

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071719\
 Data File : VX010936.D
 Acq On : 17 Jul 2019 15:19
 Operator : JC/SP
 Sample : K3855-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS050MW641-190716

Quant Time: Jul 18 02:30:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 17 06:57:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	211224	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	334711	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	311232	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	143442	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	111502	49.62	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.24%	
35) Dibromofluoromethane	5.50	113	103773	48.85	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.70%	
50) Toluene-d8	8.71	98	402868	50.56	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.12%	
62) 4-Bromofluorobenzene	11.13	95	139725	47.71	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.42%	

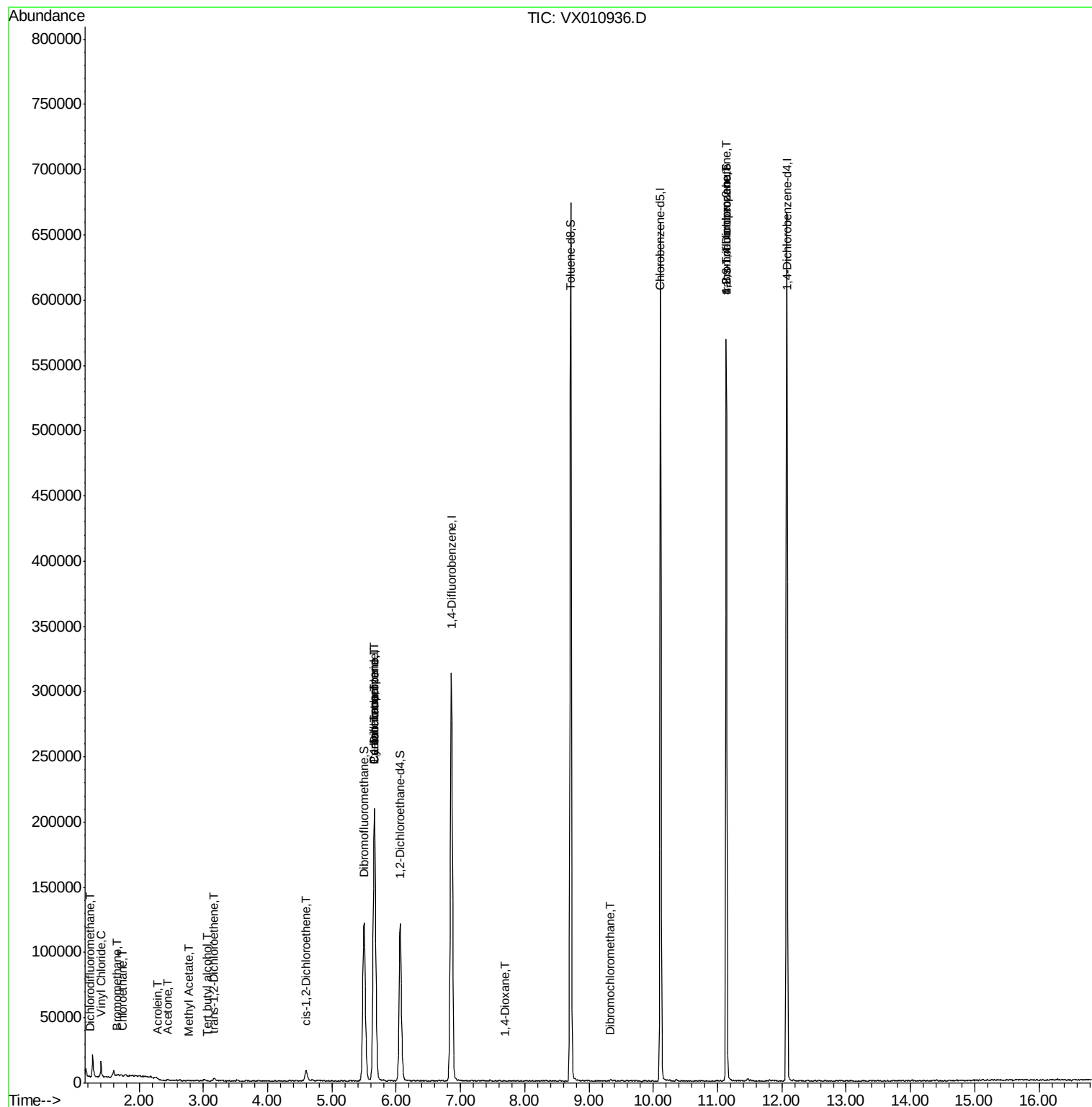
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.23	85	38	0.563	ug/l #	43
4) Vinyl Chloride	1.41	62	7503	3.787	ug/l	99
5) Bromomethane	1.65	94	504	0.451	ug/l #	67
6) Chloroethane	1.75	64	855	0.679	ug/l #	51
11) Tert butyl alcohol	3.06	59	121	0.231	ug/l #	1
13) Acrolein	2.29	56	147	0.486	ug/l	91
16) Acetone	2.45	43	1091	1.075	ug/l	90
18) Methyl Acetate	2.78	43	469	0.203	ug/l #	65
21) trans-1,2-Dichloroethene	3.16	96	706	0.354	ug/l #	83
27) cis-1,2-Dichloroethene	4.60	96	4807	2.081	ug/l	93
31) Cyclohexane	5.65	56	4051	1.328	ug/l #	47
36) 1,1-Dichloropropene	5.66	75	14083	5.122	ug/l #	49
38) Carbon Tetrachloride	5.67	117	19528	6.816	ug/l #	17
49) 1,4-Dioxane	7.69	88	22	0.349	ug/l #	1
60) Dibromochloromethane	9.34	129	161	2.586	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	70141	27.097	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	70141	67.168	ug/l #	11

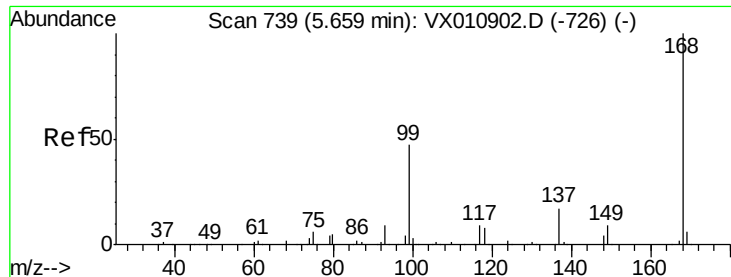
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX010936.D

Acq: 17 Jul 2019 15:19

Instrument :

MSVOA_X

ClientSampleId :

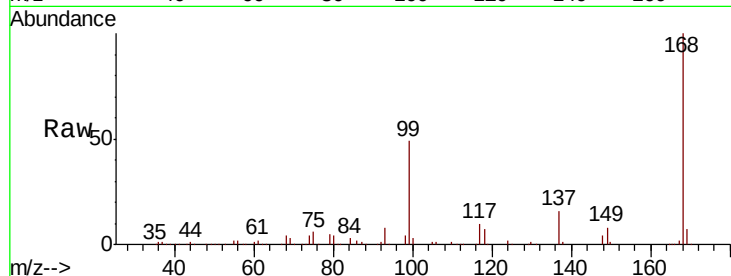
SS050MW641-190716

Tot Ion:168 Resp: 211224

Ion Ratio Lower Upper

168 100

99 49.3 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

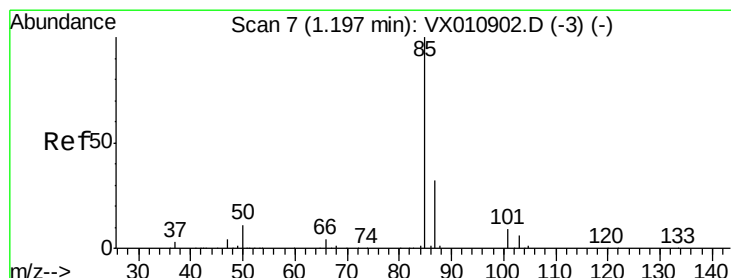
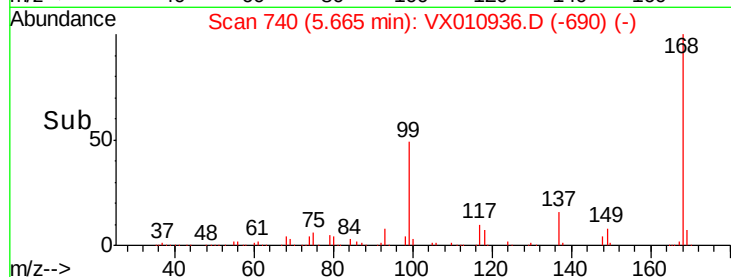
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.563 ug/l

RT: 1.23 min Scan# 12

Delta R.T. 0.03 min

Lab File: VX010936.D

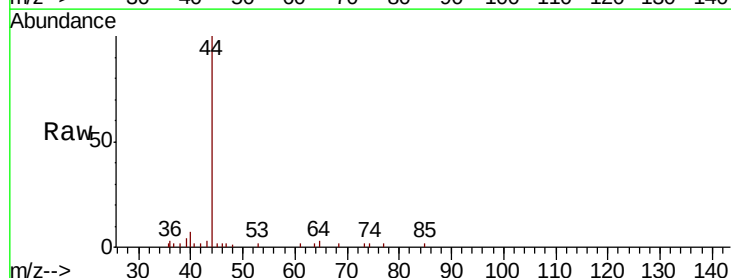
Acq: 17 Jul 2019 15:19

Tgt Ion: 85 Resp: 38

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.23

60

50

40

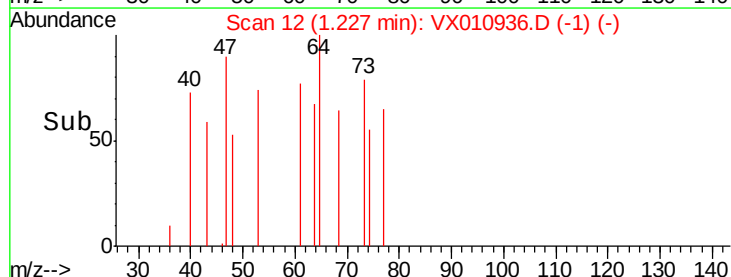
30

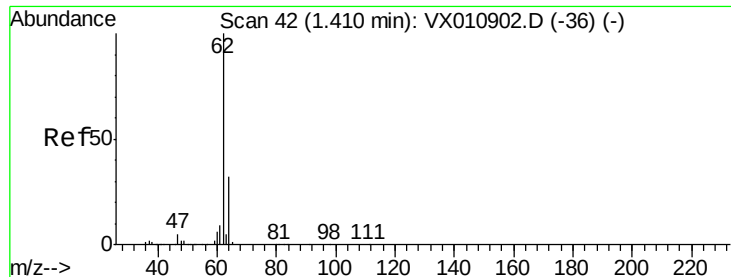
20

10

0

Time--> 1.20 1.22 1.24





#4

Vinyl Chloride

Concen: 3.787 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX010936.D

Acq: 17 Jul 2019 15:19

Instrument :

MSVOA_X

ClientSampleId :

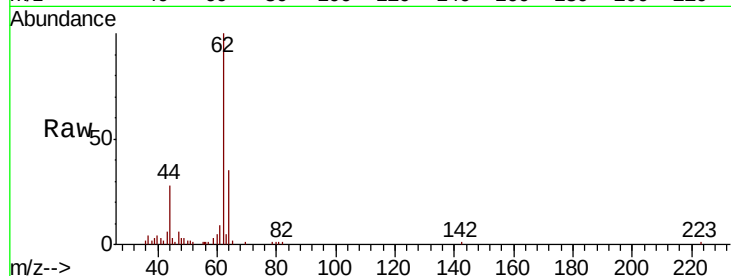
SS050MW641-190716

Tot Ion: 62 Resp: 7503

Ion Ratio Lower Upper

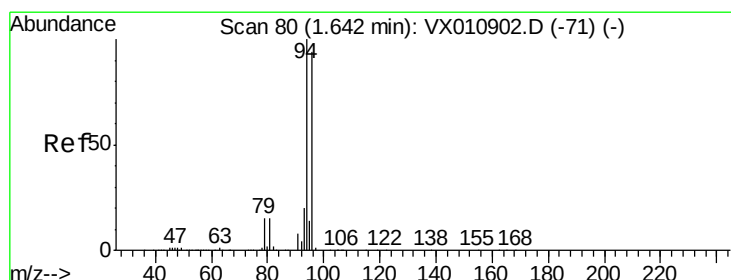
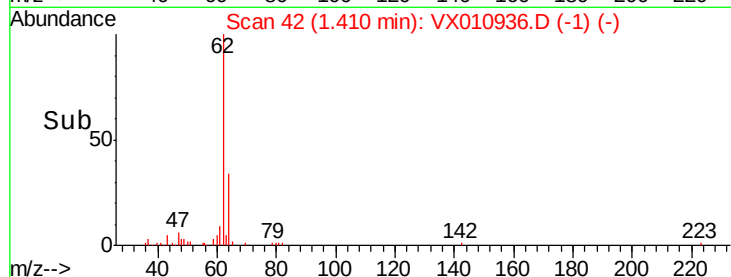
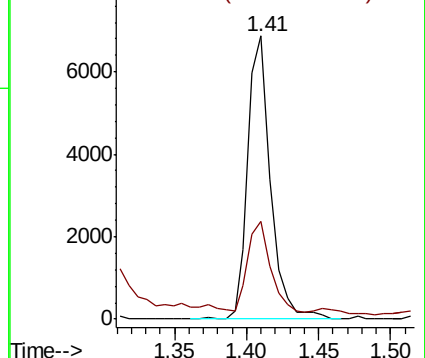
62 100

64 31.8 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.451 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX010936.D

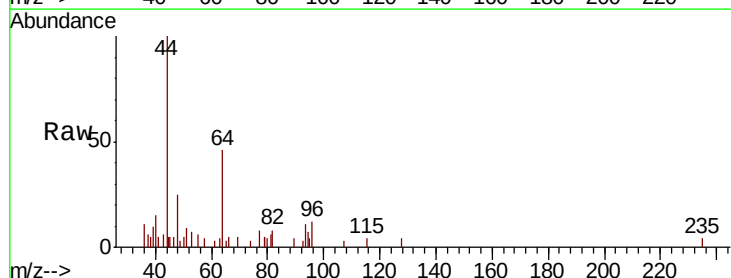
Acq: 17 Jul 2019 15:19

Tgt Ion: 94 Resp: 504

Ion Ratio Lower Upper

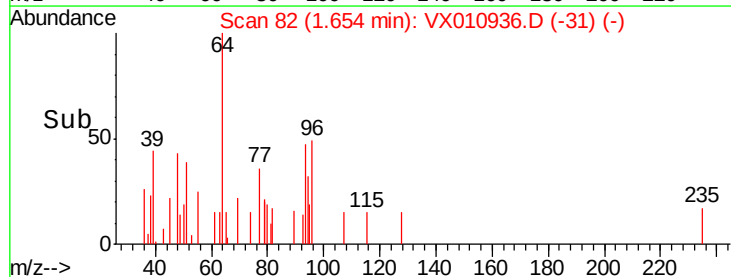
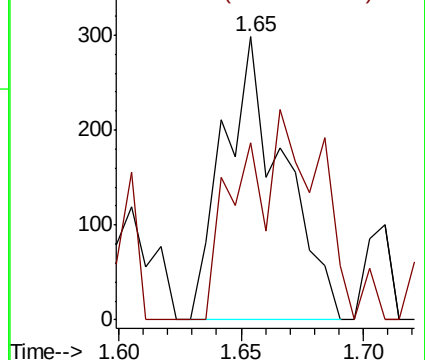
94 100

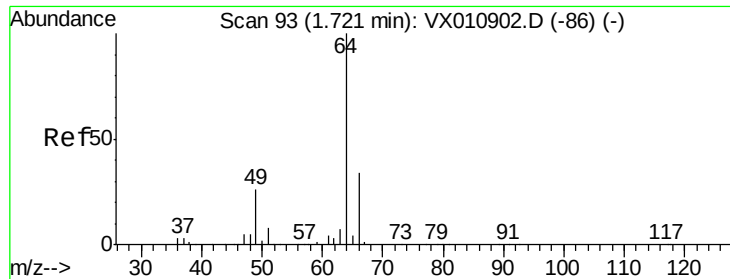
96 62.8 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.679 ug/l

RT: 1.75 min Scan# 97

Delta R.T. 0.02 min

Lab File: VX010936.D

Acq: 17 Jul 2019 15:19

Instrument :

MSVOA_X

ClientSampleId :

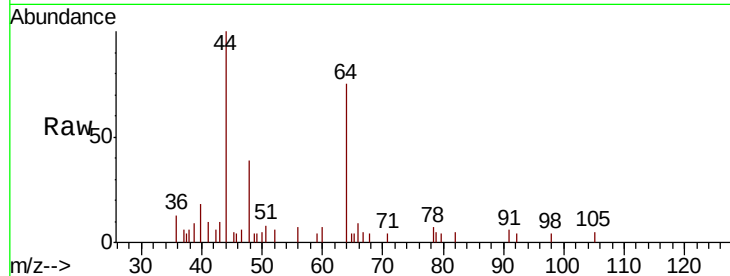
SS050MW641-190716

Tot Ion: 64 Resp: 855

Ion Ratio Lower Upper

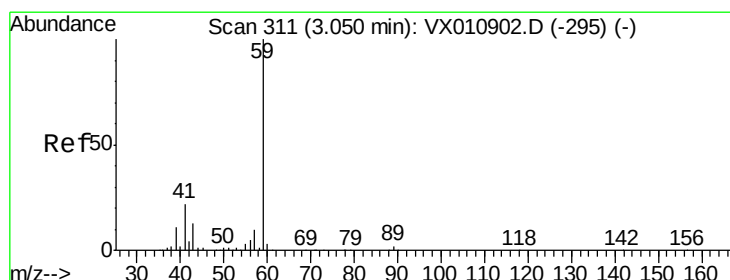
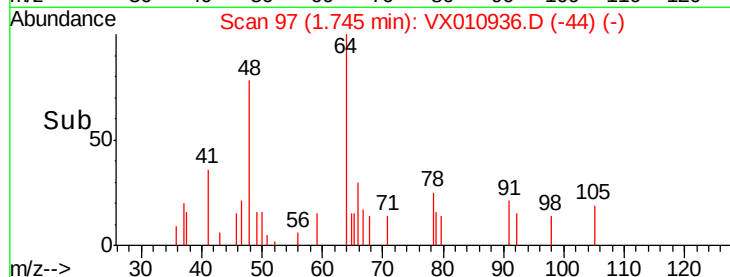
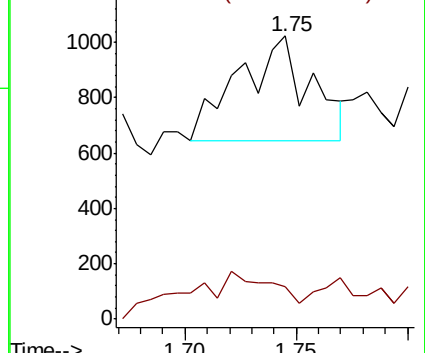
64 100

66 5.5 27.0 40.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 0.231 ug/l

RT: 3.06 min Scan# 313

Delta R.T. 0.01 min

Lab File: VX010936.D

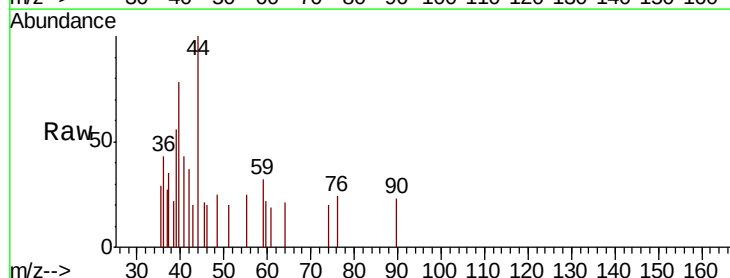
Acq: 17 Jul 2019 15:19

Tgt Ion: 59 Resp: 121

Ion Ratio Lower Upper

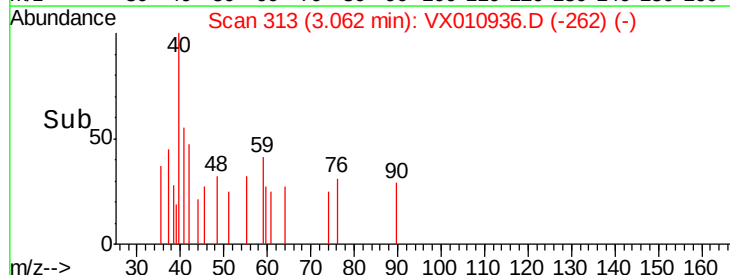
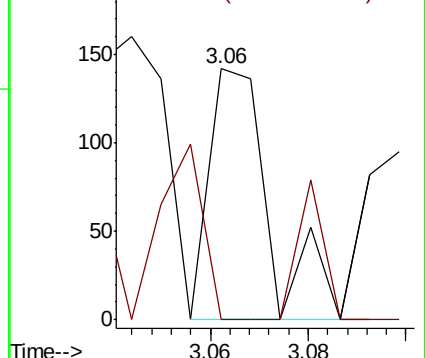
59 100

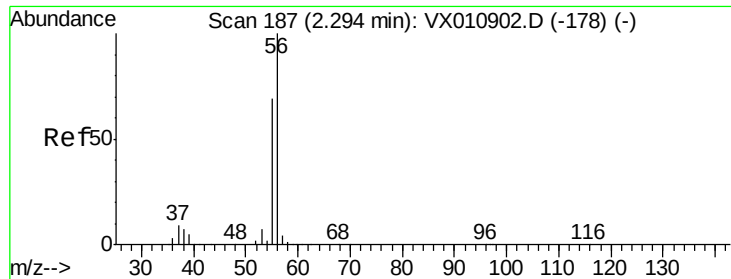
57 49.6 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.486 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX010936.D

Acq: 17 Jul 2019 15:19

Instrument :

MSVOA_X

ClientSampleId :

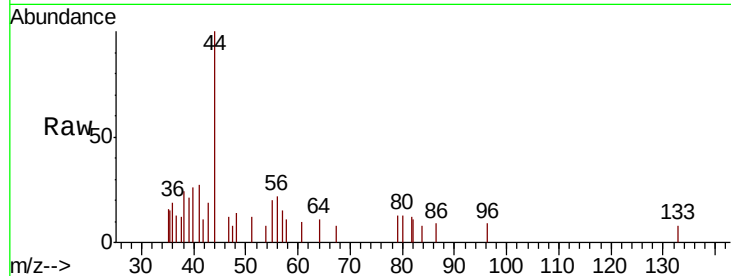
SS050MW641-190716

Tot Ion: 56 Resp: 147

Ion Ratio Lower Upper

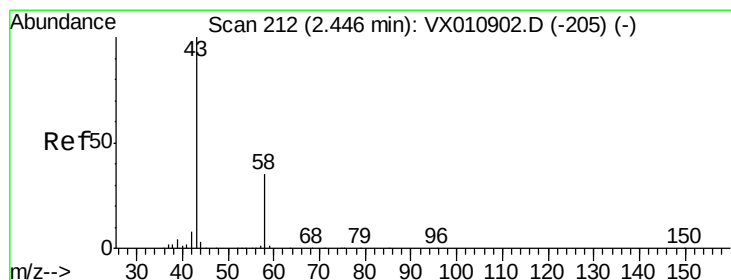
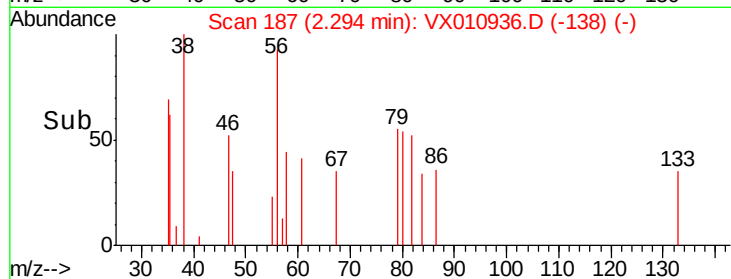
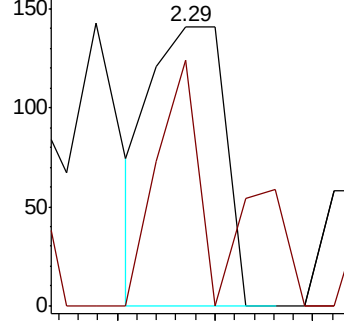
56 100

55 76.9 55.9 83.9



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 1.075 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010936.D

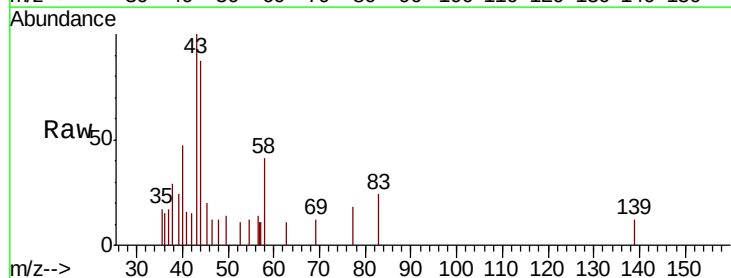
Acq: 17 Jul 2019 15:19

Tgt Ion: 43 Resp: 1091

Ion Ratio Lower Upper

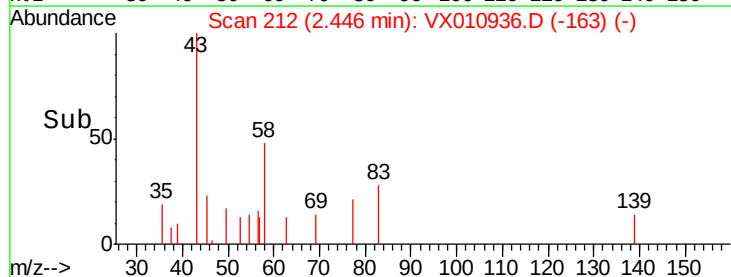
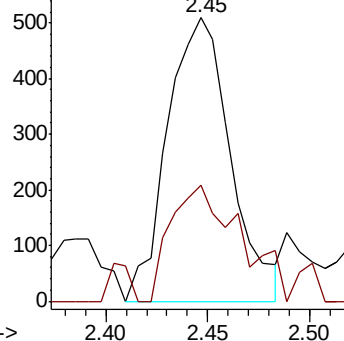
43 100

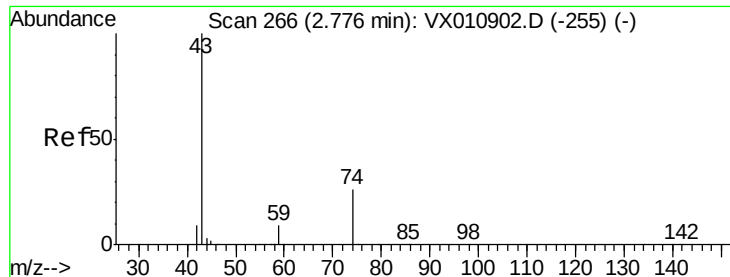
58 28.7 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

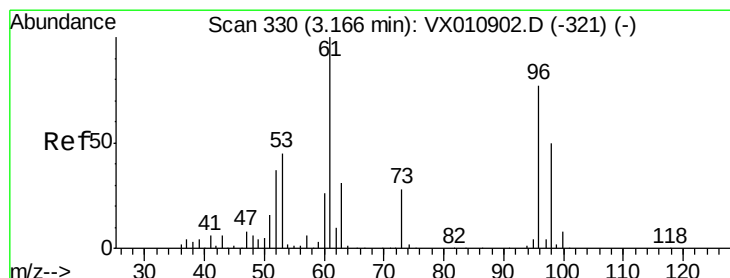
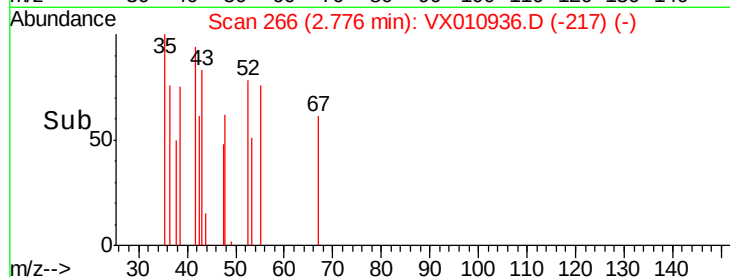
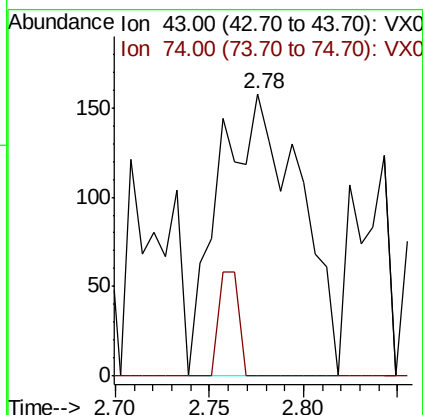
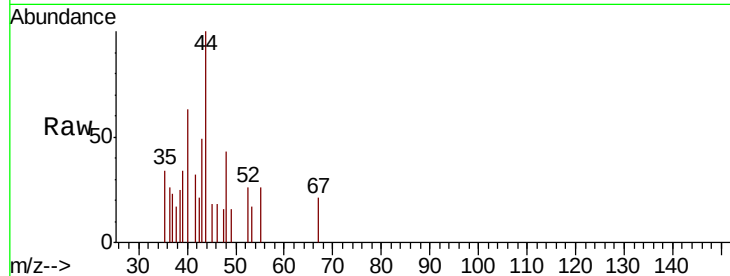




#18
Methvl Acetate
Concen: 0.203 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX010936.D
Acq: 17 Jul 2019 15:19

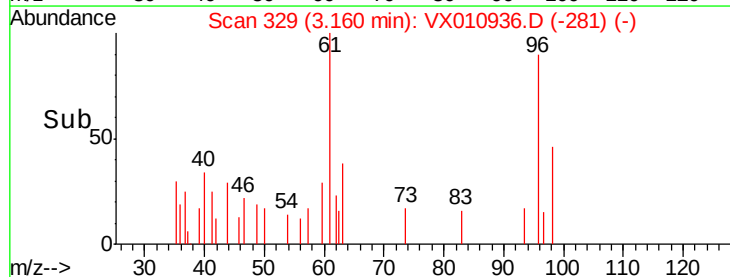
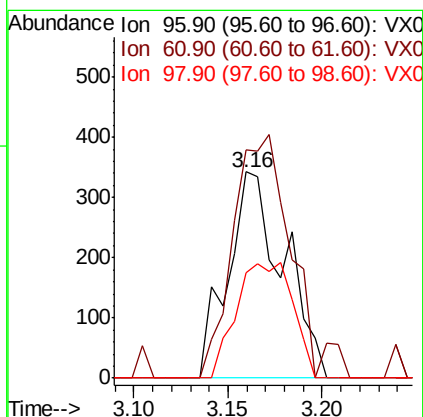
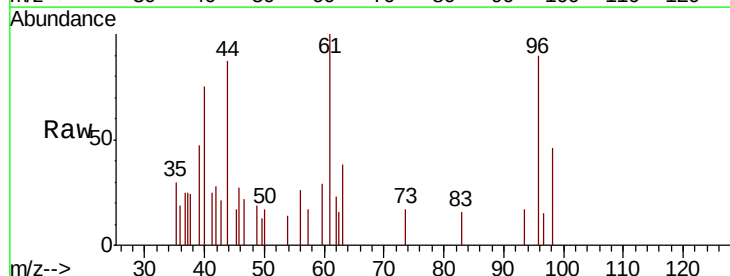
Instrument :
MSVOA_X
ClientSampleId :
SS050MW641-190716

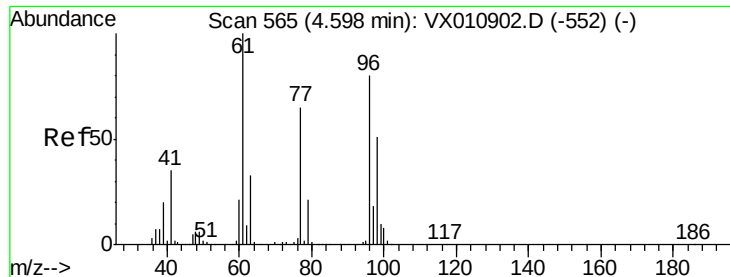
Tot Ion: 43 Resp: 469
Ion Ratio Lower Upper
43 100
74 9.0 21.5 32.3#



#21
trans-1,2-Dichloroethene
Concen: 0.354 ug/l
RT: 3.16 min Scan# 329
Delta R.T. -0.01 min
Lab File: VX010936.D
Acq: 17 Jul 2019 15:19

Tgt Ion: 96 Resp: 706
Ion Ratio Lower Upper
96 100
61 110.8 104.2 156.2
98 51.5 52.2 78.4#



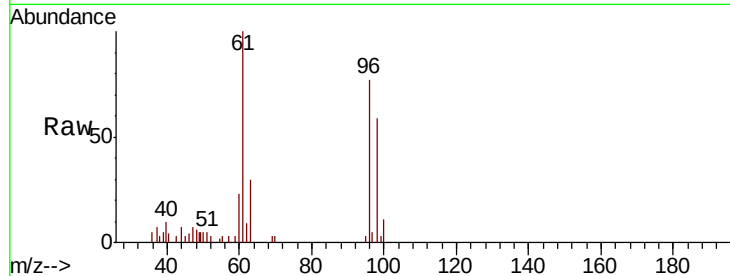


#27

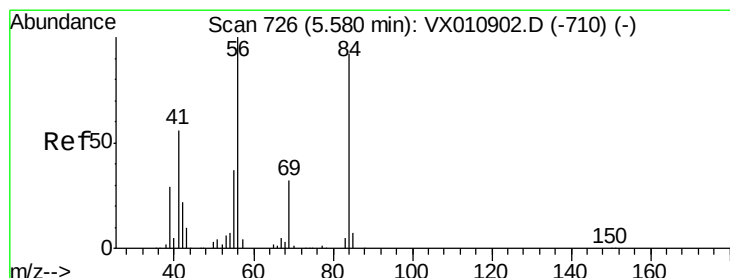
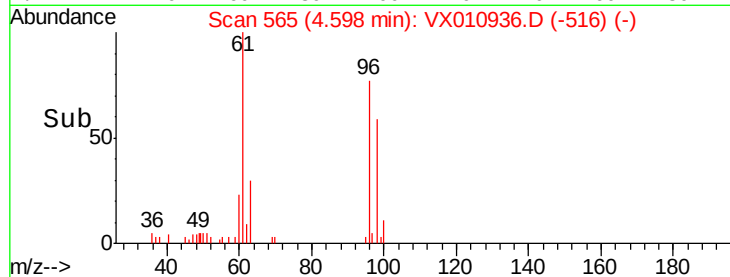
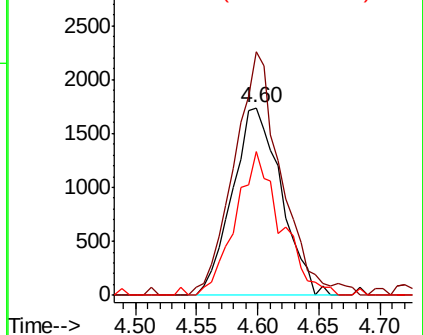
cis-1,2-Dichloroethene
Concen: 2.081 ug/l
RT: 4.60 min Scan# 565
Delta R.T. 0.00 min
Lab File: VX010936.D
Acq: 17 Jul 2019 15:19

Instrument :
MSVOA_X
ClientSampleId :
SS050MW641-190716

Tot Ion: 96 Resp: 4807
Ion Ratio Lower Upper
96 100
61 126.4 0.0 269.0
98 71.8 0.0 131.4



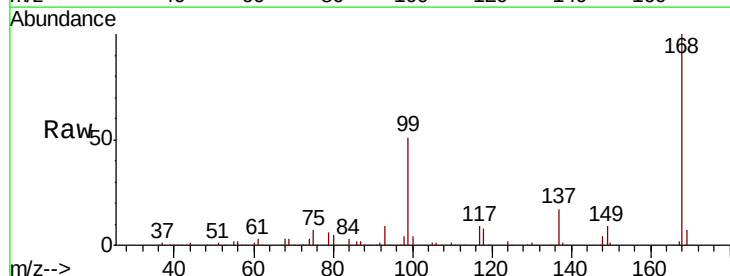
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



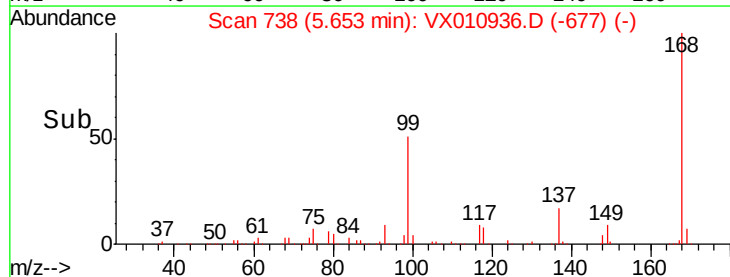
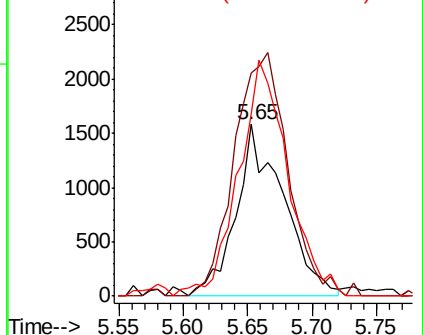
#31

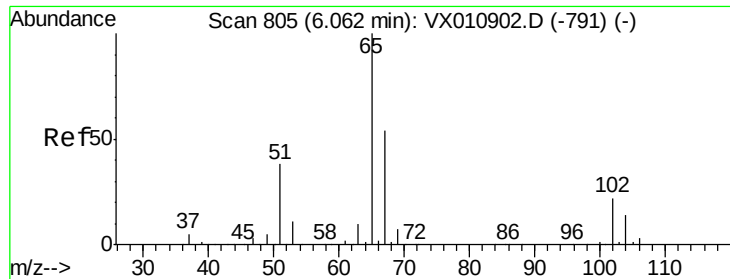
Cyclohexane
Concen: 1.328 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.07 min
Lab File: VX010936.D
Acq: 17 Jul 2019 15:19

Tgt Ion: 56 Resp: 4051
Ion Ratio Lower Upper
56 100
69 130.1 25.8 38.8#
84 101.8 73.8 110.6



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

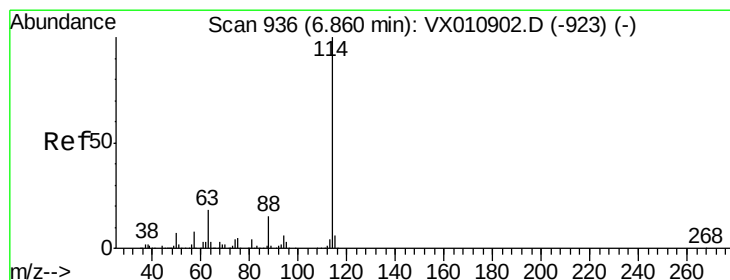
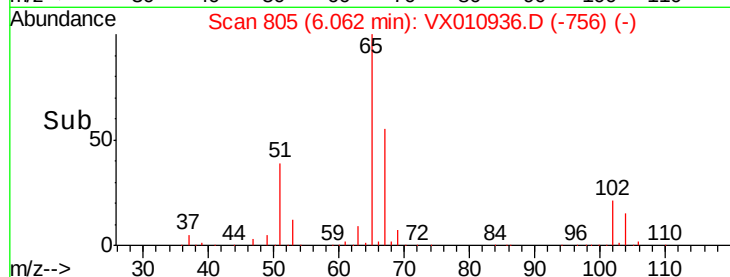
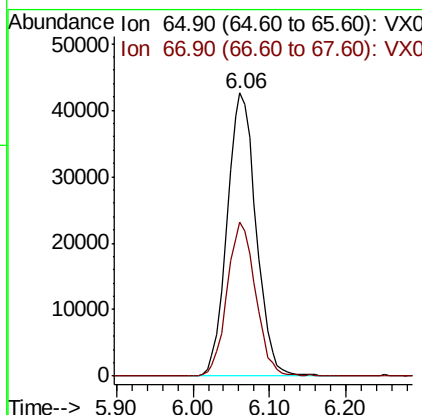
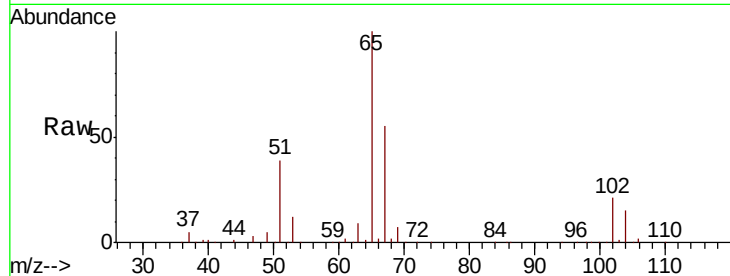




#33
 1,2-Dichloroethane-d4
 Concen: 49.620 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX010936.D
 Acq: 17 Jul 2019 15:19

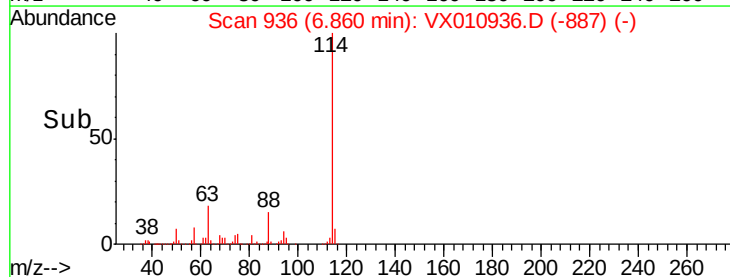
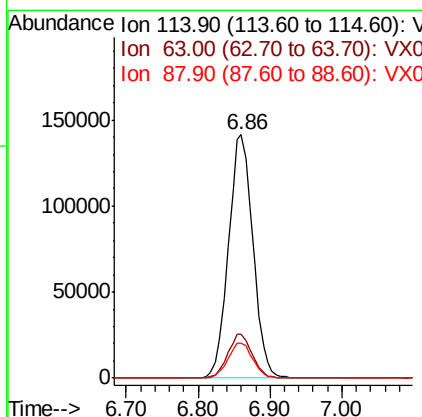
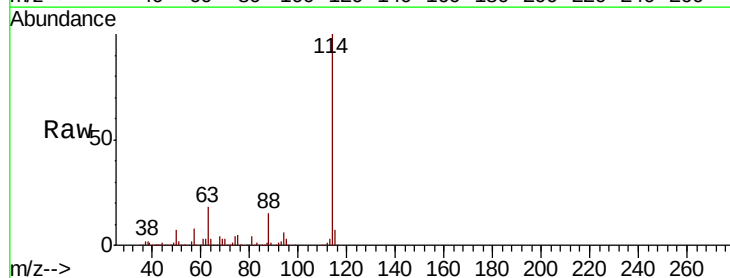
Instrument :
 MSVOA_X
 ClientSampleId :
 SS050MW641-190716

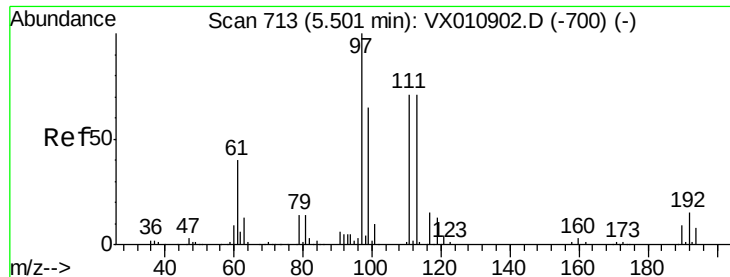
Tot Ion: 65 Resp: 111502
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010936.D
 Acq: 17 Jul 2019 15:19

Tgt Ion: 114 Resp: 334711
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 35.6
 88 14.6 0.0 29.8





#35

Dibromofluoromethane

Concen: 48.846 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010936.D

Acq: 17 Jul 2019 15:19

Instrument :

MSVOA_X

ClientSampleId :

SS050MW641-190716

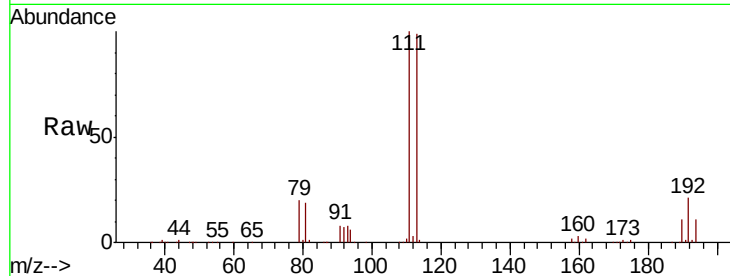
Tot Ion:113 Resp: 103773

Ion Ratio Lower Upper

113 100

111 101.1 82.3 123.5

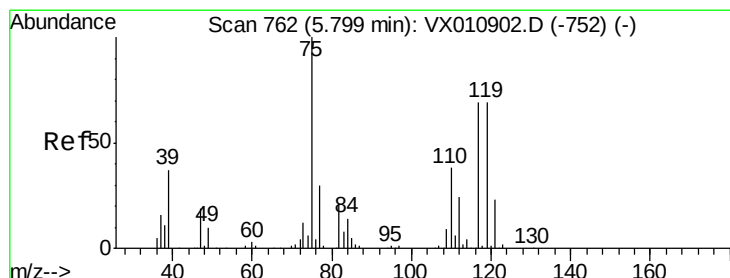
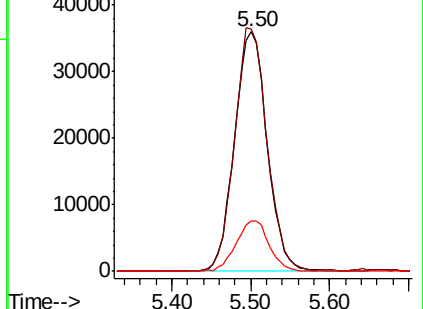
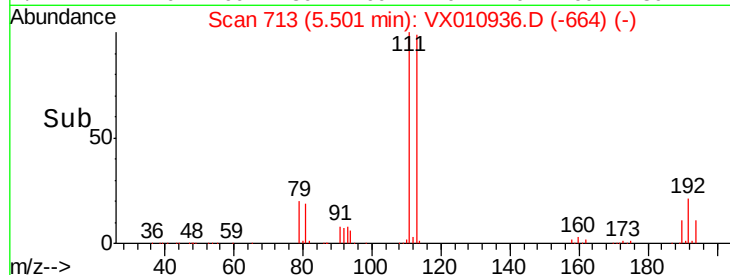
192 21.3 17.4 26.2



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: 5.122 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010936.D

Acq: 17 Jul 2019 15:19

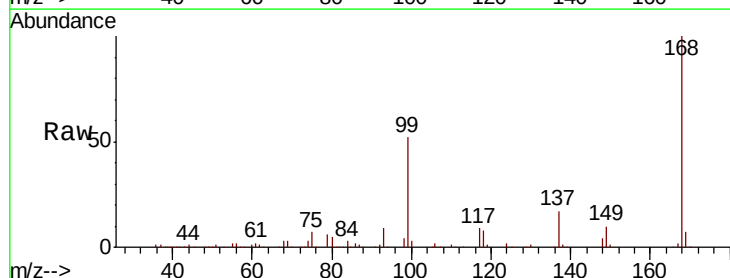
Tgt Ion: 75 Resp: 14083

Ion Ratio Lower Upper

75 100

110 11.2 19.9 59.7#

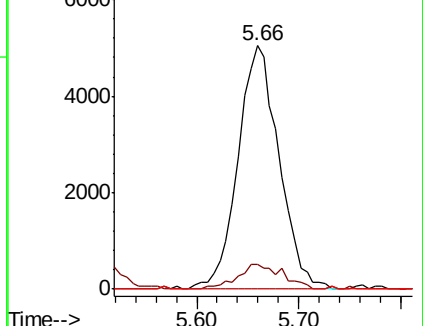
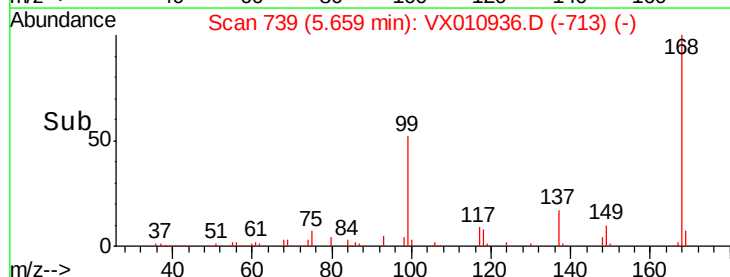
77 0.0 25.0 37.4#

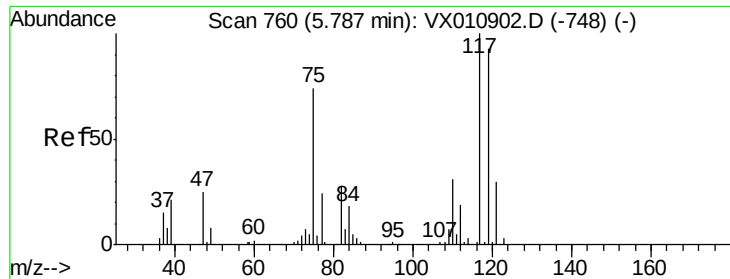


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.816 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX010936.D

Acq: 17 Jul 2019 15:19

Instrument :

MSVOA_X

ClientSampleId :

SS050MW641-190716

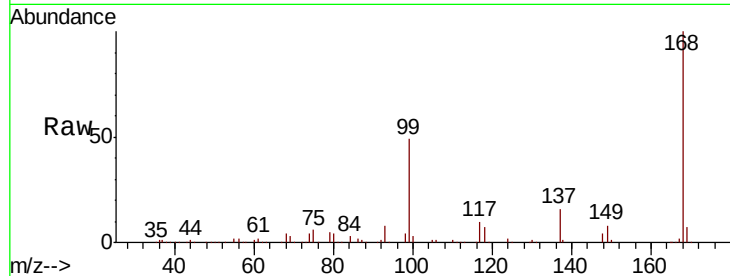
Tot Ion:117 Resp: 19528

Ion Ratio Lower Upper

117 100

119 4.1 74.2 111.2#

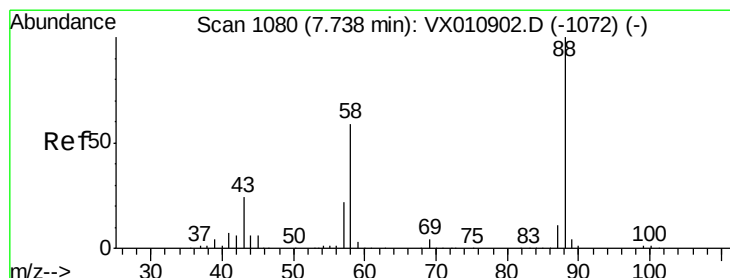
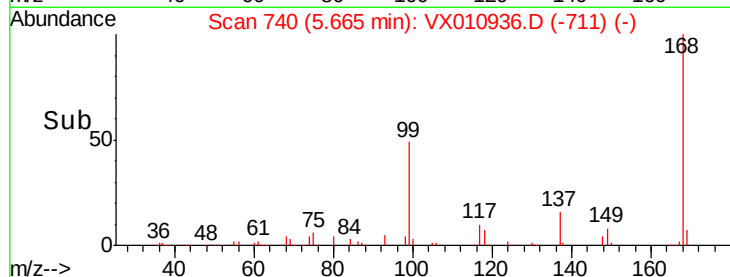
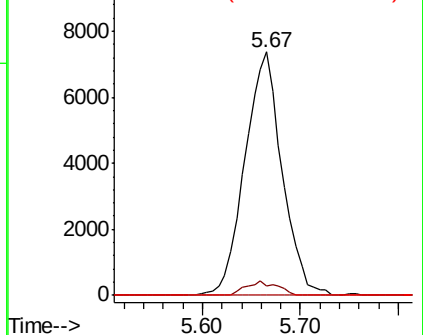
121 0.0 24.2 36.2#



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



#49

1,4-Dioxane

Concen: 0.349 ug/l

RT: 7.69 min Scan# 1072

Delta R.T. -0.05 min

Lab File: VX010936.D

Acq: 17 Jul 2019 15:19

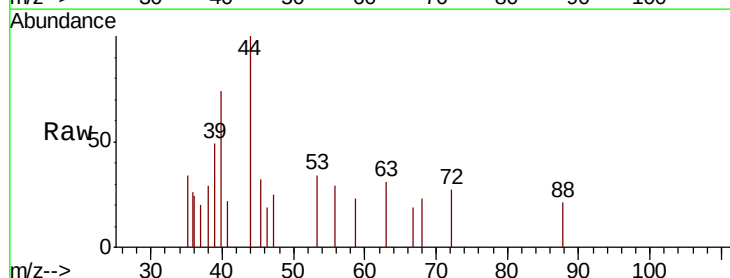
Tgt Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 445.5 22.9 34.3#

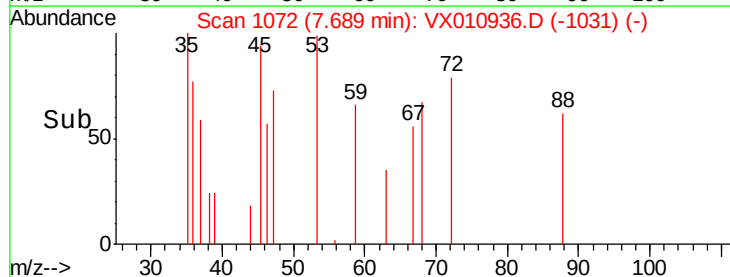
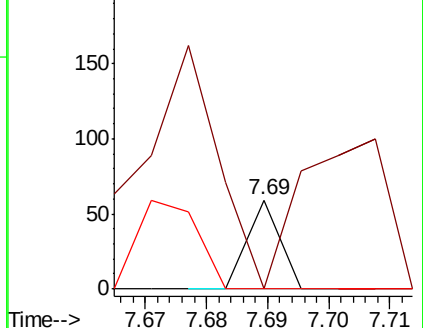
58 0.0 49.8 74.8#

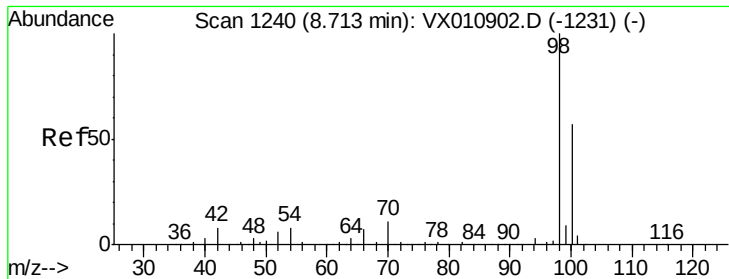


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.560 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010936.D

Acq: 17 Jul 2019 15:19

Instrument :

MSVOA_X

ClientSampleId :

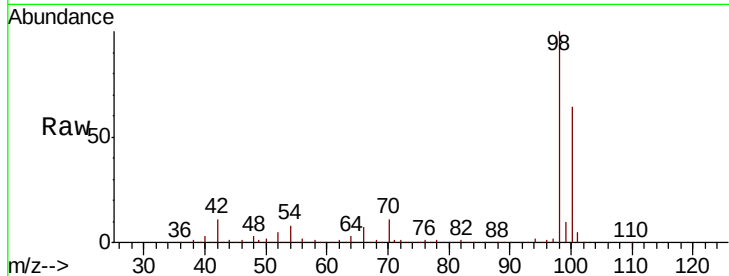
SS050MW641-190716

Tot Ion: 98 Resp: 402868

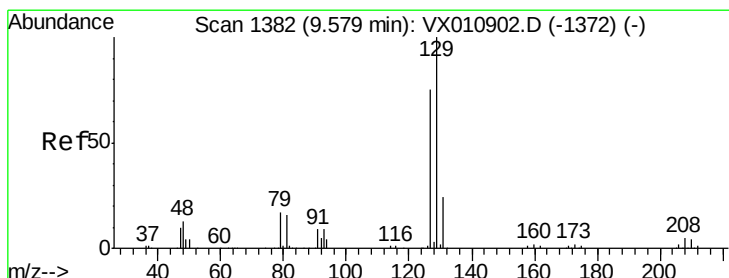
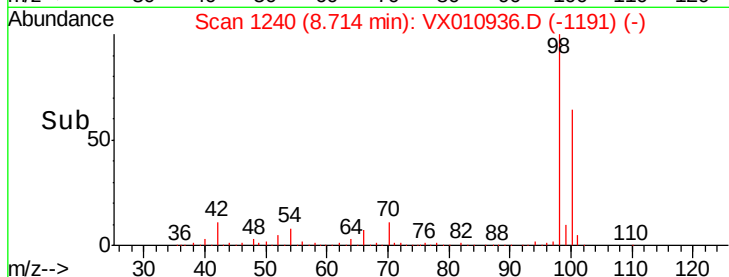
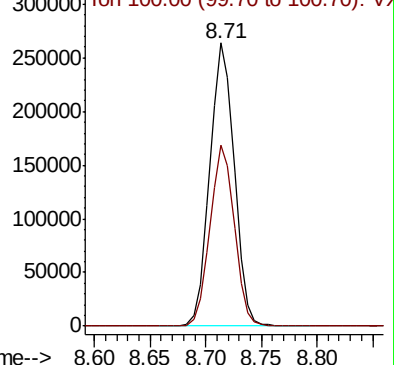
Ion Ratio Lower Upper

98 100

100 63.6 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VX010902.D (-1231) (-)



#60

Dibromochloromethane

Concen: 2.586 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX010936.D

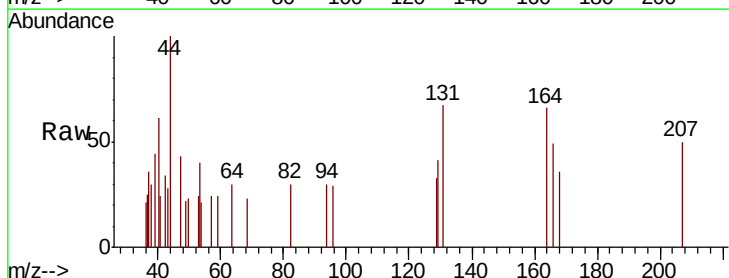
Acq: 17 Jul 2019 15:19

Tgt Ion: 129 Resp: 161

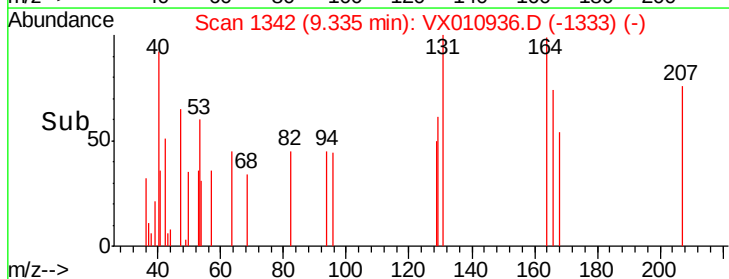
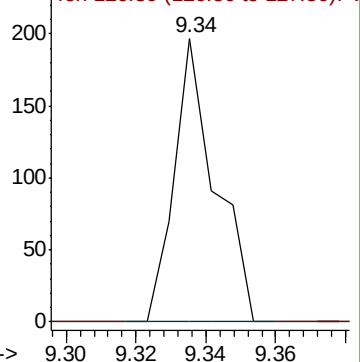
Ion Ratio Lower Upper

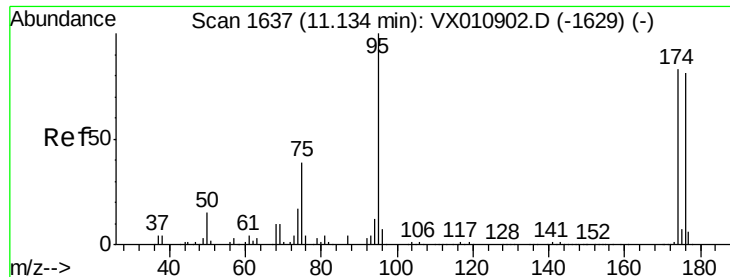
129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): VX010902.D (-1372) (-)





#62

4-Bromofluorobenzene

Concen: 47.706 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010936.D

Acq: 17 Jul 2019 15:19

Instrument :

MSVOA_X

ClientSampleId :

SS050MW641-190716

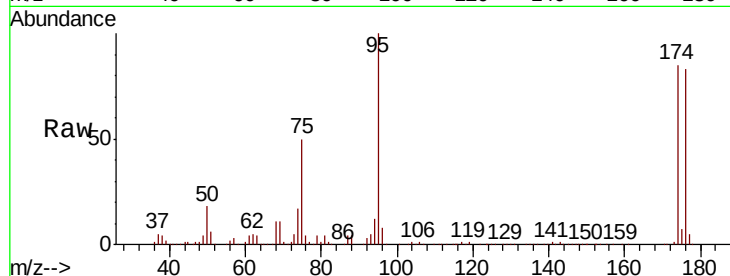
Tot Ion: 95 Resp: 139725

Ion Ratio Lower Upper

95 100

174 92.2 0.0 180.6

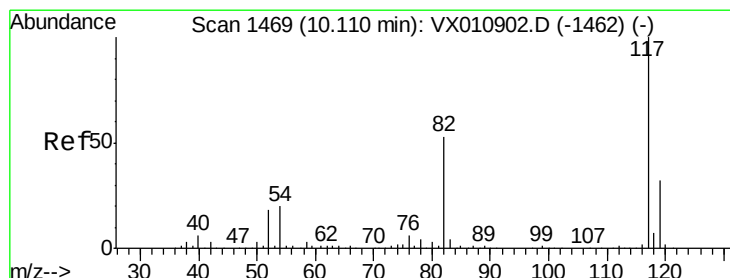
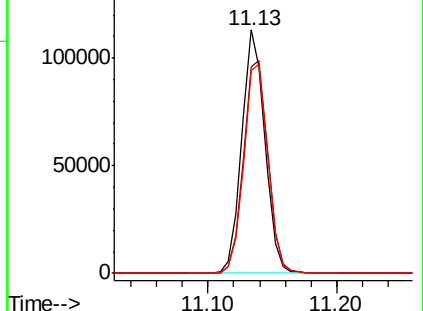
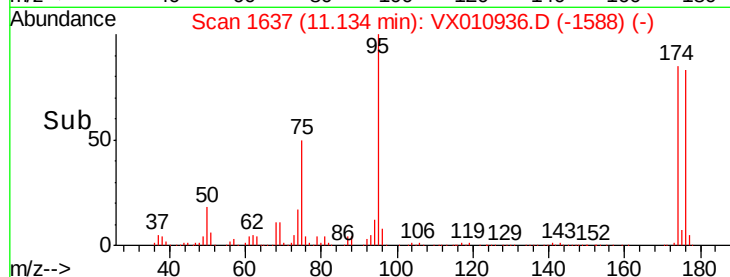
176 89.1 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VX010936.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX010936.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX010936.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX010936.D

Acq: 17 Jul 2019 15:19

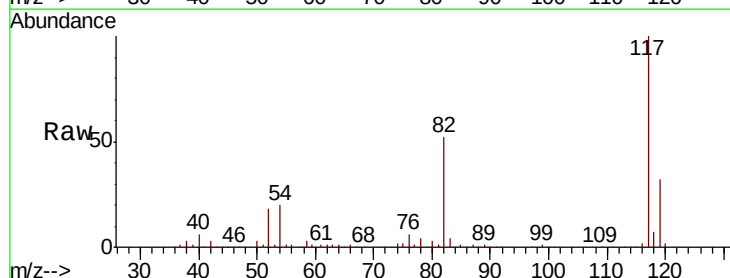
Tgt Ion: 117 Resp: 311232

Ion Ratio Lower Upper

117 100

82 52.4 42.6 63.8

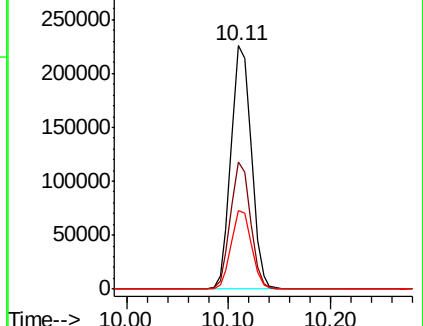
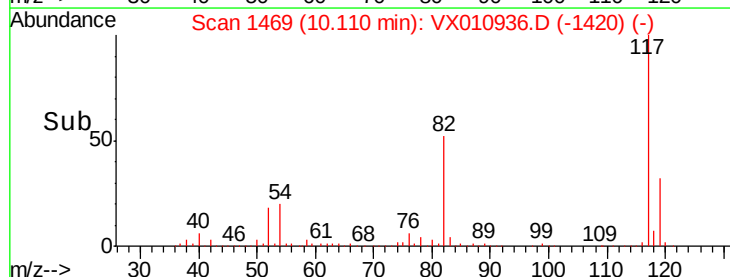
119 32.0 25.9 38.9

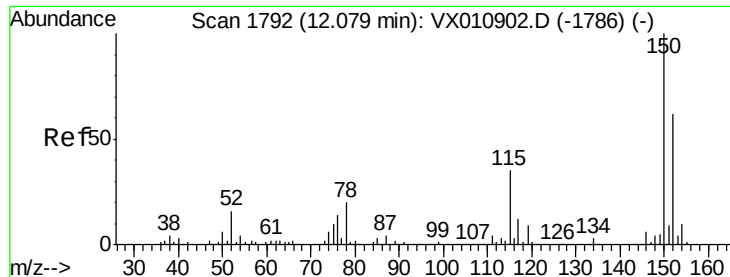


Abundance Ion 116.90 (116.60 to 117.60): VX010936.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX010936.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX010936.D (-1420) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX010936.D

Acq: 17 Jul 2019 15:19

Instrument :

MSVOA_X

ClientSampleId :

SS050MW641-190716

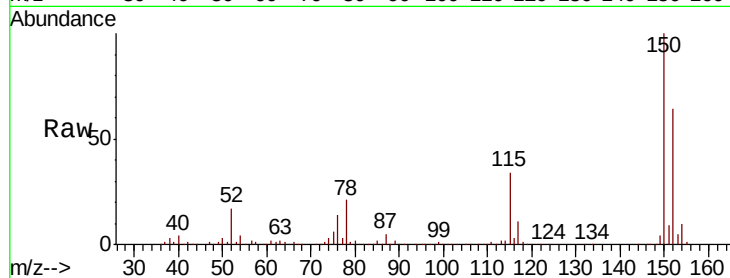
Tot Ion:152 Resp: 143442

Ion Ratio Lower Upper

152 100

115 55.8 39.7 119.1

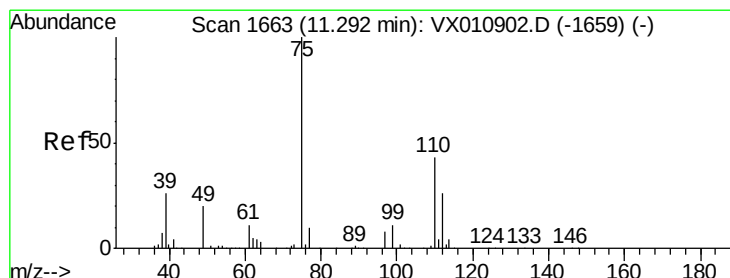
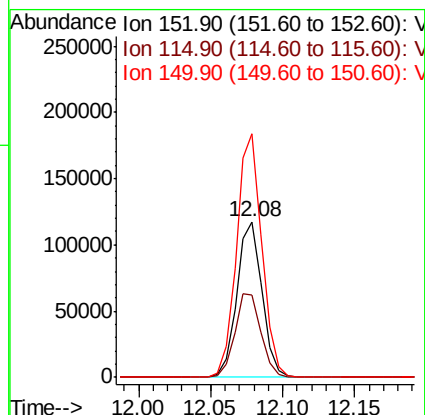
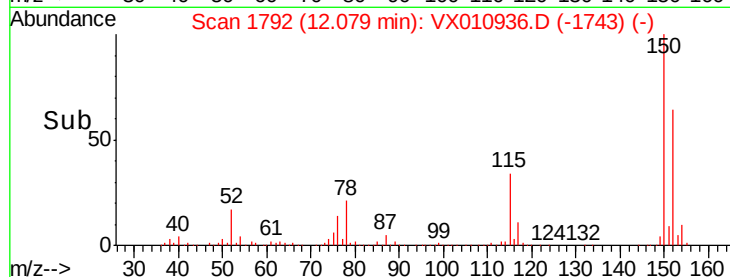
150 157.2 0.0 345.6



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: 27.097 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010936.D

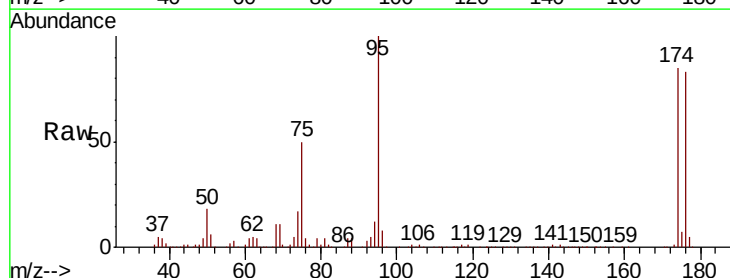
Acq: 17 Jul 2019 15:19

Tgt Ion: 75 Resp: 70141

Ion Ratio Lower Upper

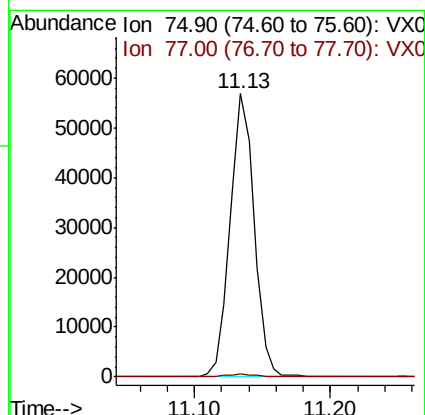
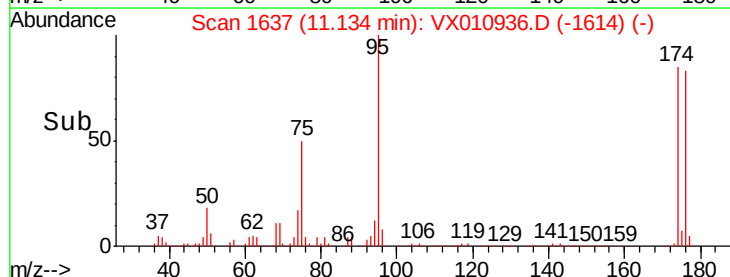
75 100

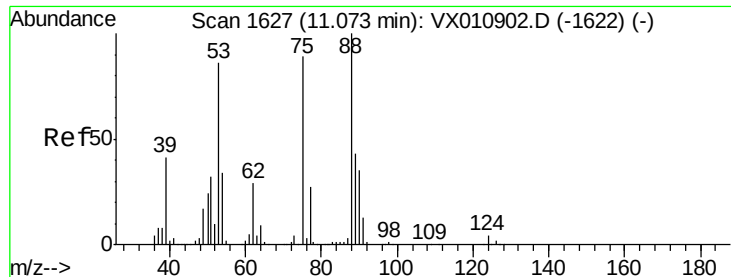
77 1.2 21.3 64.0#



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: 67.168 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010936.D

Acq: 17 Jul 2019 15:19

Instrument :

MSVOA_X

ClientSampleId :

SS050MW641-190716

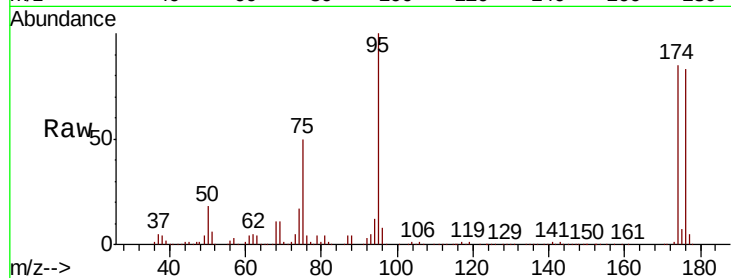
Tot Ion: 75 Resp: 70141

Ion Ratio Lower Upper

75 100

53 0.0 76.7 115.1#

89 0.0 38.5 57.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

