

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX010919\
 Data File : VX006963.D
 Acq On : 09 Jan 2019 14:20
 Operator : JC/MD
 Sample : K1098-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 10 00:55:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	659714	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1001018	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	911467	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	438981	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	342226	49.64	ug/l	0.00
Spiked Amount			Recovery	=	99.28%	
35) Dibromofluoromethane	5.50	113	311985	48.67	ug/l	0.00
Spiked Amount			Recovery	=	97.34%	
50) Toluene-d8	8.71	98	1181167	50.34	ug/l	0.00
Spiked Amount			Recovery	=	100.68%	
62) 4-Bromofluorobenzene	11.13	95	409953	50.12	ug/l	0.00
Spiked Amount			Recovery	=	100.24%	

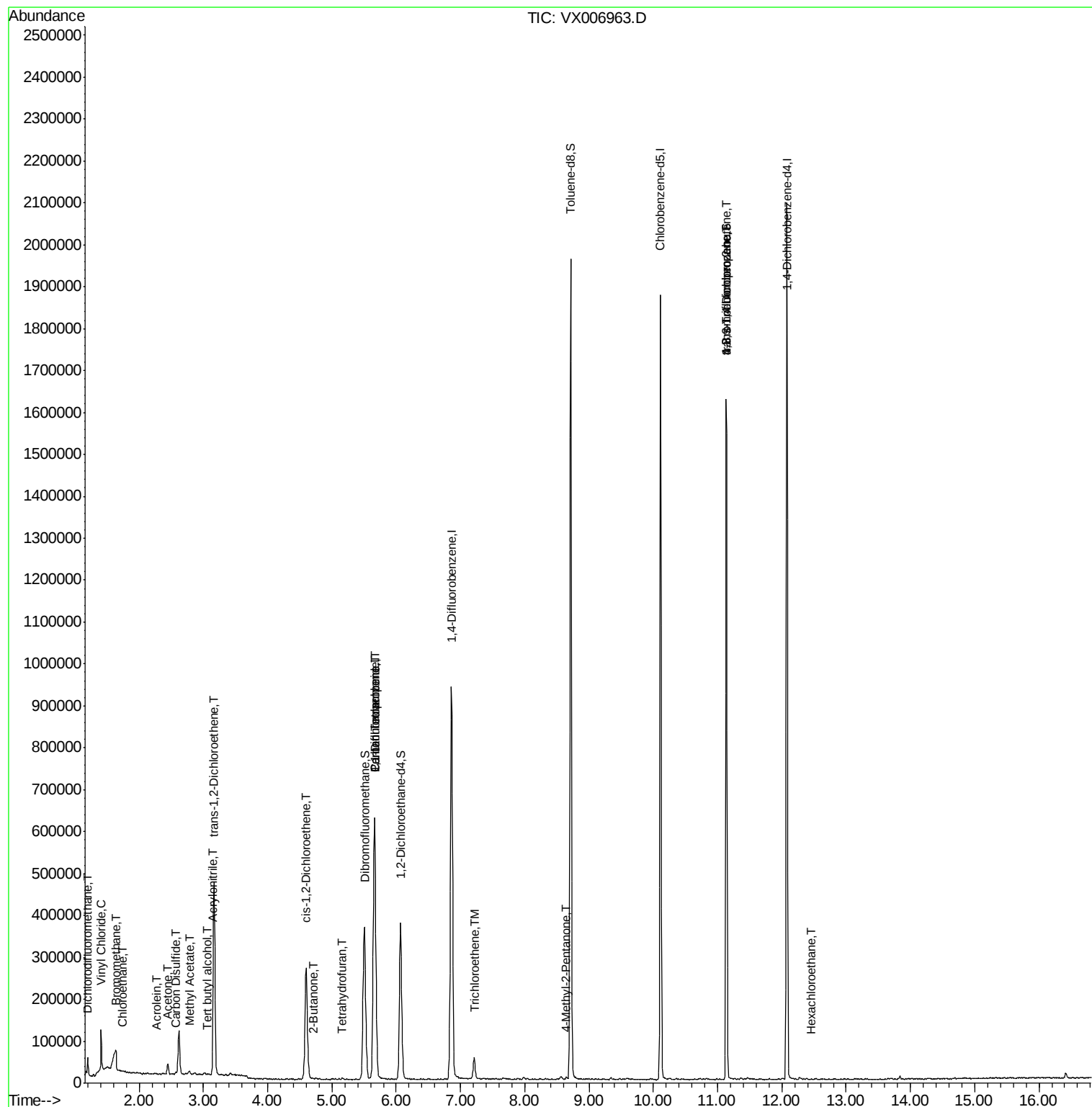
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	22249	4.107	ug/l	94
4) Vinyl Chloride	1.41	62	59698	8.800	ug/l	100
5) Bromomethane	1.64	94	1662	0.229	ug/l	91
6) Chloroethane	1.75	64	1442	0.304	ug/l	100
11) Tert butyl alcohol	3.06	59	2542	1.563	ug/l	96
13) Acrolein	2.28	56	154	3.301	ug/l #	1
15) Acrylonitrile	3.15	53	1158	0.310	ug/l #	30
16) Acetone	2.45	43	28577	8.384	ug/l	96
17) Carbon Disulfide	2.57	76	6712	0.430	ug/l #	93
18) Methyl Acetate	2.78	43	12038	1.220	ug/l	94
20) Methylene Chloride	2.85	84	2102	Below Cal	#	71
21) trans-1,2-Dichloroethene	3.17	96	189355	28.024	ug/l	96
25) 2-Butanone	4.71	43	4965	1.018	ug/l	90
27) cis-1,2-Dichloroethene	4.60	96	177392	23.801	ug/l	93
29) Tetrahydrofuran	5.17	42	1434	0.452	ug/l #	53
36) 1,1-Dichloropropene	5.67	75	40005	4.597	ug/l #	49
38) Carbon Tetrachloride	5.67	117	59128	6.753	ug/l #	14
44) Trichloroethene	7.21	130	21235	2.669	ug/l	83
49) 1,4-Dioxane	7.76	88	55	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.65	43	3936	0.416	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	198518	22.316	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	198518	66.034	ug/l #	10
90) Hexachloroethane	12.46	117	114	2.933	ug/l	79

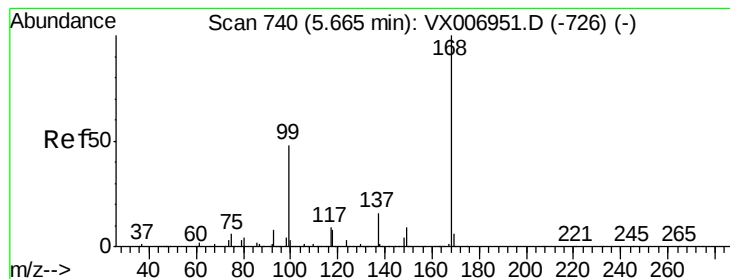
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX010919\
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Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Jan 10 00:55:37 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 08 14:06:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX006963.D

Acq: 09 Jan 2019 14:20

Instrument :

MSVOA_X

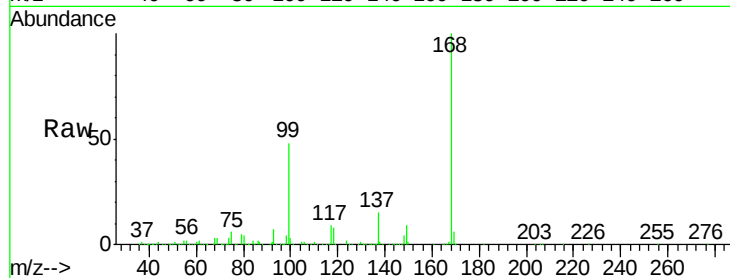
ClientSampleId :

Tot Ion:168 Resp: 659714

Ion Ratio Lower Upper

168 100

99 48.2 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

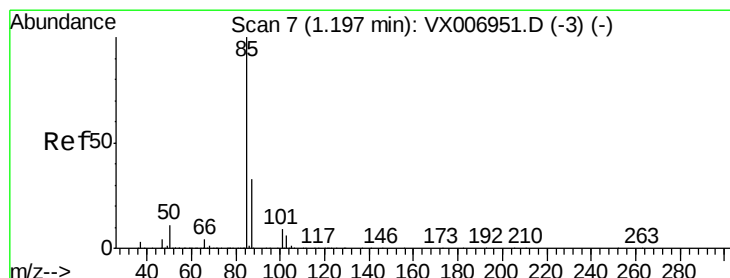
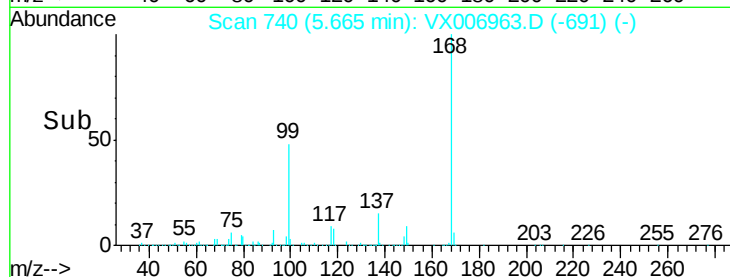
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 4.107 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX006963.D

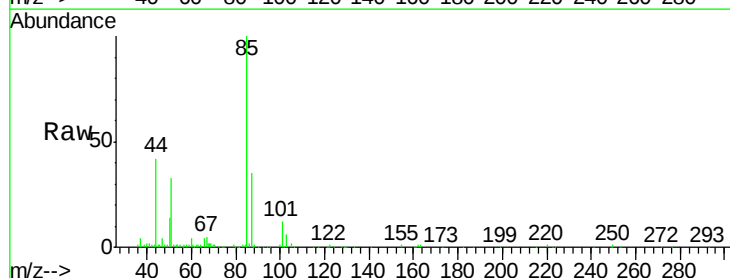
Acq: 09 Jan 2019 14:20

Tgt Ion: 85 Resp: 22249

Ion Ratio Lower Upper

85 100

87 34.8 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

20000

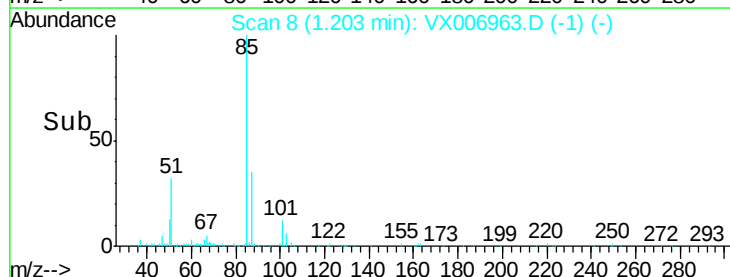
15000

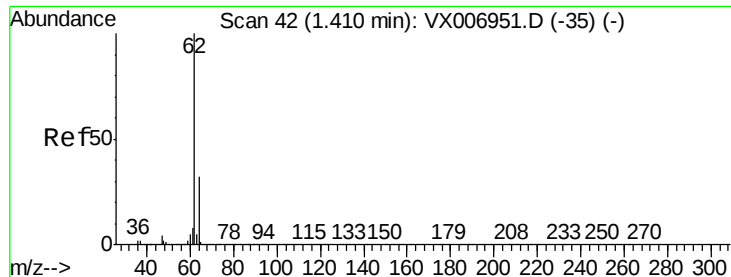
10000

5000

0

Time--> 1.15 1.20 1.25





#4

Vinyl Chloride

Concen: 8.800 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX006963.D

Acq: 09 Jan 2019 14:20

Instrument :

MSVOA_X

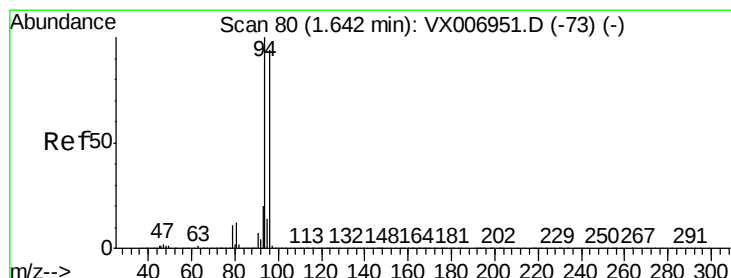
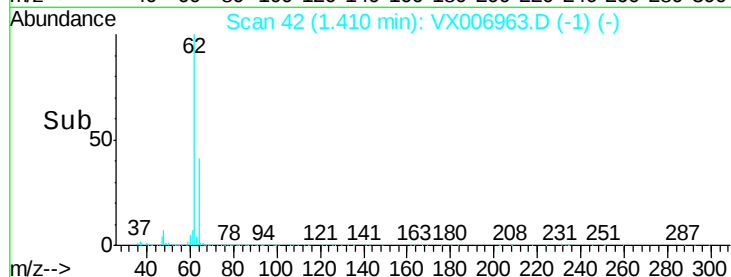
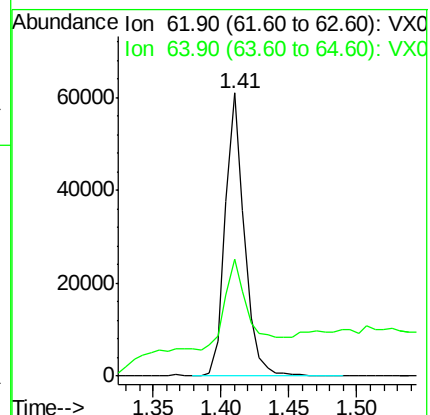
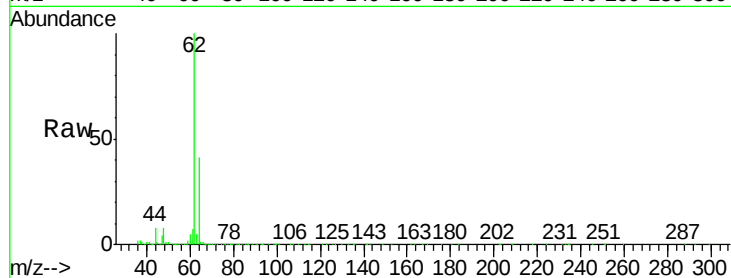
ClientSampleId :

Tot Ion: 62 Resp: 59698

Ion Ratio Lower Upper

62 100

64 31.7 25.1 37.7



#5

Bromomethane

Concen: 0.229 ug/l

RT: 1.64 min Scan# 80

Delta R.T. -0.00 min

Lab File: VX006963.D

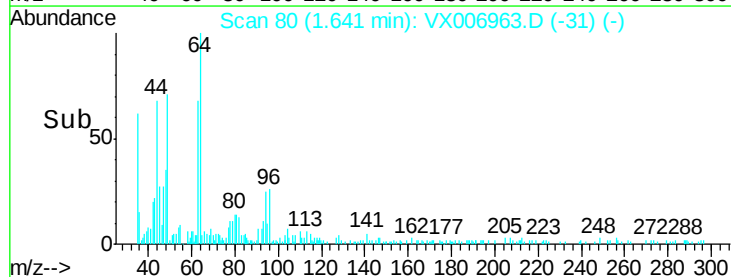
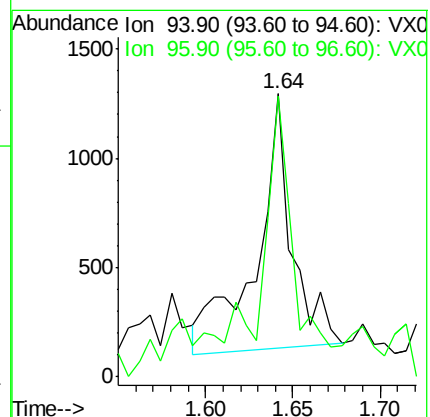
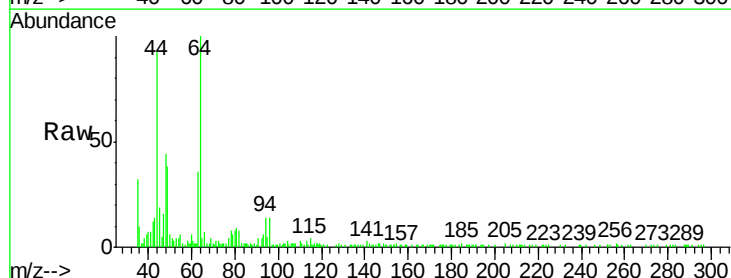
Acq: 09 Jan 2019 14:20

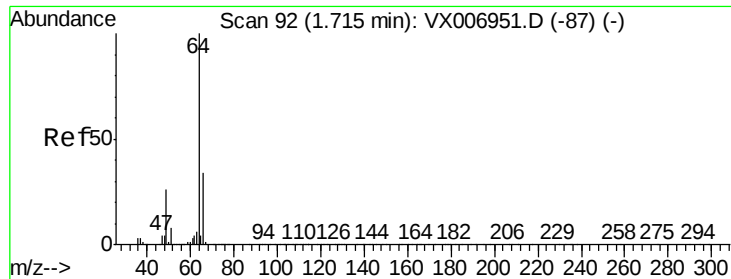
Tgt Ion: 94 Resp: 1662

Ion Ratio Lower Upper

94 100

96 99.9 73.4 110.2





#6

Chloroethane

Concen: 0.304 ug/l

RT: 1.75 min Scan# 97

Delta R.T. 0.03 min

Lab File: VX006963.D

Acq: 09 Jan 2019 14:20

Instrument :

MSVOA_X

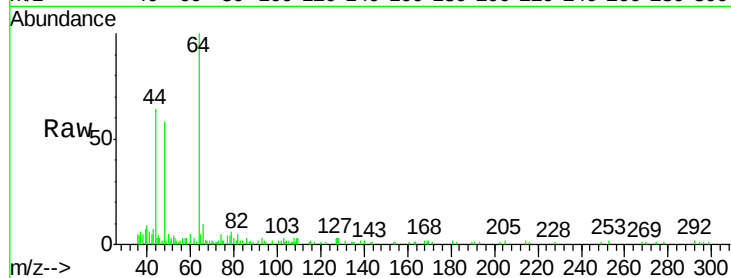
ClientSampled :

Tot Ion: 64 Resp: 1442

Ion Ratio Lower Upper

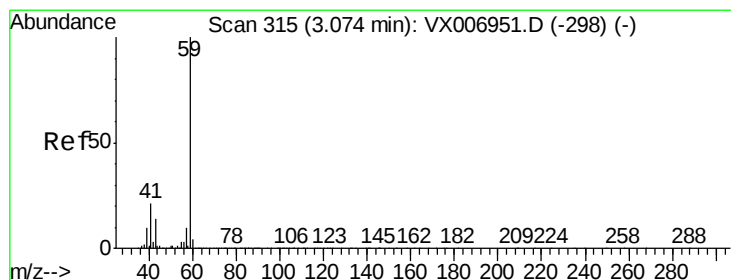
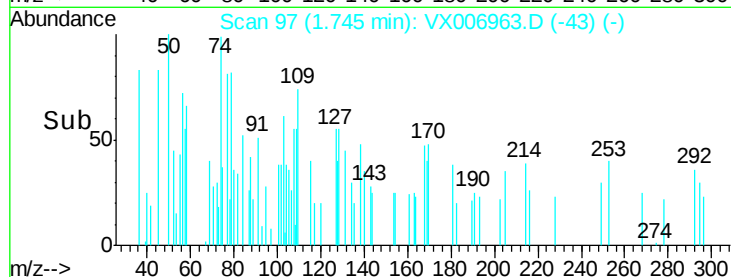
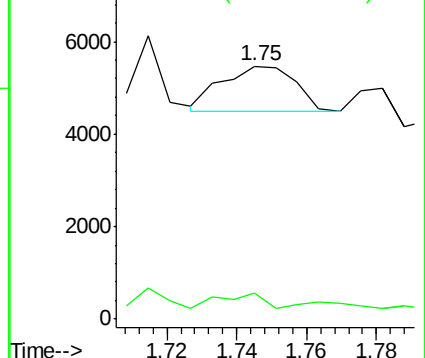
64 100

66 32.9 26.4 39.6



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 1.563 ug/l

RT: 3.06 min Scan# 313

Delta R.T. -0.01 min

Lab File: VX006963.D

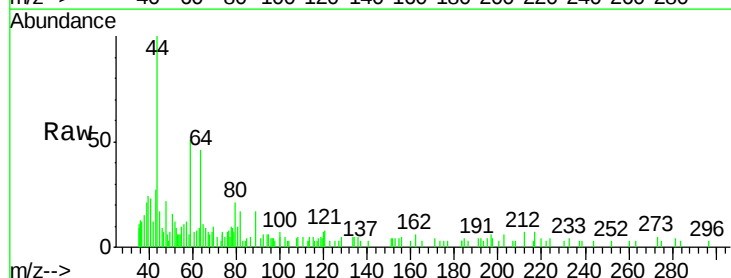
Acq: 09 Jan 2019 14:20

Tgt Ion: 59 Resp: 2542

Ion Ratio Lower Upper

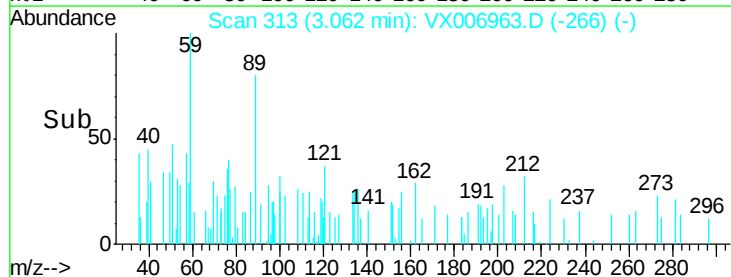
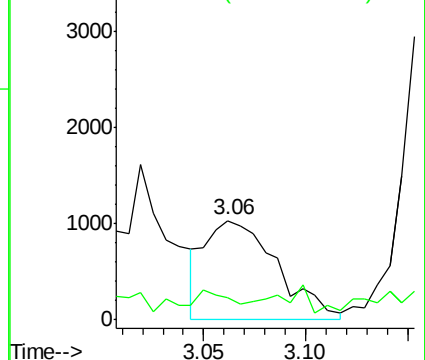
59 100

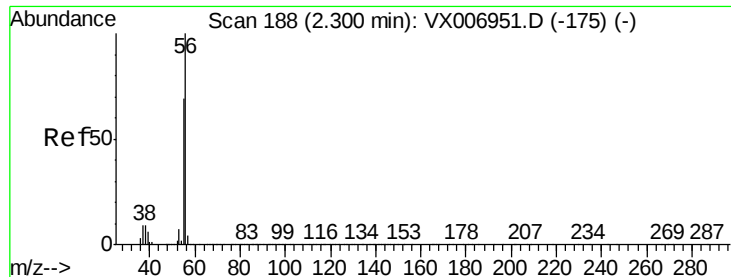
57 12.0 8.5 12.7



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 3.301 ug/l

RT: 2.28 min Scan# 184

Delta R.T. -0.02 min

Lab File: VX006963.D

Acq: 09 Jan 2019 14:20

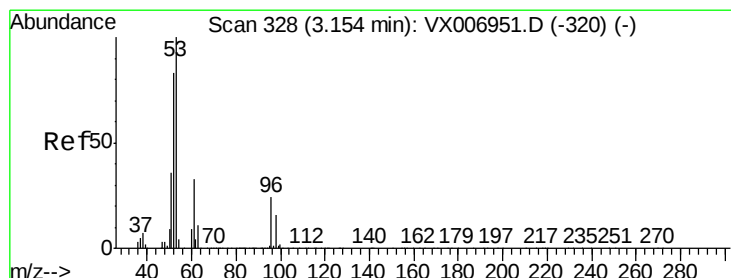
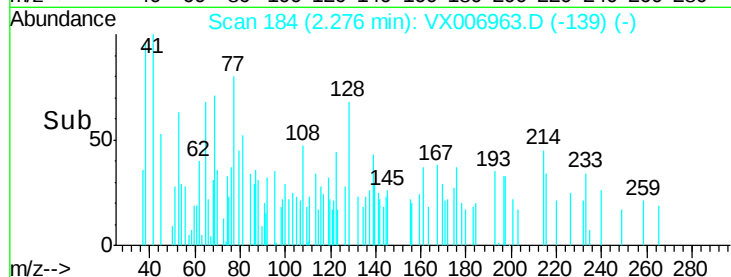
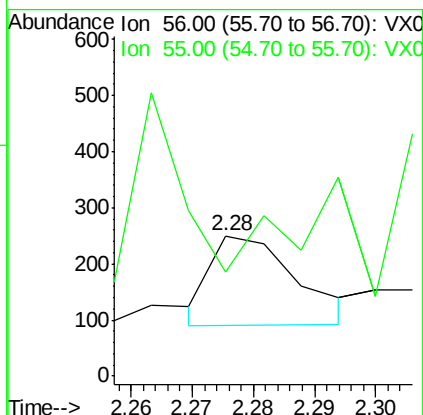
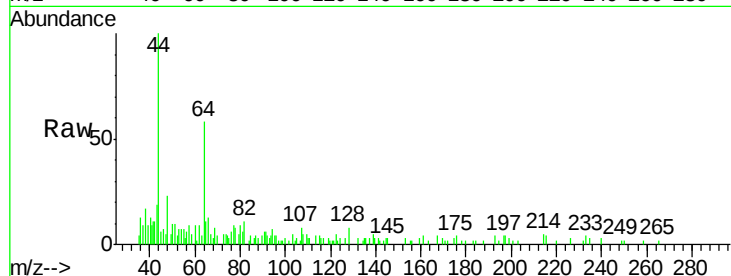
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 154

Ion Ratio Lower Upper

56 100

55 223.4 58.2 87.4#



#15

Acrylonitrile

Concen: 0.310 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.01 min

Lab File: VX006963.D

Acq: 09 Jan 2019 14:20

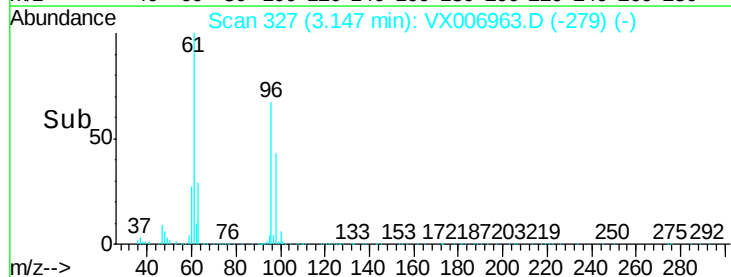
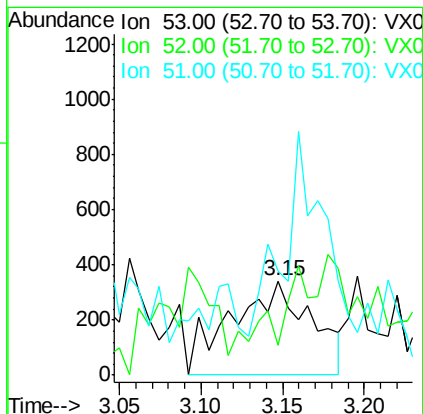
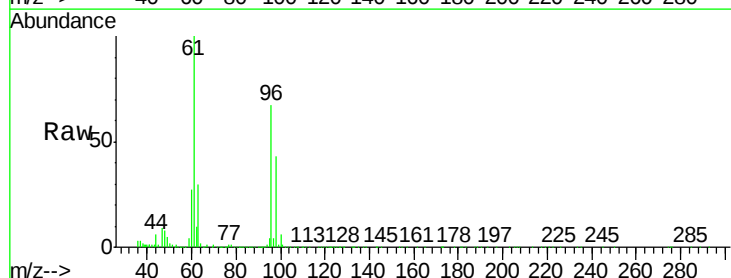
Tgt Ion: 53 Resp: 1158

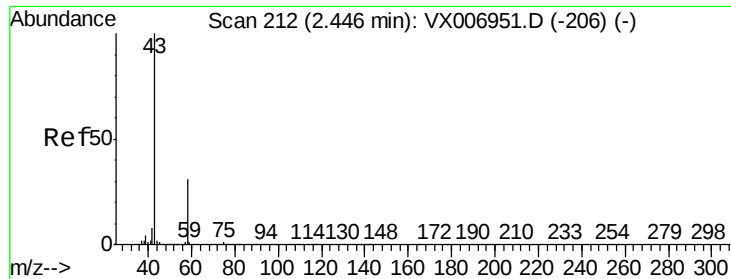
Ion Ratio Lower Upper

53 100

52 38.8 66.0 99.0#

51 105.4 28.6 42.8#

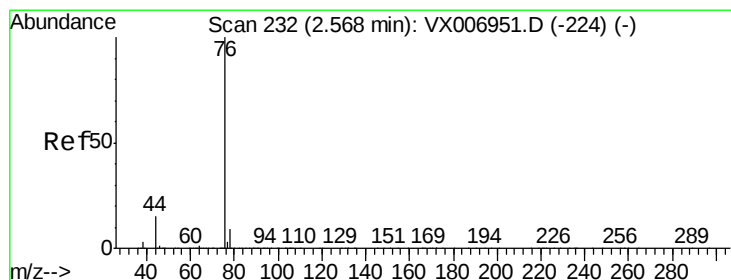
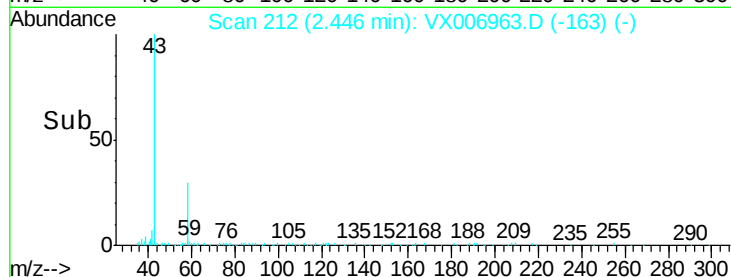
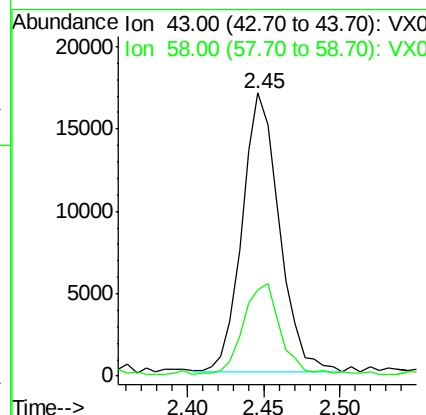
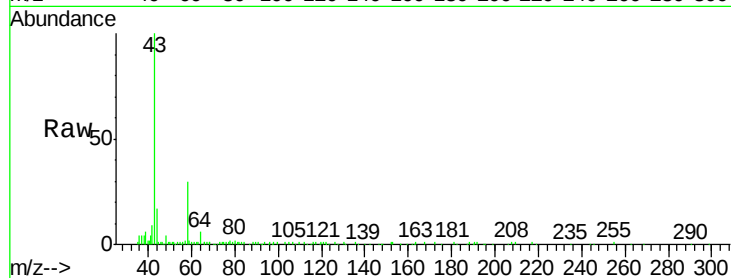




#16
Acetone
Concen: 8.384 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX006963.D
Acq: 09 Jan 2019 14:20

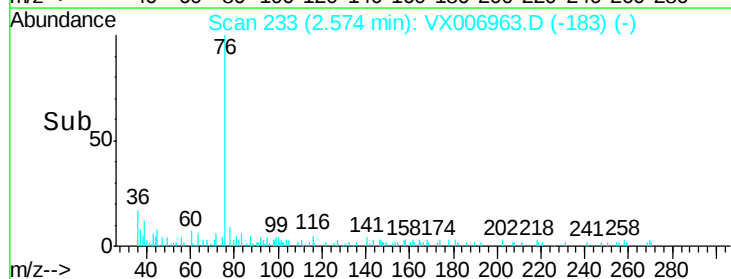
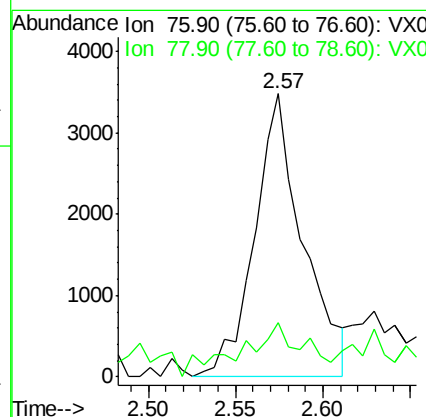
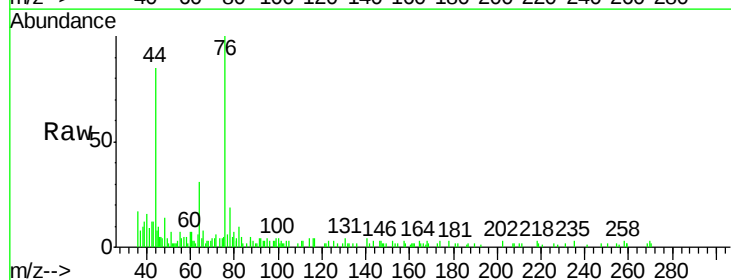
Instrument :
MSVOA_X
ClientSampleId :

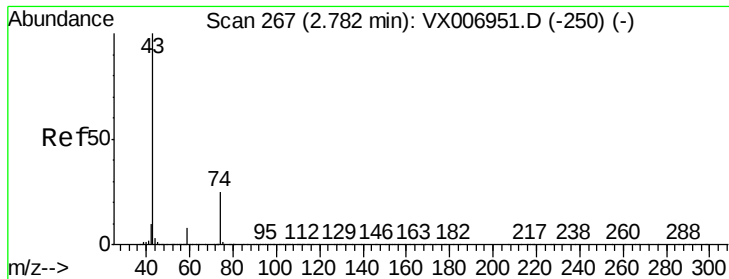
Tot Ion: 43 Resp: 28577
Ion Ratio Lower Upper
43 100
58 29.2 25.0 37.6



#17
Carbon Disulfide
Concen: 0.430 ug/l
RT: 2.57 min Scan# 233
Delta R.T. 0.01 min
Lab File: VX006963.D
Acq: 09 Jan 2019 14:20

Tgt Ion: 76 Resp: 6712
Ion Ratio Lower Upper
76 100
78 11.3 7.0 10.6#





#18

Methyl Acetate

Concen: 1.220 ug/l

RT: 2.78 min Scan# 267

Delta R.T. -0.00 min

Lab File: VX006963.D

Acq: 09 Jan 2019 14:20

Instrument :

MSVOA_X

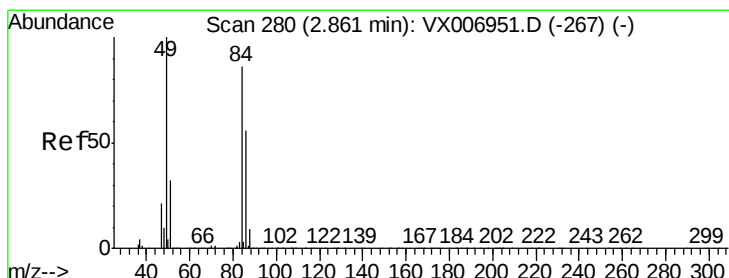
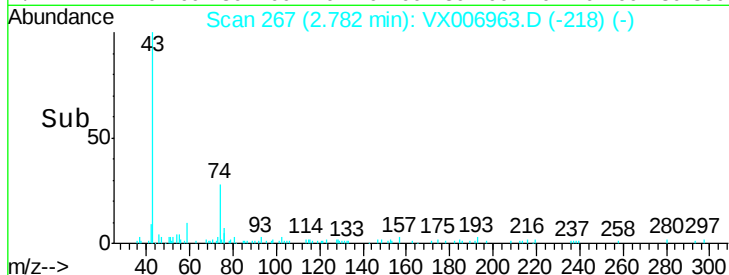
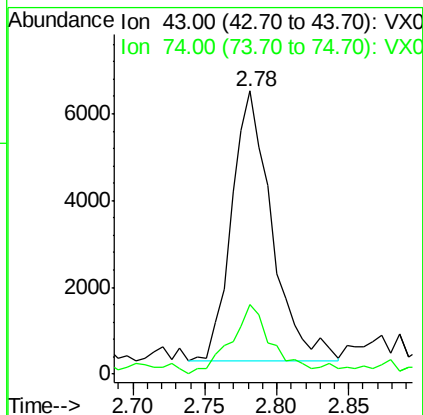
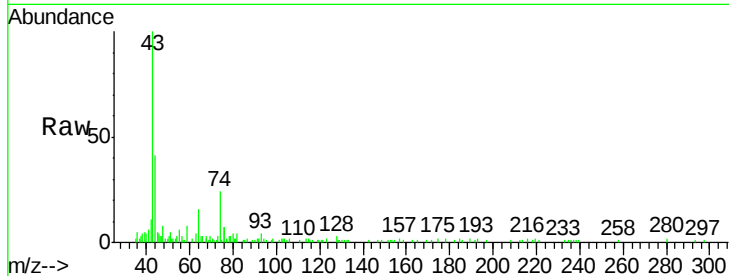
ClientSampleId :

Tot Ion: 43 Resp: 12038

Ion Ratio Lower Upper

43 100

74 26.0 18.6 28.0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX006963.D

Acq: 09 Jan 2019 14:20

Tgt Ion: 84 Resp: 2102

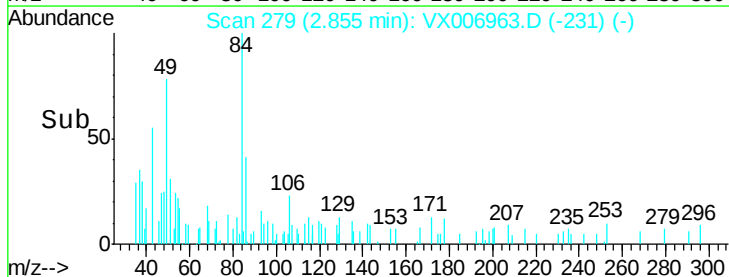
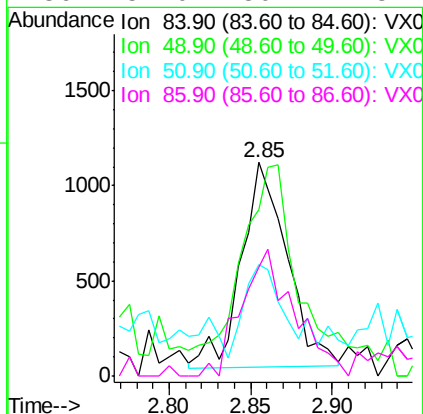
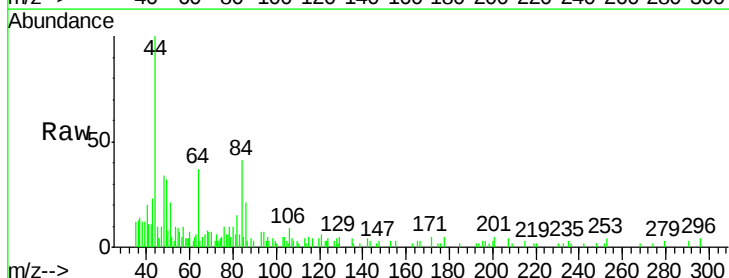
Ion Ratio Lower Upper

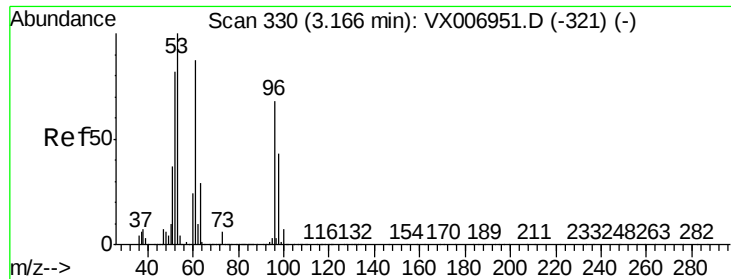
84 100

49 70.5 91.8 137.6#

51 49.9 28.5 42.7#

86 54.0 50.2 75.2





#21

trans-1,2-Dichloroethene

Concen: 28.024 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX006963.D

Acq: 09 Jan 2019 14:20

Instrument :
MSVOA_X
ClientSampleId :

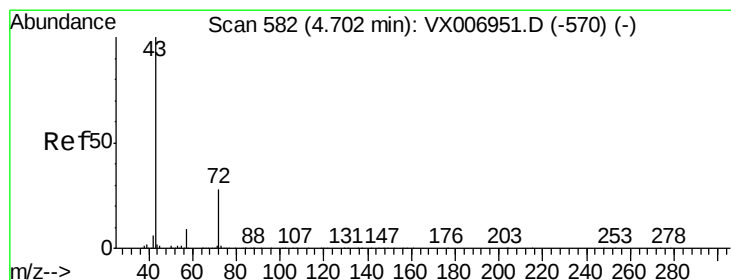
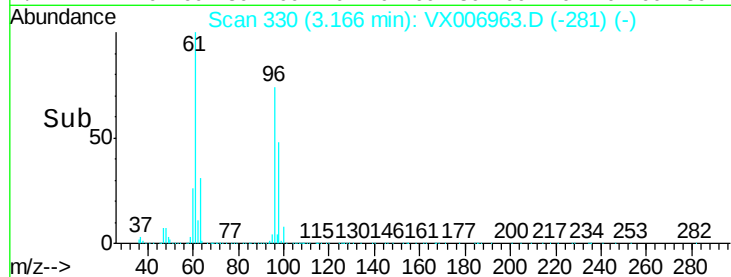
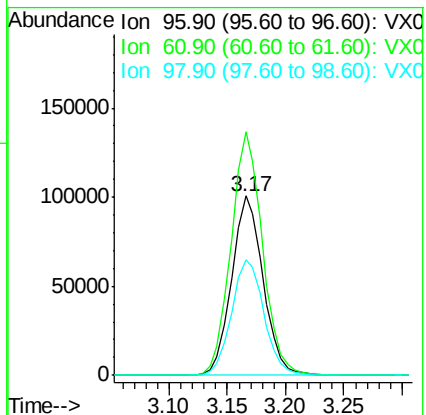
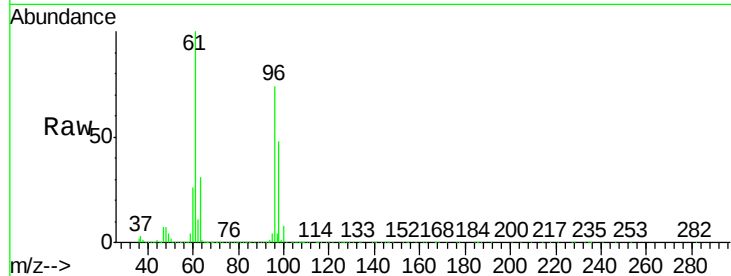
Tot Ion: 96 Resp: 189355

Ion Ratio Lower Upper

96 100

61 135.6 103.7 155.5

98 64.6 51.0 76.6



#25

2-Butanone

Concen: 1.018 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX006963.D

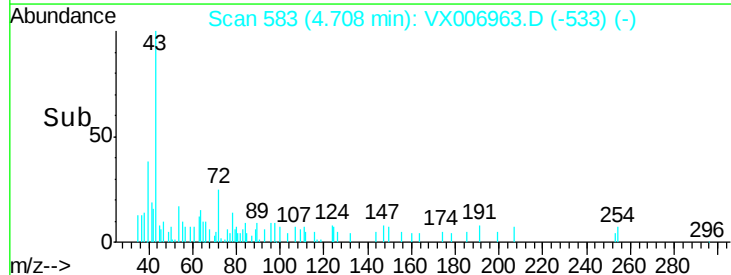
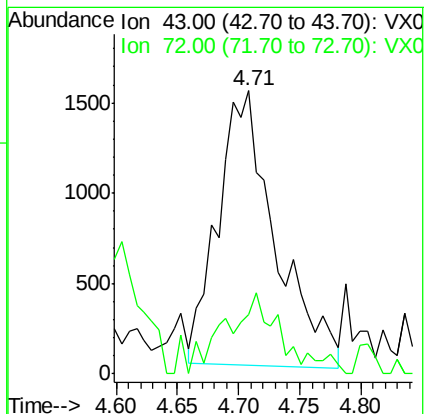
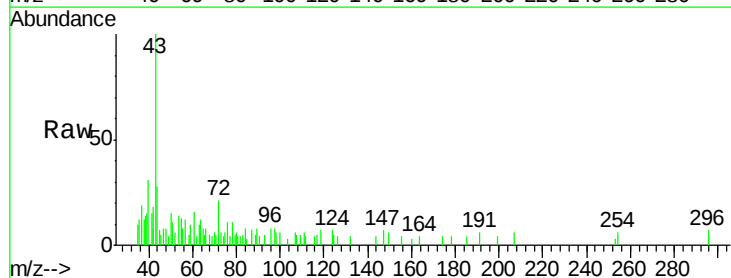
Acq: 09 Jan 2019 14:20

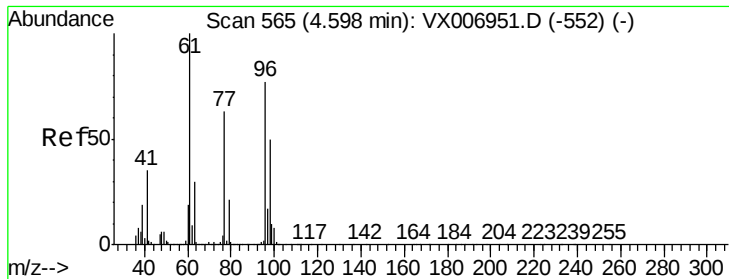
Tgt Ion: 43 Resp: 4965

Ion Ratio Lower Upper

43 100

72 22.8 22.4 33.6



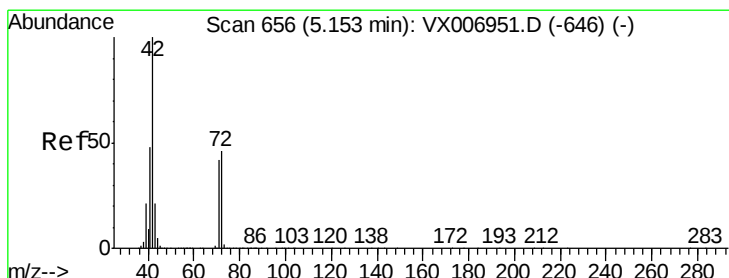
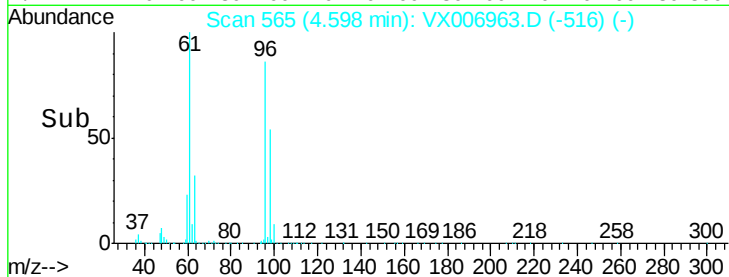
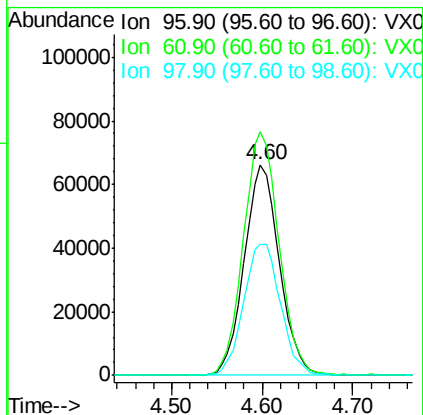
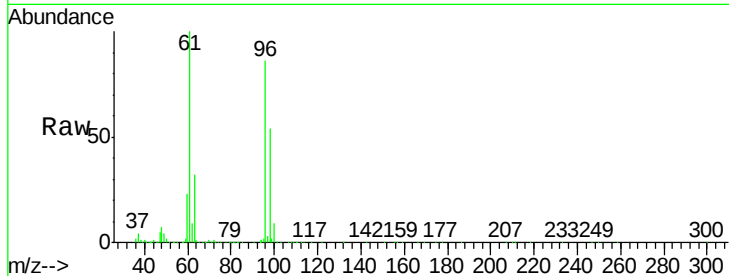


#27

cis-1,2-Dichloroethene
 Concen: 23.801 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. -0.00 min
 Lab File: VX006963.D
 Acq: 09 Jan 2019 14:20

Instrument :
 MSVOA_X
 ClientSampled :

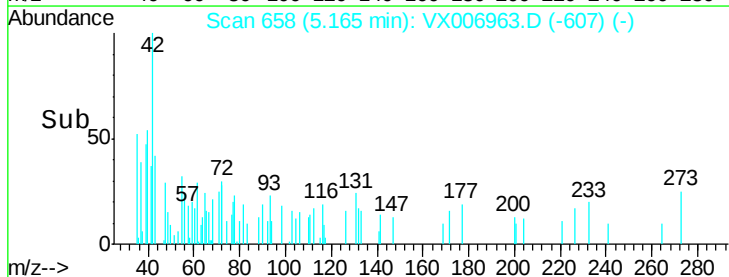
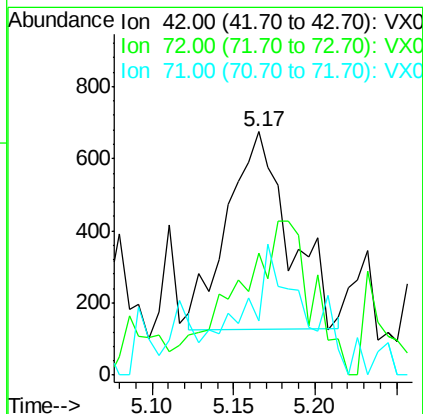
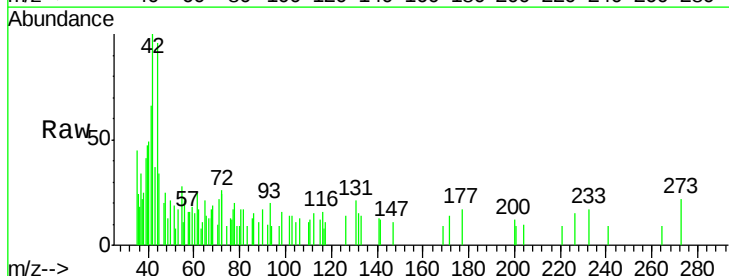
Tot Ion	Ratio	Lower	Upper
96	100		
61	117.2	0.0	258.6
98	65.6	0.0	132.0

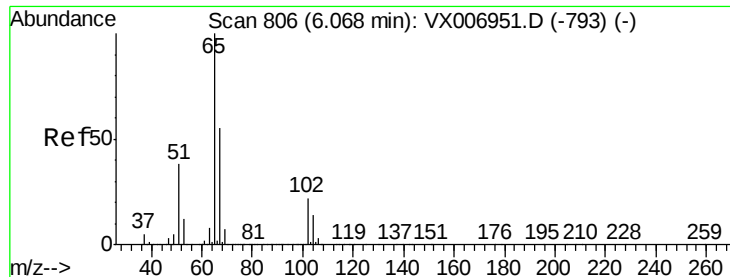


#29

Tetrahydrofuran
 Concen: 0.452 ug/l
 RT: 5.17 min Scan# 658
 Delta R.T. 0.01 min
 Lab File: VX006963.D
 Acq: 09 Jan 2019 14:20

Tgt Ion	Ratio	Lower	Upper
42	100		
72	97.7	38.9	58.3#
71	58.8	36.2	54.4#





#33

1,2-Dichloroethane-d4

Concen: 49.637 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX006963.D

Acq: 09 Jan 2019 14:20

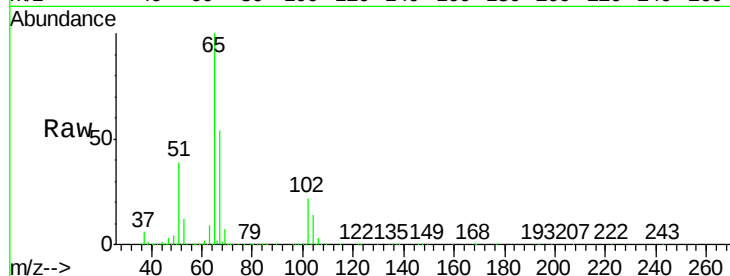
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 65 Resp: 342226

Ion Ratio Lower Upper

65 100

67 53.4 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

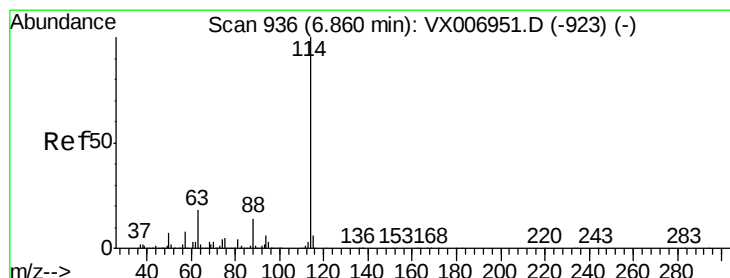
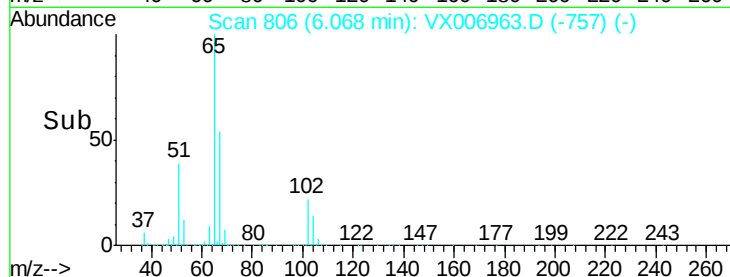
150000

100000

50000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006963.D

Acq: 09 Jan 2019 14:20

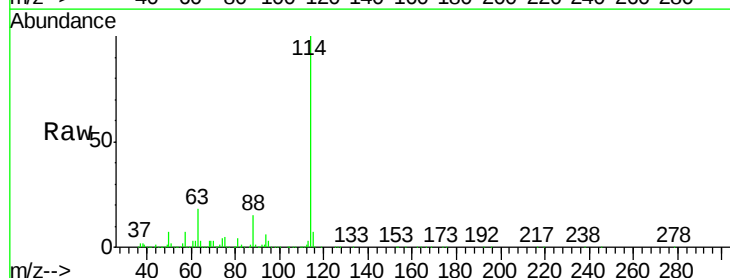
Tgt Ion: 114 Resp: 1001018

Ion Ratio Lower Upper

114 100

63 18.4 0.0 34.8

88 15.0 0.0 28.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

6.86

600000

500000

400000

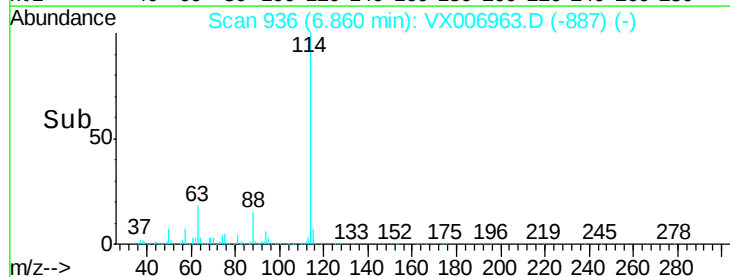
300000

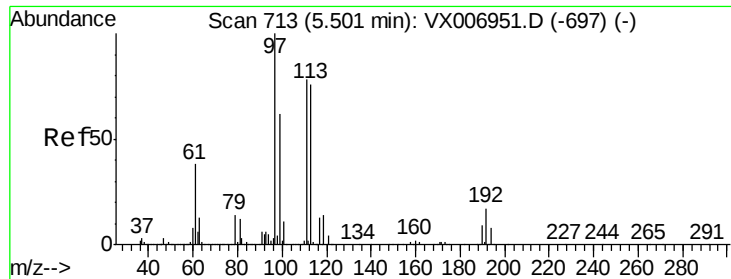
200000

100000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 48.668 ug/l

RT: 5.50 min Scan# 713

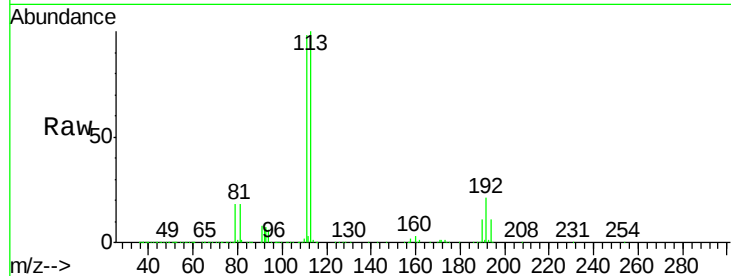
Delta R.T. -0.00 min

Lab File: VX006963.D

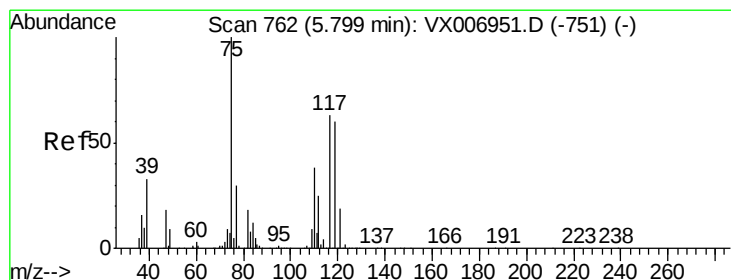
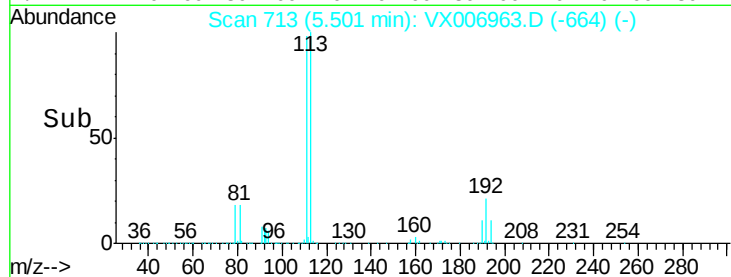
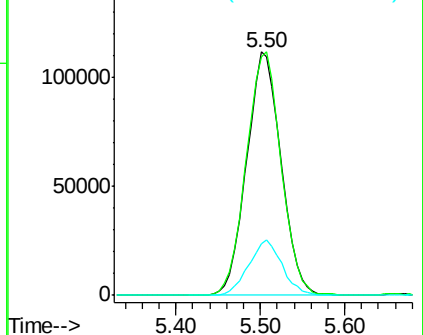
Acq: 09 Jan 2019 14:20

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:113	Resp:	311985
Ion Ratio	Lower	Upper
113	100	
111	101.1	81.6 122.4
192	22.1	16.7 25.1



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: 4.597 ug/l

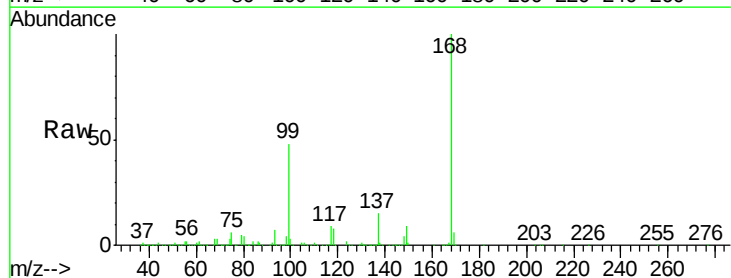
RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

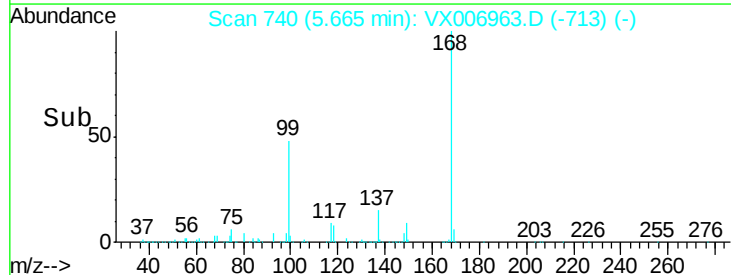
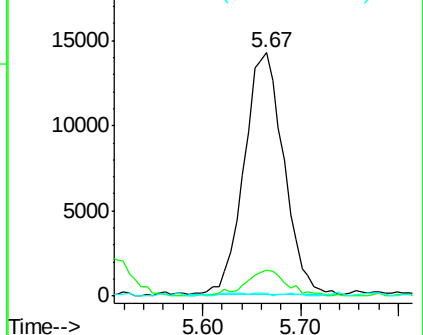
Lab File: VX006963.D

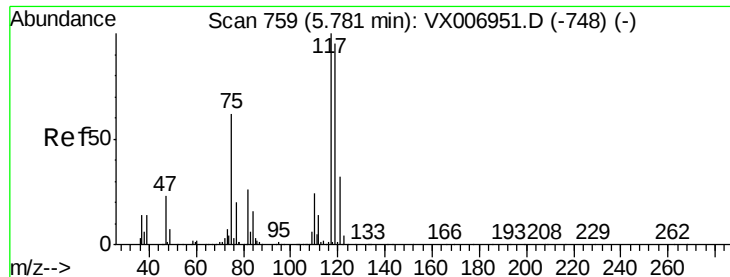
Acq: 09 Jan 2019 14:20

Tgt Ion: 75	Resp:	40005
Ion Ratio	Lower	Upper
75	100	
110	11.3	20.2 60.5#
77	0.4	24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.753 ug/l

RT: 5.67 min Scan# 740

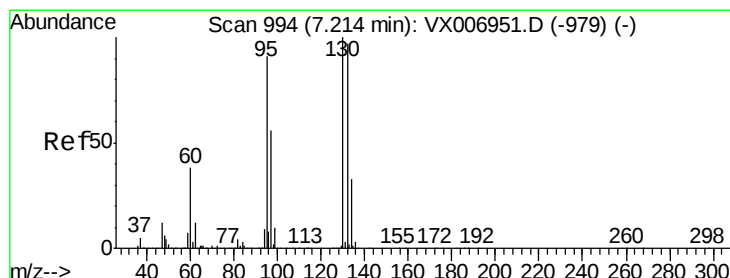
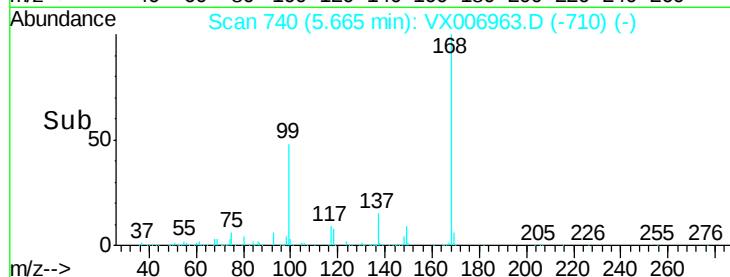
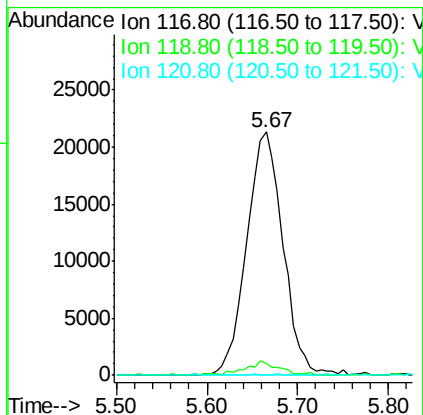
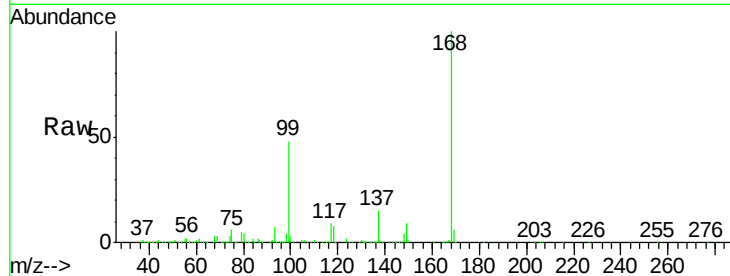
Delta R.T. -0.12 min

Lab File: VX006963.D

Acq: 09 Jan 2019 14:20

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 59128
Ion Ratio Lower Upper
117 100
119 4.5 79.4 119.2#
121 0.0 24.0 36.0#



#44

Trichloroethene

Concen: 2.669 ug/l

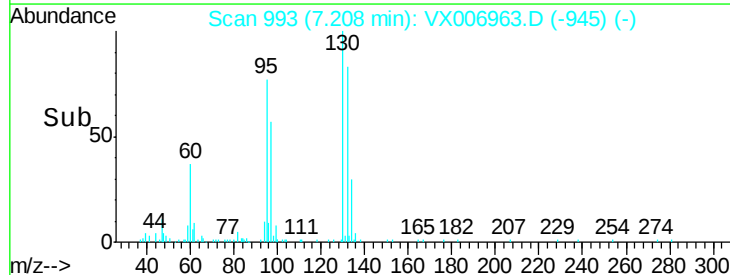
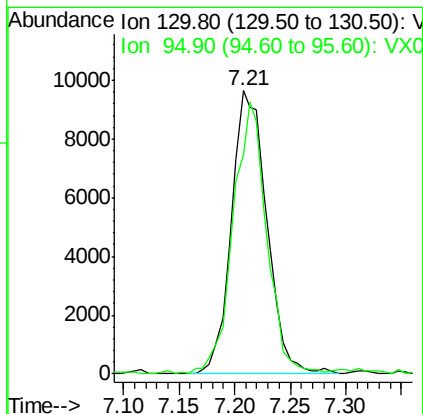
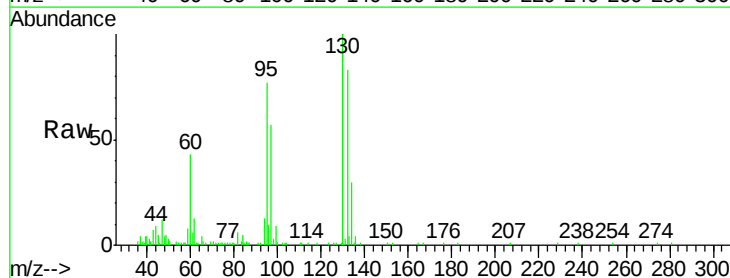
RT: 7.21 min Scan# 993

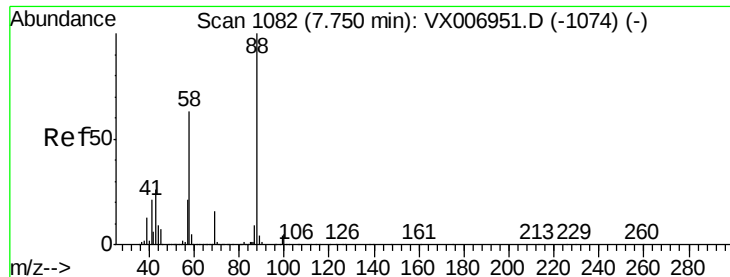
Delta R.T. -0.01 min

Lab File: VX006963.D

Acq: 09 Jan 2019 14:20

Tgt Ion:130 Resp: 21235
Ion Ratio Lower Upper
130 100
95 77.5 0.0 187.0





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX006963.D

Acq: 09 Jan 2019 14:20

Instrument :
MSVOA_X
ClientSampleId :

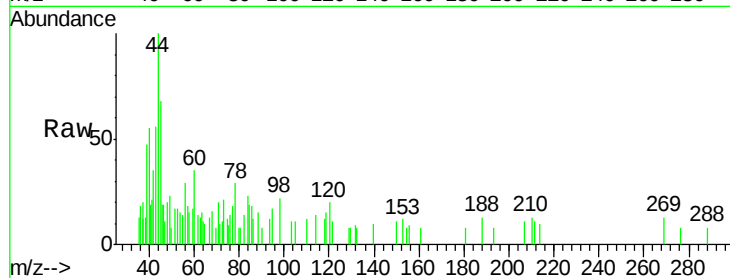
Tot Ion: 88 Resp: 55

Ion Ratio Lower Upper

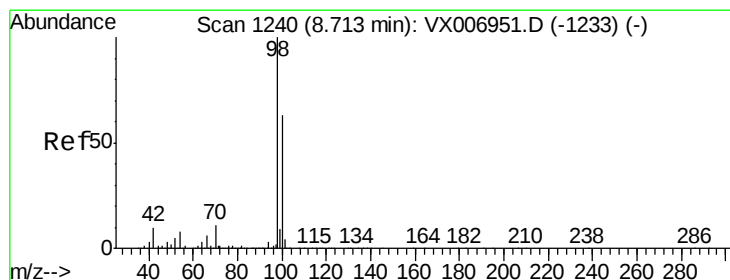
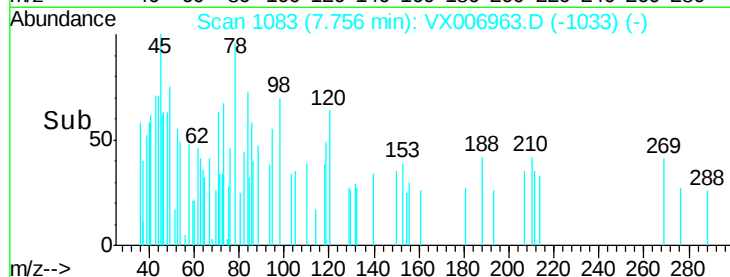
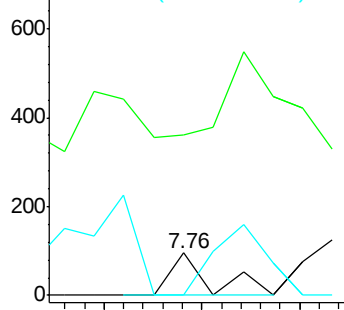
88 100

43 489.1 22.2 33.4#

58 221.8 51.0 76.4#



Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 50.339 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006963.D

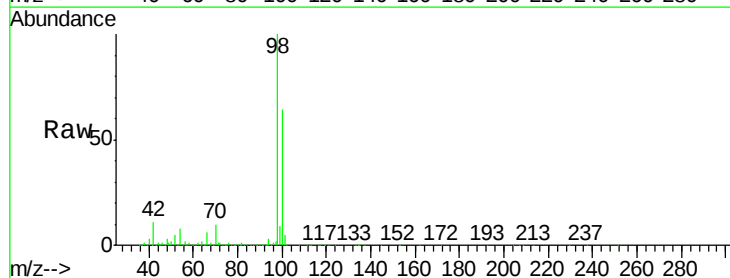
Acq: 09 Jan 2019 14:20

Tgt Ion: 98 Resp: 1181167

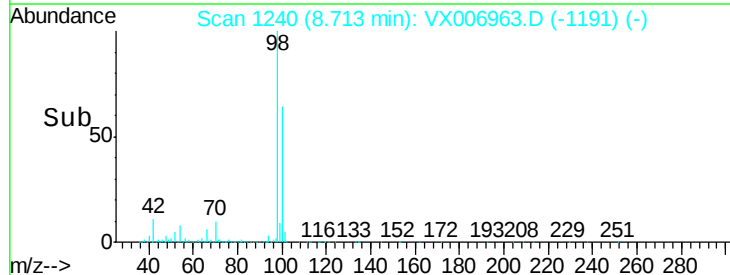
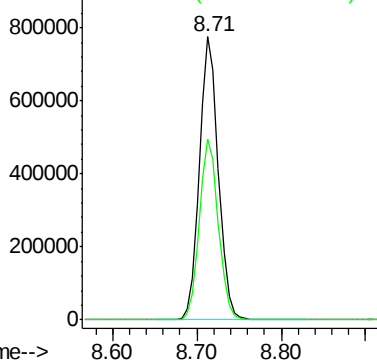
Ion Ratio Lower Upper

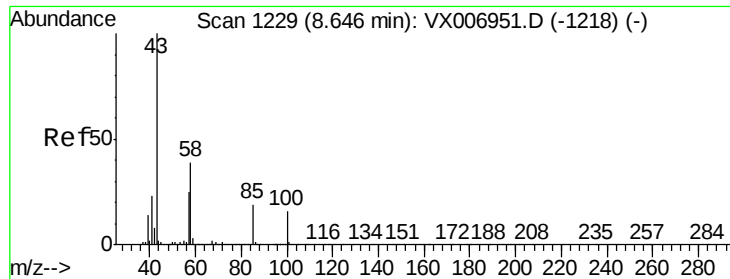
98 100

100 64.0 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 0.416 ug/l

RT: 8.65 min Scan# 1229

Delta R.T. -0.00 min

Lab File: VX006963.D

Acq: 09 Jan 2019 14:20

Instrument :

MSVOA_X

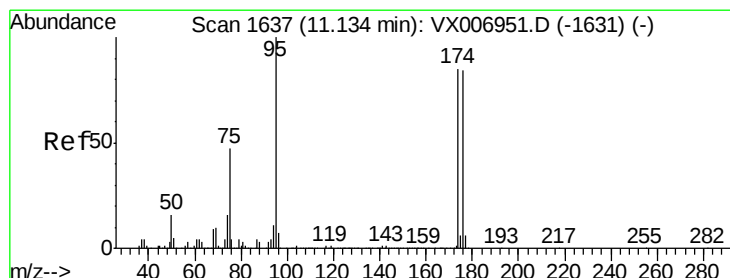
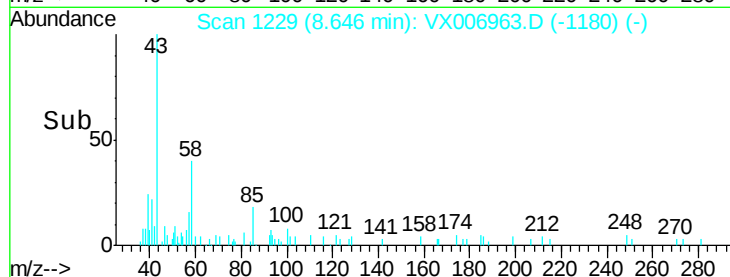
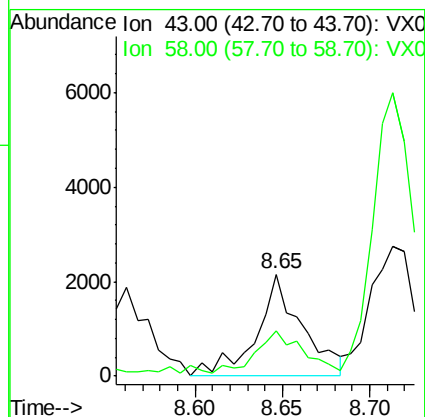
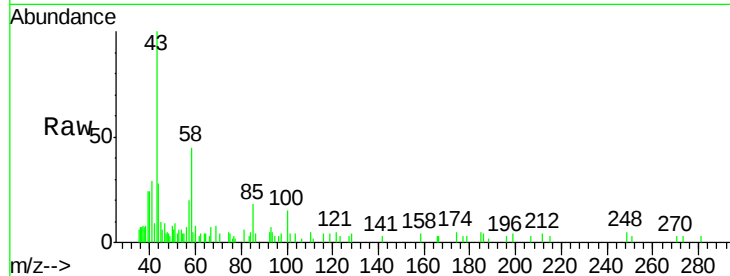
ClientSampled :

Tot Ion: 43 Resp: 3936

Ion Ratio Lower Upper

43 100

58 42.9 31.8 47.6



#62

4-Bromofluorobenzene

Concen: 50.115 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006963.D

Acq: 09 Jan 2019 14:20

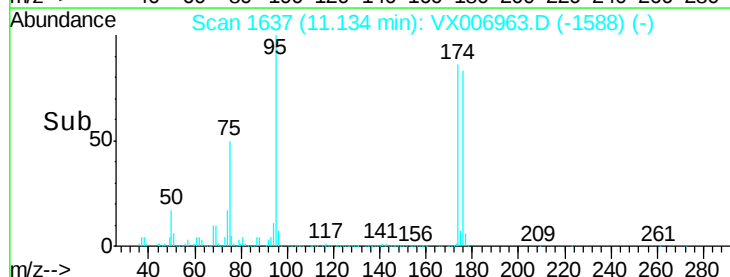
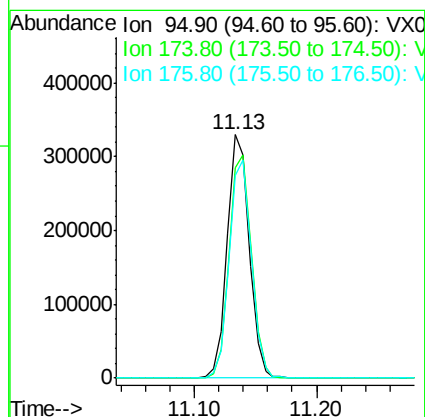
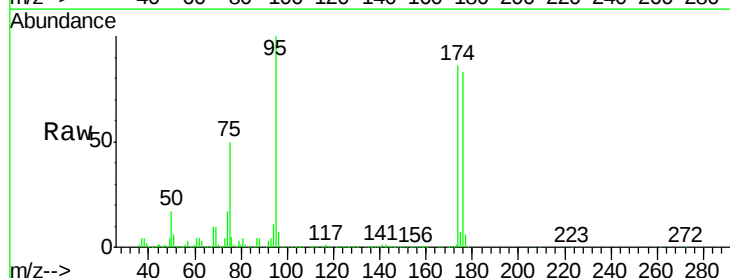
Tgt Ion: 95 Resp: 409953

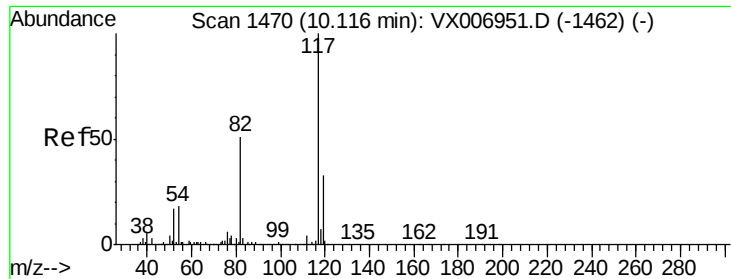
Ion Ratio Lower Upper

95 100

174 93.0 0.0 182.2

176 90.3 0.0 178.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.01 min

Lab File: VX006963.D

Acq: 09 Jan 2019 14:20

Instrument :

MSVOA_X

ClientSampleId :

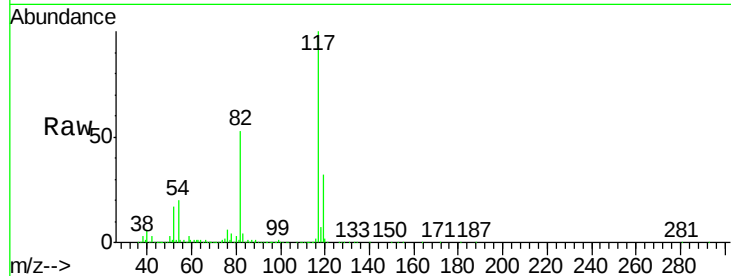
Tot Ion:117 Resp: 911467

Ion Ratio Lower Upper

117 100

82 52.7 41.0 61.6

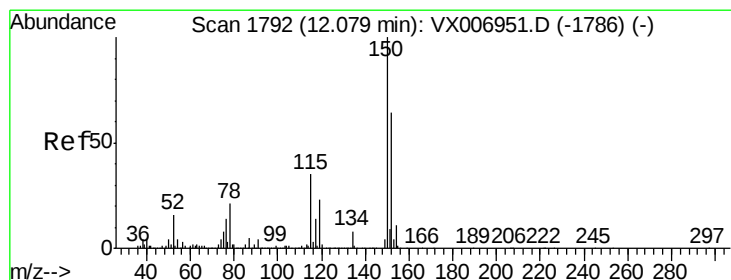
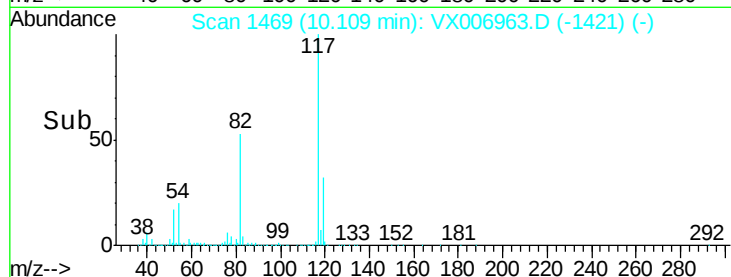
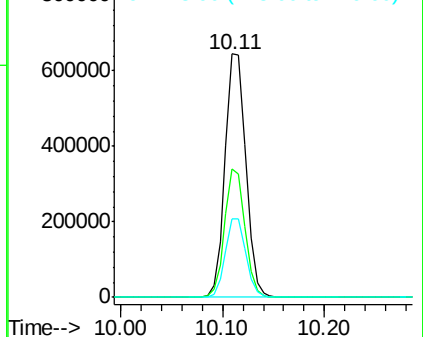
119 32.4 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX006963.D

Acq: 09 Jan 2019 14:20

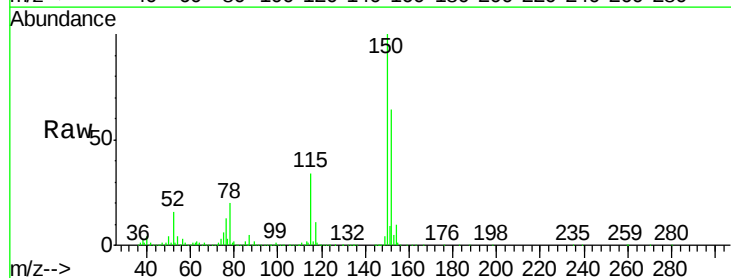
Tgt Ion:152 Resp: 438981

Ion Ratio Lower Upper

152 100

115 54.5 39.1 117.2

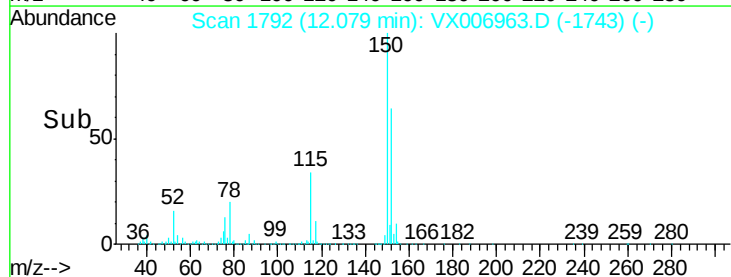
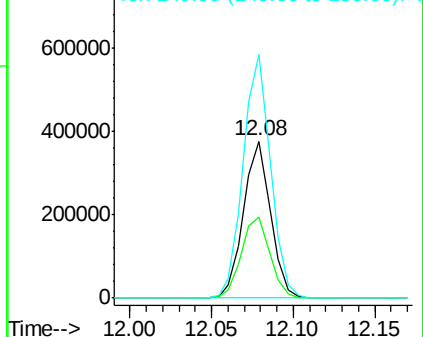
150 157.3 0.0 344.8

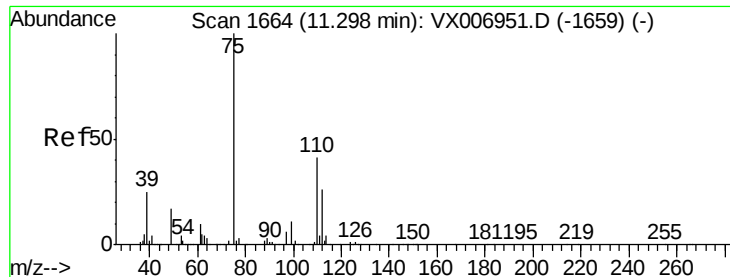


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.316 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006963.D

Acq: 09 Jan 2019 14:20

Instrument :

MSVOA_X

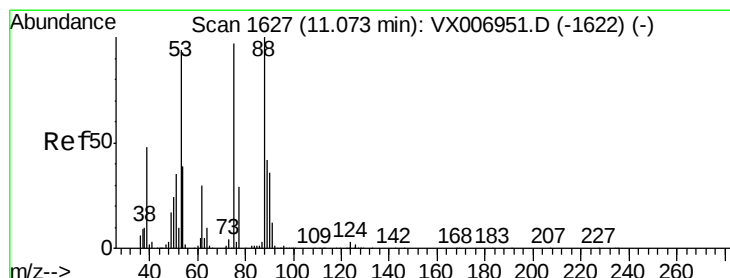
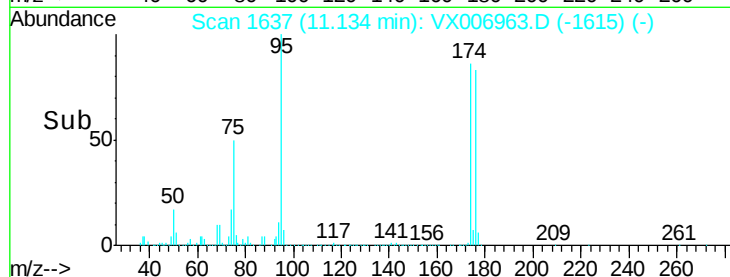
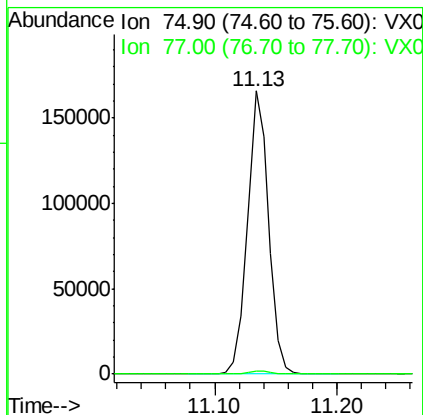
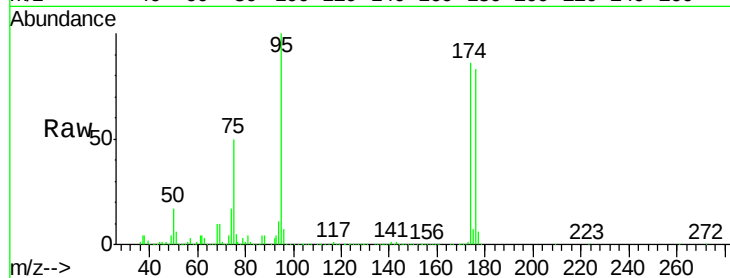
ClientSampleId :

Tot Ion: 75 Resp: 198518

Ion Ratio Lower Upper

75 100

77 1.2 18.5 55.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 66.034 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006963.D

Acq: 09 Jan 2019 14:20

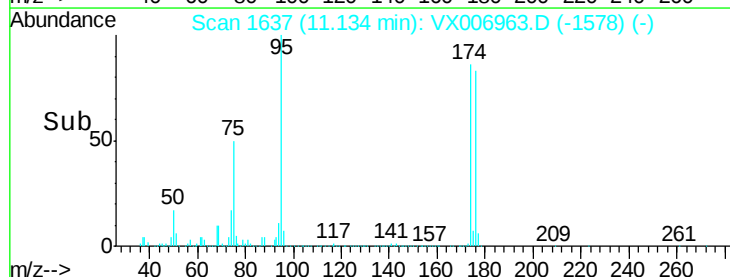
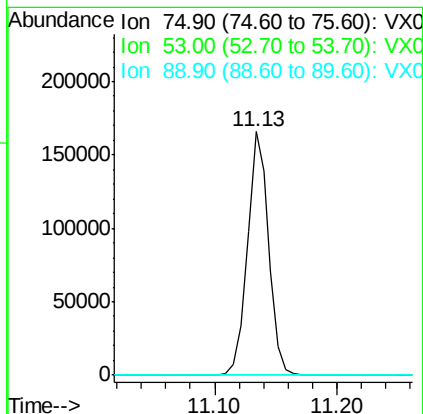
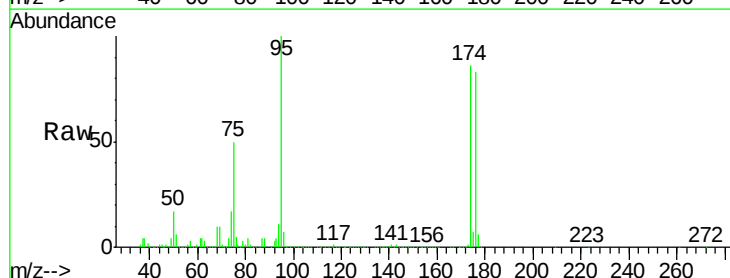
Tgt Ion: 75 Resp: 198518

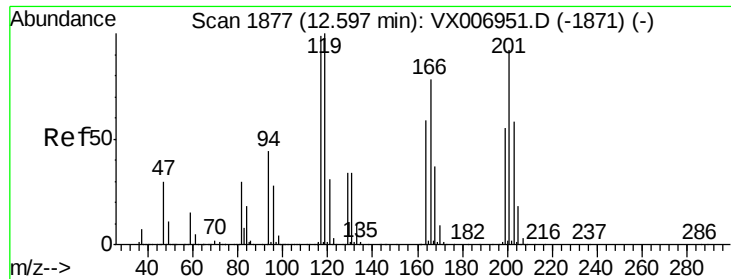
Ion Ratio Lower Upper

75 100

53 0.0 79.7 119.5#

89 0.1 38.0 57.0#





#90

Hexachloroethane

Concen: 2.933 ug/l

RT: 12.46 min Scan# 1855

Delta R.T. -0.13 min

Lab File: VX006963.D

Acq: 09 Jan 2019 14:20

Instrument :

MSVOA_X

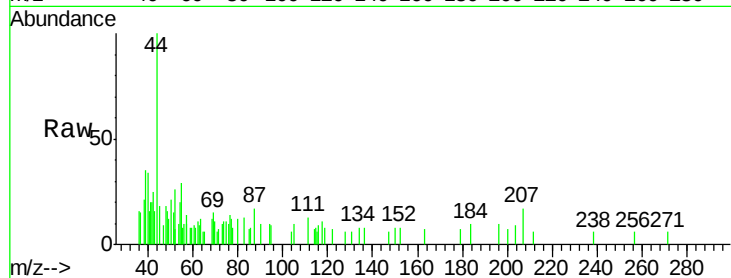
ClientSampleId :

Tot Ion:117 Resp: 114

Ion Ratio Lower Upper

117 100

201 66.7 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

