

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050319\
 Data File : VX009319.D
 Acq On : 03 May 2019 19:00
 Operator : JC/SP
 Sample : K2662-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z5-TB04-190430

Quant Time: May 03 23:19:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 07:03:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	193147	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	308579	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	266471	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	104967	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	127694	48.43	ug/l	0.00
Spiked Amount			Recovery	=	96.86%	
35) Dibromofluoromethane	5.50	113	95527	49.24	ug/l	0.00
Spiked Amount			Recovery	=	98.48%	
50) Toluene-d8	8.71	98	384220	49.06	ug/l	0.00
Spiked Amount			Recovery	=	98.12%	
62) 4-Bromofluorobenzene	11.13	95	121953	42.85	ug/l	0.00
Spiked Amount			Recovery	=	85.70%	

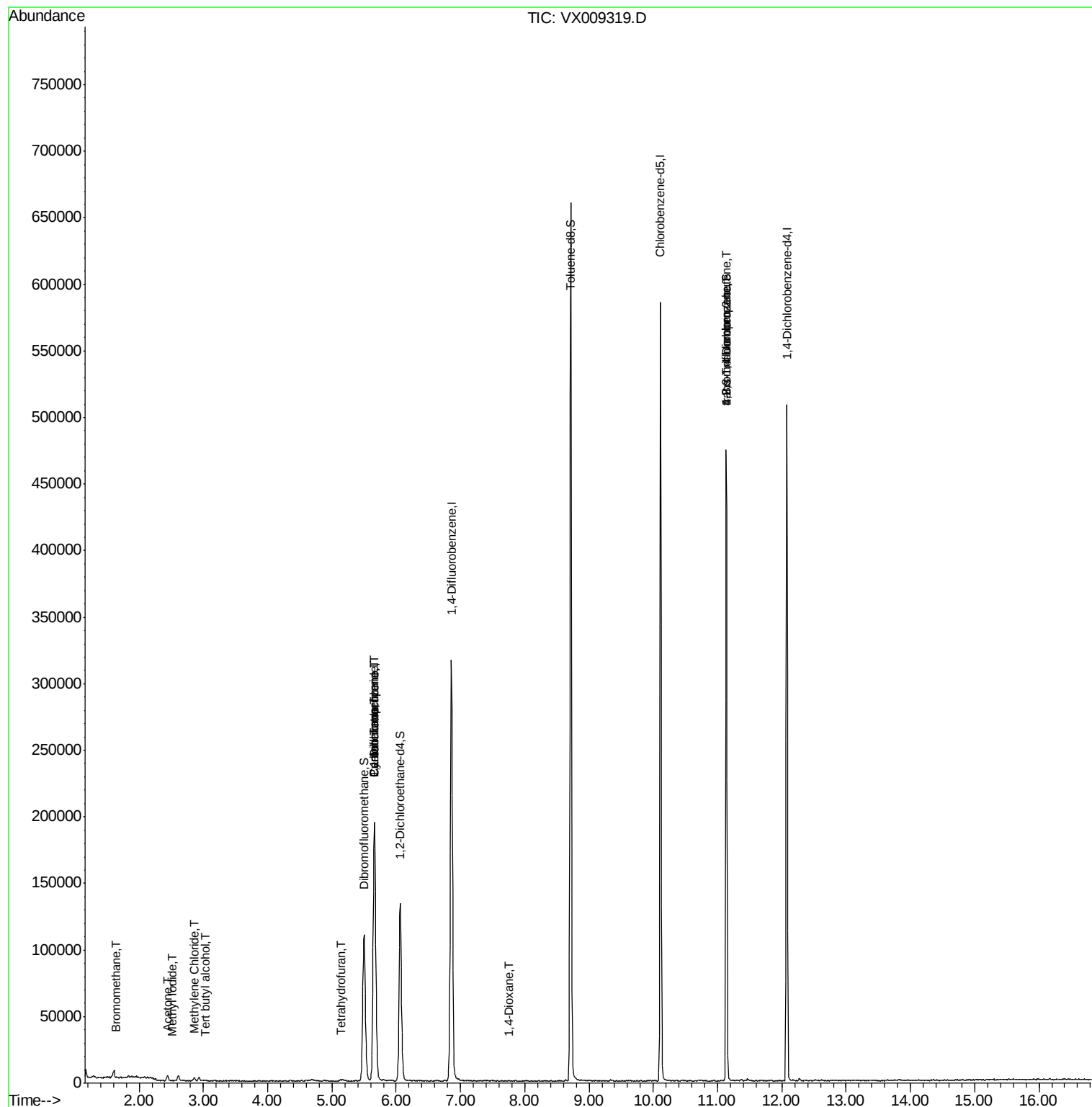
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	285	0.200	ug/l #	70
10) Methyl Iodide	2.51	142	20	4.603	ug/l #	42
11) Tert butyl alcohol	3.04	59	191	0.313	ug/l #	73
16) Acetone	2.44	43	4656	3.289	ug/l	94
20) Methylene Chloride	2.85	84	979	0.427	ug/l	89
28) Bromochloromethane	4.99	49	41	Below Cal	#	20
29) Tetrahydrofuran	5.15	42	1228	0.867	ug/l #	81
31) Cyclohexane	5.66	56	4161	1.067	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	15034	5.243	ug/l #	50
38) Carbon Tetrachloride	5.66	117	18106	6.949	ug/l #	16
49) 1,4-Dioxane	7.75	88	24	0.373	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	62450	25.648	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	62450	65.625	ug/l #	10

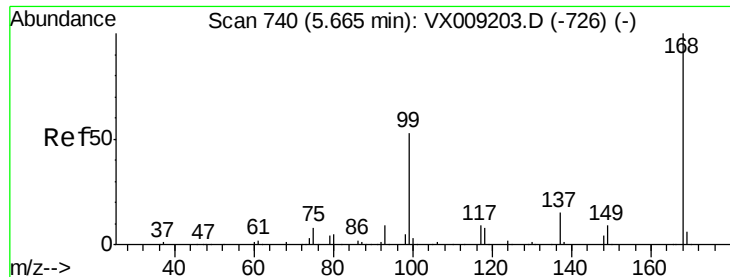
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 03 23:19:58 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : Tue Apr 30 07:03:50 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009319.D

Acq: 03 May 2019 19:00

Instrument :

MSVOA_X

ClientSampleId :

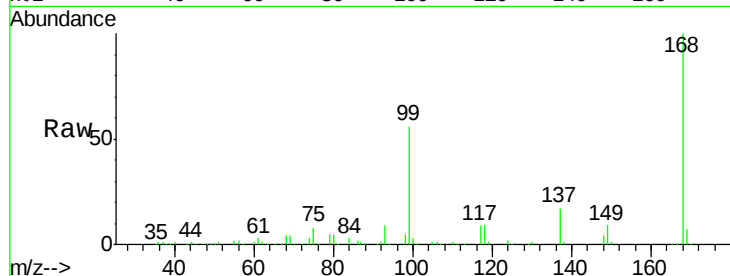
Z5-TB04-190430

Tot Ion:168 Resp: 193147

Ion Ratio Lower Upper

168 100

99 55.6 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

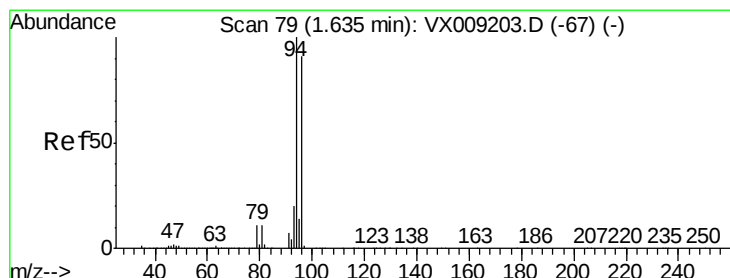
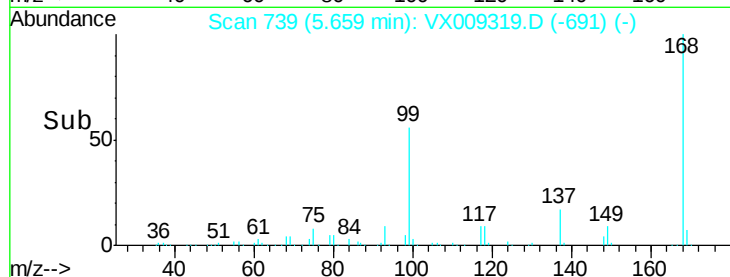
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.200 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009319.D

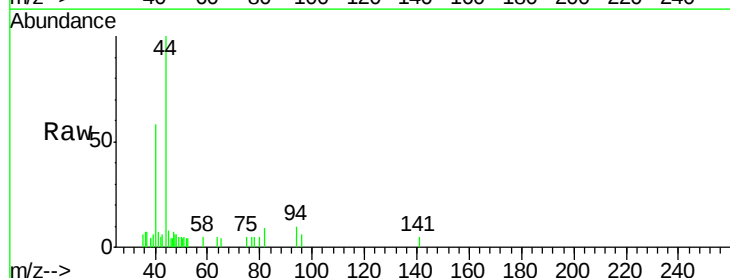
Acq: 03 May 2019 19:00

Tgt Ion: 94 Resp: 285

Ion Ratio Lower Upper

94 100

96 62.5 73.0 109.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

150

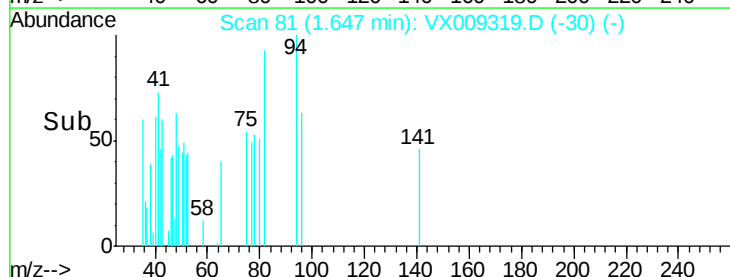
100

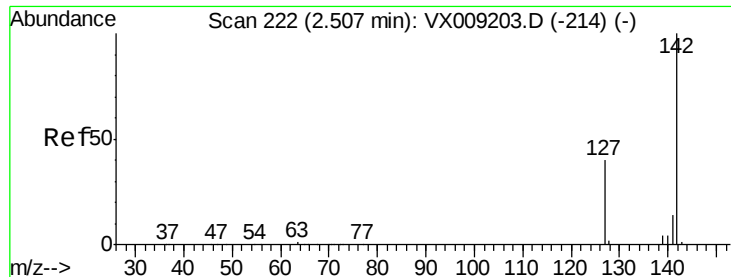
50

0

Time-->

1.60 1.65 1.70

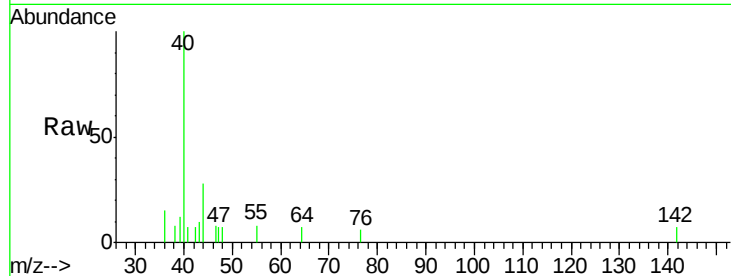




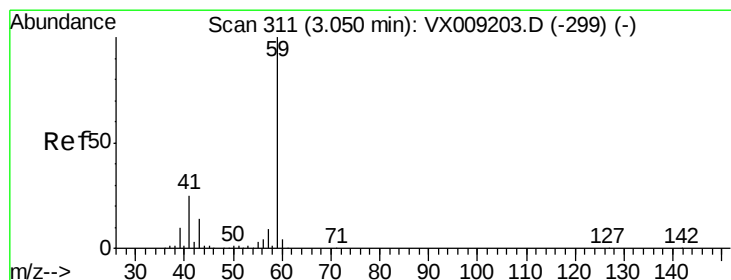
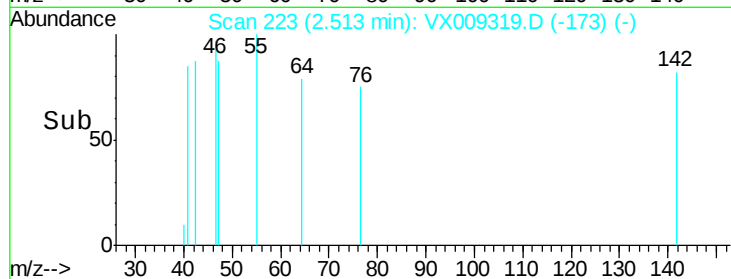
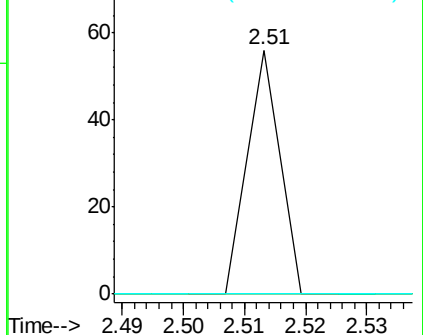
#10
Methyl Iodide
Concen: 4.603 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX009319.D
Acq: 03 May 2019 19:00

Instrument :
MSVOA_X
ClientSampleId :
Z5-TB04-190430

Tot Ion:142 Resp: 20
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.5 17.3#

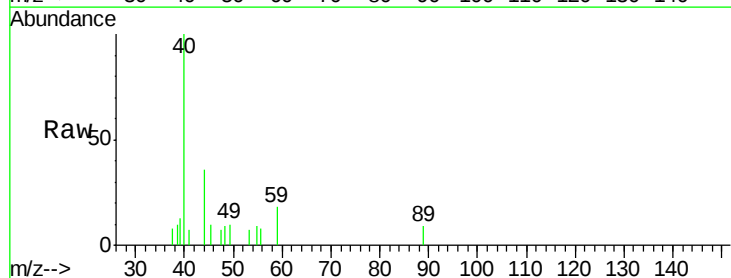


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

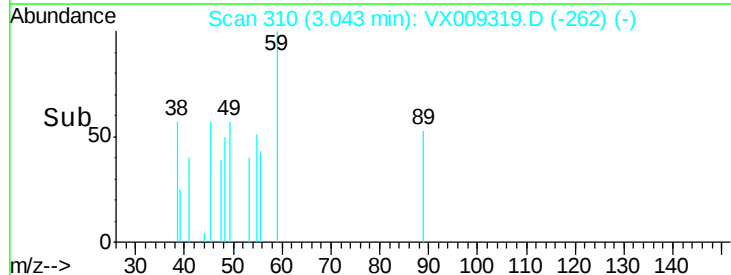
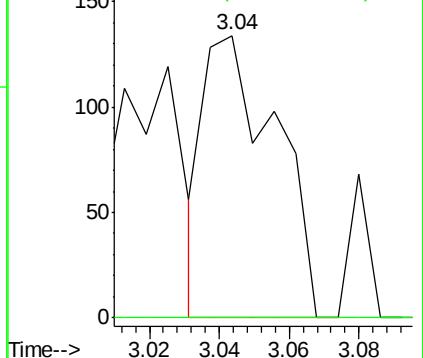


#11
Tert butyl alcohol
Concen: 0.313 ug/l
RT: 3.04 min Scan# 310
Delta R.T. -0.01 min
Lab File: VX009319.D
Acq: 03 May 2019 19:00

Tgt Ion: 59 Resp: 191
Ion Ratio Lower Upper
59 100
57 0.0 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: 3.289 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009319.D

Acq: 03 May 2019 19:00

Instrument :

MSVOA_X

ClientSampleId :

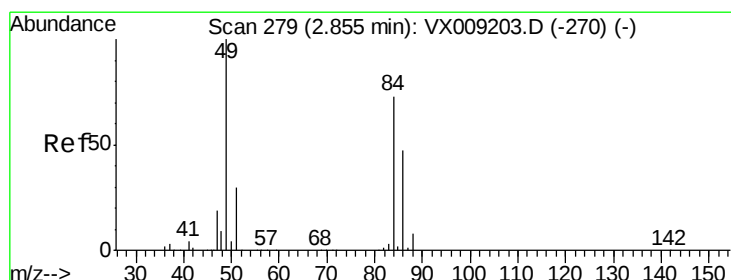
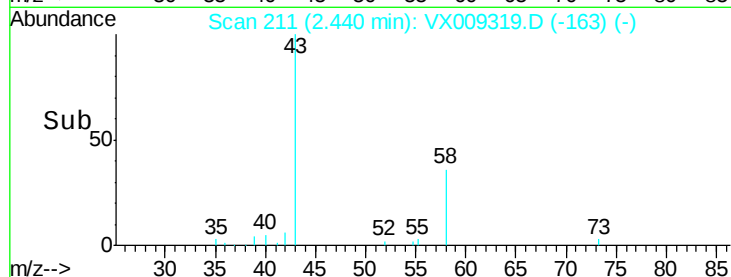
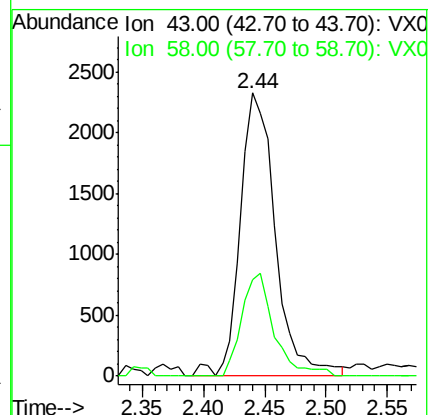
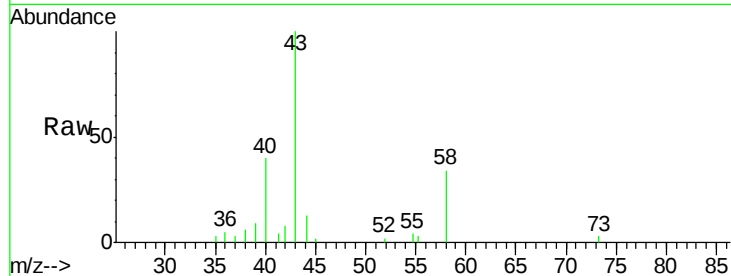
Z5-TB04-190430

Tot Ion: 43 Resp: 4656

Ion Ratio Lower Upper

43 100

58 34.2 24.9 37.3



#20

Methylene Chloride

Concen: 0.427 ug/l

RT: 2.85 min Scan# 278

Delta R.T. -0.01 min

Lab File: VX009319.D

Acq: 03 May 2019 19:00

Tgt Ion: 84 Resp: 979

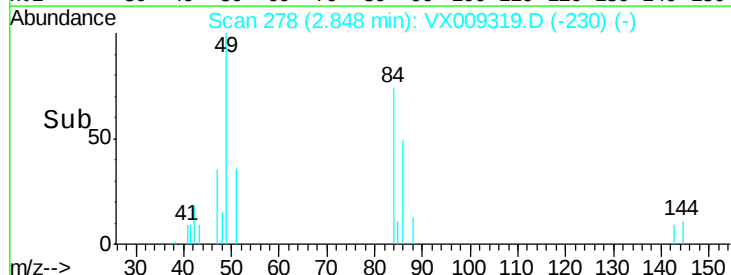
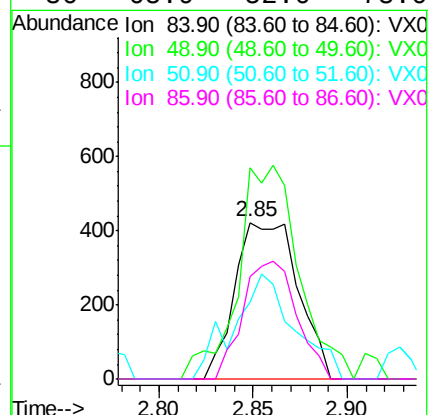
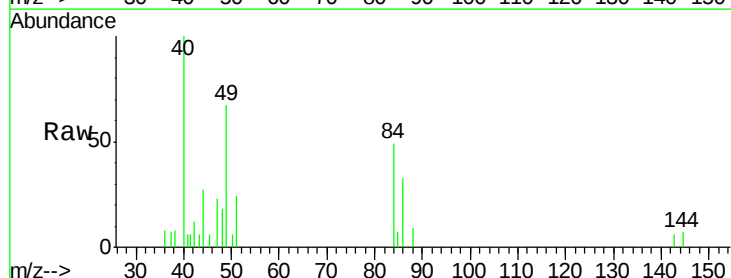
Ion Ratio Lower Upper

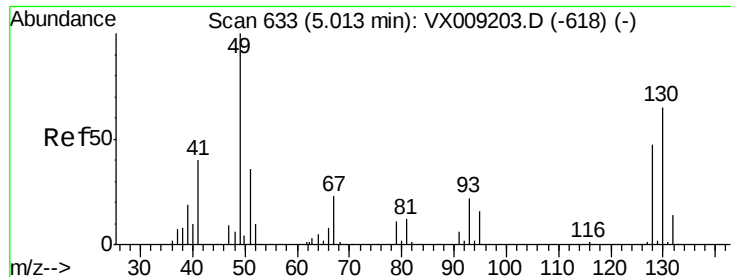
84 100

49 120.1 109.9 164.9

51 49.1 32.7 49.1

86 65.9 52.0 78.0





#28

Bromochloromethane

Concen: Below Cal

RT: 4.99 min Scan# 630

Delta R.T. -0.02 min

Lab File: VX009319.D

Acq: 03 May 2019 19:00

Instrument :

MSVOA_X

ClientSampleId :

Z5-TB04-190430

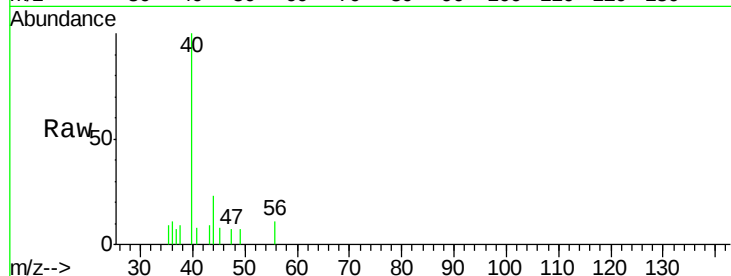
Tot Ion: 49 Resp: 41

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

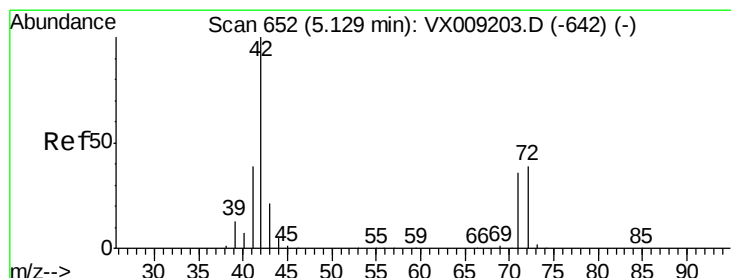
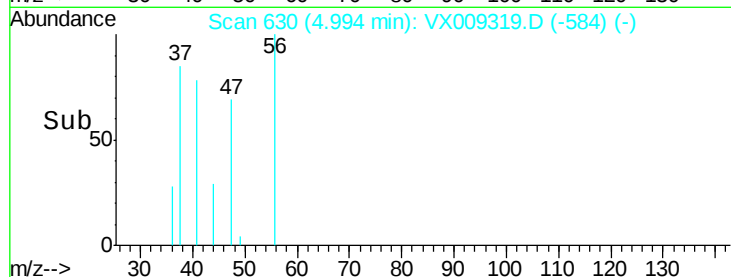
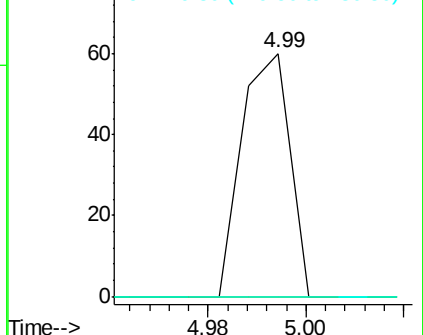
130 0.0 51.2 76.8#



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



#29

Tetrahydrofuran

Concen: 0.867 ug/l

RT: 5.15 min Scan# 655

Delta R.T. 0.02 min

Lab File: VX009319.D

Acq: 03 May 2019 19:00

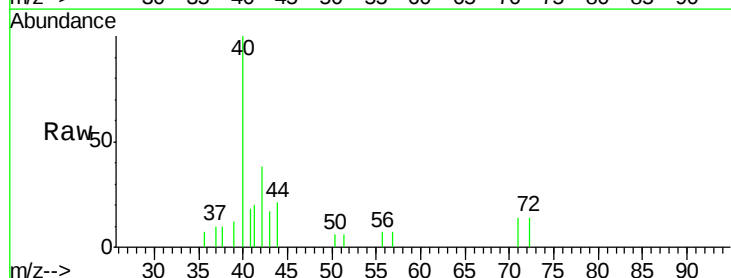
Tgt Ion: 42 Resp: 1228

Ion Ratio Lower Upper

42 100

72 20.4 30.4 45.6#

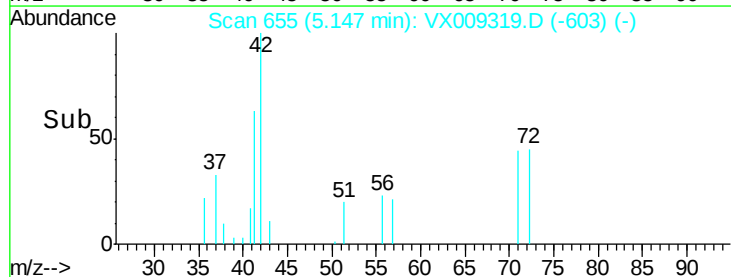
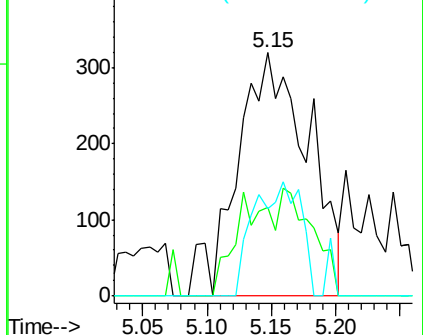
71 31.2 28.6 43.0

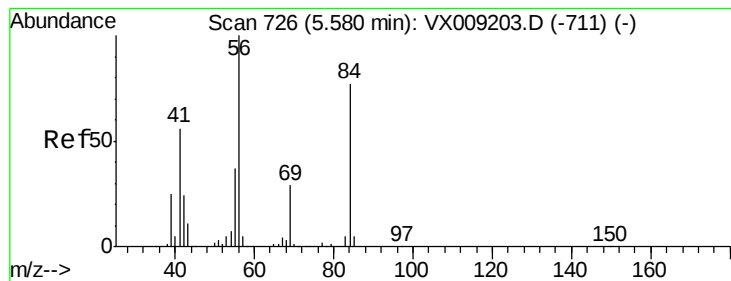


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.067 ug/l

RT: 5.66 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX009319.D

Acq: 03 May 2019 19:00

Instrument :

MSVOA_X

ClientSampleId :

Z5-TB04-190430

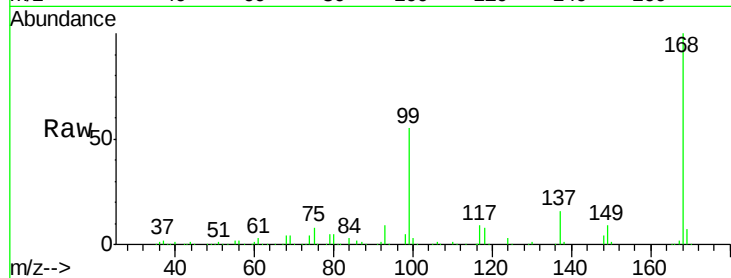
Tot Ion: 56 Resp: 4161

Ion Ratio Lower Upper

56 100

69 184.5 23.4 35.0#

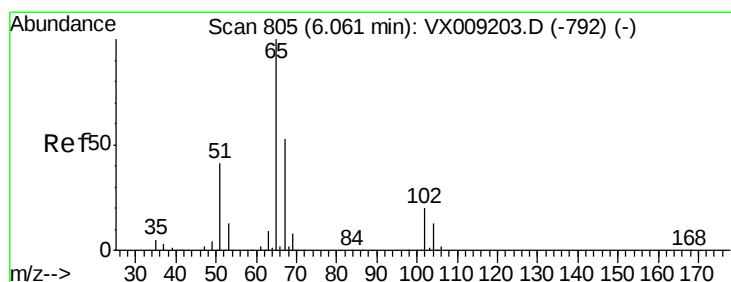
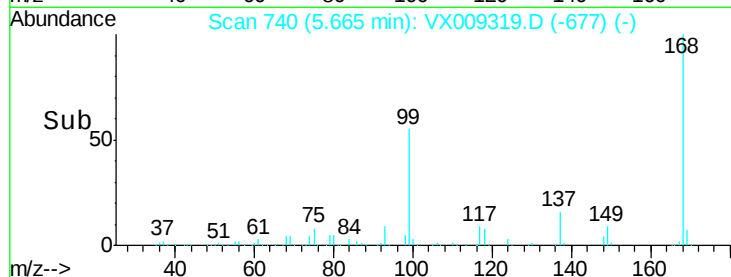
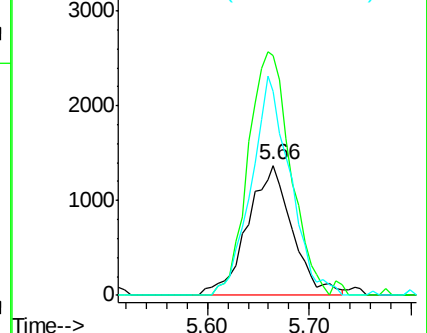
84 157.2 61.9 92.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.430 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX009319.D

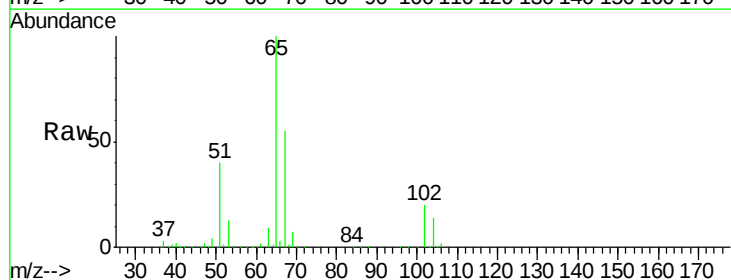
Acq: 03 May 2019 19:00

Tgt Ion: 65 Resp: 127694

Ion Ratio Lower Upper

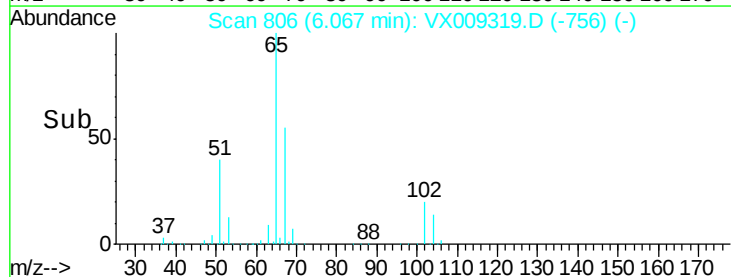
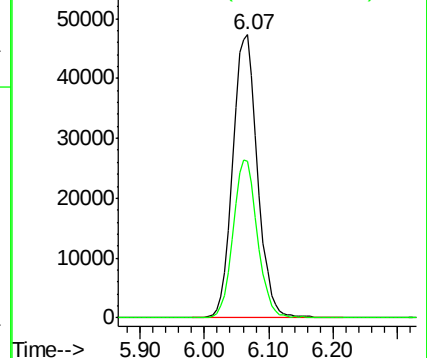
65 100

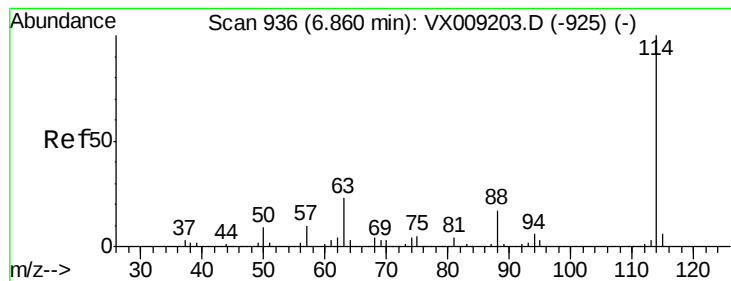
67 54.7 0.0 106.6



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: VX009319.D

Acq: 03 May 2019 19:00

Instrument :

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Z5-TB04-190430

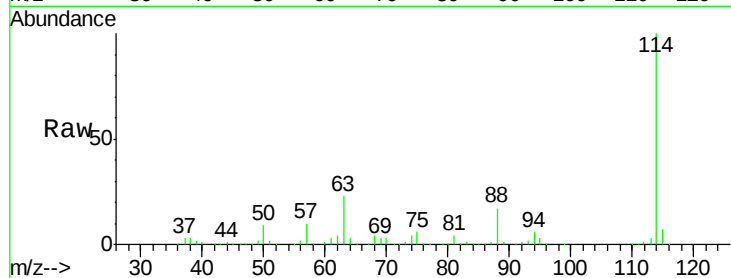
Tot Ion:114 Resp: 308579

Ion Ratio Lower Upper

114 100

63 23.2 0.0 45.6

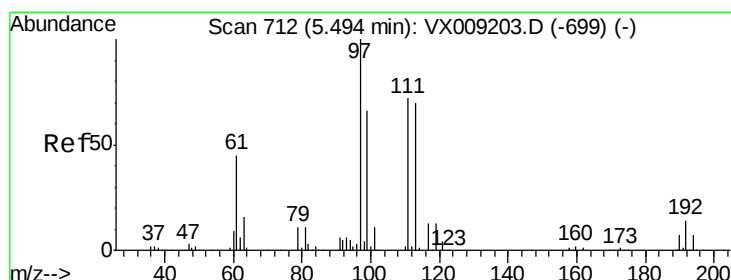
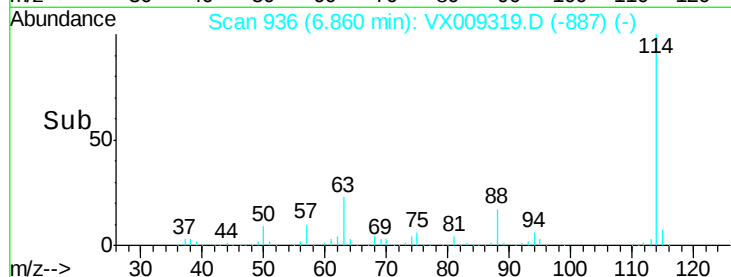
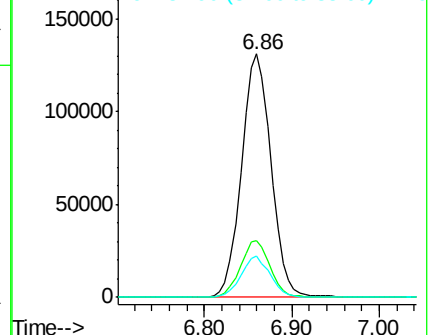
88 16.9 0.0 33.2



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: 49.245 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX009319.D

Acq: 03 May 2019 19:00

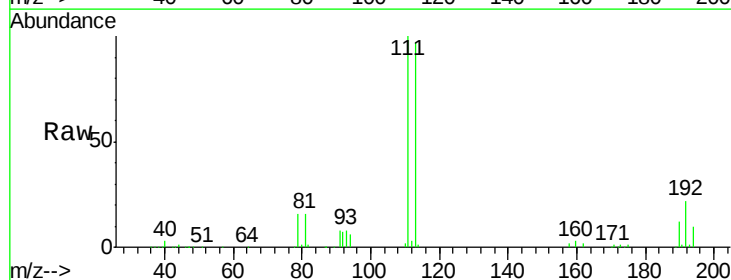
Tgt Ion:113 Resp: 95527

Ion Ratio Lower Upper

113 100

111 101.8 82.8 124.2

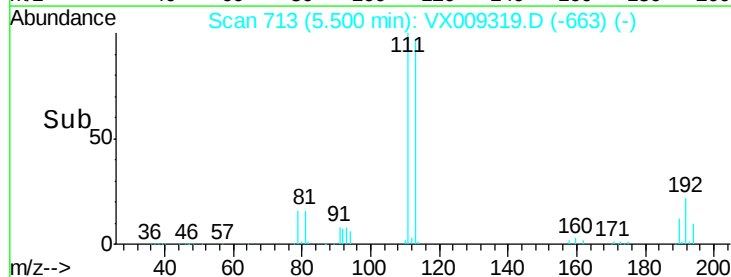
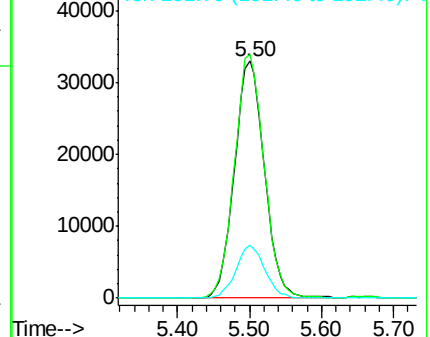
192 21.5 17.0 25.6

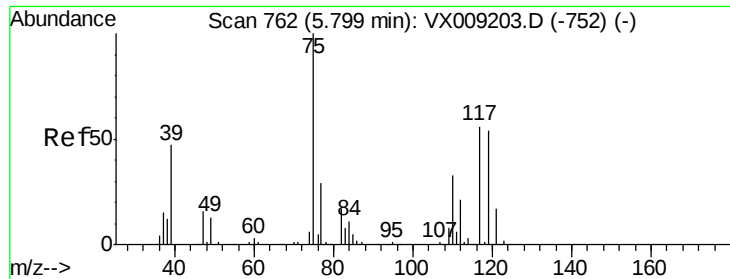


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

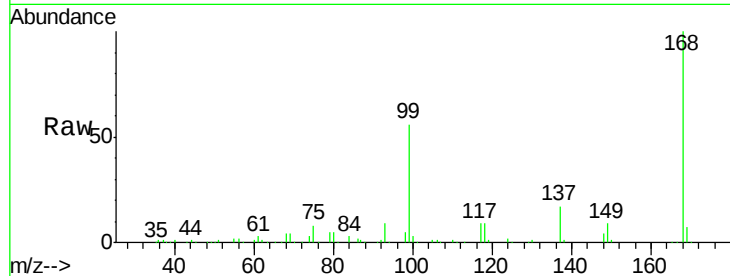




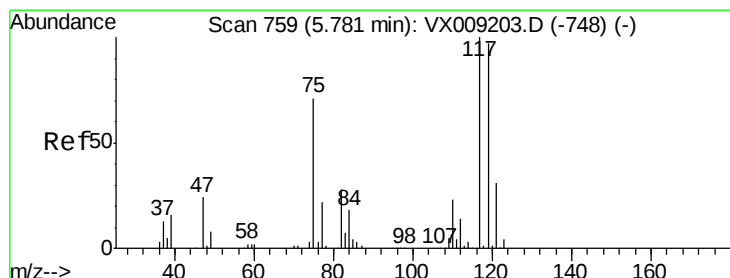
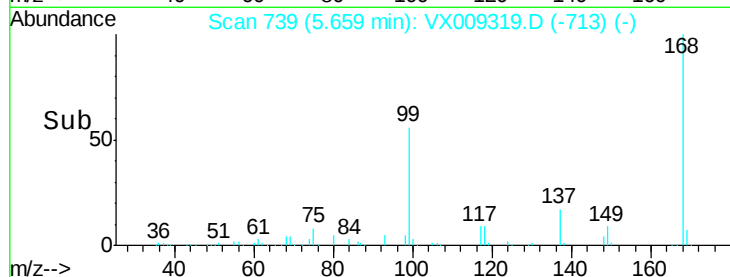
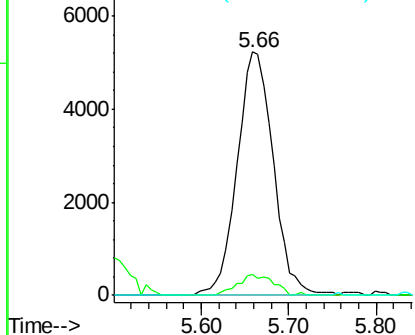
#36
 1,1-Dichloropropene
 Concen: 5.243 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009319.D
 Acq: 03 May 2019 19:00

Instrument :
 MSVOA_X
 ClientSampleId :
 Z5-TB04-190430

Tot Ion: 75 Resp: 15034
 Ion Ratio Lower Upper
 75 100
 110 8.5 16.9 50.6#
 77 0.0 24.8 37.2#

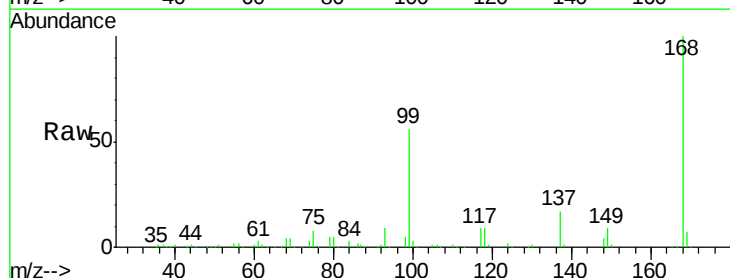


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

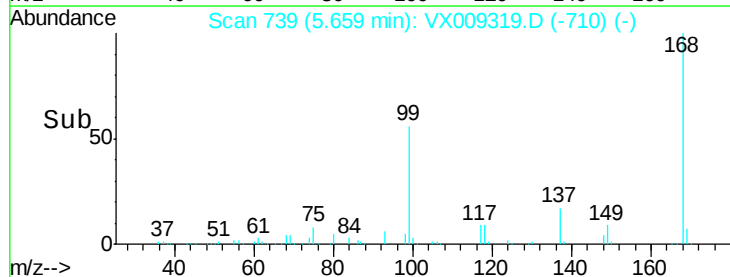
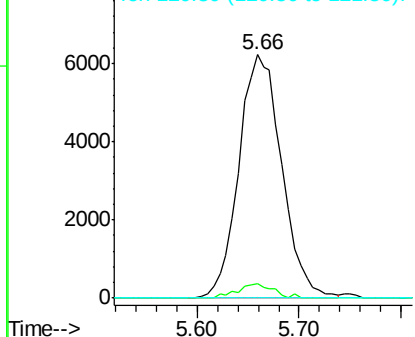


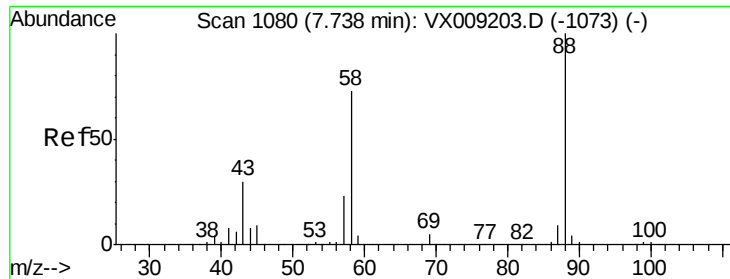
#38
 Carbon Tetrachloride
 Concen: 6.949 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX009319.D
 Acq: 03 May 2019 19:00

Tgt Ion: 117 Resp: 18106
 Ion Ratio Lower Upper
 117 100
 119 6.1 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: 0.373 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.01 min

Lab File: VX009319.D

Acq: 03 May 2019 19:00

Instrument :

MSVOA_X

ClientSampleId :

Z5-TB04-190430

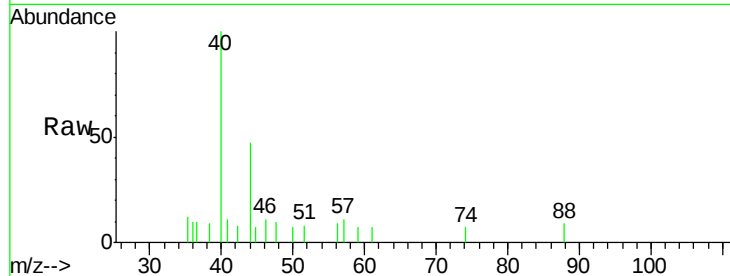
Tot Ion: 88 Resp: 24

Ion Ratio Lower Upper

88 100

43 500.0 28.6 42.8#

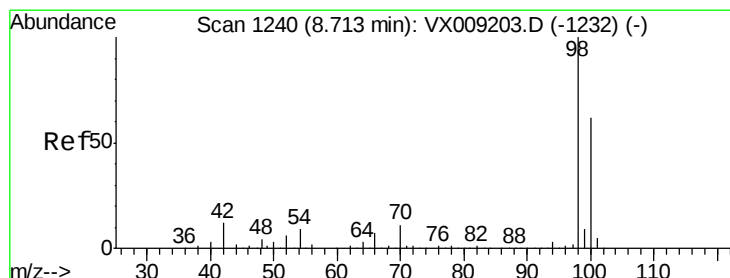
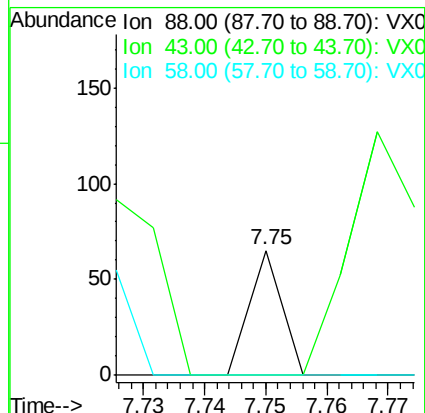
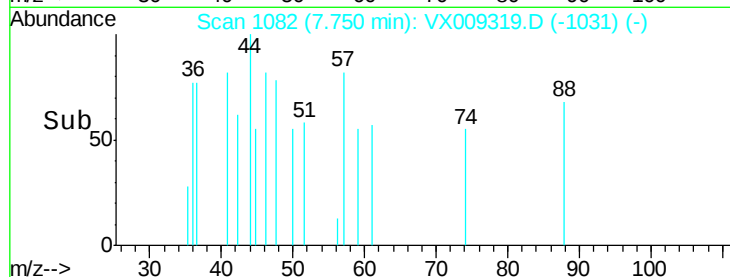
58 0.0 61.7 92.5#



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: 49.060 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009319.D

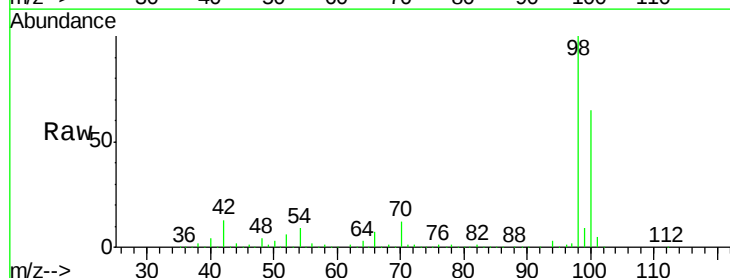
Acq: 03 May 2019 19:00

Tgt Ion: 98 Resp: 384220

Ion Ratio Lower Upper

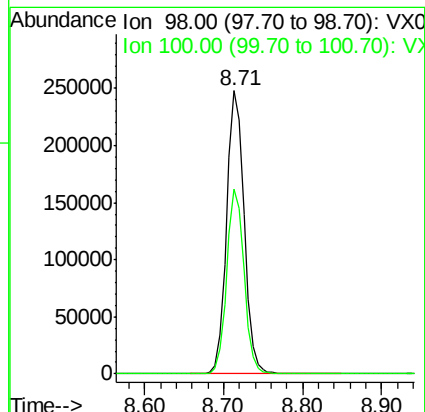
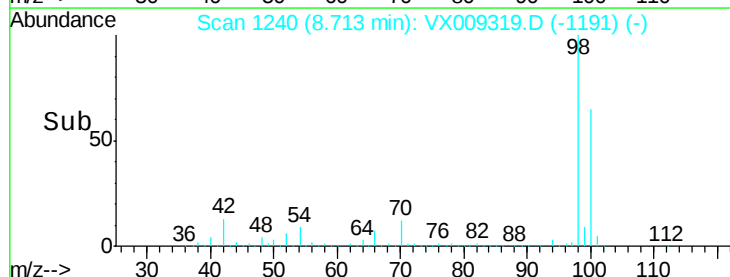
98 100

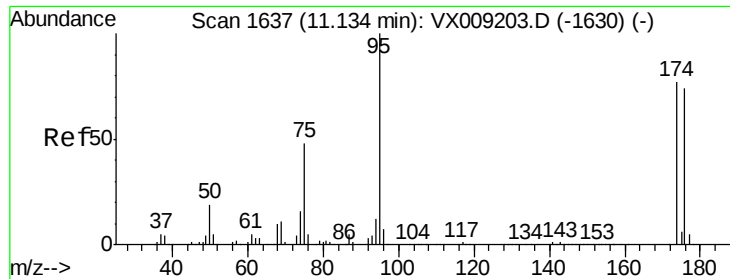
100 64.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

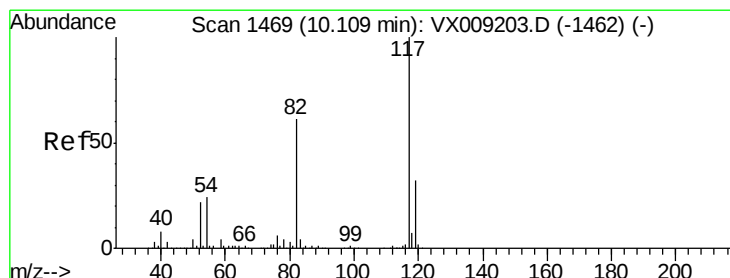
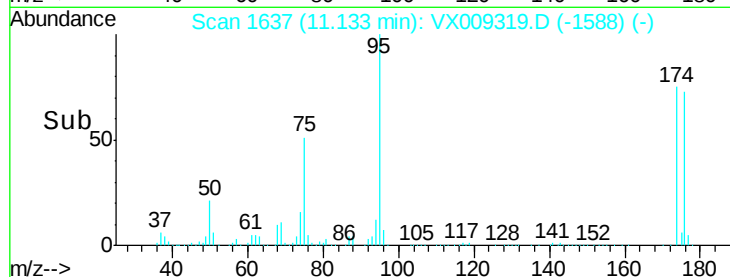
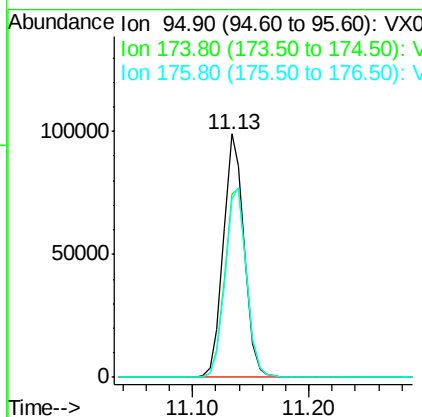
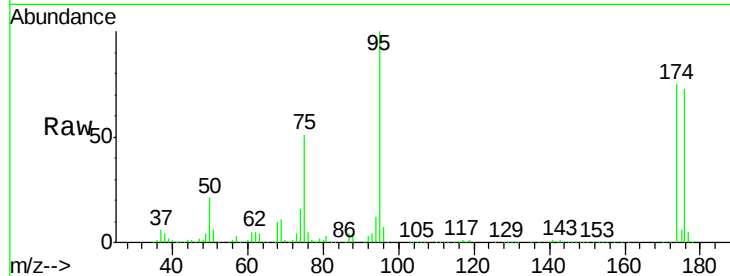




#62
4-Bromofluorobenzene
Concen: 42.855 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX009319.D
Acq: 03 May 2019 19:00

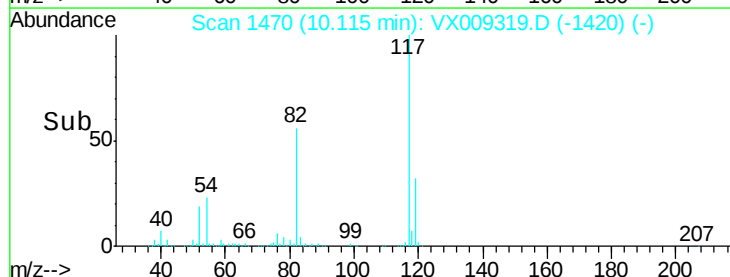
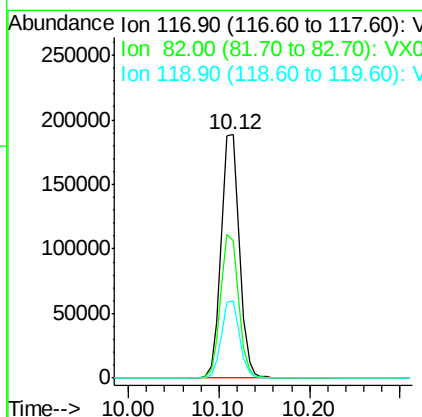
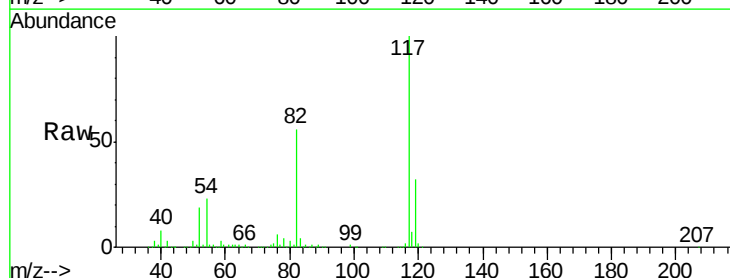
Instrument :
MSVOA_X
ClientSampleId :
Z5-TB04-190430

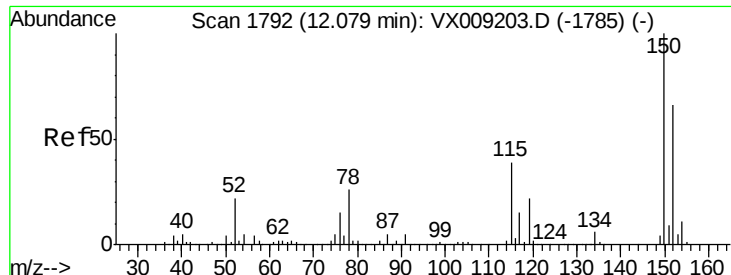
Tot Ion: 95 Resp: 121953
Ion Ratio Lower Upper
95 100
174 81.5 0.0 161.6
176 79.4 0.0 159.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX009319.D
Acq: 03 May 2019 19:00

Tgt Ion: 117 Resp: 266471
Ion Ratio Lower Upper
117 100
82 56.4 48.8 73.2
119 31.5 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX009319.D

Acq: 03 May 2019 19:00

Instrument :

MSVOA_X

ClientSampleId :

Z5-TB04-190430

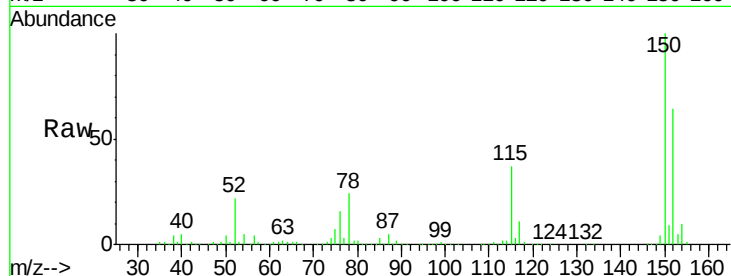
Tot Ion:152 Resp: 104967

Ion Ratio Lower Upper

152 100

115 59.1 41.2 123.6

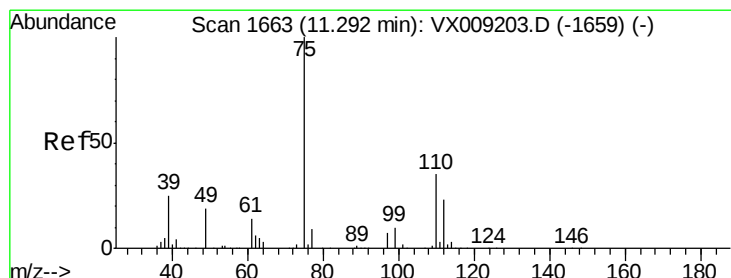
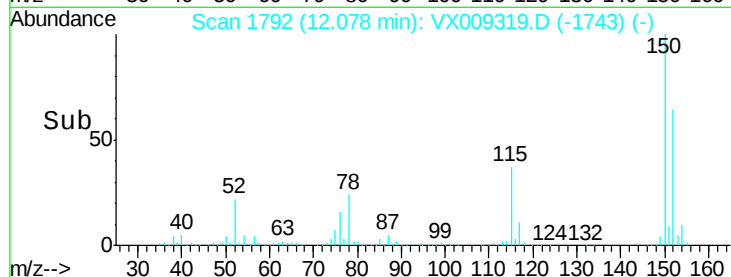
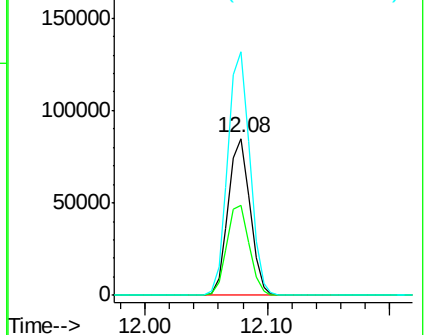
150 156.5 0.0 346.4



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: 25.648 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009319.D

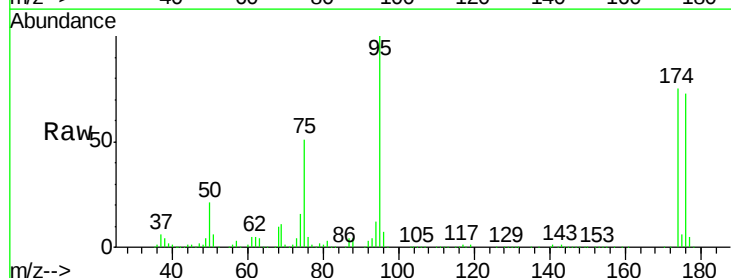
Acq: 03 May 2019 19:00

Tgt Ion: 75 Resp: 62450

Ion Ratio Lower Upper

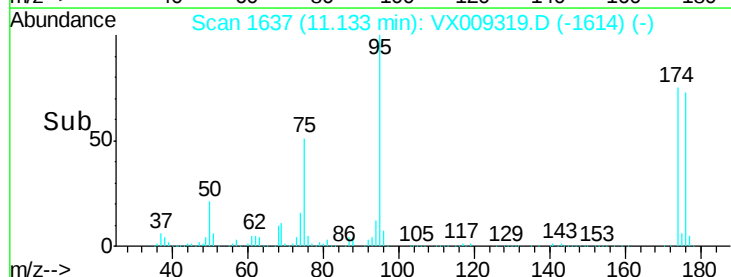
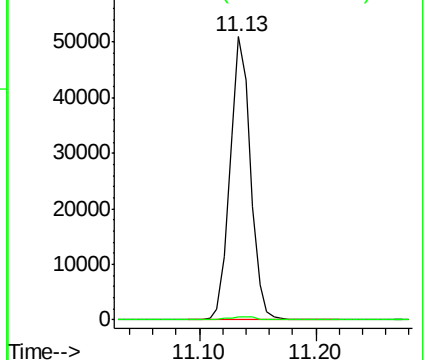
75 100

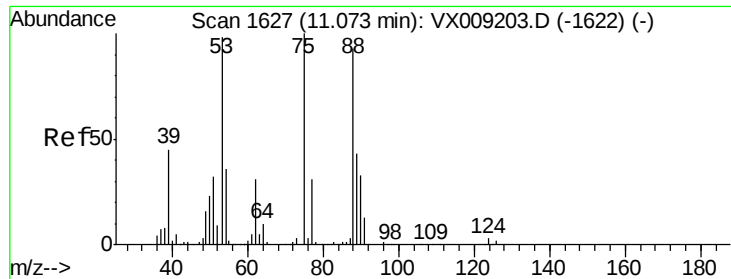
77 1.5 22.1 66.1#



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: 65.625 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009319.D

Acq: 03 May 2019 19:00

Instrument :

MSVOA_X

ClientSampleId :

Z5-TB04-190430

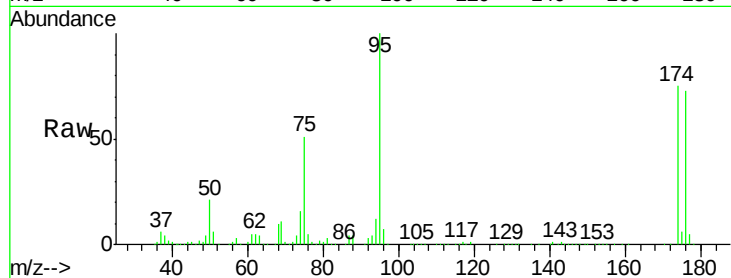
Tot Ion: 75 Resp: 62450

Ion Ratio Lower Upper

75 100

53 0.1 79.0 118.6#

89 0.0 34.7 52.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

