

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\WX042919\
 Data File : VX009214.D
 Acq On : 29 Apr 2019 17:56
 Operator : JC/SP
 Sample : K2594-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WP021MW348-190423

Quant Time: Apr 30 07:18:42 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	213067	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	344396	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	300085	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	128990	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	140457	48.29	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.58%	
35) Dibromofluoromethane	5.50	113	103171	47.65	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.30%	
50) Toluene-d8	8.71	98	431452	49.36	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.72%	
62) 4-Bromofluorobenzene	11.13	95	143690	45.24	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.48%	

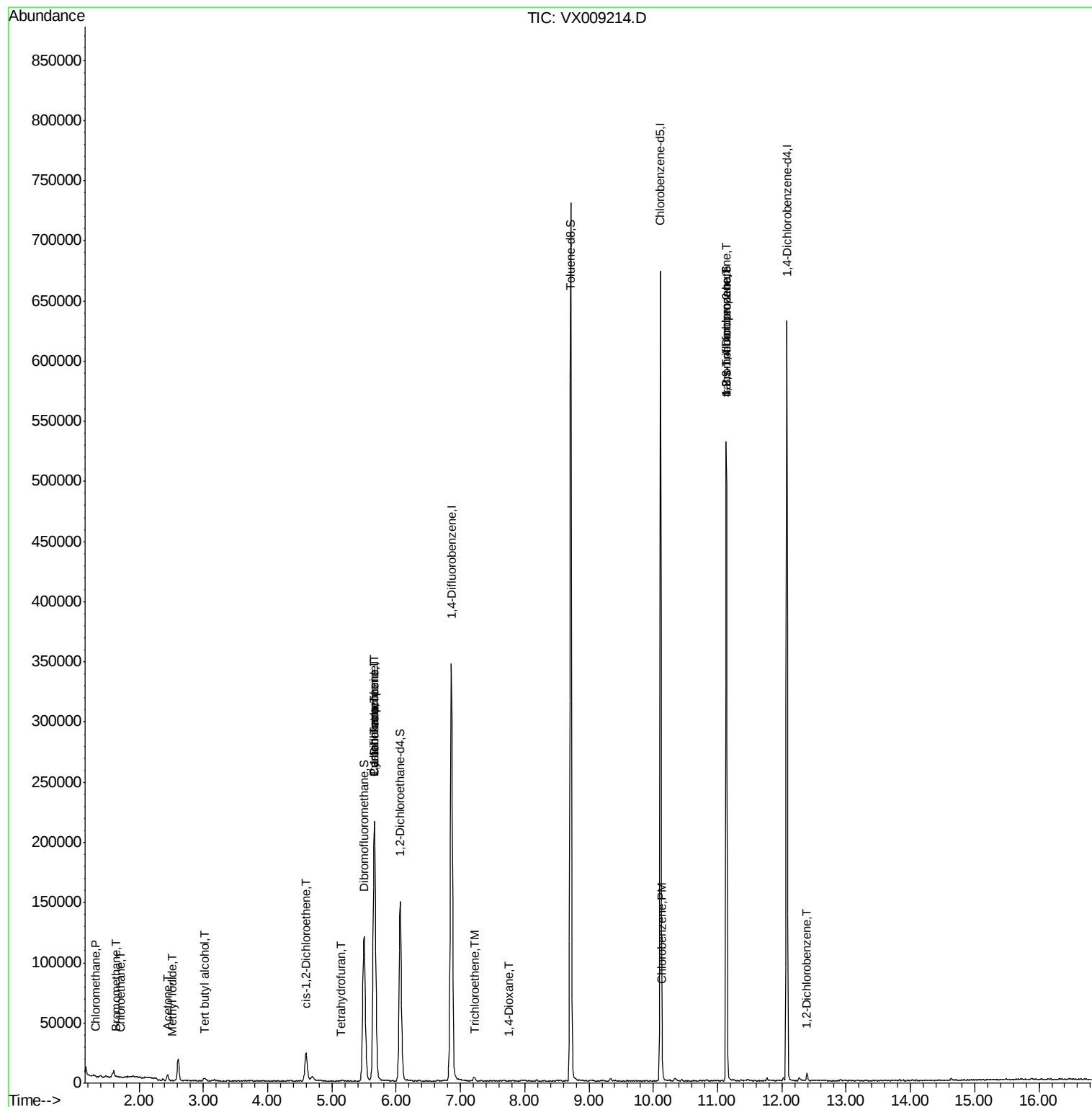
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	713	0.266	ug/l #	77
5) Bromomethane	1.64	94	416	0.265	ug/l #	66
6) Chloroethane	1.71	64	405	0.241	ug/l	97
10) Methyl Iodide	2.52	142	254	4.693	ug/l #	66
11) Tert butyl alcohol	3.01	59	2140	3.178	ug/l #	73
16) Acetone	2.44	43	6299	4.033	ug/l	90
27) cis-1,2-Dichloroethene	4.60	96	14380	5.557	ug/l	90
28) Bromochloromethane	4.99	49	25	Below Cal	#	20
29) Tetrahydrofuran	5.15	42	471	0.302	ug/l #	46
31) Cyclohexane	5.66	56	4860	1.130	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	17085	5.338	ug/l #	50
38) Carbon Tetrachloride	5.66	117	19417	6.677	ug/l #	15
44) Trichloroethene	7.23	130	1042	0.435	ug/l	82
49) 1,4-Dioxane	7.76	88	19	0.265	ug/l #	20
65) Chlorobenzene	10.14	112	2972	0.495	ug/l	90
76) 1,2,3-Trichloropropane	11.13	75	72482	24.224	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	72482	61.982	ug/l #	10
91) 1,2-Dichlorobenzene	12.39	146	1828	0.432	ug/l	96

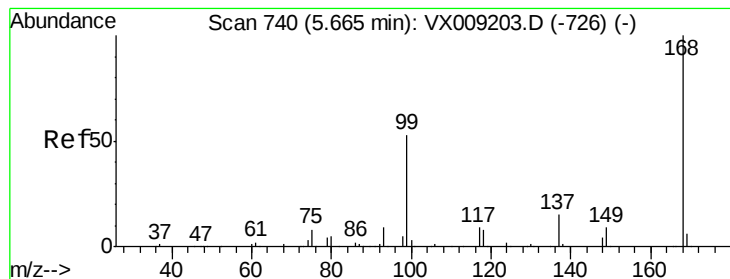
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Apr 30 07:03:50 2019
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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: VX009214.D

Acq: 29 Apr 2019 17:56

Instrument :

MSVOA_X

ClientSampleId :

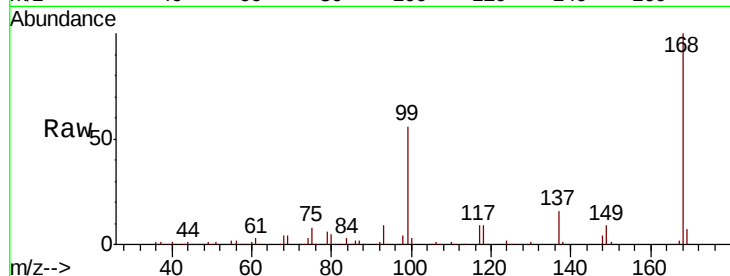
WP021MW348-190423

Tgt Ion:168 Resp: 213067

Ion Ratio Lower Upper

168 100

99 55.7 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

80000

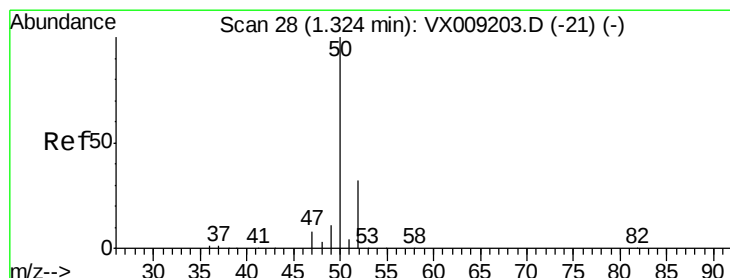
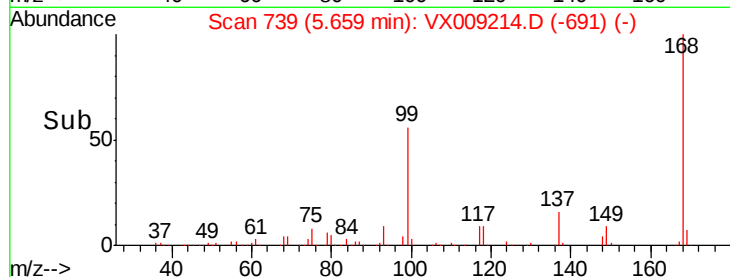
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.266 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX009214.D

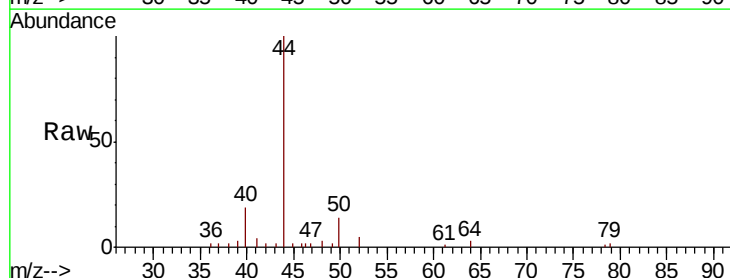
Acq: 29 Apr 2019 17:56

Tgt Ion: 50 Resp: 713

Ion Ratio Lower Upper

50 100

52 19.7 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

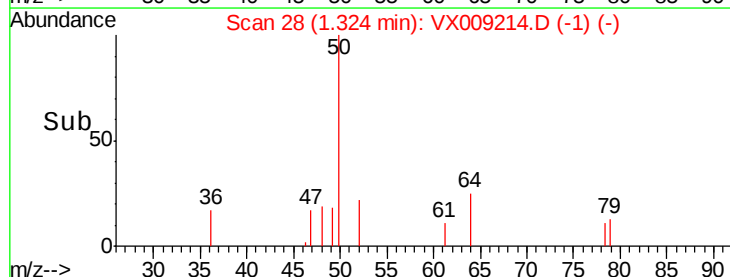
300

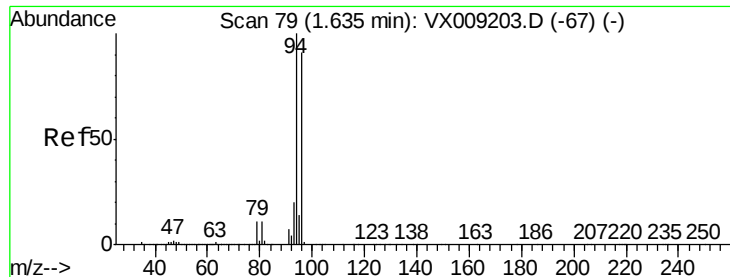
200

100

0

Time--> 1.25 1.30 1.35





#5

Bromomethane

Concen: 0.265 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX009214.D

Acq: 29 Apr 2019 17:56

Instrument :

MSVOA_X

ClientSampleId :

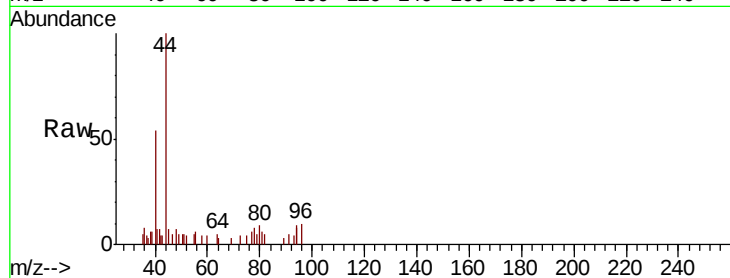
WP021MW348-190423

Tgt Ion: 94 Resp: 416

Ion Ratio Lower Upper

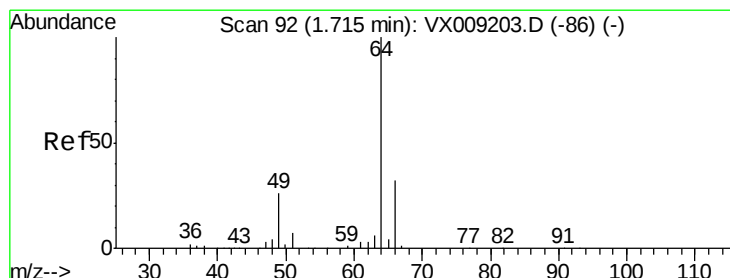
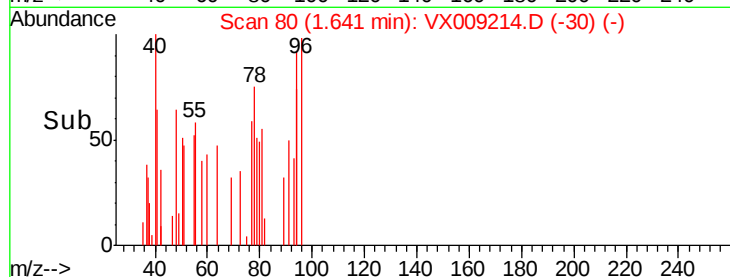
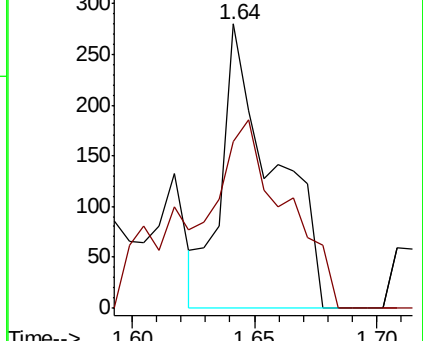
94 100

96 58.6 73.0 109.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.241 ug/l

RT: 1.71 min Scan# 92

Delta R.T. -0.00 min

Lab File: VX009214.D

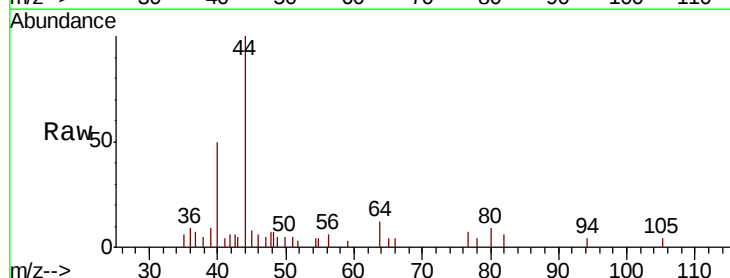
Acq: 29 Apr 2019 17:56

Tgt Ion: 64 Resp: 405

Ion Ratio Lower Upper

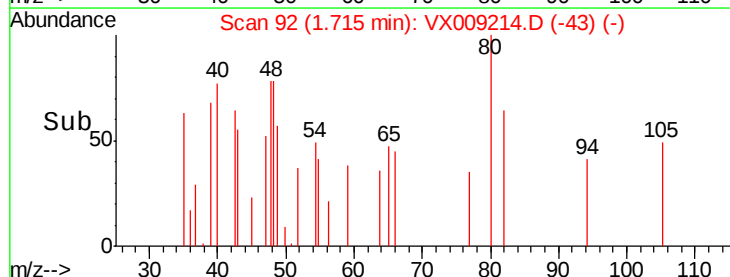
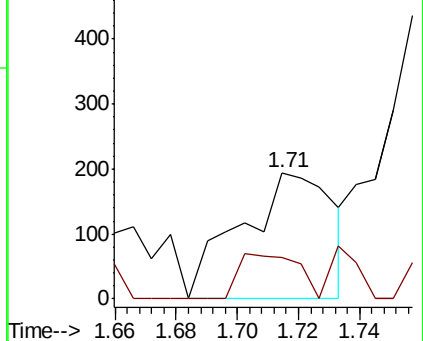
64 100

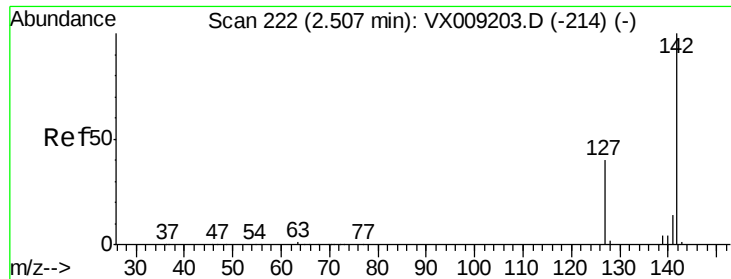
66 33.0 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

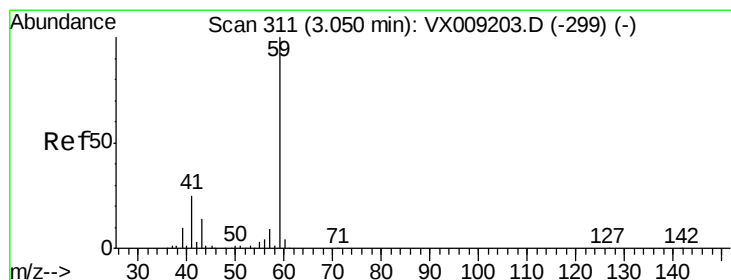
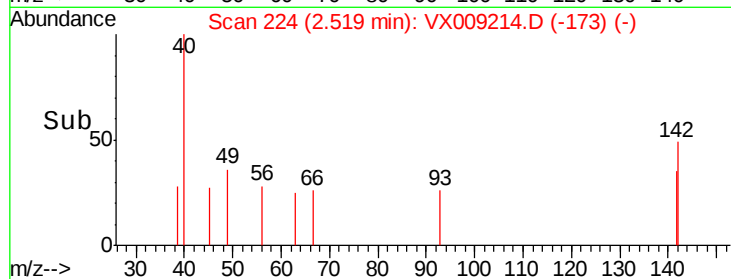
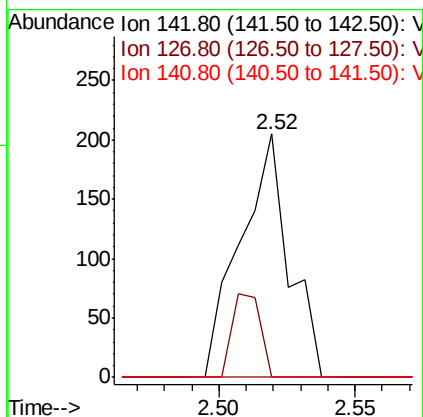
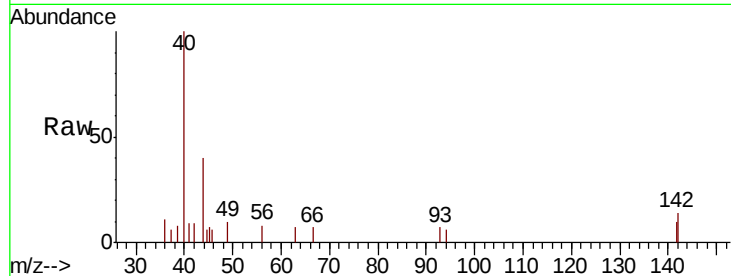




#10
Methyl Iodide
Concen: 4.693 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX009214.D
Acq: 29 Apr 2019 17:56

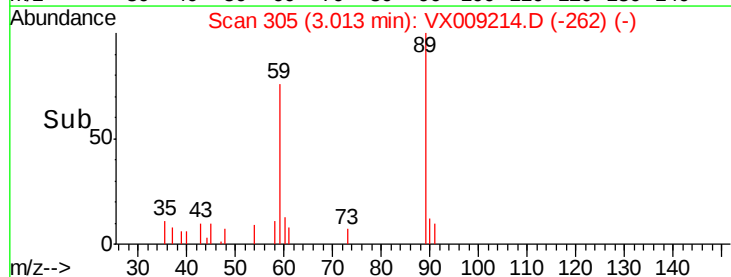
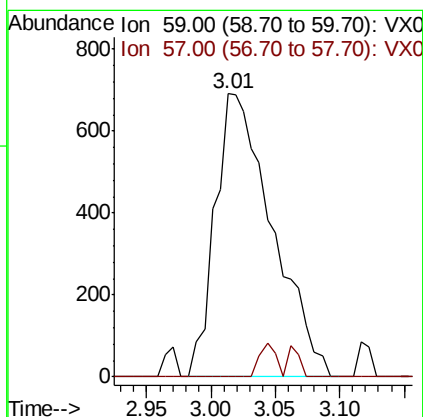
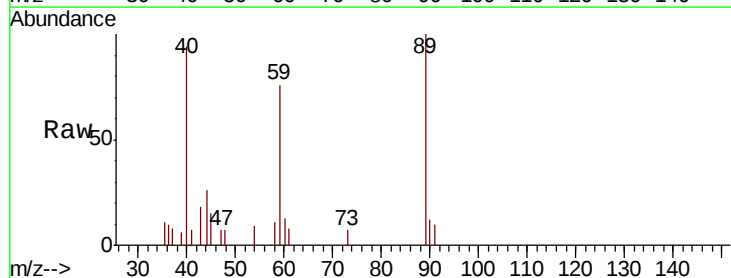
Instrument :
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WP021MW348-190423

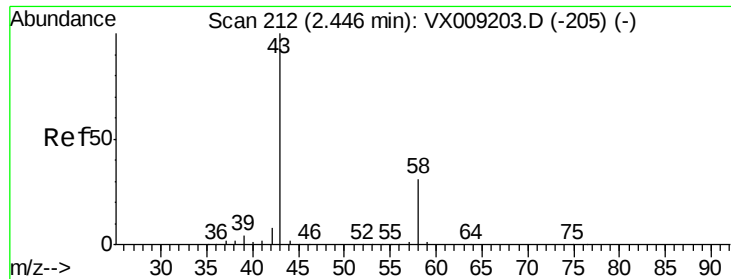
Tgt Ion:142 Resp: 254
Ion Ratio Lower Upper
142 100
127 19.7 32.7 49.1#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 3.178 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX009214.D
Acq: 29 Apr 2019 17:56

Tgt Ion: 59 Resp: 2140
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

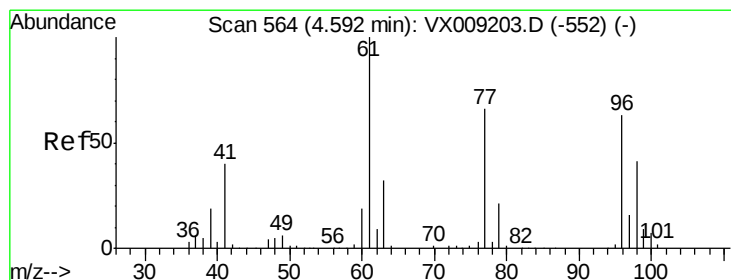
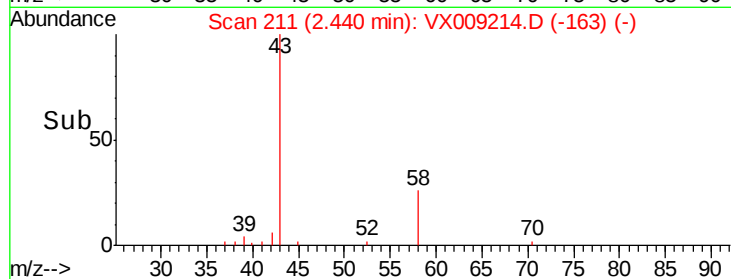
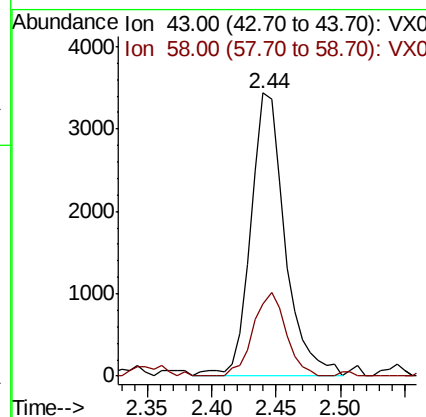
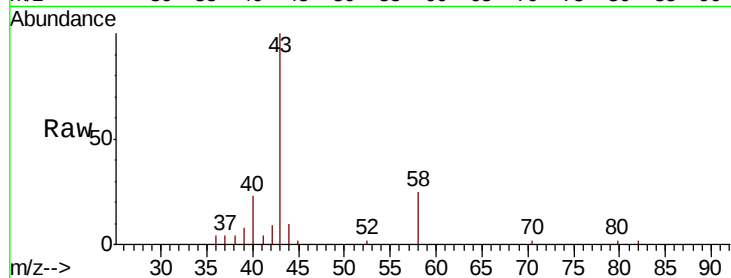




#16
Acetone
Concen: 4.033 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX009214.D
Acq: 29 Apr 2019 17:56

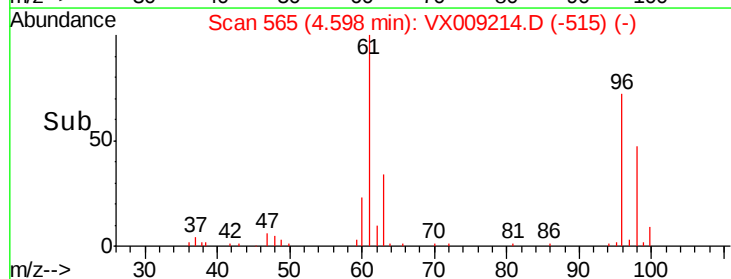
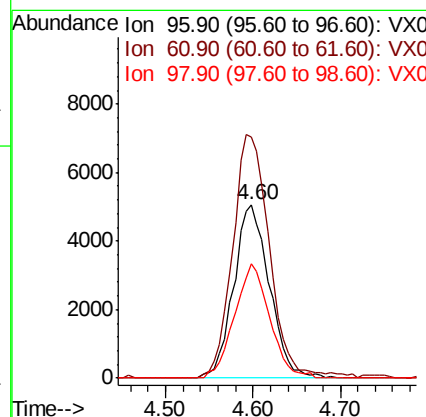
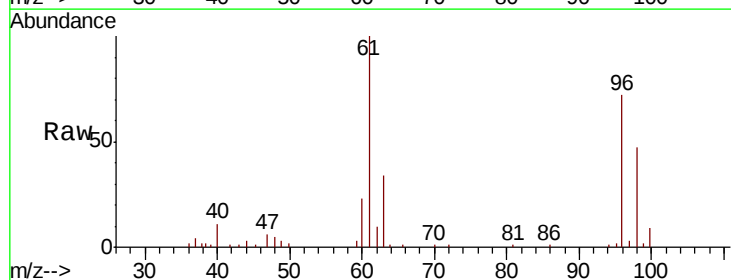
Instrument :
MSVOA_X
ClientSampleId :
WP021MW348-190423

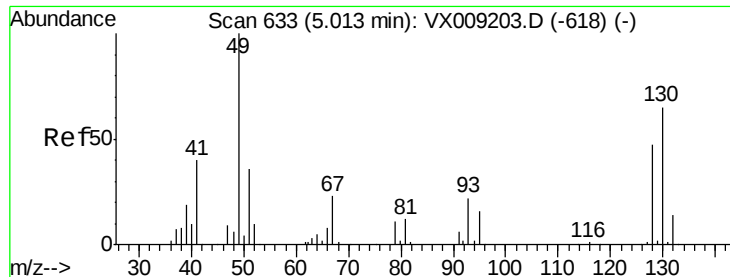
Tgt Ion: 43 Resp: 6299
Ion Ratio Lower Upper
43 100
58 25.5 24.9 37.3



#27
cis-1,2-Dichloroethene
Concen: 5.557 ug/l
RT: 4.60 min Scan# 565
Delta R.T. 0.01 min
Lab File: VX009214.D
Acq: 29 Apr 2019 17:56

Tgt Ion: 96 Resp: 14380
Ion Ratio Lower Upper
96 100
61 143.8 0.0 324.0
98 64.7 0.0 130.4





#28

Bromochloromethane

Concen: Below Cal

RT: 4.99 min Scan# 630

Delta R.T. -0.02 min

Lab File: VX009214.D

Acq: 29 Apr 2019 17:56

Instrument :

MSVOA_X

ClientSampleId :

WP021MW348-190423

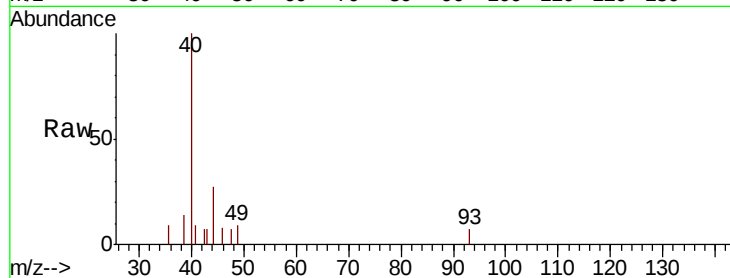
Tgt Ion: 49 Resp: 25

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

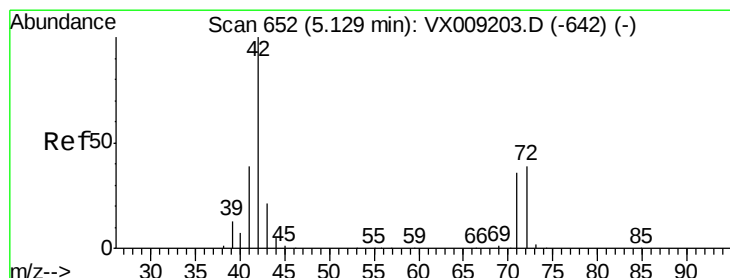
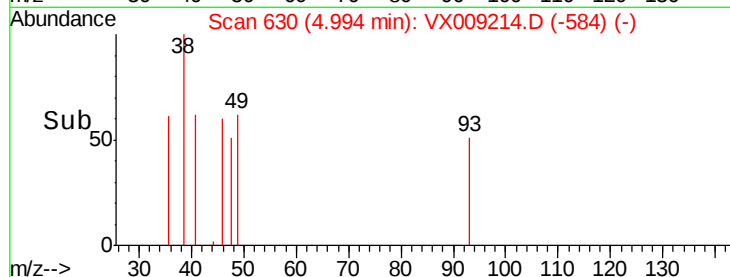
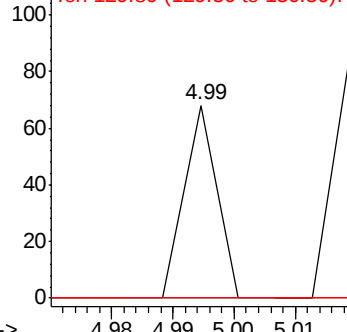
130 0.0 51.2 76.8#



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: 0.302 ug/l

RT: 5.15 min Scan# 655

Delta R.T. 0.02 min

Lab File: VX009214.D

Acq: 29 Apr 2019 17:56

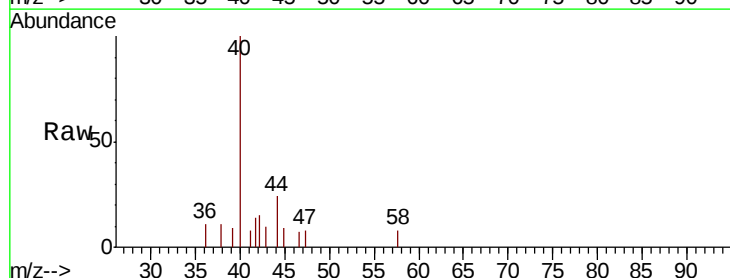
Tgt Ion: 42 Resp: 471

Ion Ratio Lower Upper

42 100

72 4.9 30.4 45.6#

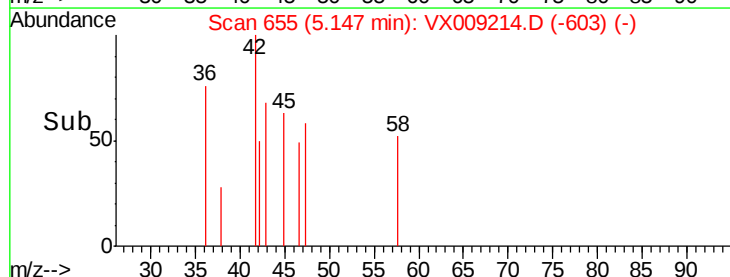
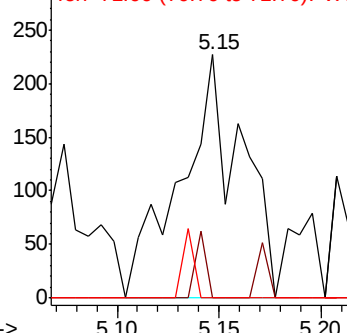
71 5.1 28.6 43.0#

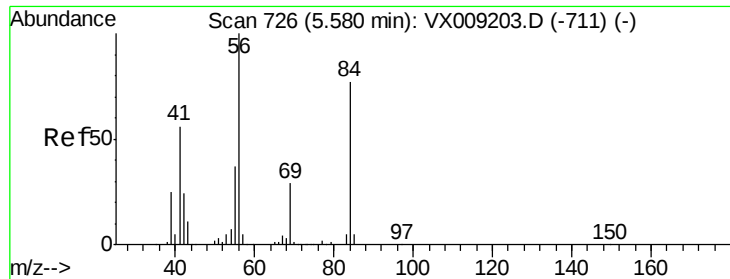


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

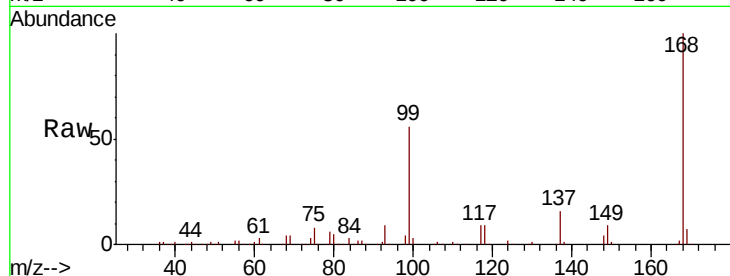




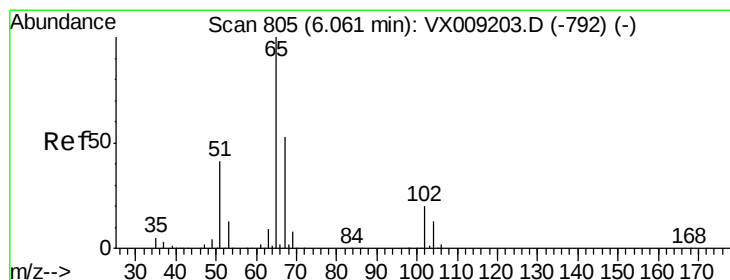
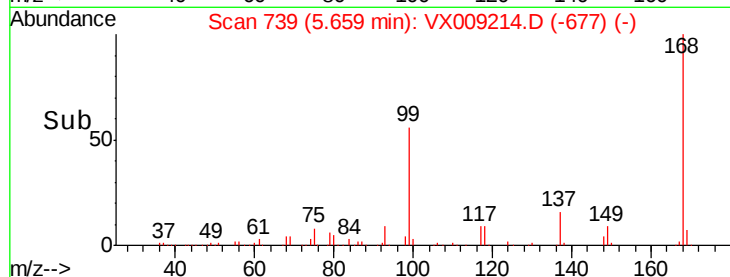
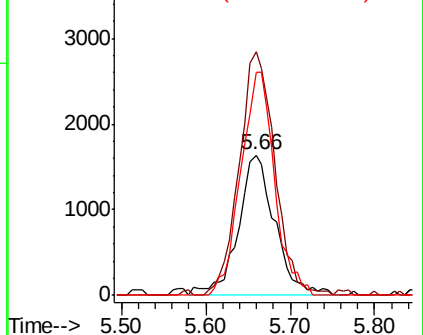
#31
Cyclohexane
Concen: 1.130 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX009214.D
Acq: 29 Apr 2019 17:56

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Tgt Ion: 56 Resp: 4860
Ion Ratio Lower Upper
56 100
69 170.1 23.4 35.0#
84 159.4 61.9 92.9#

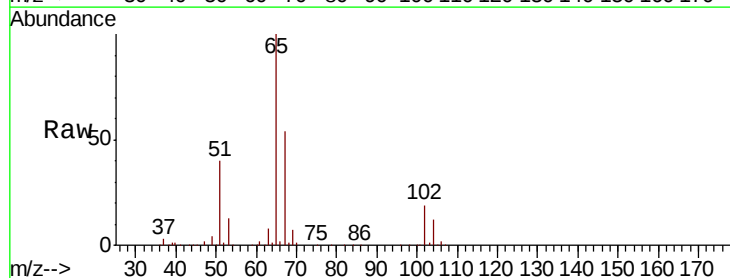


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

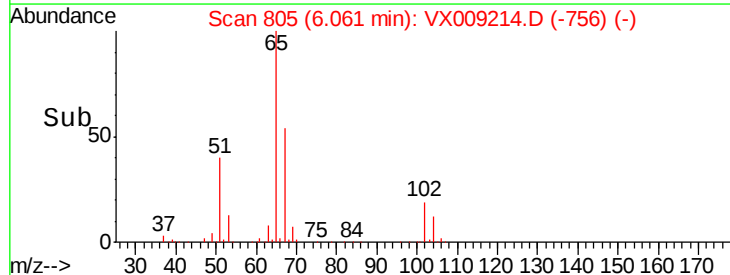
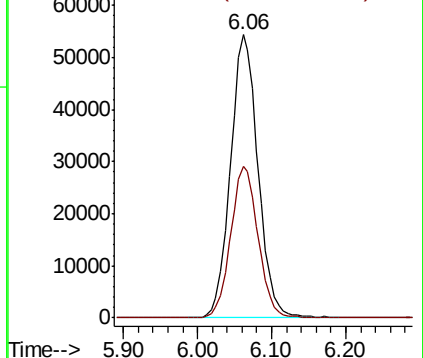


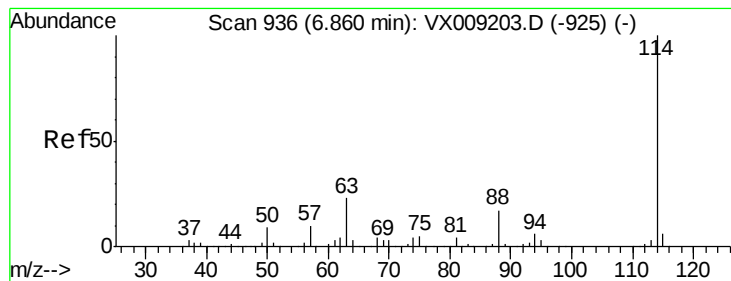
#33
1,2-Dichloroethane-d4
Concen: 48.290 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX009214.D
Acq: 29 Apr 2019 17:56

Tgt Ion: 65 Resp: 140457
Ion Ratio Lower Upper
65 100
67 53.5 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: VX009214.D

Acq: 29 Apr 2019 17:56

Instrument :

MSVOA_X

ClientSampleId :

WP021MW348-190423

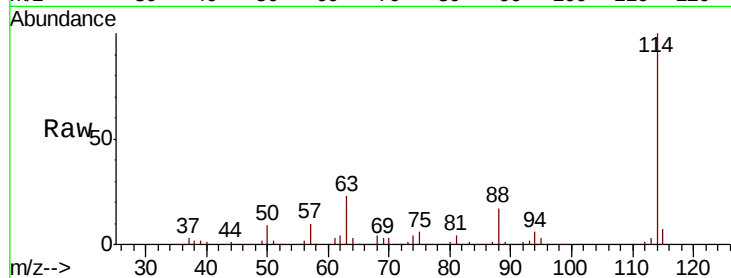
Tgt Ion:114 Resp: 344396

Ion Ratio Lower Upper

114 100

63 23.1 0.0 45.6

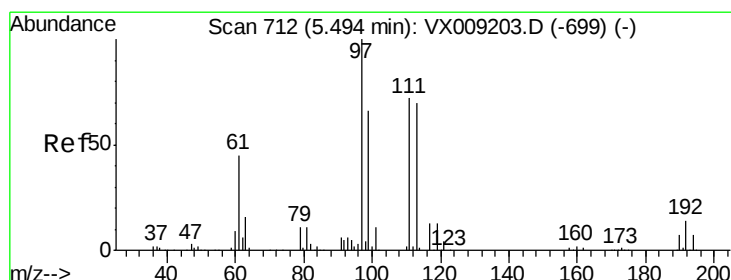
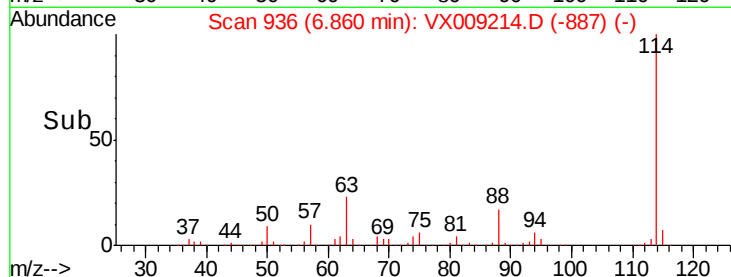
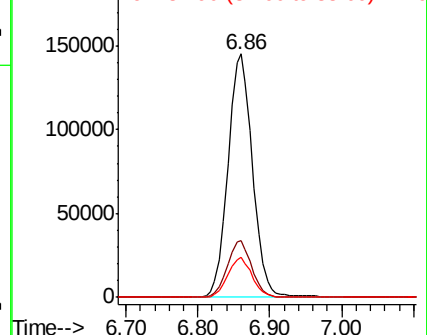
88 16.6 0.0 33.2



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: 47.654 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX009214.D

Acq: 29 Apr 2019 17:56

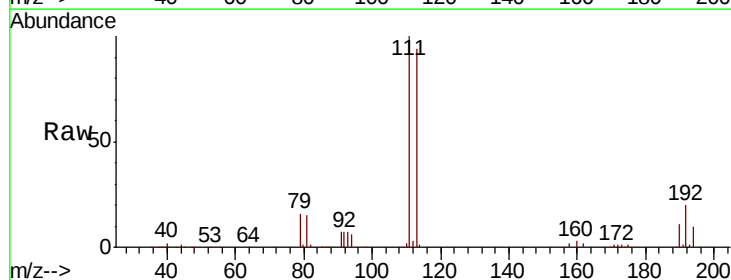
Tgt Ion:113 Resp: 103171

Ion Ratio Lower Upper

113 100

111 104.0 82.8 124.2

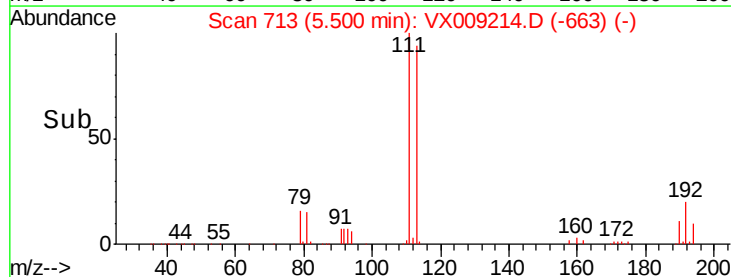
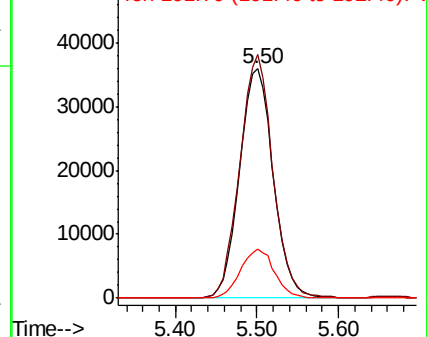
192 21.6 17.0 25.6

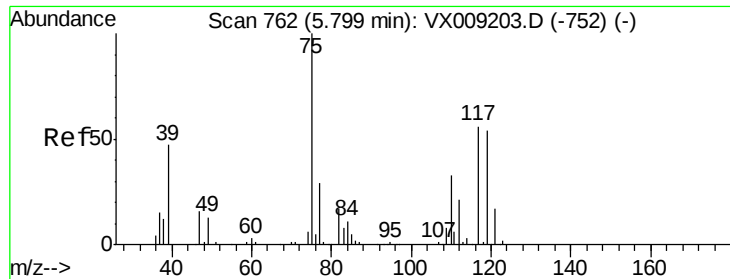


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.338 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009214.D

Acq: 29 Apr 2019 17:56

Instrument :

MSVOA_X

ClientSampleId :

WP021MW348-190423

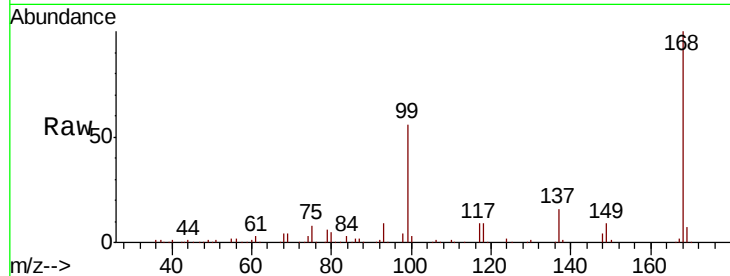
Tgt Ion: 75 Resp: 17085

Ion Ratio Lower Upper

75 100

110 8.6 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

8000

6000

4000

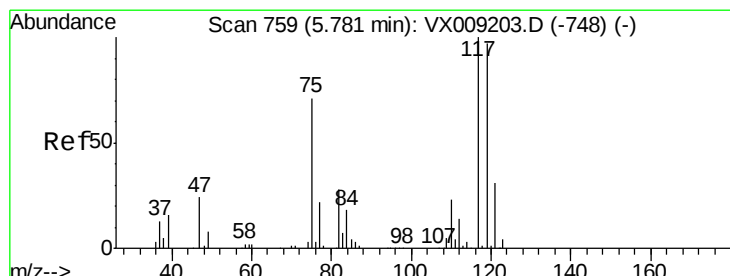
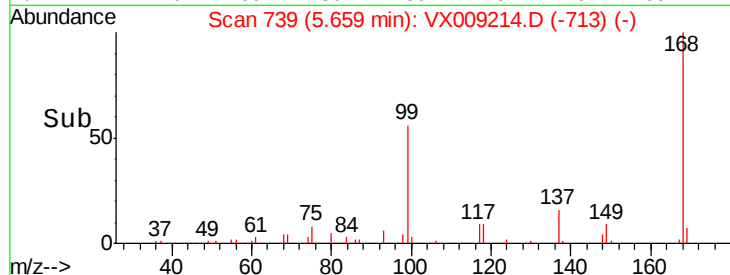
2000

0

5.66

5.60 5.70 5.80

Time-->



#38

Carbon Tetrachloride

Concen: 6.677 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009214.D

Acq: 29 Apr 2019 17:56

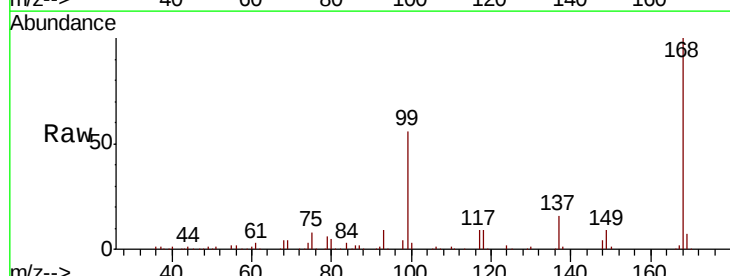
Tgt Ion: 117 Resp: 19417

Ion Ratio Lower Upper

117 100

119 4.2 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

8000

6000

4000

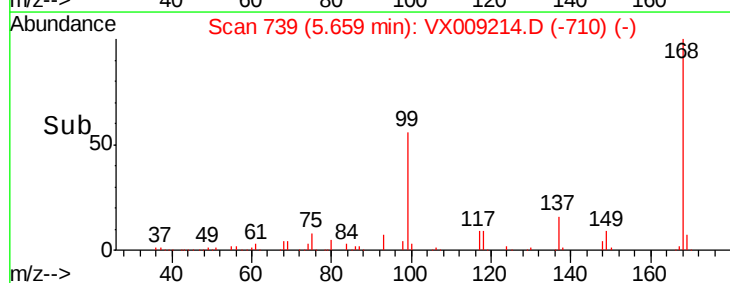
2000

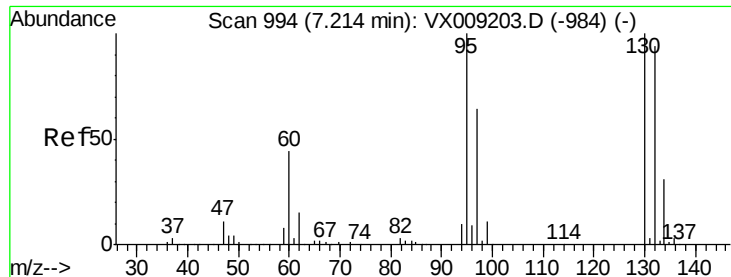
0

5.66

5.60 5.70 5.80

Time-->





#44

Trichloroethene

Concen: 0.435 ug/l

RT: 7.23 min Scan# 996

Delta R.T. 0.01 min

Lab File: VX009214.D

Acq: 29 Apr 2019 17:56

Instrument :

MSVOA_X

ClientSampleId :

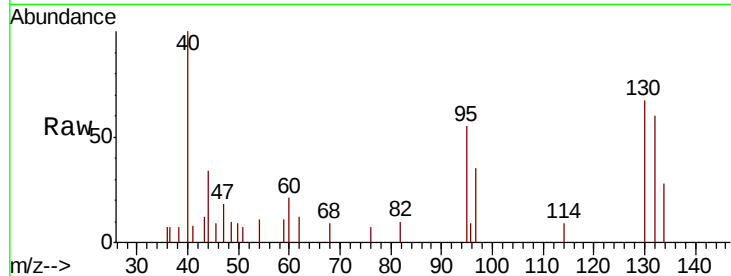
WP021MW348-190423

Tgt Ion:130 Resp: 1042

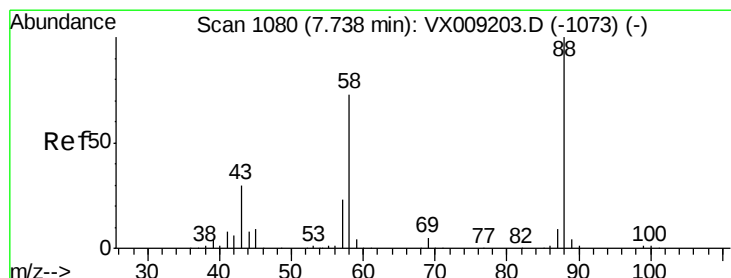
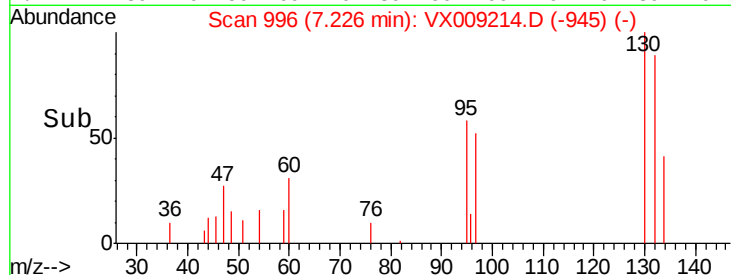
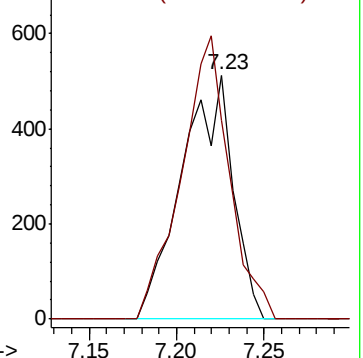
Ion Ratio Lower Upper

130 100

95 81.3 0.0 199.2



Abundance Ion 129.80 (129.50 to 130.50): V



#49

1,4-Dioxane

Concen: 0.265 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.02 min

Lab File: VX009214.D

Acq: 29 Apr 2019 17:56

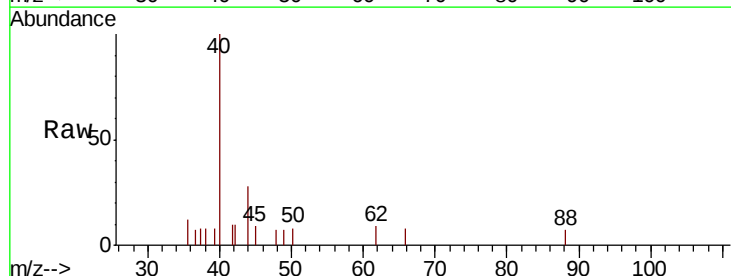
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 0.0 28.6 42.8#

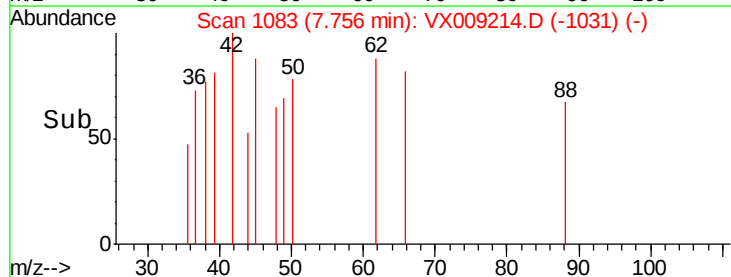
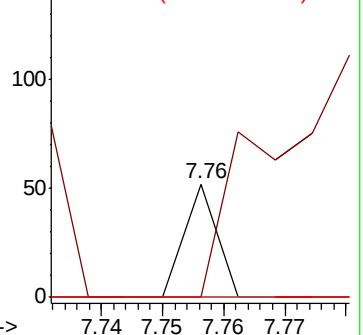
58 0.0 61.7 92.5#

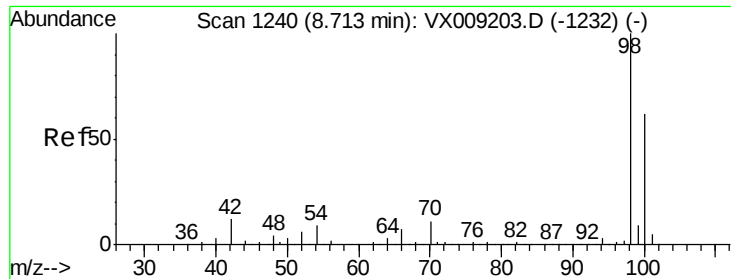


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.361 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009214.D

Acq: 29 Apr 2019 17:56

Instrument :

MSVOA_X

ClientSampleId :

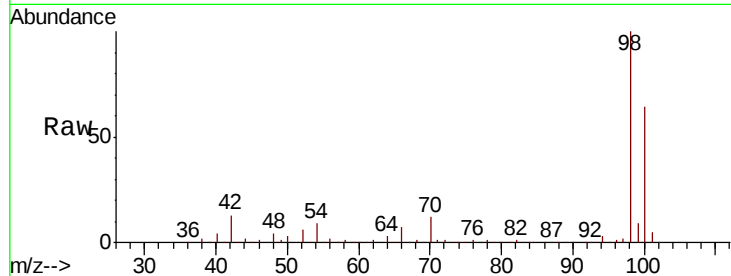
WP021MW348-190423

Tgt Ion: 98 Resp: 431452

Ion Ratio Lower Upper

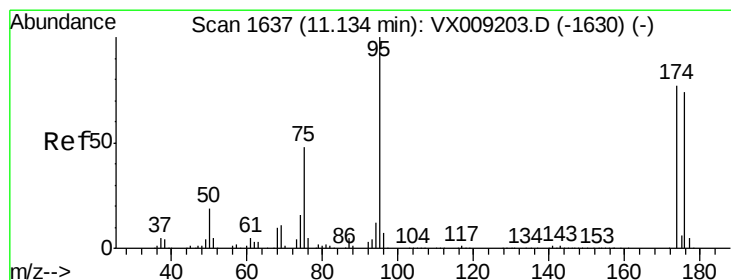
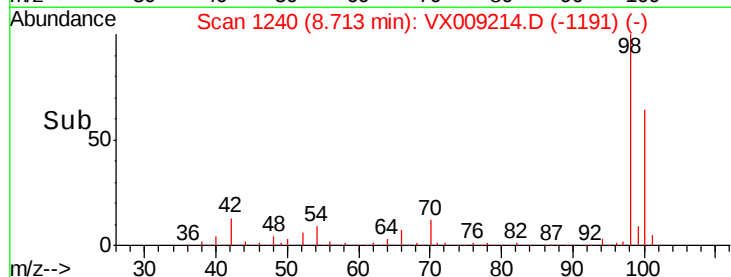
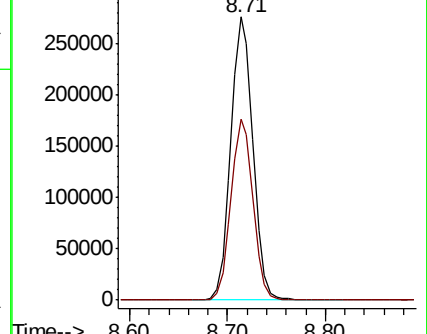
98 100

100 63.8 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: 45.242 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009214.D

Acq: 29 Apr 2019 17:56

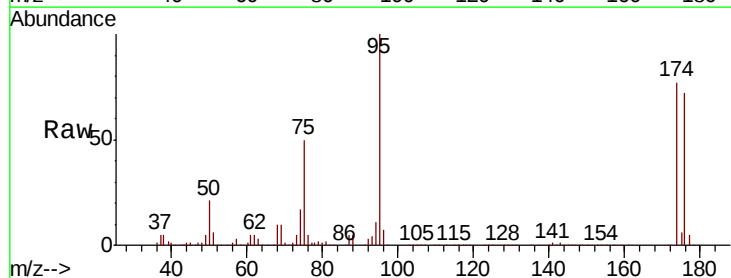
Tgt Ion: 95 Resp: 143690

Ion Ratio Lower Upper

95 100

174 80.6 0.0 161.6

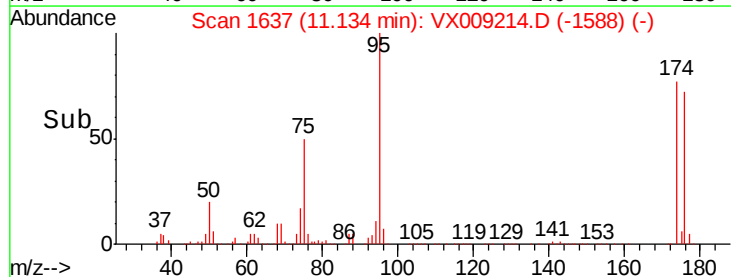
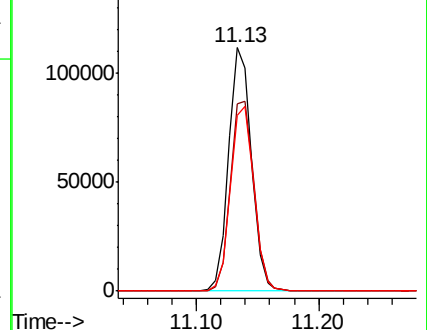
176 77.8 0.0 159.2

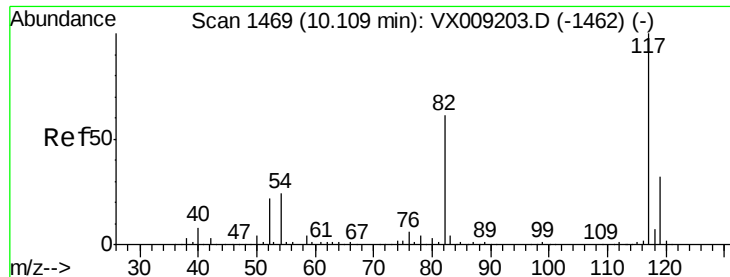


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

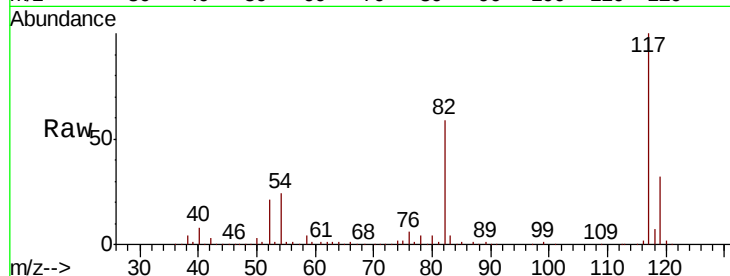




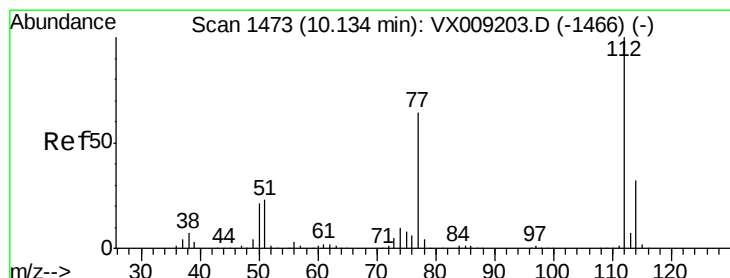
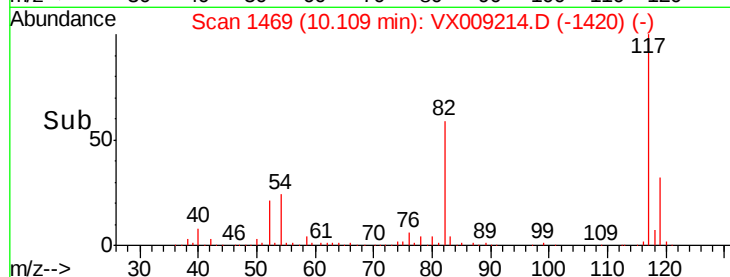
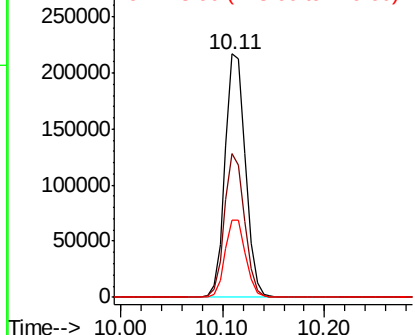
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009214.D
Acq: 29 Apr 2019 17:56

Instrument :
MSVOA_X
ClientSampleId :
WP021MW348-190423

Tgt Ion:117 Resp: 300085
Ion Ratio Lower Upper
117 100
82 59.2 48.8 73.2
119 31.7 25.8 38.6

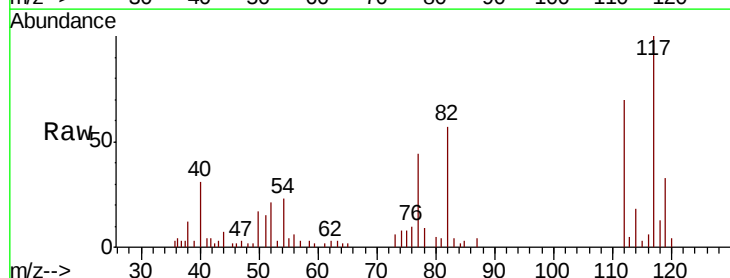


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

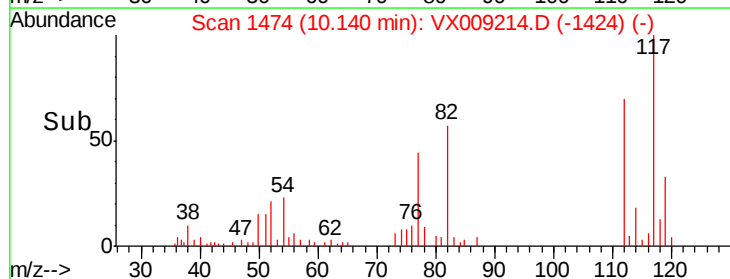
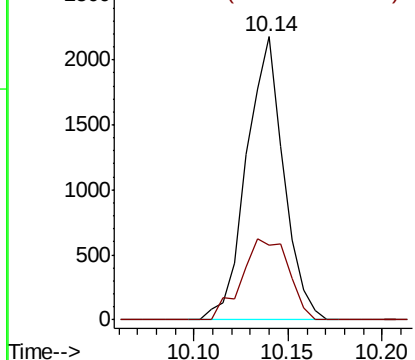


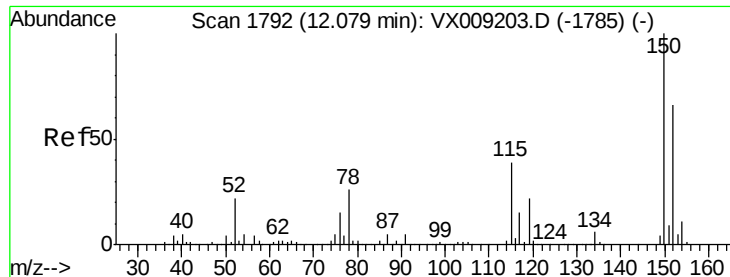
#65
Chlorobenzene
Concen: 0.495 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.01 min
Lab File: VX009214.D
Acq: 29 Apr 2019 17:56

Tgt Ion:112 Resp: 2972
Ion Ratio Lower Upper
112 100
114 26.4 25.5 38.3



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): 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: VX009214.D

Acq: 29 Apr 2019 17:56

Instrument :

MSVOA_X

ClientSampleId :

WP021MW348-190423

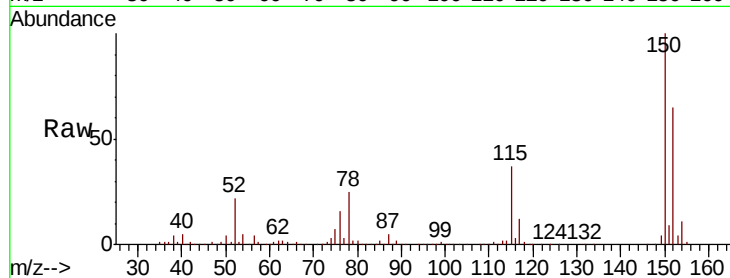
Tgt Ion:152 Resp: 128990

Ion Ratio Lower Upper

152 100

115 58.4 41.2 123.6

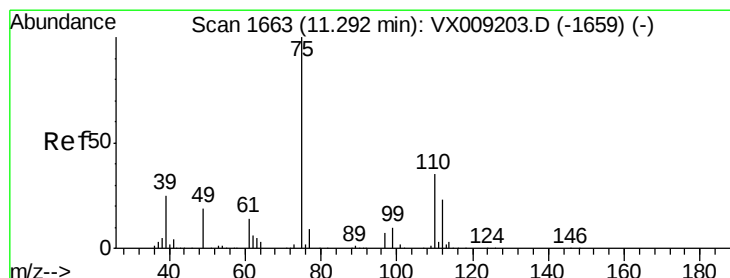
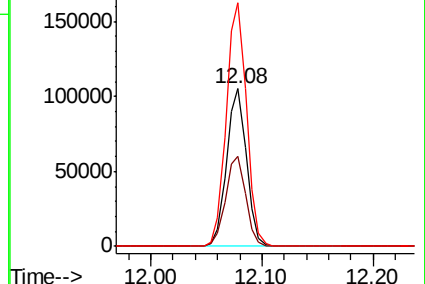
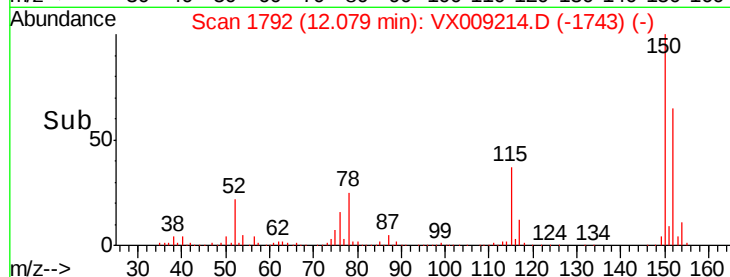
150 158.0 0.0 346.4



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: 24.224 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009214.D

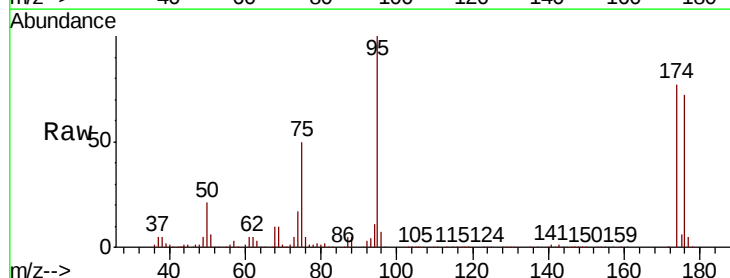
Acq: 29 Apr 2019 17:56

Tgt Ion: 75 Resp: 72482

Ion Ratio Lower Upper

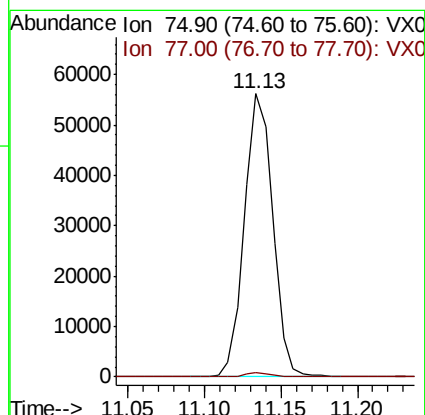
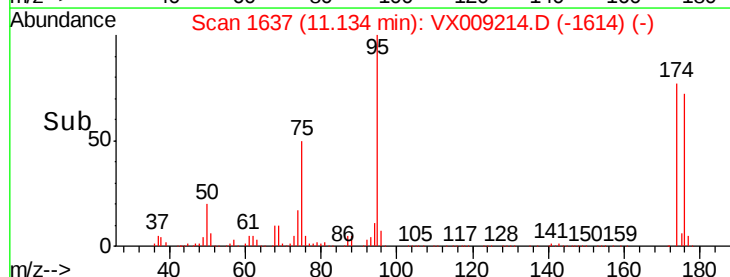
75 100

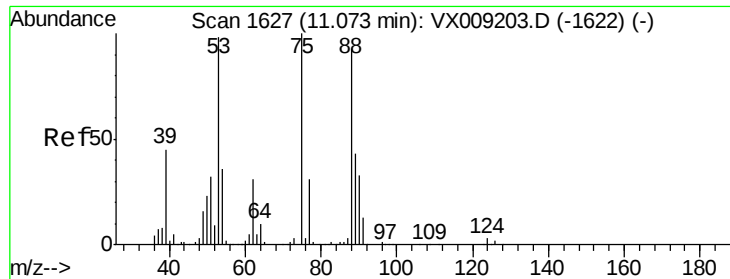
77 1.3 22.1 66.1#



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: 61.982 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009214.D

Acq: 29 Apr 2019 17:56

Instrument :

MSVOA_X

ClientSampleId :

WP021MW348-190423

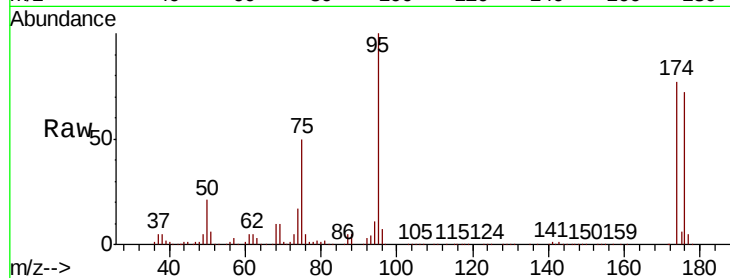
Tgt Ion: 75 Resp: 72482

Ion Ratio Lower Upper

75 100

53 0.3 79.0 118.6#

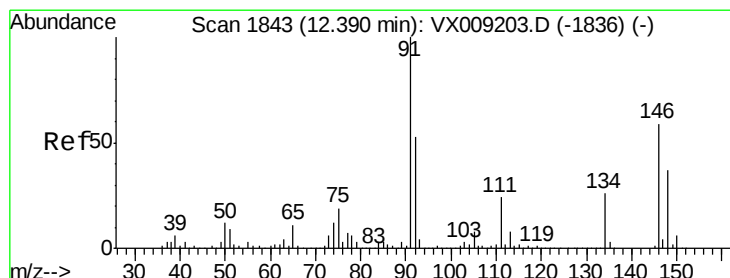
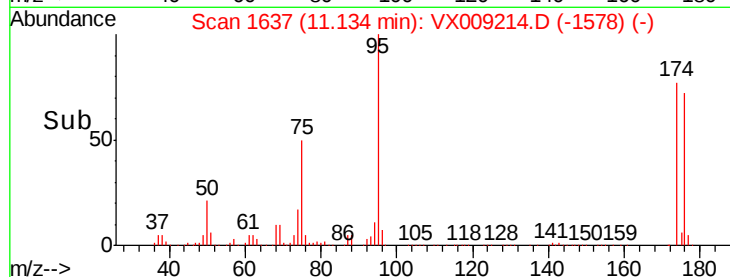
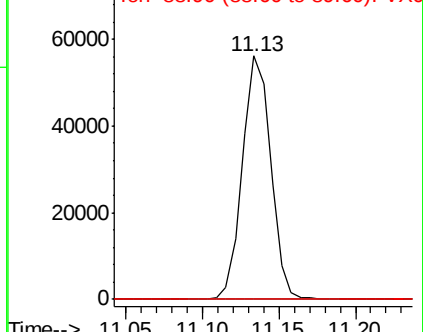
89 0.0 34.7 52.1#



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



#91

1,2-Dichlorobenzene

Concen: 0.432 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VX009214.D

Acq: 29 Apr 2019 17:56

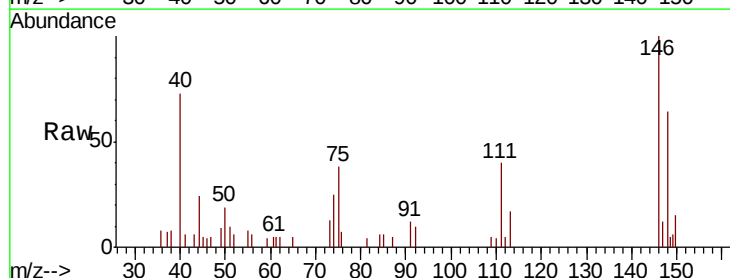
Tgt Ion: 146 Resp: 1828

Ion Ratio Lower Upper

146 100

111 45.4 20.8 62.4

148 62.3 31.9 95.9



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

