

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052119\
 Data File : VX009786.D
 Acq On : 22 May 2019 07:20
 Operator : JC/SP
 Sample : K2953-15
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-12B_R2

Quant Time: May 22 09:04:11 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	176279	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	280623	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	251506	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	109600	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	120435	50.05	ug/l	0.00
Spiked Amount			Recovery	=	100.10%	
35) Dibromofluoromethane	5.50	113	87130	49.39	ug/l	0.00
Spiked Amount			Recovery	=	98.78%	
50) Toluene-d8	8.71	98	356698	50.08	ug/l	0.00
Spiked Amount			Recovery	=	100.16%	
62) 4-Bromofluorobenzene	11.13	95	121448	46.93	ug/l	0.00
Spiked Amount			Recovery	=	93.86%	

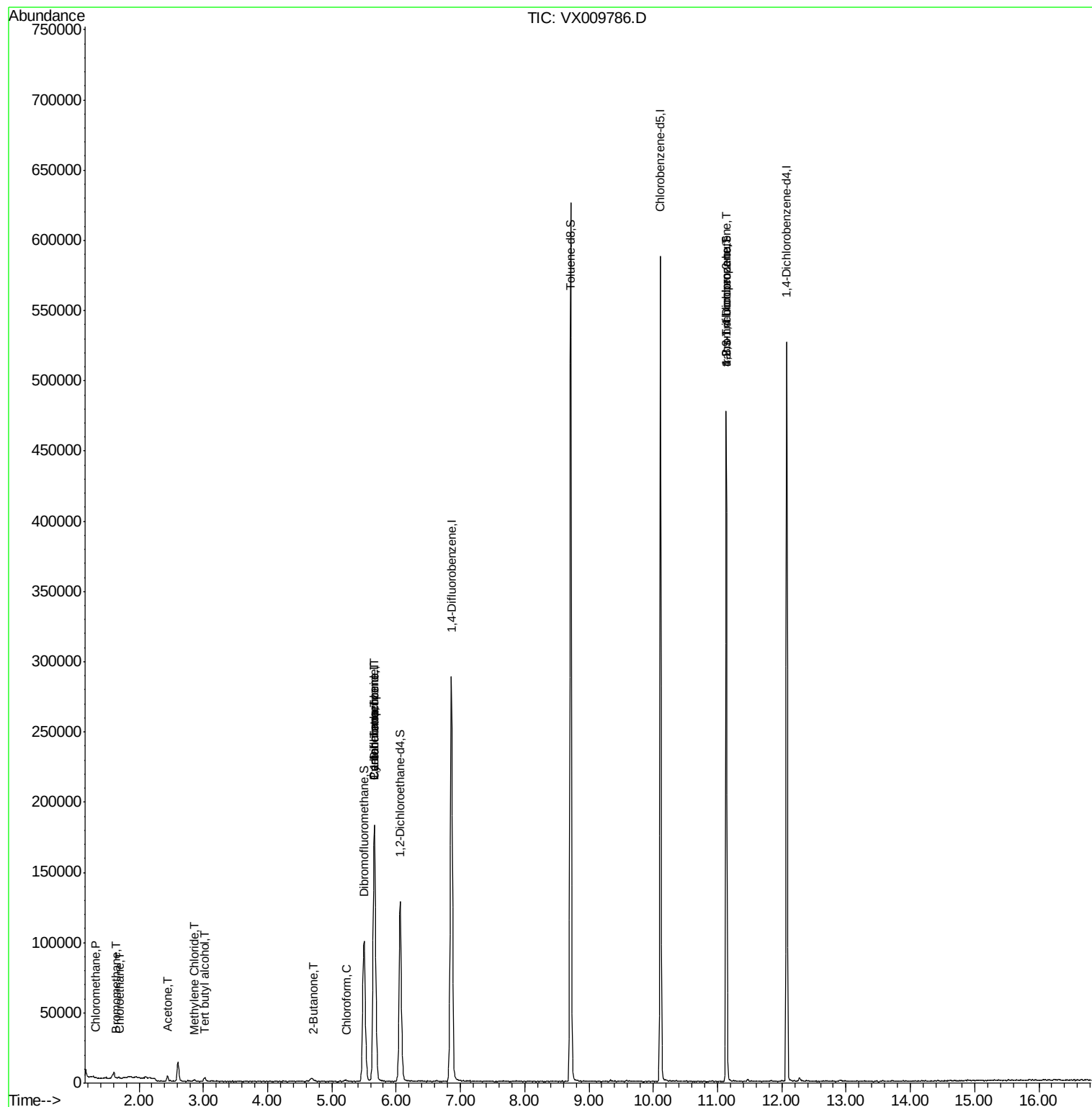
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	735	0.331	ug/l	99
5) Bromomethane	1.64	94	325	0.250	ug/l #	4
6) Chloroethane	1.70	64	338	0.243	ug/l #	43
11) Tert butyl alcohol	3.03	59	1841	3.305	ug/l #	80
16) Acetone	2.44	43	4171	3.228	ug/l #	87
20) Methylene Chloride	2.85	84	496	0.237	ug/l #	50
25) 2-Butanone	4.71	43	577	0.287	ug/l #	53
28) Bromochloromethane	5.02	49	41	Below Cal	#	20
30) Chloroform	5.22	83	1070	0.309	ug/l	90
31) Cyclohexane	5.66	56	3946	1.109	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	13945	5.347	ug/l #	50
38) Carbon Tetrachloride	5.66	117	16608	7.009	ug/l #	16
76) 1,2,3-Trichloropropane	11.13	75	62785	24.696	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	62785	63.188	ug/l #	10

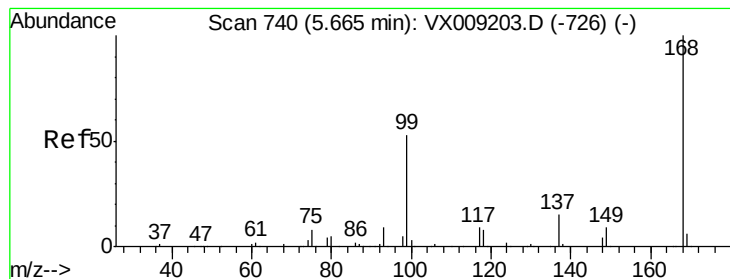
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX009786.D

Acq: 22 May 2019 07:20

Instrument :

MSVOA_X

ClientSampleId :

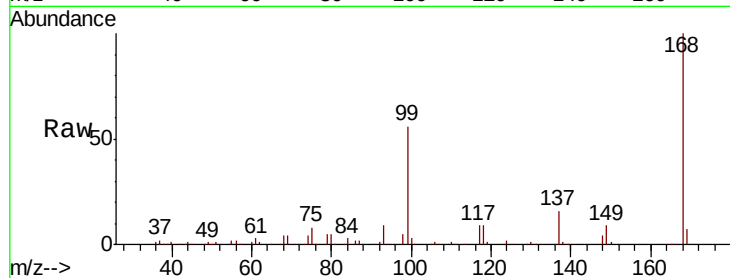
MW-12B_R2

Tot Ion:168 Resp: 176279

Ion Ratio Lower Upper

168 100

99 55.5 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

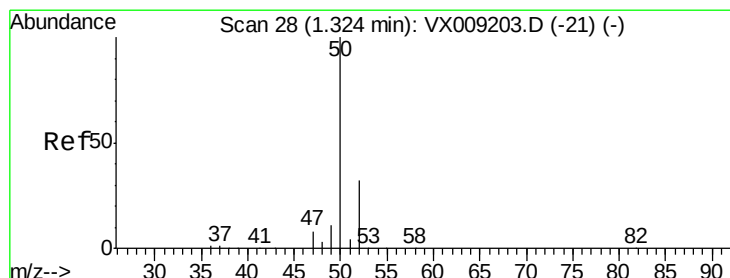
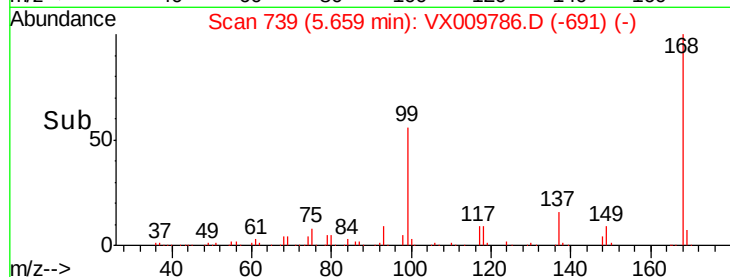
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.331 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX009786.D

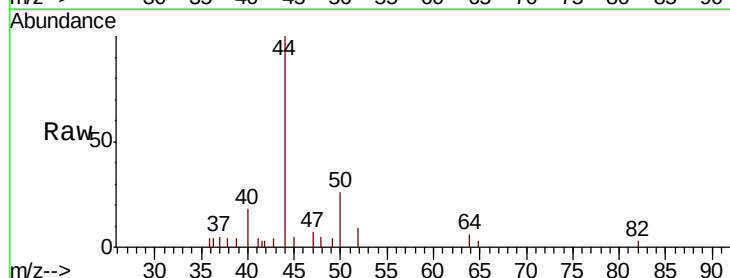
Acq: 22 May 2019 07:20

Tgt Ion: 50 Resp: 735

Ion Ratio Lower Upper

50 100

52 33.0 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

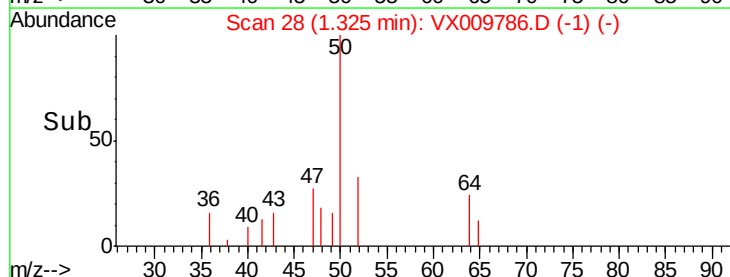
300

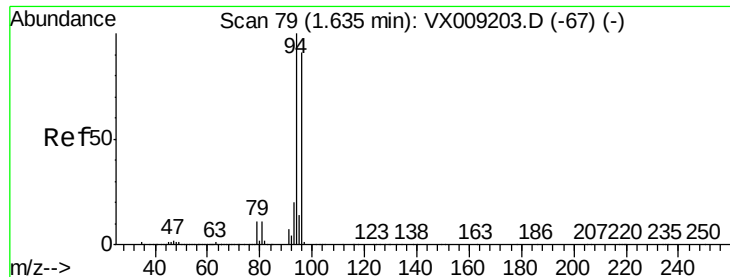
200

100

0

Time-->





#5

Bromomethane

Concen: 0.250 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX009786.D

Acq: 22 May 2019 07:20

Instrument :

MSVOA_X

ClientSampled :

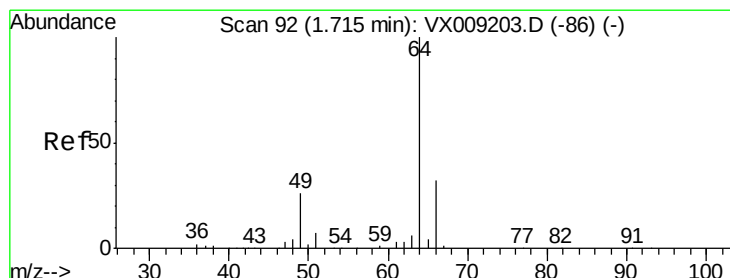
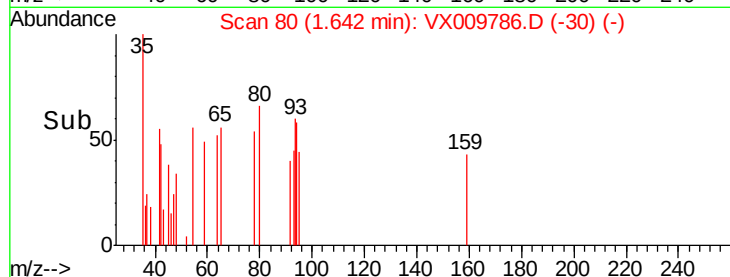
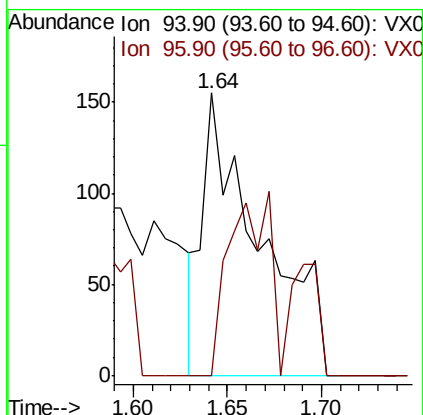
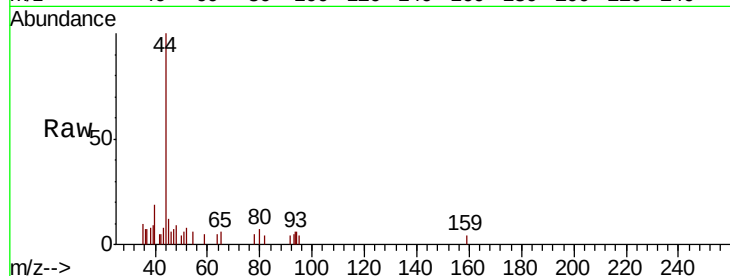
MW-12B_R2

Tot Ion: 94 Resp: 325

Ion Ratio Lower Upper

94 100

96 0.0 73.0 109.6#



#6

Chloroethane

Concen: 0.243 ug/l

RT: 1.70 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX009786.D

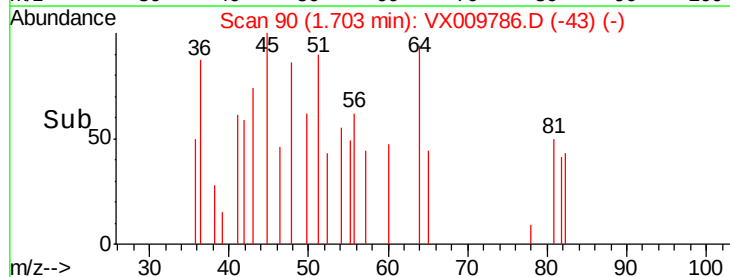
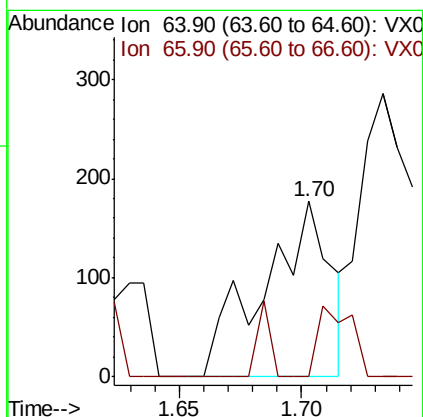
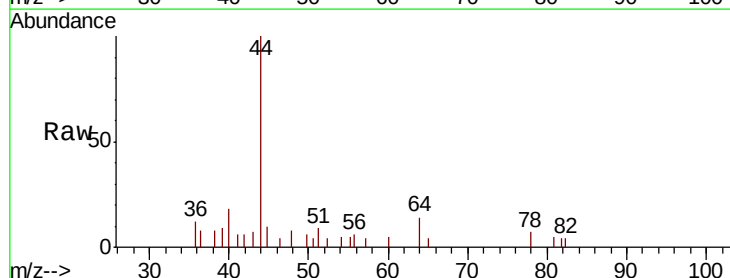
Acq: 22 May 2019 07:20

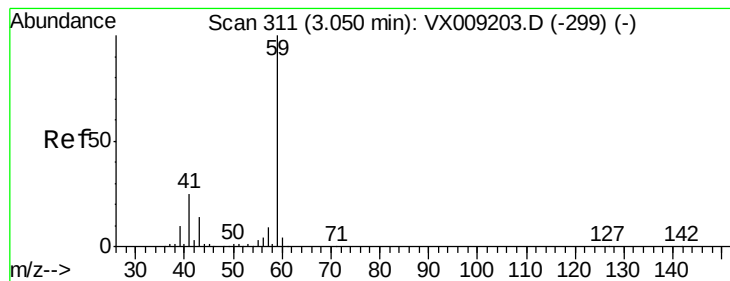
Tgt Ion: 64 Resp: 338

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#





#11

Tert butyl alcohol

Concen: 3.305 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.02 min

Lab File: VX009786.D

Acq: 22 May 2019 07:20

Instrument :

MSVOA_X

ClientSampleId :

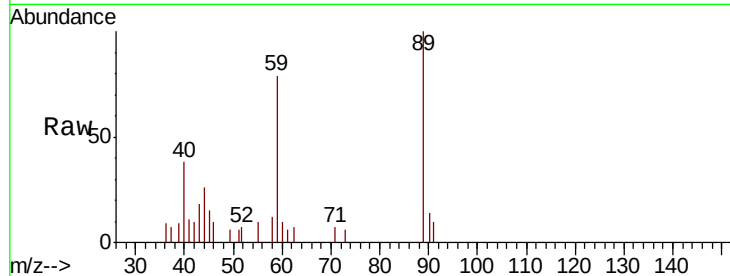
MW-12B_R2

Tot Ion: 59 Resp: 1841

Ion Ratio Lower Upper

59 100

57 2.7 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.03

600

400

200

0

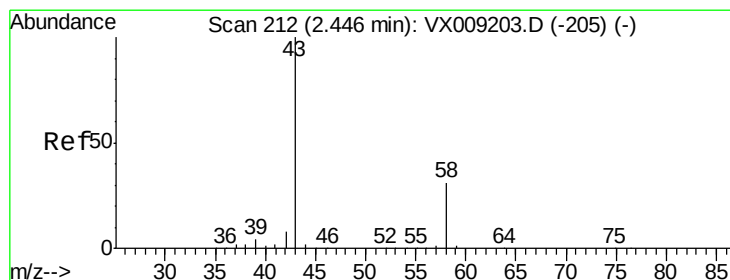
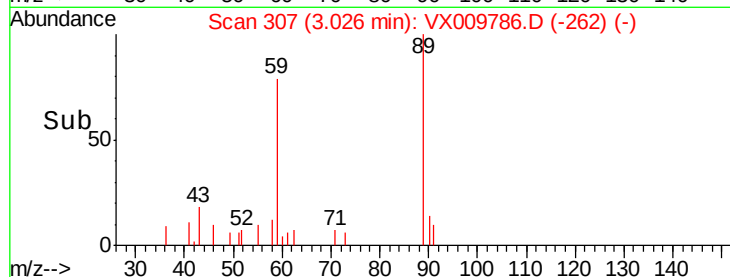
Time-->

2.95

3.00

3.05

3.10



#16

Acetone

Concen: 3.228 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009786.D

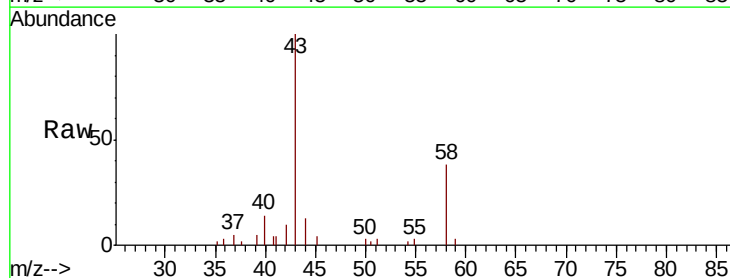
Acq: 22 May 2019 07:20

Tgt Ion: 43 Resp: 4171

Ion Ratio Lower Upper

43 100

58 38.3 24.9 37.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

2500

2000

1500

1000

500

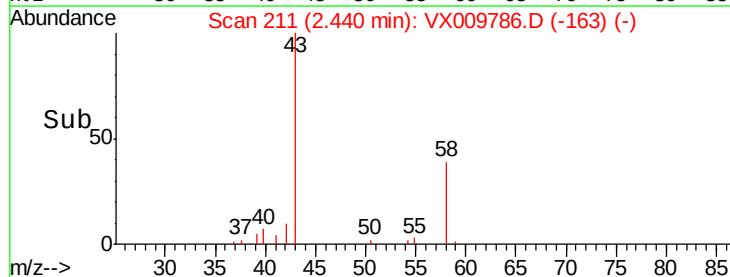
0

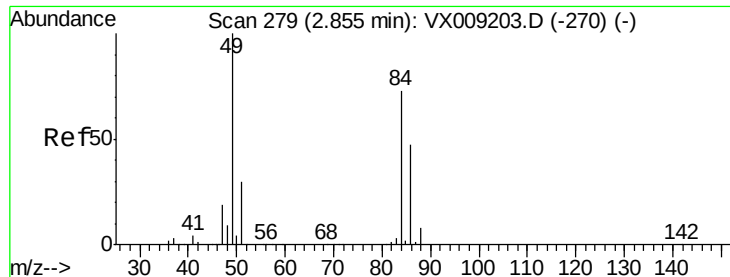
Time-->

2.40

2.45

2.50





#20

Methvlene Chloride

Concen: 0.237 ug/l

RT: 2.85 min Scan# 278

Delta R.T. -0.01 min

Lab File: VX009786.D

Acq: 22 May 2019 07:20

Instrument :

MSVOA_X

ClientSampleId :

MW-12B_R2

Tot Ion: 84 Resp: 496

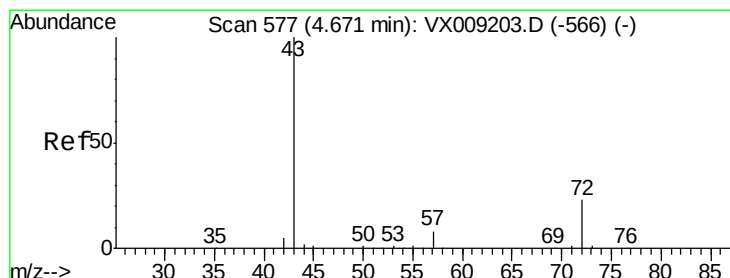
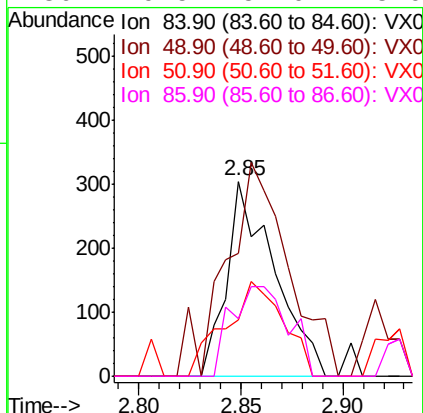
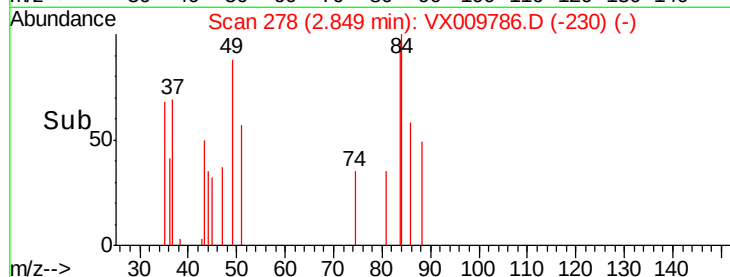
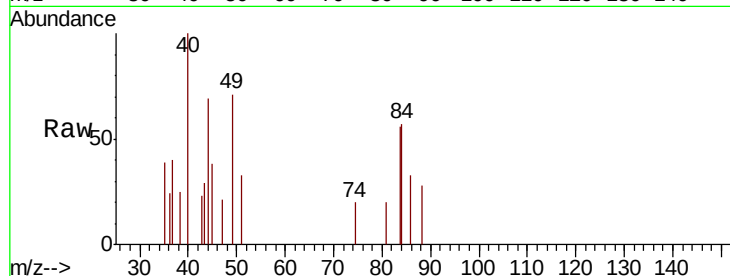
Ion Ratio Lower Upper

84 100

49 63.0 109.9 164.9#

51 29.2 32.7 49.1#

86 29.5 52.0 78.0#



#25

2-Butanone

Concen: 0.287 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.04 min

Lab File: VX009786.D

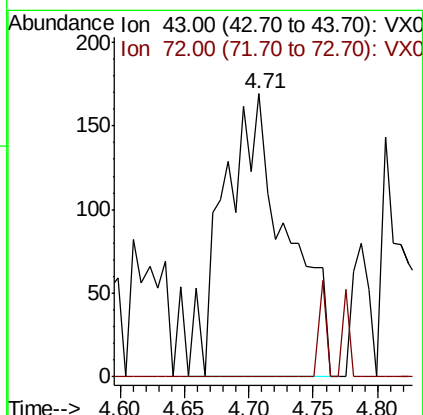
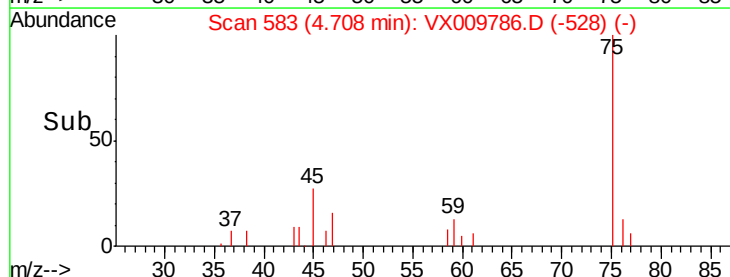
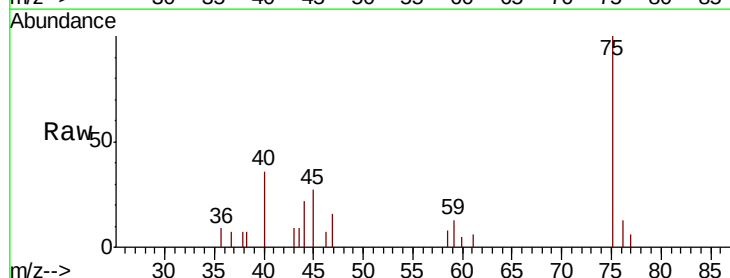
Acq: 22 May 2019 07:20

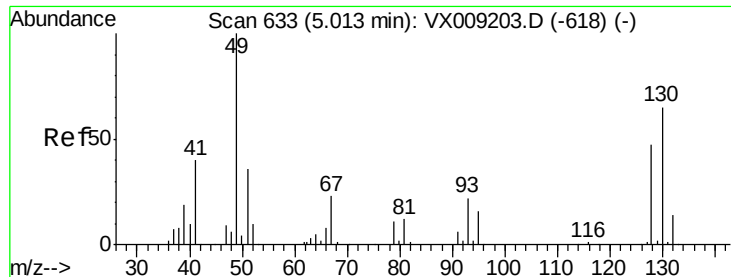
Tgt Ion: 43 Resp: 577

Ion Ratio Lower Upper

43 100

72 0.0 18.2 27.2#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 634

Delta R.T. 0.01 min

Lab File: VX009786.D

Acq: 22 May 2019 07:20

Instrument :

MSVOA_X

ClientSampleId :

MW-12B_R2

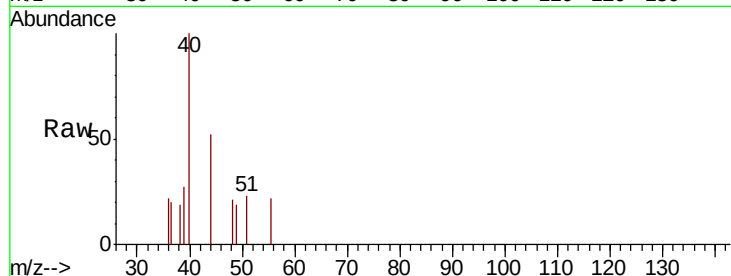
Tot Ion: 49 Resp: 41

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

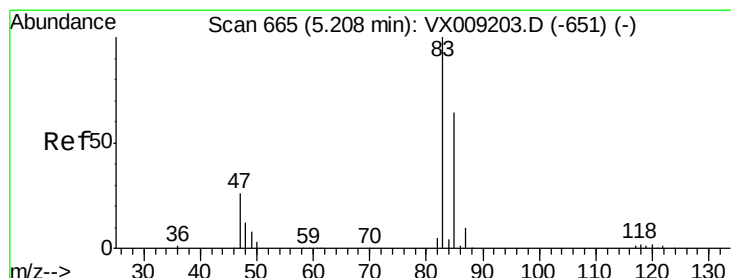
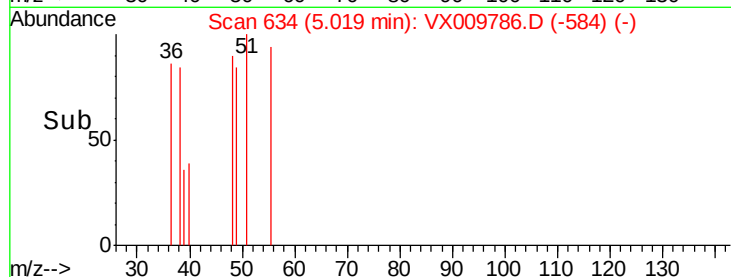
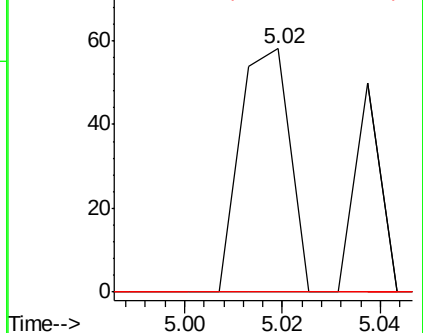
130 0.0 51.2 76.8#



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



#30

Chloroform

Concen: 0.309 ug/l

RT: 5.22 min Scan# 667

Delta R.T. 0.01 min

Lab File: VX009786.D

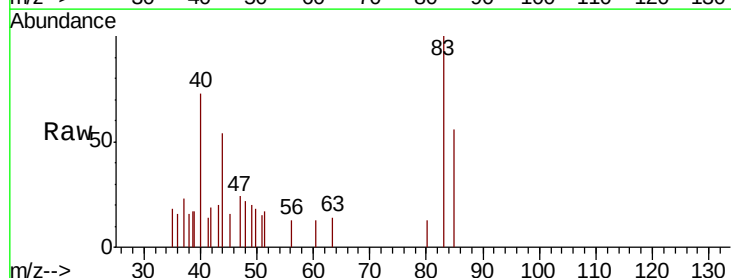
Acq: 22 May 2019 07:20

Tgt Ion: 83 Resp: 1070

Ion Ratio Lower Upper

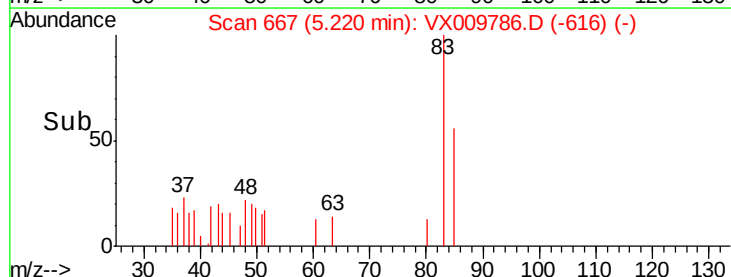
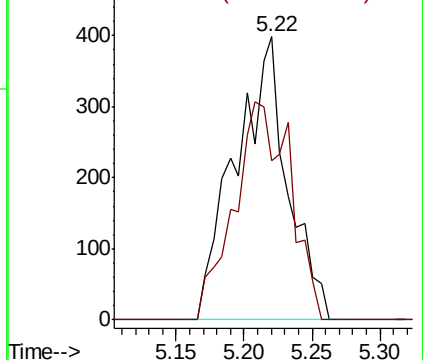
83 100

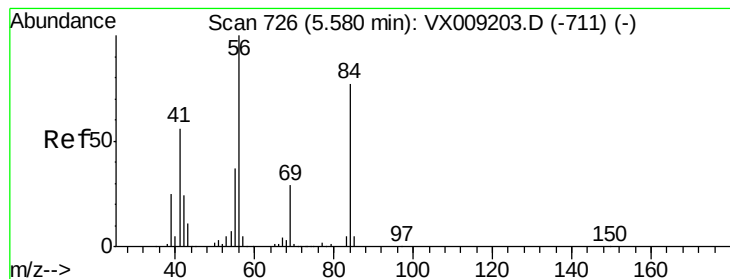
85 56.3 51.5 77.3



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0





#31

Cyclohexane

Concen: 1.109 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009786.D

Acq: 22 May 2019 07:20

Instrument :

MSVOA_X

ClientSampleId :

MW-12B_R2

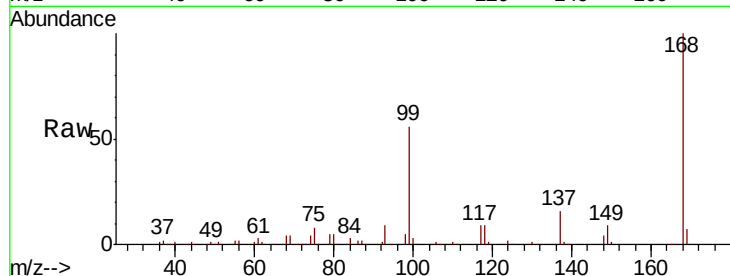
Tot Ion: 56 Resp: 3946

Ion Ratio Lower Upper

56 100

69 169.9 23.4 35.0#

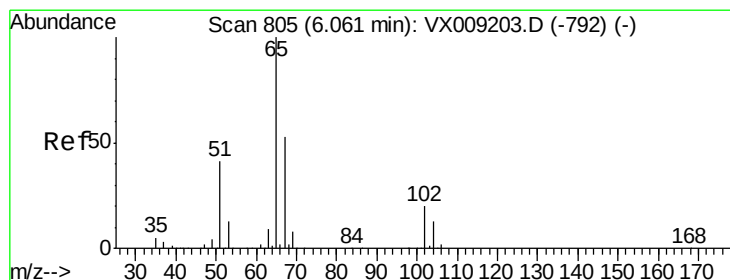
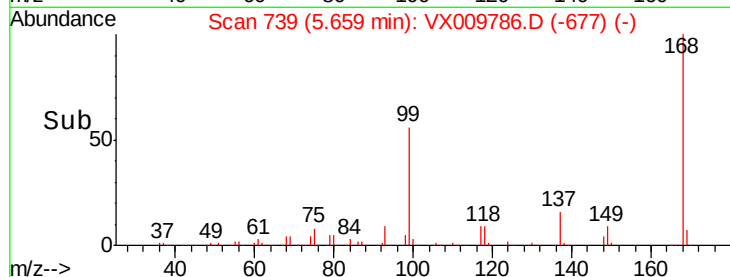
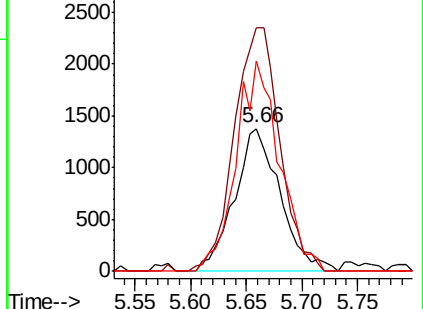
84 147.5 61.9 92.9#



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: 50.047 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009786.D

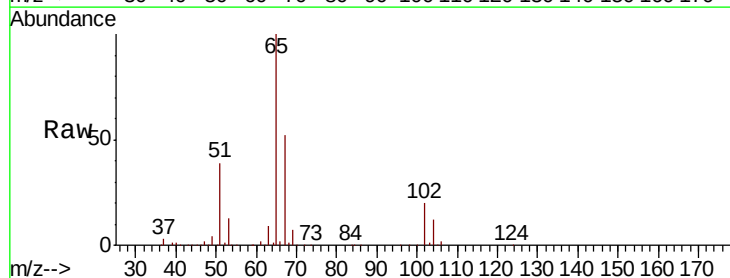
Acq: 22 May 2019 07:20

Tgt Ion: 65 Resp: 120435

Ion Ratio Lower Upper

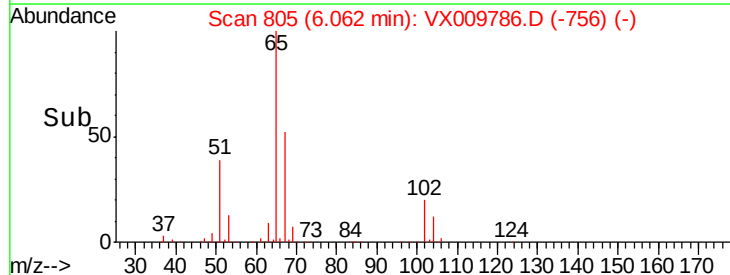
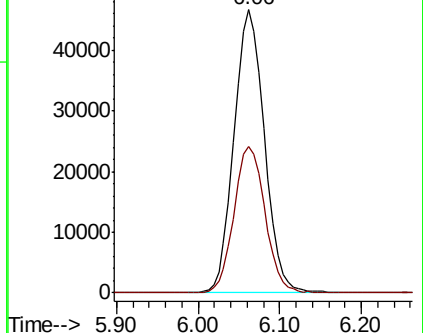
65 100

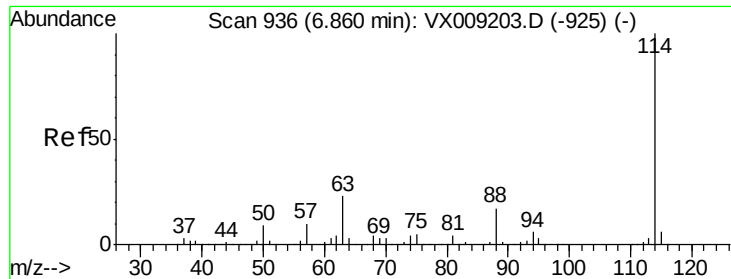
67 53.1 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

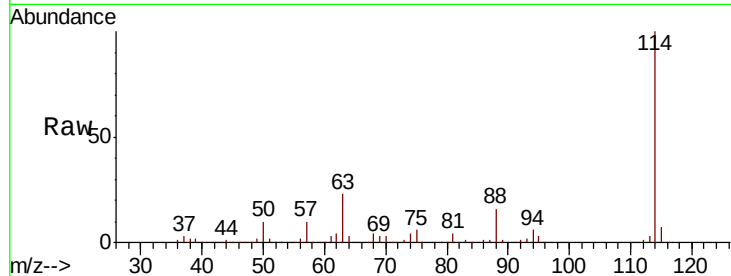




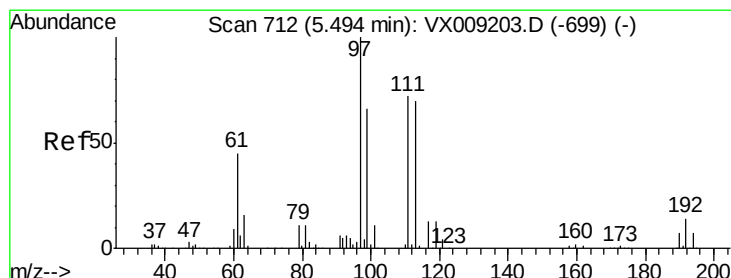
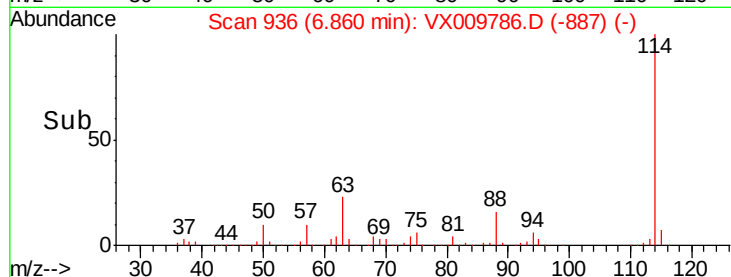
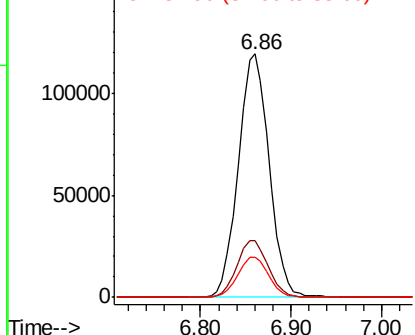
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009786.D
 Acq: 22 May 2019 07:20

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-12B_R2

Tot Ion:114 Resp: 280623
 Ion Ratio Lower Upper
 114 100
 63 23.3 0.0 45.6
 88 16.2 0.0 33.2

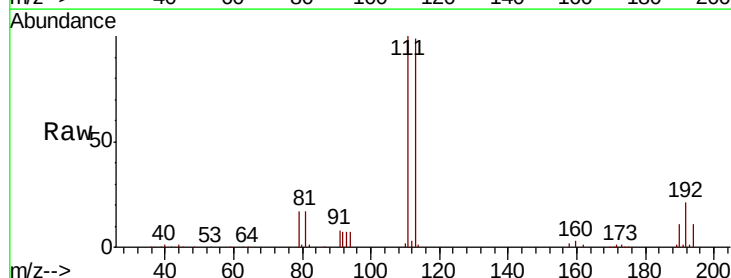


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

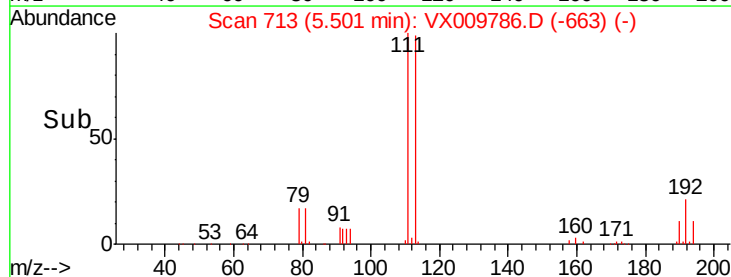
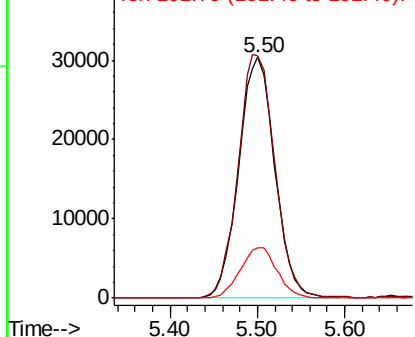


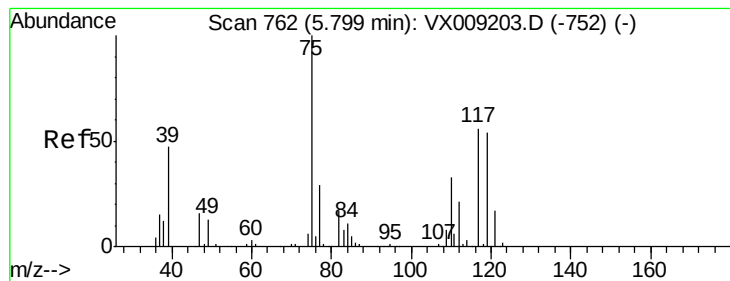
#35
 Dibromofluoromethane
 Concen: 49.390 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009786.D
 Acq: 22 May 2019 07:20

Tgt Ion:113 Resp: 87130
 Ion Ratio Lower Upper
 113 100
 111 103.0 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: 5.347 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009786.D

Acq: 22 May 2019 07:20

Instrument :

MSVOA_X

ClientSampleId :

MW-12B_R2

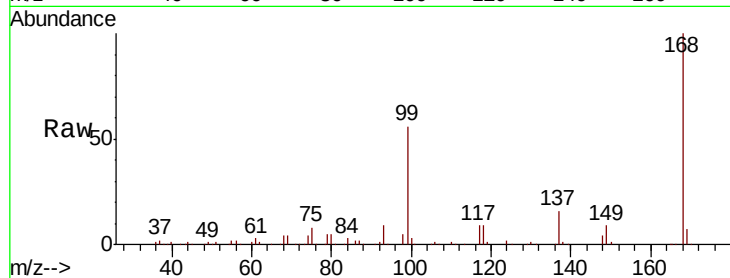
Tot Ion: 75 Resp: 13945

Ion Ratio Lower Upper

75 100

110 8.7 16.9 50.6#

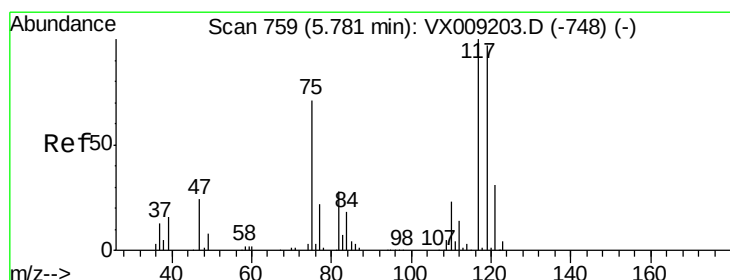
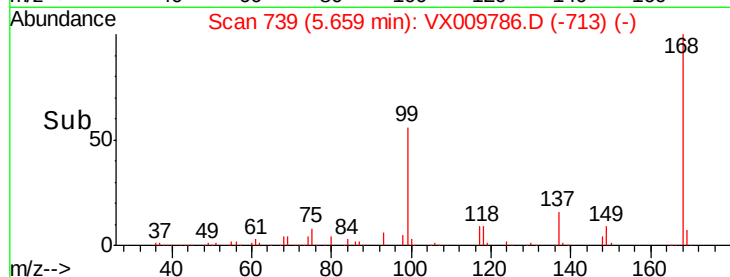
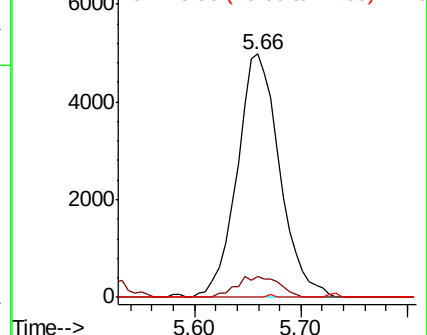
77 0.2 24.8 37.2#



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: 7.009 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009786.D

Acq: 22 May 2019 07:20

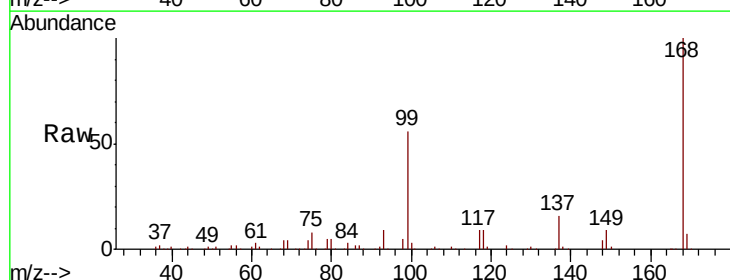
Tgt Ion:117 Resp: 16608

Ion Ratio Lower Upper

117 100

119 6.0 77.5 116.3#

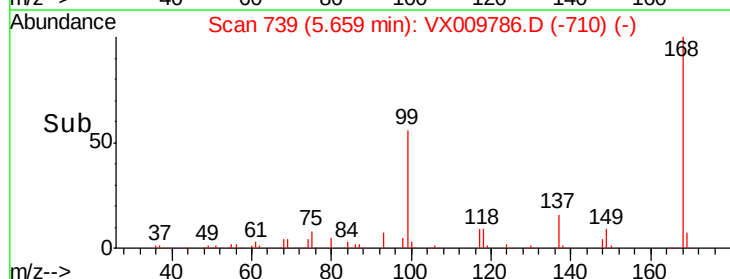
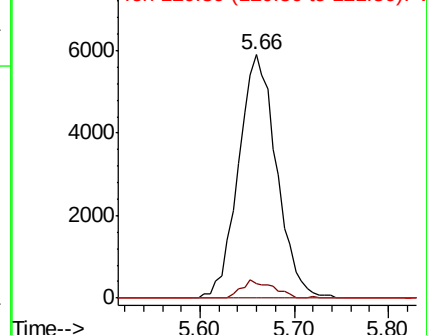
121 0.0 24.7 37.1#

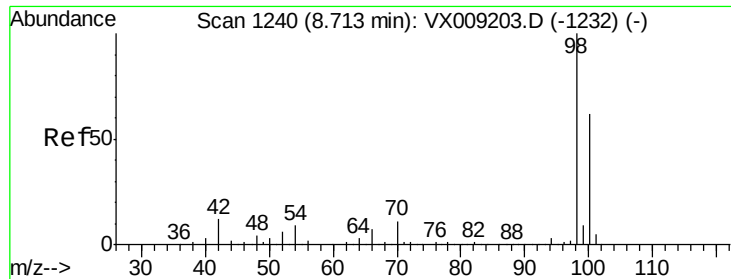


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 50.083 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009786.D

Acq: 22 May 2019 07:20

Instrument :

MSVOA_X

ClientSampled :

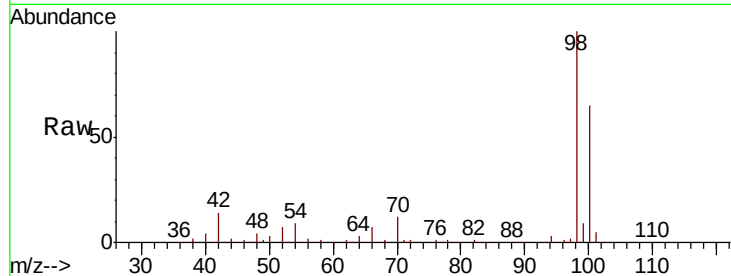
MW-12B_R2

Tot Ion: 98 Resp: 356698

Ion Ratio Lower Upper

98 100

100 64.2 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

250000

200000

150000

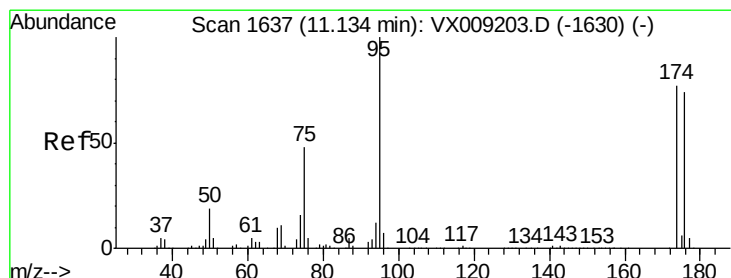
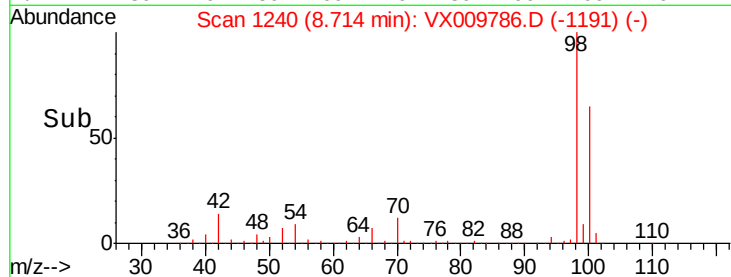
100000

50000

0

8.65 8.70 8.75 8.80

Time-->



#62

4-Bromofluorobenzene

Concen: 46.929 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009786.D

Acq: 22 May 2019 07:20

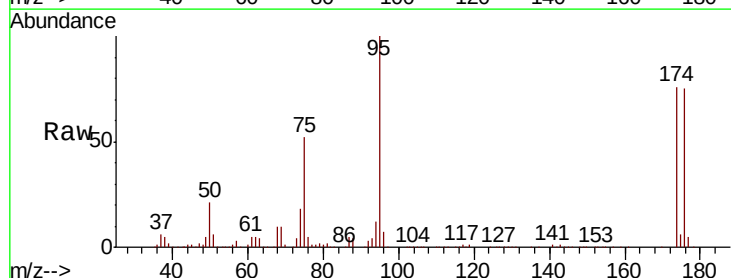
Tgt Ion: 95 Resp: 121448

Ion Ratio Lower Upper

95 100

174 80.9 0.0 161.6

176 78.3 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

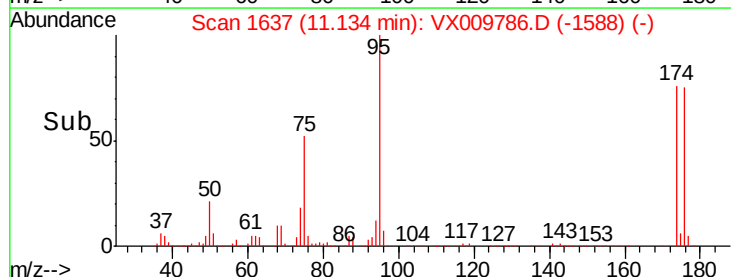
100000

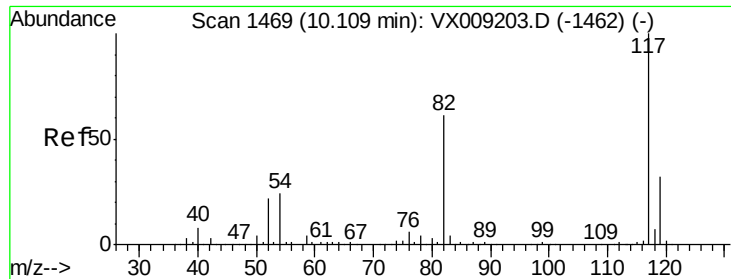
50000

0

11.10 11.13 11.16 11.19

Time-->

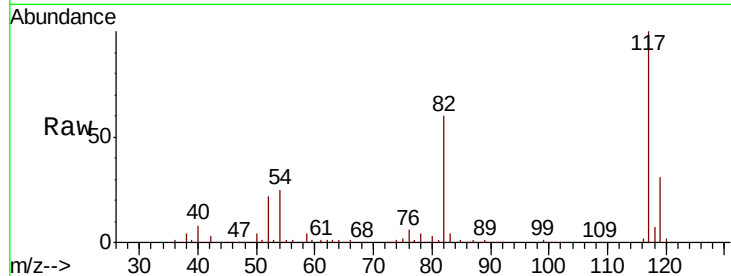




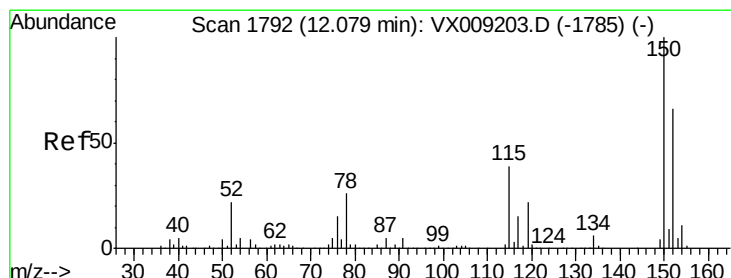
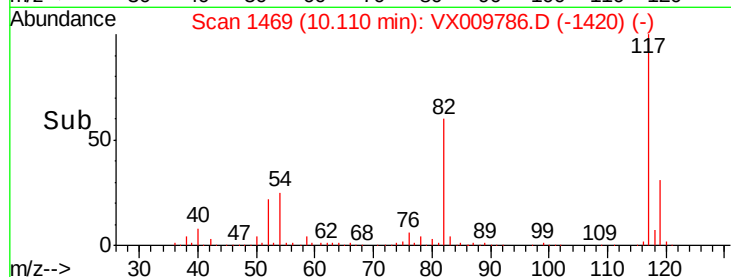
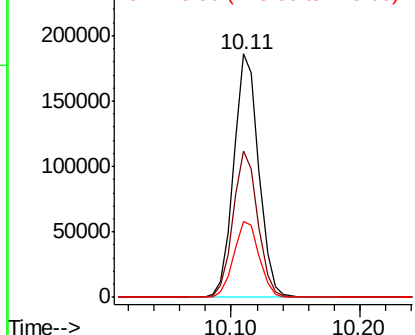
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009786.D
Acq: 22 May 2019 07:20

Instrument :
MSVOA_X
ClientSampleId :
MW-12B_R2

Tot Ion	Ratio	Lower	Upper
117	100		
82	59.9	48.8	73.2
119	31.2	25.8	38.6

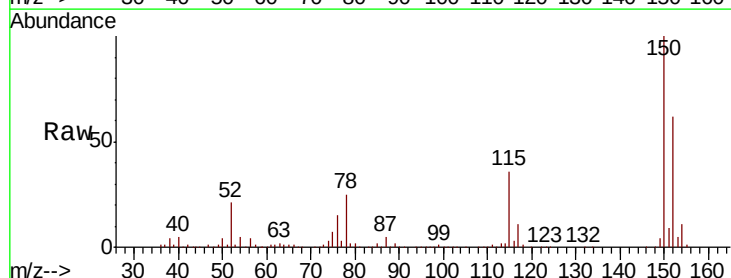


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

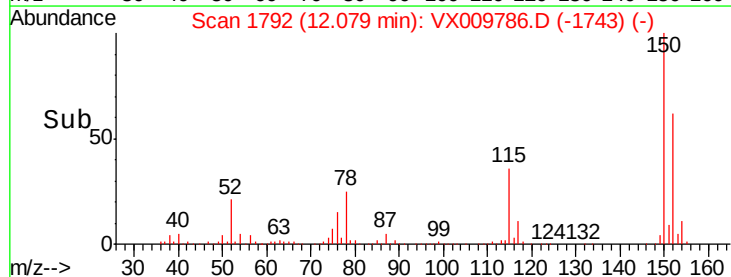
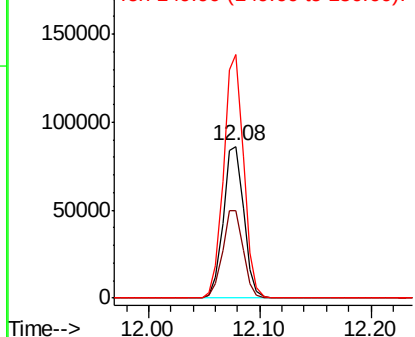


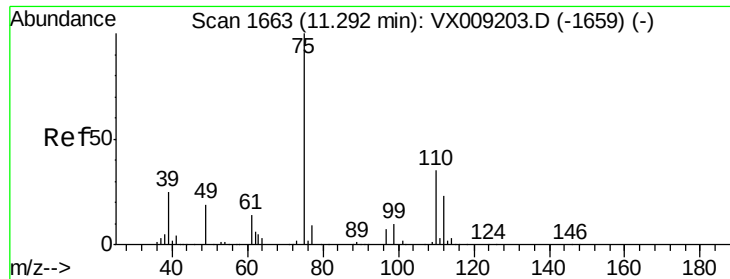
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX009786.D
Acq: 22 May 2019 07:20

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.4	41.2	123.6
150	157.4	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: 24.696 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009786.D

Acq: 22 May 2019 07:20

Instrument :

MSVOA_X

ClientSampleId :

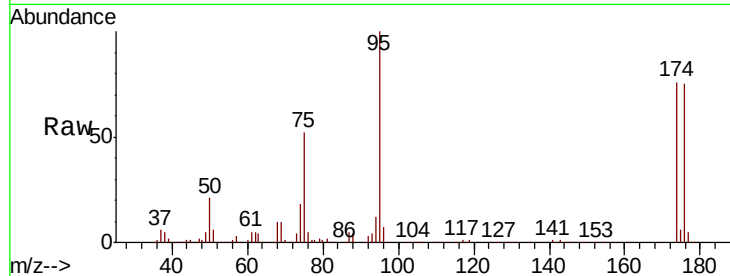
MW-12B_R2

Tot Ion: 75 Resp: 62785

Ion Ratio Lower Upper

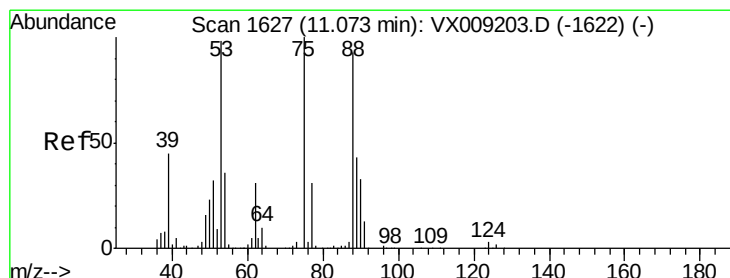
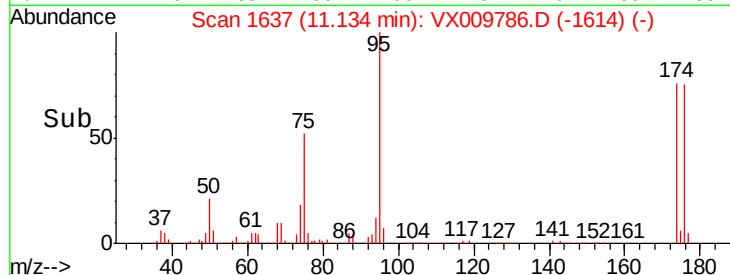
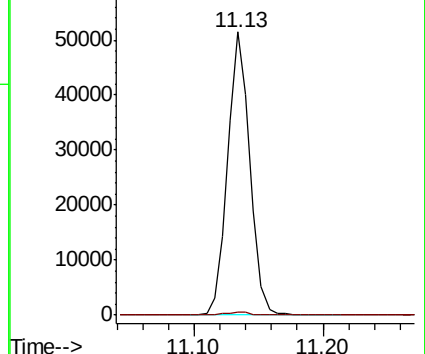
75 100

77 1.2 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: 63.188 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009786.D

Acq: 22 May 2019 07:20

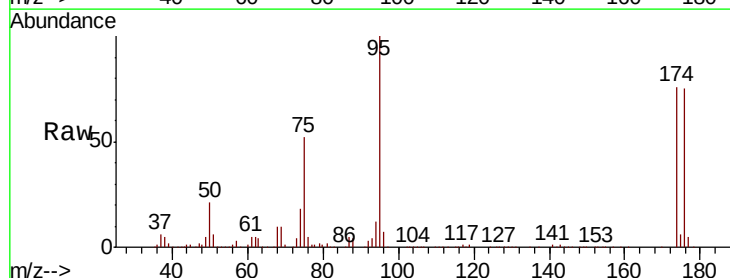
Tgt Ion: 75 Resp: 62785

Ion Ratio Lower Upper

75 100

53 0.2 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

