

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX012119\
 Data File : VX007167.D
 Acq On : 21 Jan 2019 18:54
 Operator : JC/SP
 Sample : K1195-04DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS037MW036-190116DL

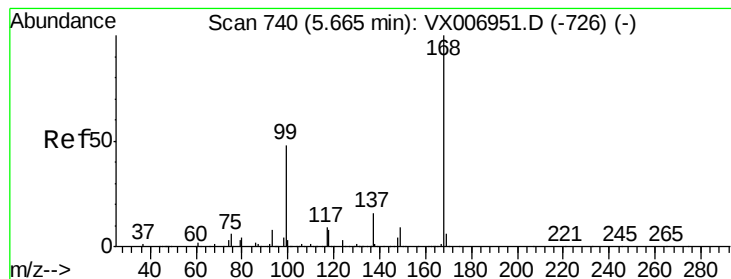
Quant Time: Jan 22 00:09:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	511076	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	795490	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	742836	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	381302	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	275230	51.53	ug/l	0.00
Spiked Amount			Recovery	=	103.06%	
35) Dibromofluoromethane	5.50	113	242849	47.67	ug/l	0.00
Spiked Amount			Recovery	=	95.34%	
50) Toluene-d8	8.71	98	959656	51.47	ug/l	0.00
Spiked Amount			Recovery	=	102.94%	
62) 4-Bromofluorobenzene	11.13	95	342236	52.65	ug/l	0.00
Spiked Amount			Recovery	=	105.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1009	0.207	ug/l #	86
4) Vinyl Chloride	1.41	62	1489	0.283	ug/l #	72
5) Bromomethane	1.64	94	2195	0.391	ug/l	89
11) Tert butyl alcohol	3.09	59	360	0.286	ug/l #	17
13) Acrolein	2.29	56	204	3.455	ug/l #	13
16) Acetone	2.45	43	1951	0.739	ug/l #	71
18) Methyl Acetate	2.78	43	2254	0.295	ug/l #	48
20) Methylene Chloride	2.85	84	2592	Below Cal	#	79
27) cis-1,2-Dichloroethene	4.59	96	3279	0.568	ug/l	97
36) 1,1-Dichloropropene	5.66	75	32055	4.635	ug/l #	50
38) Carbon Tetrachloride	5.66	117	46264	6.649	ug/l #	15
49) 1,4-Dioxane	7.76	88	42	Below Cal	#	1
65) Chlorobenzene	10.13	112	638222	39.392	ug/l	100
73) Isopropylbenzene	11.02	105	6681	0.248	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	166944	21.606	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	166944	64.052	ug/l #	10
83) tert-Butylbenzene	11.77	119	14639	0.653	ug/l	86
85) sec-Butylbenzene	11.94	105	12880	0.481	ug/l	96
86) p-Isopropyltoluene	12.23	119	61080	2.551	ug/l	99
88) 1,4-Dichlorobenzene	12.03	146	1025	0.226	ug/l	90
90) Hexachloroethane	12.70	117	12554	6.001	ug/l #	6
92) 1,2-Dibromo-3-Chloropropan	12.97	75	409	0.242	ug/l #	1

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX007167.D

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ClientSampleId :

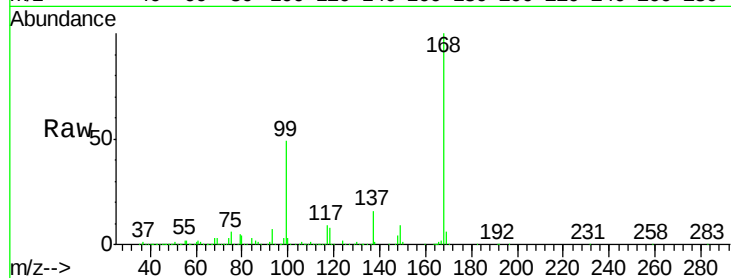
SS037MW036-190116DL

Tot Ion:168 Resp: 511076

Ion Ratio Lower Upper

168 100

99 49.1 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

200000

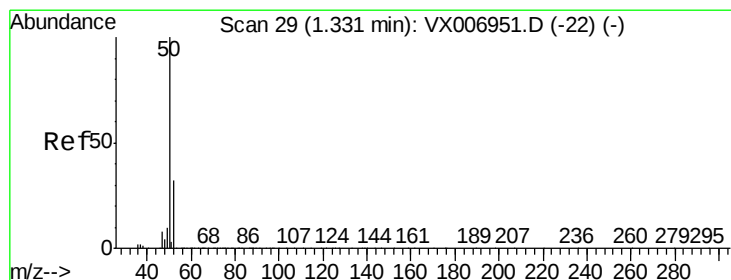
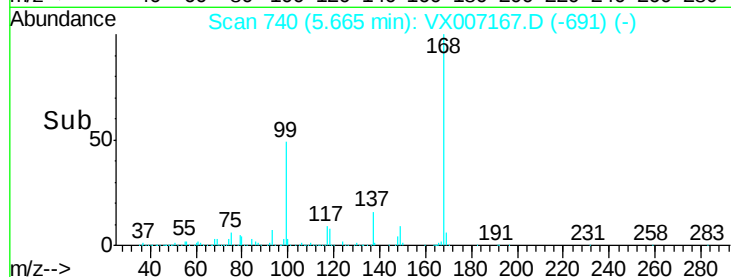
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.207 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.01 min

Lab File: VX007167.D

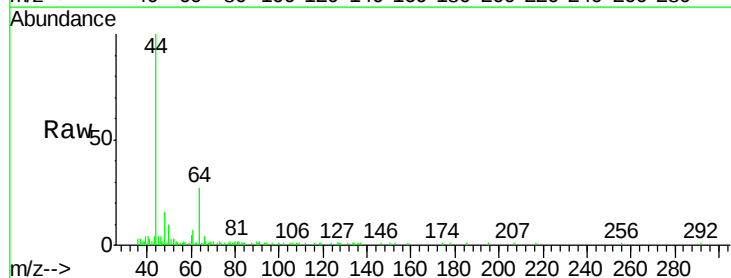
Acq: 21 Jan 2019 18:54

Tgt Ion: 50 Resp: 1009

Ion Ratio Lower Upper

50 100

52 39.6 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

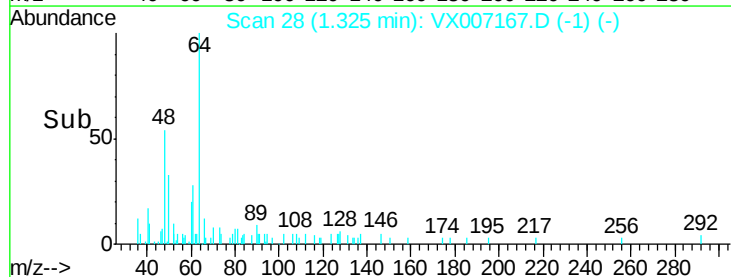
600

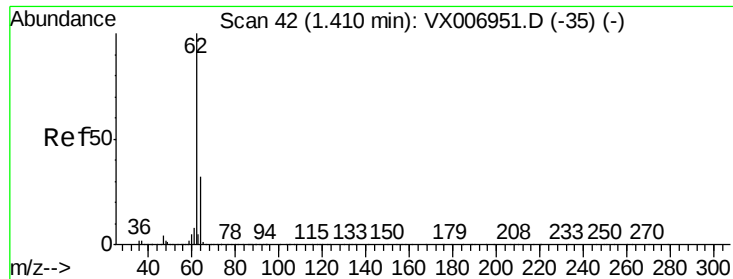
400

200

0

Time-->





#4

Vinyl Chloride

Concen: 0.283 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX007167.D

Acq: 21 Jan 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

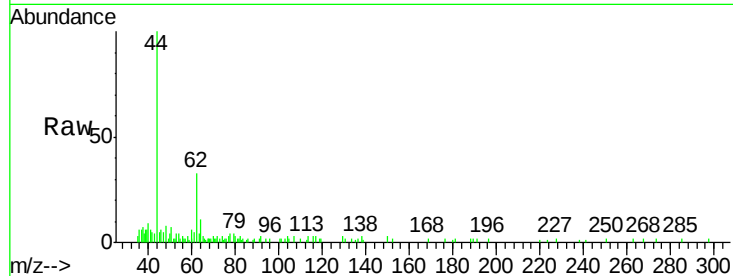
SS037MW036-190116DL

Tot Ion: 62 Resp: 1489

Ion Ratio Lower Upper

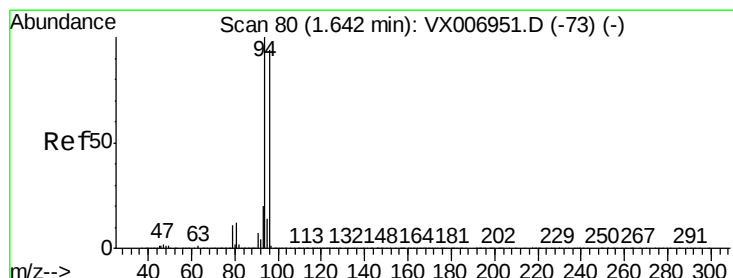
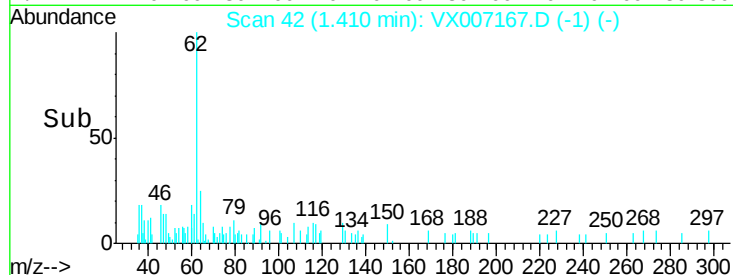
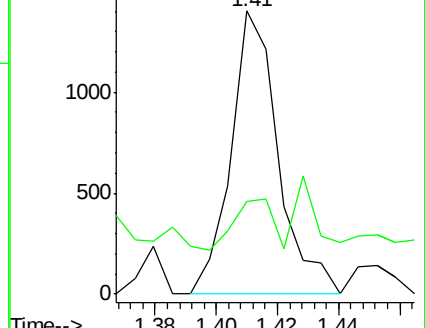
62 100

64 16.0 25.1 37.7#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.391 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX007167.D

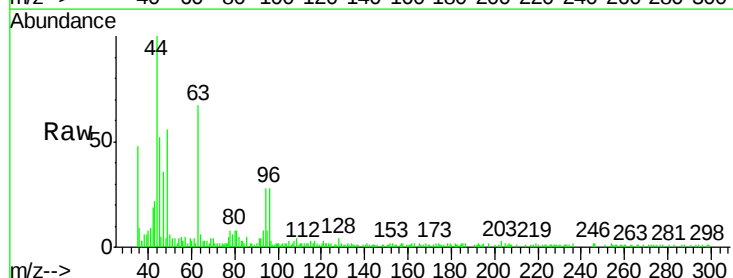
Acq: 21 Jan 2019 18:54

Tgt Ion: 94 Resp: 2195

Ion Ratio Lower Upper

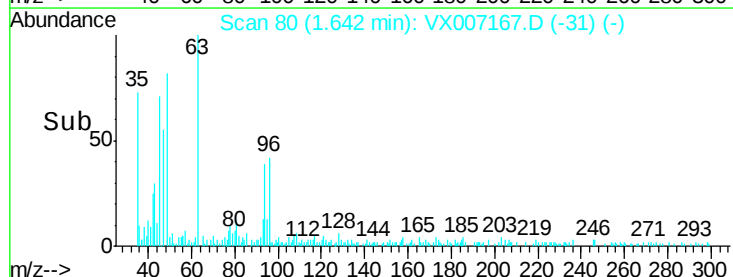
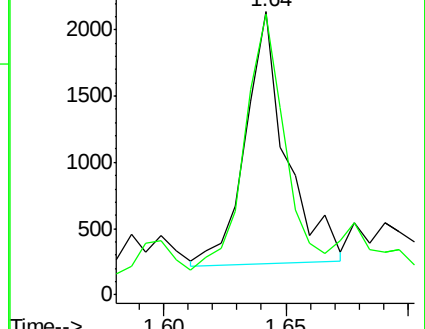
94 100

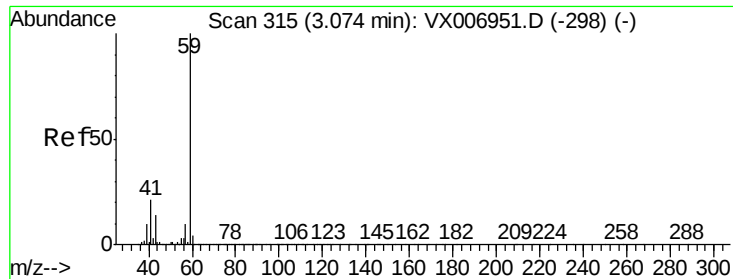
96 102.7 73.4 110.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



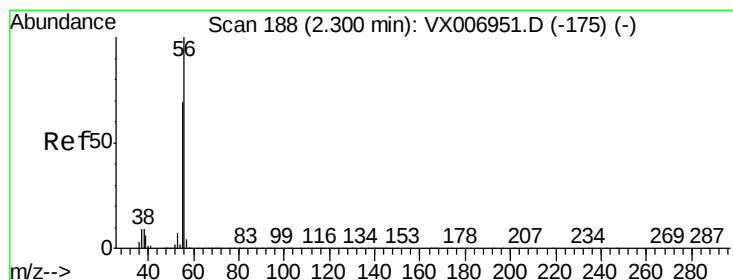
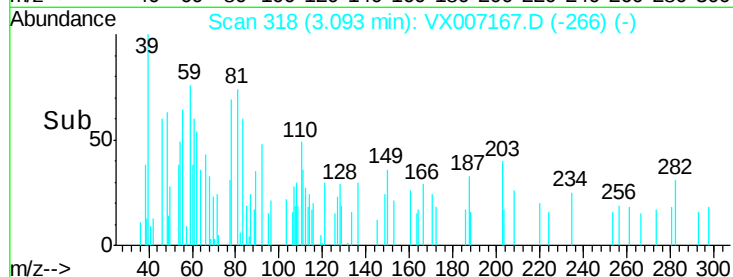
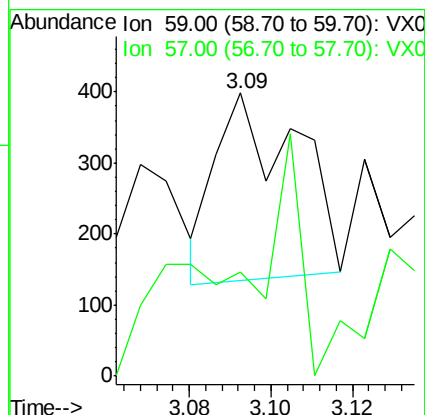
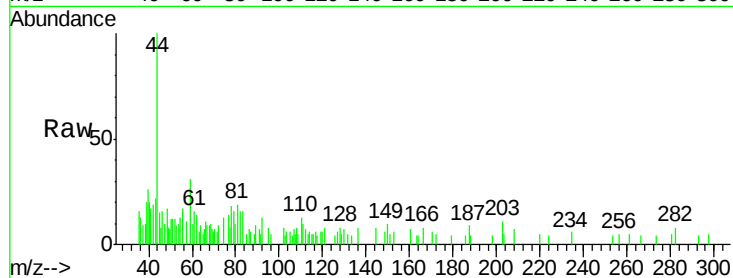


#11

Tert butyl alcohol
 Concen: 0.286 ug/l
 RT: 3.09 min Scan# 318
 Delta R.T. 0.02 min
 Lab File: VX007167.D
 Acq: 21 Jan 2019 18:54

Instrument :
 MSVOA_X
 ClientSampleId :
 SS037MW036-190116DL

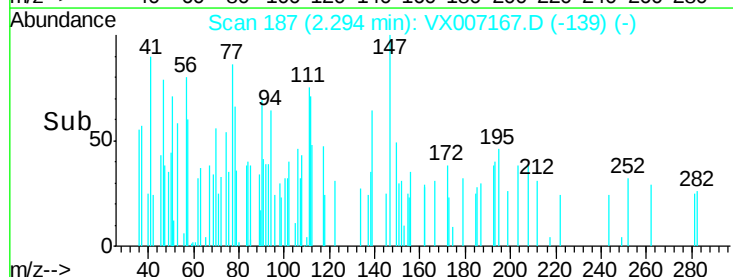
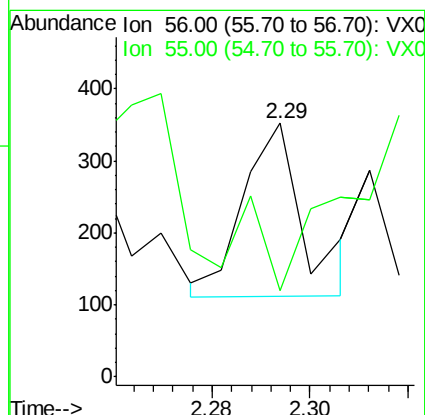
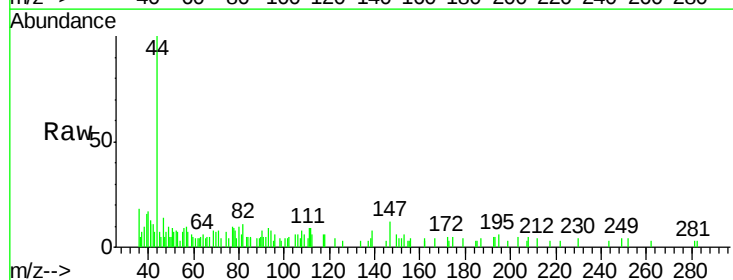
Tot Ion: 59 Resp: 360
 Ion Ratio Lower Upper
 59 100
 57 41.7 8.5 12.7#

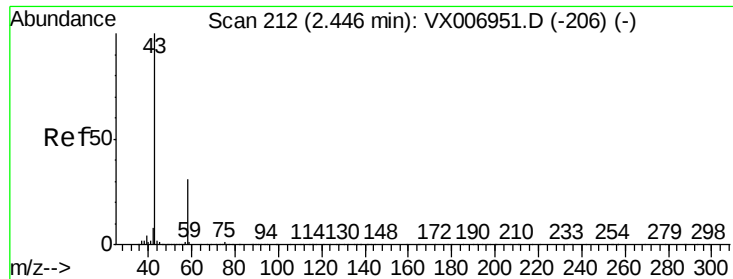


#13

Acrolein
 Concen: 3.455 ug/l
 RT: 2.29 min Scan# 187
 Delta R.T. -0.01 min
 Lab File: VX007167.D
 Acq: 21 Jan 2019 18:54

Tgt Ion: 56 Resp: 204
 Ion Ratio Lower Upper
 56 100
 55 0.0 58.2 87.4#





#16

Acetone

Concen: 0.739 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007167.D

Acq: 21 Jan 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

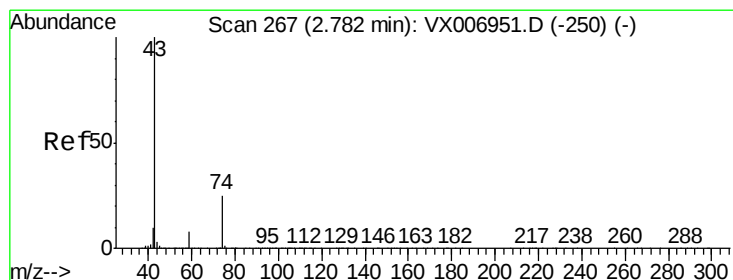
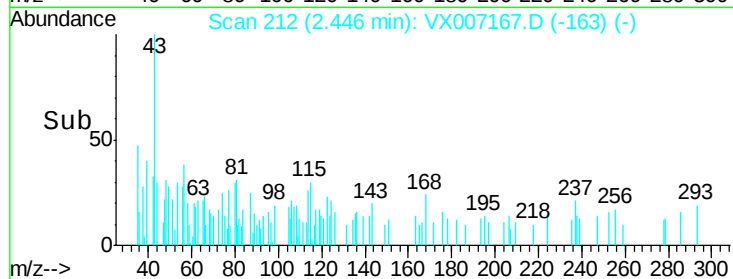
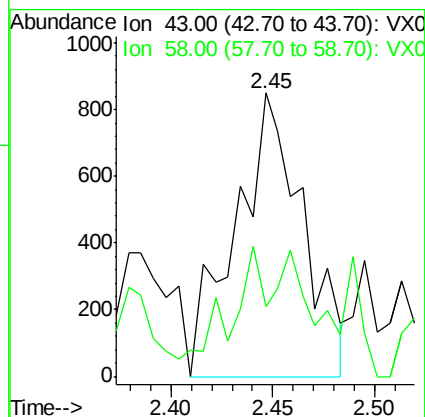
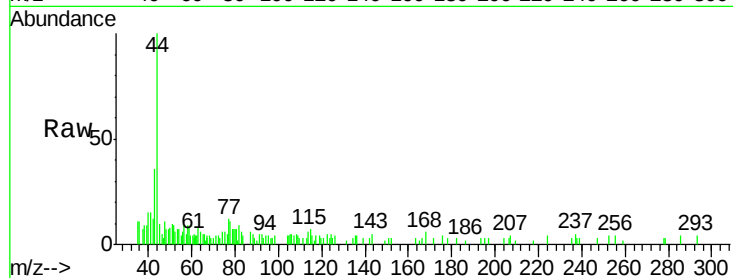
SS037MW036-190116DL

Tot Ion: 43 Resp: 1951

Ion Ratio Lower Upper

43 100

58 15.4 25.0 37.6#



#18

Methyl Acetate

Concen: 0.295 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX007167.D

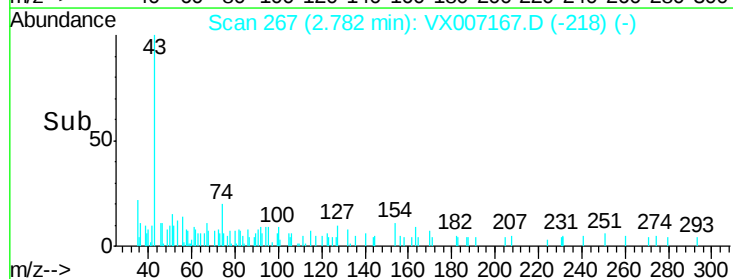
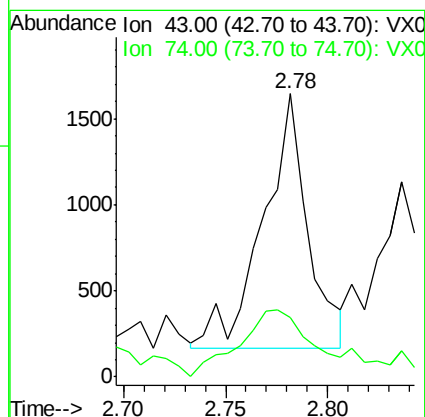
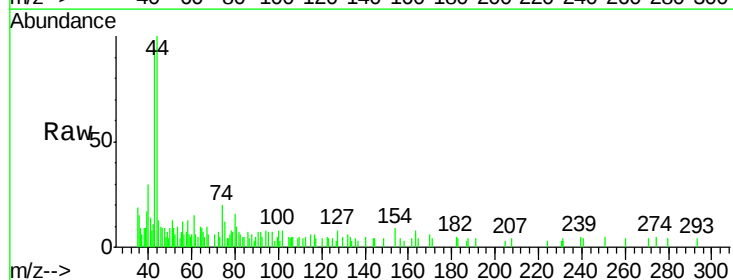
Acq: 21 Jan 2019 18:54

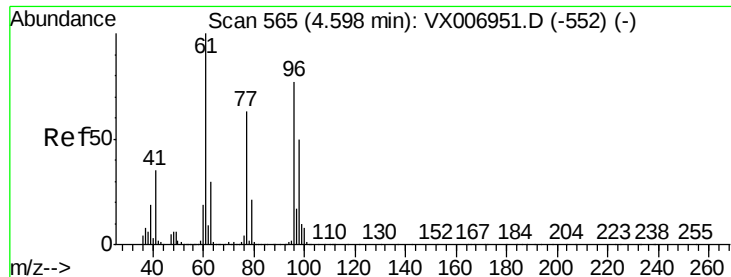
Tgt Ion: 43 Resp: 2254

Ion Ratio Lower Upper

43 100

74 48.8 18.6 28.0#



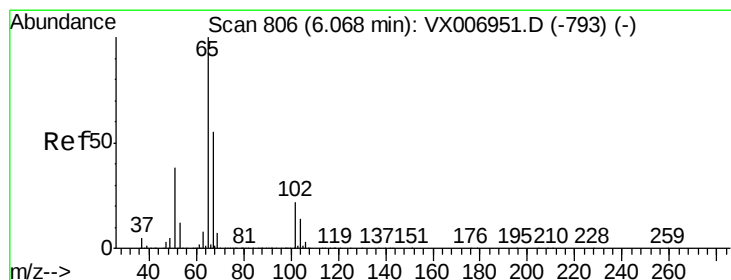
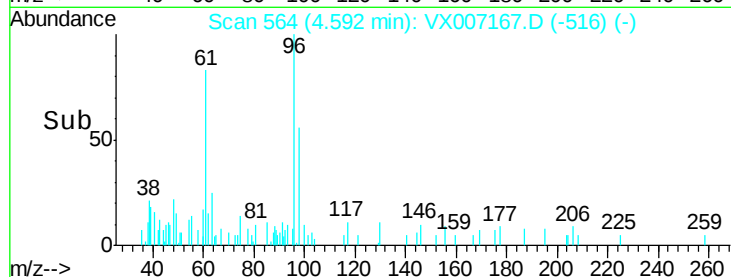
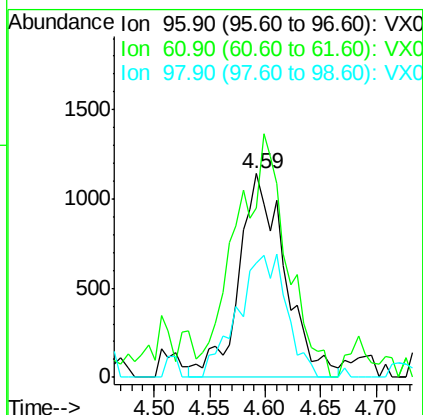
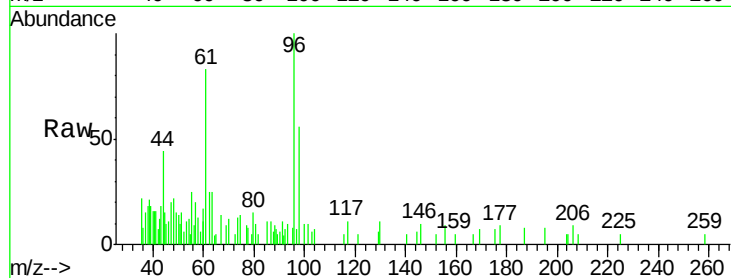


#27

cis-1,2-Dichloroethene
Concen: 0.568 ug/l
RT: 4.59 min Scan# 564
Delta R.T. -0.01 min
Lab File: VX007167.D
Acq: 21 Jan 2019 18:54

Instrument :
MSVOA_X
ClientSampleId :
SS037MW036-190116DL

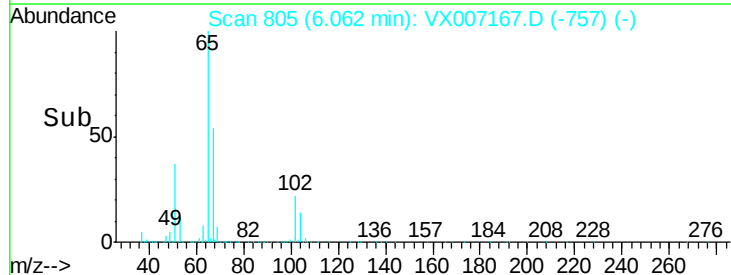
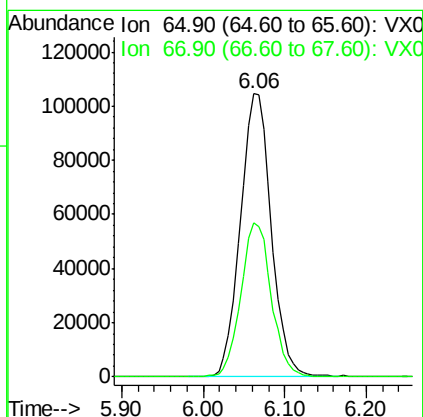
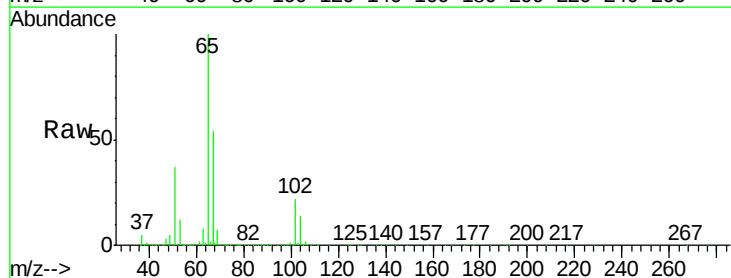
Tot Ion: 96 Resp: 3279
Ion Ratio Lower Upper
96 100
61 132.1 0.0 258.6
98 63.8 0.0 132.0

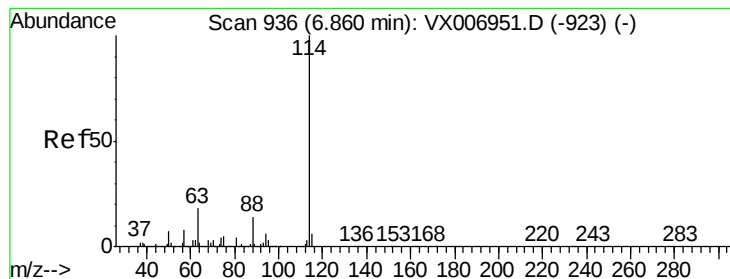


#33

1,2-Dichloroethane-d4
Concen: 51.530 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.01 min
Lab File: VX007167.D
Acq: 21 Jan 2019 18:54

Tgt Ion: 65 Resp: 275230
Ion Ratio Lower Upper
65 100
67 53.8 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007167.D

Acq: 21 Jan 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

SS037MW036-190116DL

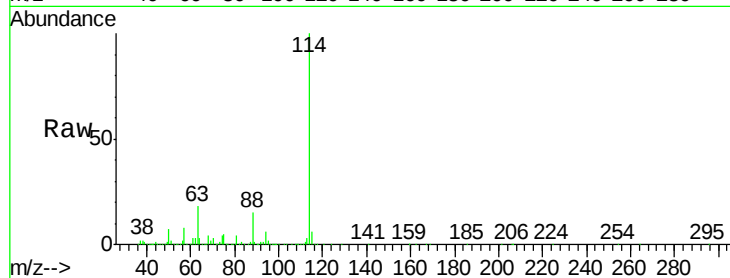
Tot Ion:114 Resp: 795490

Ion Ratio Lower Upper

114 100

63 17.5 0.0 34.8

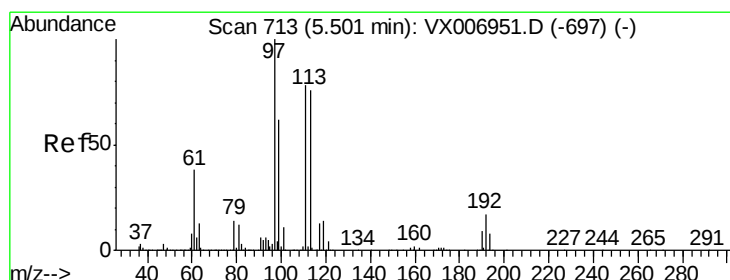
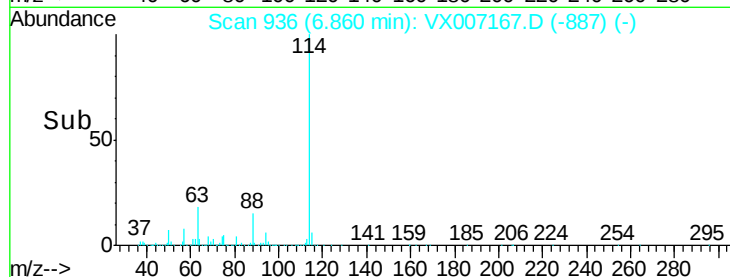
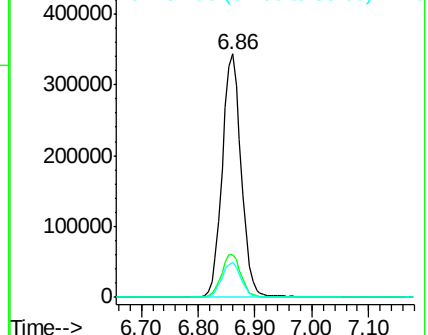
88 14.5 0.0 28.8



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



#35

Dibromofluoromethane

Concen: 47.671 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX007167.D

Acq: 21 Jan 2019 18:54

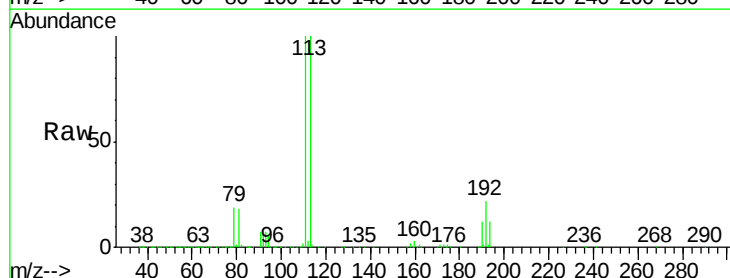
Tgt Ion:113 Resp: 242849

Ion Ratio Lower Upper

113 100

111 101.5 81.6 122.4

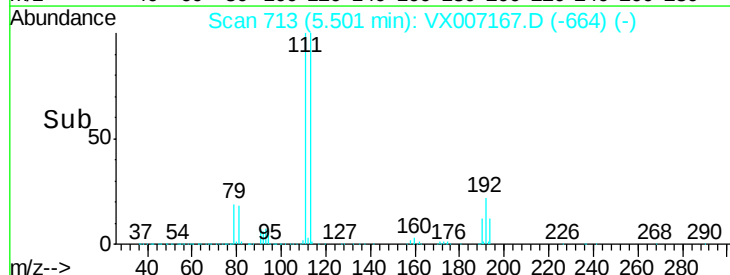
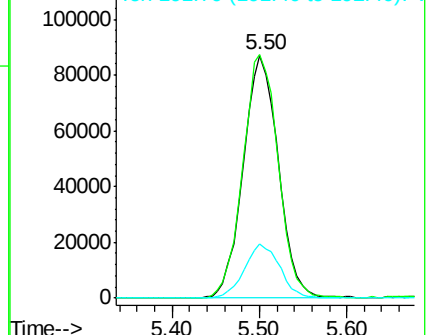
192 22.4 16.7 25.1

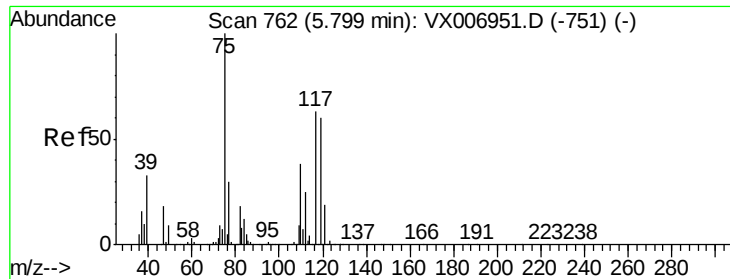


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.635 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007167.D

Acq: 21 Jan 2019 18:54

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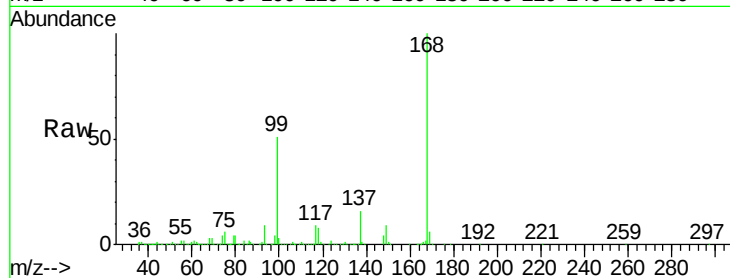
Tot Ion: 75 Resp: 32055

Ion Ratio Lower Upper

75 100

110 11.8 20.2 60.5#

77 0.2 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX006951.D (-751) (-)

Ion 109.90 (109.60 to 110.60): VX006951.D (-751) (-)

Ion 76.90 (76.60 to 77.60): VX006951.D (-751) (-)

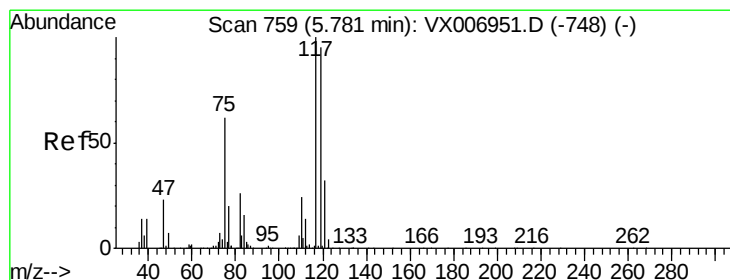
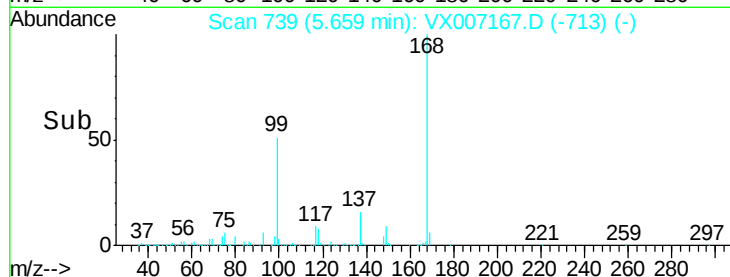
5.66

10000

5000

0

Time-->



#38

Carbon Tetrachloride

Concen: 6.649 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX007167.D

Acq: 21 Jan 2019 18:54

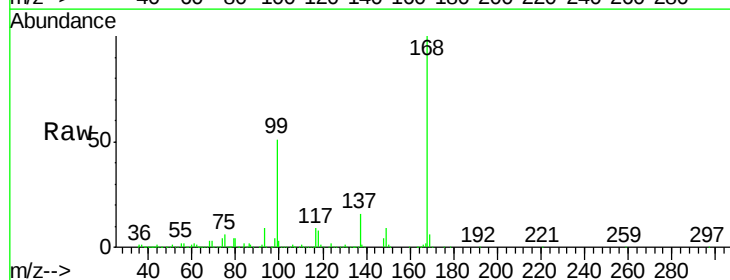
Tgt Ion: 117 Resp: 46264

Ion Ratio Lower Upper

117 100

119 5.4 79.4 119.2#

121 0.0 24.0 36.0#



Abundance Ion 116.80 (116.50 to 117.50): VX006951.D (-748) (-)

Ion 118.80 (118.50 to 119.50): VX006951.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX006951.D (-748) (-)

5.66

20000

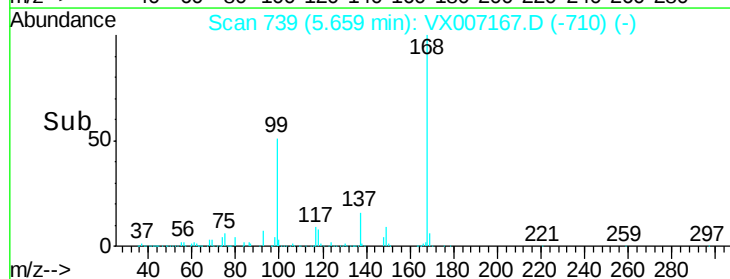
15000

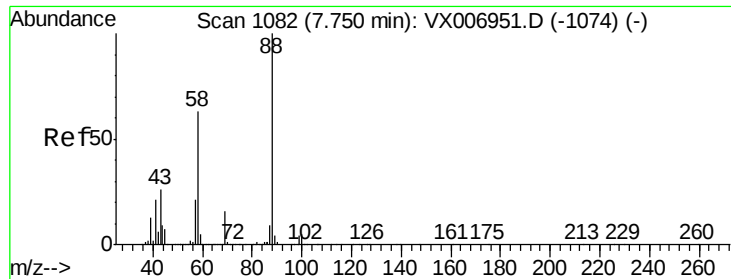
10000

5000

0

Time-->





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX007167.D

Acq: 21 Jan 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

SS037MW036-190116DL

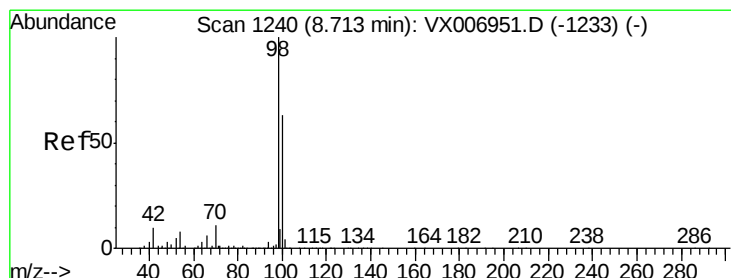
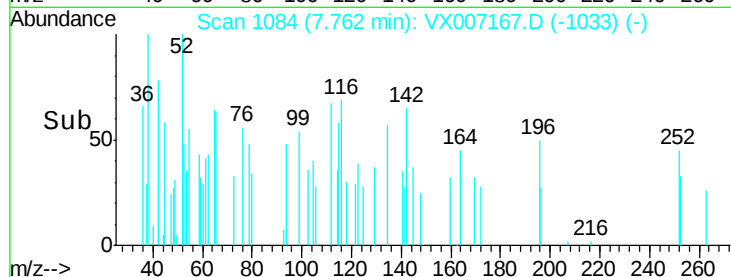
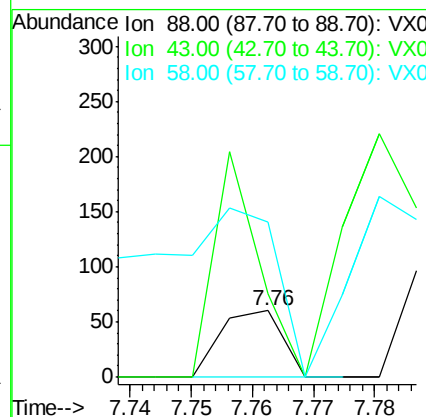
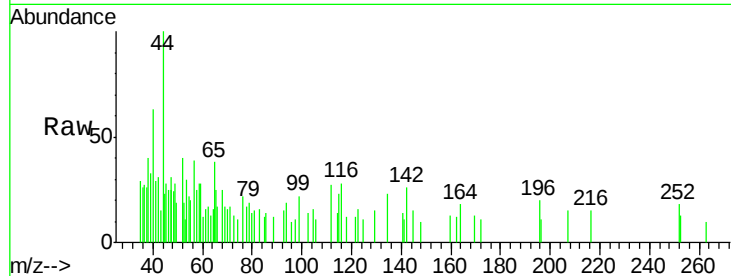
Tot Ion: 88 Resp: 42

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

58 257.1 51.0 76.4#



#50

Toluene-d8

Concen: 51.465 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007167.D

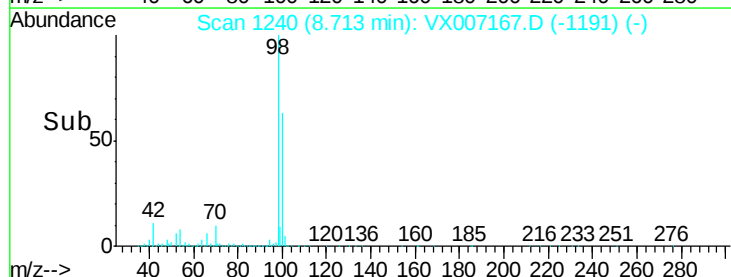
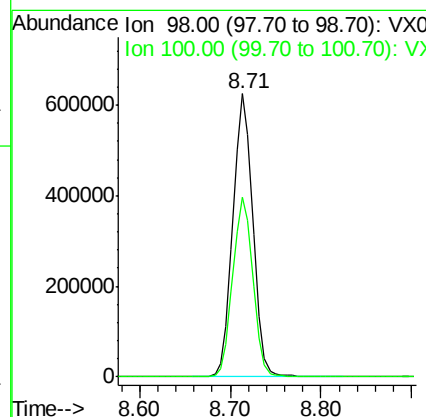
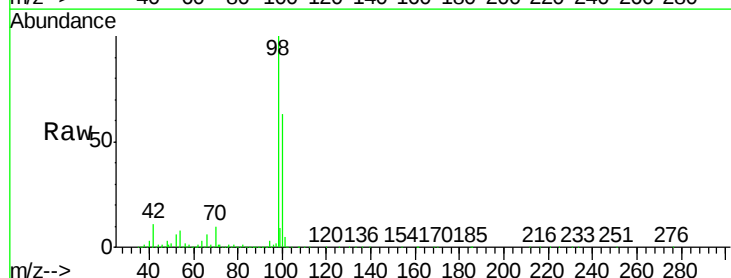
Acq: 21 Jan 2019 18:54

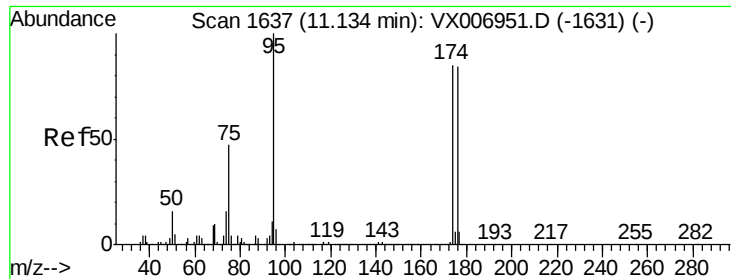
Tgt Ion: 98 Resp: 959656

Ion Ratio Lower Upper

98 100

100 64.2 52.0 78.0





#62

4-Bromofluorobenzene

Concen: 52.646 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007167.D

Acq: 21 Jan 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

SS037MW036-190116DL

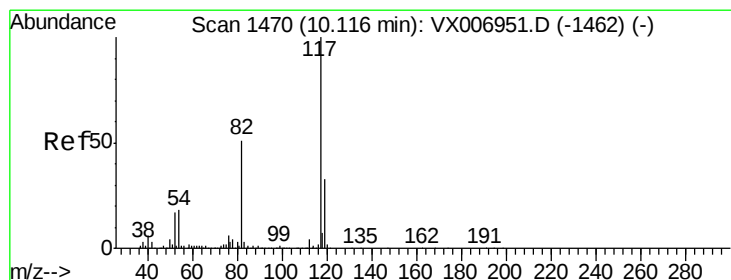
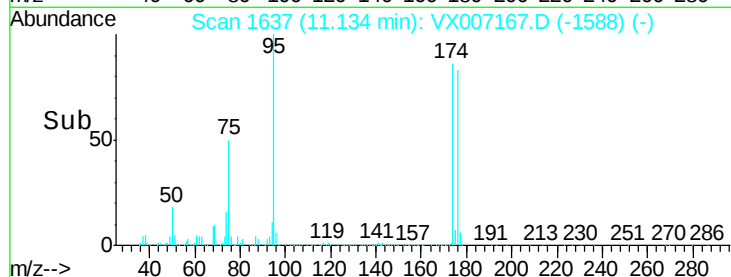
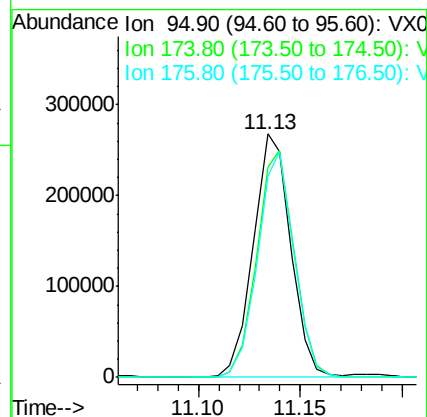
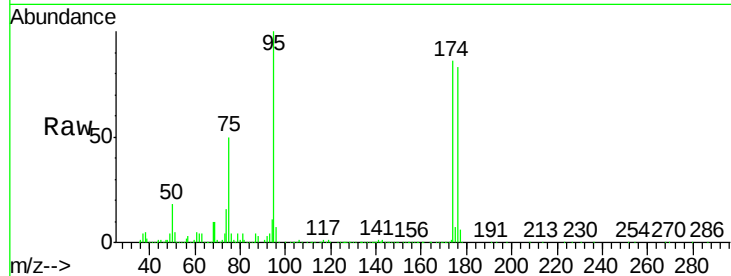
Tot Ion: 95 Resp: 342236

Ion Ratio Lower Upper

95 100

174 93.5 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: VX007167.D

Acq: 21 Jan 2019 18:54

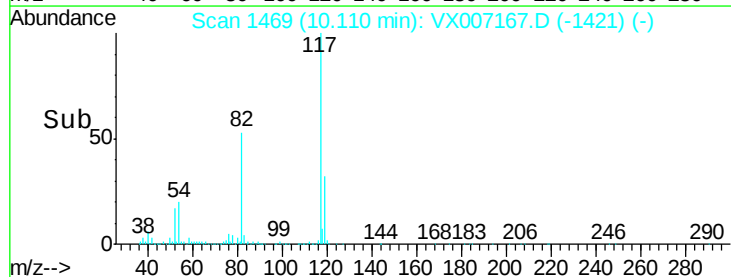
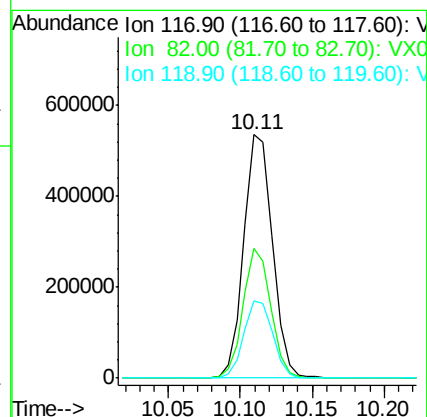
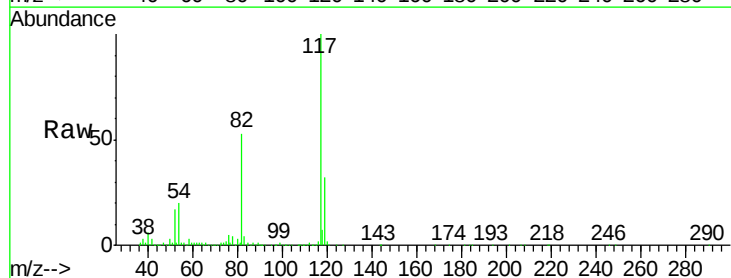
Tgt Ion: 117 Resp: 742836

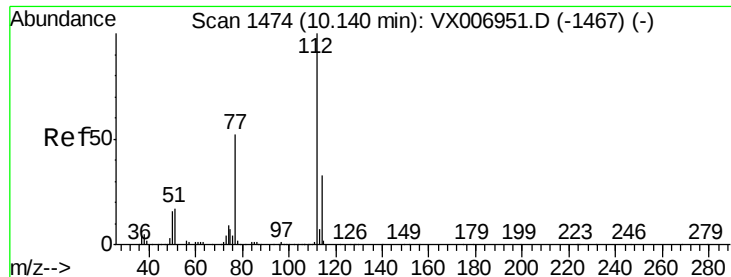
Ion Ratio Lower Upper

117 100

82 53.0 41.0 61.6

119 32.0 25.4 38.0





#65

Chlorobenzene

Concen: 39.392 ug/l

RT: 10.13 min Scan# 1473

Delta R.T. -0.01 min

Lab File: VX007167.D

Acq: 21 Jan 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

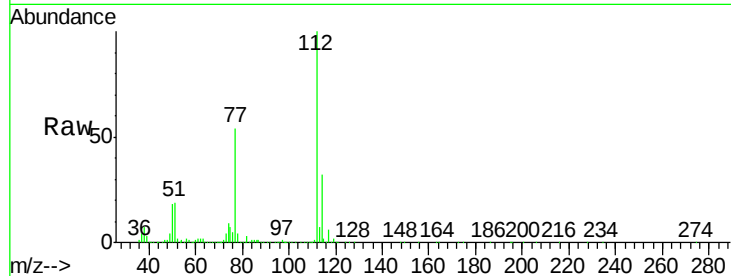
SS037MW036-190116DL

Tot Ion:112 Resp: 638222

Ion Ratio Lower Upper

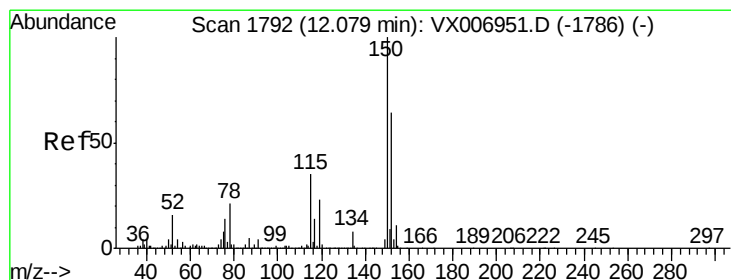
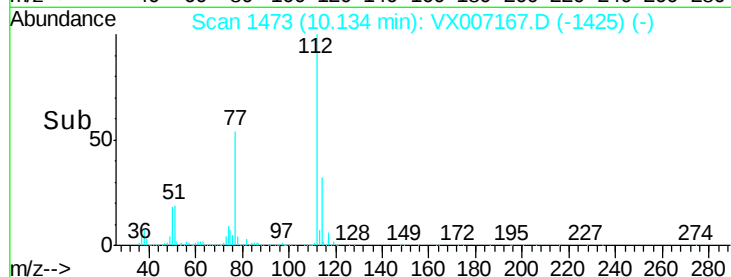
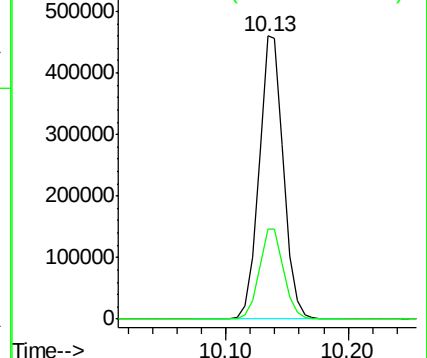
112 100

114 31.9 25.7 38.5



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): 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: VX007167.D

Acq: 21 Jan 2019 18:54

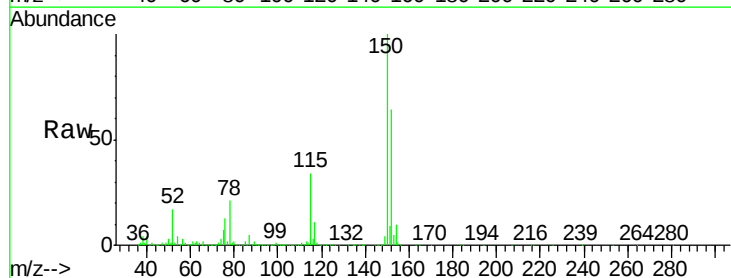
Tgt Ion:152 Resp: 381302

Ion Ratio Lower Upper

152 100

115 54.3 39.1 117.2

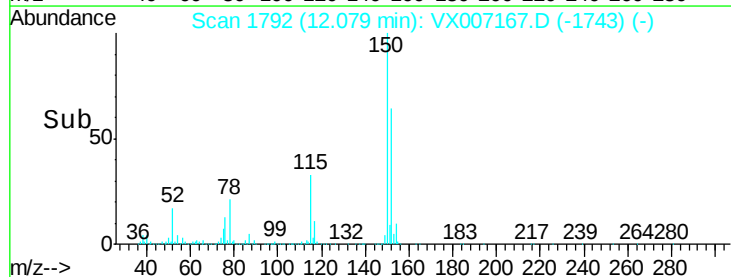
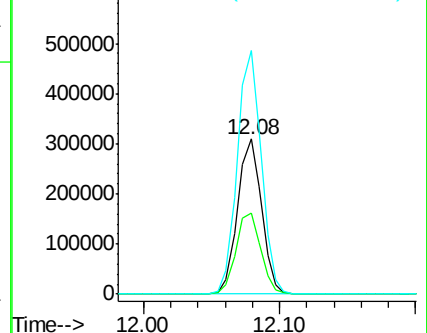
150 157.3 0.0 344.8

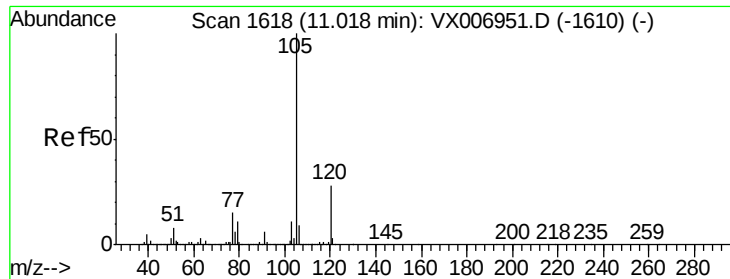


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 0.248 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX007167.D

Acq: 21 Jan 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

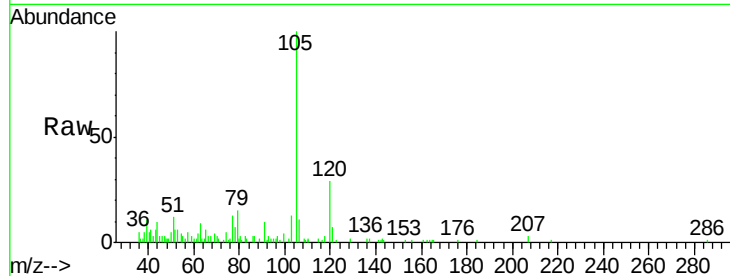
SS037MW036-190116DL

Tot Ion:105 Resp: 6681

Ion Ratio Lower Upper

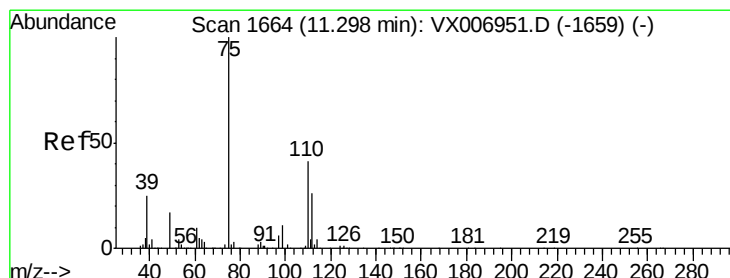
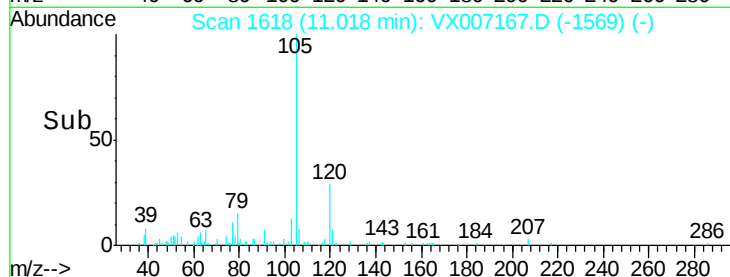
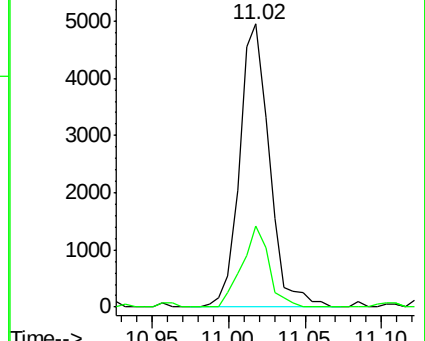
105 100

120 25.7 14.1 42.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#76

1,2,3-Trichloropropane

Concen: 21.606 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007167.D

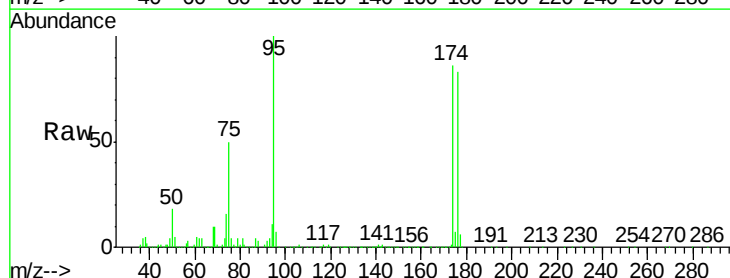
Acq: 21 Jan 2019 18:54

Tgt Ion: 75 Resp: 166944

Ion Ratio Lower Upper

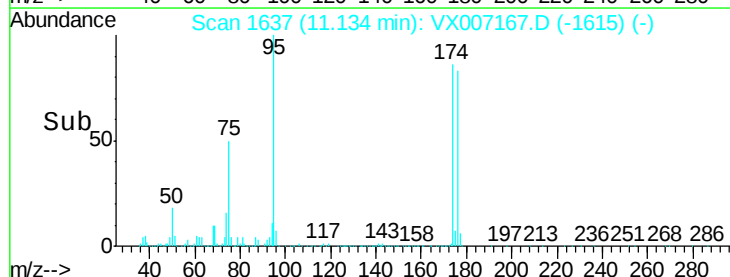
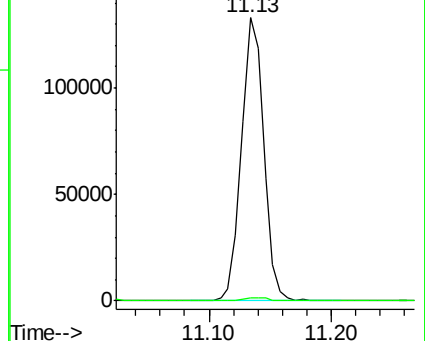
75 100

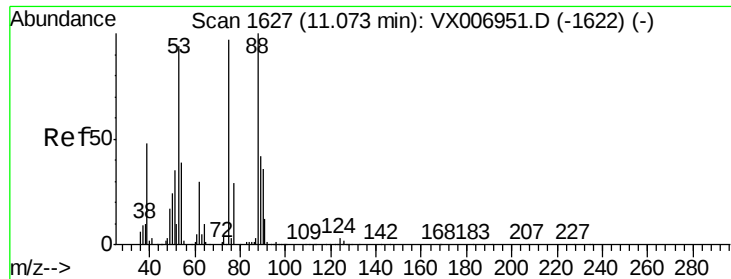
77 1.2 18.5 55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

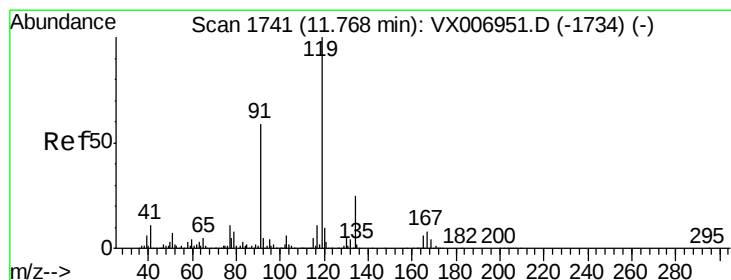
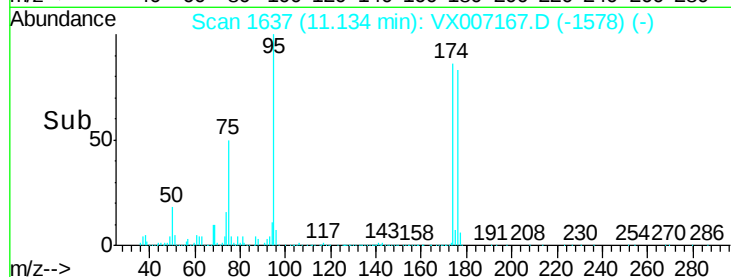
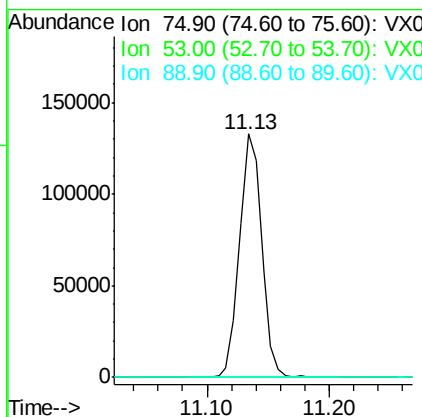
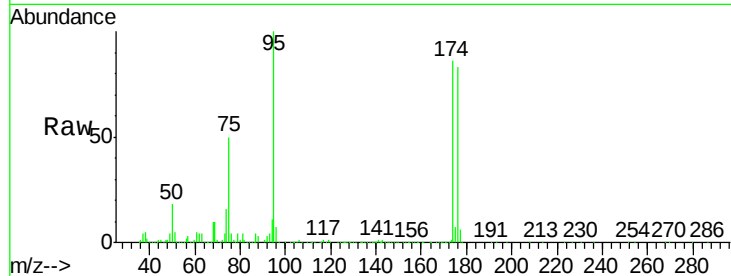




#81
trans-1,4-Dichloro-2-butene
Concen: 64.052 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX007167.D
Acq: 21 Jan 2019 18:54

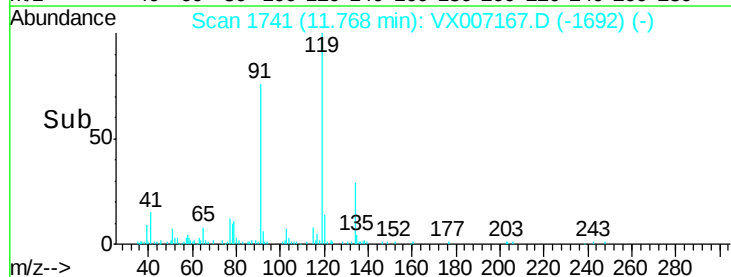
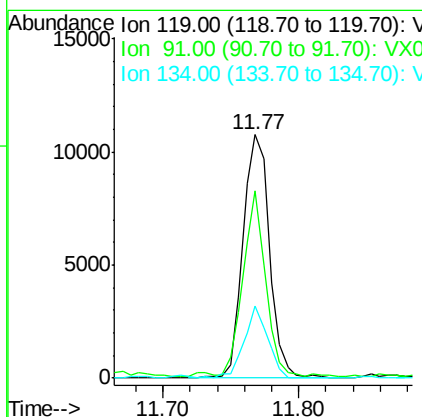
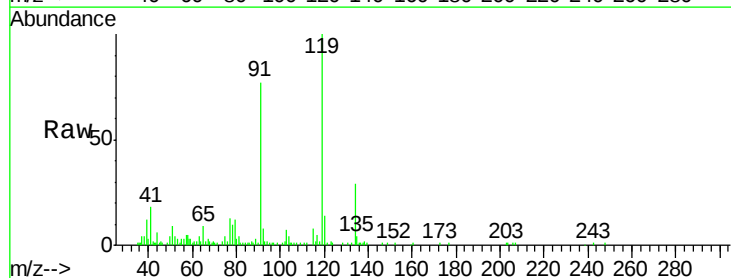
Instrument :
MSVOA_X
ClientSampleId :
SS037MW036-190116DL

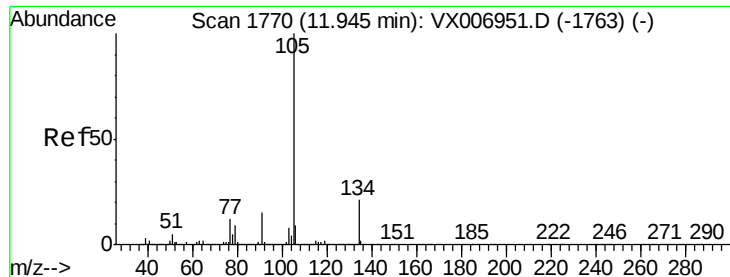
Tot Ion: 75 Resp: 166944
Ion Ratio Lower Upper
75 100
53 0.3 79.7 119.5#
89 0.1 38.0 57.0#



#83
tert-Butylbenzene
Concen: 0.653 ug/l
RT: 11.77 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VX007167.D
Acq: 21 Jan 2019 18:54

Tgt Ion: 119 Resp: 14639
Ion Ratio Lower Upper
119 100
91 67.6 27.7 83.1
134 26.5 11.9 35.5





#85

sec-Butylbenzene

Concen: 0.481 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX007167.D

Acq: 21 Jan 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

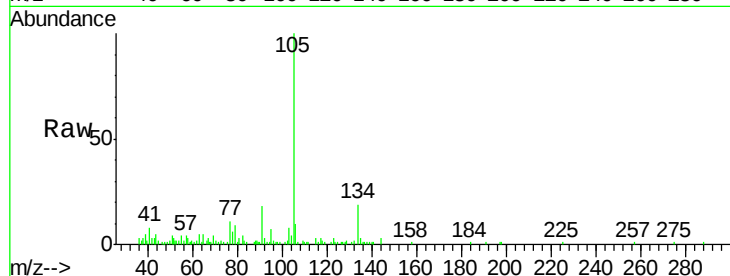
SS037MW036-190116DL

Tot Ion:105 Resp: 12880

Ion Ratio Lower Upper

105 100

134 19.4 10.7 31.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

11.94

12000

10000

8000

6000

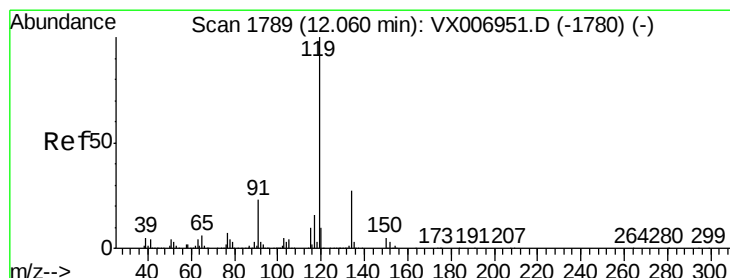
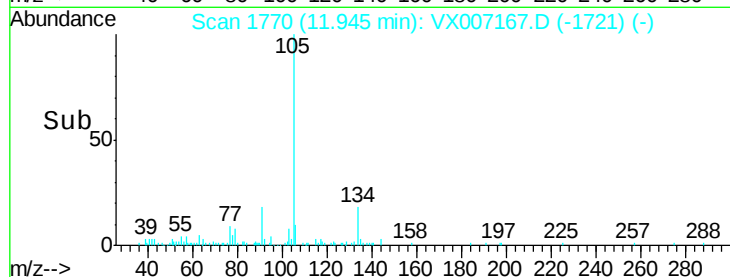
4000

2000

0

Time-->

11.90 11.95 12.00



#86

p-Isopropyltoluene

Concen: 2.551 ug/l

RT: 12.23 min Scan# 1817

Delta R.T. 0.17 min

Lab File: VX007167.D

Acq: 21 Jan 2019 18:54

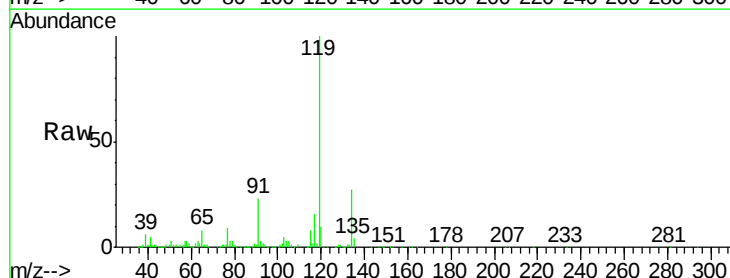
Tgt Ion:119 Resp: 61080

Ion Ratio Lower Upper

119 100

134 28.2 14.0 41.9

91 23.3 11.3 33.9



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

12.23

60000

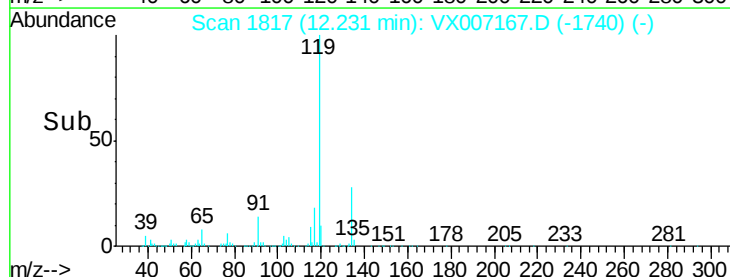
40000

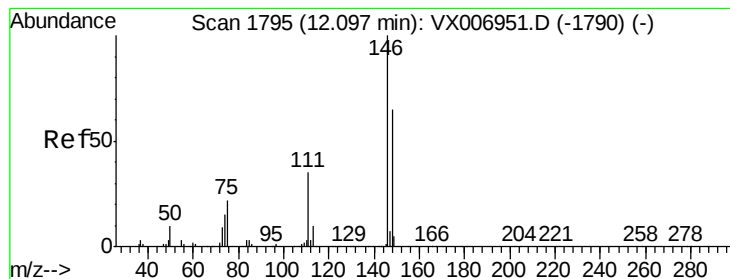
20000

0

Time-->

12.20 12.25





#88

1,4-Dichlorobenzene

Concen: 0.226 ug/l

RT: 12.03 min Scan# 1784

Delta R.T. -0.07 min

Lab File: VX007167.D

Acq: 21 Jan 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

SS037MW036-190116DL

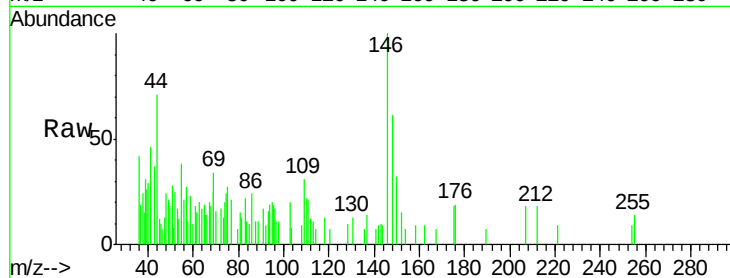
Tot Ion:146 Resp: 1025

Ion Ratio Lower Upper

146 100

111 51.7 18.1 54.1

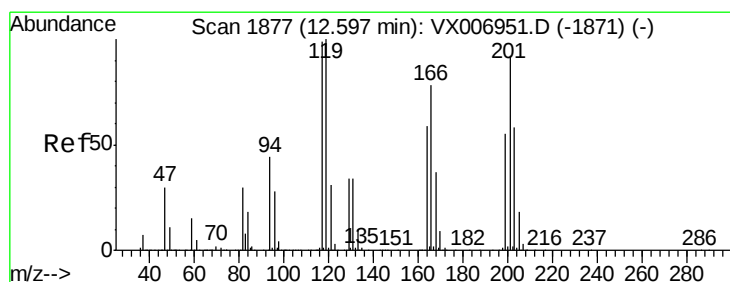
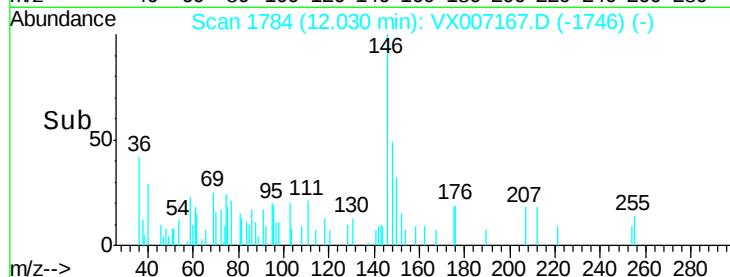
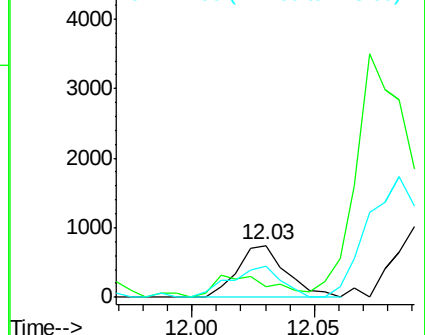
148 64.3 31.9 95.9



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



#90

Hexachloroethane

Concen: 6.001 ug/l

RT: 12.70 min Scan# 1894

Delta R.T. 0.10 min

Lab File: VX007167.D

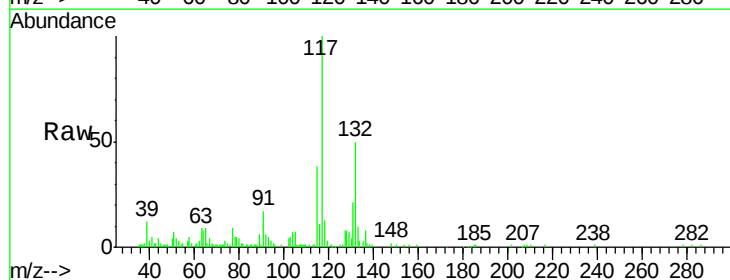
Acq: 21 Jan 2019 18:54

Tgt Ion:117 Resp: 12554

Ion Ratio Lower Upper

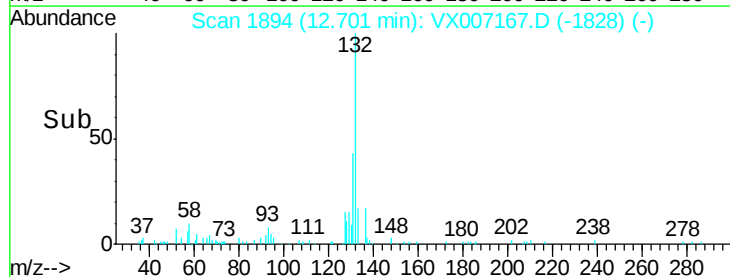
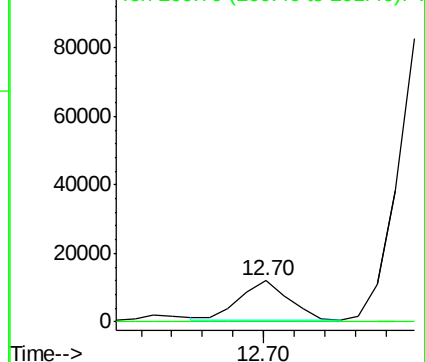
117 100

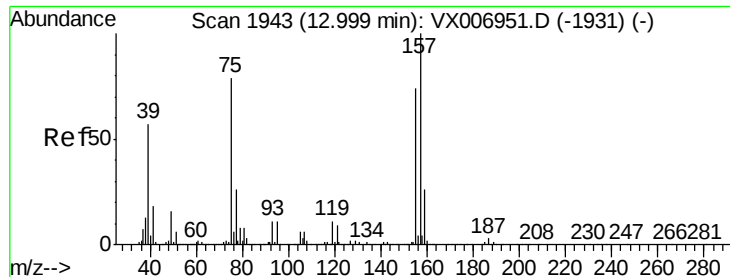
201 0.0 42.9 128.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.242 ug/l

RT: 12.97 min Scan# 1938

Delta R.T. -0.03 min

Lab File: VX007167.D

Acq: 21 Jan 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

SS037MW036-190116DL

Tot Ion: 75 Resp: 409

Ion Ratio Lower Upper

75 100

155 0.0 50.6 151.8#

157 0.0 64.6 193.8#

