

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051619\
 Data File : VX009632.D
 Acq On : 17 May 2019 01:43
 Operator : JC/SP
 Sample : K2887-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW750-190514

Quant Time: May 17 06:44:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	173463	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	277406	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	243896	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	105364	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	115334	48.71	ug/l	0.00
Spiked Amount			Recovery	=	97.42%	
35) Dibromofluoromethane	5.50	113	84937	48.71	ug/l	0.00
Spiked Amount			Recovery	=	97.42%	
50) Toluene-d8	8.71	98	348114	49.44	ug/l	0.00
Spiked Amount			Recovery	=	98.88%	
62) 4-Bromofluorobenzene	11.13	95	114615	44.80	ug/l	0.00
Spiked Amount			Recovery	=	89.60%	

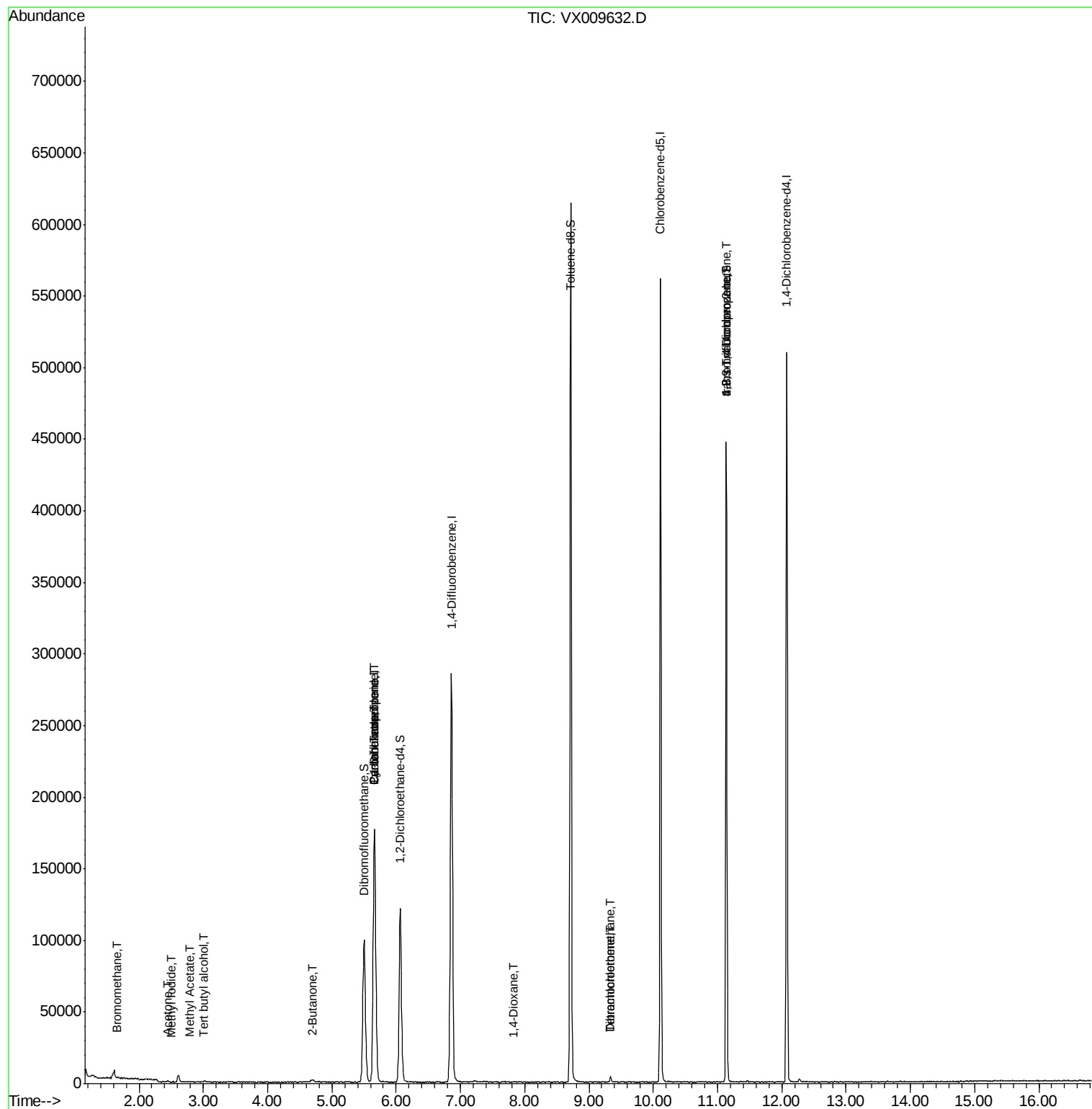
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	259	0.203	ug/l	96
10) Methyl Iodide	2.51	142	139	4.661	ug/l #	42
11) Tert butyl alcohol	3.01	59	709	1.293	ug/l #	73
16) Acetone	2.44	43	1102	0.867	ug/l	100
18) Methyl Acetate	2.79	43	829	0.274	ug/l #	79
25) 2-Butanone	4.70	43	433	0.219	ug/l #	53
28) Bromochloromethane	5.03	49	48	Below Cal	#	20
31) Cyclohexane	5.66	56	3739	1.068	ug/l #	3
36) 1,1-Dichloropropene	5.67	75	13464	5.223	ug/l #	51
38) Carbon Tetrachloride	5.67	117	16543	7.063	ug/l #	15
49) 1,4-Dioxane	7.83	88	18	0.311	ug/l #	1
60) Dibromochloromethane	9.34	129	631	0.327	ug/l #	11
64) Tetrachloroethene	9.34	164	672	0.402	ug/l	90
76) 1,2,3-Trichloropropane	11.13	75	59820	24.476	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	59820	62.624	ug/l #	10

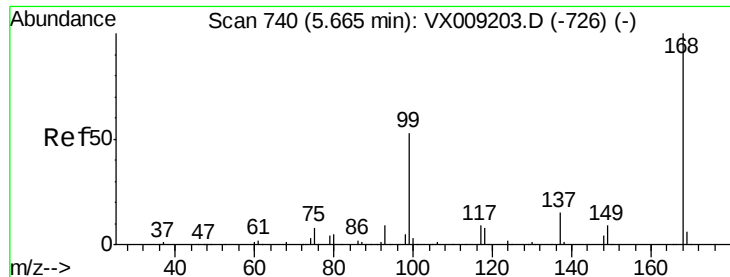
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009632.D

Acq: 17 May 2019 01:43

Instrument :

MSVOA_X

ClientSampleId :

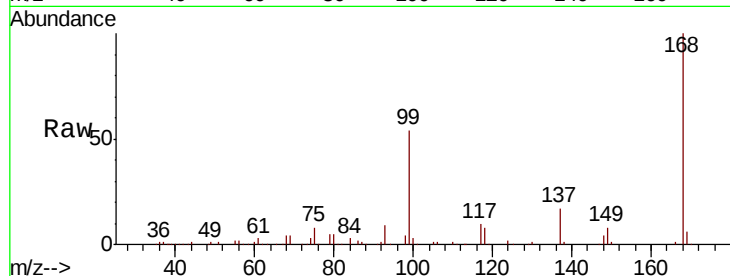
SS052MW750-190514

Tot Ion:168 Resp: 173463

Ion Ratio Lower Upper

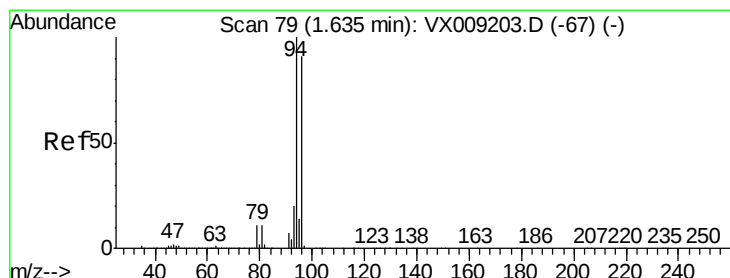
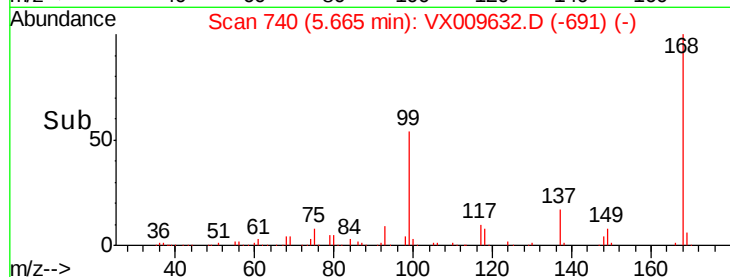
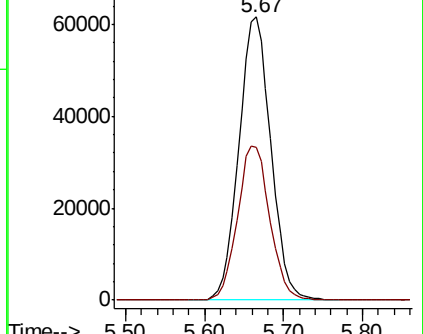
168 100

99 53.9 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.203 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009632.D

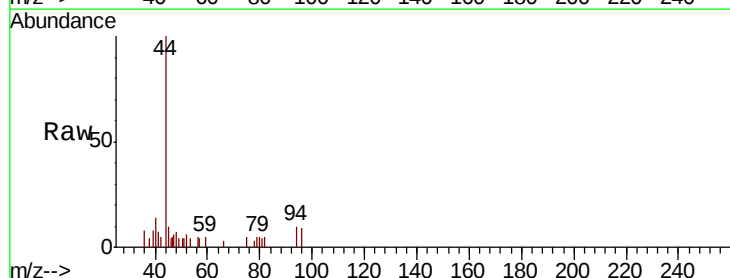
Acq: 17 May 2019 01:43

Tgt Ion: 94 Resp: 259

Ion Ratio Lower Upper

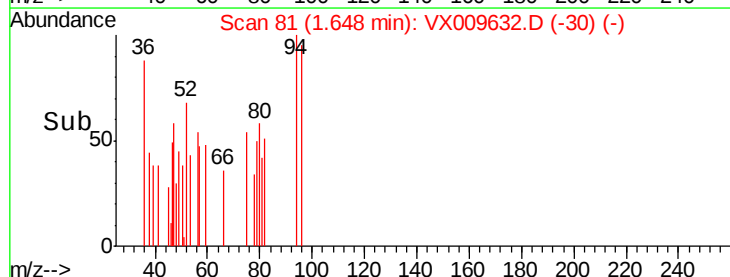
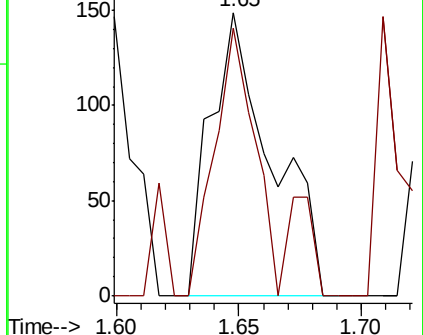
94 100

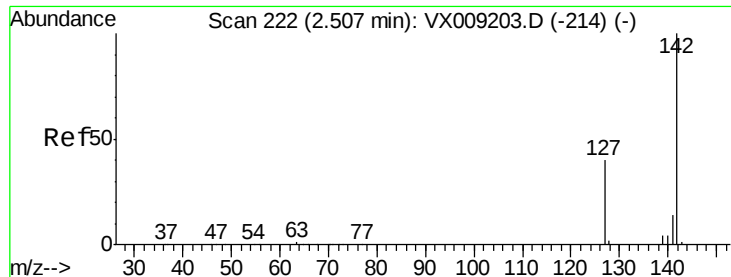
96 94.6 73.0 109.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

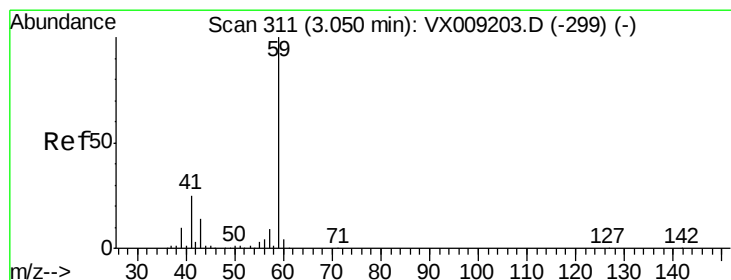
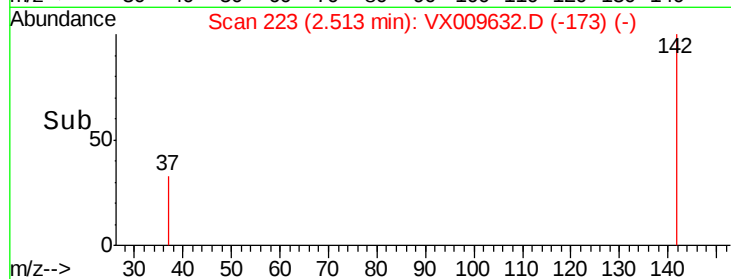
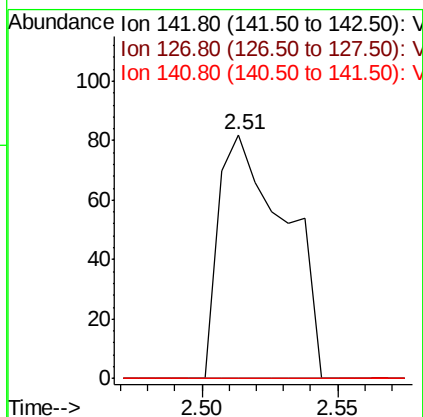
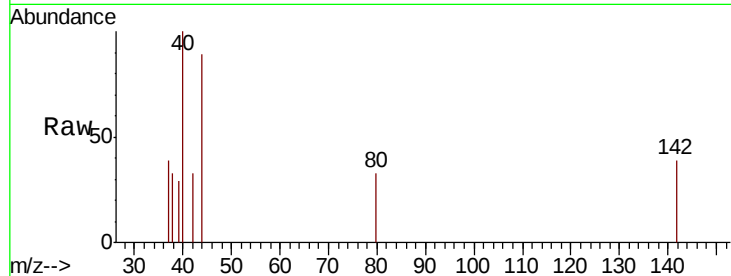




#10
Methvl Iodide
Concen: 4.661 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX009632.D
Acq: 17 May 2019 01:43

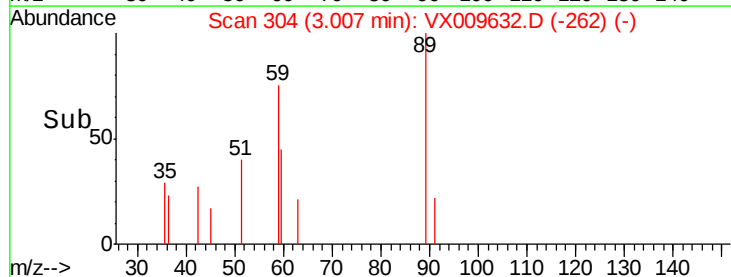
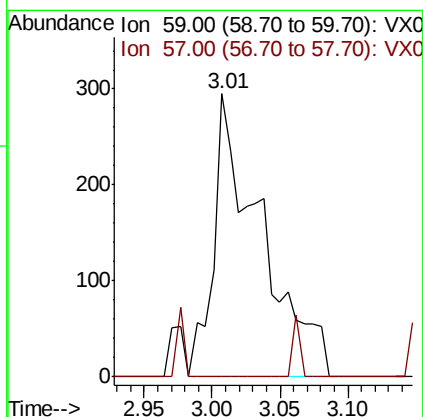
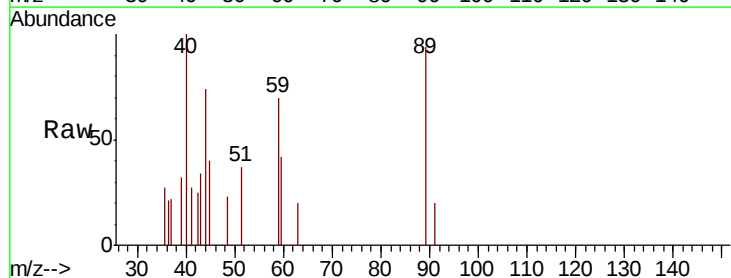
Instrument :
MSVOA_X
ClientSampleId :
SS052MW750-190514

Tot Ion:142 Resp: 139
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 1.293 ug/l
RT: 3.01 min Scan# 304
Delta R.T. -0.04 min
Lab File: VX009632.D
Acq: 17 May 2019 01:43

Tgt Ion: 59 Resp: 709
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#





#16

Acetone

Concen: 0.867 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009632.D

Acq: 17 May 2019 01:43

Instrument :

MSVOA_X

ClientSampleId :

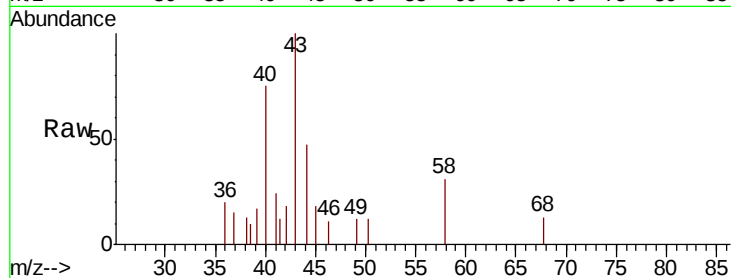
SS052MW750-190514

Tot Ion: 43 Resp: 1102

Ion Ratio Lower Upper

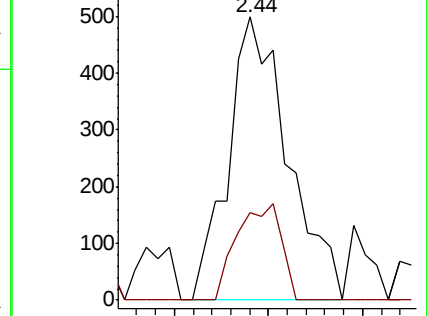
43 100

58 31.1 24.9 37.3

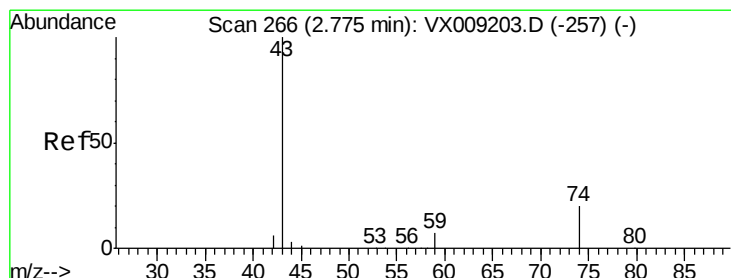
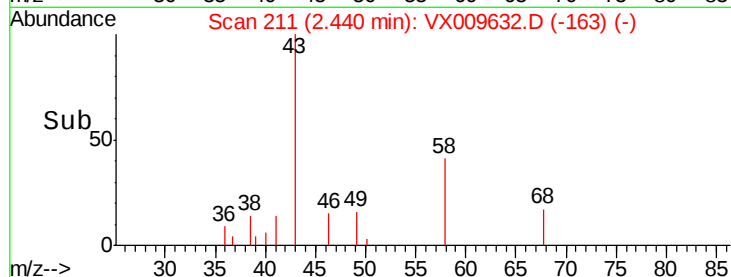


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#18

Methyl Acetate

Concen: 0.274 ug/l

RT: 2.79 min Scan# 268

Delta R.T. 0.01 min

Lab File: VX009632.D

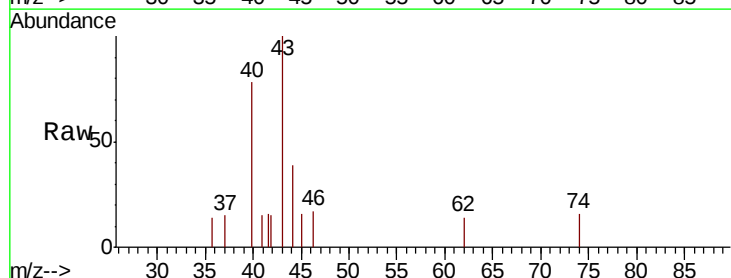
Acq: 17 May 2019 01:43

Tgt Ion: 43 Resp: 829

Ion Ratio Lower Upper

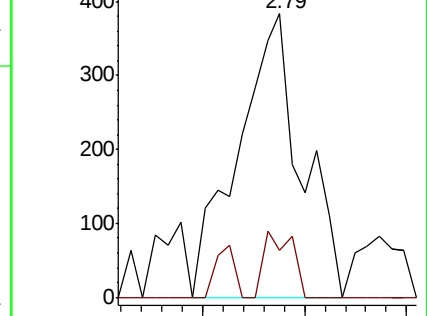
43 100

74 10.4 16.2 24.4#

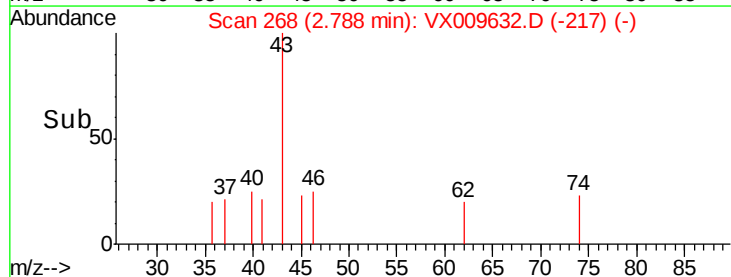


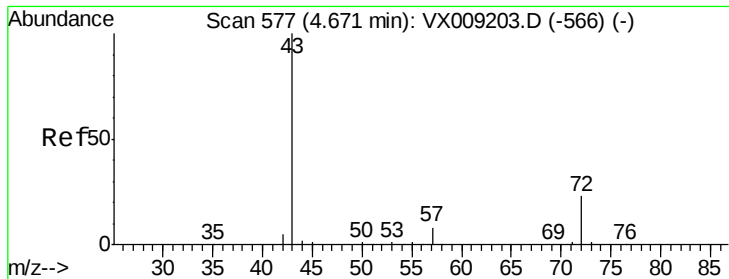
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



Time-->





#25

2-Butanone

Concen: 0.219 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.02 min

Lab File: VX009632.D

Acq: 17 May 2019 01:43

Instrument :

MSVOA_X

ClientSampleId :

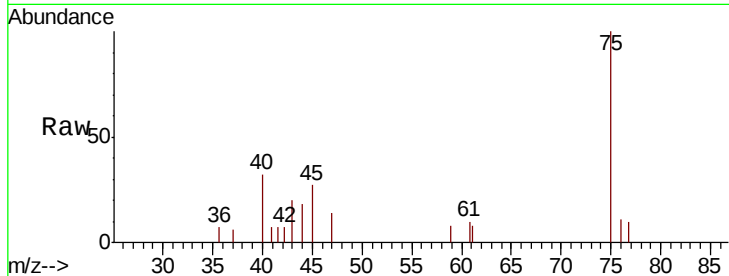
SS052MW750-190514

Tot Ion: 43 Resp: 433

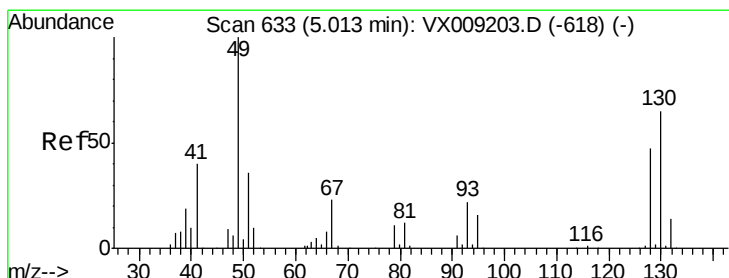
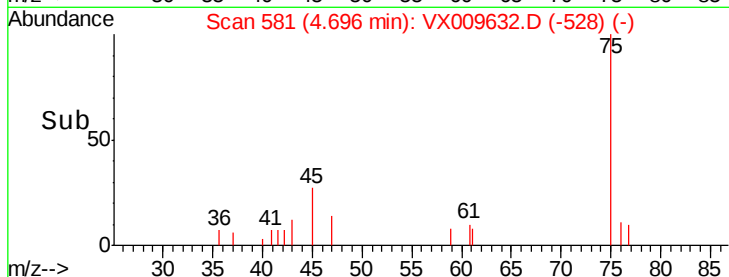
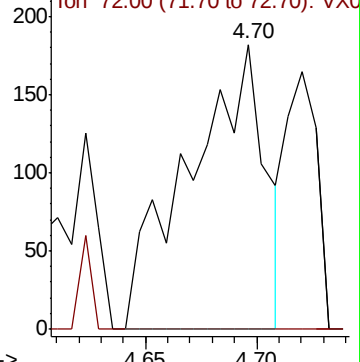
Ion Ratio Lower Upper

43 100

72 0.0 18.2 27.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0



#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 636

Delta R.T. 0.02 min

Lab File: VX009632.D

Acq: 17 May 2019 01:43

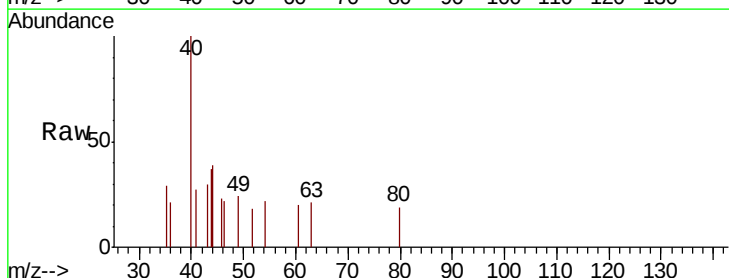
Tgt Ion: 49 Resp: 48

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

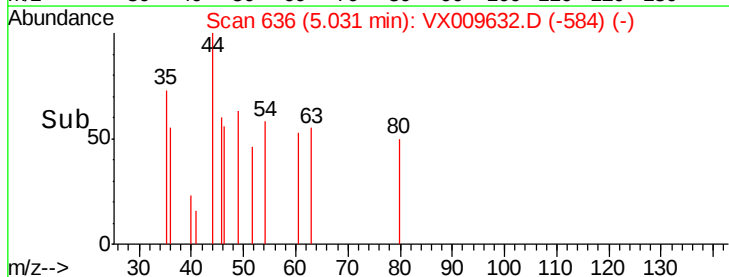
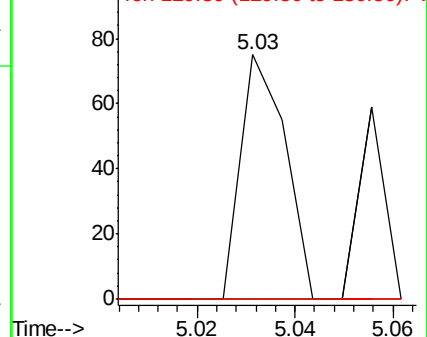
130 0.0 51.2 76.8#

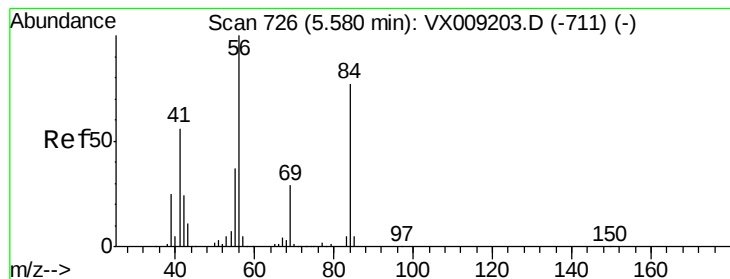


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#31

Cyclohexane

Concen: 1.068 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009632.D

Acq: 17 May 2019 01:43

Instrument :

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ClientSampleId :

SS052MW750-190514

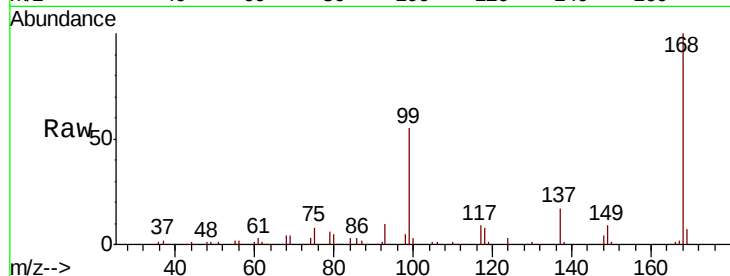
Tot Ion: 56 Resp: 3739

Ion Ratio Lower Upper

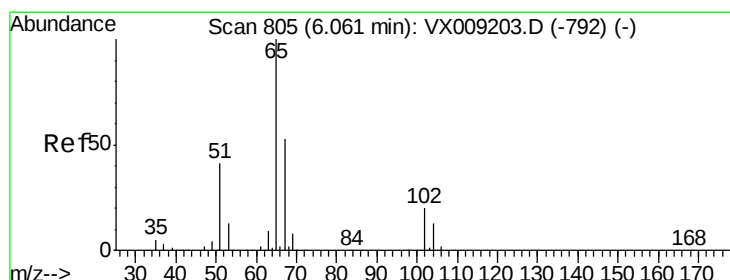
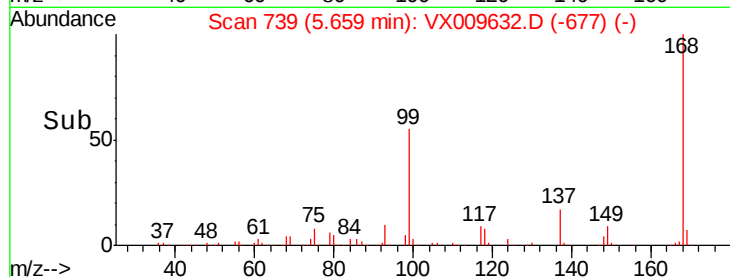
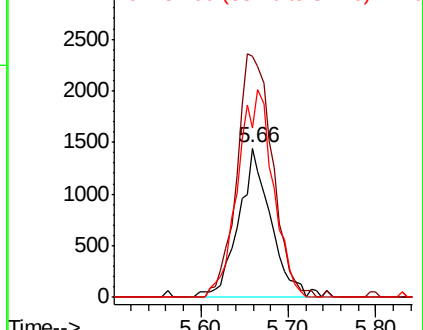
56 100

69 161.1 23.4 35.0#

84 113.1 61.9 92.9#



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: 48.706 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009632.D

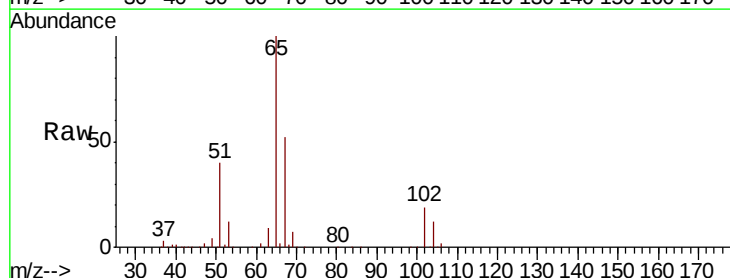
Acq: 17 May 2019 01:43

Tgt Ion: 65 Resp: 115334

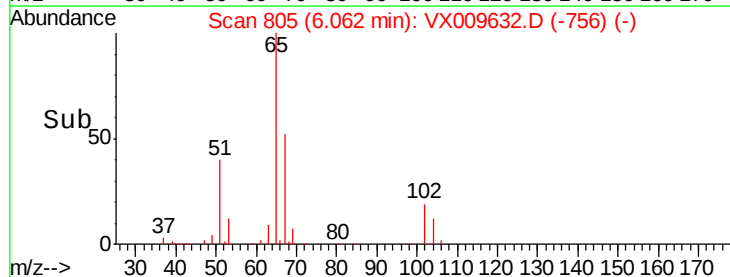
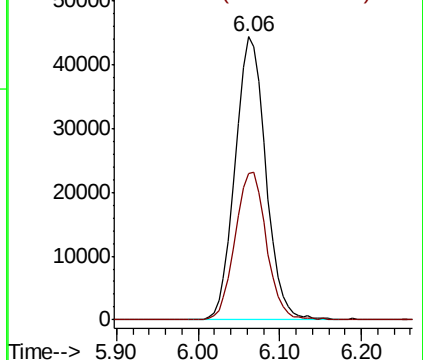
Ion Ratio Lower Upper

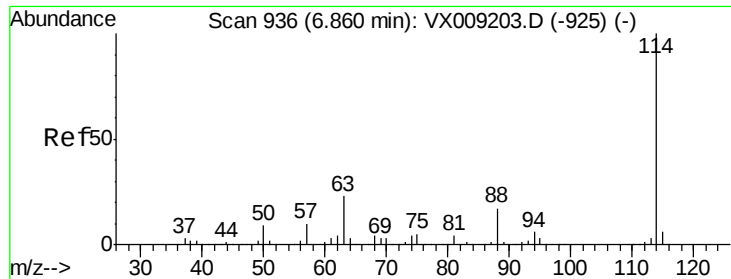
65 100

67 53.3 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

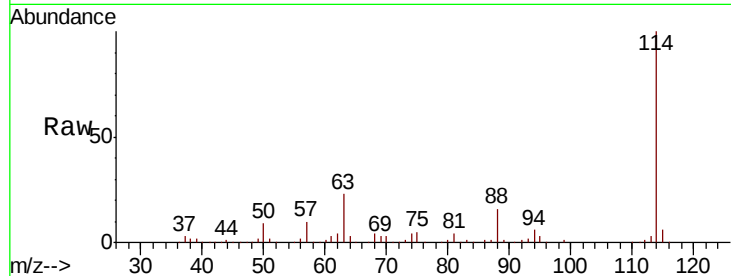




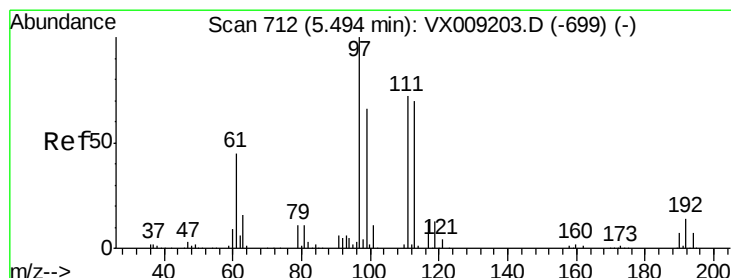
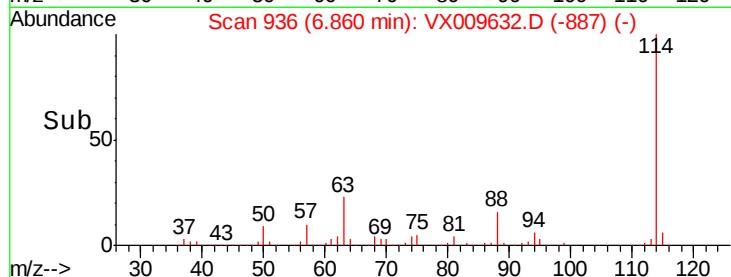
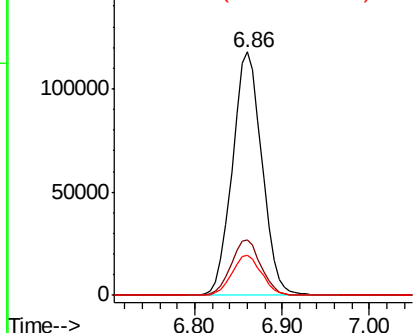
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009632.D
 Acq: 17 May 2019 01:43

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW750-190514

Tot Ion:114 Resp: 277406
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 45.6
 88 16.3 0.0 33.2

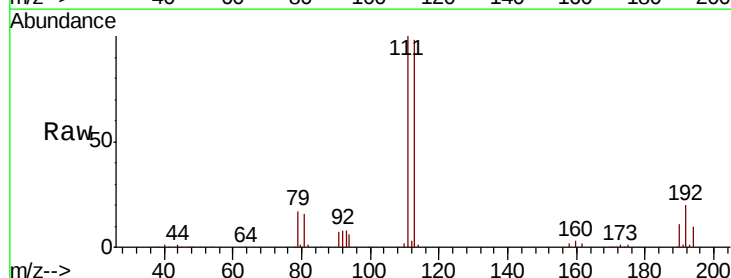


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

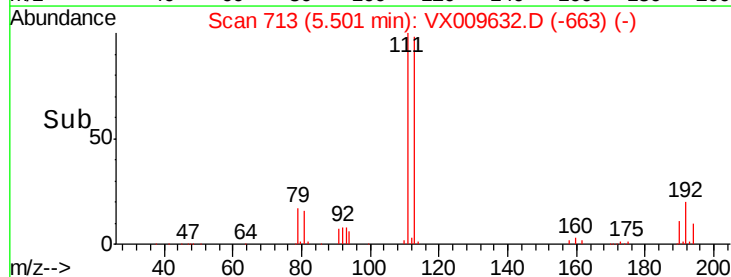
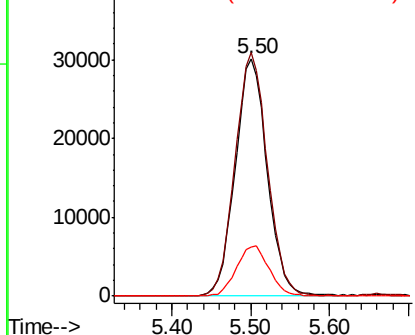


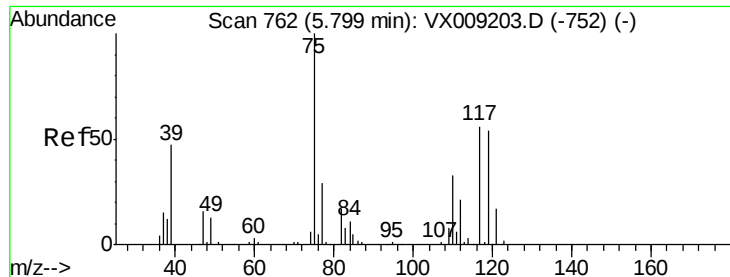
#35
 Dibromofluoromethane
 Concen: 48.706 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009632.D
 Acq: 17 May 2019 01:43

Tgt Ion:113 Resp: 84937
 Ion Ratio Lower Upper
 113 100
 111 103.5 82.8 124.2
 192 21.6 17.0 25.6



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: 5.223 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX009632.D

Acq: 17 May 2019 01:43

Instrument :

MSVOA_X

ClientSampleId :

SS052MW750-190514

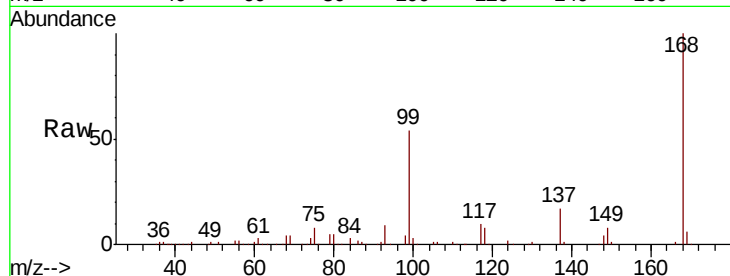
Tot Ion: 75 Resp: 13464

Ion Ratio Lower Upper

75 100

110 9.5 16.9 50.6#

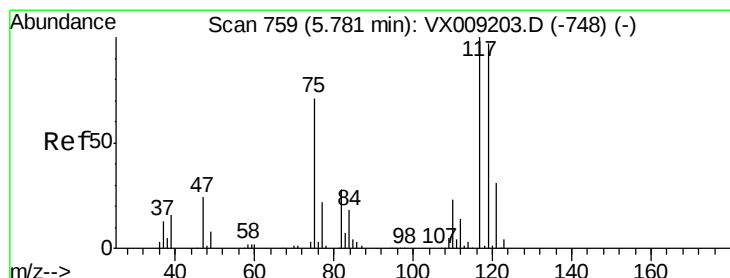
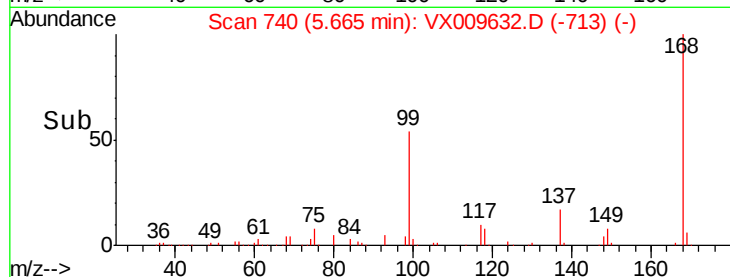
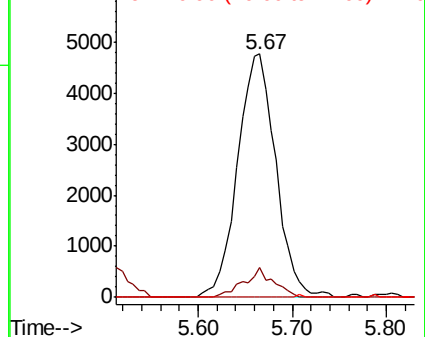
77 0.0 24.8 37.2#



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: 7.063 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009632.D

Acq: 17 May 2019 01:43

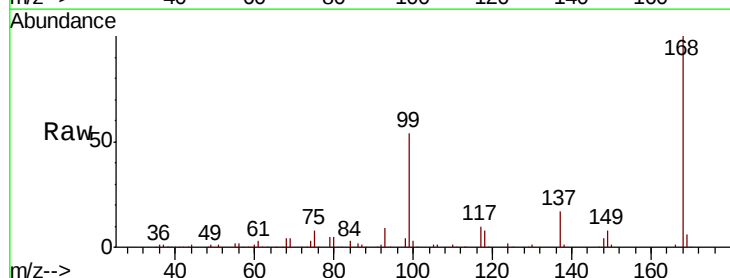
Tgt Ion: 117 Resp: 16543

Ion Ratio Lower Upper

117 100

119 5.0 77.5 116.3#

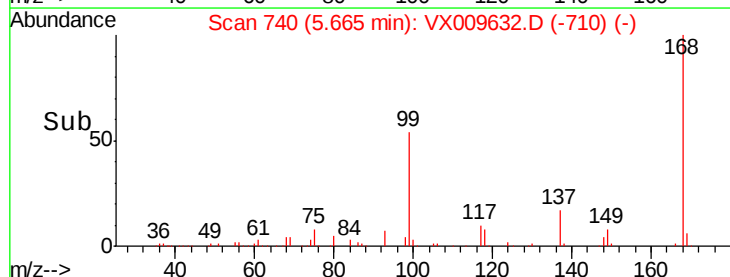
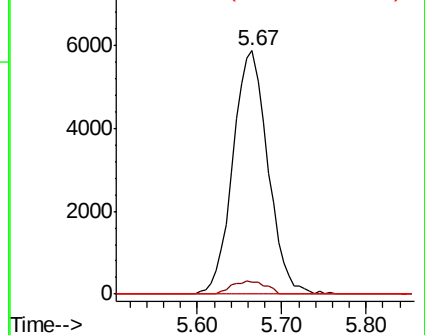
121 0.0 24.7 37.1#

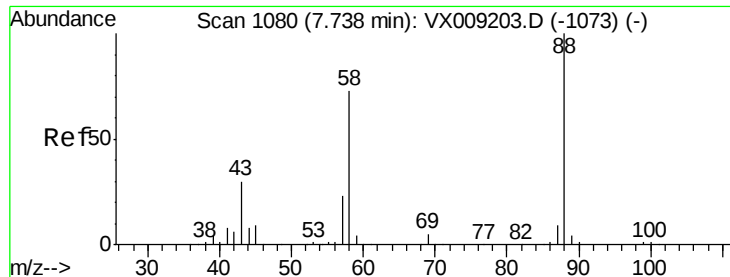


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

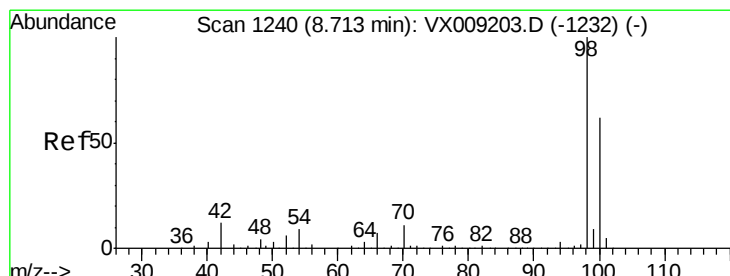
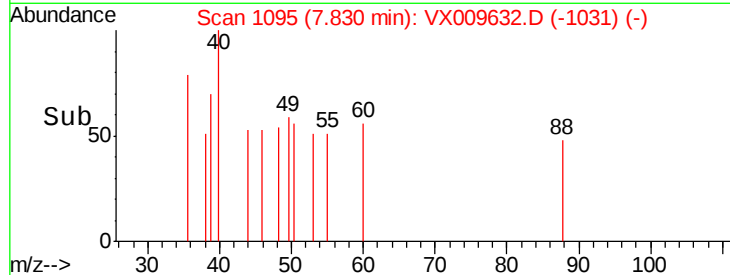
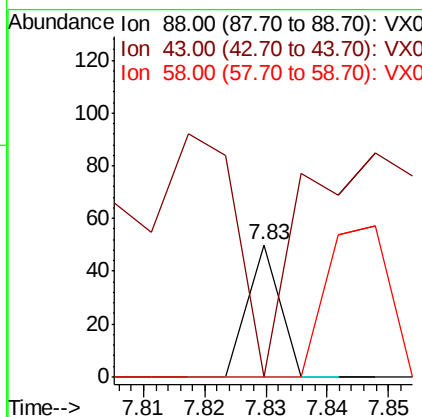
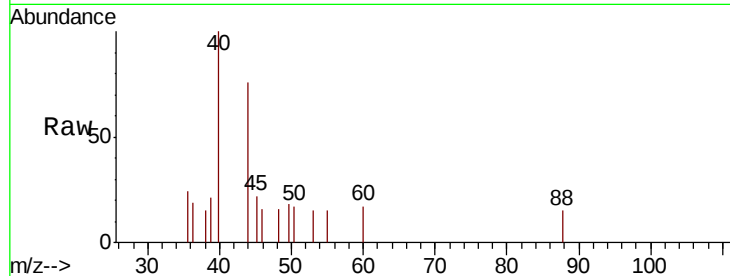




#49
 1,4-Dioxane
 Concen: 0.311 ug/l
 RT: 7.83 min Scan# 1095
 Delta R.T. 0.09 min
 Lab File: VX009632.D
 Acq: 17 May 2019 01:43

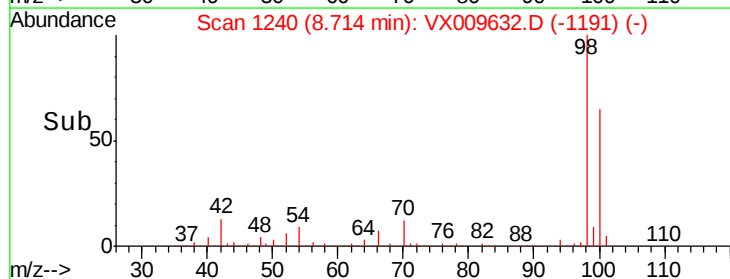
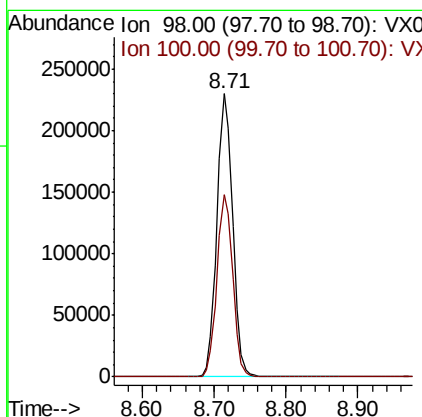
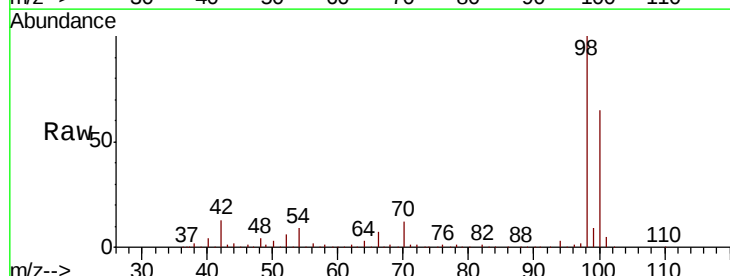
Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW750-190514

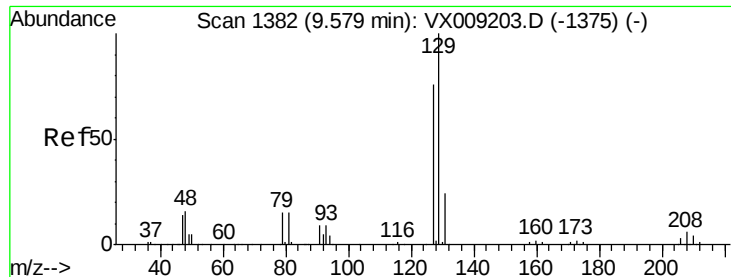
Tot Ion: 88 Resp: 18
 Ion Ratio Lower Upper
 88 100
 43 755.6 28.6 42.8#
 58 0.0 61.7 92.5#



#50
 Toluene-d8
 Concen: 49.445 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VX009632.D
 Acq: 17 May 2019 01:43

Tgt Ion: 98 Resp: 348114
 Ion Ratio Lower Upper
 98 100
 100 64.4 51.2 76.8





#60

Dibromochloromethane

Concen: 0.327 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX009632.D

Acq: 17 May 2019 01:43

Instrument :

MSVOA_X

ClientSampleId :

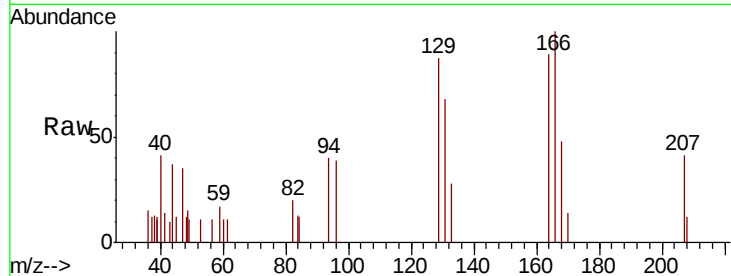
SS052MW750-190514

Tot Ion:129 Resp: 631

Ion Ratio Lower Upper

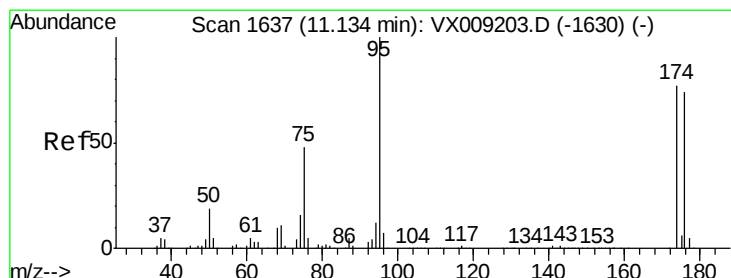
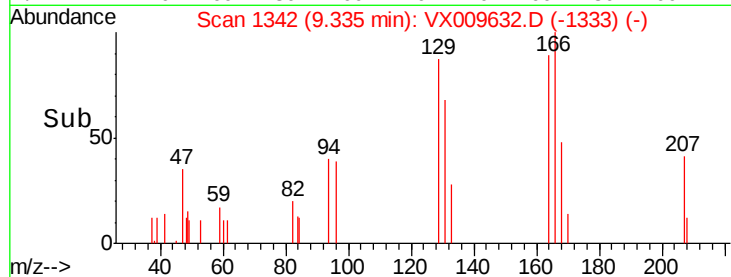
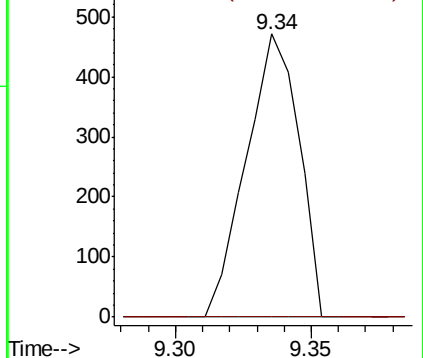
129 100

127 0.0 38.4 115.1#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 44.802 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009632.D

Acq: 17 May 2019 01:43

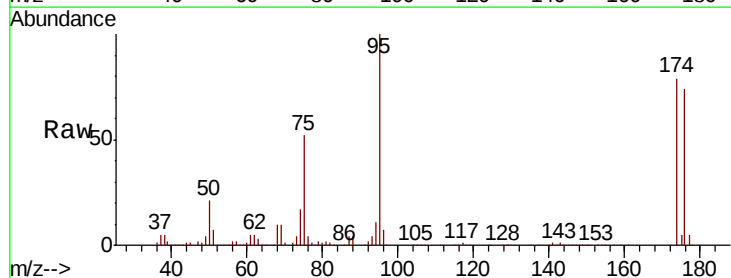
Tgt Ion: 95 Resp: 114615

Ion Ratio Lower Upper

95 100

174 83.8 0.0 161.6

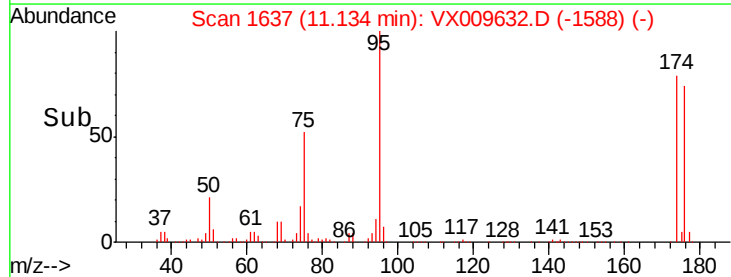
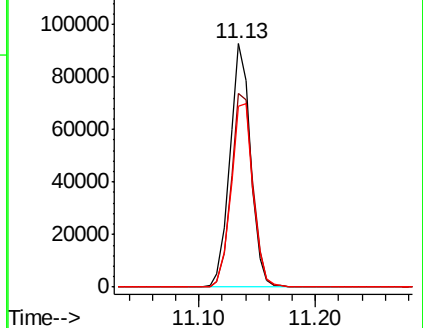
176 80.2 0.0 159.2

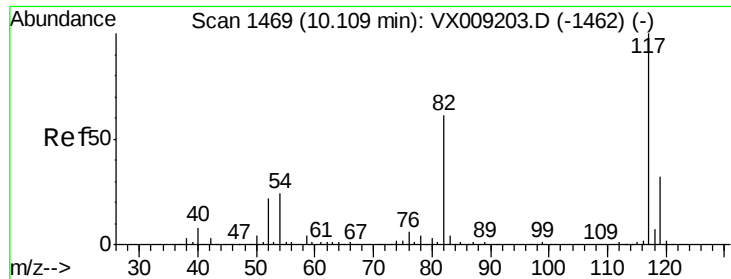


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

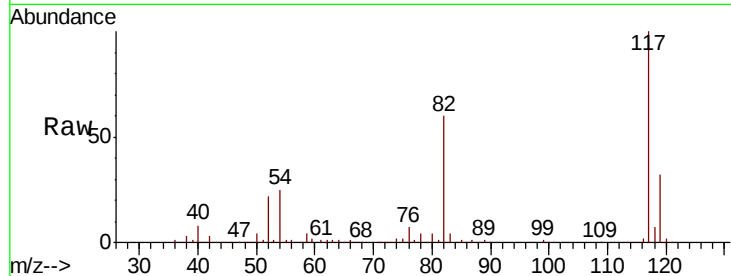




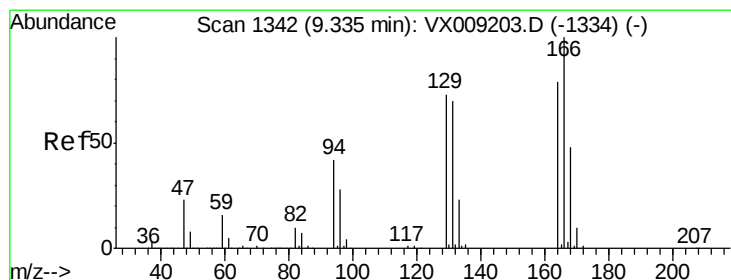
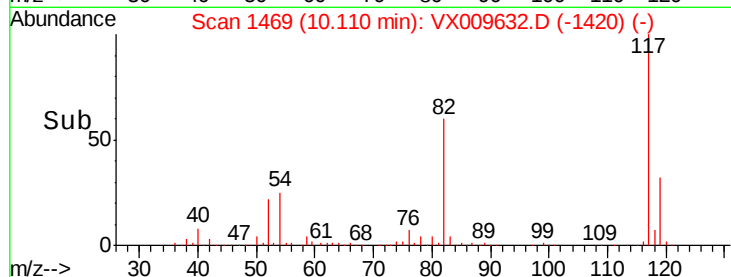
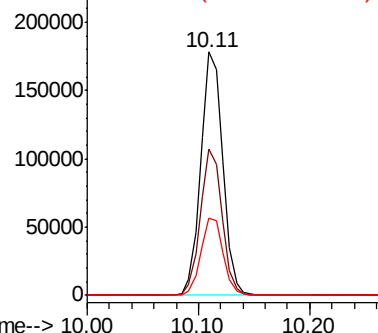
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009632.D
Acq: 17 May 2019 01:43

Instrument :
MSVOA_X
ClientSampleId :
SS052MW750-190514

Tot Ion:117 Resp: 243896
Ion Ratio Lower Upper
117 100
82 60.4 48.8 73.2
119 31.5 25.8 38.6

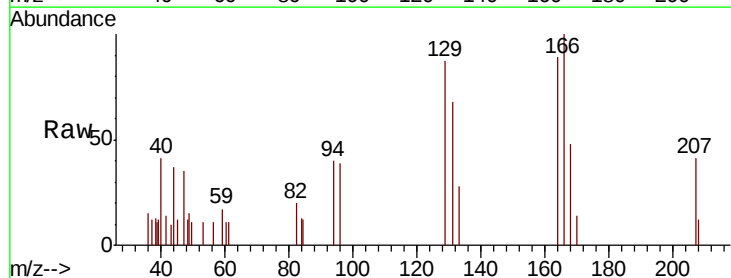


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

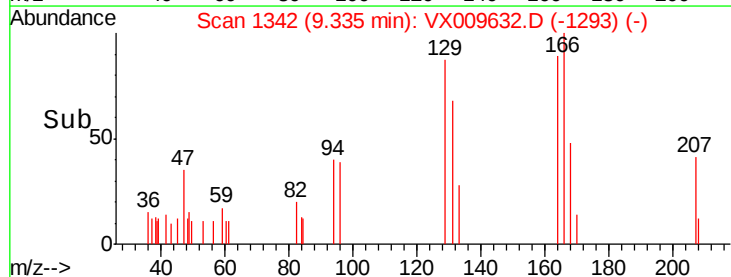
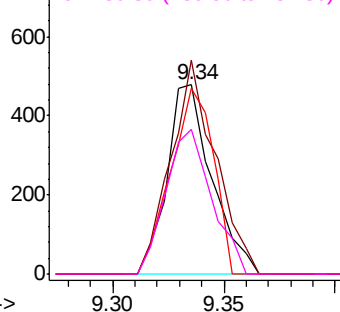


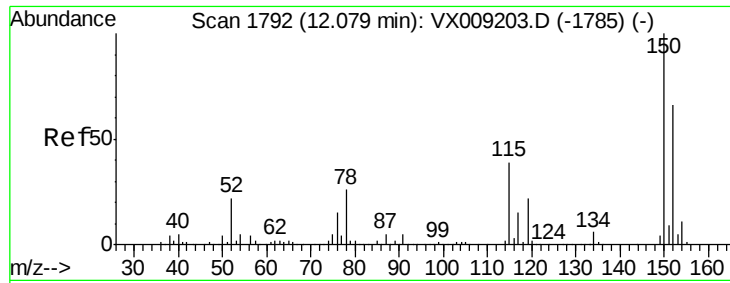
#64
Tetrachloroethene
Concen: 0.402 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX009632.D
Acq: 17 May 2019 01:43

Tgt Ion:164 Resp: 672
Ion Ratio Lower Upper
164 100
166 112.7 101.2 151.8
129 98.3 74.3 111.5
131 76.6 71.0 106.6



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): 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: VX009632.D

Acq: 17 May 2019 01:43

Instrument :

MSVOA_X

ClientSampleId :

SS052MW750-190514

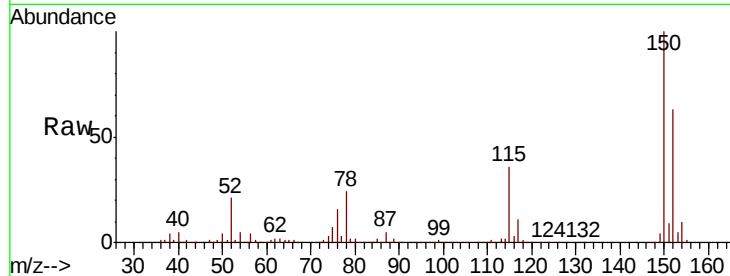
Tot Ion:152 Resp: 105364

Ion Ratio Lower Upper

152 100

115 57.5 41.2 123.6

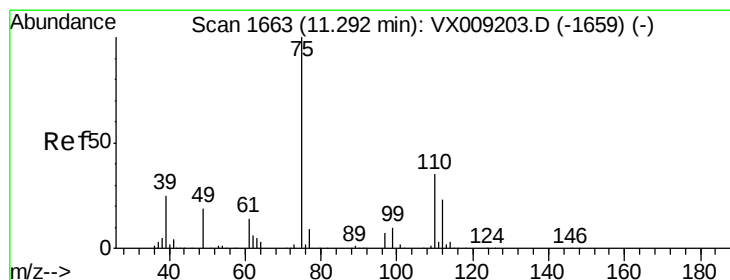
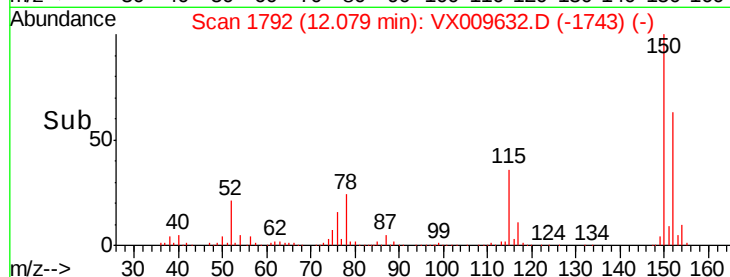
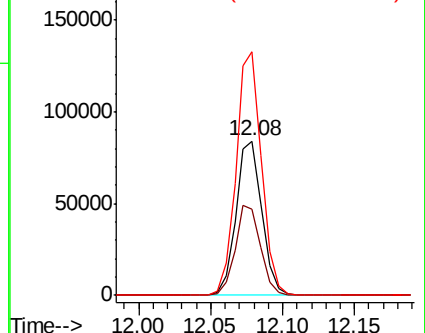
150 155.1 0.0 346.4



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: 24.476 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009632.D

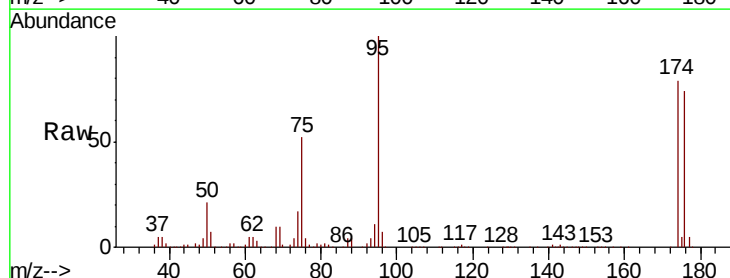
Acq: 17 May 2019 01:43

Tgt Ion: 75 Resp: 59820

Ion Ratio Lower Upper

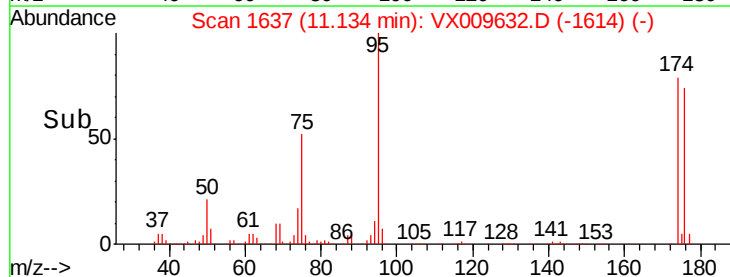
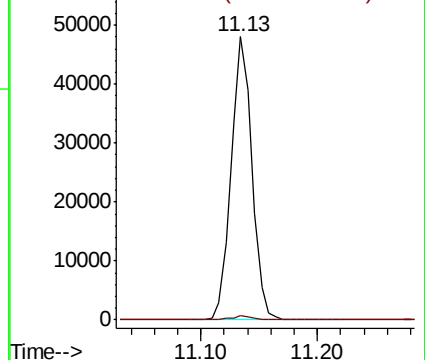
75 100

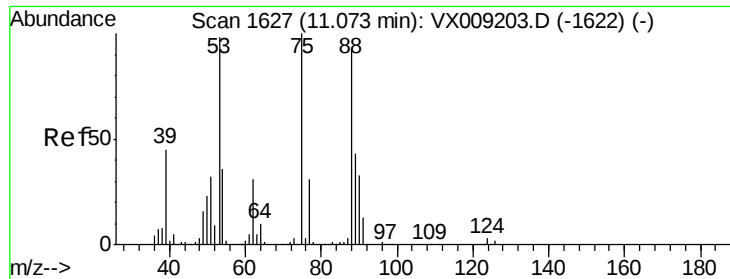
77 1.4 22.1 66.1#



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: 62.624 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009632.D

Acq: 17 May 2019 01:43

Instrument :

MSVOA_X

ClientSampleId :

SS052MW750-190514

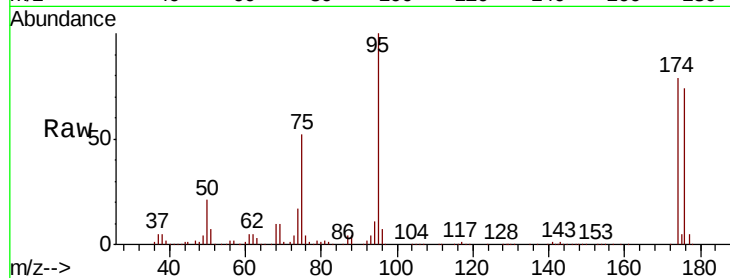
Tot Ion: 75 Resp: 59820

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

89 0.0 34.7 52.1#



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

