

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052219\
 Data File : VX009806.D
 Acq On : 22 May 2019 15:57
 Operator : JC/SP
 Sample : K2977-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 23 07:16:47 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	170449	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	272989	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	241441	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	101085	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	116841	50.21	ug/l	0.00
Spiked Amount			Recovery	=	100.42%	
35) Dibromofluoromethane	5.50	113	84453	49.21	ug/l	0.00
Spiked Amount			Recovery	=	98.42%	
50) Toluene-d8	8.71	98	348914	50.36	ug/l	0.00
Spiked Amount			Recovery	=	100.72%	
62) 4-Bromofluorobenzene	11.13	95	114513	45.49	ug/l	0.00
Spiked Amount			Recovery	=	90.98%	

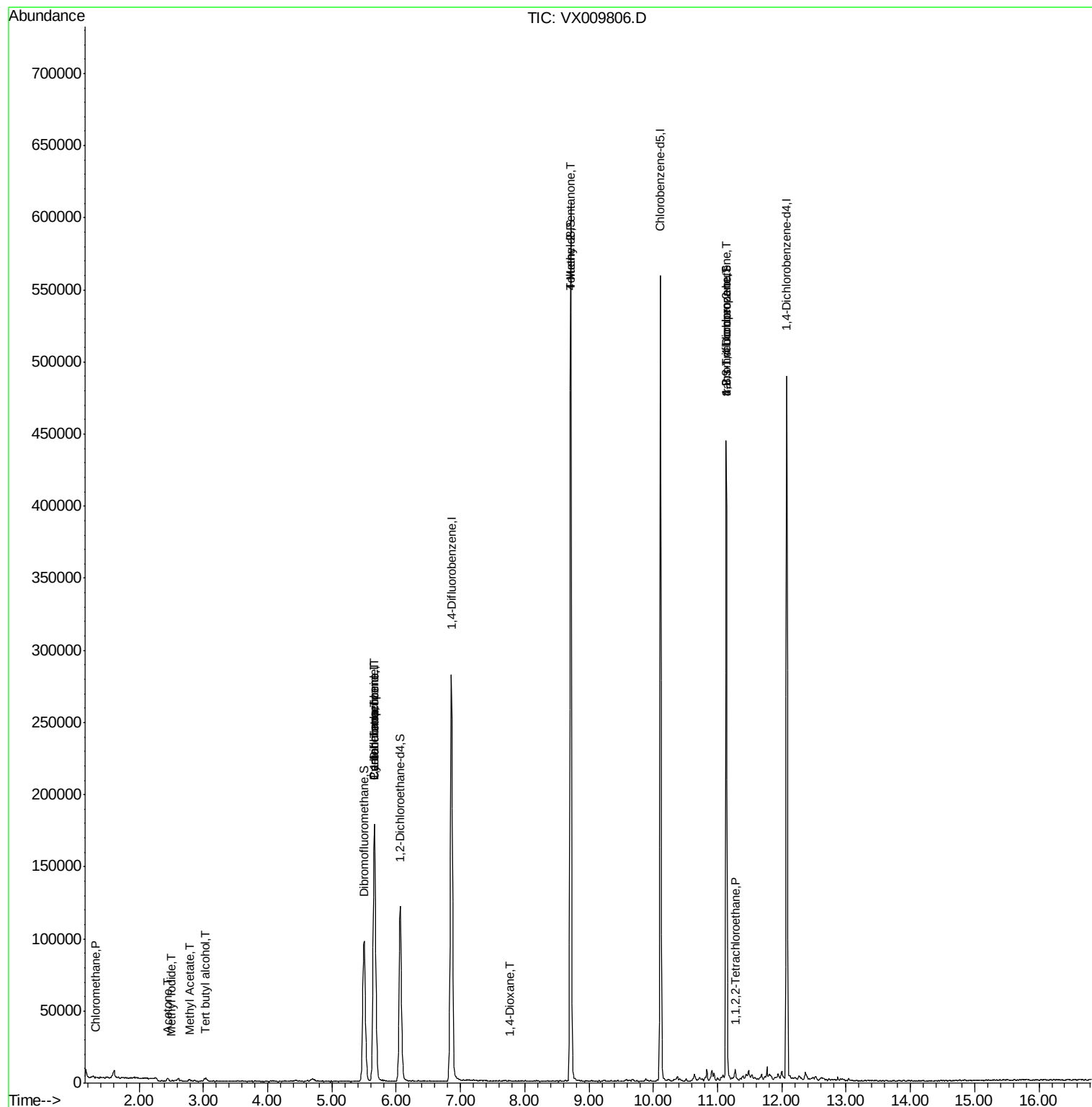
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	481	0.224	ug/l #	44
10) Methyl Iodide	2.51	142	45	4.616	ug/l #	42
11) Tert butyl alcohol	3.04	59	2459	4.566	ug/l	99
16) Acetone	2.44	43	2273	1.819	ug/l	95
18) Methyl Acetate	2.78	43	1513	0.509	ug/l	93
28) Bromochloromethane	5.00	49	143	Below Cal	#	20
31) Cyclohexane	5.65	56	3490	1.015	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	13687	5.395	ug/l #	50
38) Carbon Tetrachloride	5.66	117	16393	7.112	ug/l #	15
49) 1,4-Dioxane	7.76	88	21	0.369	ug/l #	1
51) 4-Methyl-2-Pentanone	8.71	43	1762	0.477	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	11.27	83	590	0.215	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	58760	25.060	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	58760	64.119	ug/l #	11

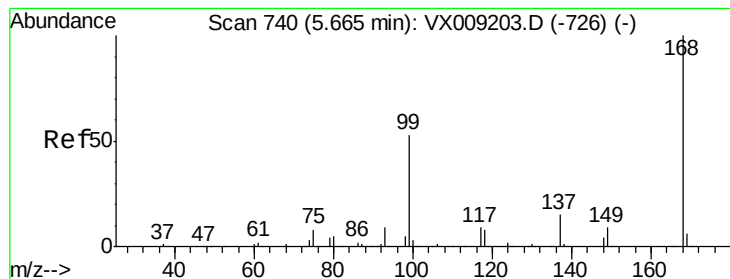
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX009806.D

Acq: 22 May 2019 15:57

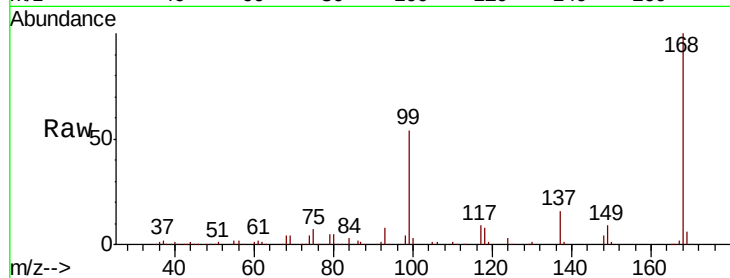
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 170449

Ion Ratio Lower Upper

168 100

99 54.1 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

60000

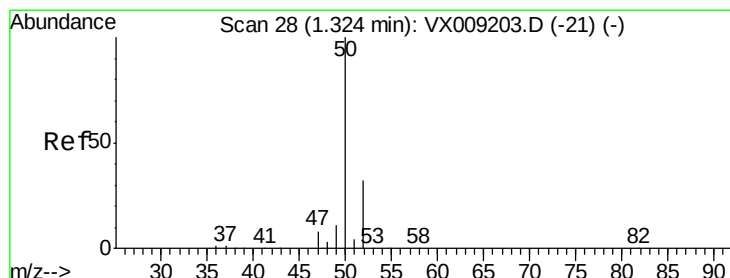
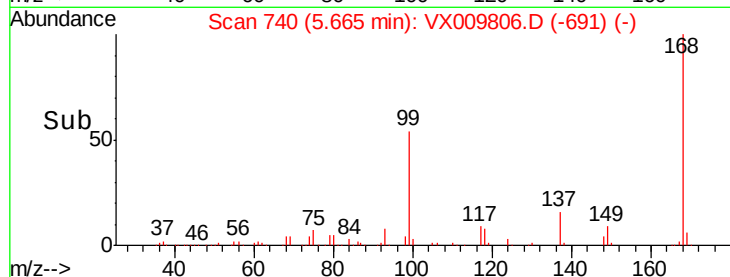
40000

20000

0

Time-->

5.60 5.70 5.80



#3

Chloromethane

Concen: 0.224 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX009806.D

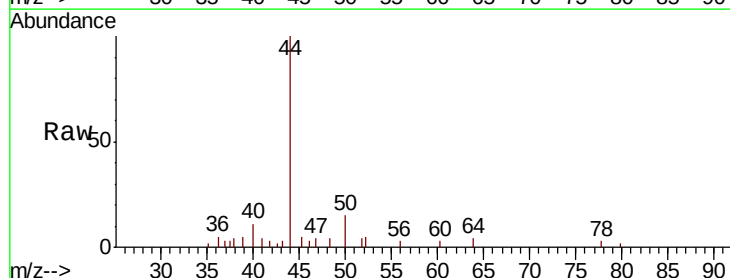
Acq: 22 May 2019 15:57

Tgt Ion: 50 Resp: 481

Ion Ratio Lower Upper

50 100

52 63.8 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

400

300

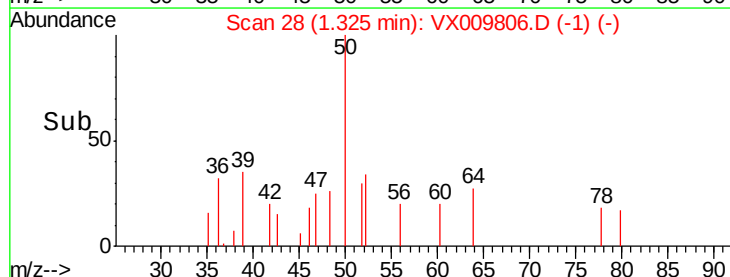
200

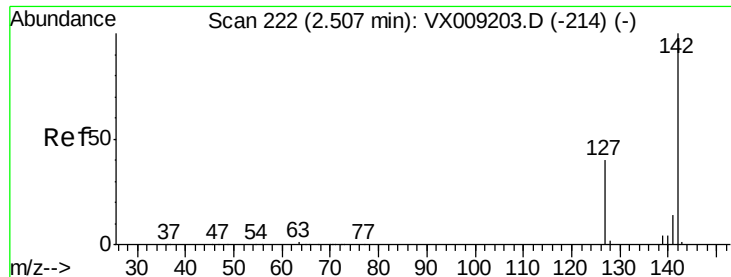
100

0

Time-->

1.30 1.35

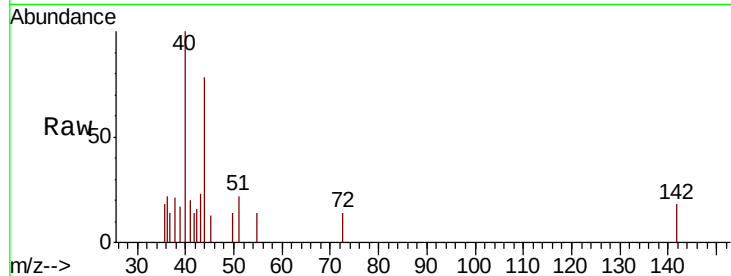




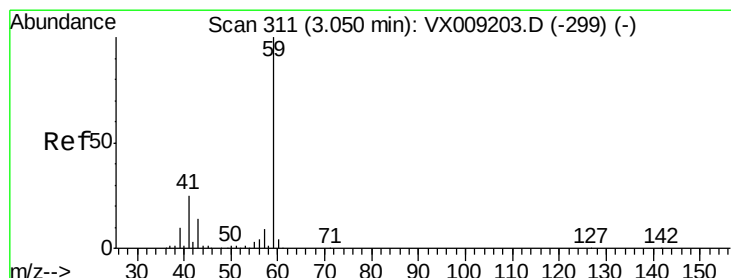
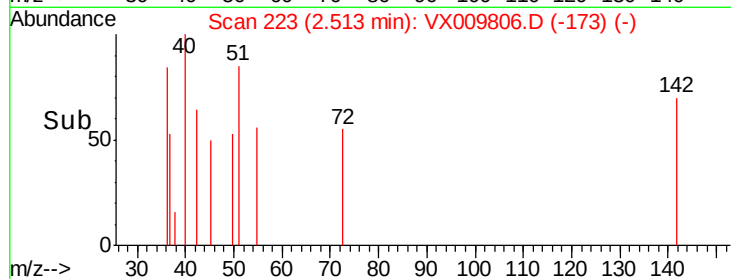
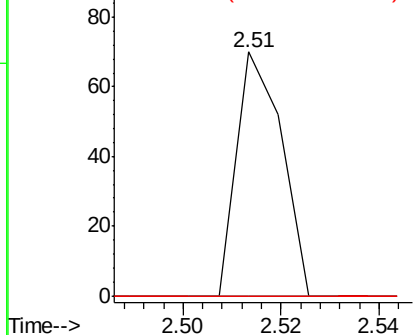
#10
Methvl Iodide
Concen: 4.616 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX009806.D
Acq: 22 May 2019 15:57

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:142 Resp: 45
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.5 17.3#

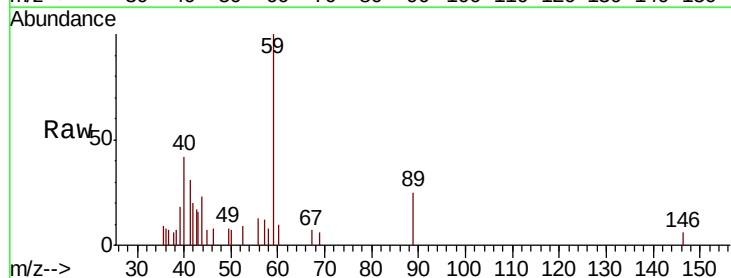


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

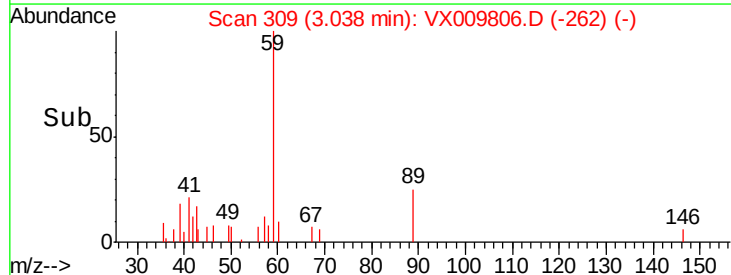
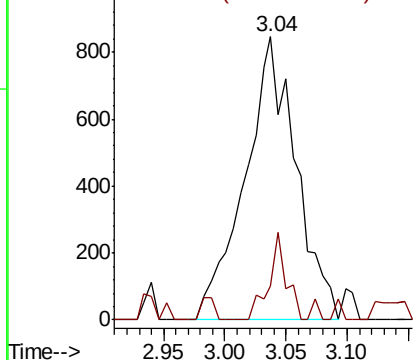


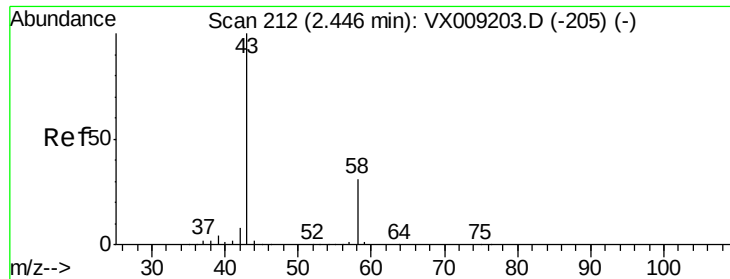
#11
Tert butyl alcohol
Concen: 4.566 ug/l
RT: 3.04 min Scan# 309
Delta R.T. -0.01 min
Lab File: VX009806.D
Acq: 22 May 2019 15:57

Tgt Ion: 59 Resp: 2459
Ion Ratio Lower Upper
59 100
57 10.4 8.2 12.2



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 1.819 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009806.D

Acq: 22 May 2019 15:57

Instrument :

MSVOA_X

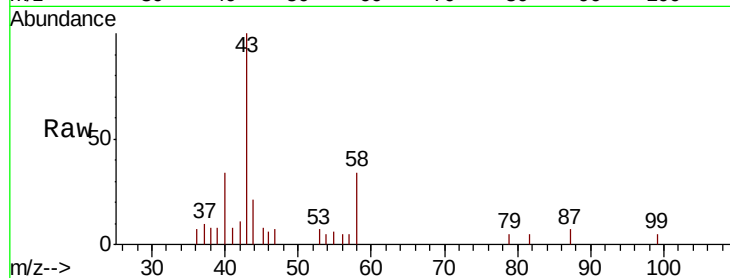
ClientSampleId :

Tot Ion: 43 Resp: 2273

Ion Ratio Lower Upper

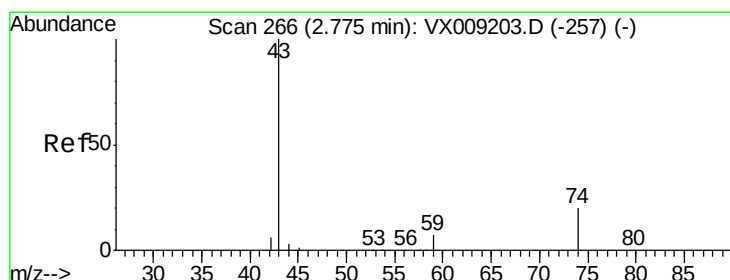
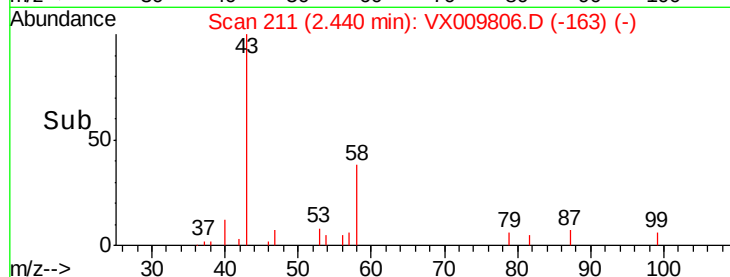
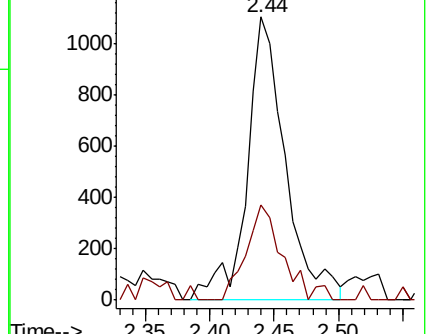
43 100

58 33.6 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.509 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX009806.D

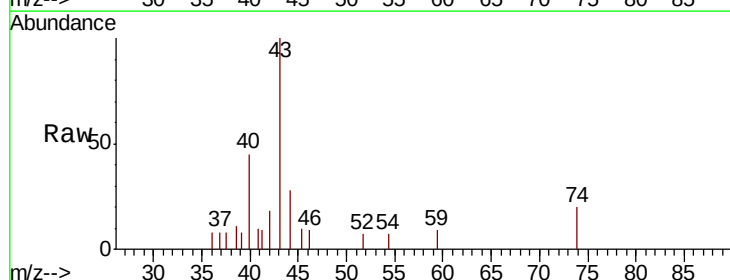
Acq: 22 May 2019 15:57

Tgt Ion: 43 Resp: 1513

Ion Ratio Lower Upper

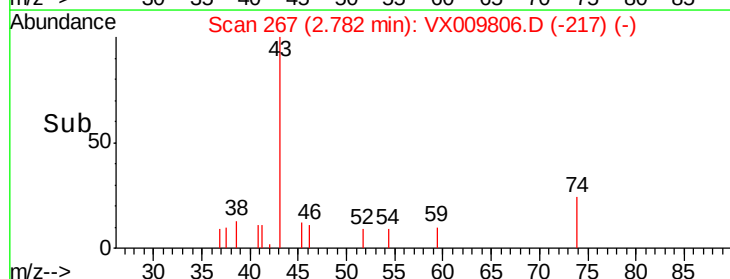
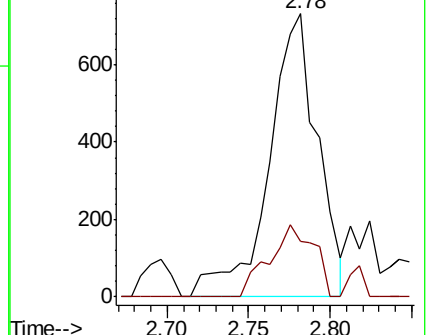
43 100

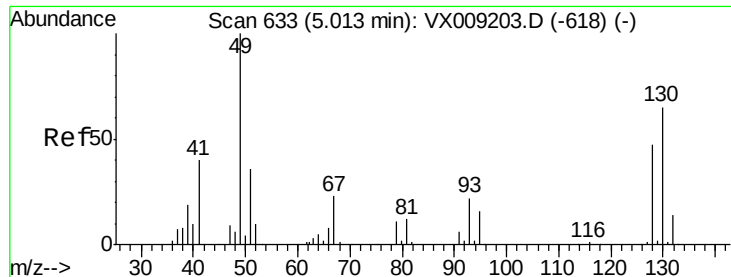
74 23.4 16.2 24.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.00 min Scan# 631

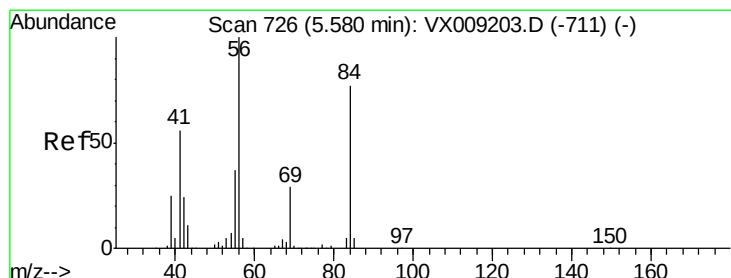
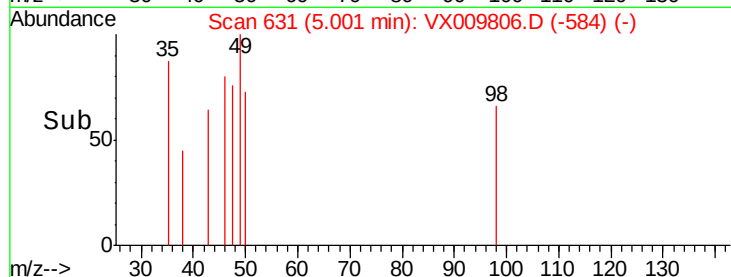
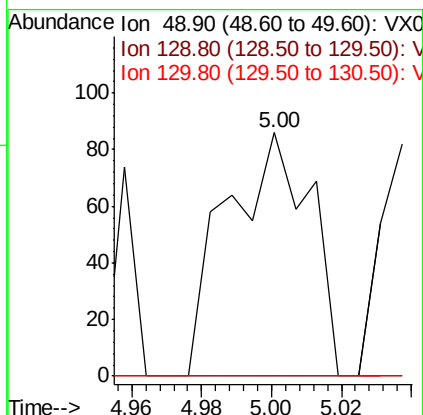
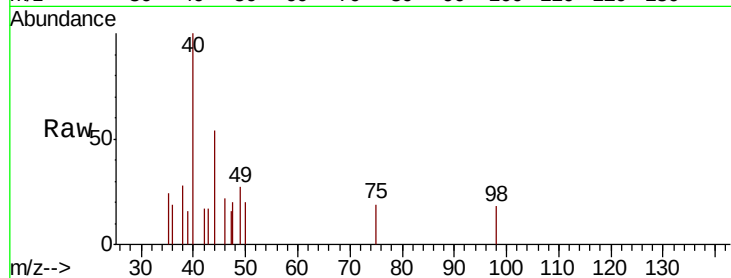
Delta R.T. -0.01 min

Lab File: VX009806.D

Acq: 22 May 2019 15:57

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 49 Resp: 143
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 0.0 51.2 76.8#



#31

Cyclohexane

Concen: 1.015 ug/l

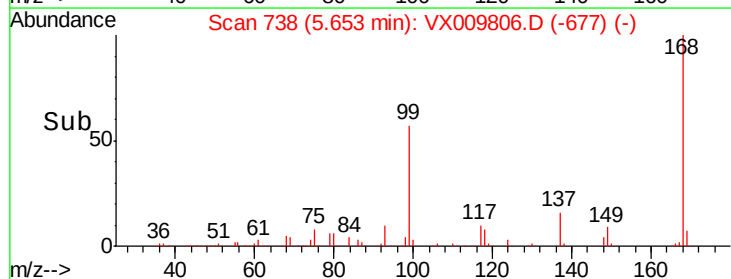
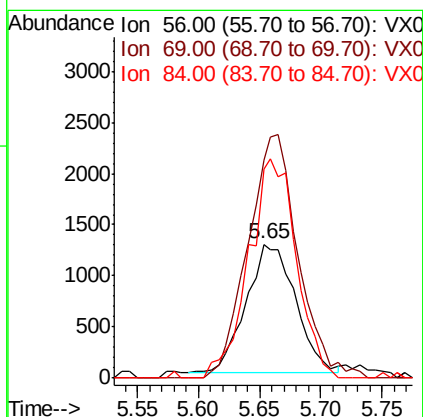
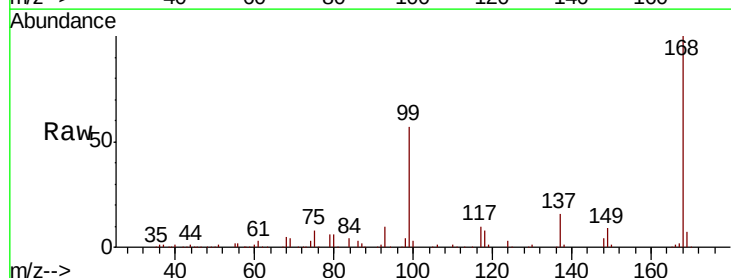
RT: 5.65 min Scan# 738

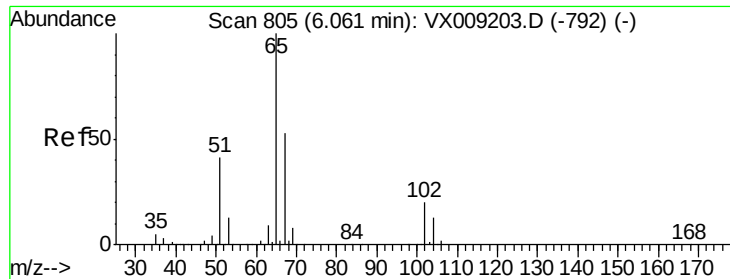
Delta R.T. 0.07 min

Lab File: VX009806.D

Acq: 22 May 2019 15:57

Tgt Ion: 56 Resp: 3490
Ion Ratio Lower Upper
56 100
69 171.2 23.4 35.0#
84 164.1 61.9 92.9#

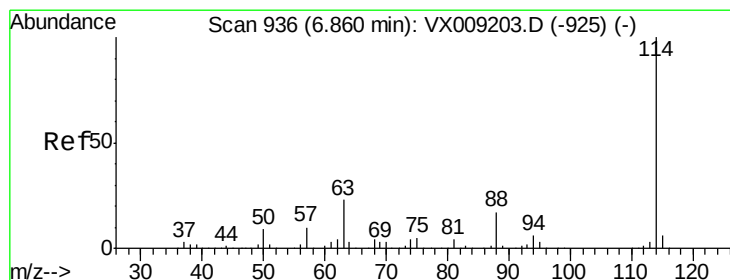
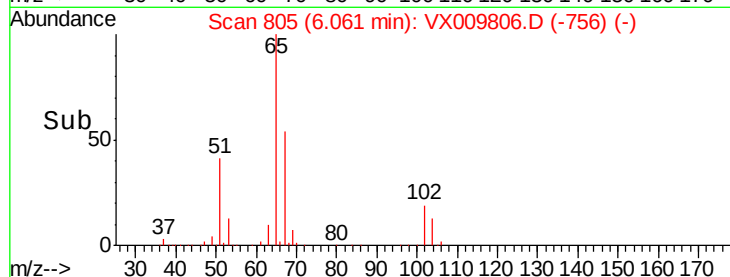
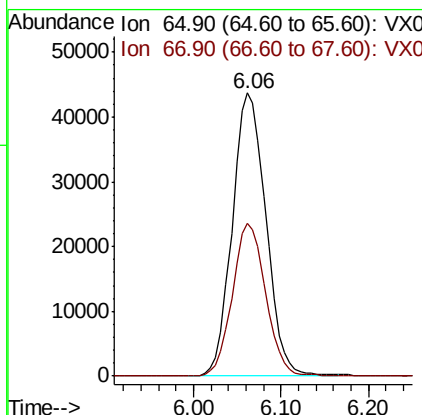
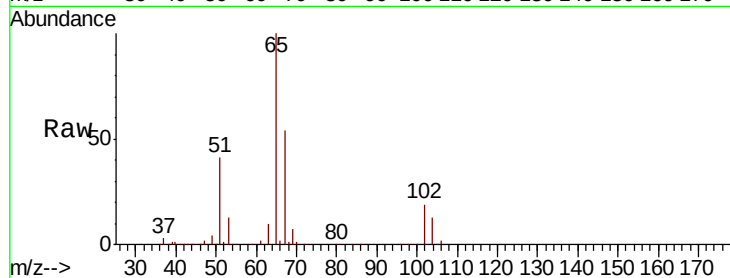




#33
 1,2-Dichloroethane-d4
 Concen: 50.215 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX009806.D
 Acq: 22 May 2019 15:57

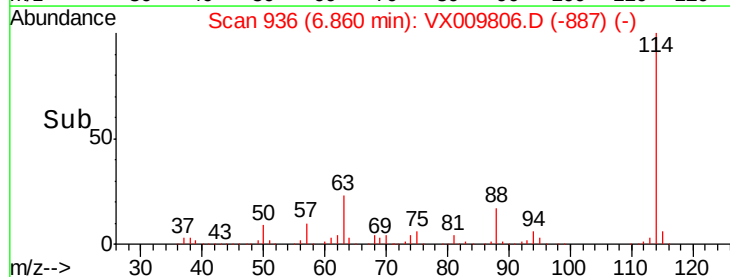
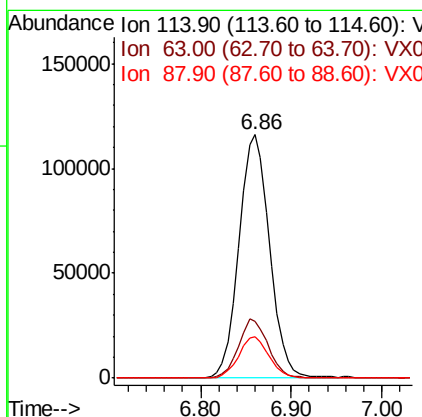
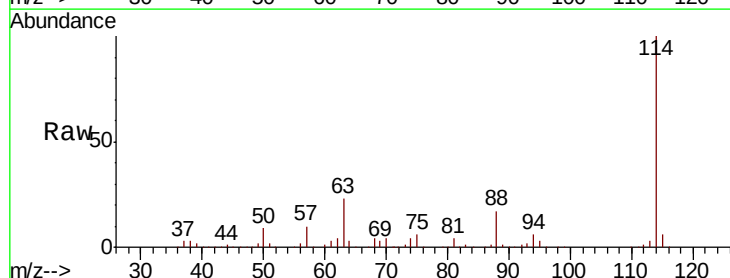
Instrument :
 MSVOA_X
 ClientSampleId :

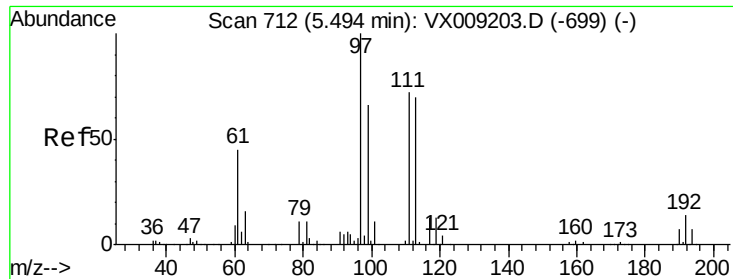
Tot Ion: 65 Resp: 116841
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009806.D
 Acq: 22 May 2019 15:57

Tgt Ion: 114 Resp: 272989
 Ion Ratio Lower Upper
 114 100
 63 23.5 0.0 45.6
 88 17.0 0.0 33.2





#35

Dibromofluoromethane

Concen: 49.212 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX009806.D

Acq: 22 May 2019 15:57

Instrument :

MSVOA_X

ClientSampleId :

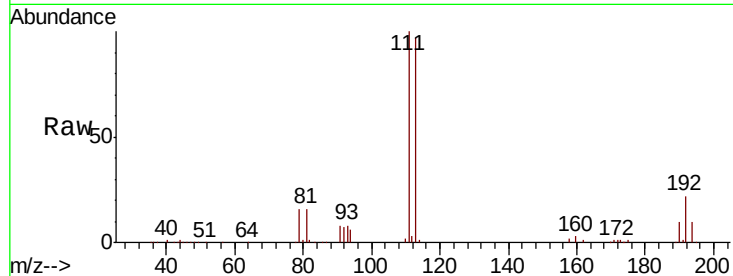
Tot Ion:113 Resp: 84453

Ion Ratio Lower Upper

113 100

111 103.4 82.8 124.2

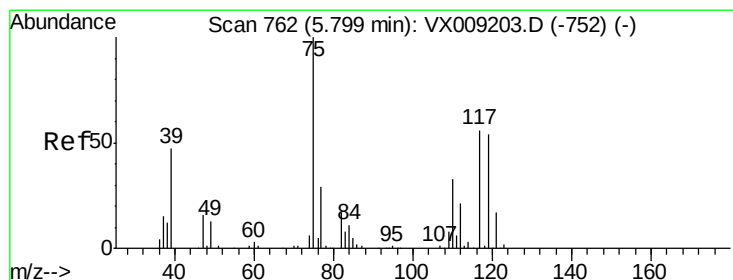
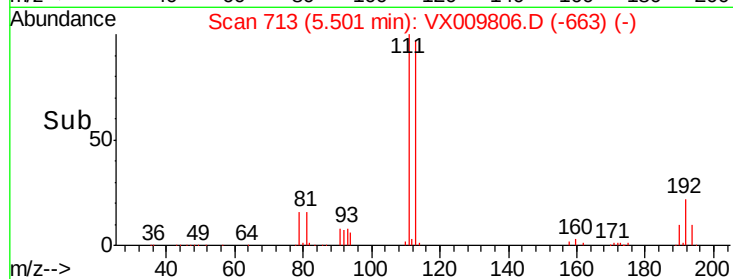
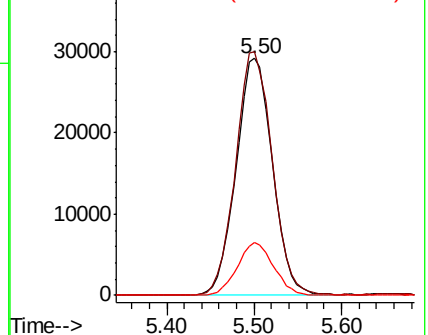
192 22.1 17.0 25.6



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: 5.395 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009806.D

Acq: 22 May 2019 15:57

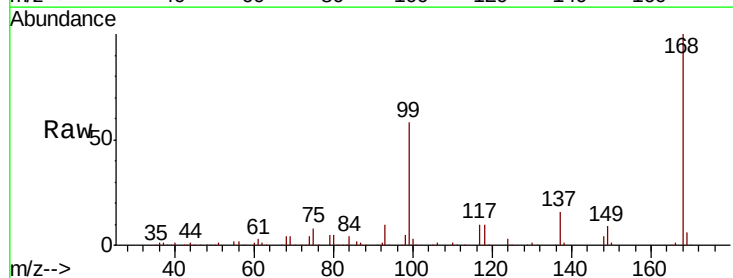
Tgt Ion: 75 Resp: 13687

Ion Ratio Lower Upper

75 100

110 9.0 16.9 50.6#

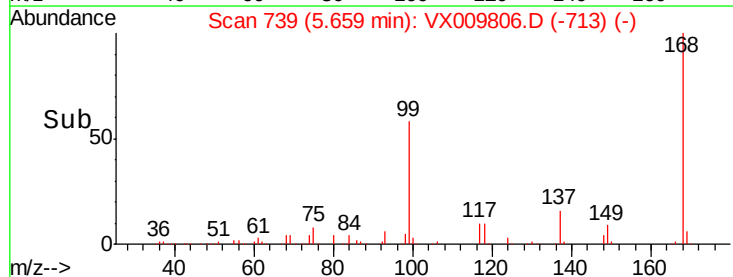
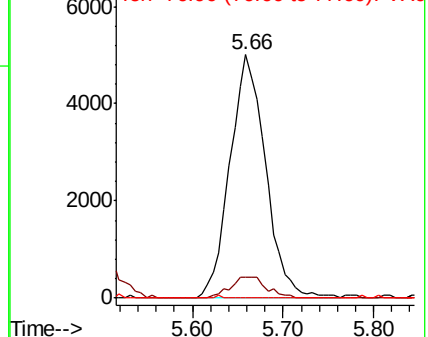
77 0.0 24.8 37.2#

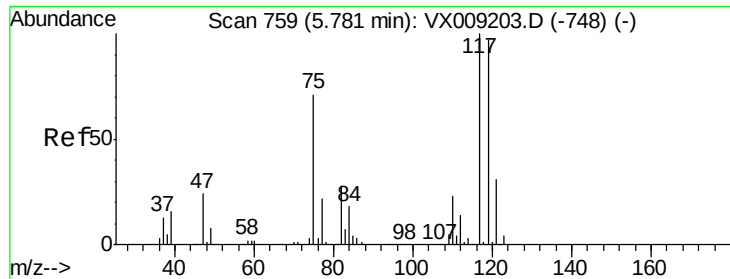


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.112 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009806.D

Acq: 22 May 2019 15:57

Instrument :

MSVOA_X

ClientSampleId :

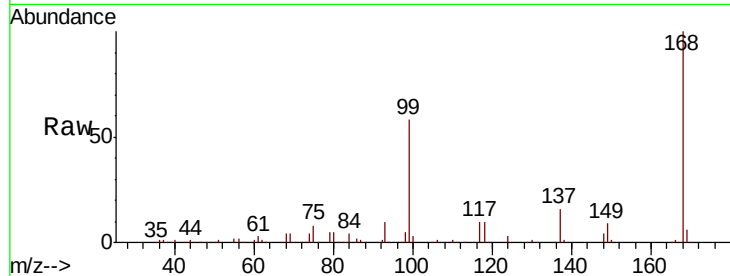
Tot Ion:117 Resp: 16393

Ion Ratio Lower Upper

117 100

119 4.9 77.5 116.3#

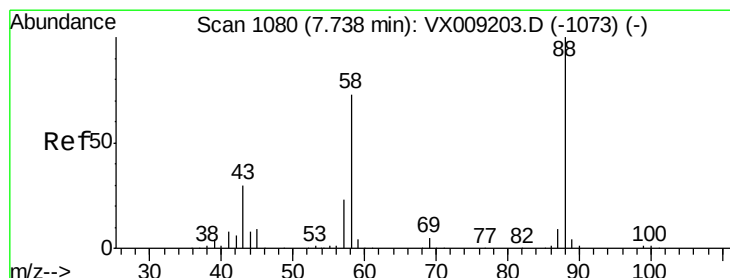
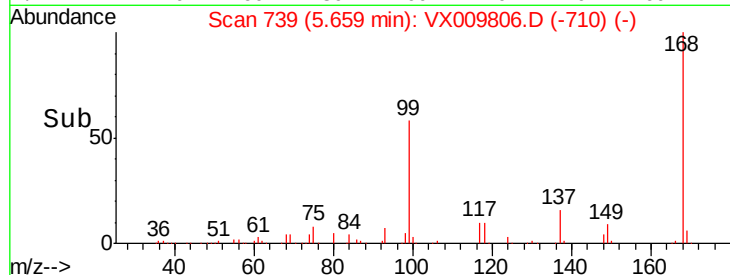
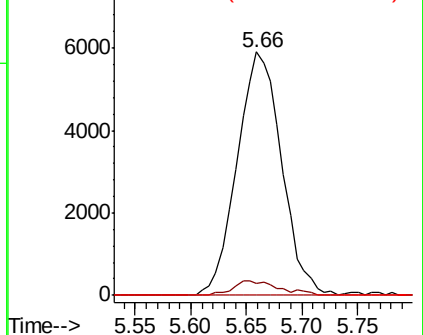
121 0.0 24.7 37.1#



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: 0.369 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.02 min

Lab File: VX009806.D

Acq: 22 May 2019 15:57

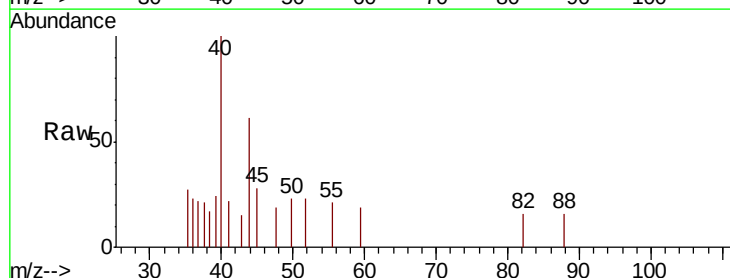
Tgt Ion: 88 Resp: 21

Ion Ratio Lower Upper

88 100

43 1157.1 28.6 42.8#

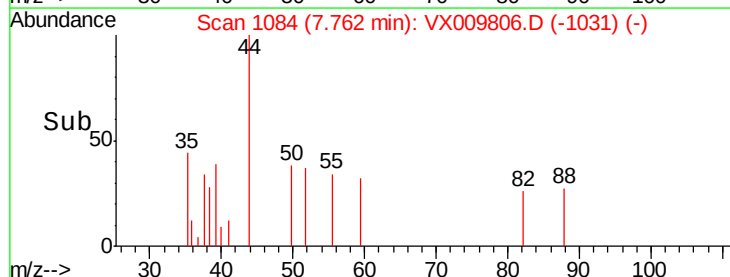
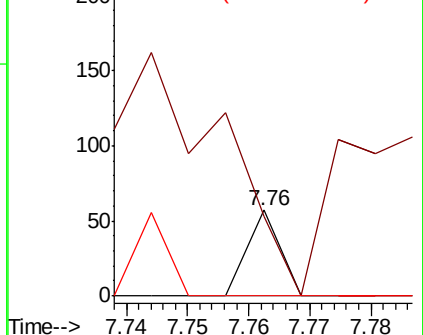
58 95.2 61.7 92.5#

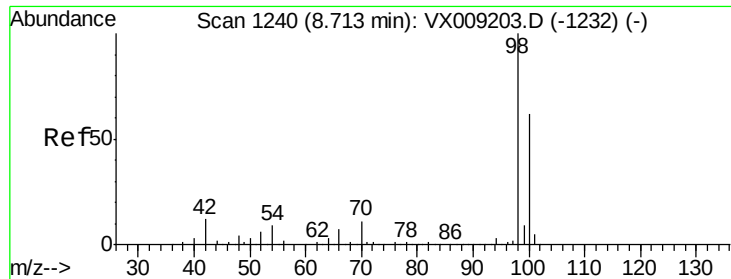


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.360 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009806.D

Acq: 22 May 2019 15:57

Instrument :

MSVOA_X

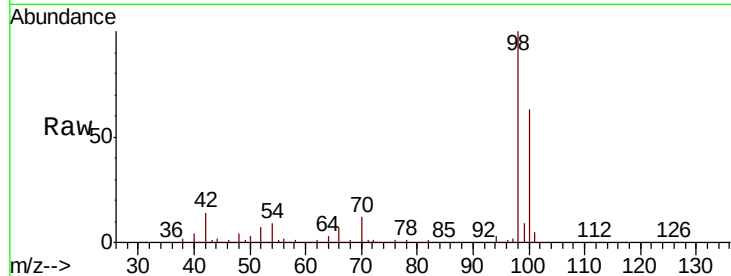
ClientSampled :

Tot Ion: 98 Resp: 348914

Ion Ratio Lower Upper

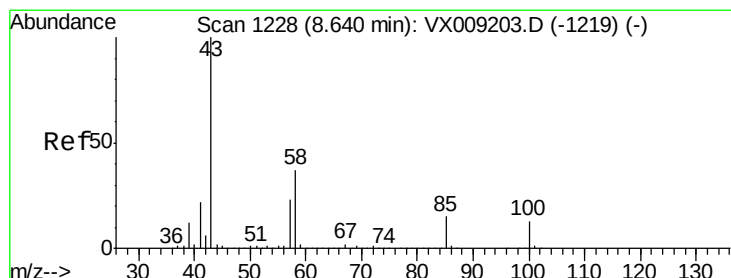
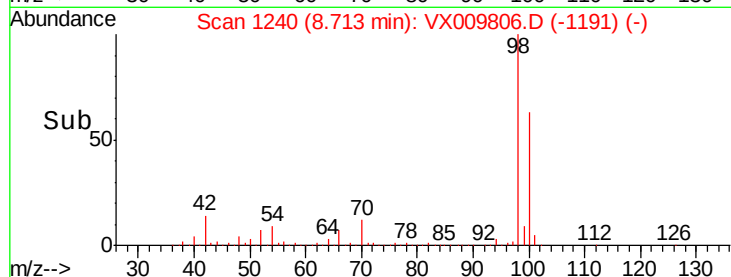
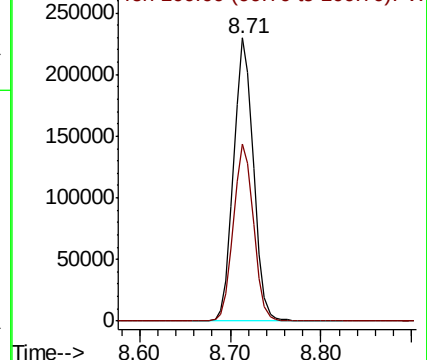
98 100

100 63.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.477 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.07 min

Lab File: VX009806.D

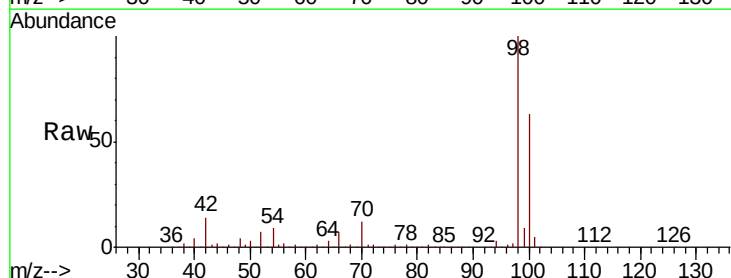
Acq: 22 May 2019 15:57

Tgt Ion: 43 Resp: 1762

Ion Ratio Lower Upper

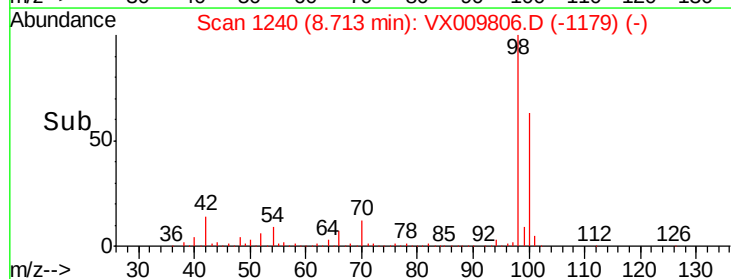
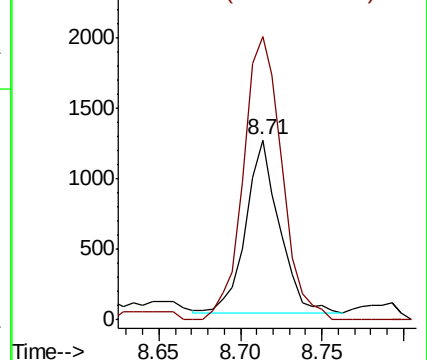
43 100

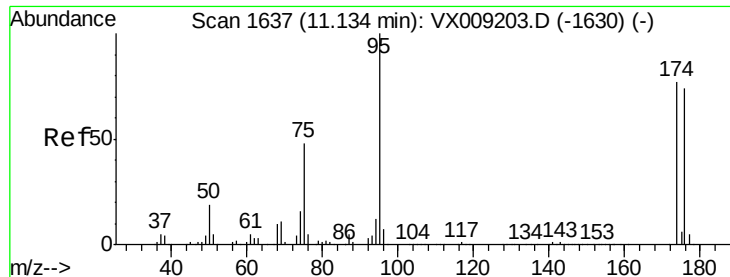
58 188.1 29.5 44.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 45.487 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009806.D

Acq: 22 May 2019 15:57

Instrument :

MSVOA_X

ClientSampleId :

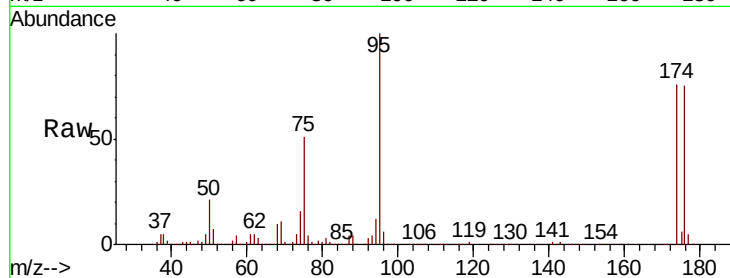
Tot Ion: 95 Resp: 114513

Ion Ratio Lower Upper

95 100

174 80.8 0.0 161.6

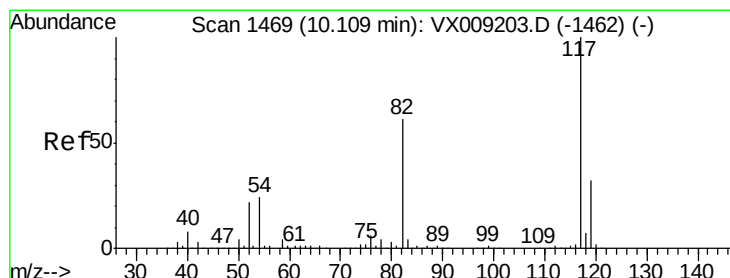
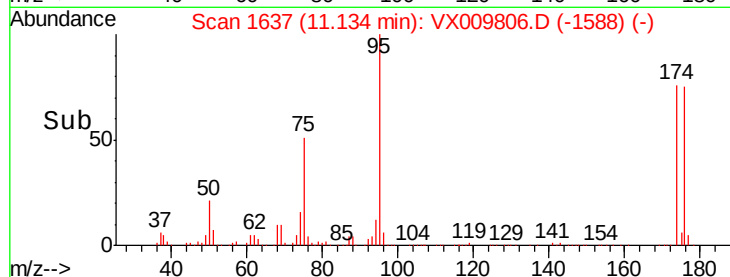
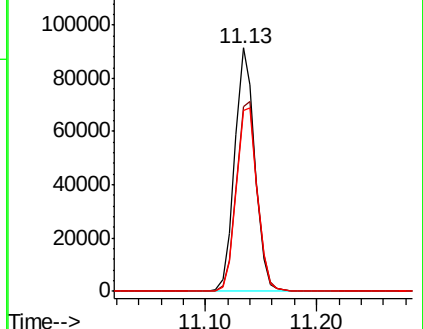
176 78.9 0.0 159.2



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: VX009806.D

Acq: 22 May 2019 15:57

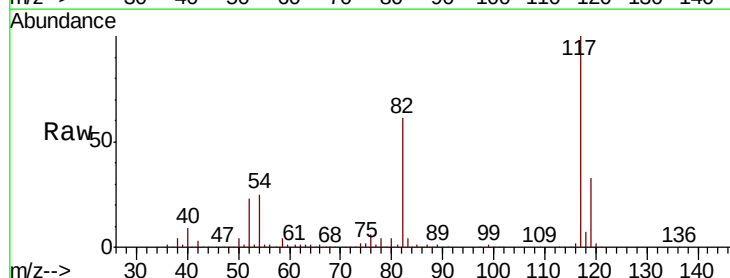
Tgt Ion: 117 Resp: 241441

Ion Ratio Lower Upper

117 100

82 61.0 48.8 73.2

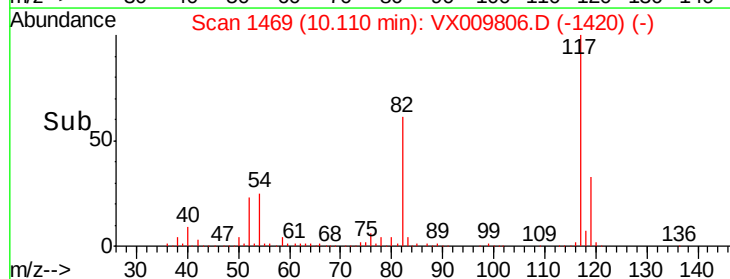
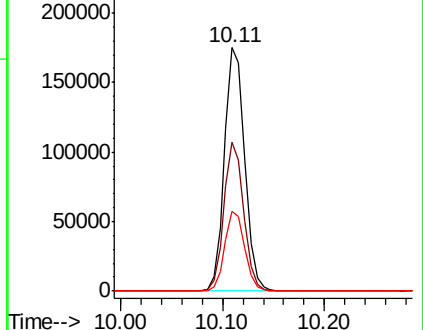
119 32.7 25.8 38.6

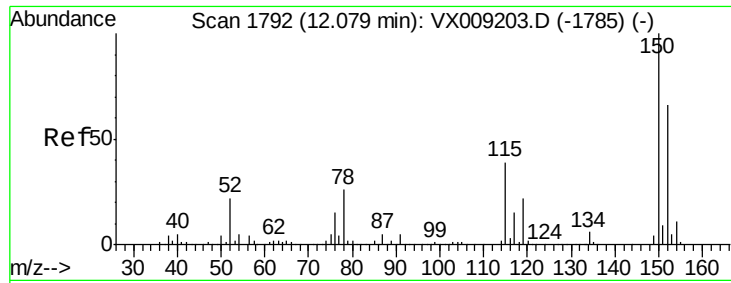


Abundance Ion 116.90 (116.60 to 117.60): VX009203.D (-1462) (-)

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

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

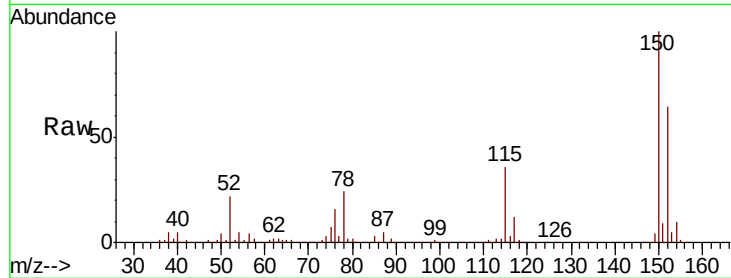




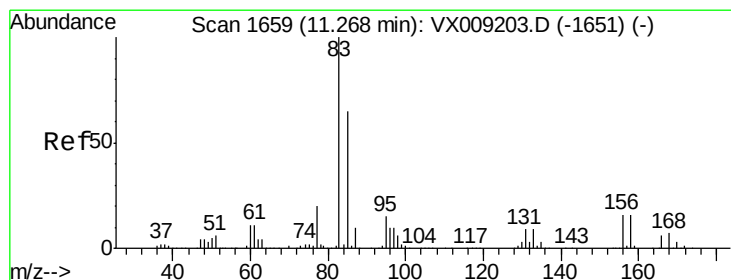
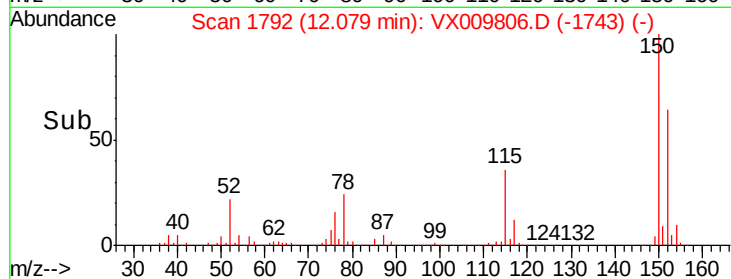
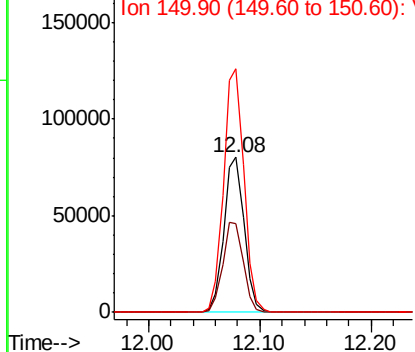
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.08 min Scan# 1792
 Delta R.T. 0.00 min
 Lab File: VX009806.D
 Acq: 22 May 2019 15:57

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:152 Resp: 101085
 Ion Ratio Lower Upper
 152 100
 115 59.1 41.2 123.6
 150 157.8 0.0 346.4

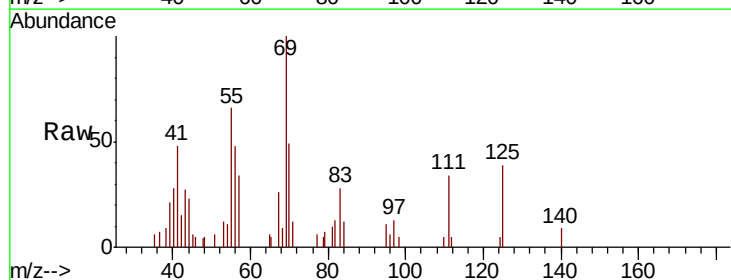


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

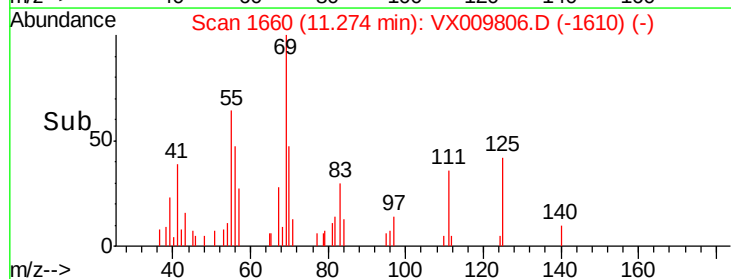
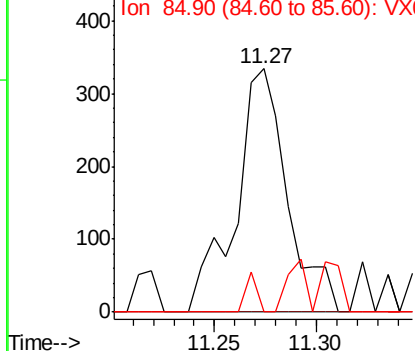


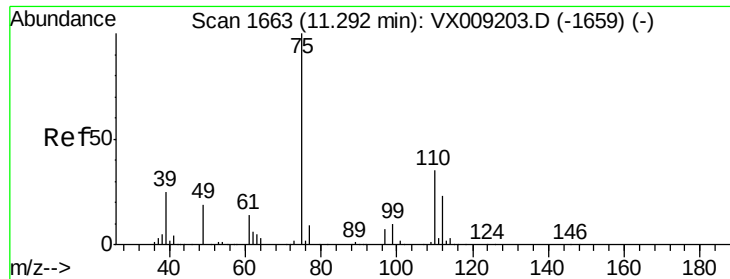
#75
 1,1,2,2-Tetrachloroethane
 Concen: 0.215 ug/l
 RT: 11.27 min Scan# 1660
 Delta R.T. 0.01 min
 Lab File: VX009806.D
 Acq: 22 May 2019 15:57

Tgt Ion: 83 Resp: 590
 Ion Ratio Lower Upper
 83 100
 131 0.0 4.6 13.8#
 85 3.4 32.0 96.2#



Abundance Ion 82.90 (82.60 to 83.60): VX0
 Ion 130.80 (130.50 to 131.50): V
 Ion 84.90 (84.60 to 85.60): VX0





#76

1,2,3-Trichloropropane

Concen: 25.060 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009806.D

Acq: 22 May 2019 15:57

Instrument :

MSVOA_X

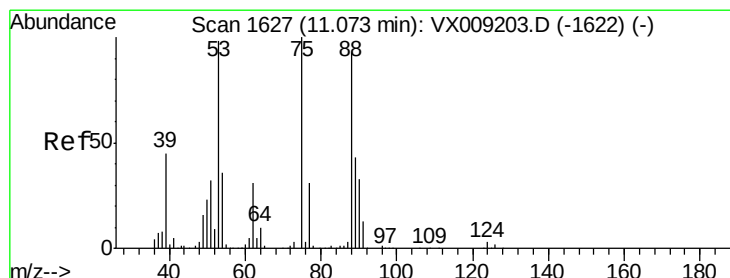
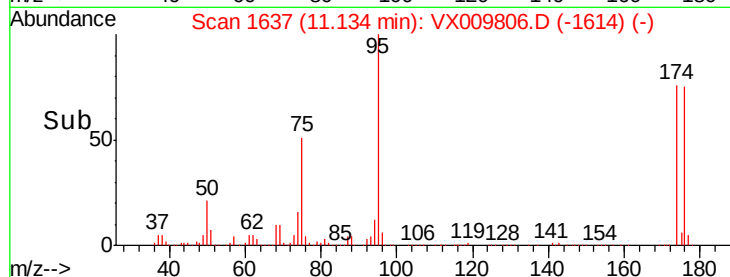
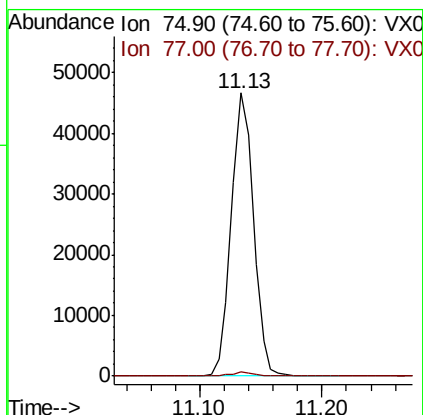
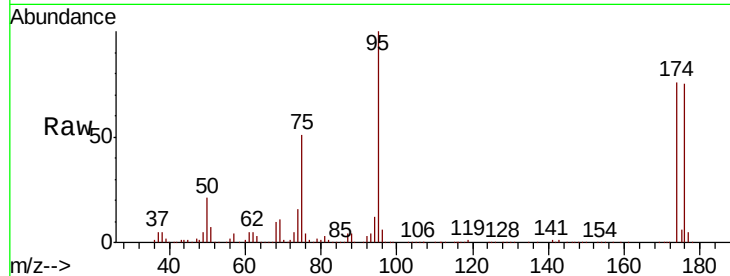
ClientSampleId :

Tot Ion: 75 Resp: 58760

Ion Ratio Lower Upper

75 100

77 1.4 22.1 66.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.119 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009806.D

Acq: 22 May 2019 15:57

Tgt Ion: 75 Resp: 58760

Ion Ratio Lower Upper

75 100

53 0.3 79.0 118.6#

89 0.1 34.7 52.1#

