

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050319\
 Data File : VX009321.D
 Acq On : 03 May 2019 19:47
 Operator : JC/SP
 Sample : K2687-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW351-190502

Quant Time: May 03 23:20:29 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	5.67	168	197236	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	312452	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	274949	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	119191	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	129513	48.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.20%	
35) Dibromofluoromethane	5.49	113	95368	48.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.10%	
50) Toluene-d8	8.71	98	392955	49.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.10%	
62) 4-Bromofluorobenzene	11.13	95	131429	45.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.22%	

Target Compounds

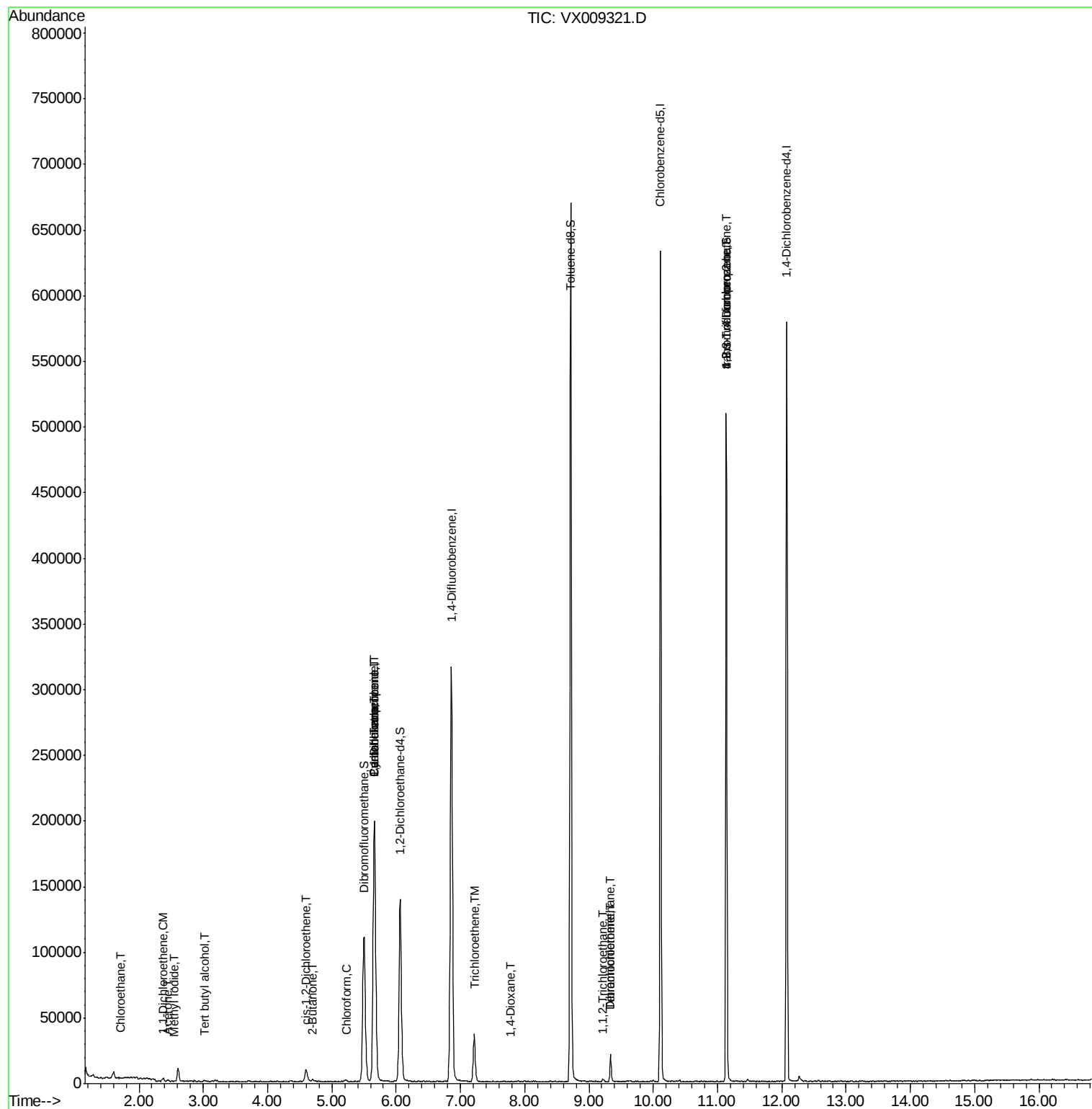
						Qvalue
6) Chloroethane	1.71	64	442	0.285	ug/l #	43
10) Methyl Iodide	2.54	142	22	4.603	ug/l #	42
11) Tert butyl alcohol	3.02	59	548	0.879	ug/l #	84
12) 1,1-Dichloroethene	2.37	96	651	0.352	ug/l	90
16) Acetone	2.44	43	1237	0.856	ug/l #	84
25) 2-Butanone	4.69	43	540	0.240	ug/l #	53
27) cis-1,2-Dichloroethene	4.59	96	5509	2.300	ug/l	92
28) Bromochloromethane	4.96	49	35	Below Cal	#	20
30) Chloroform	5.22	83	1466	0.379	ug/l #	77
31) Cyclohexane	5.66	56	4343	1.091	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	15417	5.310	ug/l #	51
38) Carbon Tetrachloride	5.66	117	18251	6.918	ug/l #	14
44) Trichloroethene	7.21	130	13761	6.334	ug/l	92
49) 1,4-Dioxane	7.77	88	38	0.584	ug/l #	1
55) 1,1,2-Trichloroethane	9.21	97	496	0.223	ug/l #	87
60) Dibromochloromethane	9.34	129	3904	1.794	ug/l #	11
64) Tetrachloroethene	9.34	164	4173	2.213	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	66377	24.008	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	66377	61.428	ug/l #	10

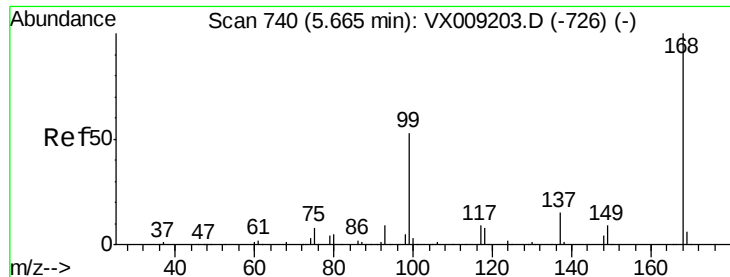
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009321.D

Acq: 03 May 2019 19:47

Instrument :

MSVOA_X

ClientSampleId :

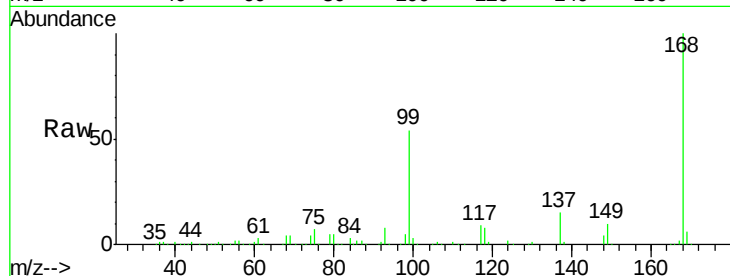
SS052MW351-190502

Tot Ion:168 Resp: 197236

Ion Ratio Lower Upper

168 100

99 53.6 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

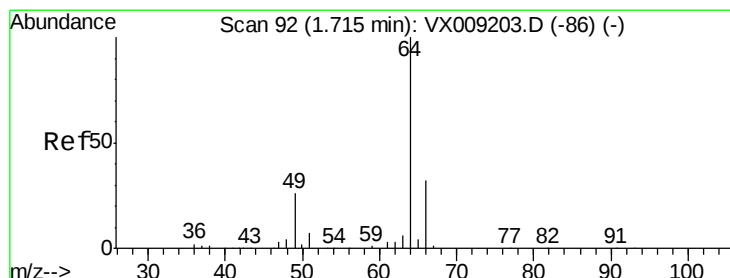
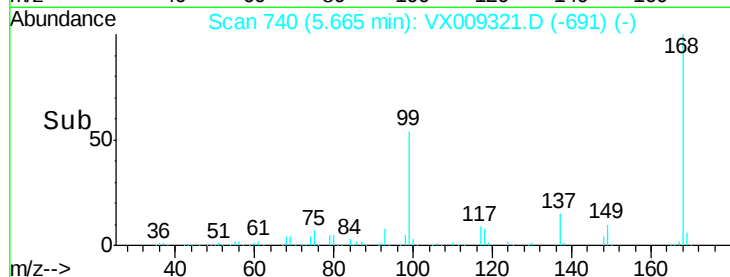
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: 0.285 ug/l

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX009321.D

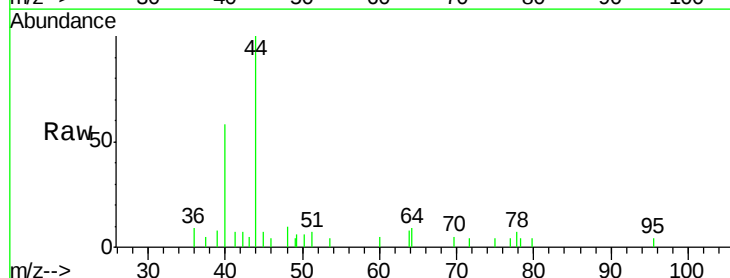
Acq: 03 May 2019 19:47

Tgt Ion: 64 Resp: 442

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.71

300

250

200

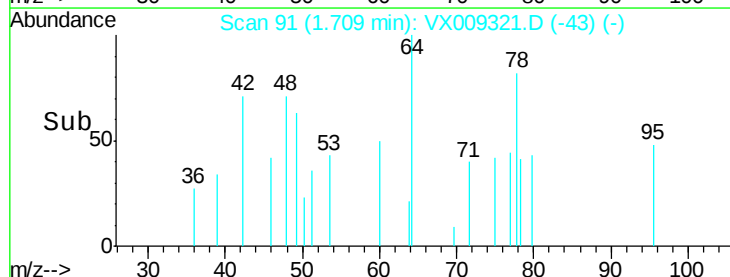
150

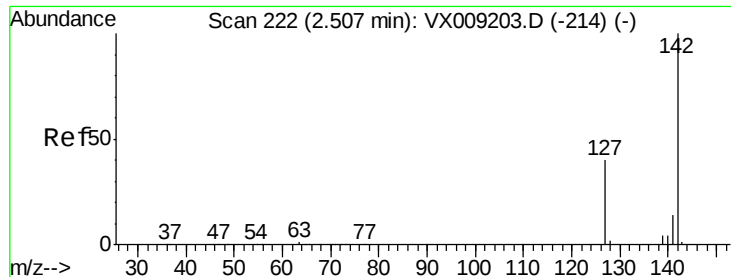
100

50

0

Time--> 1.65 1.70

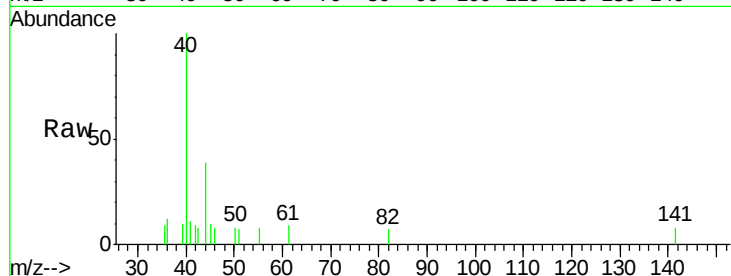




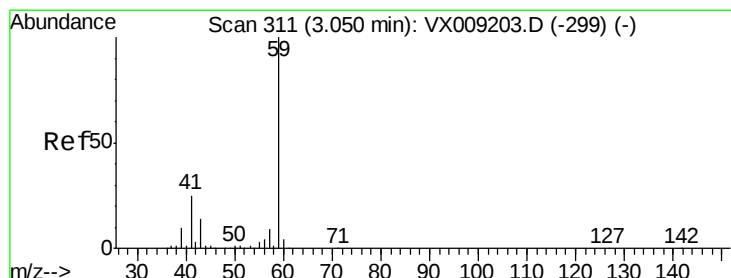
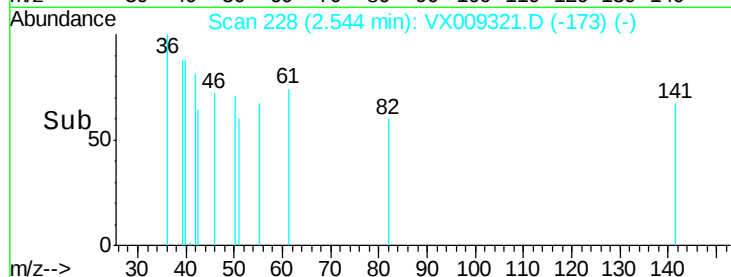
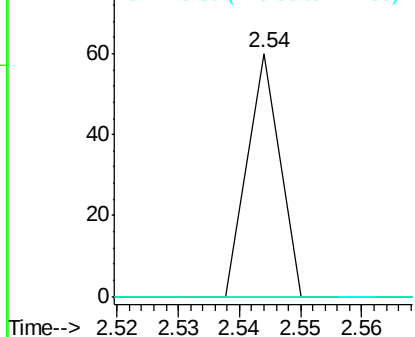
#10
Methvl Iodide
Concen: 4.603 ug/l
RT: 2.54 min Scan# 228
Delta R.T. 0.04 min
Lab File: VX009321.D
Acq: 03 May 2019 19:47

Instrument :
MSVOA_X
ClientSampleId :
SS052MW351-190502

Tot Ion:142 Resp: 22
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.5 17.3#

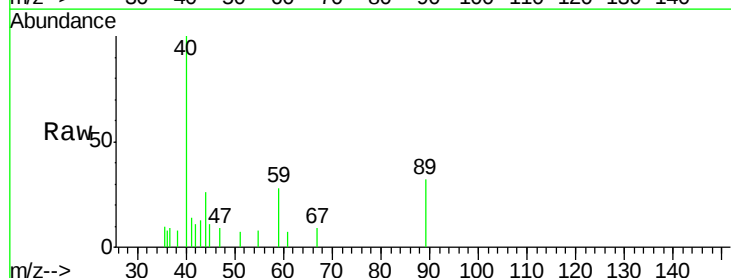


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

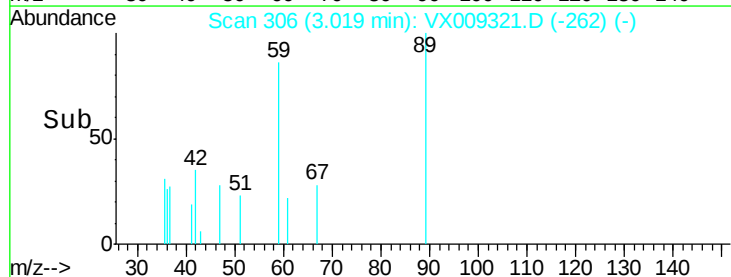
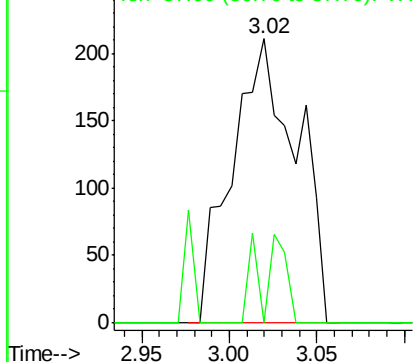


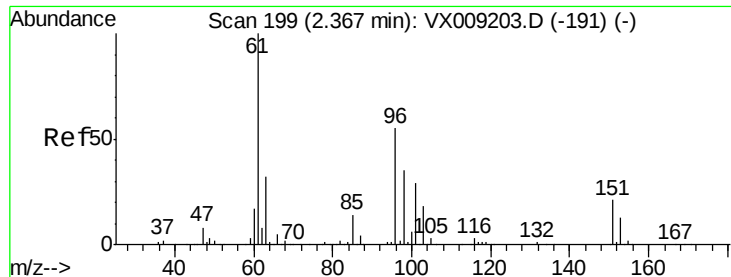
#11
Tert butyl alcohol
Concen: 0.879 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX009321.D
Acq: 03 May 2019 19:47

Tgt Ion: 59 Resp: 548
Ion Ratio Lower Upper
59 100
57 4.4 8.2 12.2#



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

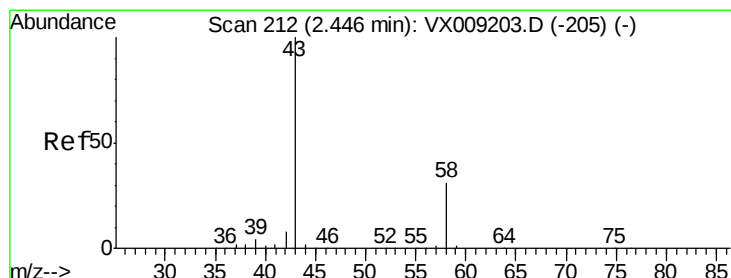
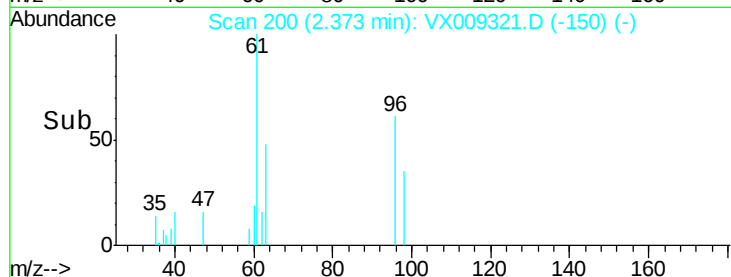
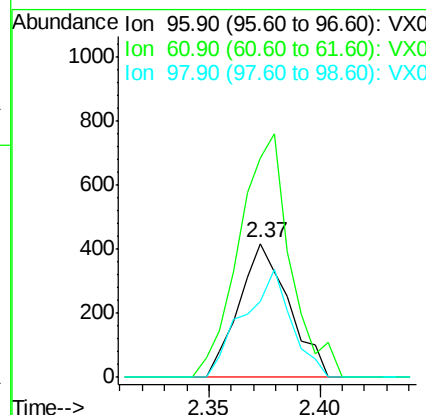
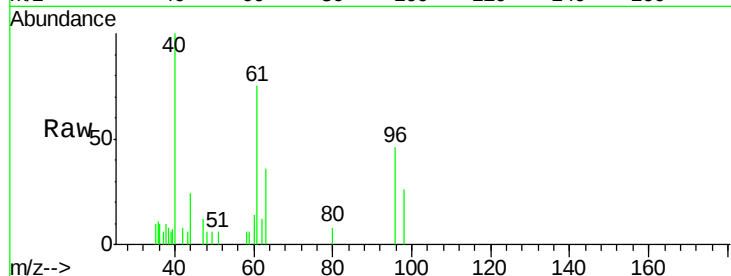




#12
 1,1-Dichloroethene
 Concen: 0.352 ug/l
 RT: 2.37 min Scan# 200
 Delta R.T. 0.01 min
 Lab File: VX009321.D
 Acq: 03 May 2019 19:47

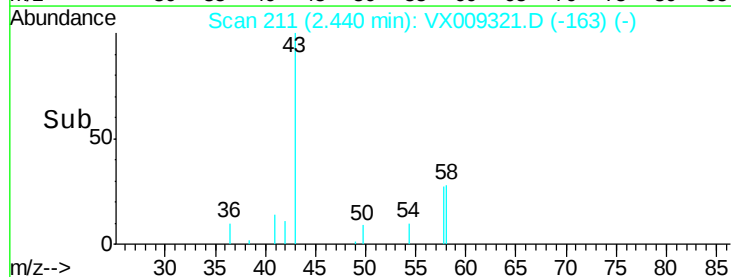
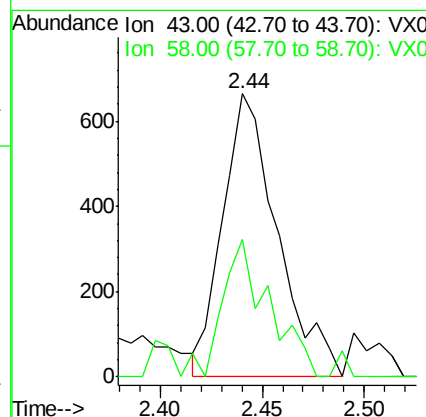
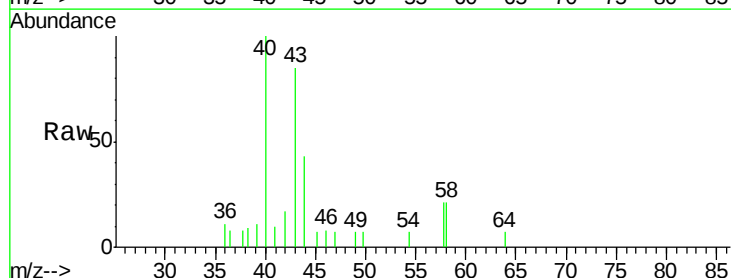
Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW351-190502

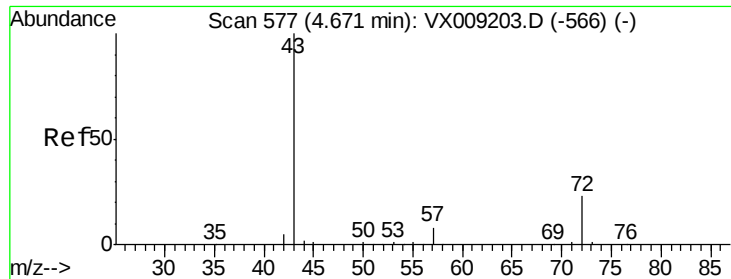
Tot Ion: 96 Resp: 651
 Ion Ratio Lower Upper
 96 100
 61 164.3 144.3 216.5
 98 56.8 50.3 75.5



#16
 Acetone
 Concen: 0.856 ug/l
 RT: 2.44 min Scan# 211
 Delta R.T. -0.01 min
 Lab File: VX009321.D
 Acq: 03 May 2019 19:47

Tgt Ion: 43 Resp: 1237
 Ion Ratio Lower Upper
 43 100
 58 40.1 24.9 37.3#





#25

2-Butanone

Concen: 0.240 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX009321.D

Acq: 03 May 2019 19:47

Instrument :

MSVOA_X

ClientSampleId :

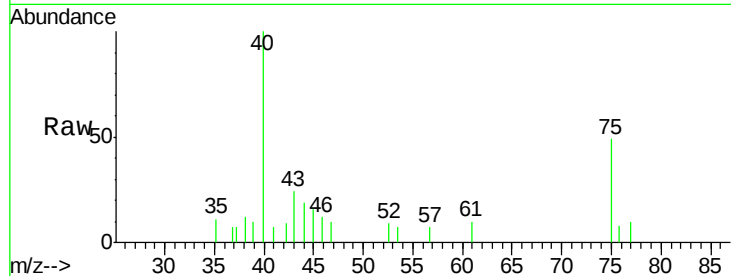
SS052MW351-190502

Tot Ion: 43 Resp: 540

Ion Ratio Lower Upper

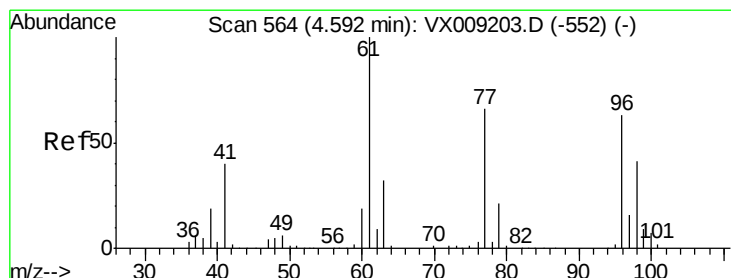
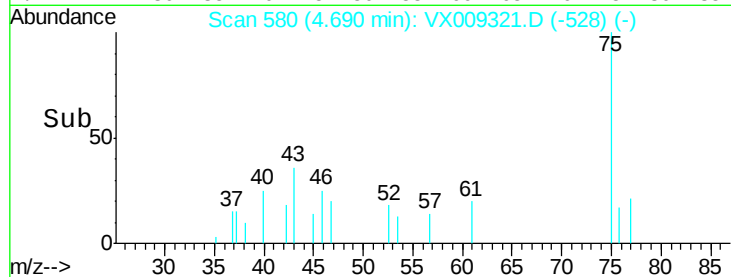
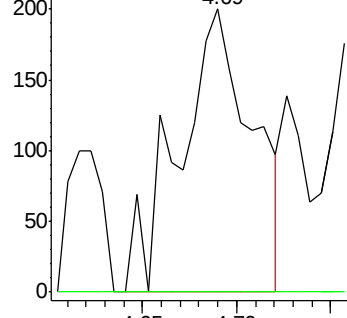
43 100

72 0.0 18.2 27.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 2.300 ug/l

RT: 4.59 min Scan# 564

Delta R.T. 0.00 min

Lab File: VX009321.D

Acq: 03 May 2019 19:47

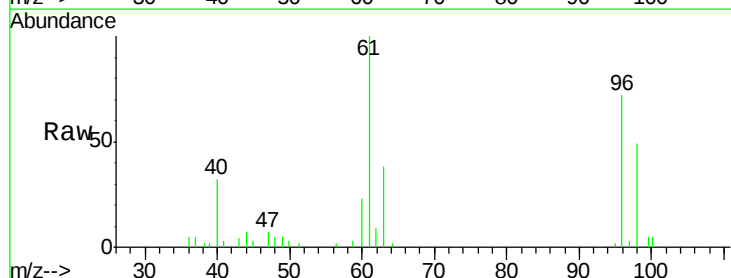
Tgt Ion: 96 Resp: 5509

Ion Ratio Lower Upper

96 100

61 149.8 0.0 324.0

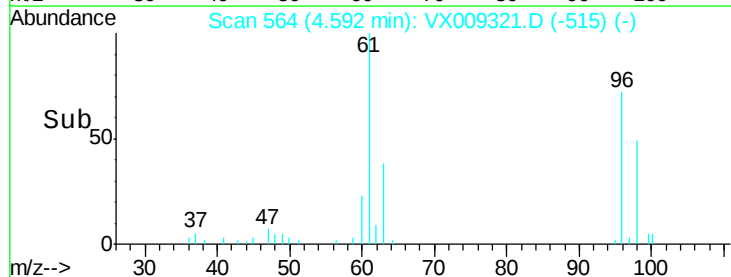
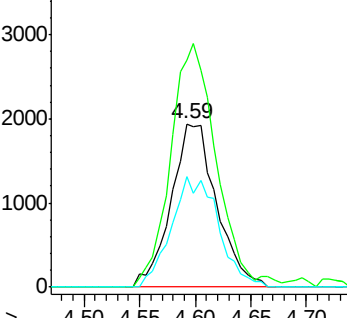
98 69.7 0.0 130.4

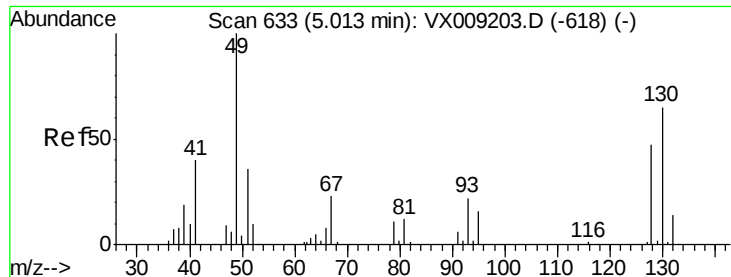


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 4.96 min Scan# 625

Delta R.T. -0.05 min

Lab File: VX009321.D

Acq: 03 May 2019 19:47

Instrument :

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ClientSampleId :

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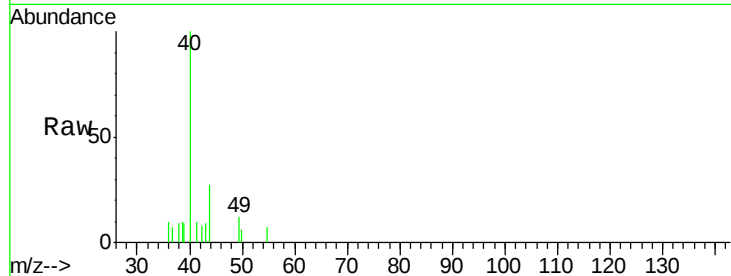
Tot Ion: 49 Resp: 35

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 0.0 51.2 76.8#

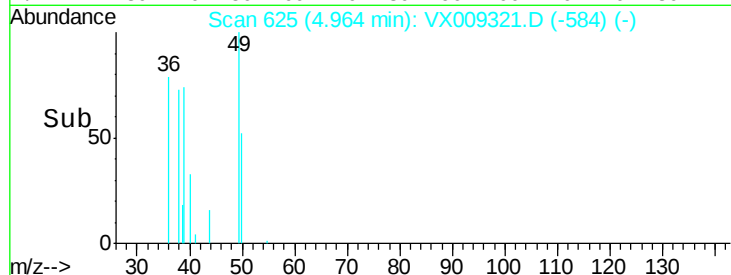


Abundance Ion 48.90 (48.60 to 49.60): VX0

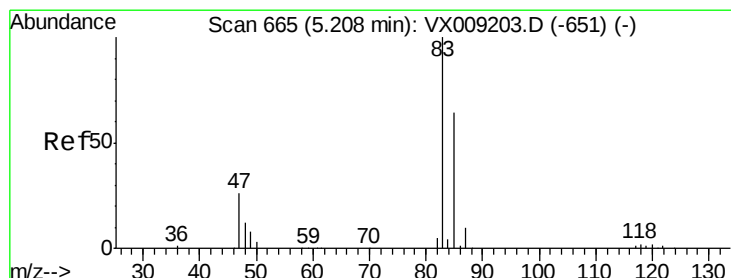
Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

Time--> 4.94 4.95 4.96 4.97 4.98



Time--> 4.94 4.95 4.96 4.97 4.98



#30

Chloroform

Concen: 0.379 ug/l

RT: 5.22 min Scan# 667

Delta R.T. 0.01 min

Lab File: VX009321.D

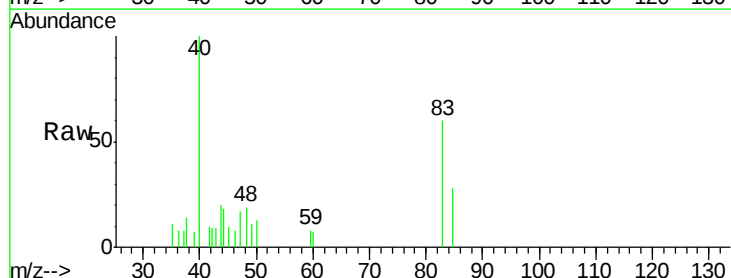
Acq: 03 May 2019 19:47

Tgt Ion: 83 Resp: 1466

Ion Ratio Lower Upper

83 100

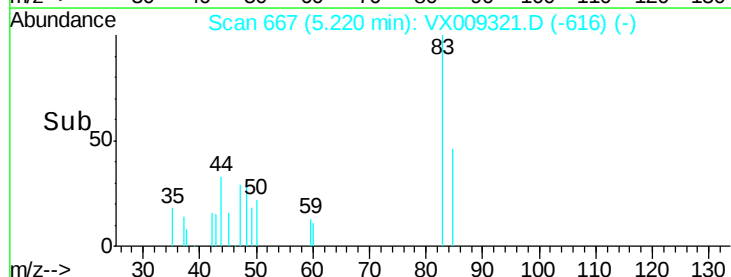
85 46.2 51.5 77.3#



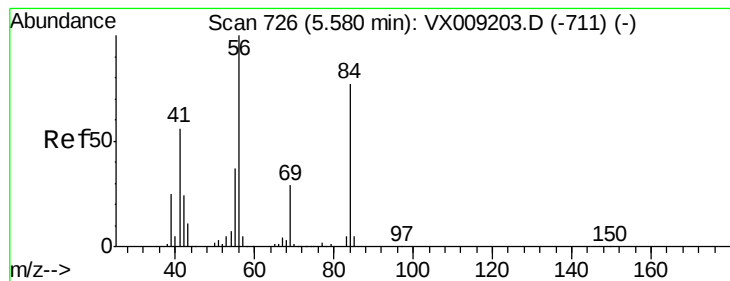
Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Time--> 5.15 5.20 5.25 5.30



Time--> 5.15 5.20 5.25 5.30



#31

Cyclohexane

Concen: 1.091 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009321.D

Acq: 03 May 2019 19:47

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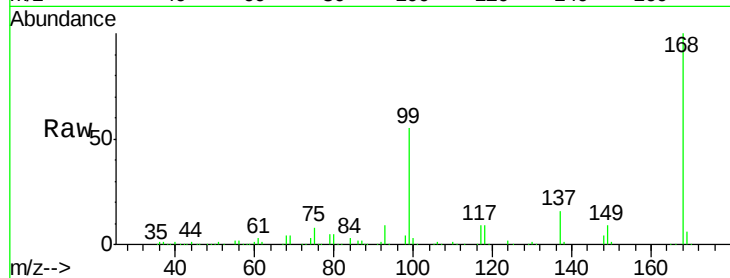
Tot Ion: 56 Resp: 4343

Ion Ratio Lower Upper

56 100

69 174.9 23.4 35.0#

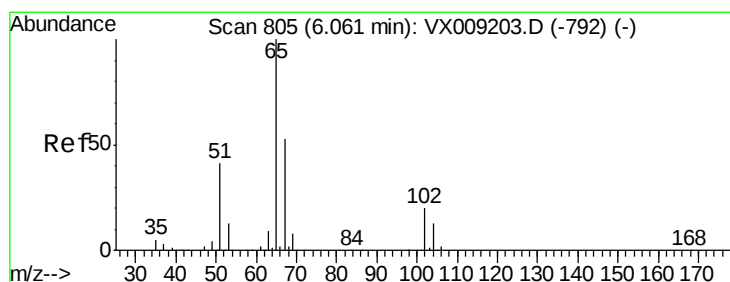
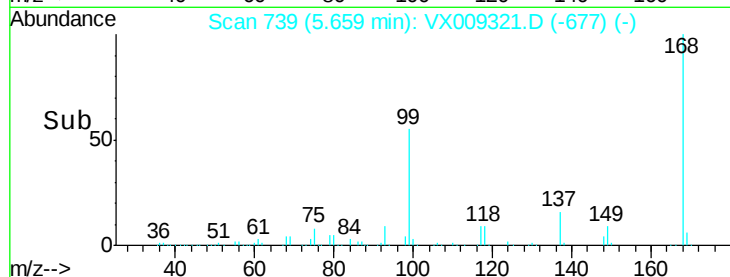
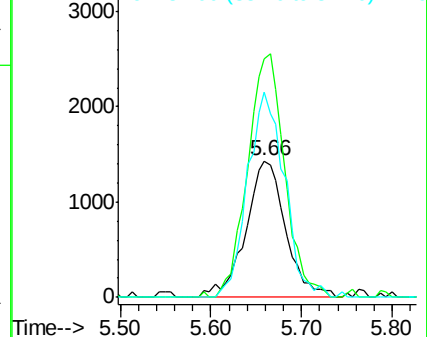
84 150.7 61.9 92.9#



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: 48.101 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009321.D

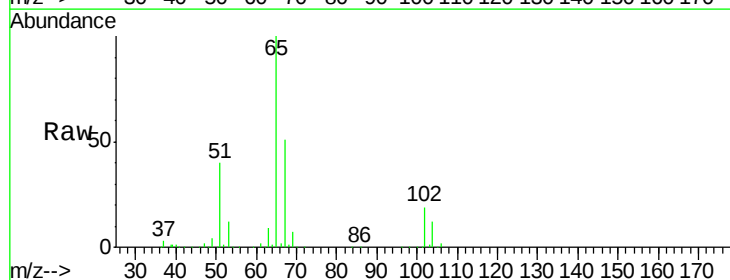
Acq: 03 May 2019 19:47

Tgt Ion: 65 Resp: 129513

Ion Ratio Lower Upper

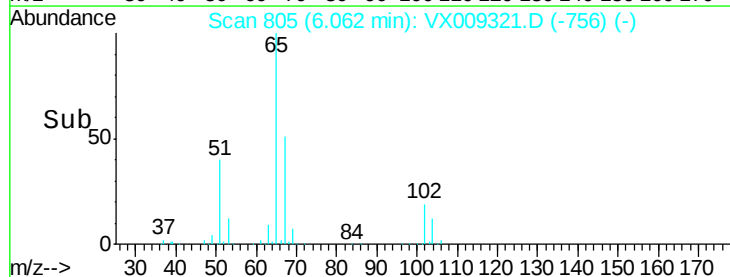
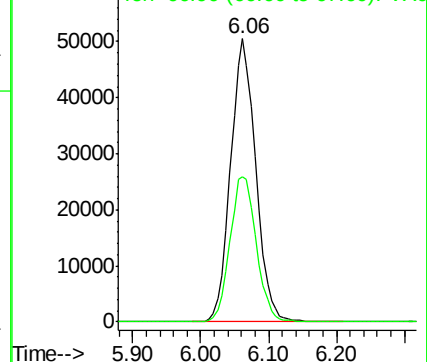
65 100

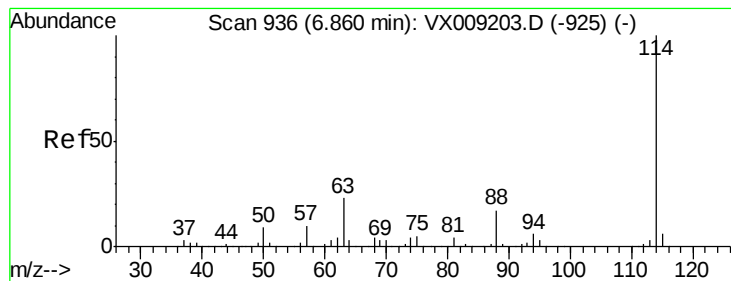
67 53.5 0.0 106.6



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: VX009321.D

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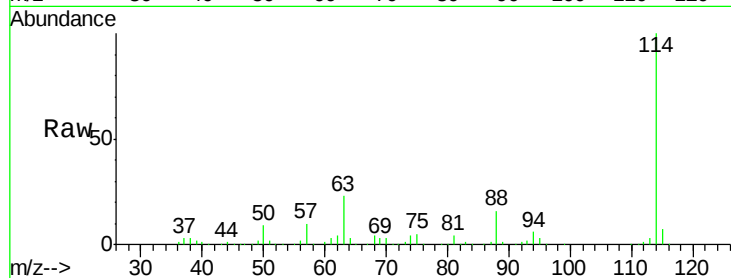
Tot Ion:114 Resp: 312452

Ion Ratio Lower Upper

114 100

63 23.3 0.0 45.6

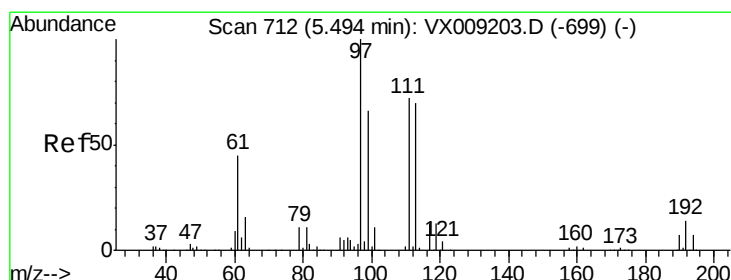
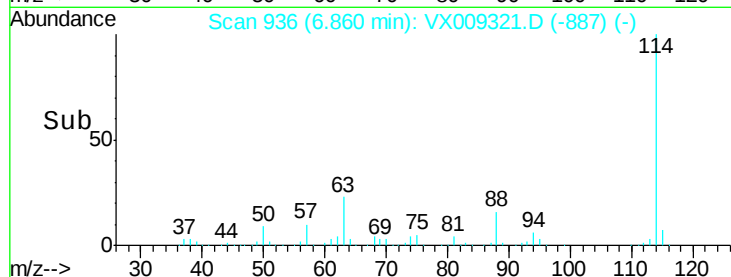
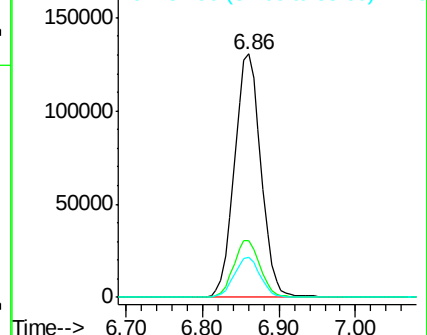
88 16.3 0.0 33.2



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: 48.553 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.00 min

Lab File: VX009321.D

Acq: 03 May 2019 19:47

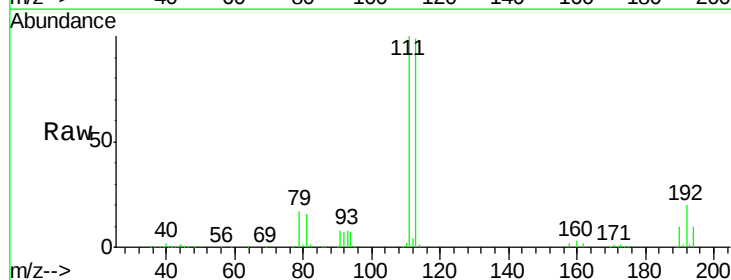
Tgt Ion:113 Resp: 95368

Ion Ratio Lower Upper

113 100

111 102.6 82.8 124.2

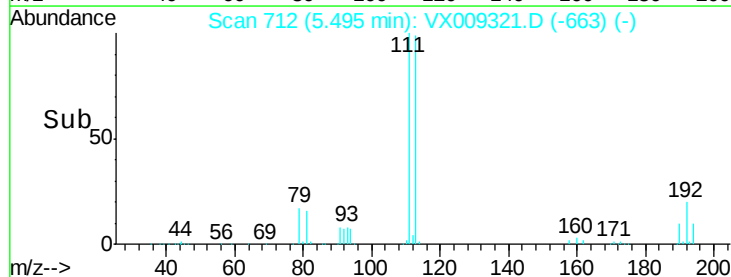
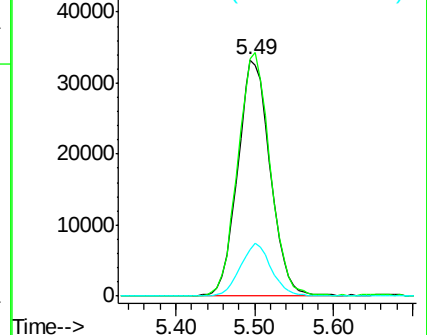
192 21.4 17.0 25.6

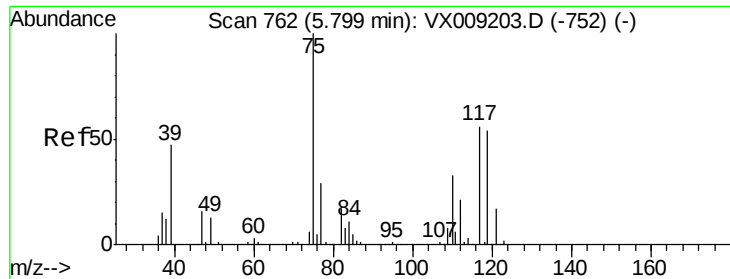


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

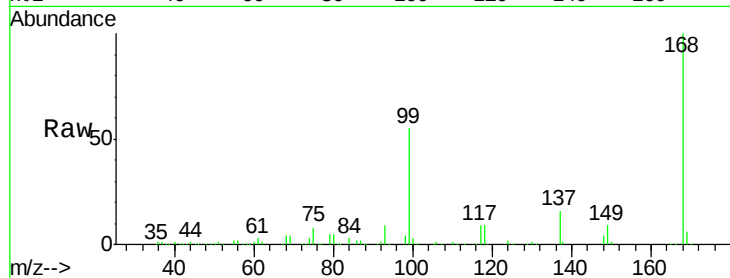




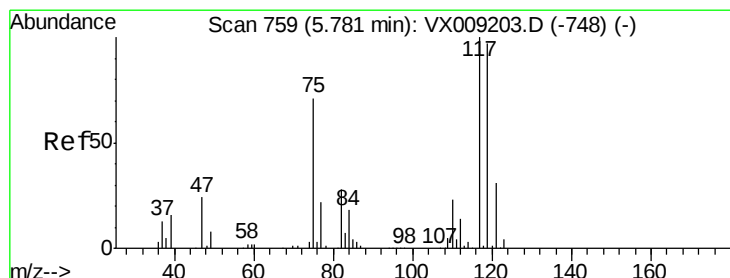
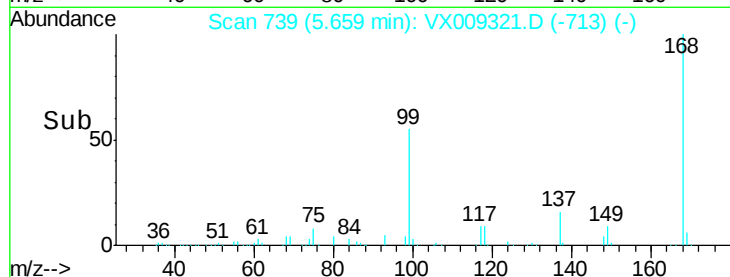
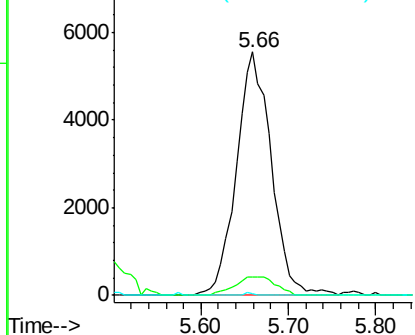
#36
 1,1-Dichloropropene
 Concen: 5.310 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009321.D
 Acq: 03 May 2019 19:47

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW351-190502

Tot Ion: 75 Resp: 15417
 Ion Ratio Lower Upper
 75 100
 110 8.9 16.9 50.6#
 77 0.3 24.8 37.2#

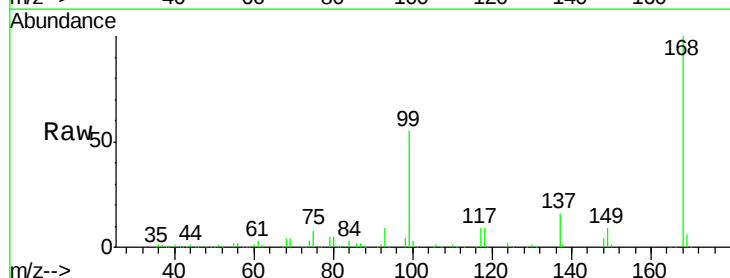


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

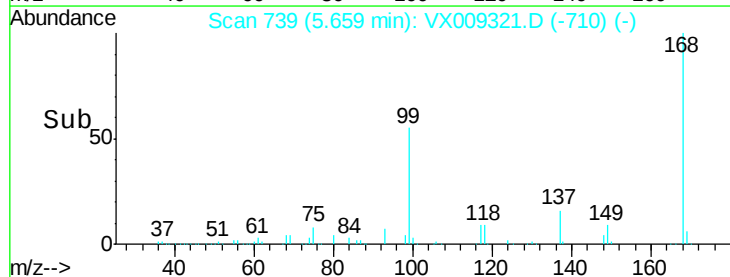
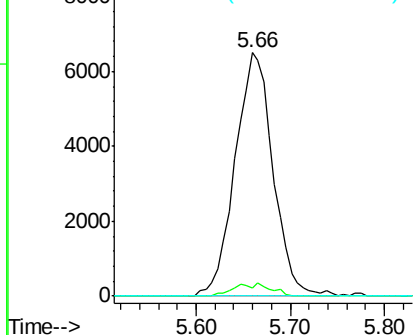


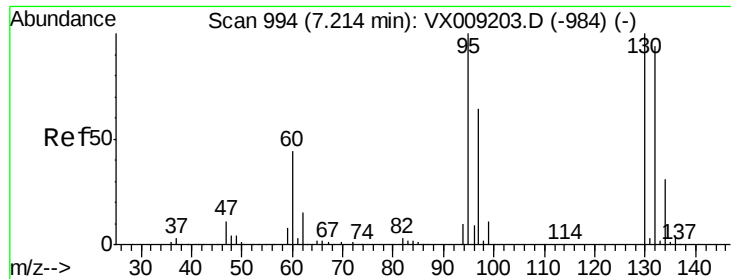
#38
 Carbon Tetrachloride
 Concen: 6.918 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX009321.D
 Acq: 03 May 2019 19:47

Tgt Ion:117 Resp: 18251
 Ion Ratio Lower Upper
 117 100
 119 3.5 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

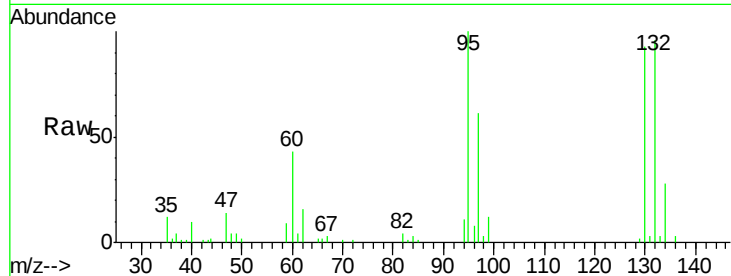




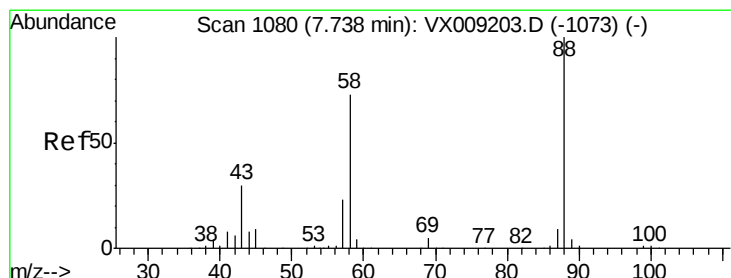
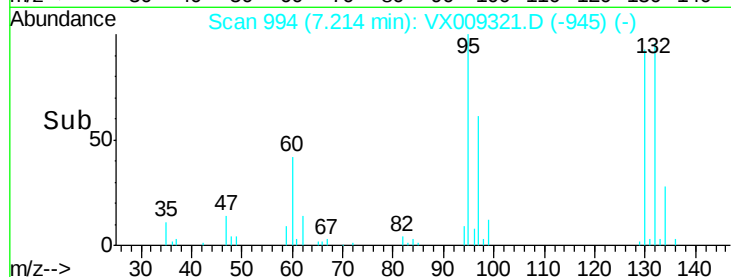
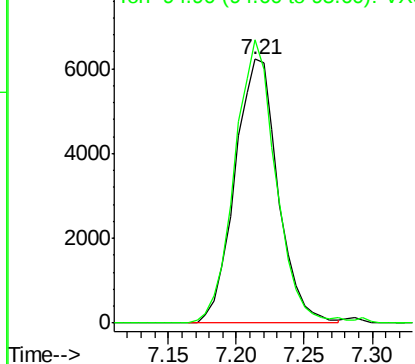
#44
 Trichloroethene
 Concen: 6.334 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. 0.00 min
 Lab File: VX009321.D
 Acq: 03 May 2019 19:47

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW351-190502

Tot Ion:130 Resp: 13761
 Ion Ratio Lower Upper
 130 100
 95 107.3 0.0 199.2

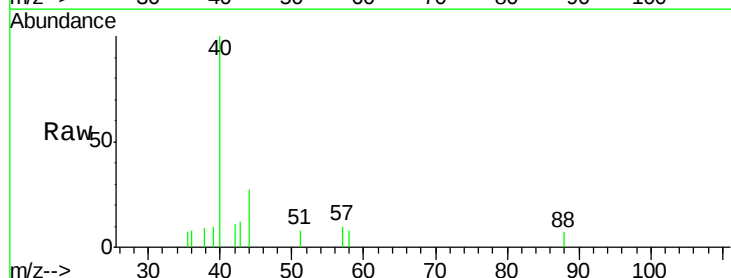


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

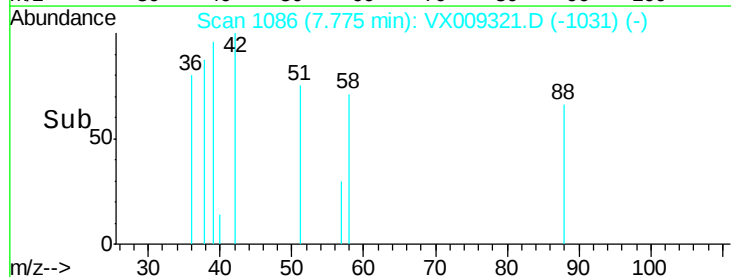
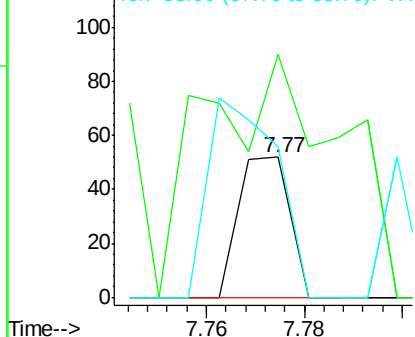


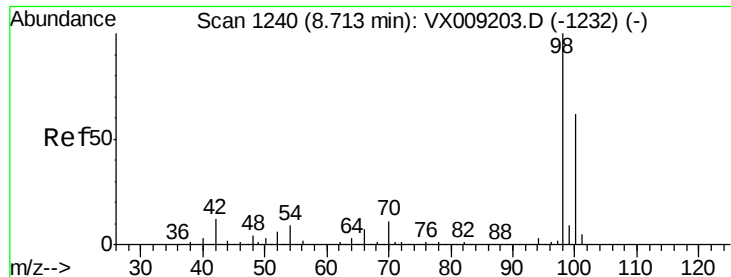
#49
 1,4-Dioxane
 Concen: 0.584 ug/l
 RT: 7.77 min Scan# 1086
 Delta R.T. 0.04 min
 Lab File: VX009321.D
 Acq: 03 May 2019 19:47

Tgt Ion: 88 Resp: 38
 Ion Ratio Lower Upper
 88 100
 43 263.2 28.6 42.8#
 58 189.5 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

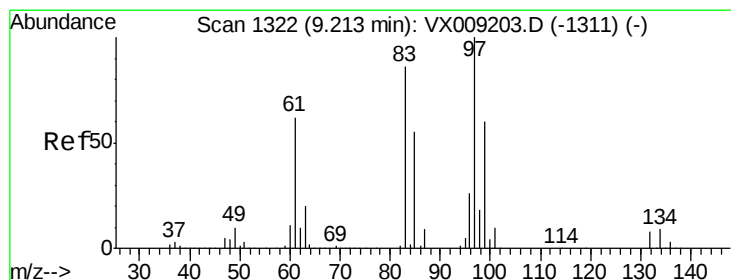
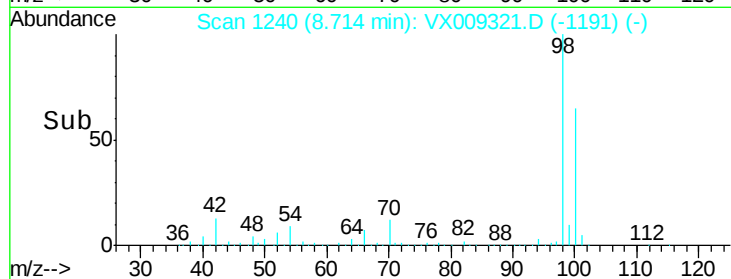
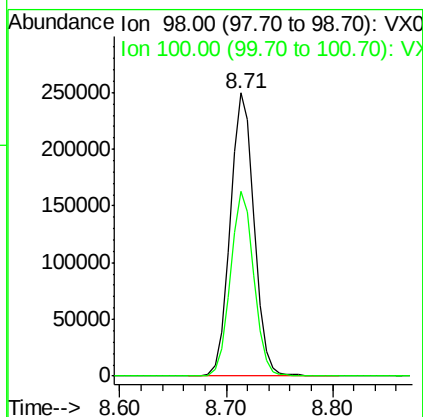
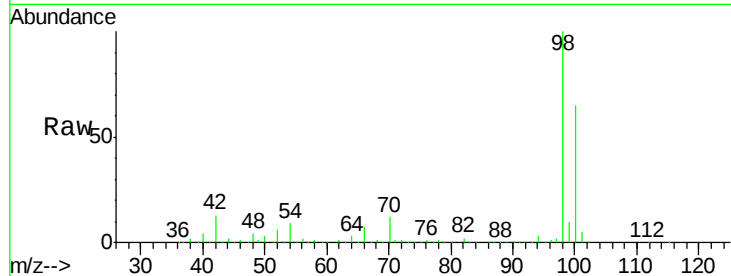




#50
Toluene-d8
Concen: 49.553 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX009321.D
Acq: 03 May 2019 19:47

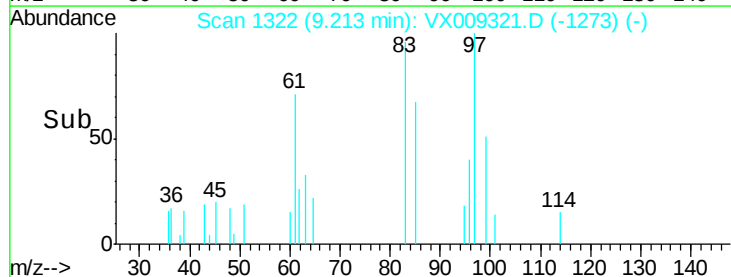
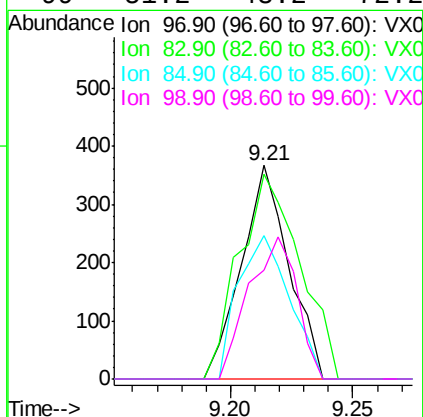
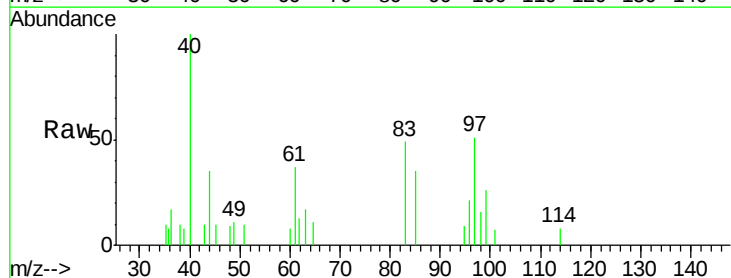
Instrument :
MSVOA_X
ClientSampleId :
SS052MW351-190502

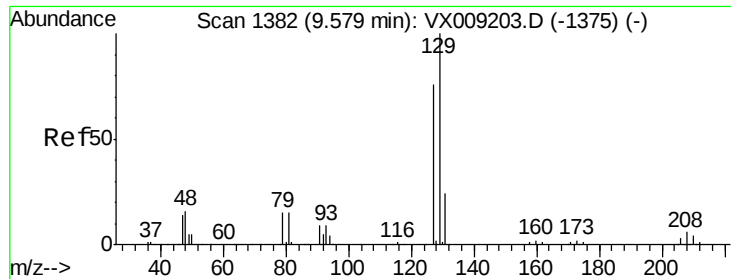
Tot Ion: 98 Resp: 392955
Ion Ratio Lower Upper
98 100
100 64.2 51.2 76.8



#55
1,1,2-Trichloroethane
Concen: 0.223 ug/l
RT: 9.21 min Scan# 1322
Delta R.T. 0.00 min
Lab File: VX009321.D
Acq: 03 May 2019 19:47

Tgt Ion: 97 Resp: 496
Ion Ratio Lower Upper
97 100
83 95.6 68.9 103.3
85 67.3 43.8 65.6#
99 51.2 48.2 72.2

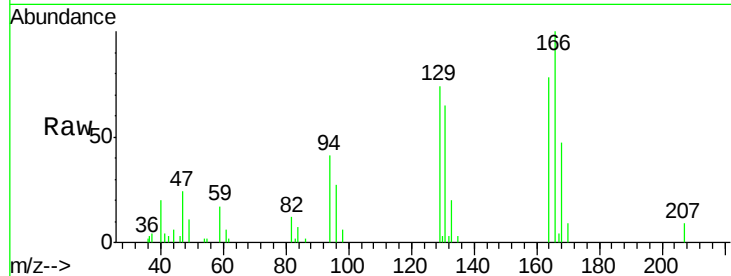




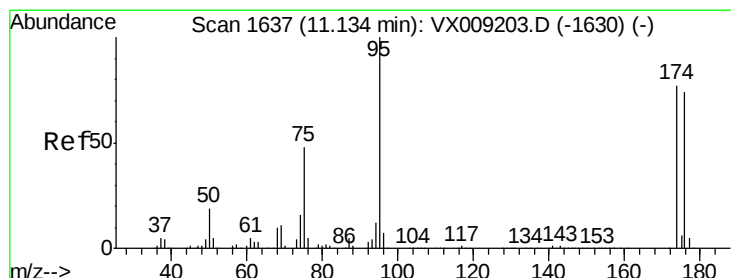
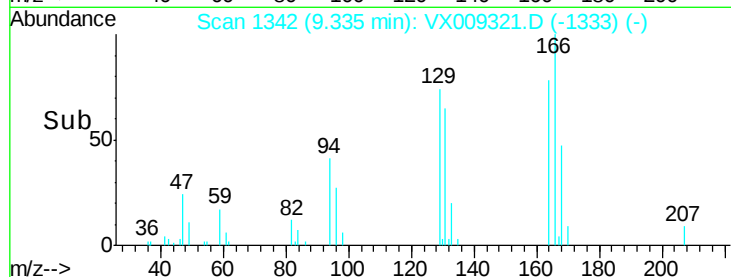
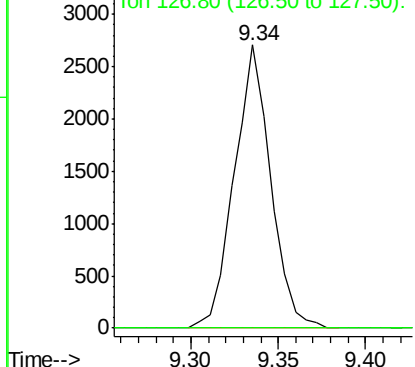
#60
 Dibromochloromethane
 Concen: 1.794 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. -0.24 min
 Lab File: VX009321.D
 Acq: 03 May 2019 19:47

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW351-190502

Tot Ion:129 Resp: 3904
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.4 115.1#

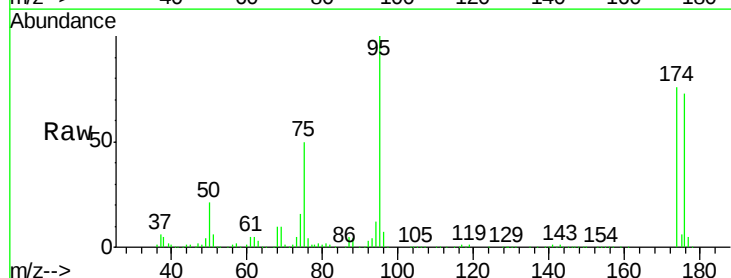


Abundance Ion 128.80 (128.50 to 129.50): V
 Ion 126.80 (126.50 to 127.50): V

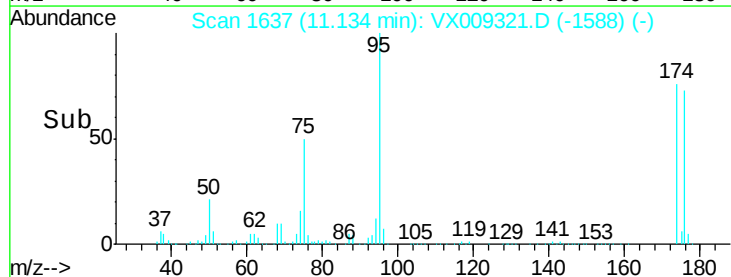
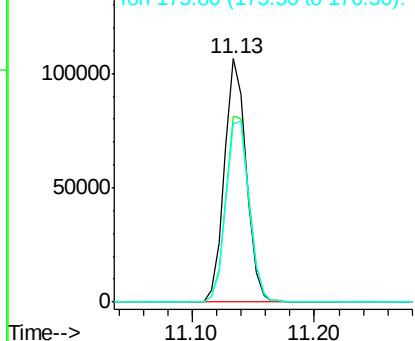


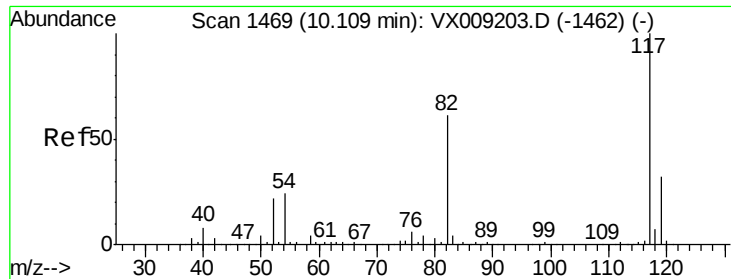
#62
 4-Bromofluorobenzene
 Concen: 45.612 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VX009321.D
 Acq: 03 May 2019 19:47

Tgt Ion: 95 Resp: 131429
 Ion Ratio Lower Upper
 95 100
 174 81.7 0.0 161.6
 176 78.8 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

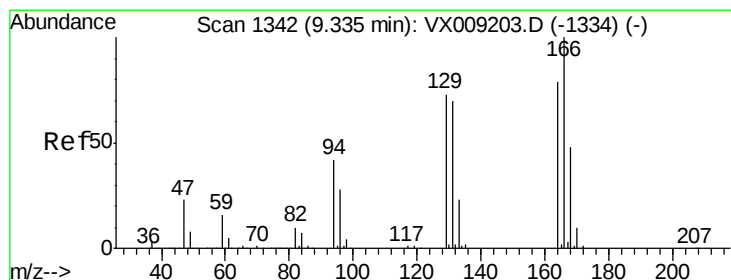
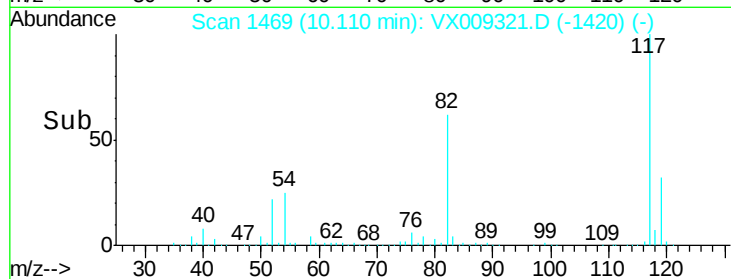
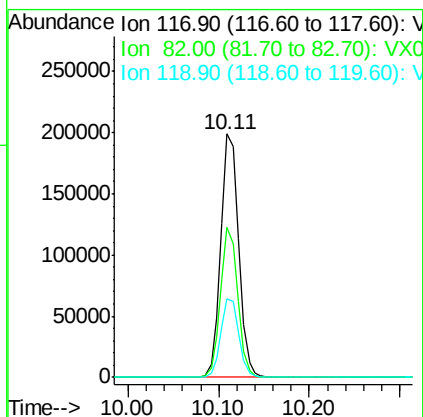
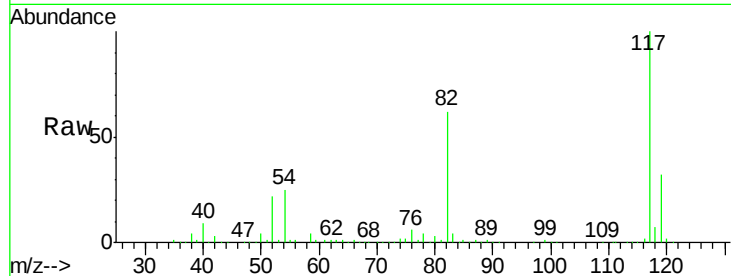




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009321.D
Acq: 03 May 2019 19:47

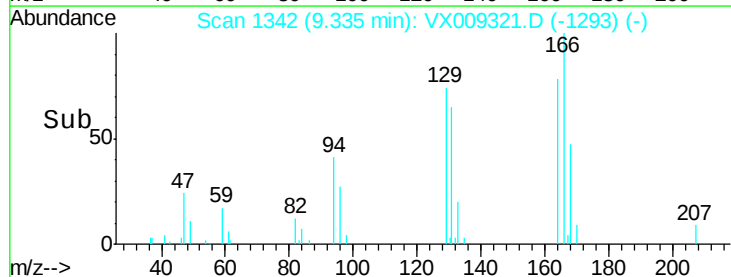
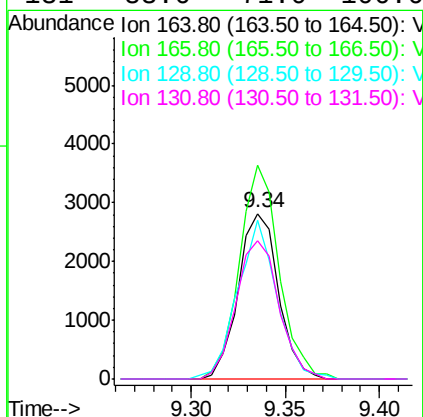
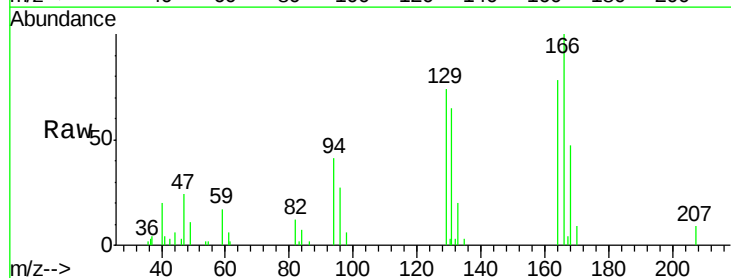
Instrument :
MSVOA_X
ClientSampleId :
SS052MW351-190502

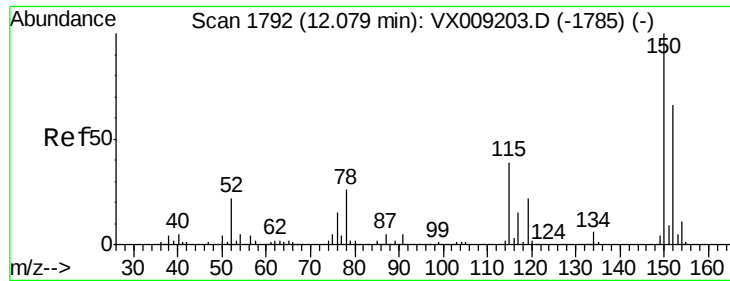
Tot Ion:117 Resp: 274949
Ion Ratio Lower Upper
117 100
82 61.6 48.8 73.2
119 32.1 25.8 38.6



#64
Tetrachloroethene
Concen: 2.213 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX009321.D
Acq: 03 May 2019 19:47

Tgt Ion:164 Resp: 4173
Ion Ratio Lower Upper
164 100
166 129.0 101.2 151.8
129 96.0 74.3 111.5
131 83.6 71.0 106.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX009321.D

Acq: 03 May 2019 19:47

Instrument :

MSVOA_X

ClientSampleId :

SS052MW351-190502

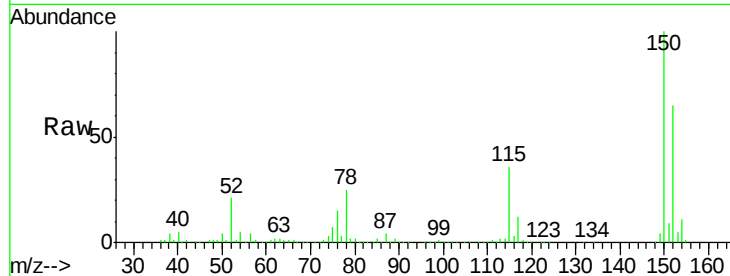
Tot Ion:152 Resp: 119191

Ion Ratio Lower Upper

152 100

115 58.9 41.2 123.6

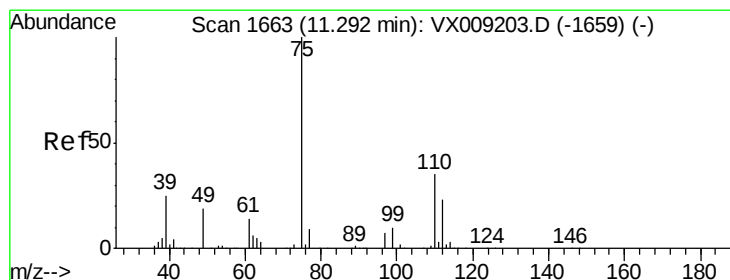
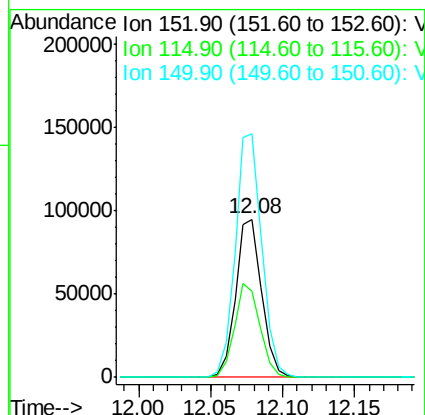
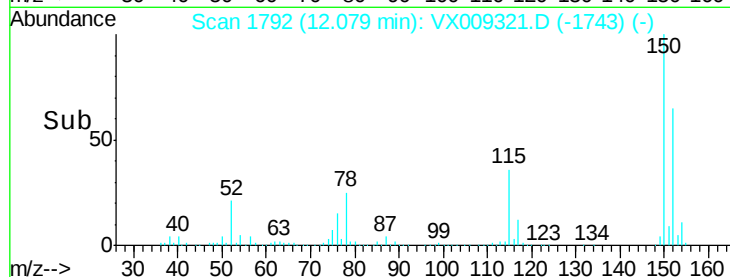
150 157.3 0.0 346.4



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: 24.008 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009321.D

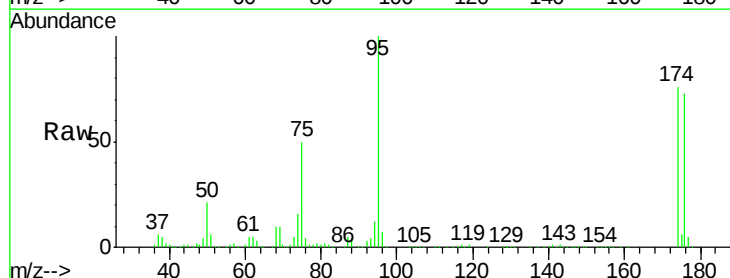
Acq: 03 May 2019 19:47

Tgt Ion: 75 Resp: 66377

Ion Ratio Lower Upper

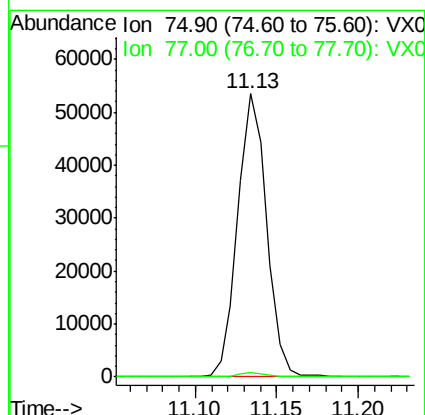
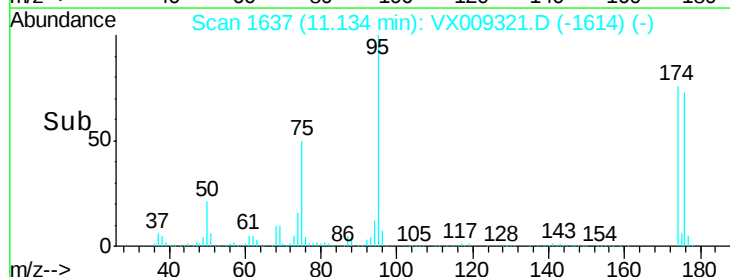
75 100

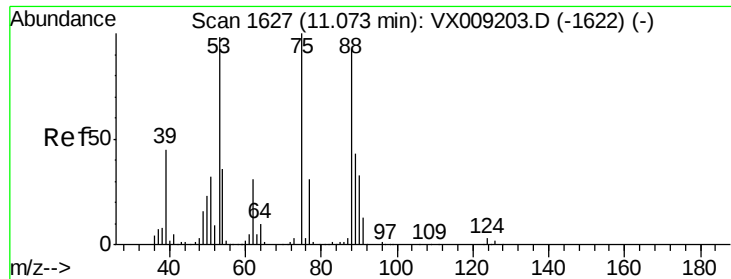
77 1.5 22.1 66.1#



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: 61.428 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009321.D

Acq: 03 May 2019 19:47

Instrument :

MSVOA_X

ClientSampleId :

SS052MW351-190502

Tot Ion: 75 Resp: 66377

Ion Ratio Lower Upper

75 100

53 0.0 79.0 118.6#

89 0.1 34.7 52.1#

