

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052219\
 Data File : VX009804.D
 Acq On : 22 May 2019 15:10
 Operator : JC/SP
 Sample : K2977-16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 23 07:16:21 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	5.66	168	168668	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	270954	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	237514	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	100049	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	114368	49.67	ug/l	0.00
Spiked Amount			Recovery	=	99.34%	
35) Dibromofluoromethane	5.50	113	83229	48.86	ug/l	0.00
Spiked Amount			Recovery	=	97.72%	
50) Toluene-d8	8.71	98	340564	49.52	ug/l	0.00
Spiked Amount			Recovery	=	99.04%	
62) 4-Bromofluorobenzene	11.13	95	110283	44.14	ug/l	0.00
Spiked Amount			Recovery	=	88.28%	

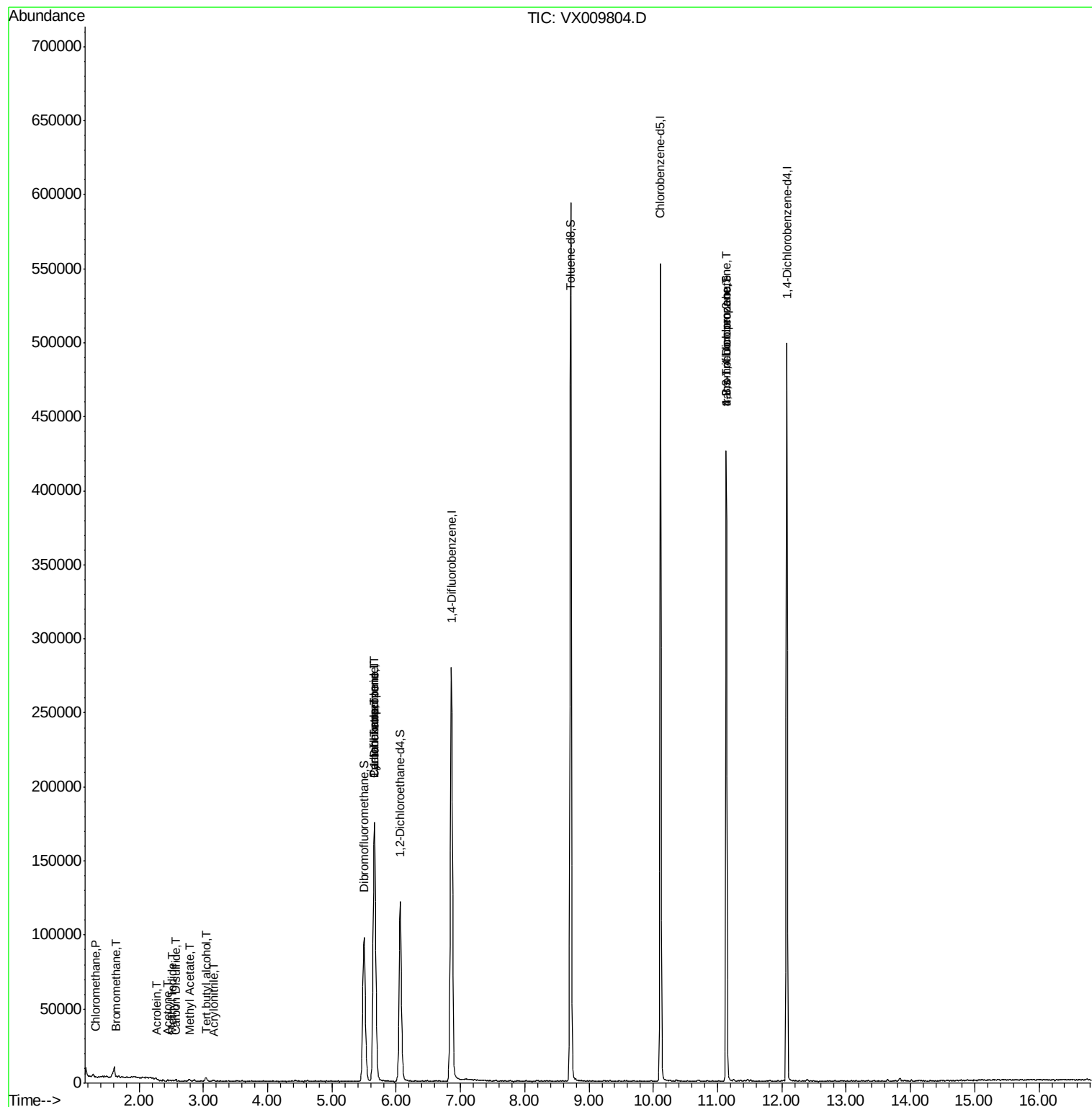
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	661	0.311	ug/l #	79
5) Bromomethane	1.64	94	275	0.221	ug/l #	59
10) Methyl Iodide	2.51	142	257	4.721	ug/l #	79
11) Tert butyl alcohol	3.04	59	2329	4.370	ug/l #	82
13) Acrolein	2.28	56	127	0.263	ug/l #	14
15) Acrylonitrile	3.15	53	303	0.233	ug/l #	57
16) Acetone	2.44	43	954	0.772	ug/l	99
17) Carbon Disulfide	2.57	76	1052	0.237	ug/l #	75
18) Methyl Acetate	2.78	43	2051	0.698	ug/l	99
28) Bromochloromethane	5.02	49	84	Below Cal	#	20
31) Cyclohexane	5.66	56	4049	1.189	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	13449	5.341	ug/l #	50
38) Carbon Tetrachloride	5.66	117	15950	6.972	ug/l #	18
76) 1,2,3-Trichloropropane	11.13	75	57363	24.717	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	57363	63.242	ug/l #	10

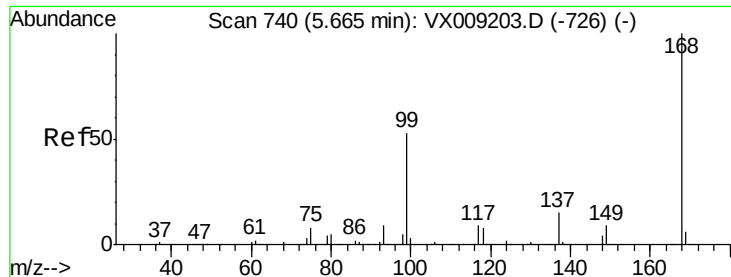
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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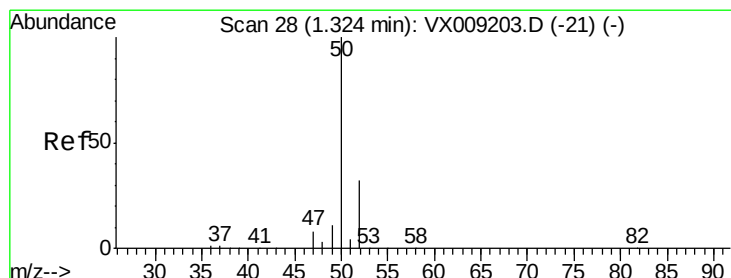
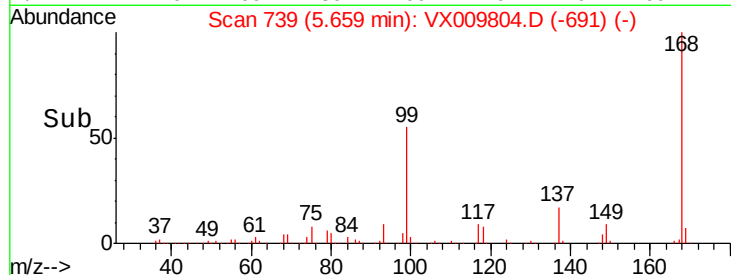
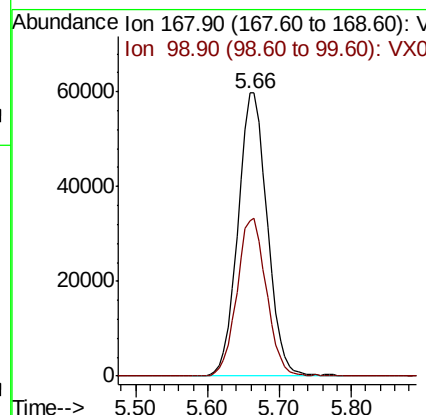
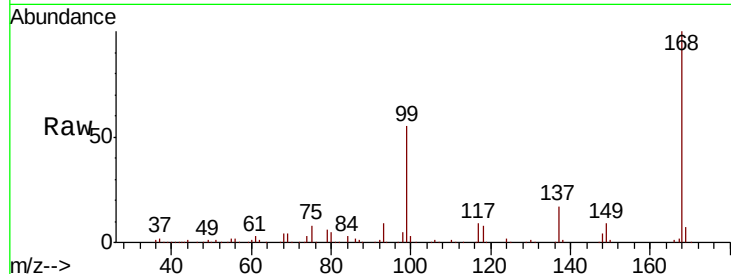




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.01 min
Lab File: VX009804.D
Acq: 22 May 2019 15:10

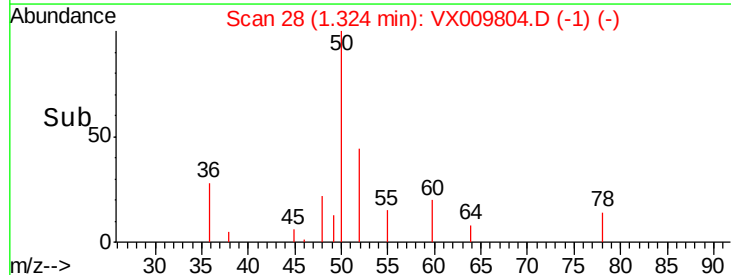
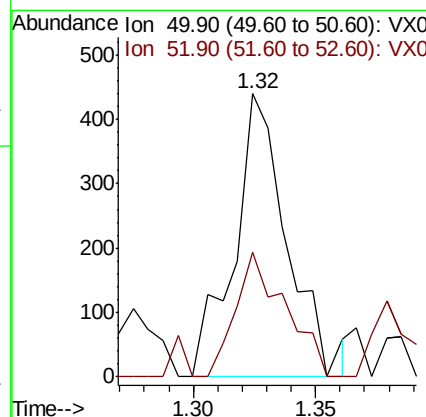
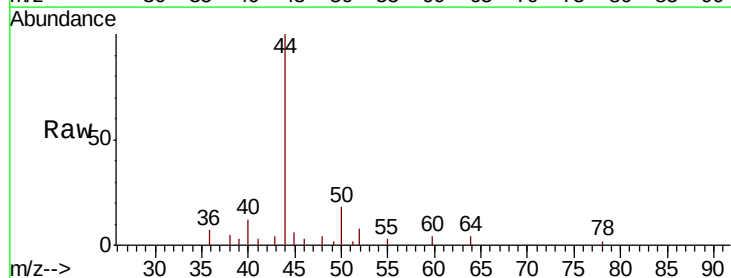
Instrument :
MSVOA_X
ClientSampled :

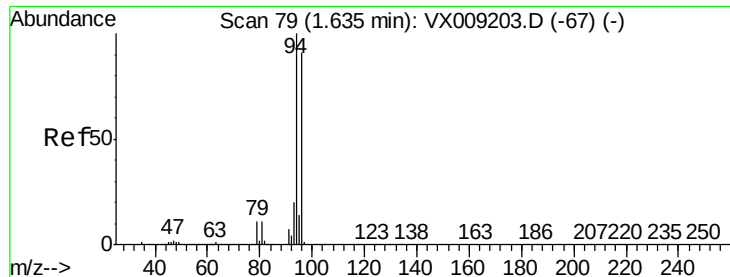
Tot Ion:168 Resp: 168668
Ion Ratio Lower Upper
168 100
99 54.9 42.3 63.5



#3
Chloromethane
Concen: 0.311 ug/l
RT: 1.32 min Scan# 28
Delta R.T. -0.00 min
Lab File: VX009804.D
Acq: 22 May 2019 15:10

Tgt Ion: 50 Resp: 661
Ion Ratio Lower Upper
50 100
52 44.2 25.9 38.9#





#5

Bromomethane

Concen: 0.221 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX009804.D

Acq: 22 May 2019 15:10

Instrument :

MSVOA_X

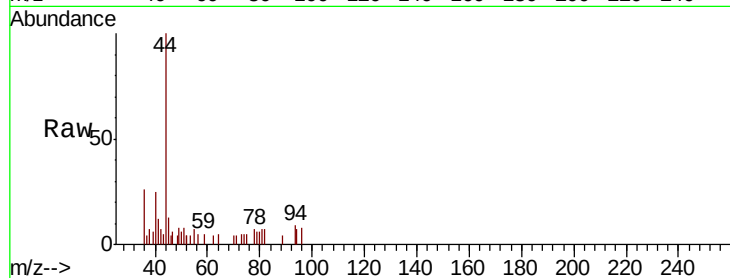
ClientSampled :

Tot Ion: 94 Resp: 275

Ion Ratio Lower Upper

94 100

96 52.2 73.0 109.6#



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

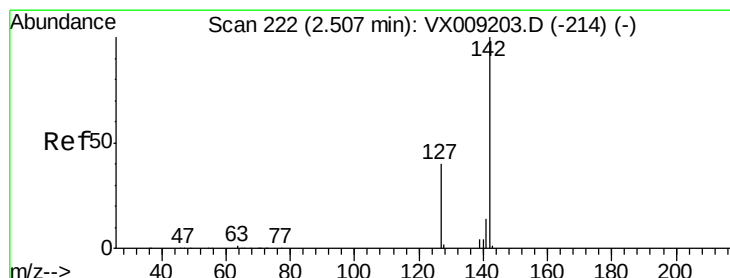
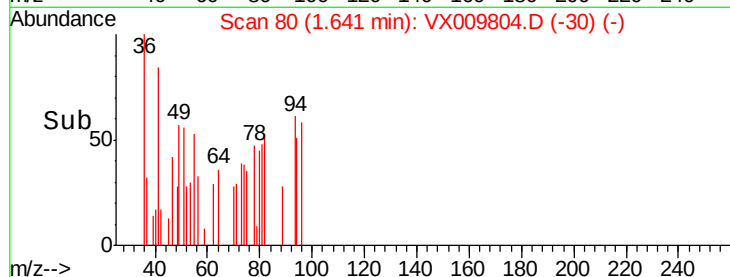
0

1.60

1.65

1.70

Time-->



#10

Methyl Iodide

Concen: 4.721 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX009804.D

Acq: 22 May 2019 15:10

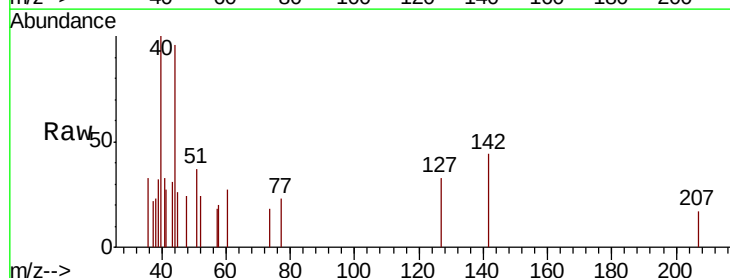
Tgt Ion: 142 Resp: 257

Ion Ratio Lower Upper

142 100

127 30.7 32.7 49.1#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

150

100

50

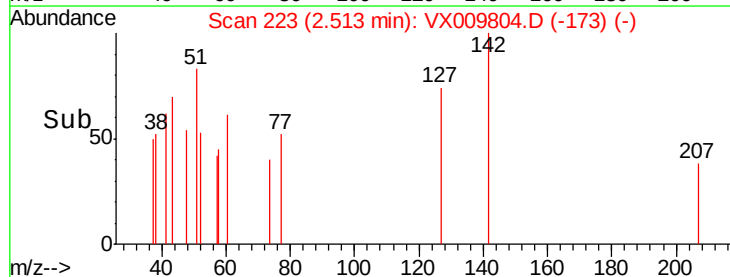
0

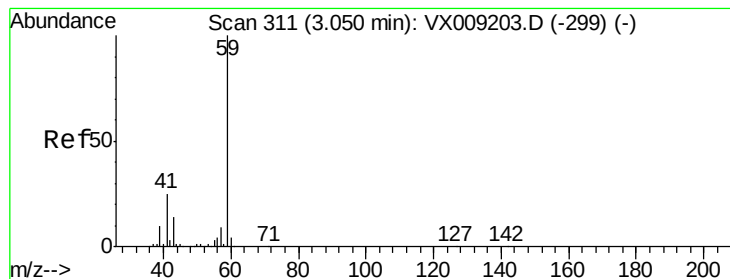
2.50

2.51

2.55

Time-->





#11

Tert butyl alcohol

Concen: 4.370 ug/l

RT: 3.04 min Scan# 310

Delta R.T. -0.01 min

Lab File: VX009804.D

Acq: 22 May 2019 15:10

Instrument :

MSVOA_X

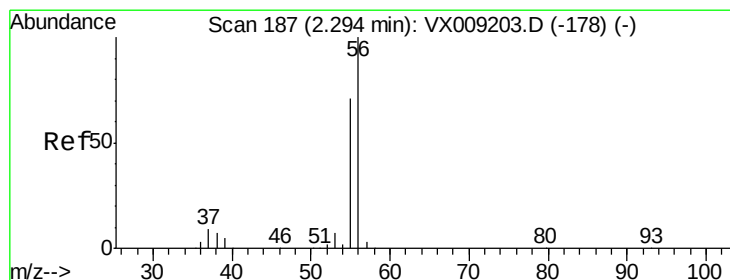
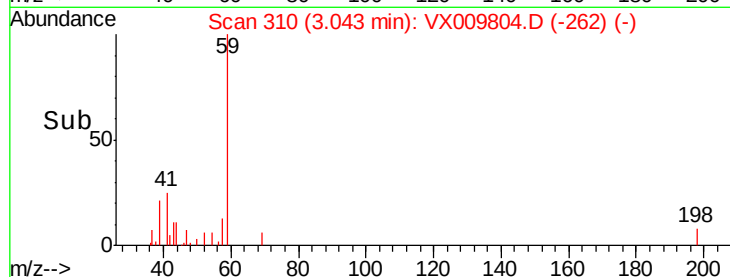
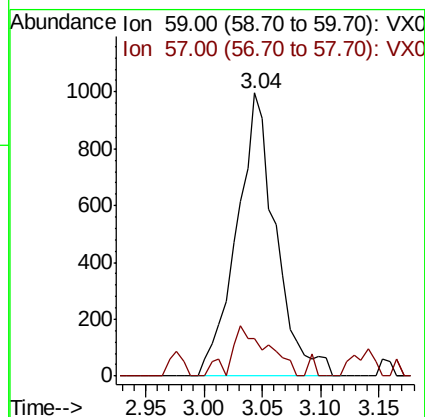
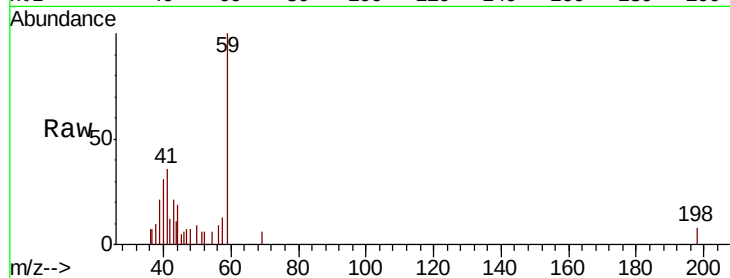
ClientSampled :

Tot Ion: 59 Resp: 2329

Ion Ratio Lower Upper

59 100

57 16.8 8.2 12.2#



#13

Acrolein

Concen: 0.263 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX009804.D

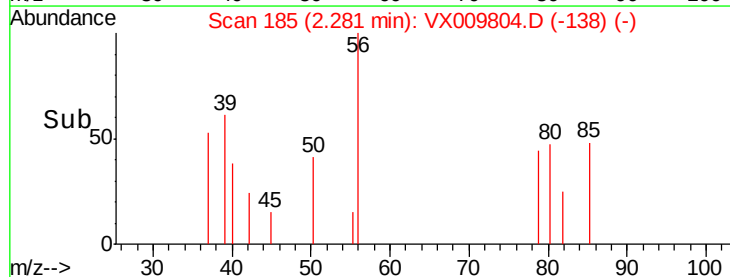
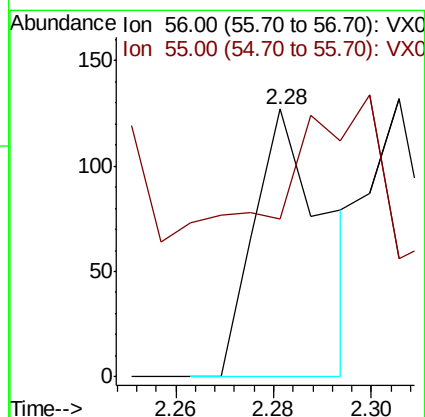
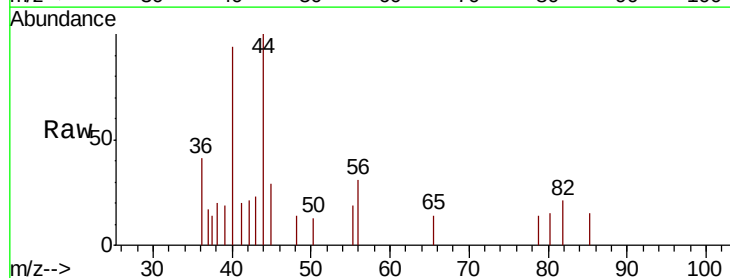
Acq: 22 May 2019 15:10

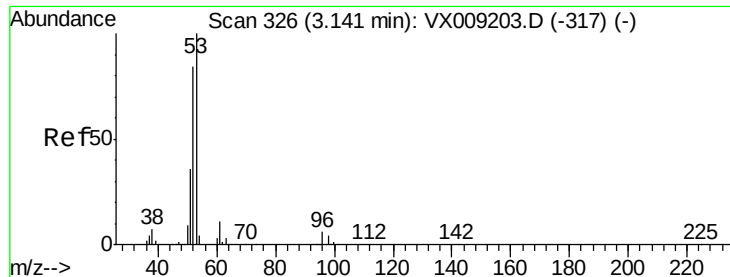
Tgt Ion: 56 Resp: 127

Ion Ratio Lower Upper

56 100

55 0.0 56.6 85.0#





#15

Acrylonitrile

Concen: 0.233 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX009804.D

Acq: 22 May 2019 15:10

Instrument :

MSVOA_X

ClientSampled :

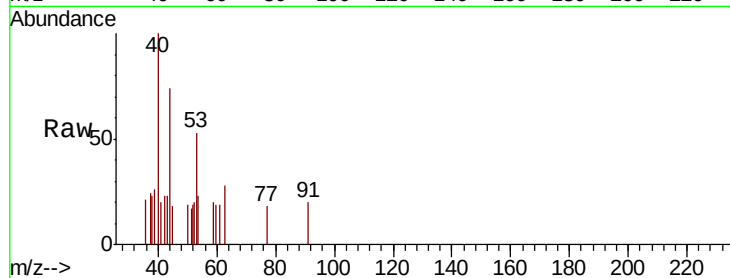
Tot Ion: 53 Resp: 303

Ion Ratio Lower Upper

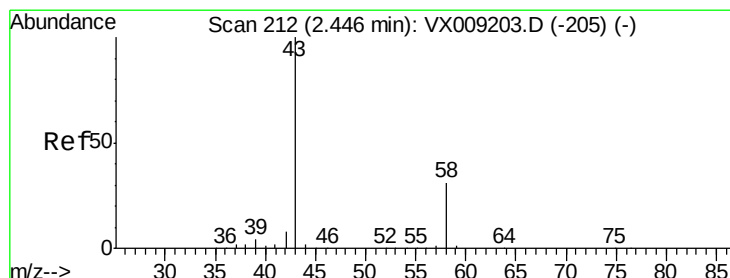
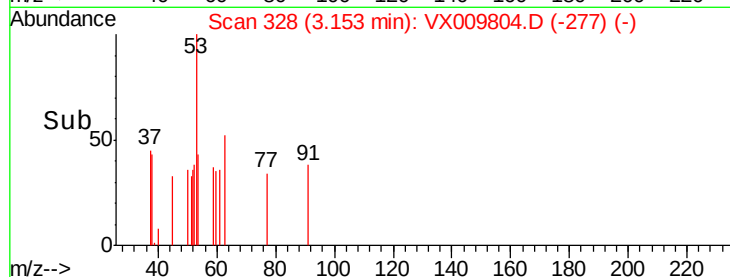
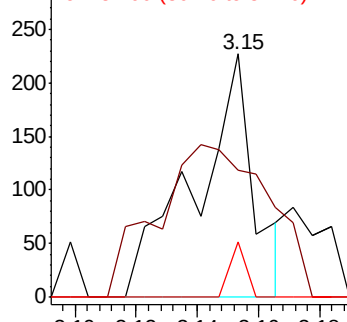
53 100

52 119.5 66.9 100.3#

51 6.3 28.2 42.2#



Abundance Ion 53.00 (52.70 to 53.70): VX0
Ion 52.00 (51.70 to 52.70): VX0
Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 0.772 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009804.D

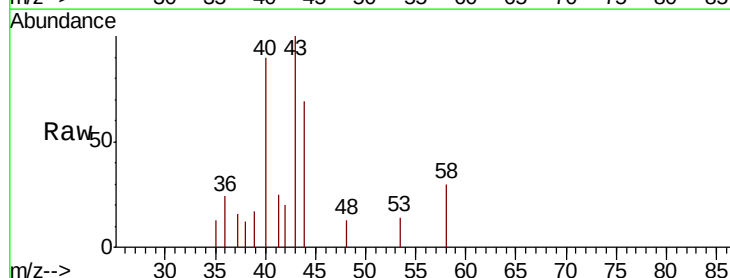
Acq: 22 May 2019 15:10

Tgt Ion: 43 Resp: 954

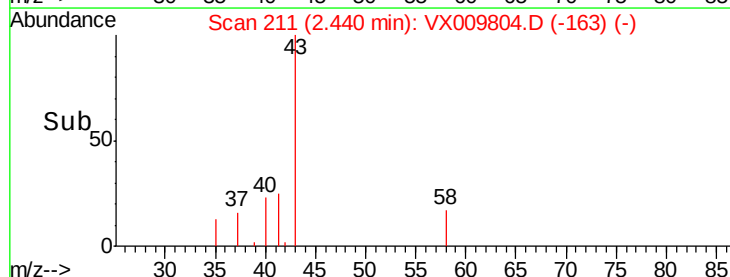
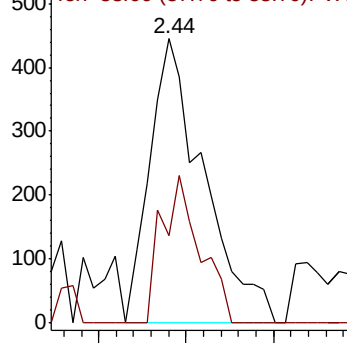
Ion Ratio Lower Upper

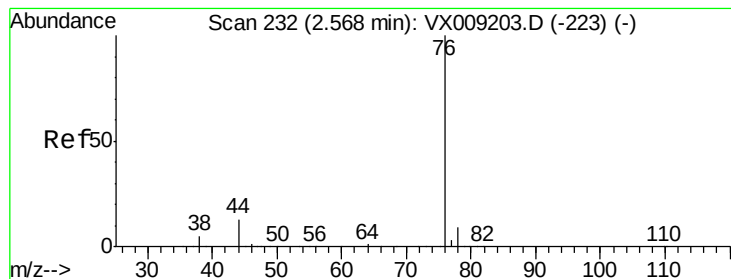
43 100

58 30.3 24.9 37.3



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





#17

Carbon Disulfide

Concen: 0.237 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX009804.D

Acq: 22 May 2019 15:10

Instrument :

MSVOA_X

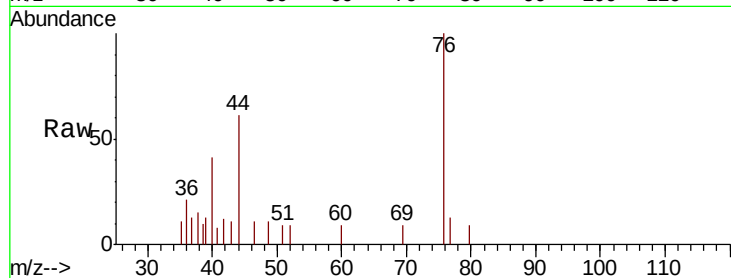
ClientSampleId :

Tot Ion: 76 Resp: 1052

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

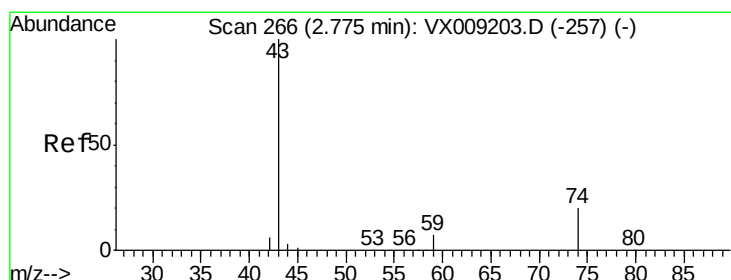
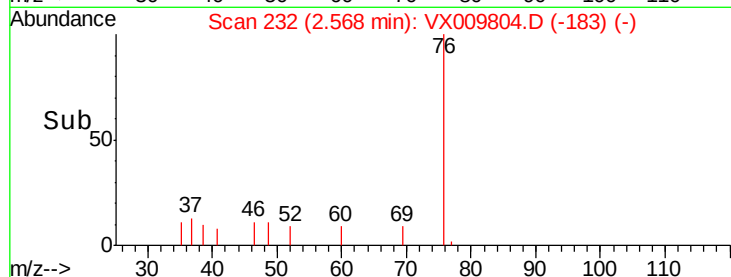
600

400

200

0

Time-->



#18

Methyl Acetate

Concen: 0.698 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX009804.D

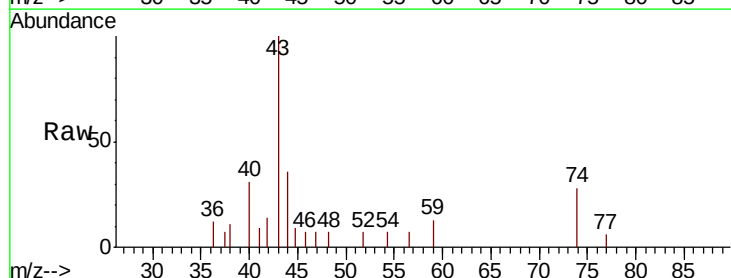
Acq: 22 May 2019 15:10

Tgt Ion: 43 Resp: 2051

Ion Ratio Lower Upper

43 100

74 20.8 16.2 24.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

800

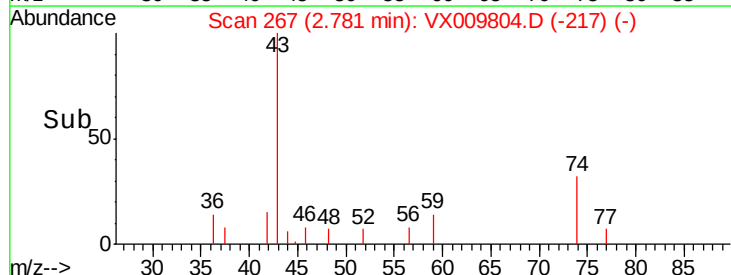
600

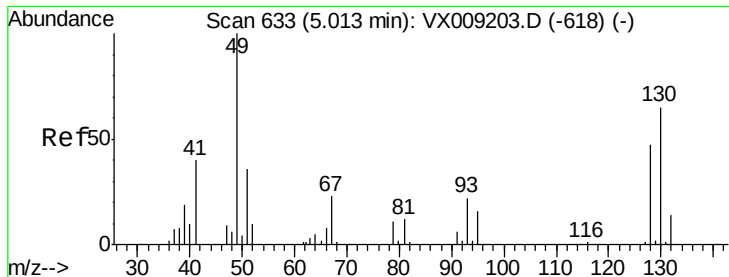
400

200

0

Time-->





#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 634

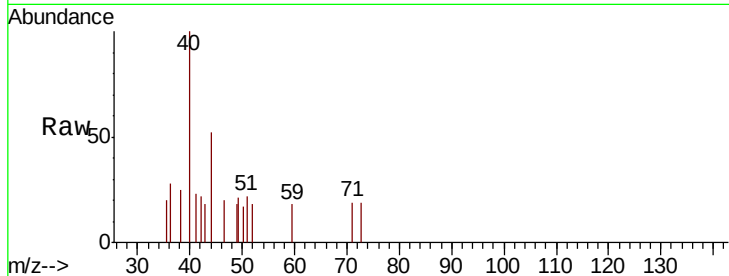
Delta R.T. 0.01 min

Lab File: VX009804.D

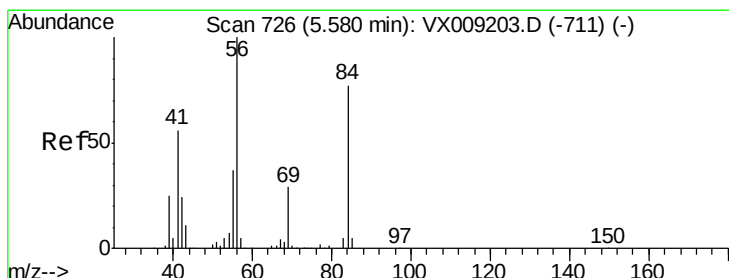
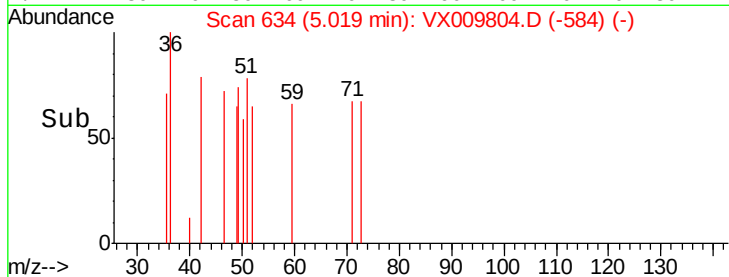
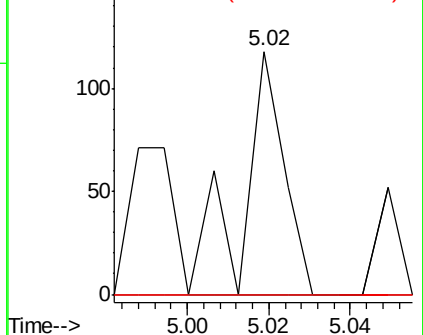
Acq: 22 May 2019 15:10

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 49 Resp: 84
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: 1.189 ug/l

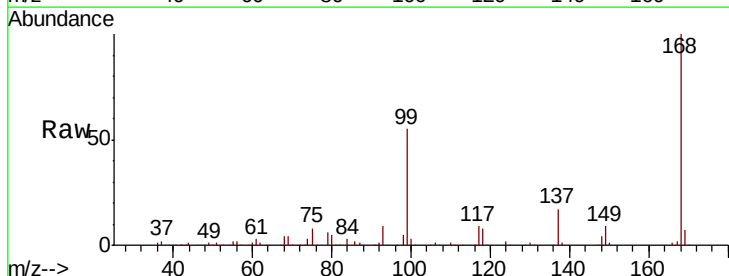
RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

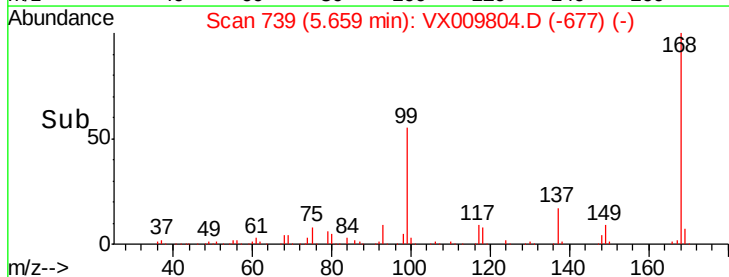
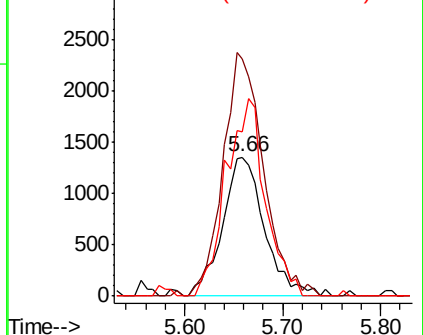
Lab File: VX009804.D

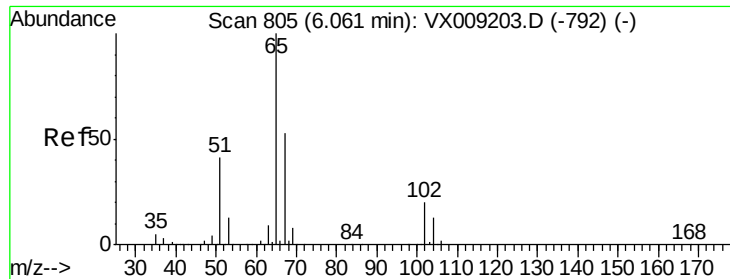
Acq: 22 May 2019 15:10

Tgt Ion: 56 Resp: 4049
Ion Ratio Lower Upper
56 100
69 170.6 23.4 35.0#
84 118.4 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

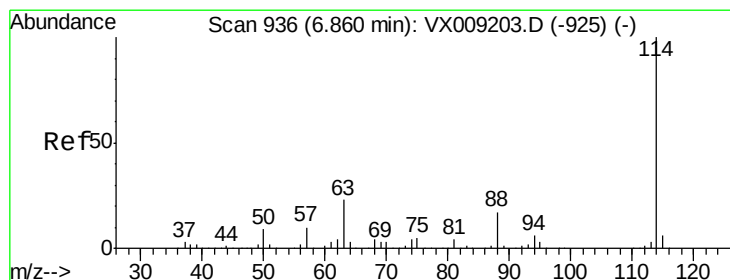
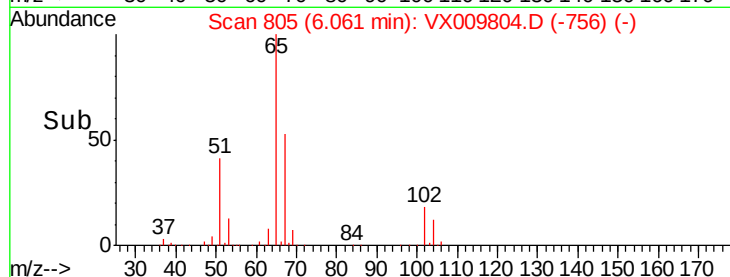
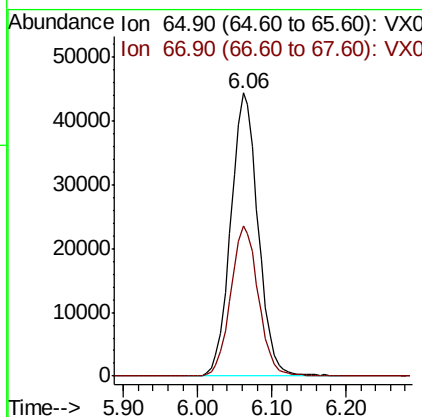
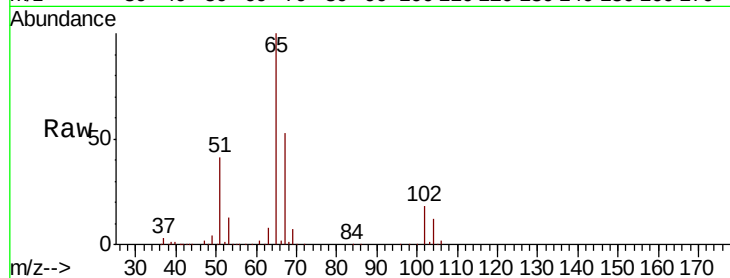




#33
 1,2-Dichloroethane-d4
 Concen: 49.671 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX009804.D
 Acq: 22 May 2019 15:10

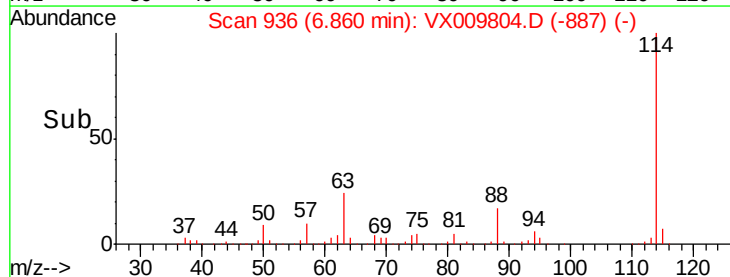
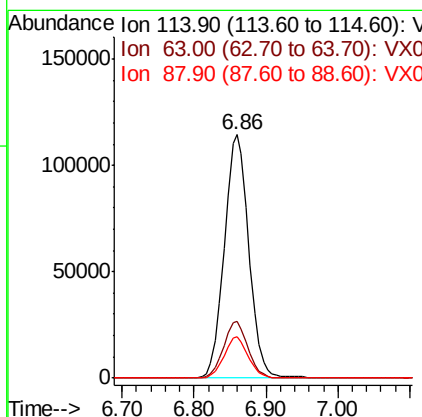
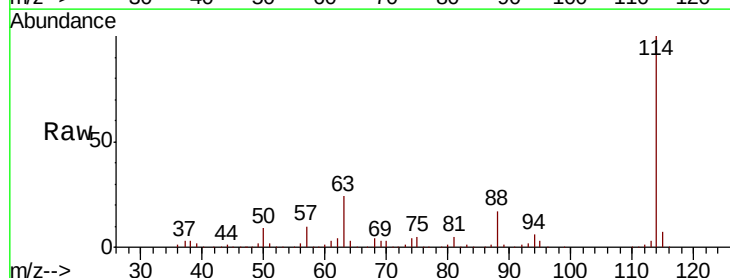
Instrument :
 MSVOA_X
 ClientSampleId :

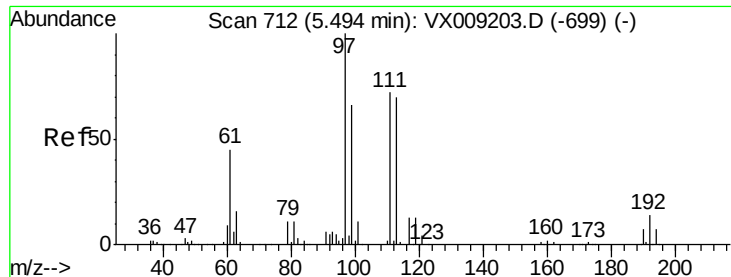
Tot Ion: 65 Resp: 114368
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX009804.D
 Acq: 22 May 2019 15:10

Tgt Ion: 114 Resp: 270954
 Ion Ratio Lower Upper
 114 100
 63 23.5 0.0 45.6
 88 16.8 0.0 33.2





#35

Dibromofluoromethane

Concen: 48.863 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX009804.D

Acq: 22 May 2019 15:10

Instrument :

MSVOA_X

ClientSampleId :

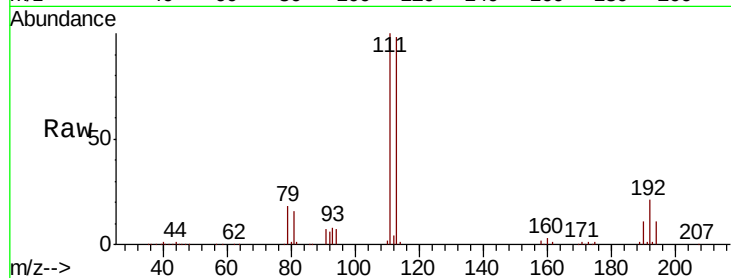
Tot Ion:113 Resp: 83229

Ion Ratio Lower Upper

113 100

111 103.1 82.8 124.2

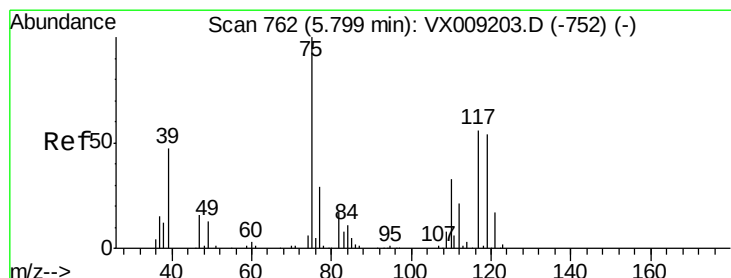
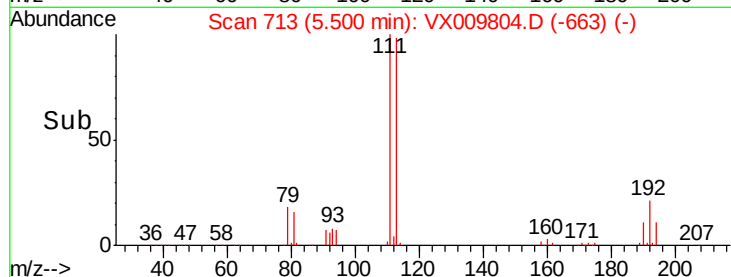
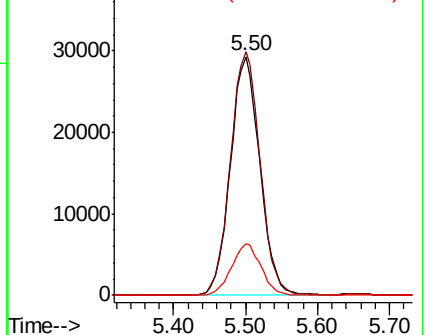
192 21.6 17.0 25.6



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: 5.341 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX009804.D

Acq: 22 May 2019 15:10

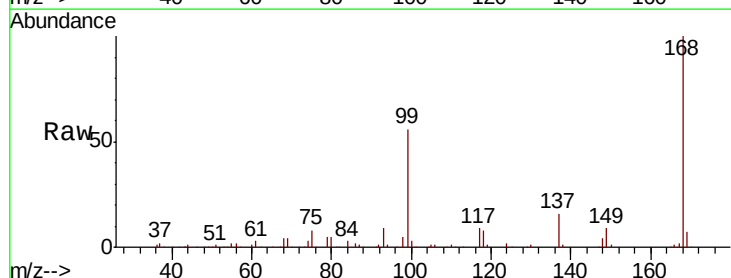
Tgt Ion: 75 Resp: 13449

Ion Ratio Lower Upper

75 100

110 8.9 16.9 50.6#

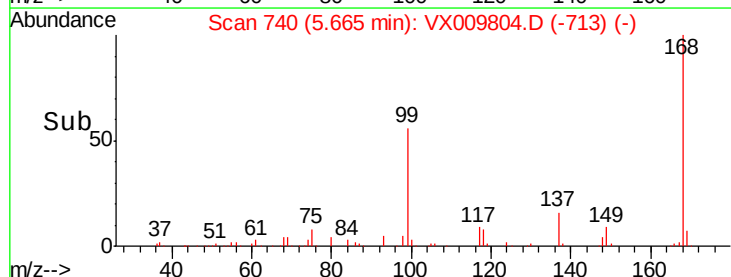
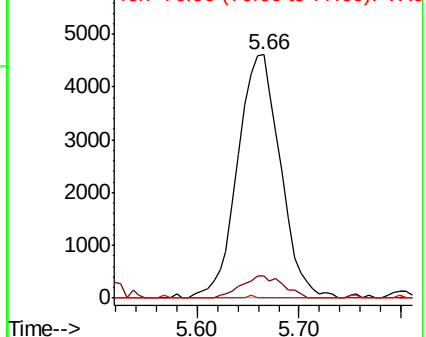
77 0.1 24.8 37.2#

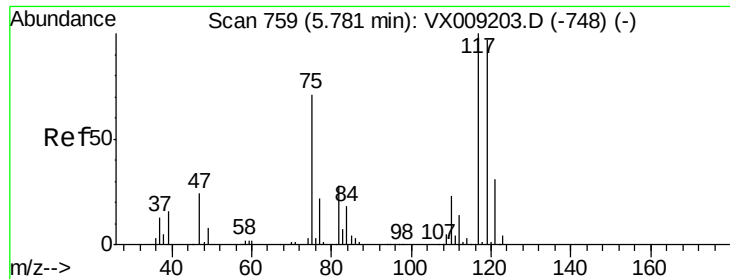


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.972 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009804.D

Acq: 22 May 2019 15:10

Instrument :

MSVOA_X

ClientSampleId :

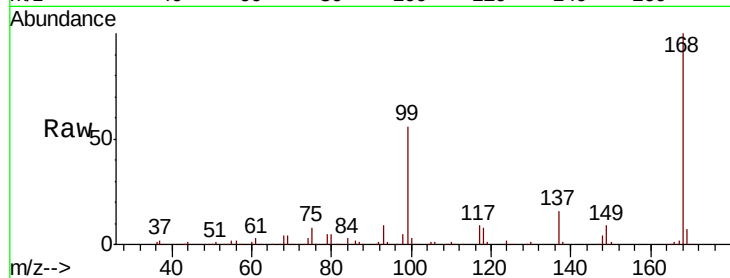
Tot Ion:117 Resp: 15950

Ion Ratio Lower Upper

117 100

119 7.7 77.5 116.3#

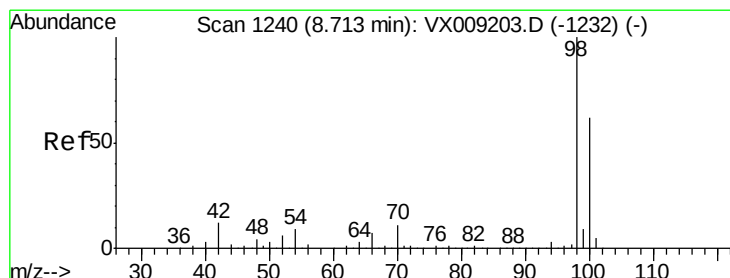
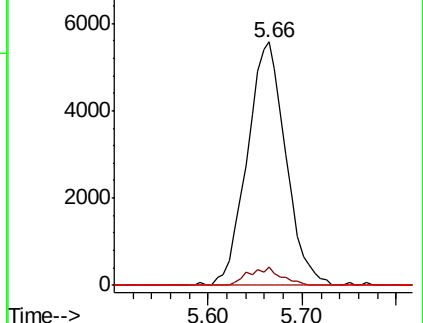
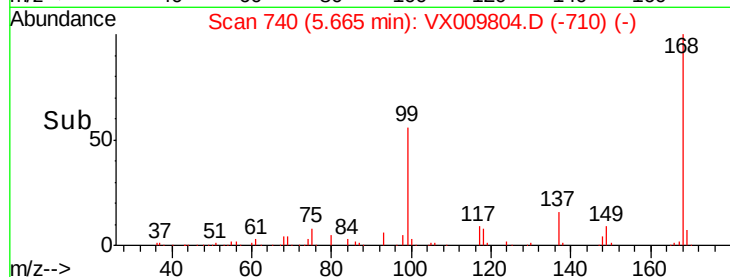
121 0.0 24.7 37.1#



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



#50

Toluene-d8

Concen: 49.524 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009804.D

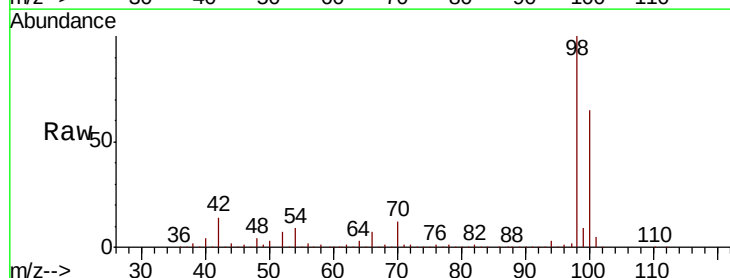
Acq: 22 May 2019 15:10

Tgt Ion: 98 Resp: 340564

Ion Ratio Lower Upper

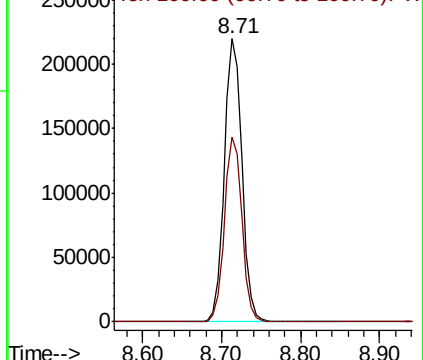
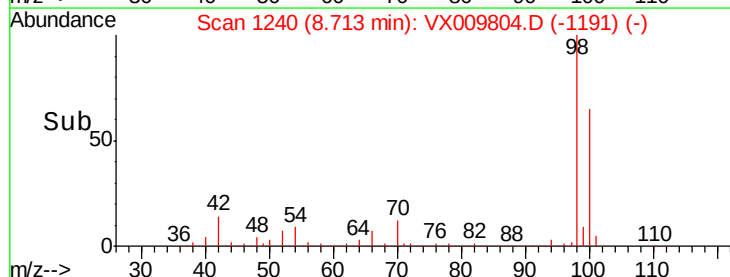
98 100

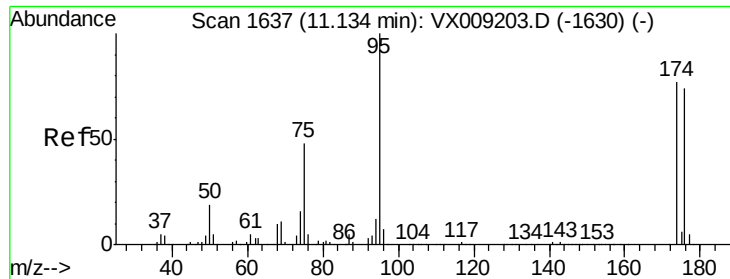
100 64.8 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 44.135 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009804.D

Acq: 22 May 2019 15:10

Instrument :

MSVOA_X

ClientSampled :

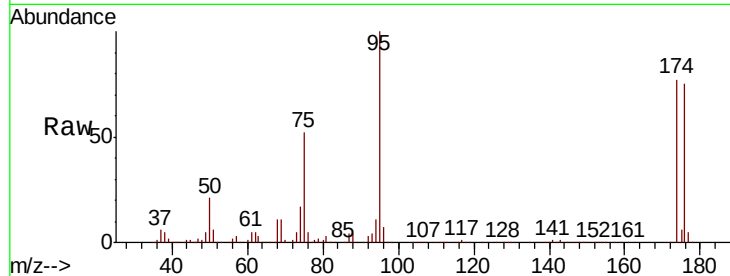
Tot Ion: 95 Resp: 110283

Ion Ratio Lower Upper

95 100

174 82.8 0.0 161.6

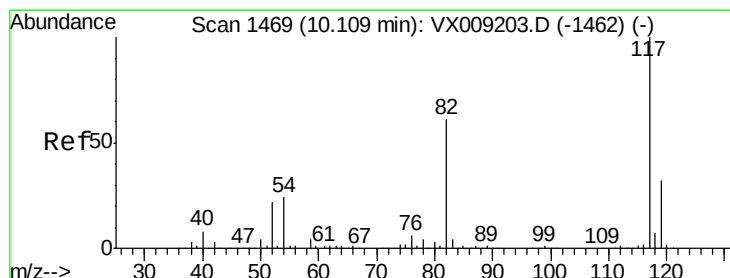
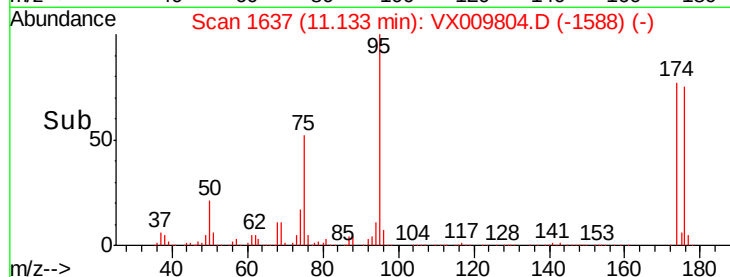
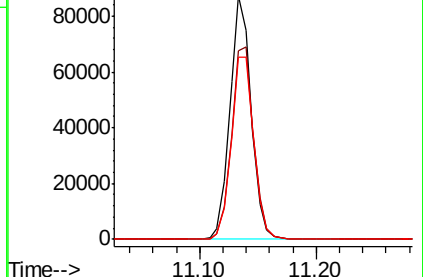
176 79.9 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009203.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX009203.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX009203.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX009804.D

Acq: 22 May 2019 15:10

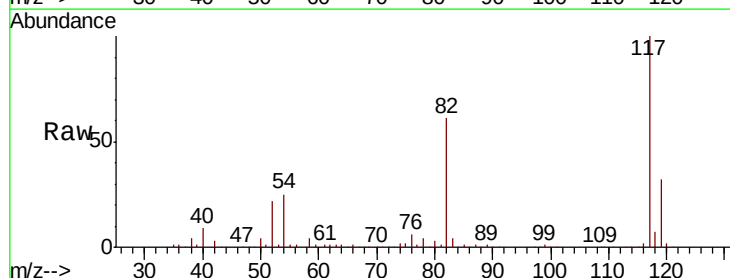
Tgt Ion: 117 Resp: 237514

Ion Ratio Lower Upper

117 100

82 61.0 48.8 73.2

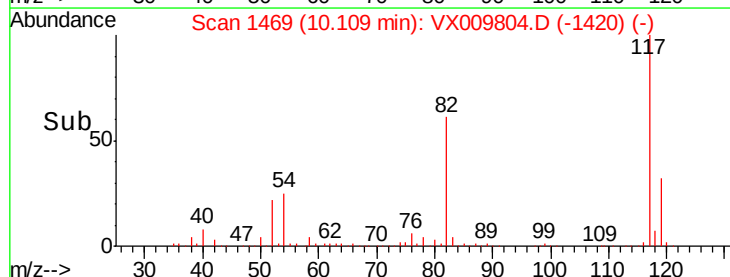
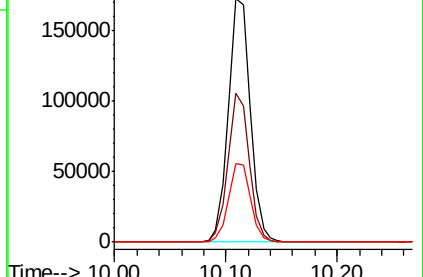
119 32.1 25.8 38.6

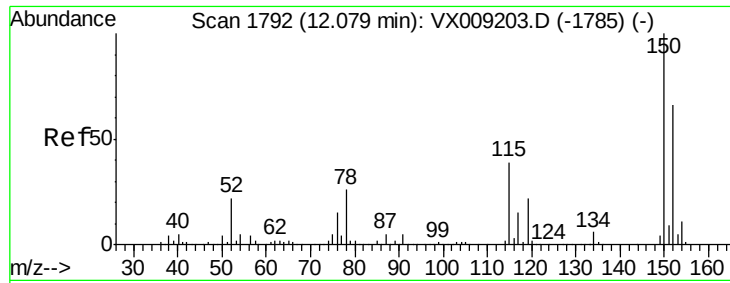


Abundance Ion 116.90 (116.60 to 117.60): VX009203.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX009203.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX009203.D (-1462) (-)



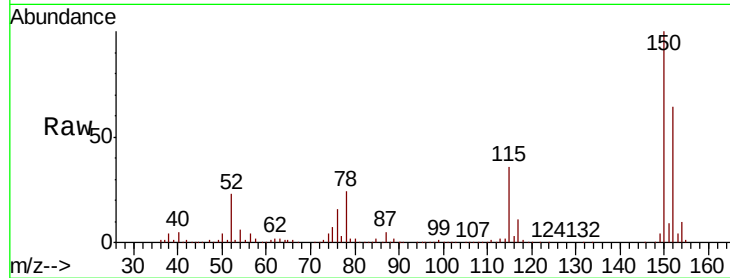


#72

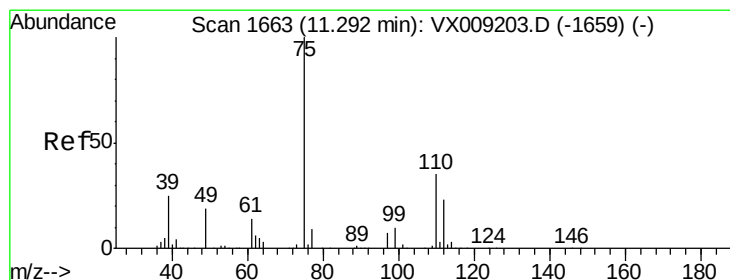
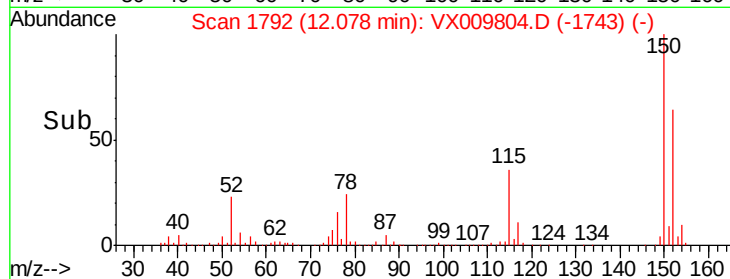
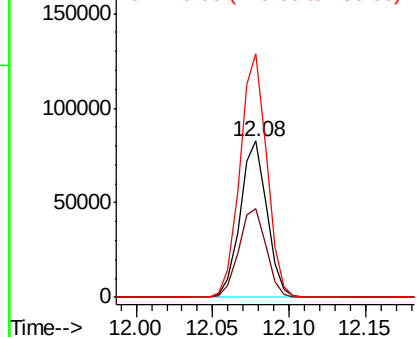
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX009804.D
Acq: 22 May 2019 15:10

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:152 Resp: 100049
Ion Ratio Lower Upper
152 100
115 58.1 41.2 123.6
150 156.1 0.0 346.4



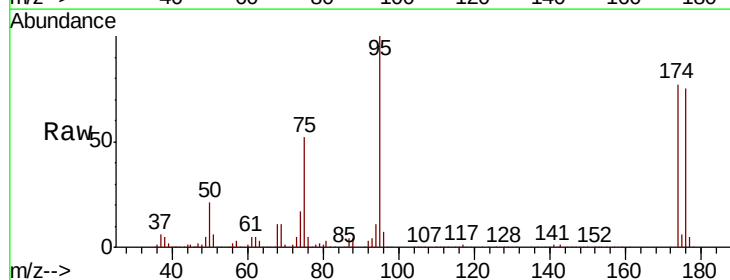
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



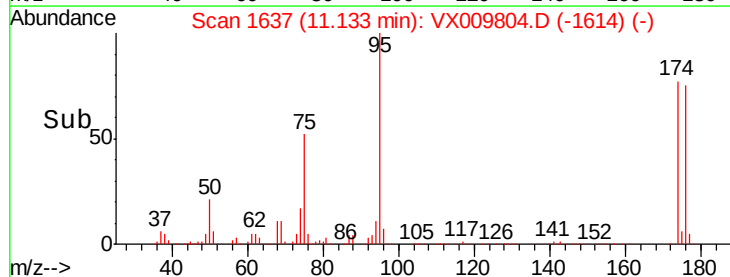
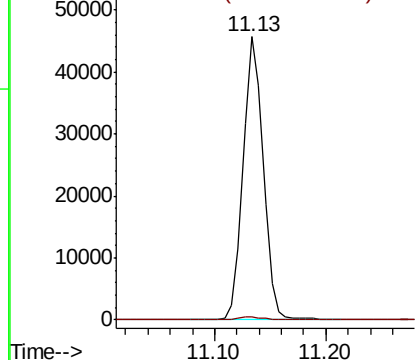
#76

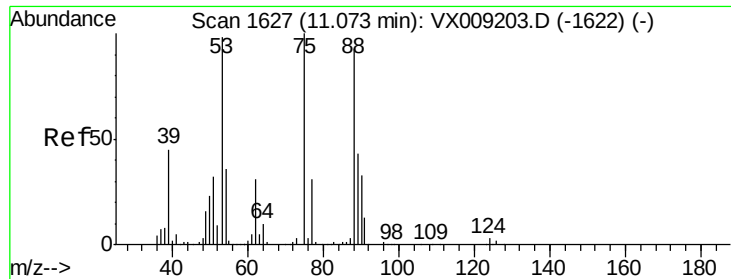
1,2,3-Trichloropropane
Concen: 24.717 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX009804.D
Acq: 22 May 2019 15:10

Tgt Ion: 75 Resp: 57363
Ion Ratio Lower Upper
75 100
77 1.1 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: 63.242 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009804.D

Acq: 22 May 2019 15:10

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 57363

Ion Ratio Lower Upper

75 100

53 0.2 79.0 118.6#

89 0.0 34.7 52.1#

