.8 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 42.14 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX001069.D

Acq: 23 Apr 2018 19:44

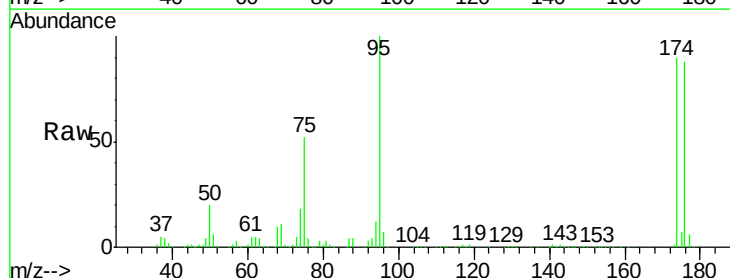
Tgt Ion: 95 Resp: 139936

Ion Ratio Lower Upper

95 100

174 98.0 0.0 198.4

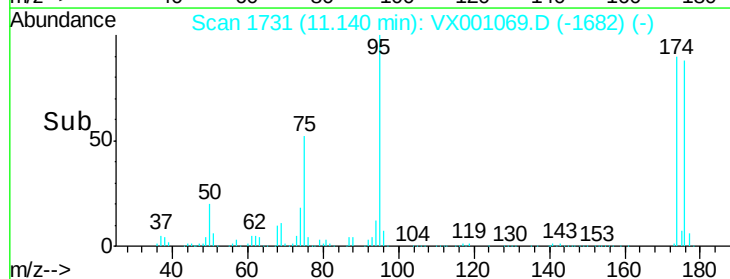
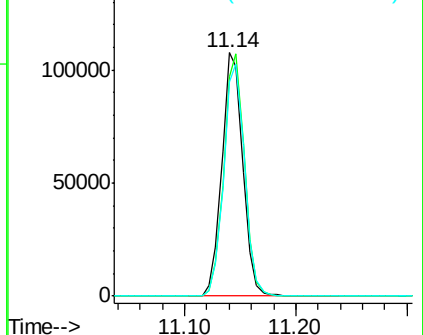
176 95.3 0.0 192.0

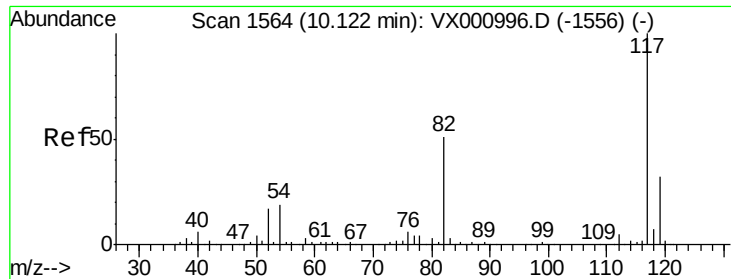


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

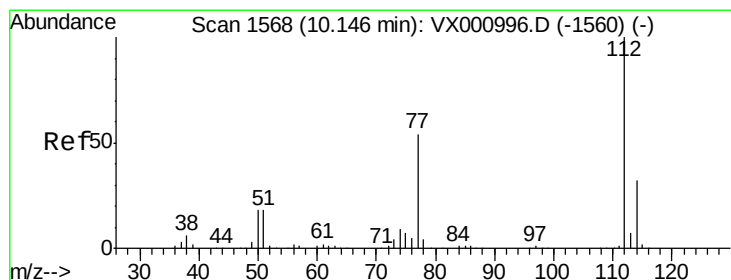
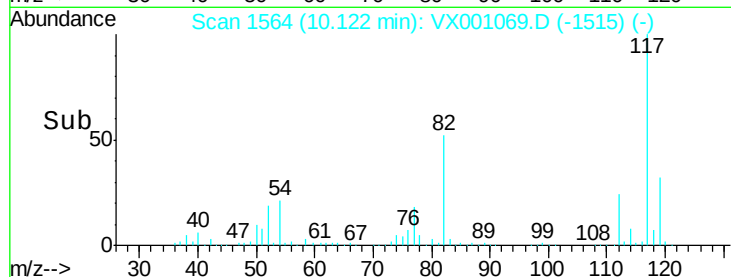
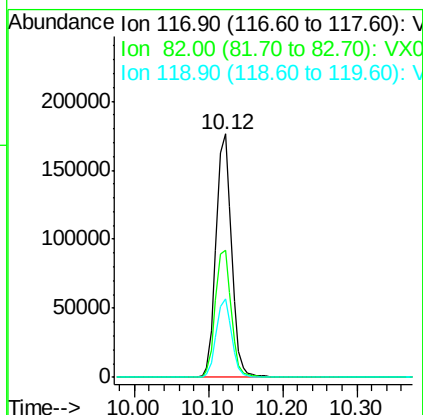
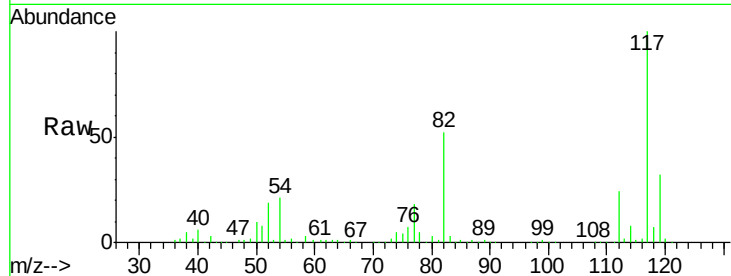




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. 0.00 min
Lab File: VX001069.D
Acq: 23 Apr 2018 19:44

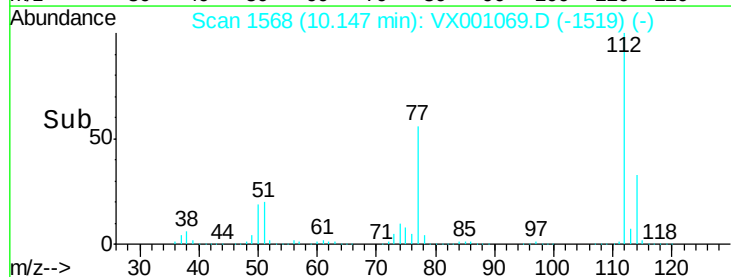
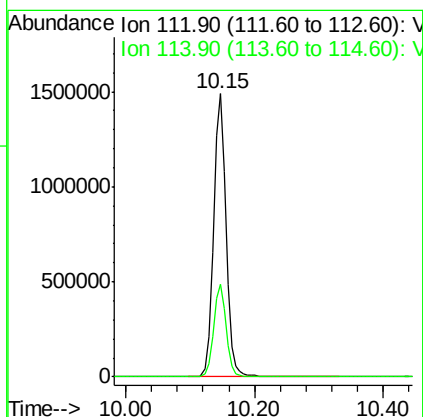
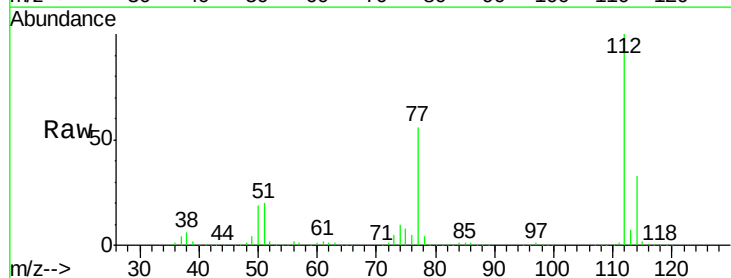
Instrument :
MSVOA_X
ClientSampleId :
DUP-0446-180418

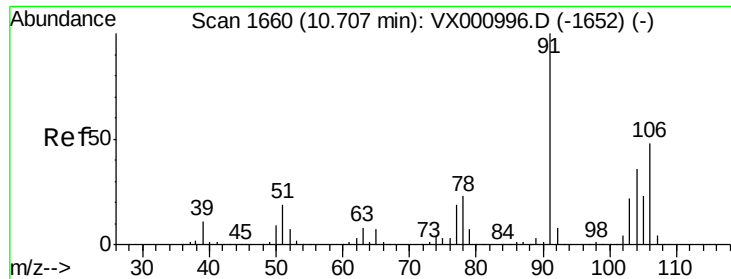
Tgt Ion:117 Resp: 251809
Ion Ratio Lower Upper
117 100
82 52.5 40.6 60.8
119 32.0 26.0 39.0



#65
Chlorobenzene
Concen: 302.75 ug/l
RT: 10.15 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VX001069.D
Acq: 23 Apr 2018 19:44

Tgt Ion:112 Resp: 2029911
Ion Ratio Lower Upper
112 100
114 32.8 25.5 38.3

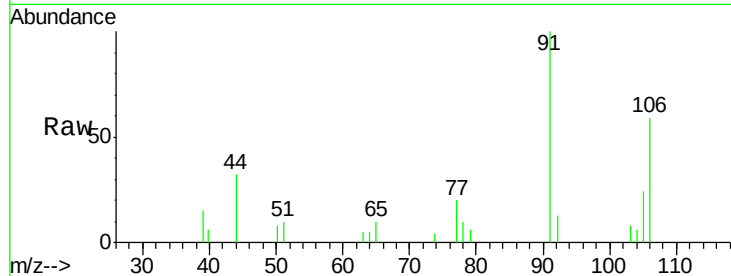




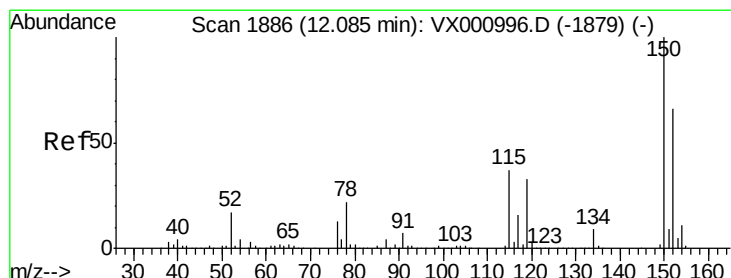
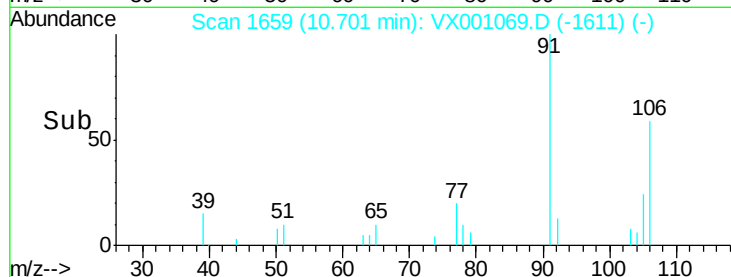
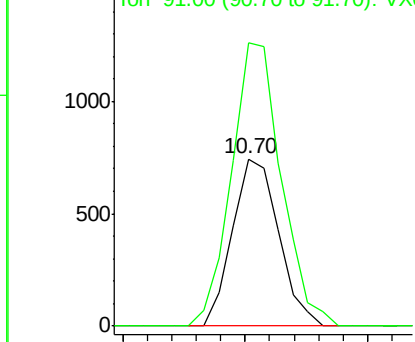
#69
o-Xylene
Concen: 0.23 ug/l
RT: 10.70 min Scan# 1659
Delta R.T. -0.01 min
Lab File: VX001069.D
Acq: 23 Apr 2018 19:44

Instrument :
MSVOA_X
ClientSampleId :
DUP-0446-180418

Tgt Ion:106 Resp: 980
Ion Ratio Lower Upper
106 100
91 182.3 105.1 315.1

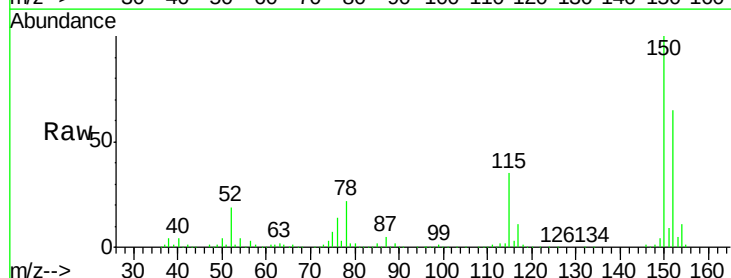


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

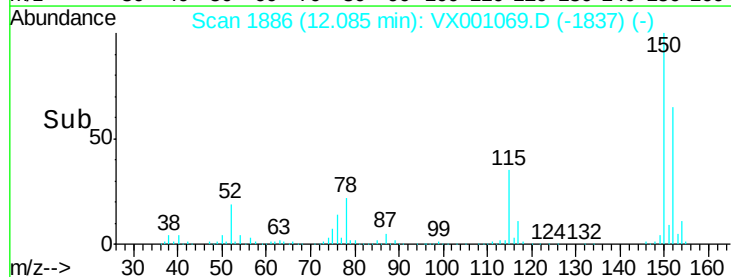
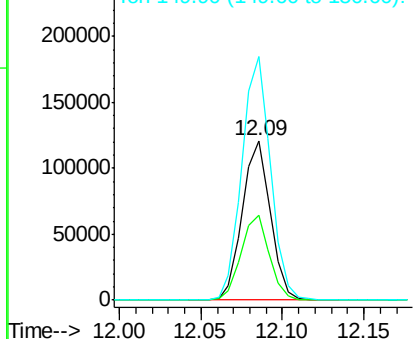


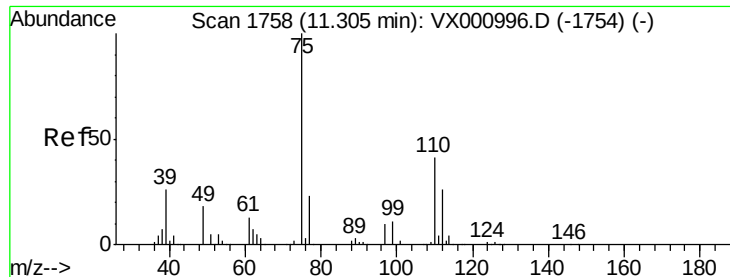
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VX001069.D
Acq: 23 Apr 2018 19:44

Tgt Ion:152 Resp: 146469
Ion Ratio Lower Upper
152 100
115 53.0 38.2 114.6
150 155.1 0.0 350.4



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

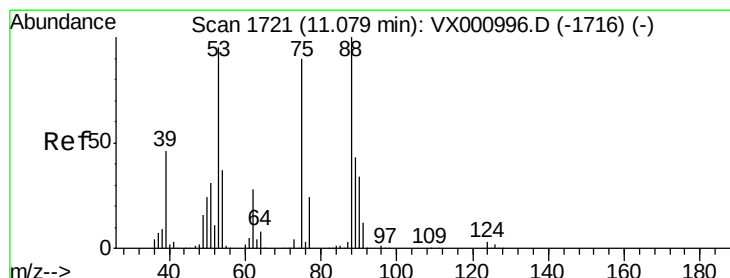
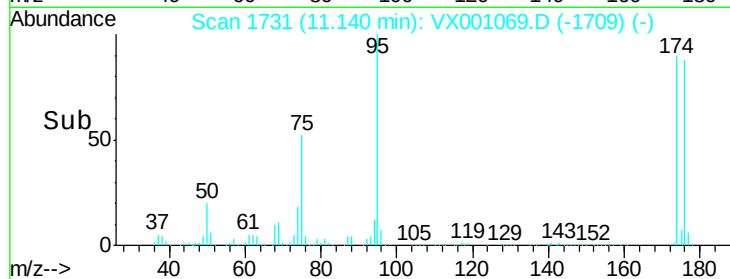
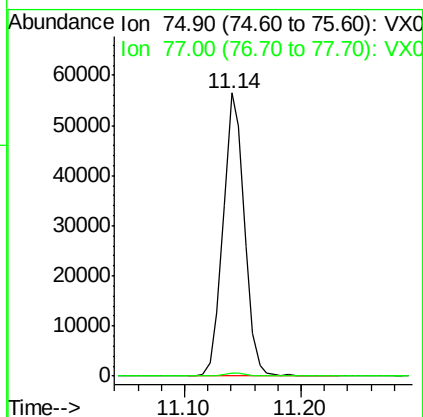
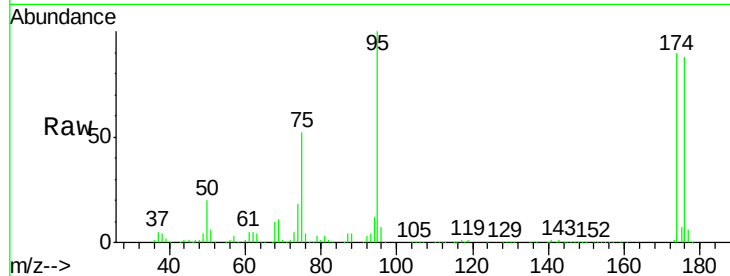




#76
 1,2,3-Trichloropropane
 Concen: 28.02 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX001069.D
 Acq: 23 Apr 2018 19:44

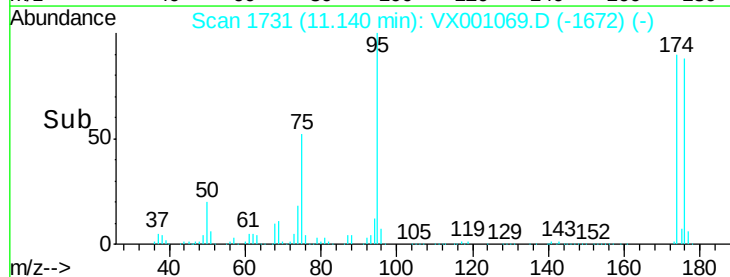
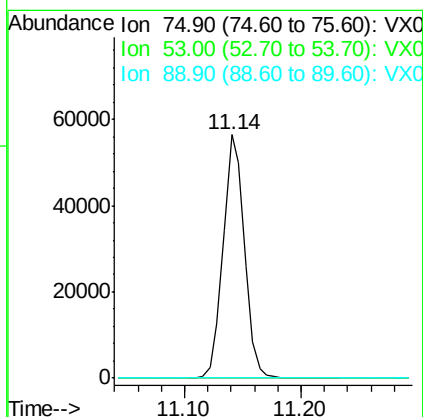
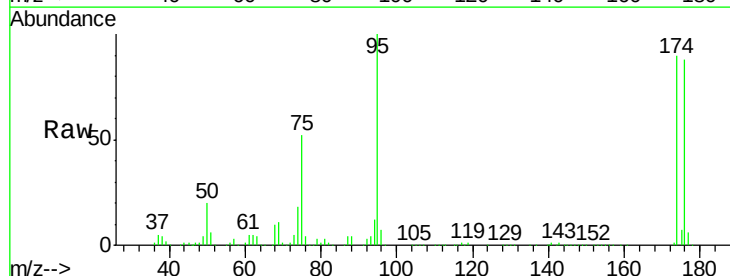
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0446-180418

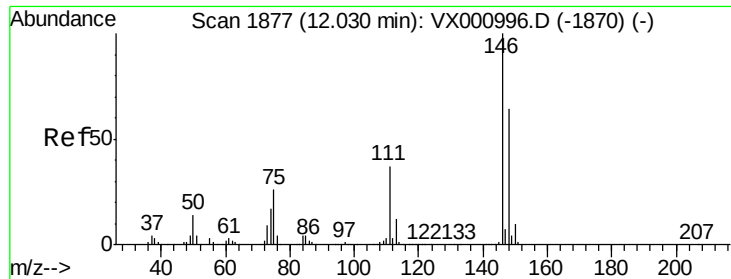
Tgt Ion: 75 Resp: 71194
 Ion Ratio Lower Upper
 75 100
 77 1.1 19.6 58.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 83.64 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX001069.D
 Acq: 23 Apr 2018 19:44

Tgt Ion: 75 Resp: 71194
 Ion Ratio Lower Upper
 75 100
 53 0.0 83.4 125.2#
 89 0.0 39.7 59.5#

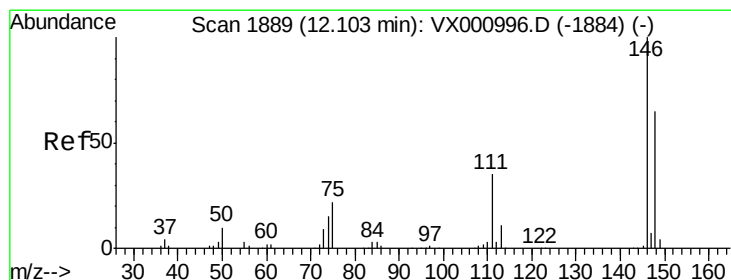
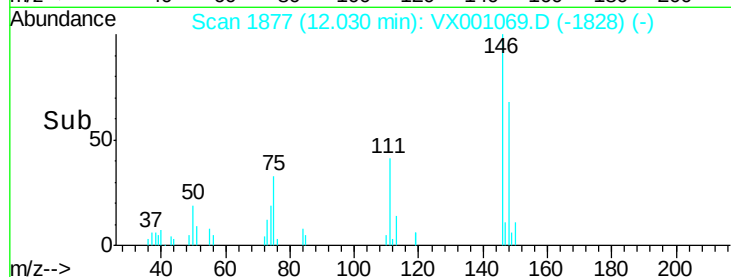
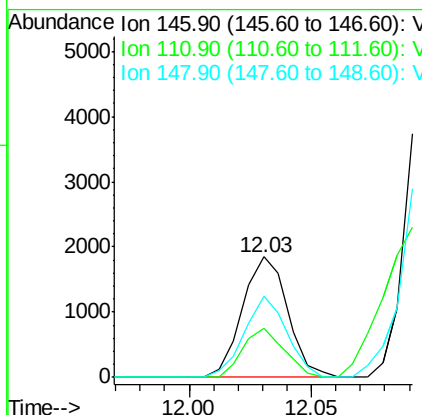
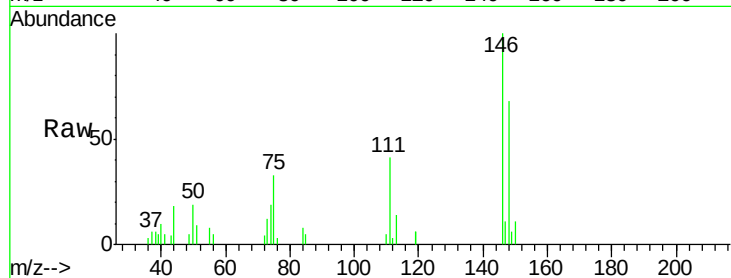




#87
 1,3-Dichlorobenzene
 Concen: 0.46 ug/l
 RT: 12.03 min Scan# 1877
 Delta R.T. 0.00 min
 Lab File: VX001069.D
 Acq: 23 Apr 2018 19:44

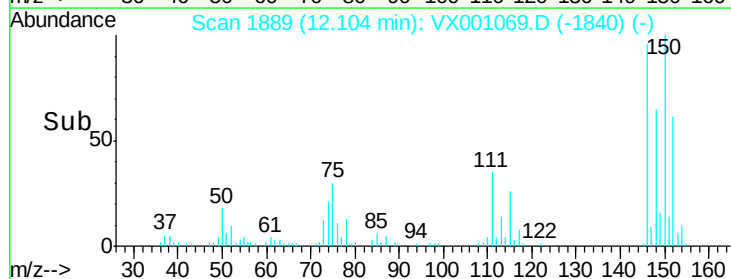
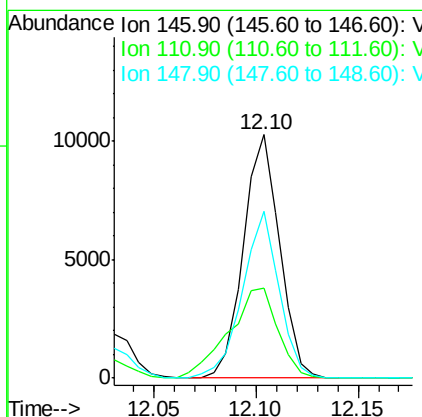
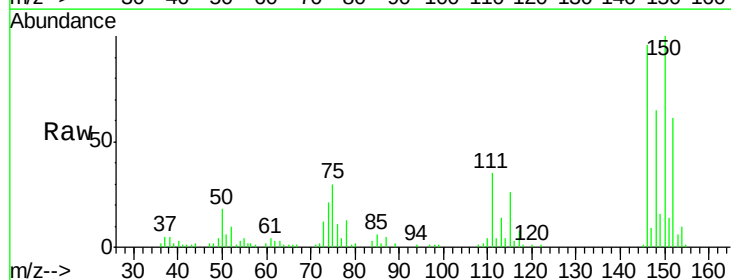
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0446-180418

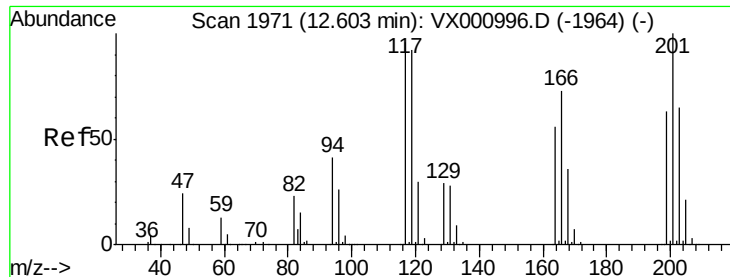
Tgt Ion:146 Resp: 2375
 Ion Ratio Lower Upper
 146 100
 111 37.3 18.3 54.8
 148 63.5 32.2 96.6



#88
 1,4-Dichlorobenzene
 Concen: 2.37 ug/l
 RT: 12.10 min Scan# 1889
 Delta R.T. 0.00 min
 Lab File: VX001069.D
 Acq: 23 Apr 2018 19:44

Tgt Ion:146 Resp: 12647
 Ion Ratio Lower Upper
 146 100
 111 50.0 18.0 54.0
 148 69.7 32.4 97.0





#90

Hexachloroethane

Concen: 0.30 ug/l

RT: 12.71 min Scan# 1988

Delta R.T. 0.10 min

Lab File: VX001069.D

Acq: 23 Apr 2018 19:44

Instrument :

MSVOA_X

ClientSampleId :

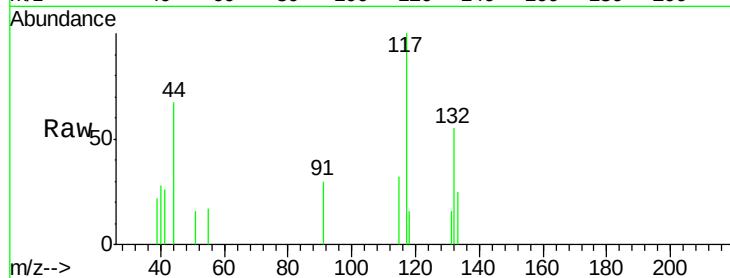
DUP-0446-180418

Tgt Ion:117 Resp: 381

Ion Ratio Lower Upper

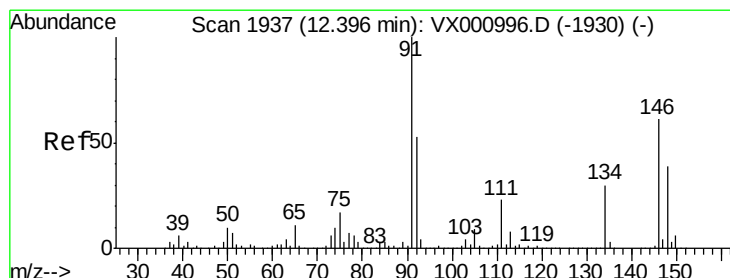
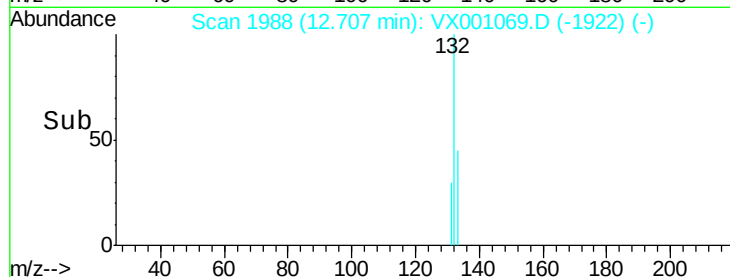
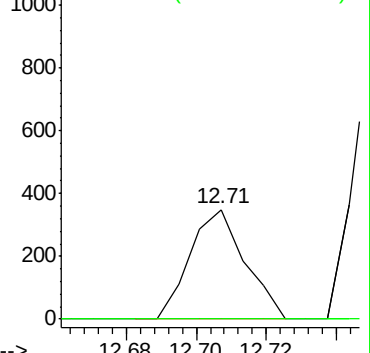
117 100

201 0.0 52.3 157.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#91

1,2-Dichlorobenzene

Concen: 1.35 ug/l

RT: 12.40 min Scan# 1937

Delta R.T. 0.00 min

Lab File: VX001069.D

Acq: 23 Apr 2018 19:44

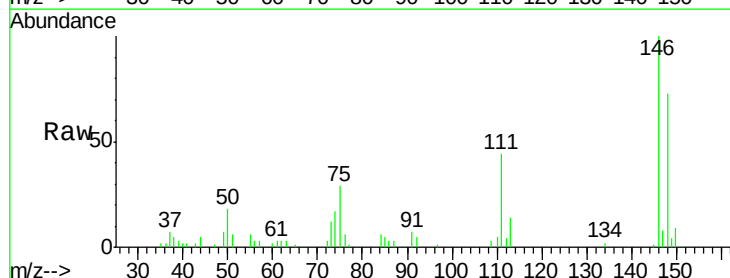
Tgt Ion:146 Resp: 6804

Ion Ratio Lower Upper

146 100

111 40.8 18.6 56.0

148 69.5 32.3 96.8



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

