

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041719\
 Data File : VX009015.D
 Acq On : 17 Apr 2019 15:23
 Operator : JC/SP
 Sample : K2449-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-TB10-190415

Quant Time: Apr 18 01:37:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 06:47:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	255934	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	404259	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	351757	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	150073	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	163579	45.35	ug/l	0.00
Spiked Amount			Recovery	=	90.70%	
35) Dibromofluoromethane	5.50	113	121627	46.88	ug/l	0.00
Spiked Amount			Recovery	=	93.76%	
50) Toluene-d8	8.71	98	503133	48.63	ug/l	0.00
Spiked Amount			Recovery	=	97.26%	
62) 4-Bromofluorobenzene	11.13	95	166030	45.46	ug/l	0.00
Spiked Amount			Recovery	=	90.92%	

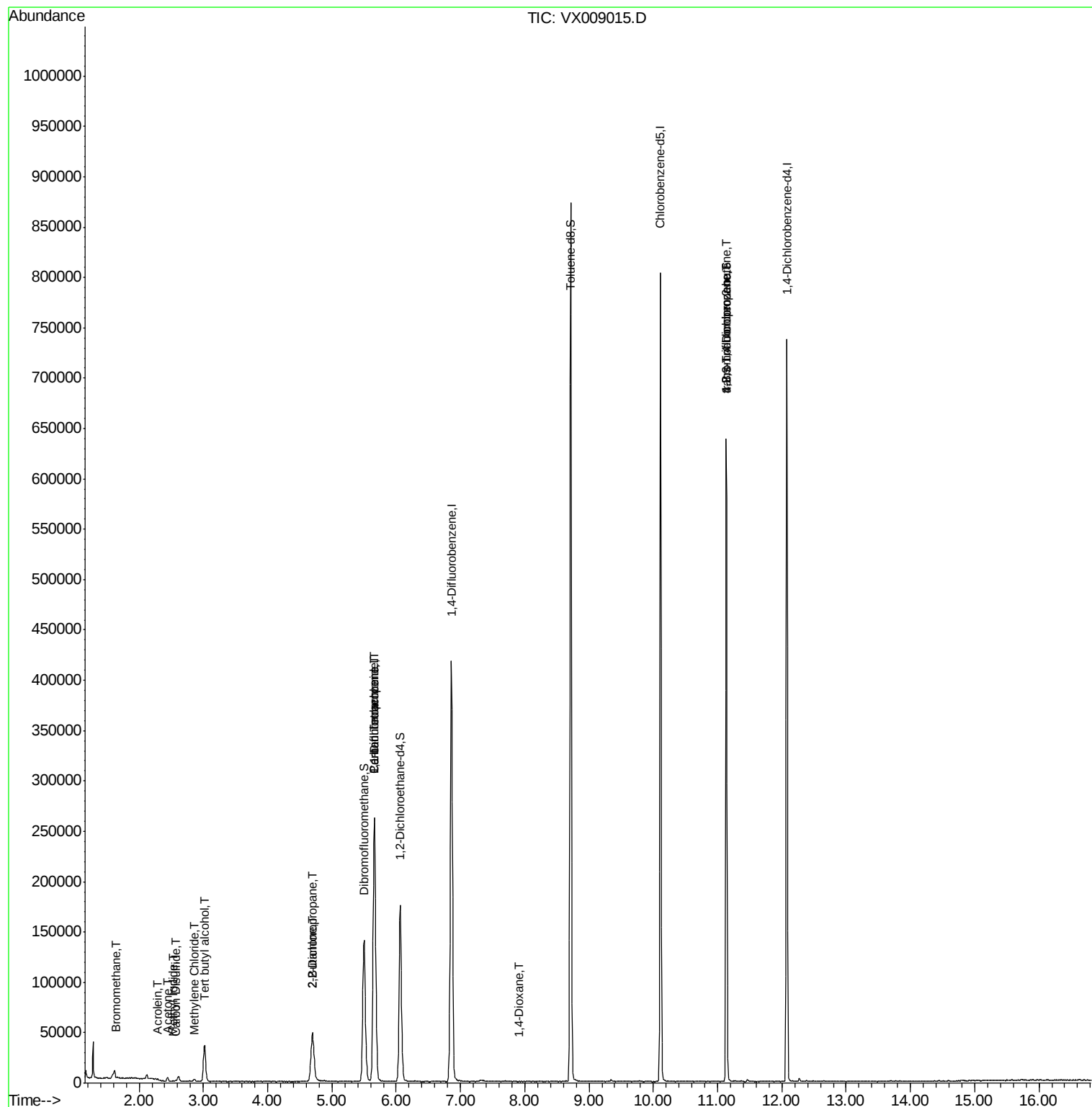
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	280	3.965	ug/l	88
10) Methyl Iodide	2.52	142	340	4.522	ug/l #	81
11) Tert butyl alcohol	3.02	59	24199	30.225	ug/l #	77
13) Acrolein	2.28	56	186	0.269	ug/l #	14
16) Acetone	2.45	43	4399	2.352	ug/l	92
17) Carbon Disulfide	2.57	76	799	1.349	ug/l #	80
20) Methylene Chloride	2.86	84	1182	0.370	ug/l #	72
25) 2-Butanone	4.70	43	3506	1.173	ug/l #	87
26) 2,2-Dichloropropane	4.70	77	3850	0.879	ug/l #	52
28) Bromochloromethane	5.01	49	129	Below Cal	#	21
36) 1,1-Dichloropropene	5.66	75	19754	4.725	ug/l #	50
38) Carbon Tetrachloride	5.67	117	23859	6.731	ug/l #	17
49) 1,4-Dioxane	7.90	88	40	0.499	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	84364	23.022	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	84364	59.104	ug/l #	11

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

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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: VX009015.D

Acq: 17 Apr 2019 15:23

Instrument :

MSVOA_X

ClientSampled :

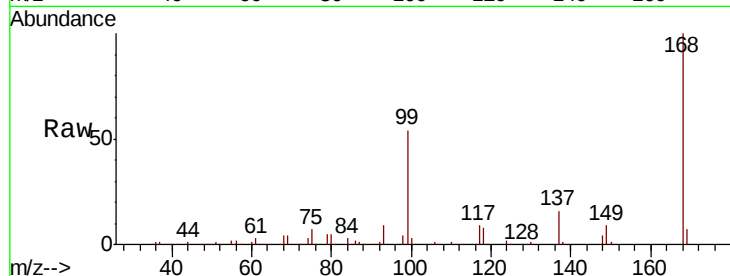
Z3-TB10-190415

Tot Ion:168 Resp: 255934

Ion Ratio Lower Upper

168 100

99 53.9 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

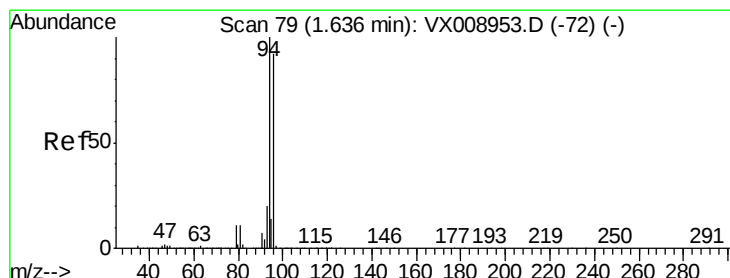
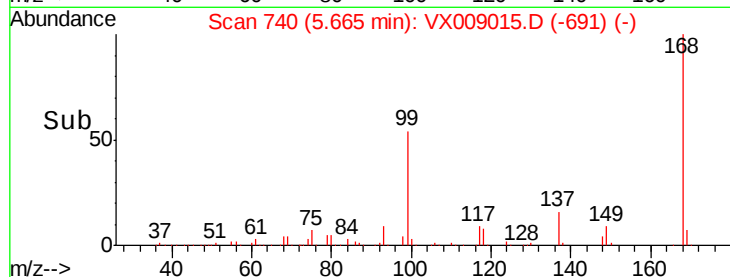
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 3.965 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX009015.D

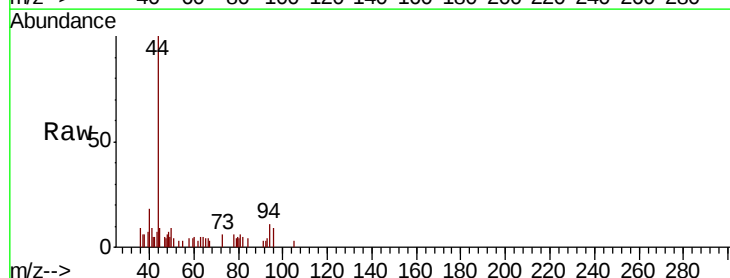
Acq: 17 Apr 2019 15:23

Tgt Ion: 94 Resp: 280

Ion Ratio Lower Upper

94 100

96 104.1 73.9 110.9



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

200

150

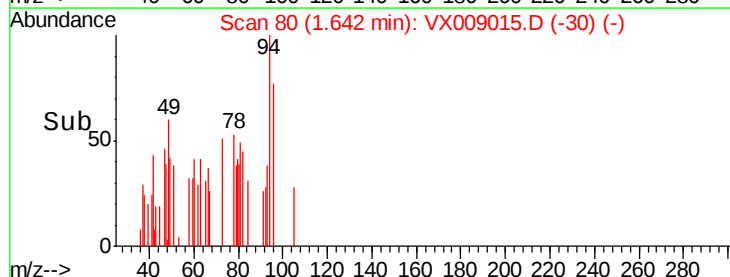
100

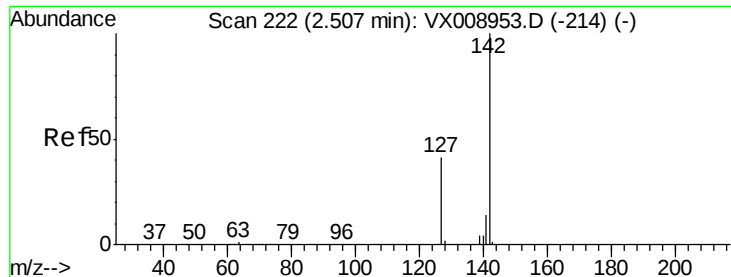
50

0

Time-->

1.60 1.65 1.70

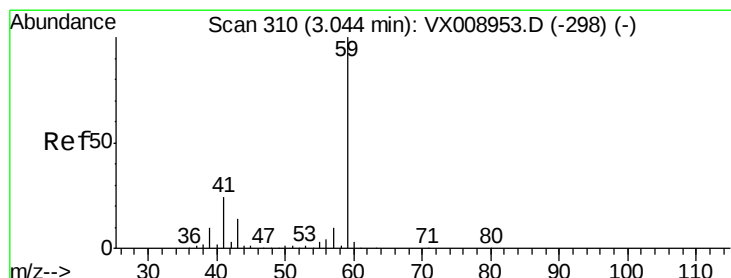
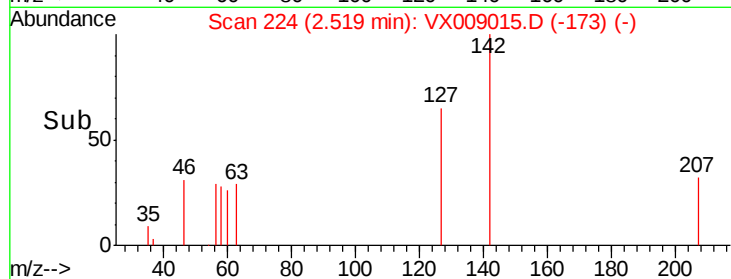
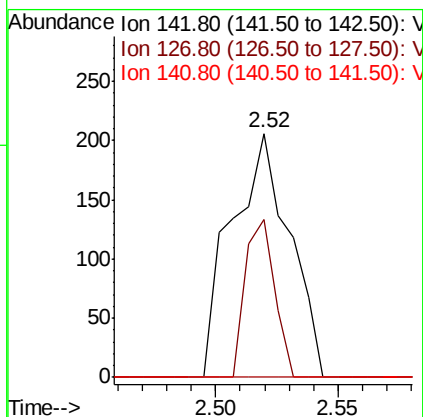
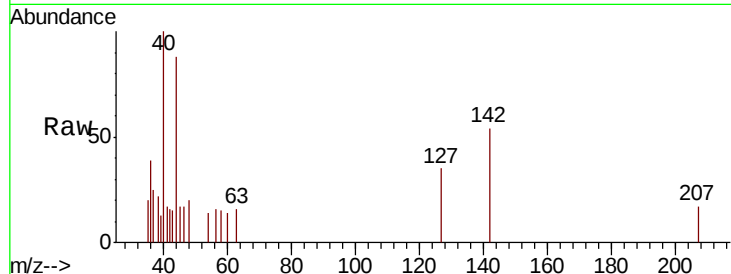




#10
Methvl Iodide
Concen: 4.522 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX009015.D
Acq: 17 Apr 2019 15:23

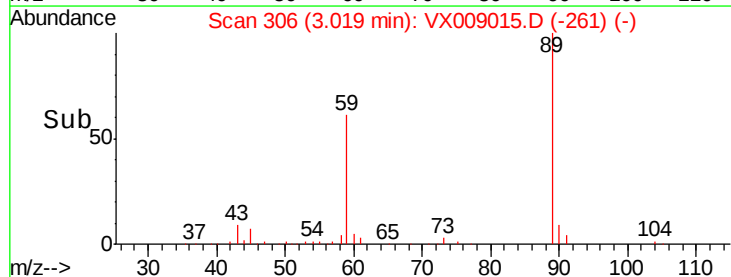
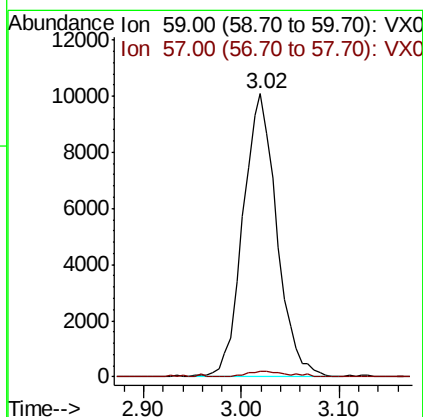
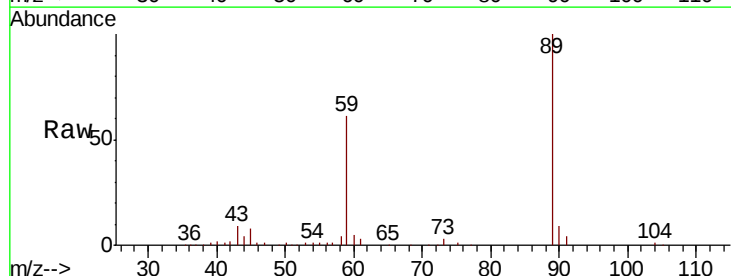
Instrument :
MSVOA_X
ClientSampleId :
Z3-TB10-190415

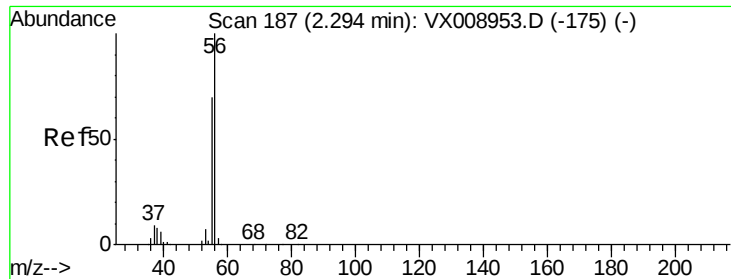
Tot Ion:142 Resp: 340
Ion Ratio Lower Upper
142 100
127 32.6 32.8 49.2#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 30.225 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.02 min
Lab File: VX009015.D
Acq: 17 Apr 2019 15:23

Tgt Ion: 59 Resp: 24199
Ion Ratio Lower Upper
59 100
57 2.0 8.4 12.6#





#13

Acrolein

Concen: 0.269 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX009015.D

Acq: 17 Apr 2019 15:23

Instrument :

MSVOA_X

ClientSampleId :

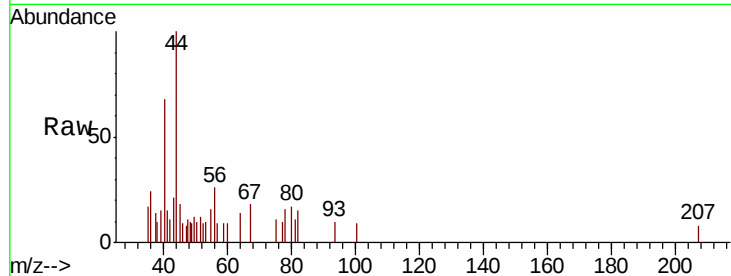
Z3-TB10-190415

Tot Ion: 56 Resp: 186

Ion Ratio Lower Upper

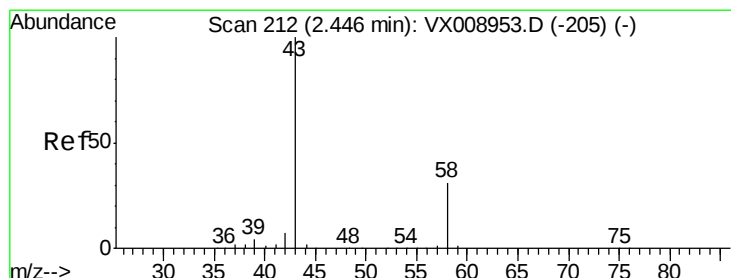
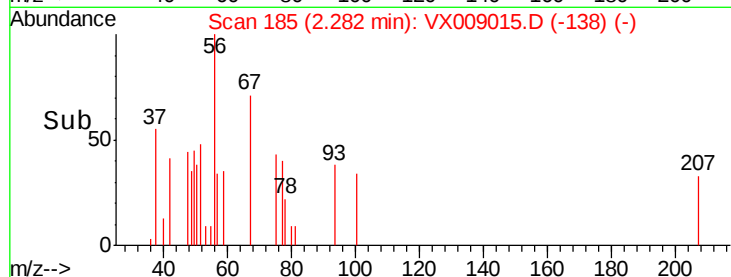
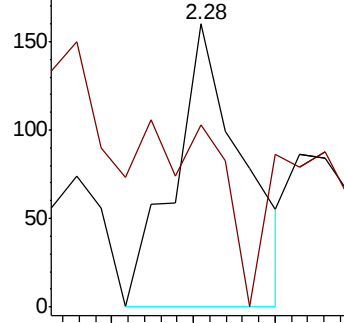
56 100

55 0.0 56.6 84.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 2.352 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009015.D

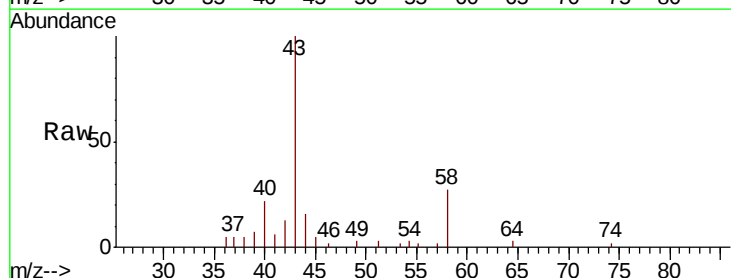
Acq: 17 Apr 2019 15:23

Tgt Ion: 43 Resp: 4399

Ion Ratio Lower Upper

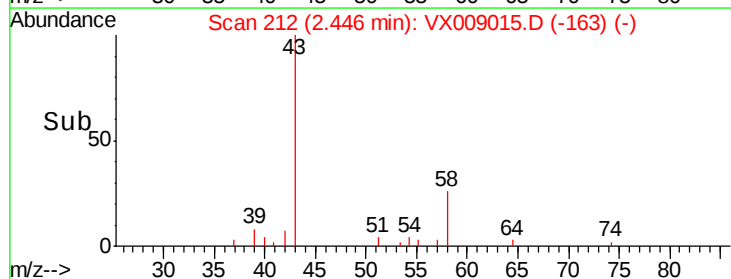
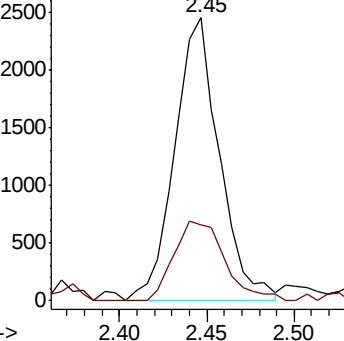
43 100

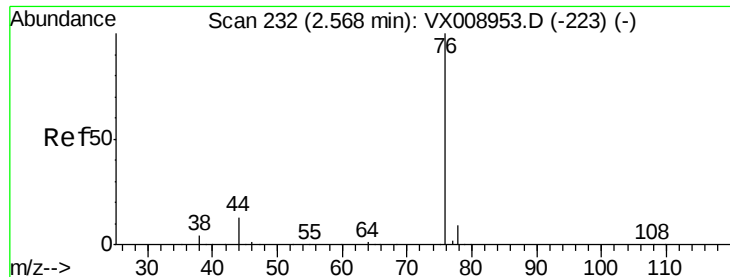
58 26.8 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 1.349 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009015.D

Acq: 17 Apr 2019 15:23

Instrument :

MSVOA_X

ClientSampleId :

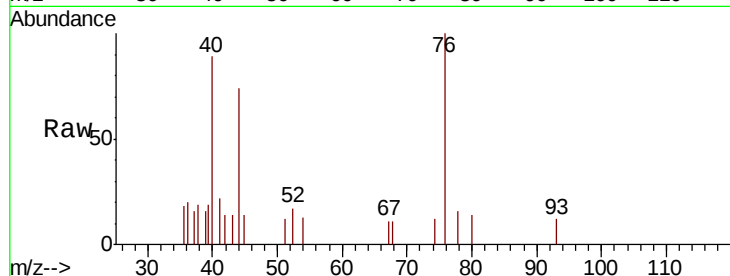
Z3-TB10-190415

Tot Ion: 76 Resp: 799

Ion Ratio Lower Upper

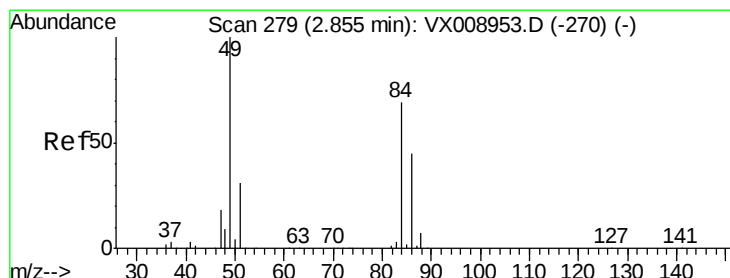
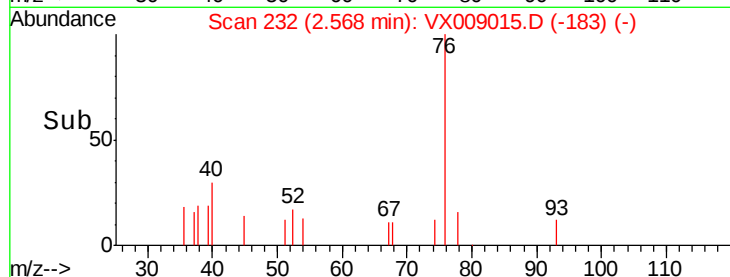
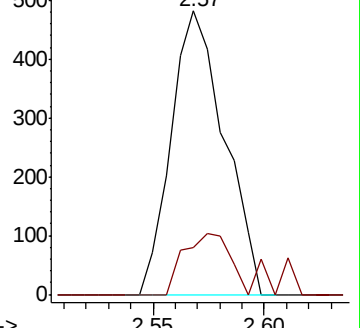
76 100

78 16.4 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.370 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX009015.D

Acq: 17 Apr 2019 15:23

Tgt Ion: 84 Resp: 1182

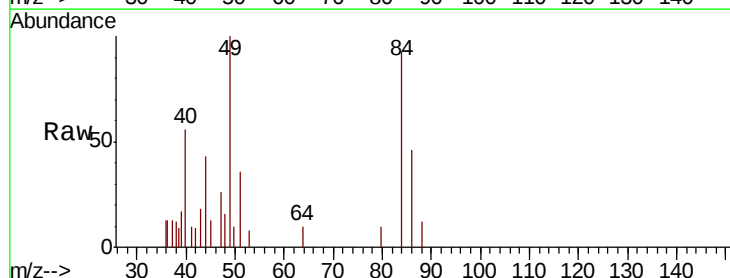
Ion Ratio Lower Upper

84 100

49 96.5 115.4 173.0#

51 39.0 35.8 53.6

86 50.1 52.1 78.1#

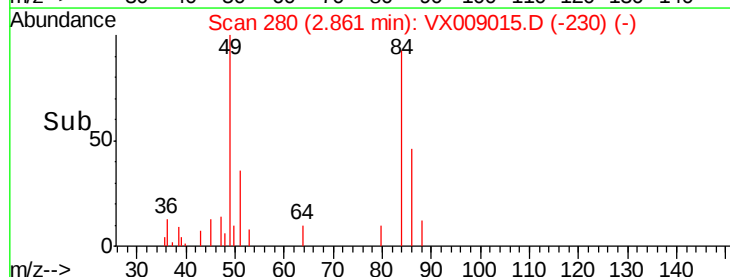
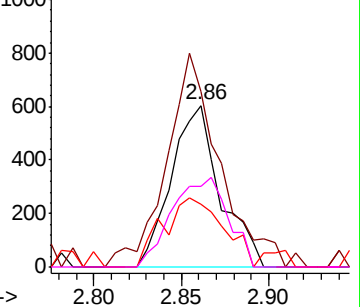


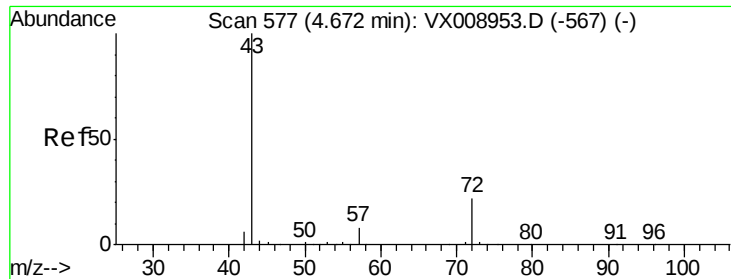
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#25

2-Butanone

Concen: 1.173 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.02 min

Lab File: VX009015.D

Acq: 17 Apr 2019 15:23

Instrument :

MSVOA_X

ClientSampleId :

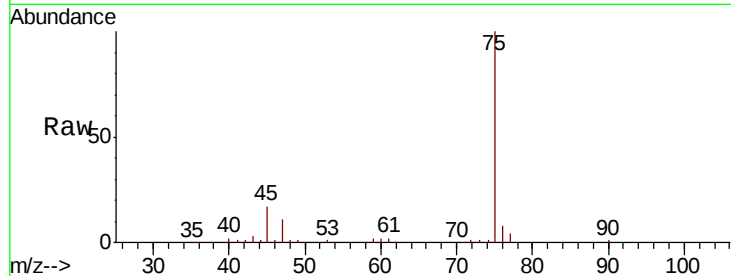
Z3-TB10-190415

Tot Ion: 43 Resp: 3506

Ion Ratio Lower Upper

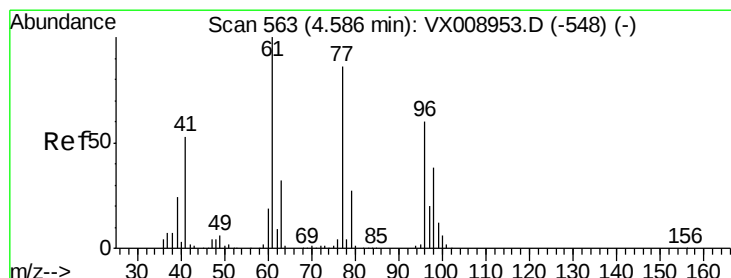
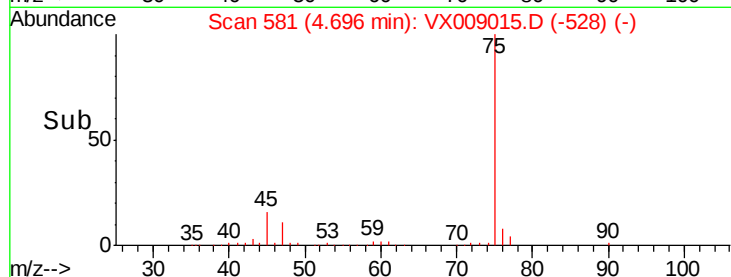
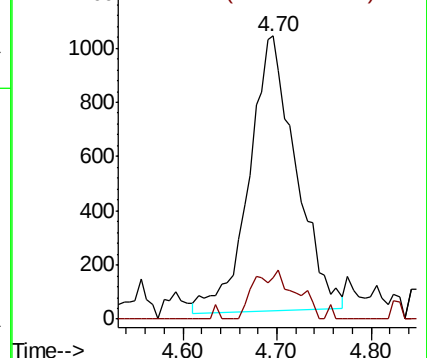
43 100

72 15.7 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#26

2,2-Dichloropropane

Concen: 0.879 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.11 min

Lab File: VX009015.D

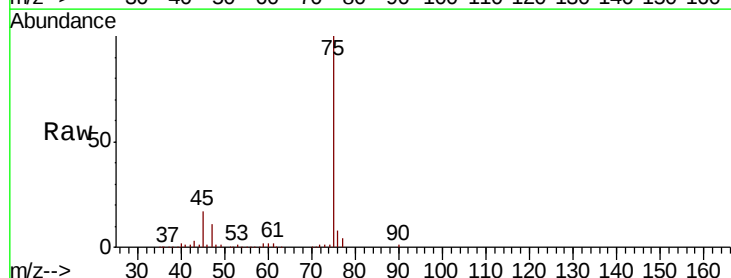
Acq: 17 Apr 2019 15:23

Tgt Ion: 77 Resp: 3850

Ion Ratio Lower Upper

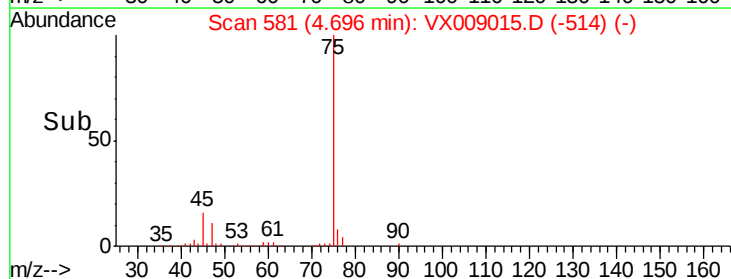
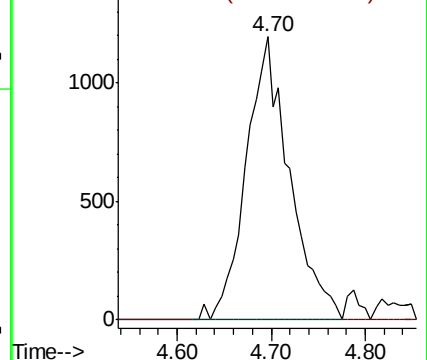
77 100

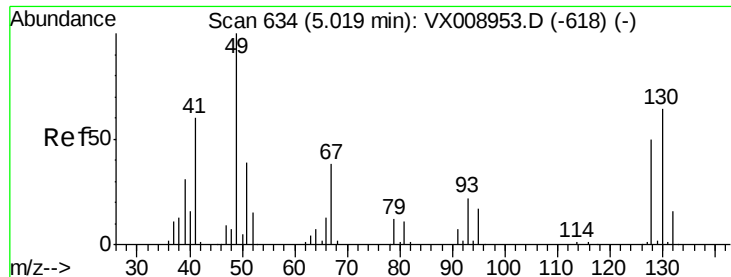
97 0.0 11.7 35.0#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 633

Delta R.T. -0.01 min

Lab File: VX009015.D

Acq: 17 Apr 2019 15:23

Instrument :

MSVOA_X

ClientSampleId :

Z3-TB10-190415

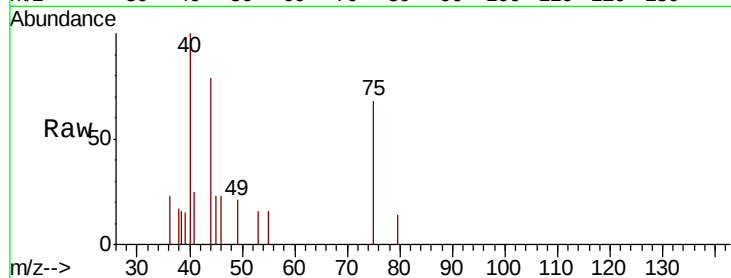
Tot Ion: 49 Resp: 129

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

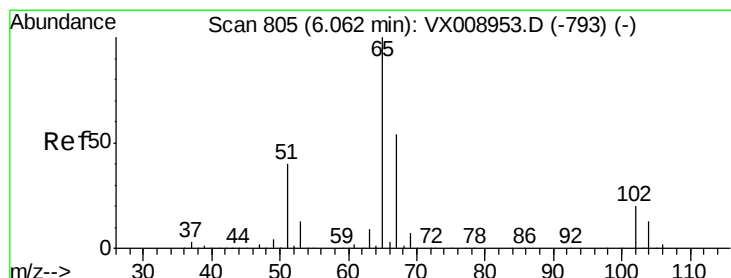
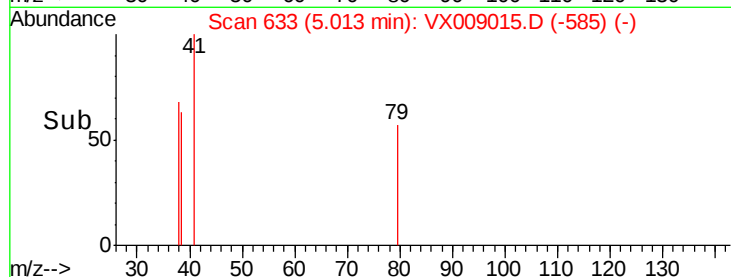
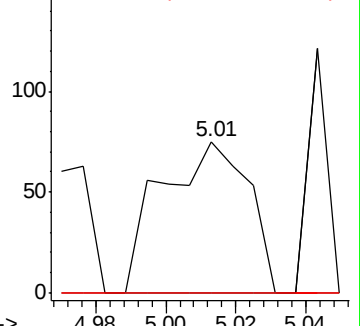
130 0.0 50.4 75.6#



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



#33

1,2-Dichloroethane-d4

Concen: 45.352 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009015.D

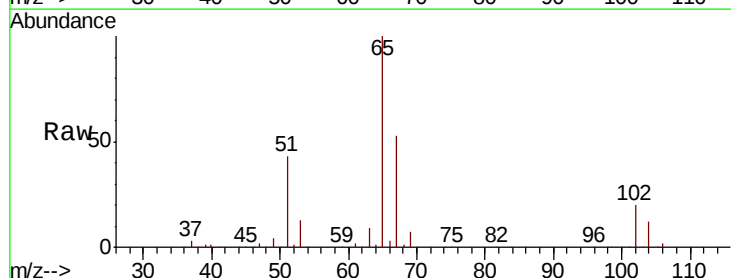
Acq: 17 Apr 2019 15:23

Tgt Ion: 65 Resp: 163579

Ion Ratio Lower Upper

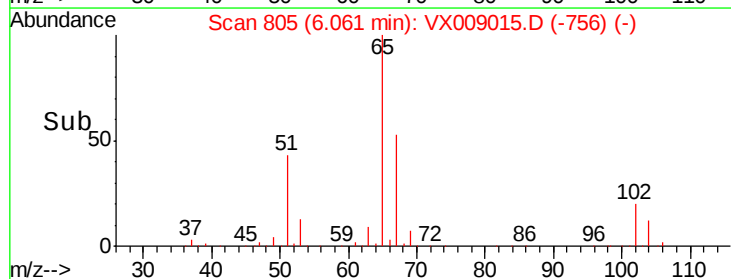
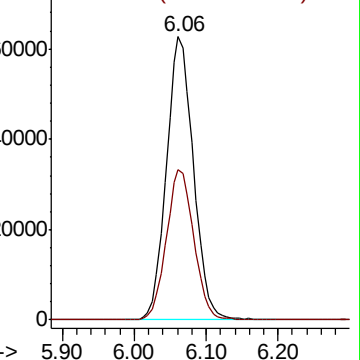
65 100

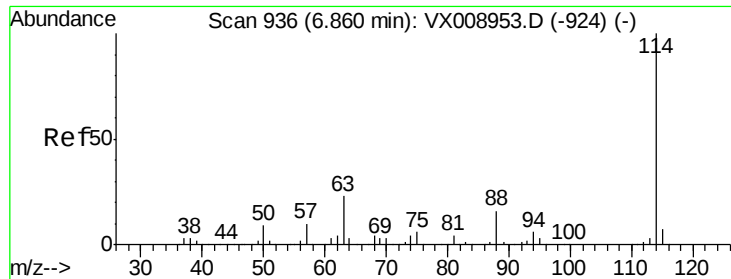
67 54.2 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

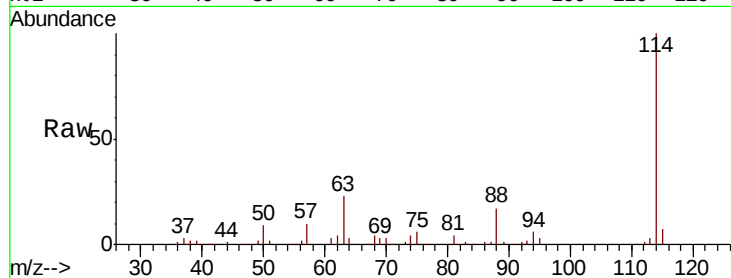




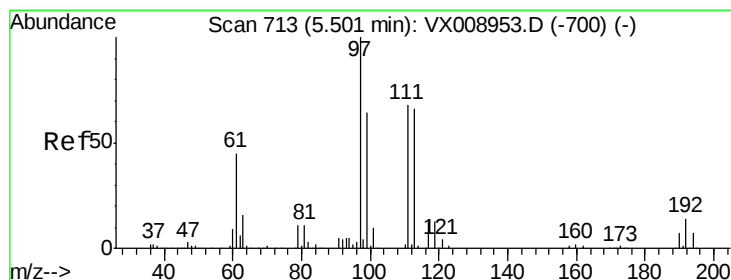
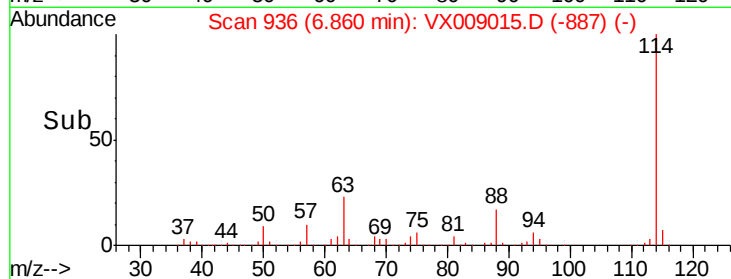
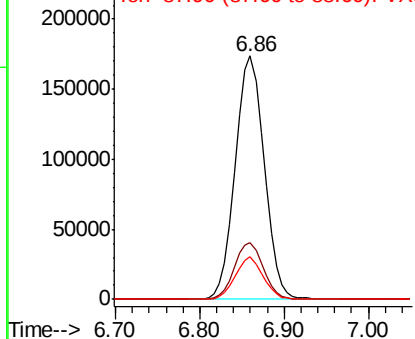
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.00 min
Lab File: VX009015.D
Acq: 17 Apr 2019 15:23

Instrument :
MSVOA_X
ClientSampleId :
Z3-TB10-190415

Tot Ion:114 Resp: 404259
Ion Ratio Lower Upper
114 100
63 23.1 0.0 46.0
88 17.3 0.0 32.6

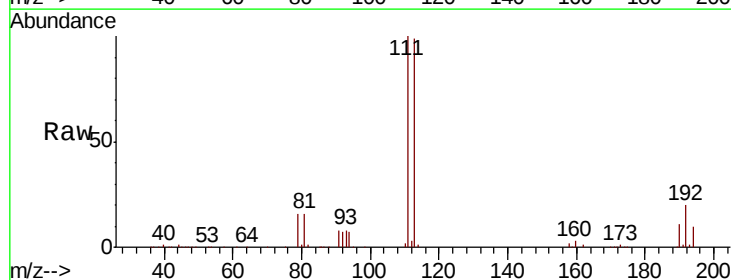


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

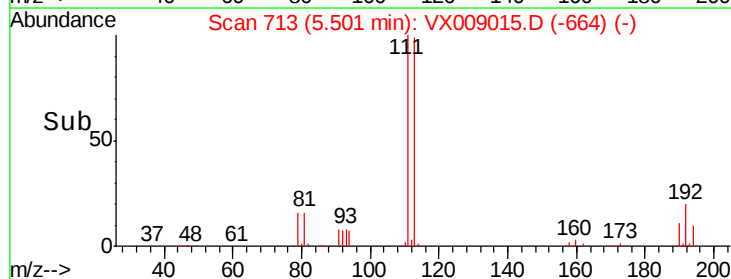
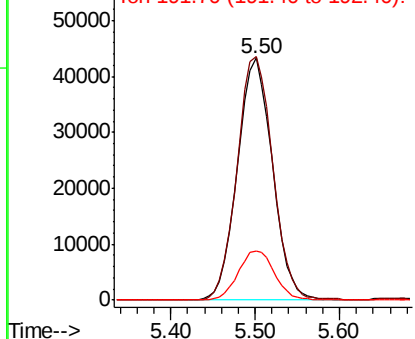


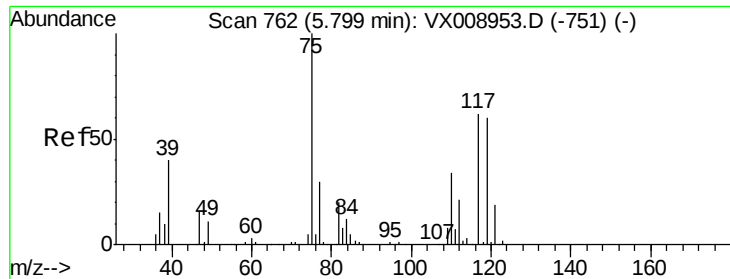
#35
Dibromofluoromethane
Concen: 46.880 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX009015.D
Acq: 17 Apr 2019 15:23

Tgt Ion:113 Resp: 121627
Ion Ratio Lower Upper
113 100
111 102.7 82.9 124.3
192 21.1 17.4 26.0



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: 4.725 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009015.D

Acq: 17 Apr 2019 15:23

Instrument :

MSVOA_X

ClientSampleId :

Z3-TB10-190415

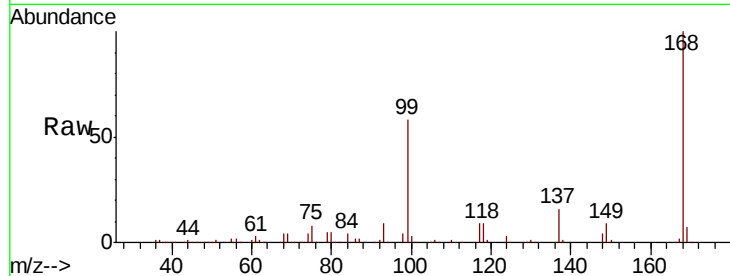
Tot Ion: 75 Resp: 19754

Ion Ratio Lower Upper

75 100

110 8.9 16.9 50.7#

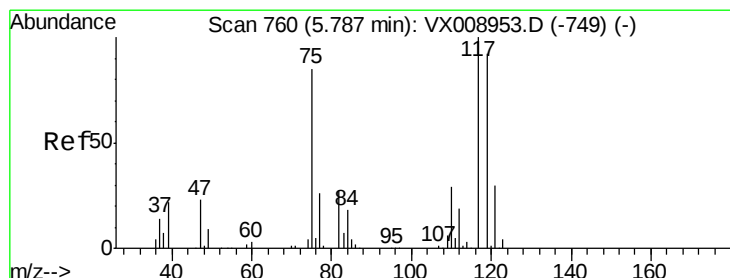
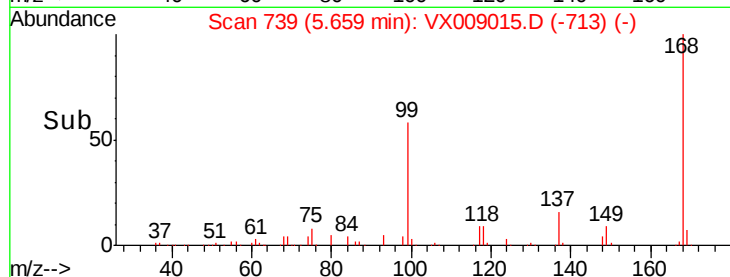
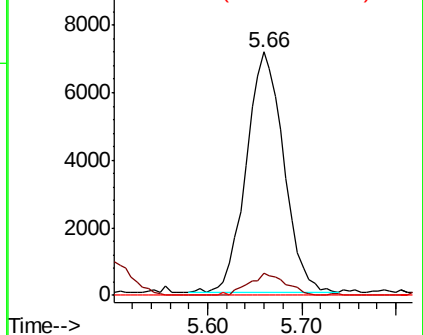
77 0.0 25.0 37.4#



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: 6.731 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009015.D

Acq: 17 Apr 2019 15:23

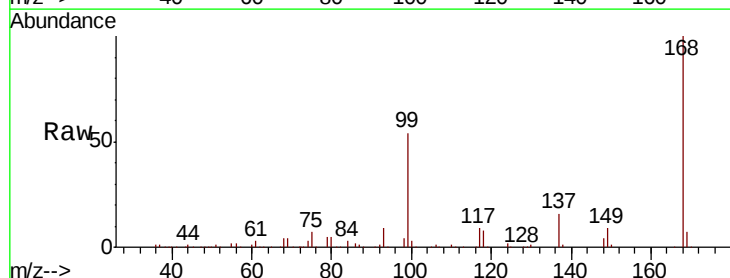
Tgt Ion:117 Resp: 23859

Ion Ratio Lower Upper

117 100

119 4.4 73.8 110.8#

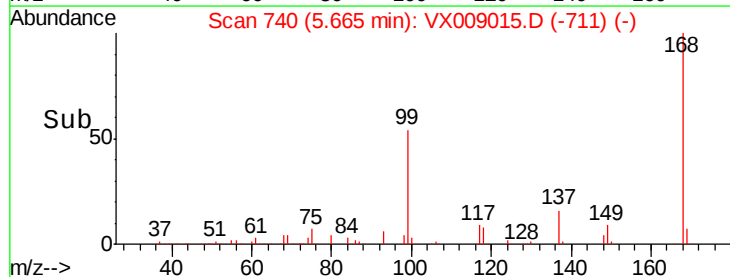
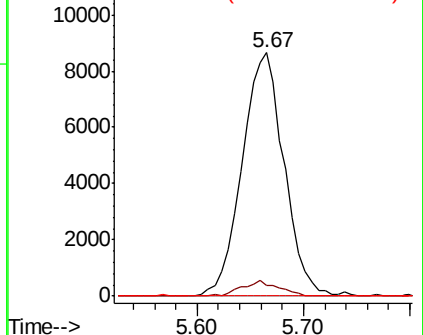
121 0.0 23.6 35.4#

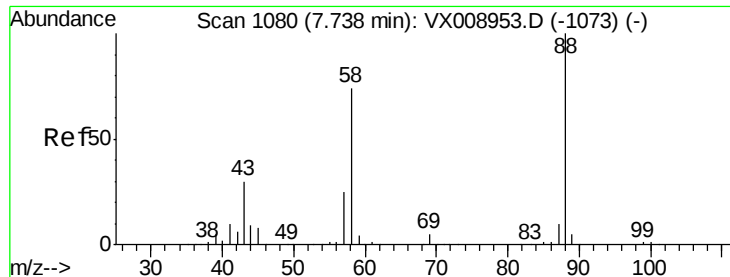


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

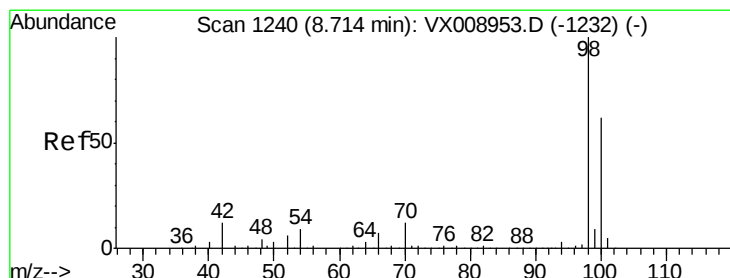
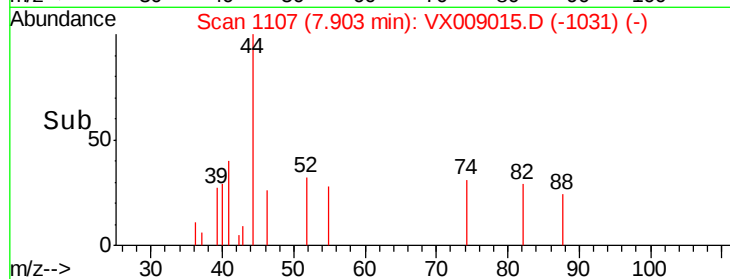
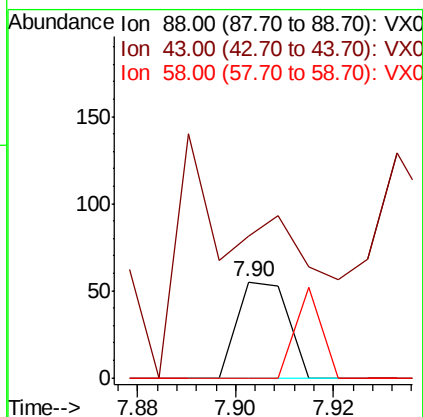
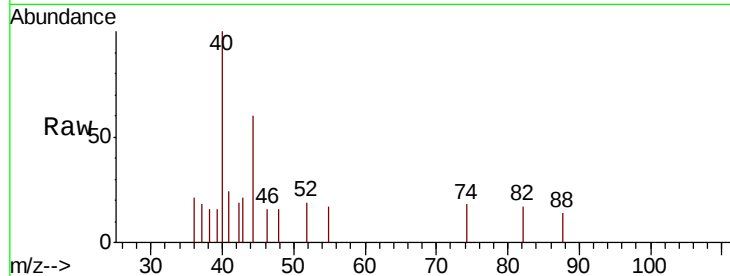




#49
1,4-Dioxane
Concen: 0.499 ug/l
RT: 7.90 min Scan# 1107
Delta R.T. 0.16 min
Lab File: VX009015.D
Acq: 17 Apr 2019 15:23

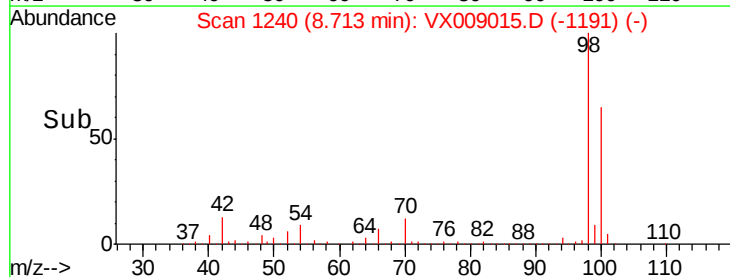
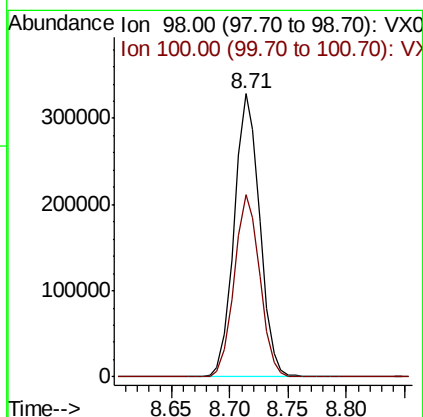
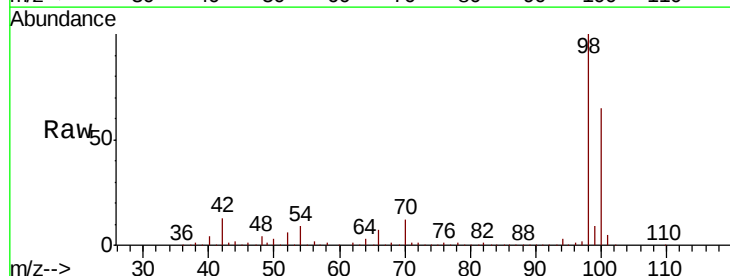
Instrument :
MSVOA_X
ClientSampleId :
Z3-TB10-190415

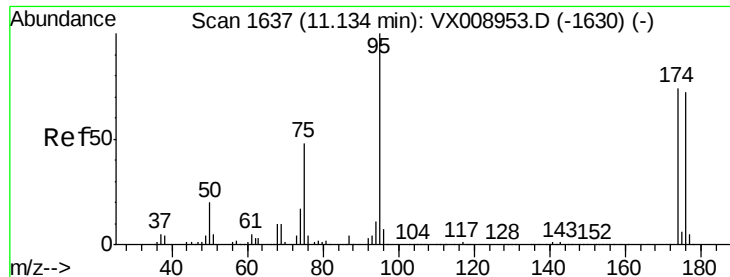
Tot Ion: 88 Resp: 40
Ion Ratio Lower Upper
88 100
43 457.5 29.3 43.9#
58 0.0 62.6 93.8#



#50
Toluene-d8
Concen: 48.627 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX009015.D
Acq: 17 Apr 2019 15:23

Tgt Ion: 98 Resp: 503133
Ion Ratio Lower Upper
98 100
100 64.5 51.4 77.2





#62

4-Bromofluorobenzene

Concen: 45.457 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009015.D

Acq: 17 Apr 2019 15:23

Instrument :

MSVOA_X

ClientSampleId :

Z3-TB10-190415

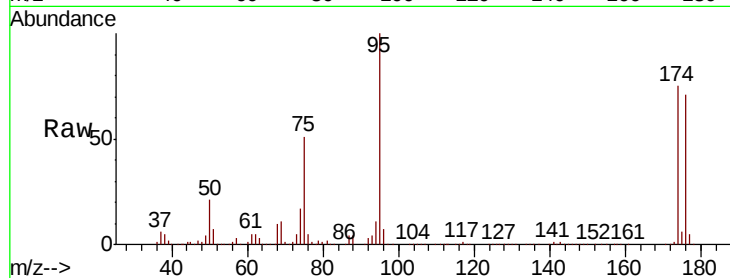
Tot Ion: 95 Resp: 166030

Ion Ratio Lower Upper

95 100

174 79.6 0.0 159.6

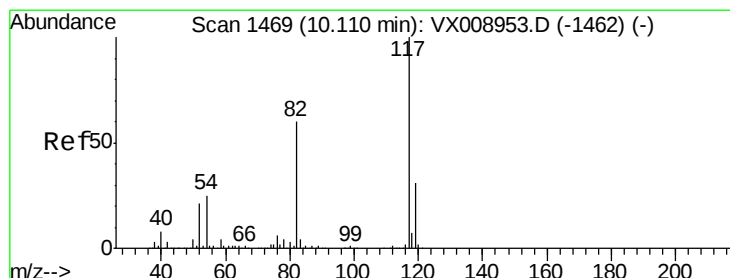
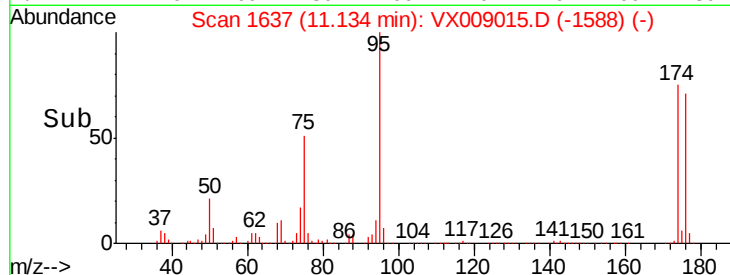
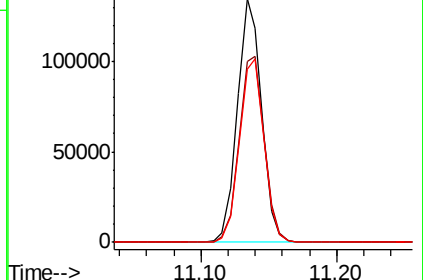
176 77.1 0.0 154.8



Abundance Ion 94.90 (94.60 to 95.60): VX008953.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX008953.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX008953.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX009015.D

Acq: 17 Apr 2019 15:23

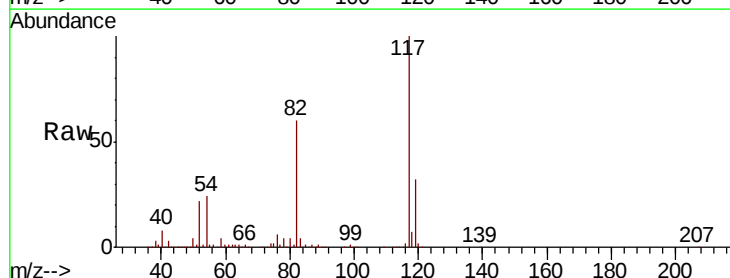
Tgt Ion: 117 Resp: 351757

Ion Ratio Lower Upper

117 100

82 60.4 48.2 72.4

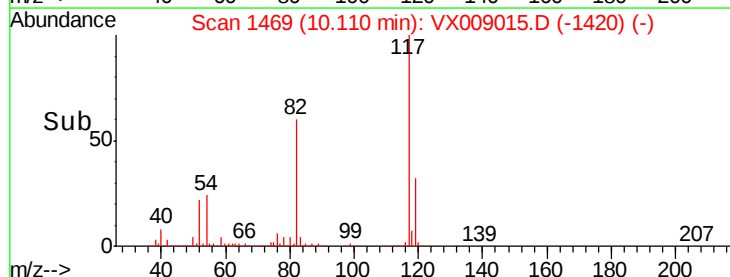
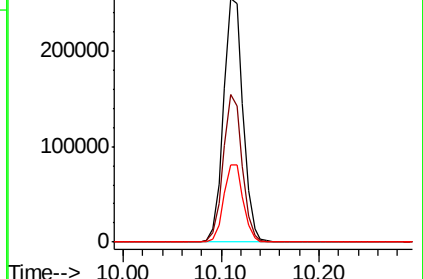
119 31.9 25.0 37.6

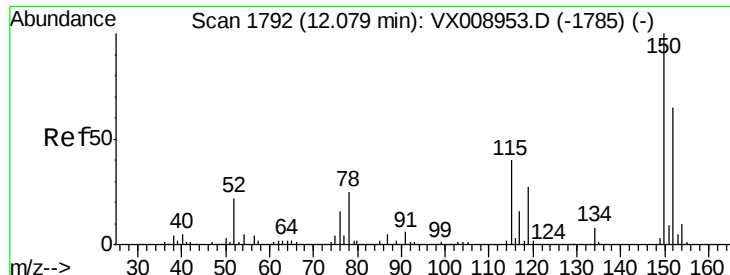


Abundance Ion 116.90 (116.60 to 117.60): VX008953.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX008953.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX008953.D (-1462) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009015.D

Acq: 17 Apr 2019 15:23

Instrument :

MSVOA_X

ClientSampleId :

Z3-TB10-190415

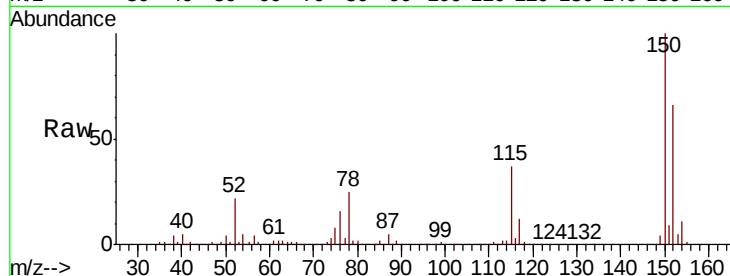
Tot Ion:152 Resp: 150073

Ion Ratio Lower Upper

152 100

115 58.3 41.4 124.2

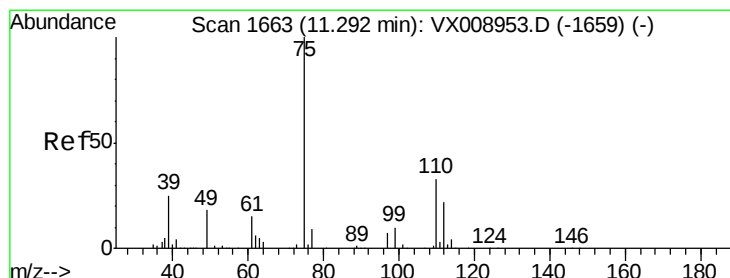
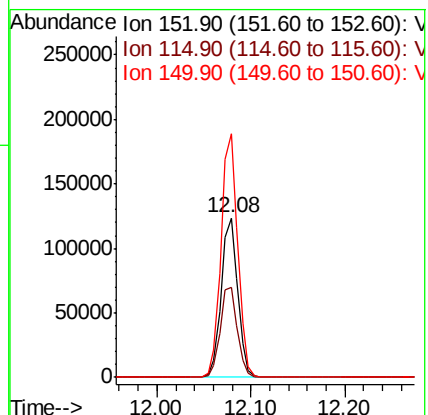
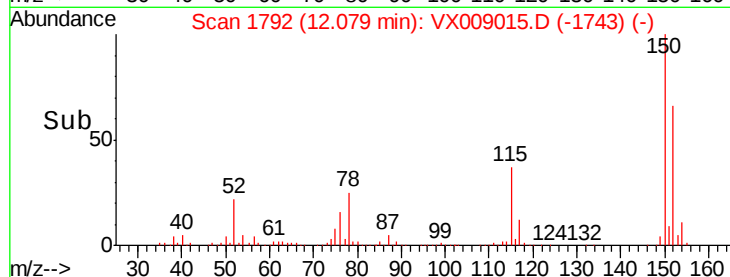
150 154.3 0.0 349.8



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: 23.022 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009015.D

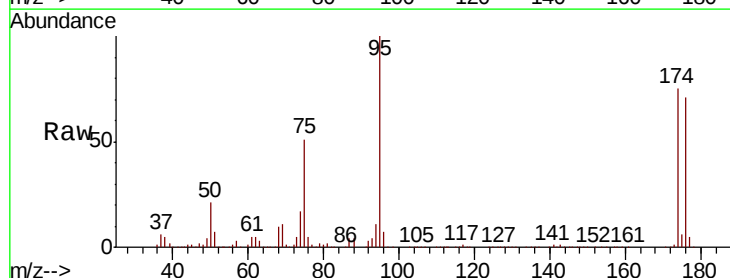
Acq: 17 Apr 2019 15:23

Tgt Ion: 75 Resp: 84364

Ion Ratio Lower Upper

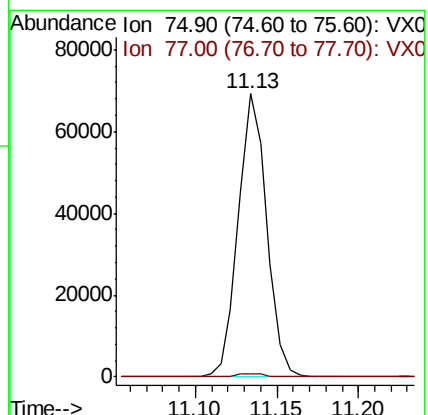
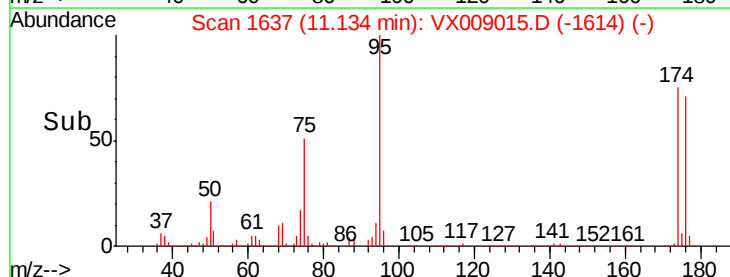
75 100

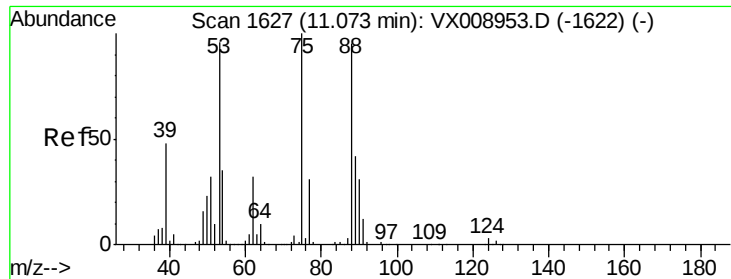
77 1.3 22.7 68.0#



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: 59.104 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009015.D

Acq: 17 Apr 2019 15:23

Instrument :

MSVOA_X

ClientSampleId :

Z3-TB10-190415

Tot Ion: 75 Resp: 84364

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.0 36.0 54.0#

