

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX041819\
 Data File : VX009047.D
 Acq On : 18 Apr 2019 16:31
 Operator : JC/SP
 Sample : K2449-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS037MW302-190416

Quant Time: Apr 19 01:38:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 06:47:58 2019
 Response via : Initial Calibration

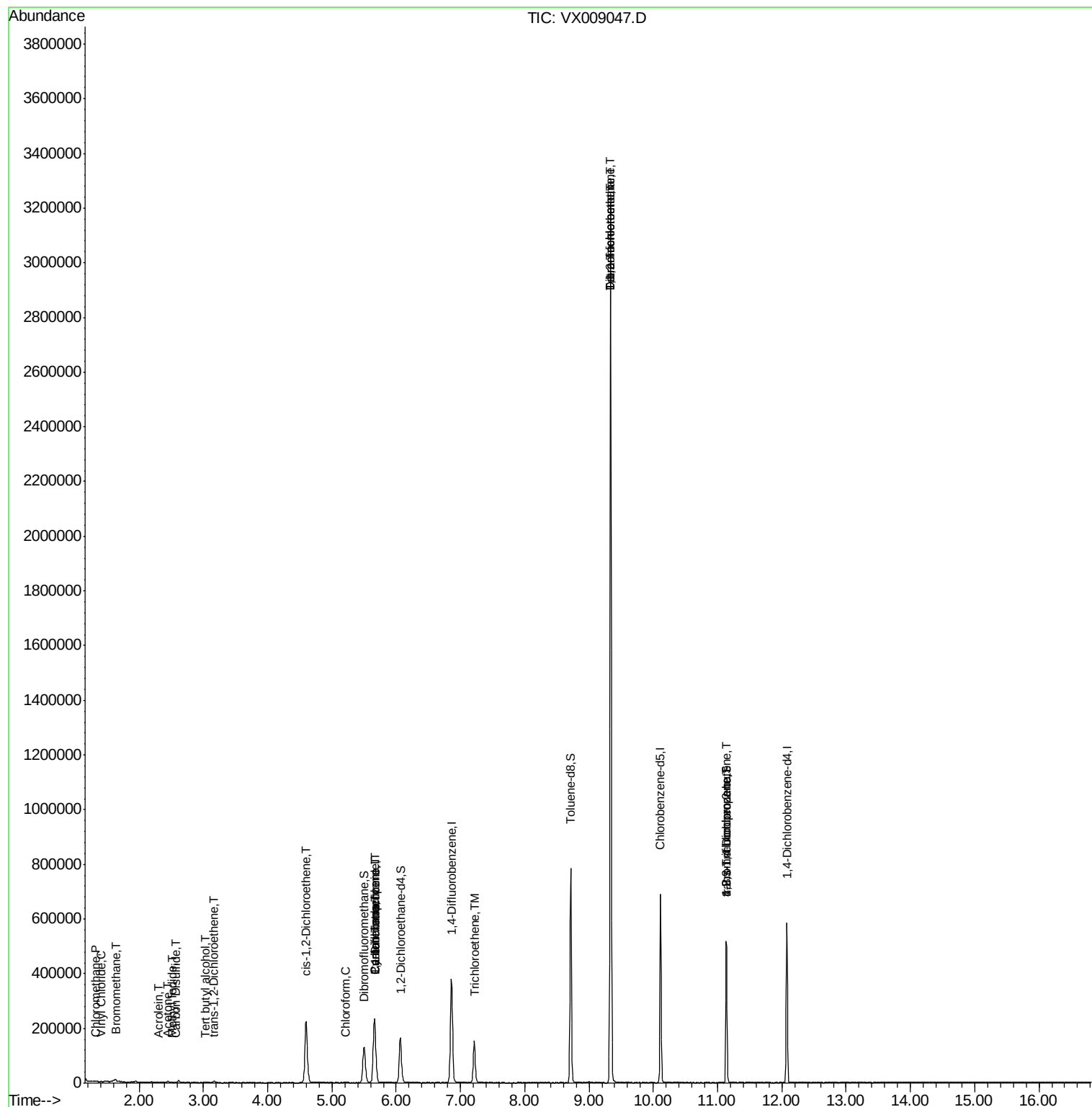
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	228892	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	371668	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	304529	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	115094	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	155735	48.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.56%	
35) Dibromofluoromethane	5.49	113	113468	47.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.14%	
50) Toluene-d8	8.71	98	457173	48.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.12%	
62) 4-Bromofluorobenzene	11.13	95	138602	41.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.56%	
Target Compounds				Qvalue		
3) Chloromethane	1.33	50	753	0.233	ug/l #	80
4) Vinyl Chloride	1.40	62	1059	0.336	ug/l #	75
5) Bromomethane	1.64	94	163	3.925	ug/l #	3
10) Methyl Iodide	2.51	142	87	4.445	ug/l #	42
11) Tert butyl alcohol	3.03	59	727	1.015	ug/l #	72
13) Acrolein	2.31	56	150	0.242	ug/l #	36
16) Acetone	2.45	43	4584	2.740	ug/l	96
17) Carbon Disulfide	2.57	76	513	1.322	ug/l #	75
21) trans-1,2-Dichloroethene	3.17	96	2045	0.781	ug/l	84
27) cis-1,2-Dichloroethene	4.60	96	139633	46.974	ug/l	91
28) Bromochloromethane	5.01	49	41	Below Cal	#	21
30) Chloroform	5.21	83	3028	0.648	ug/l	96
31) Cyclohexane	5.66	56	5054	0.984	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	18219	4.740	ug/l #	50
38) Carbon Tetrachloride	5.66	117	22132	6.792	ug/l #	17
44) Trichloroethene	7.21	130	58149	20.929	ug/l	99
55) 1,1,2-Trichloroethane	9.34	97	4987	1.852	ug/l #	1
60) Dibromochloromethane	9.34	129	587278	227.499	ug/l #	10
64) Tetrachloroethene	9.34	164	624000	269.727	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	70472	25.076	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	70472	64.376	ug/l #	11

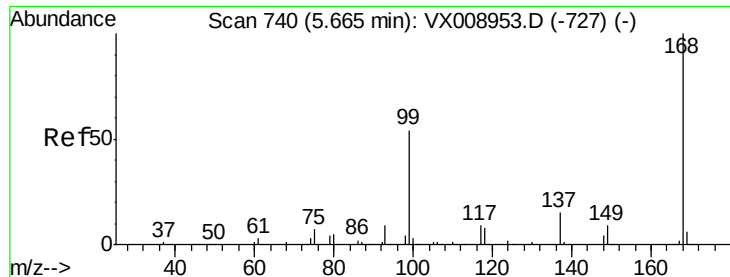
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX009047.D

Acq: 18 Apr 2019 16:31

Instrument :

MSVOA_X

ClientSampleId :

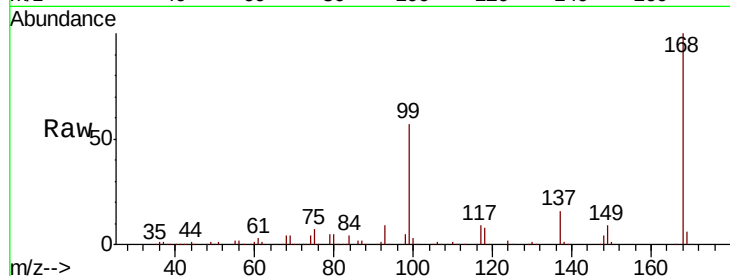
SS037MW302-190416

Tot Ion:168 Resp: 22892

Ion Ratio Lower Upper

168 100

99 56.4 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

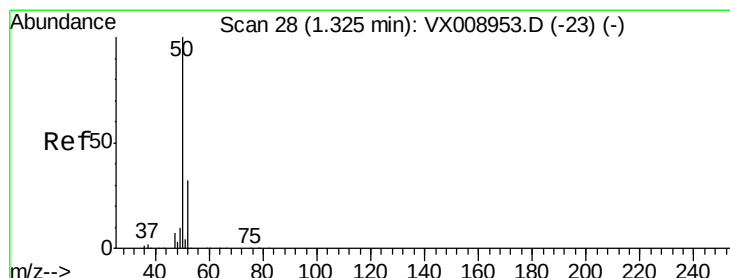
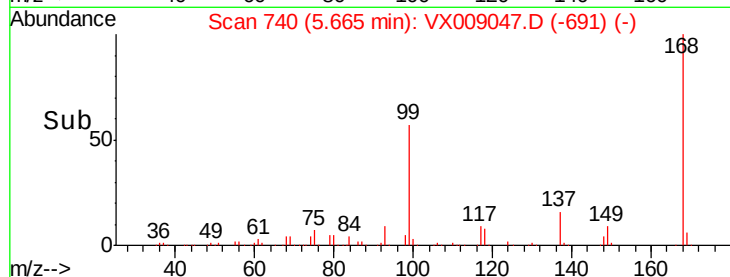
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.233 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX009047.D

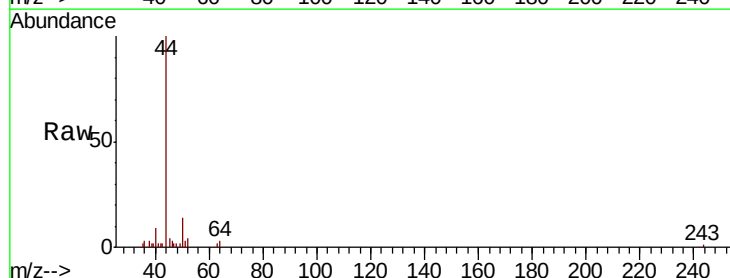
Acq: 18 Apr 2019 16:31

Tgt Ion: 50 Resp: 753

Ion Ratio Lower Upper

50 100

52 20.5 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

500

400

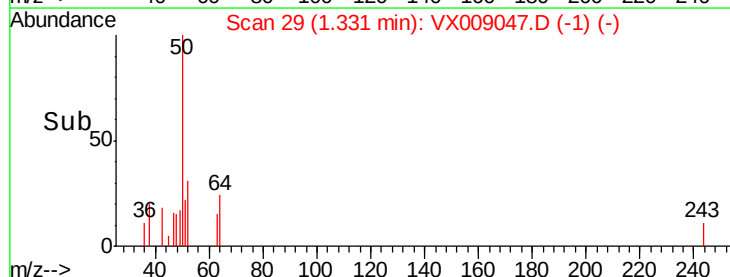
300

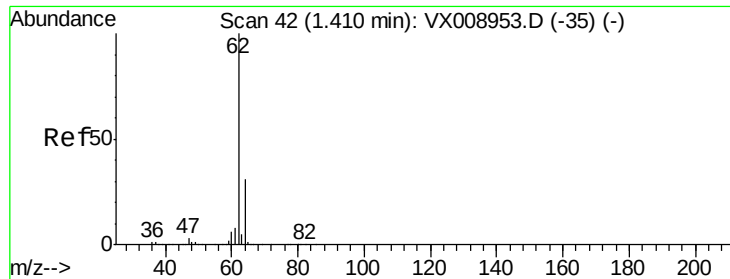
200

100

0

Time--> 1.30 1.35





#4

Vinyl Chloride

Concen: 0.336 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.01 min

Lab File: VX009047.D

Acq: 18 Apr 2019 16:31

Instrument :

MSVOA_X

ClientSampleId :

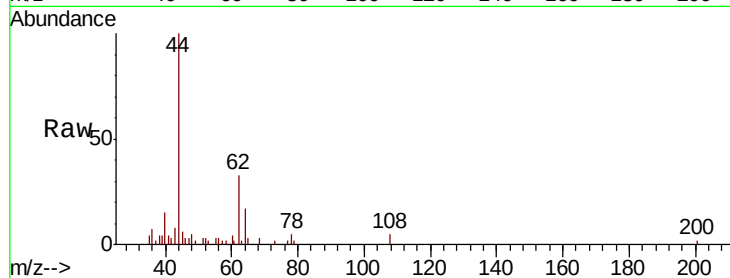
SS037MW302-190416

Tot Ion: 62 Resp: 1059

Ion Ratio Lower Upper

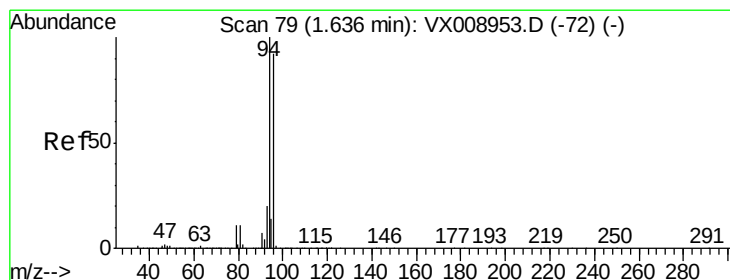
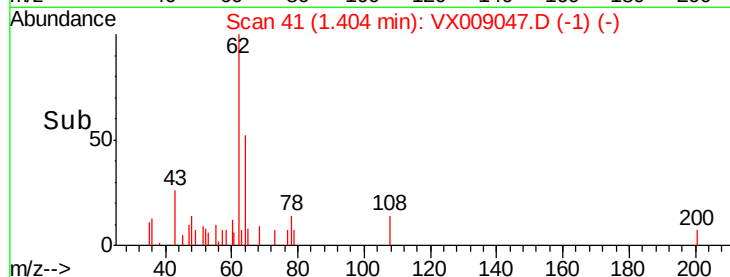
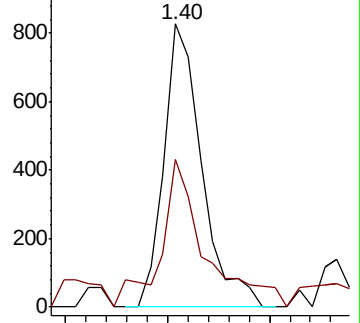
62 100

64 45.2 25.0 37.4#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 3.925 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX009047.D

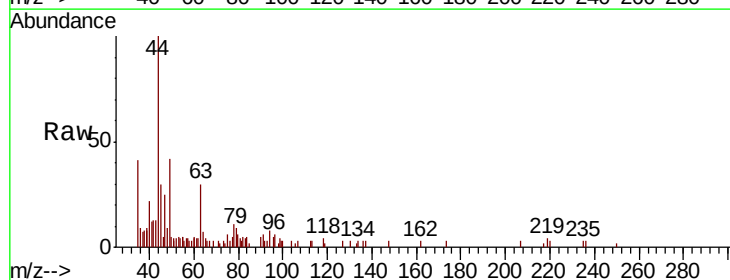
Acq: 18 Apr 2019 16:31

Tgt Ion: 94 Resp: 163

Ion Ratio Lower Upper

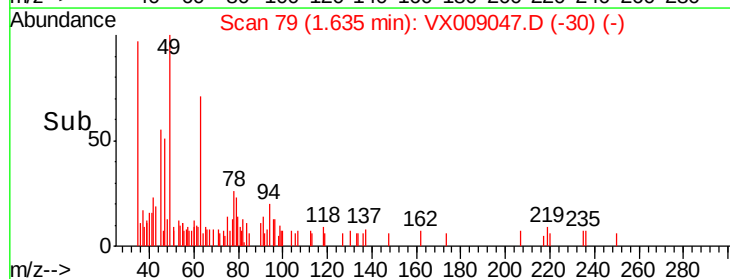
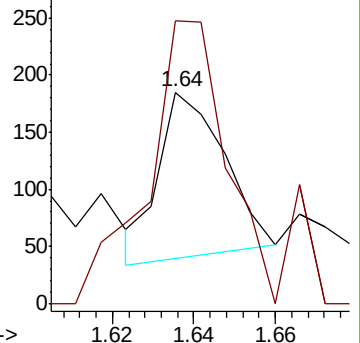
94 100

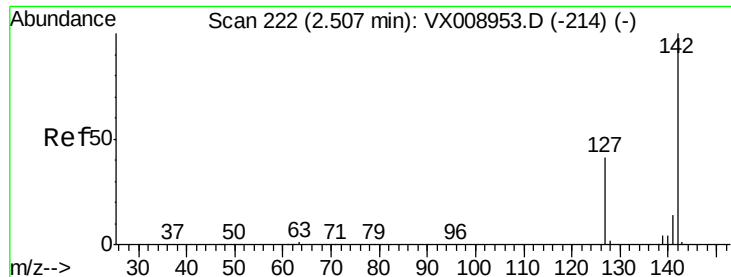
96 185.1 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

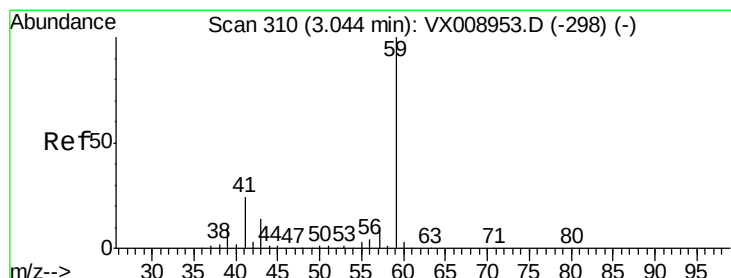
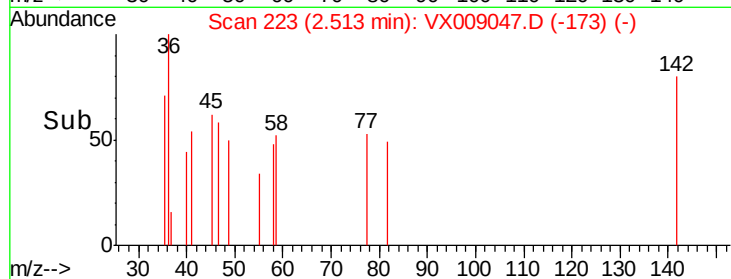
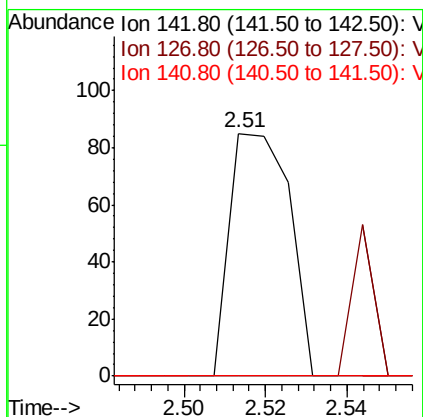
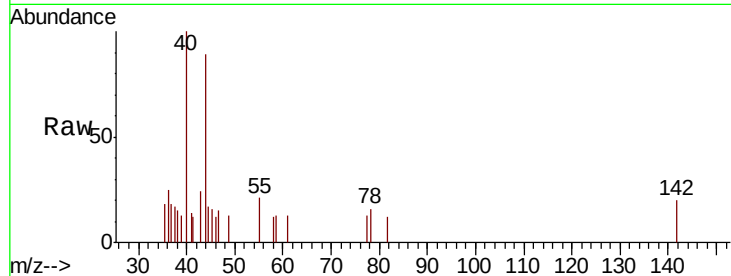




#10
Methvl Iodide
Concen: 4.445 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX009047.D
Acq: 18 Apr 2019 16:31

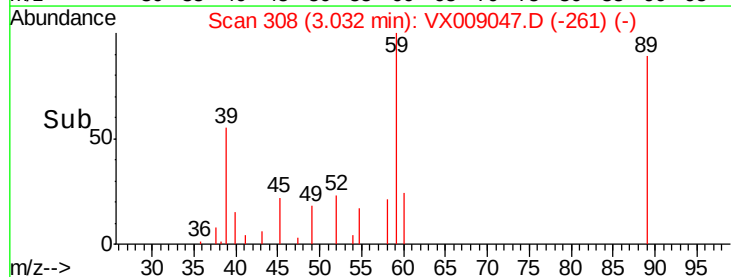
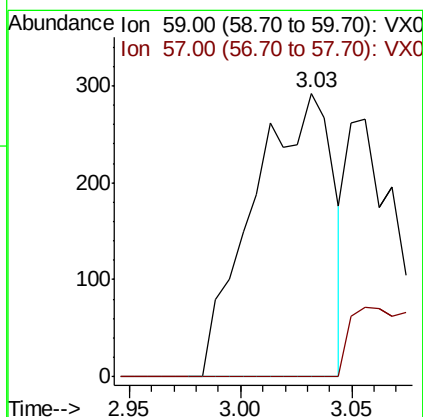
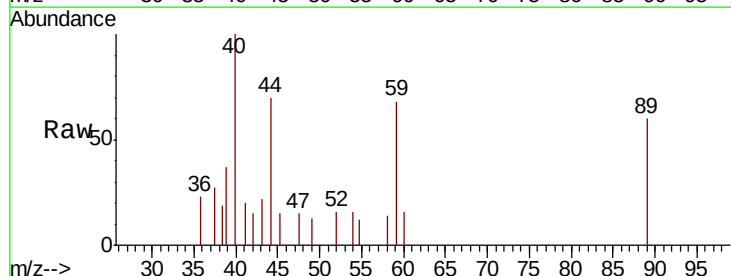
Instrument :
MSVOA_X
ClientSampleId :
SS037MW302-190416

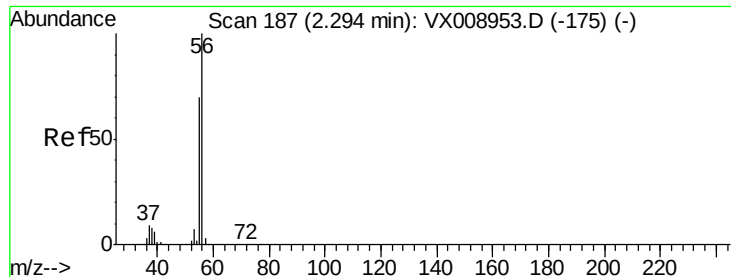
Tot Ion:142 Resp: 87
Ion Ratio Lower Upper
142 100
127 0.0 32.8 49.2#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 1.015 ug/l
RT: 3.03 min Scan# 308
Delta R.T. -0.01 min
Lab File: VX009047.D
Acq: 18 Apr 2019 16:31

Tgt Ion: 59 Resp: 727
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#





#13

Acrolein

Concen: 0.242 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX009047.D

Acq: 18 Apr 2019 16:31

Instrument :

MSVOA_X

ClientSampleId :

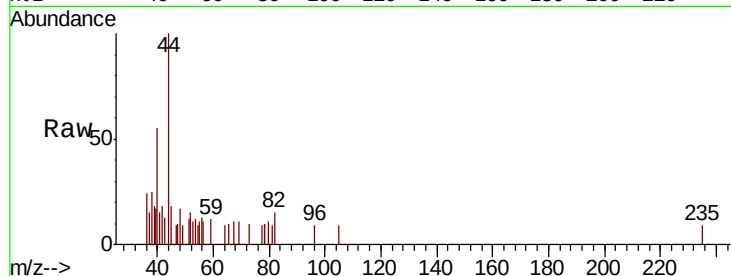
SS037MW302-190416

Tot Ion: 56 Resp: 150

Ion Ratio Lower Upper

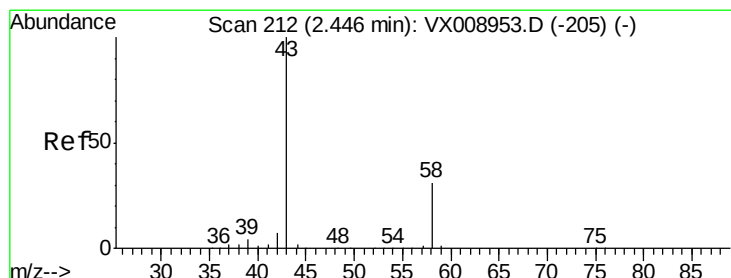
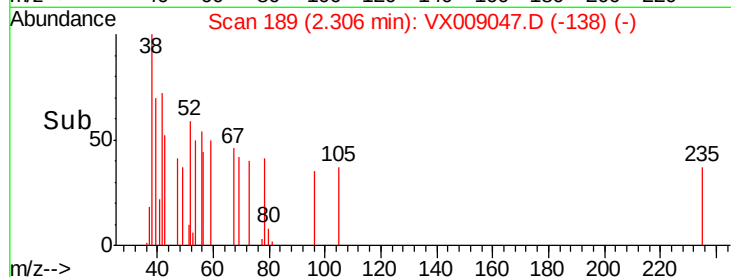
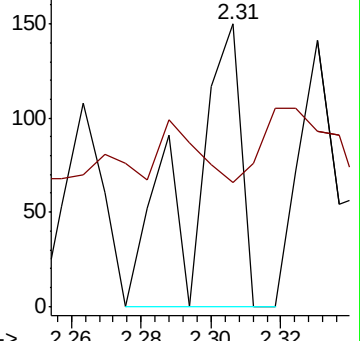
56 100

55 18.0 56.6 84.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 2.740 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009047.D

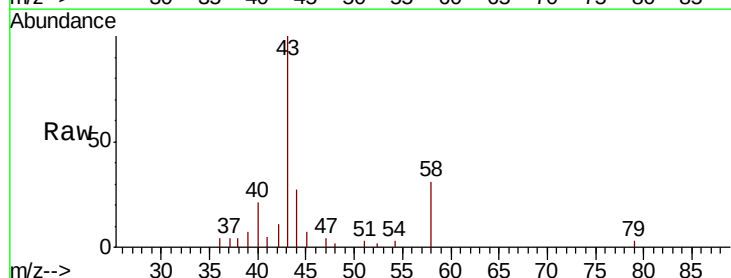
Acq: 18 Apr 2019 16:31

Tgt Ion: 43 Resp: 4584

Ion Ratio Lower Upper

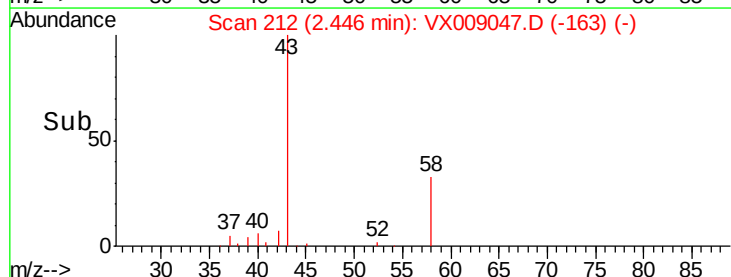
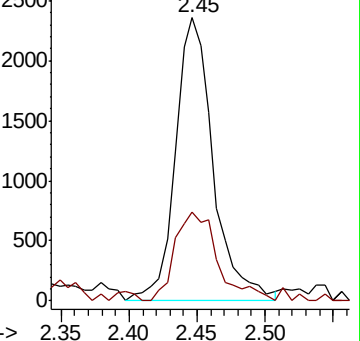
43 100

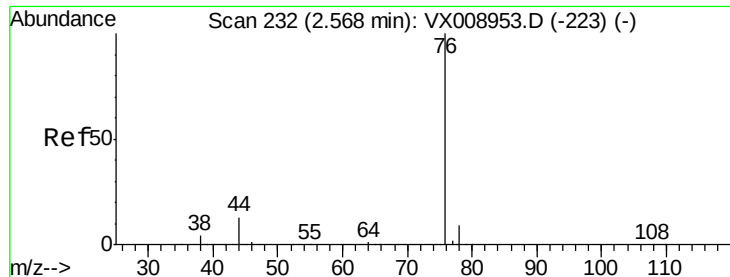
58 29.0 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 1.322 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009047.D

Acq: 18 Apr 2019 16:31

Instrument :

MSVOA_X

ClientSampleId :

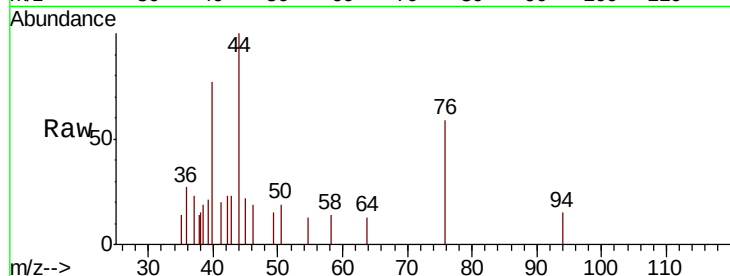
SS037MW302-190416

Tot Ion: 76 Resp: 513

Ion Ratio Lower Upper

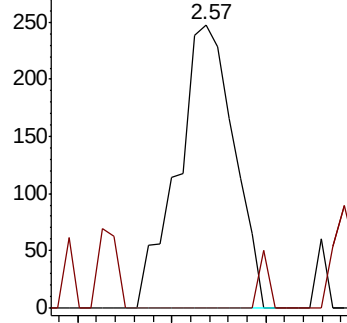
76 100

78 0.0 7.2 10.8#

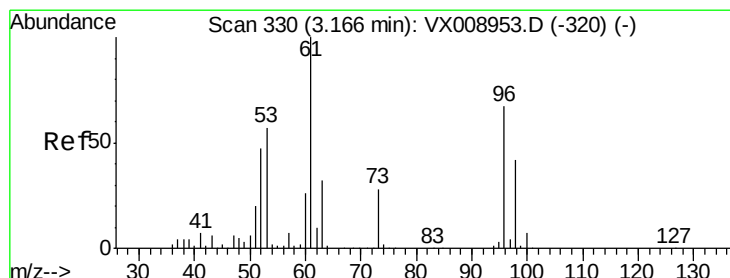
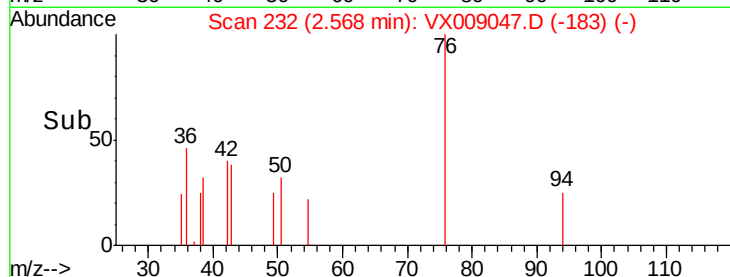


Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



Time-->



#21

trans-1,2-Dichloroethene

Concen: 0.781 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX009047.D

Acq: 18 Apr 2019 16:31

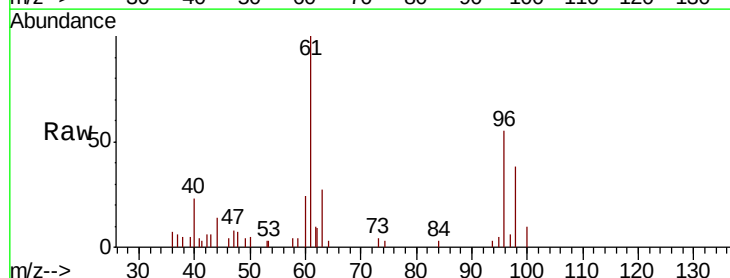
Tgt Ion: 96 Resp: 2045

Ion Ratio Lower Upper

96 100

61 174.8 120.3 180.5

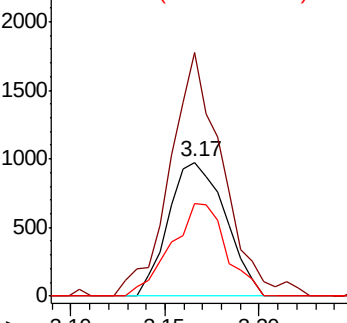
98 69.6 50.2 75.2



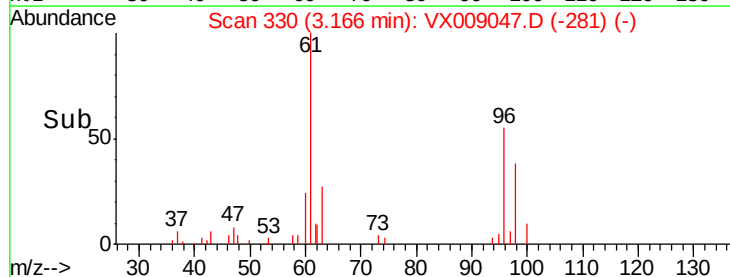
Abundance Ion 95.90 (95.60 to 96.60): VX0

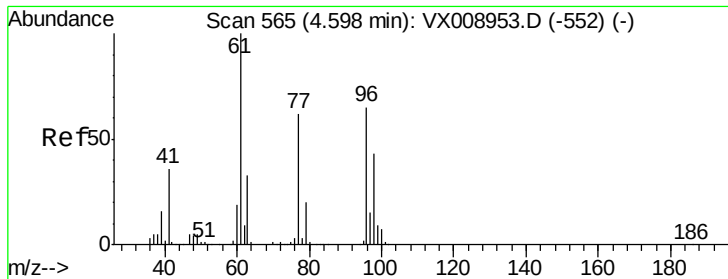
Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



Time-->



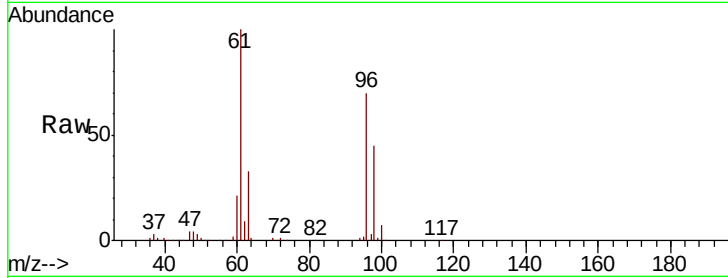


#27

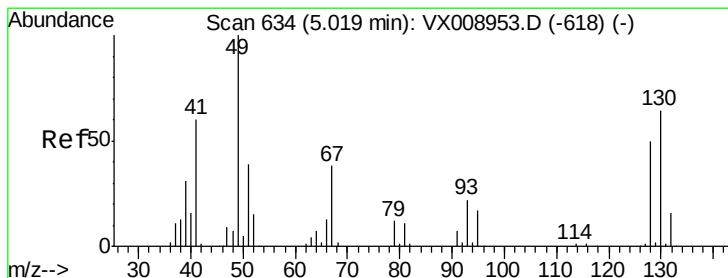
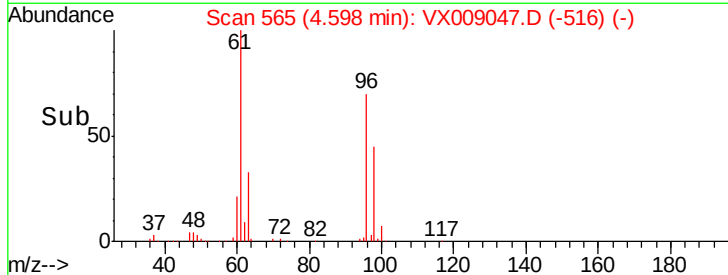
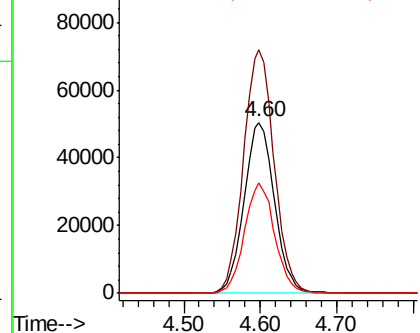
cis-1,2-Dichloroethene
 Concen: 46.974 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. -0.00 min
 Lab File: VX009047.D
 Acq: 18 Apr 2019 16:31

Instrument :
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 SS037MW302-190416

Tot Ion	Ratio	Lower	Upper
96	100		
61	144.1	0.0	322.0
98	64.2	0.0	128.4



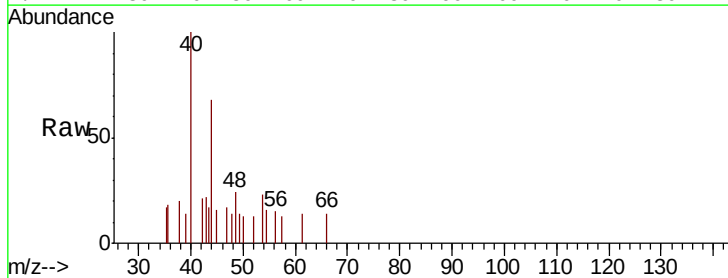
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



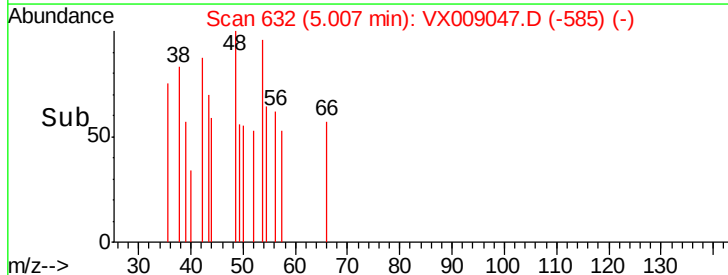
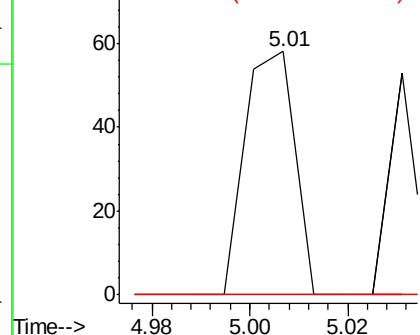
#28

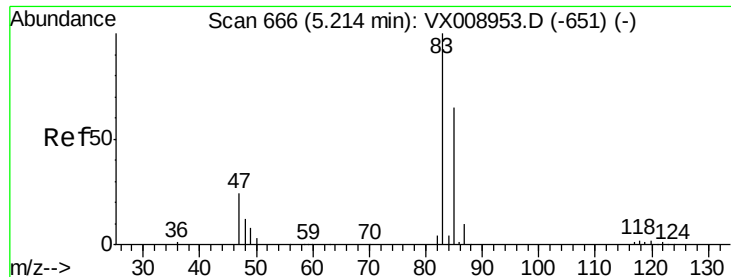
Bromochloromethane
 Concen: Below Cal
 RT: 5.01 min Scan# 632
 Delta R.T. -0.01 min
 Lab File: VX009047.D
 Acq: 18 Apr 2019 16:31

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	0.0	50.4	75.6#



Abundance Ion 48.90 (48.60 to 49.60): VX0
 Ion 128.80 (128.50 to 129.50): V
 Ion 129.80 (129.50 to 130.50): V

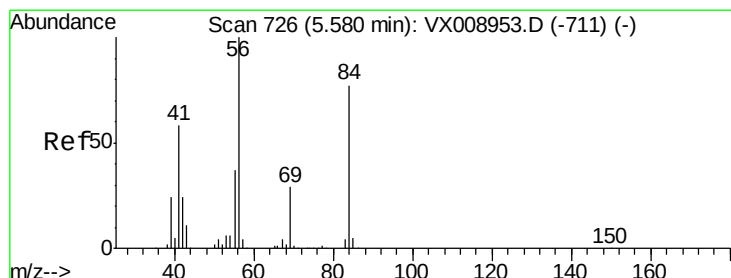
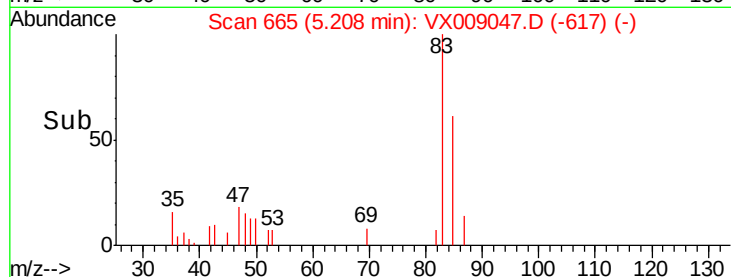
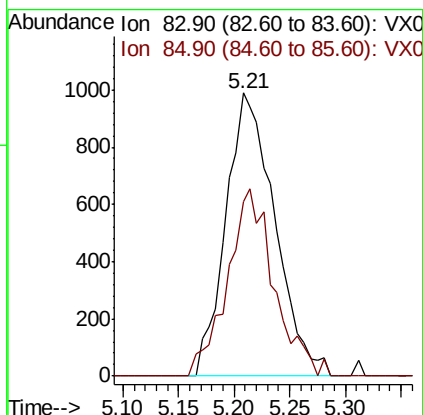
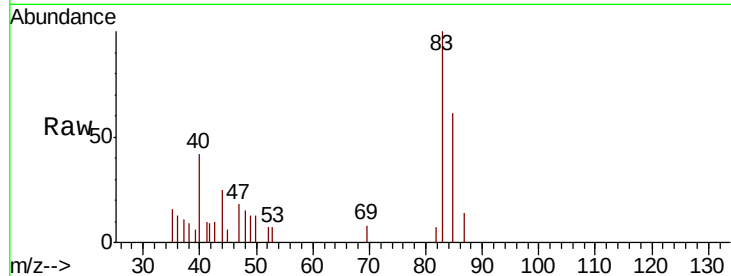




#30
Chloroform
Concen: 0.648 ug/l
RT: 5.21 min Scan# 665
Delta R.T. -0.01 min
Lab File: VX009047.D
Acq: 18 Apr 2019 16:31

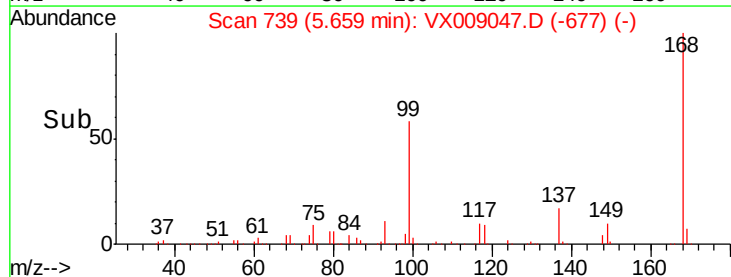
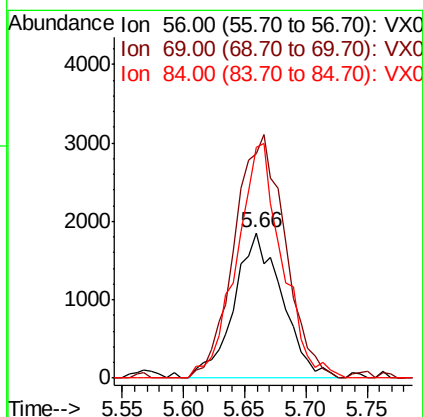
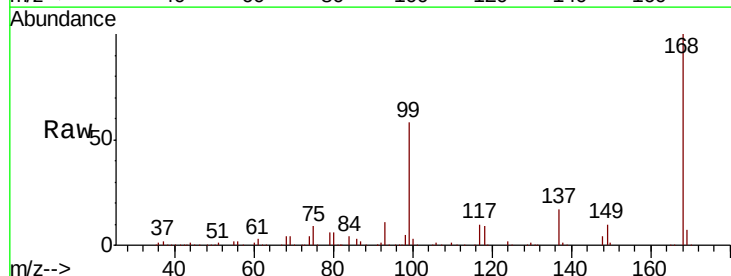
Instrument :
MSVOA_X
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SS037MW302-190416

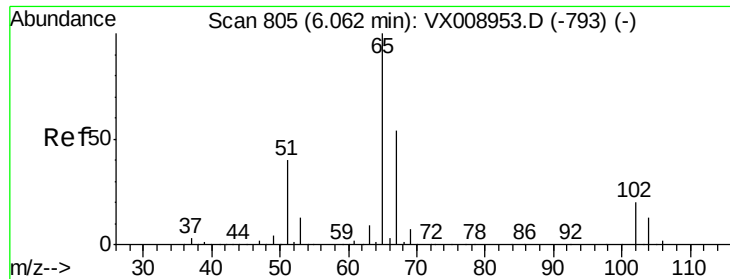
Tot Ion: 83 Resp: 3028
Ion Ratio Lower Upper
83 100
85 61.5 51.9 77.9



#31
Cyclohexane
Concen: 0.984 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX009047.D
Acq: 18 Apr 2019 16:31

Tgt Ion: 56 Resp: 5054
Ion Ratio Lower Upper
56 100
69 154.0 23.3 34.9#
84 158.7 61.7 92.5#

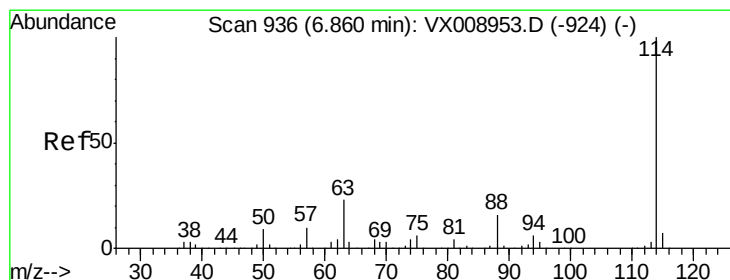
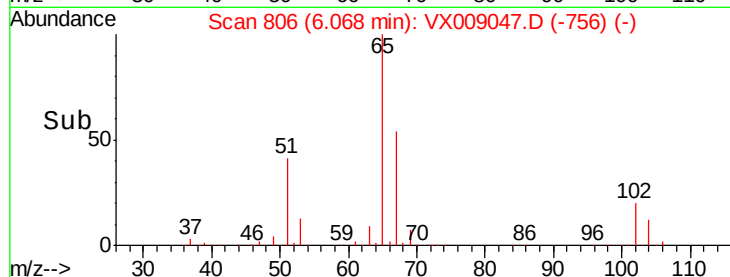
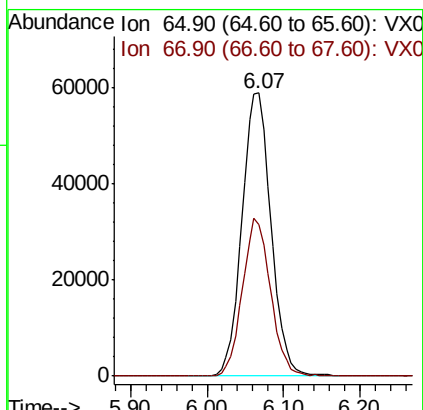
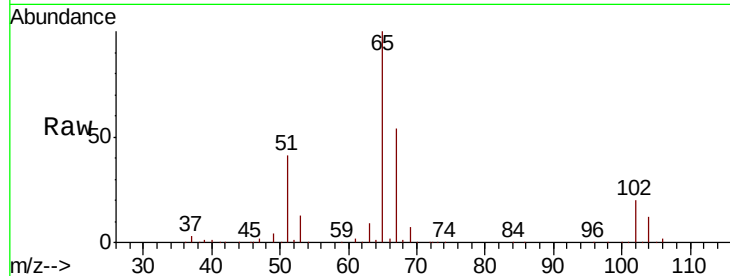




#33
 1,2-Dichloroethane-d4
 Concen: 48.279 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.01 min
 Lab File: VX009047.D
 Acq: 18 Apr 2019 16:31

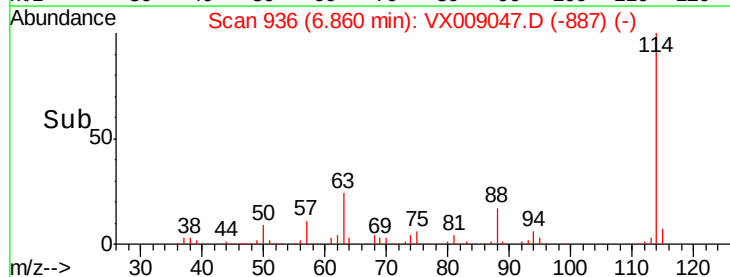
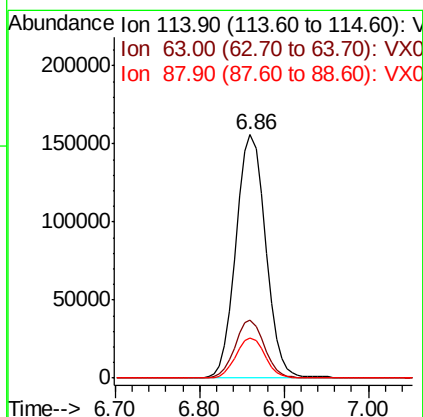
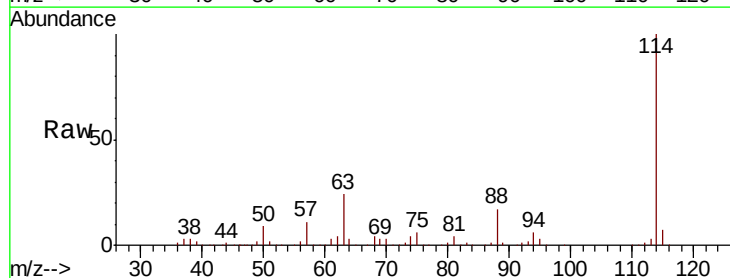
Instrument :
 MSVOA_X
 ClientSampleId :
 SS037MW302-190416

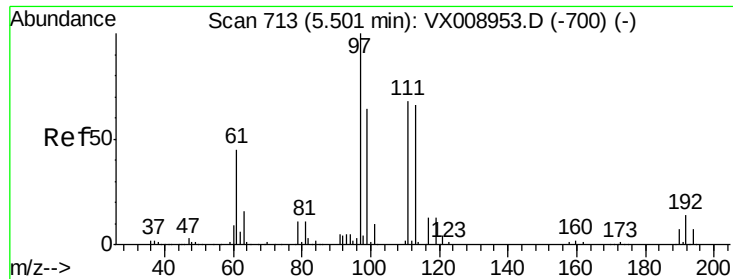
Tot Ion: 65 Resp: 155735
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX009047.D
 Acq: 18 Apr 2019 16:31

Tgt Ion: 114 Resp: 371668
 Ion Ratio Lower Upper
 114 100
 63 23.7 0.0 46.0
 88 16.5 0.0 32.6

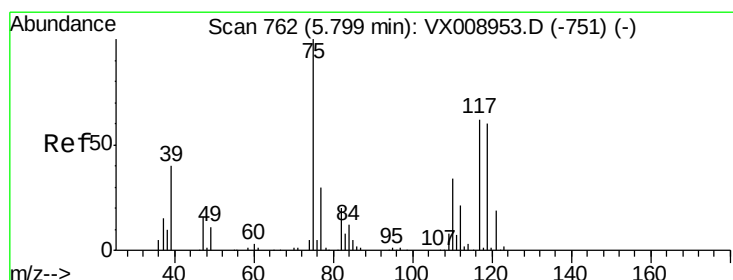
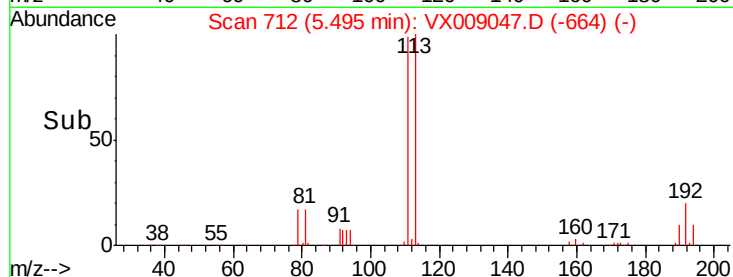
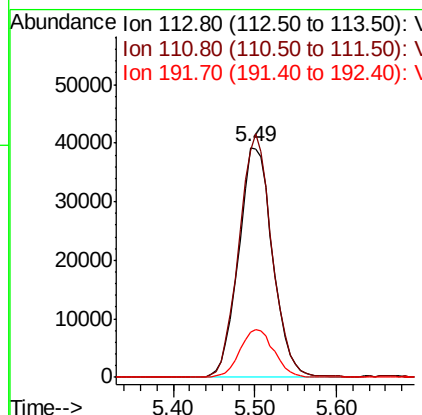
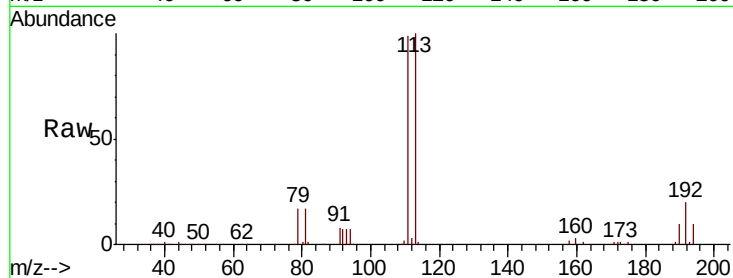




#35
 Dibromofluoromethane
 Concen: 47.570 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. -0.01 min
 Lab File: VX009047.D
 Acq: 18 Apr 2019 16:31

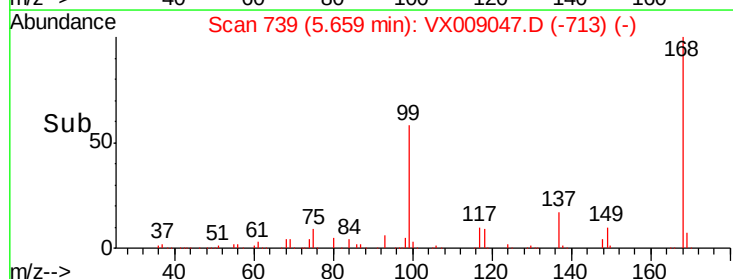
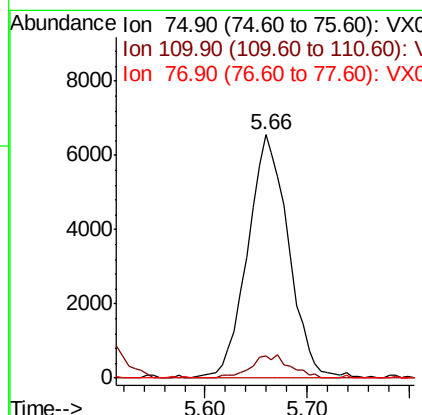
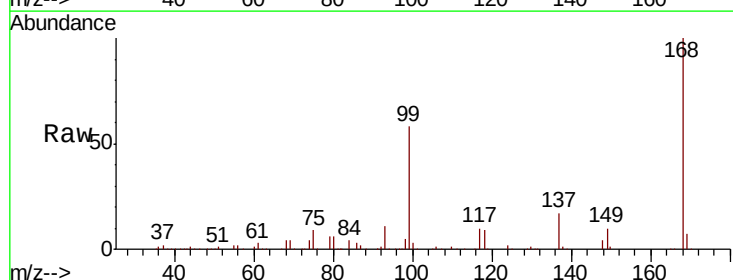
Instrument :
 MSVOA_X
 ClientSampleId :
 SS037MW302-190416

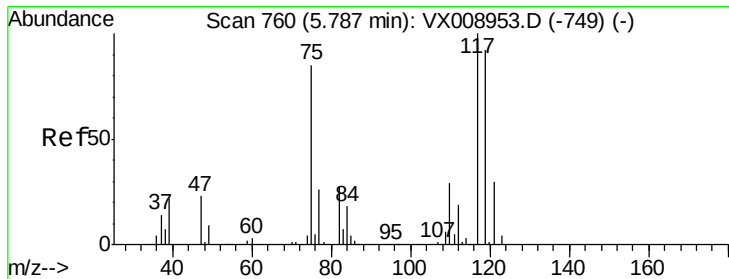
Tot Ion:113 Resp: 113468
 Ion Ratio Lower Upper
 113 100
 111 102.8 82.9 124.3
 192 20.9 17.4 26.0



#36
 1,1-Dichloropropene
 Concen: 4.740 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009047.D
 Acq: 18 Apr 2019 16:31

Tgt Ion: 75 Resp: 18219
 Ion Ratio Lower Upper
 75 100
 110 9.2 16.9 50.7#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.792 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX009047.D

Acq: 18 Apr 2019 16:31

Instrument :

MSVOA_X

ClientSampleId :

SS037MW302-190416

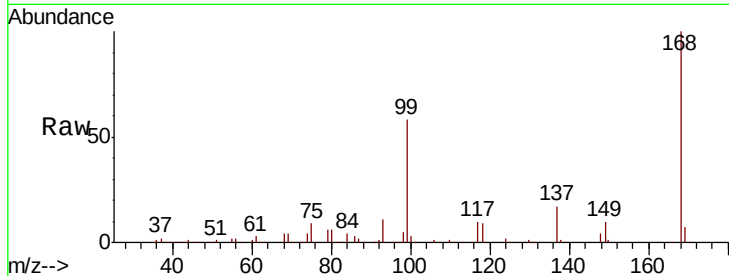
Tot Ion:117 Resp: 22132

Ion Ratio Lower Upper

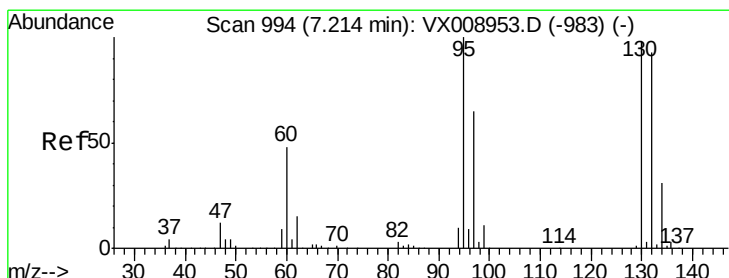
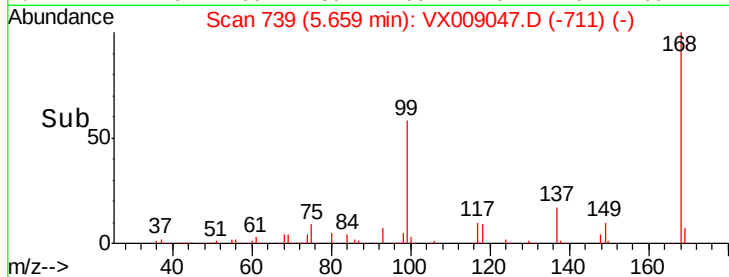
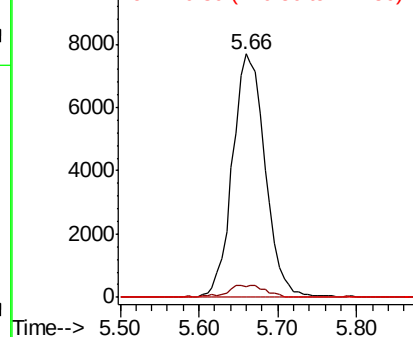
117 100

119 4.6 73.8 110.8#

121 0.0 23.6 35.4#



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: 20.929 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX009047.D

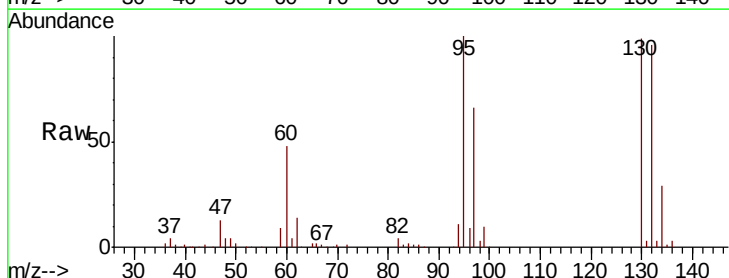
Acq: 18 Apr 2019 16:31

Tgt Ion:130 Resp: 58149

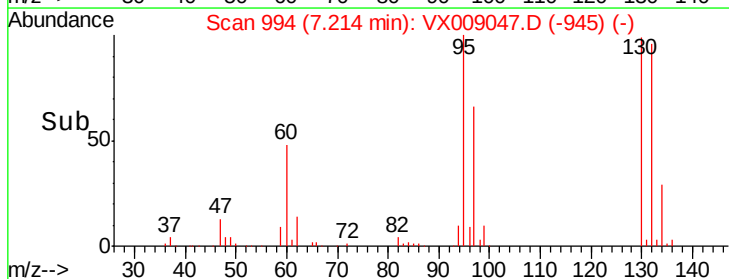
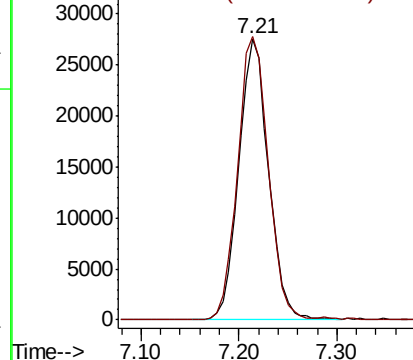
Ion Ratio Lower Upper

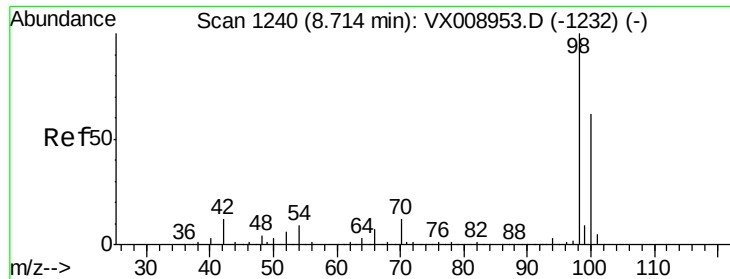
130 100

95 100.8 0.0 203.2



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





#50

Toluene-d8

Concen: 48.060 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009047.D

Acq: 18 Apr 2019 16:31

Instrument :

MSVOA_X

ClientSampleId :

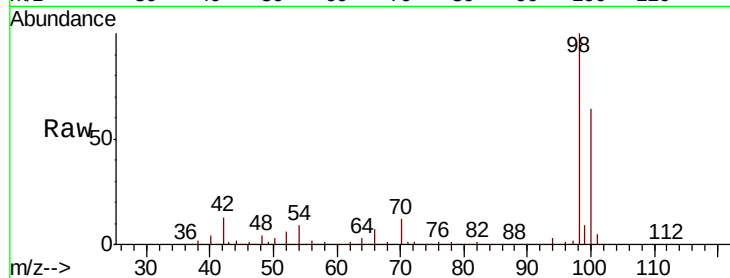
SS037MW302-190416

Tot Ion: 98 Resp: 457173

Ion Ratio Lower Upper

98 100

100 64.3 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

300000

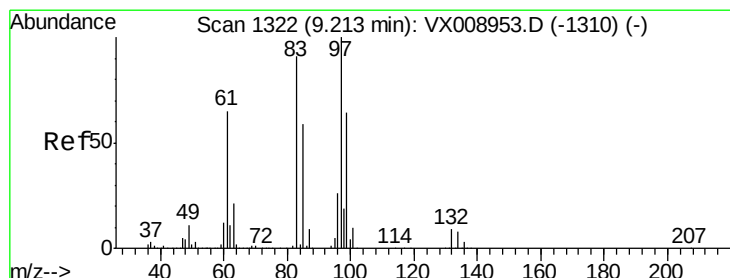
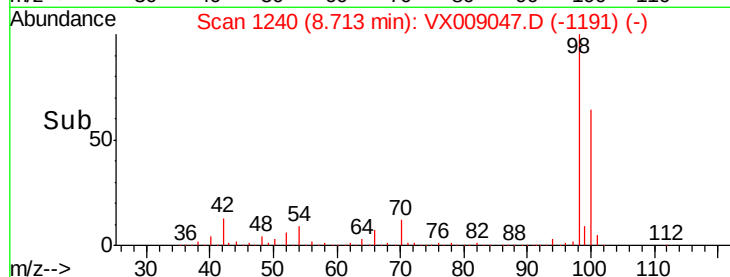
200000

100000

0

Time-->

8.60 8.70 8.80



#55

1,1,2-Trichloroethane

Concen: 1.852 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.12 min

Lab File: VX009047.D

Acq: 18 Apr 2019 16:31

Tgt Ion: 97 Resp: 4987

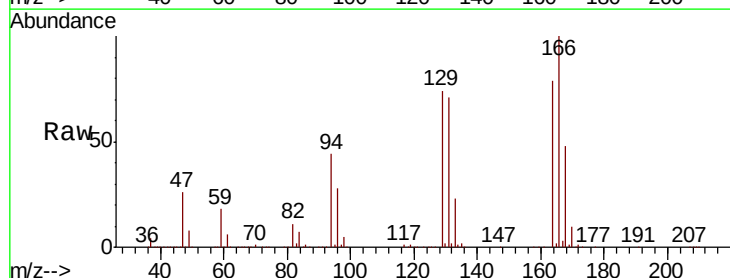
Ion Ratio Lower Upper

97 100

83 315.2 72.6 108.8#

85 45.3 46.9 70.3#

99 16.8 51.0 76.6#



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

15000

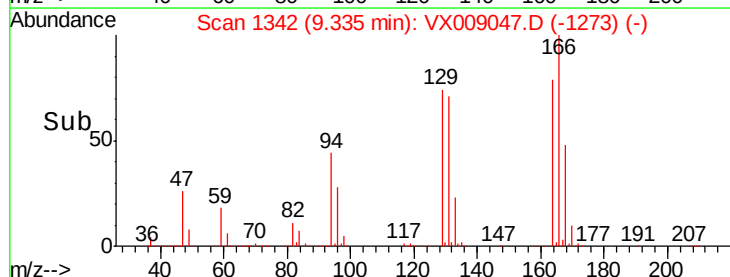
10000

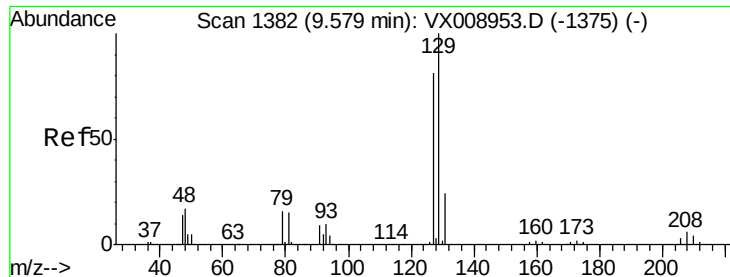
5000

0

Time-->

9.30 9.35 9.40

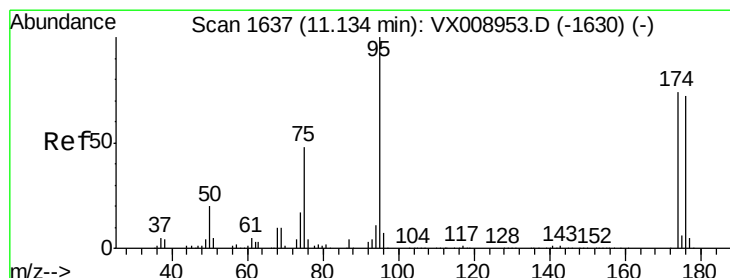
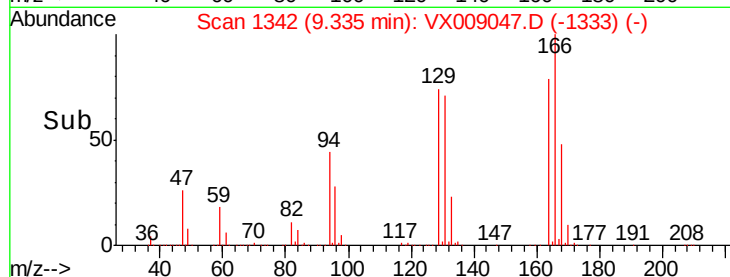
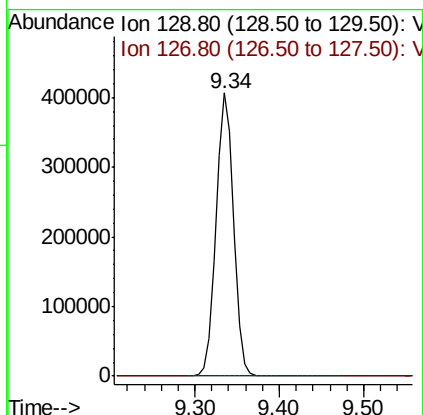
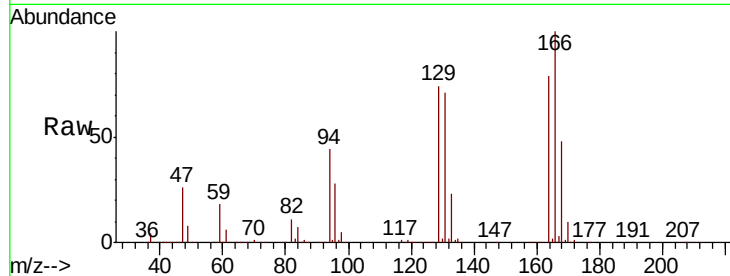




#60
 Dibromochloromethane
 Concen: 227.499 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. -0.24 min
 Lab File: VX009047.D
 Acq: 18 Apr 2019 16:31

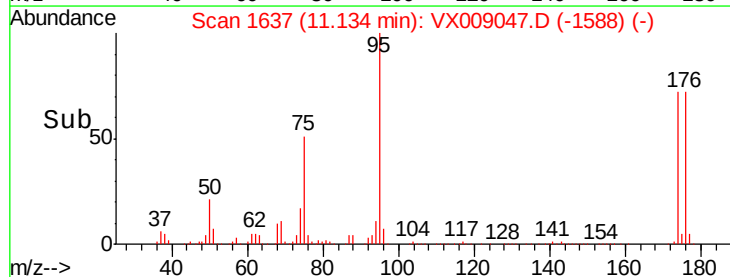
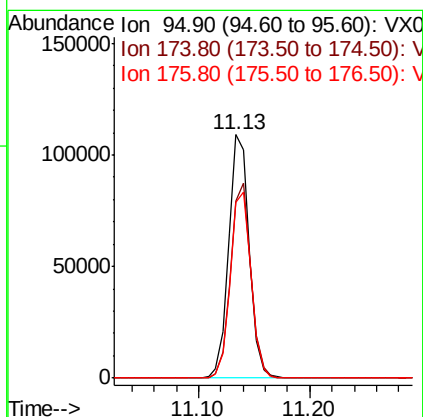
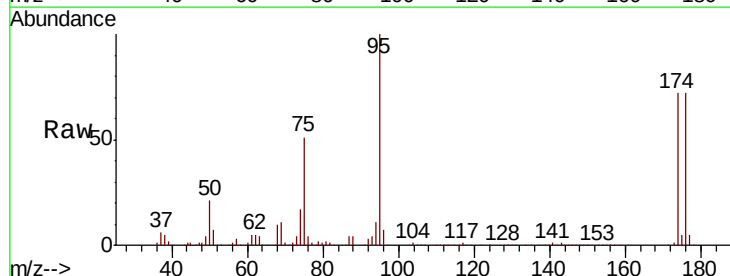
Instrument :
 MSVOA_X
 ClientSampleId :
 SS037MW302-190416

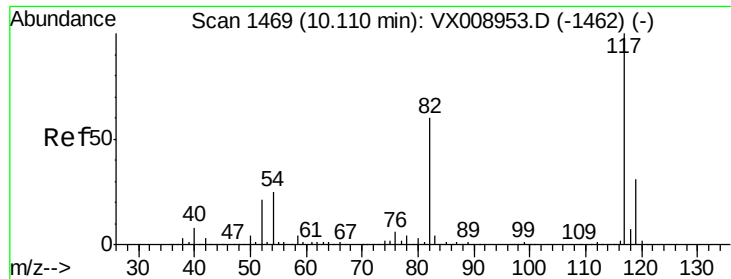
Tot Ion:129 Resp: 587278
 Ion Ratio Lower Upper
 129 100
 127 0.1 39.1 117.2#



#62
 4-Bromofluorobenzene
 Concen: 41.276 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.00 min
 Lab File: VX009047.D
 Acq: 18 Apr 2019 16:31

Tgt Ion: 95 Resp: 138602
 Ion Ratio Lower Upper
 95 100
 174 79.2 0.0 159.6
 176 77.5 0.0 154.8

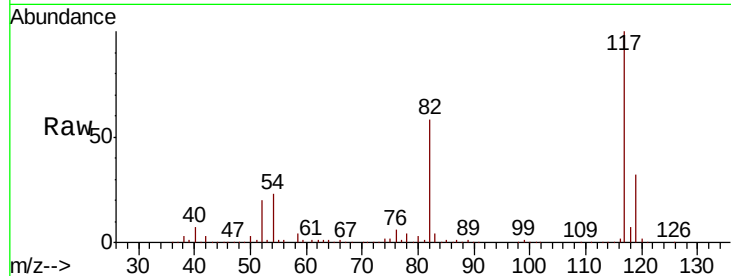




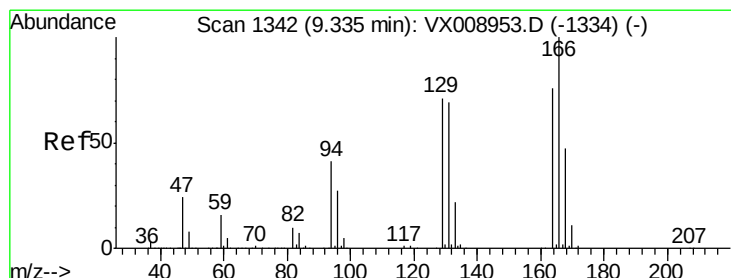
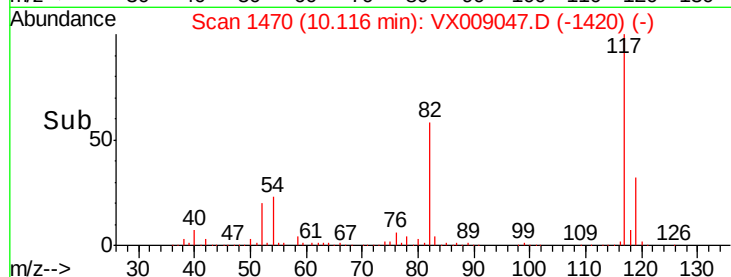
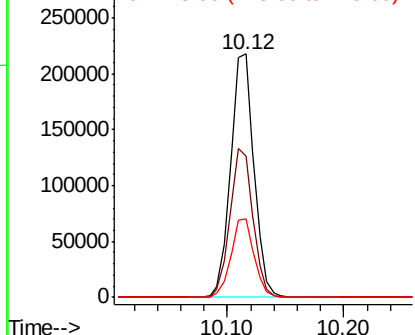
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX009047.D
Acq: 18 Apr 2019 16:31

Instrument :
MSVOA_X
ClientSampleId :
SS037MW302-190416

Tot Ion:117 Resp: 304529
Ion Ratio Lower Upper
117 100
82 58.2 48.2 72.4
119 32.3 25.0 37.6



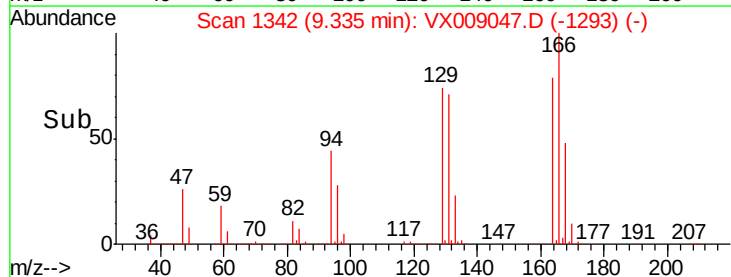
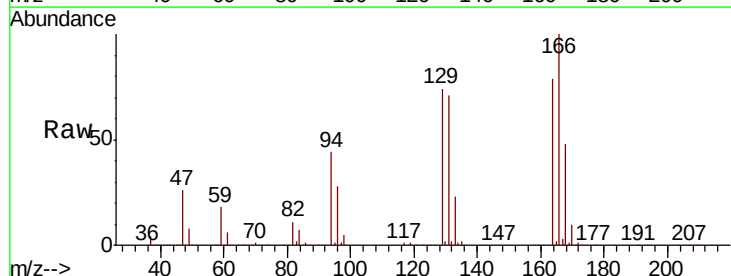
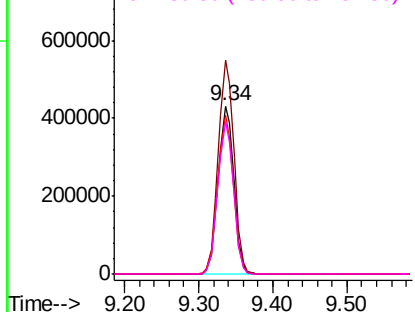
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

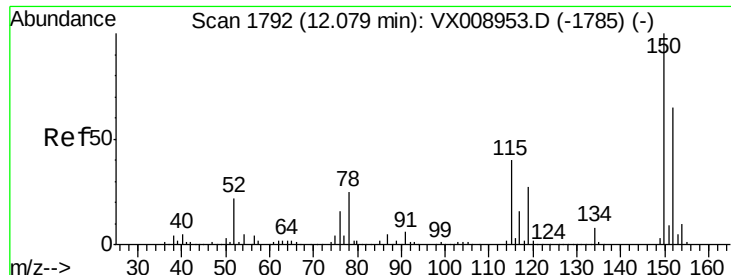


#64
Tetrachloroethene
Concen: 269.727 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX009047.D
Acq: 18 Apr 2019 16:31

Tgt Ion:164 Resp: 624000
Ion Ratio Lower Upper
164 100
166 127.2 105.0 157.4
129 94.2 74.2 111.4
131 90.6 72.2 108.2

Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): 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: VX009047.D

Acq: 18 Apr 2019 16:31

Instrument :

MSVOA_X

ClientSampleId :

SS037MW302-190416

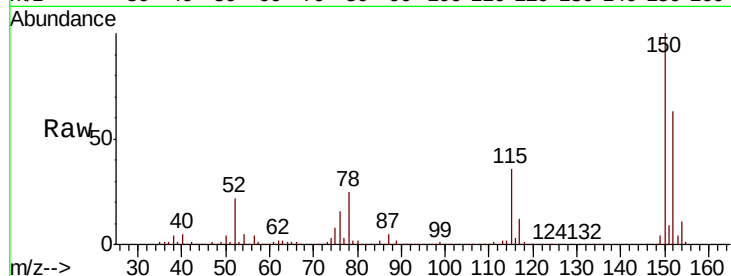
Tot Ion:152 Resp: 115094

Ion Ratio Lower Upper

152 100

115 58.3 41.4 124.2

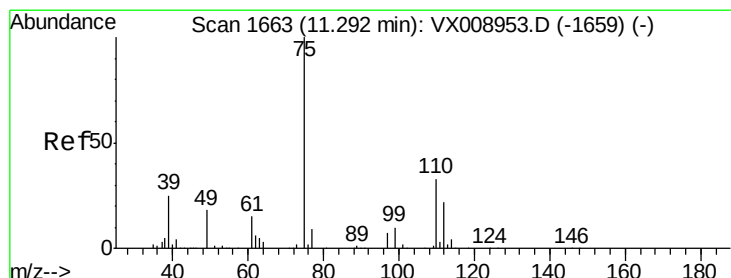
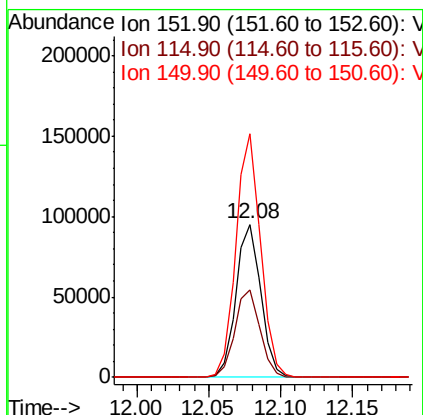
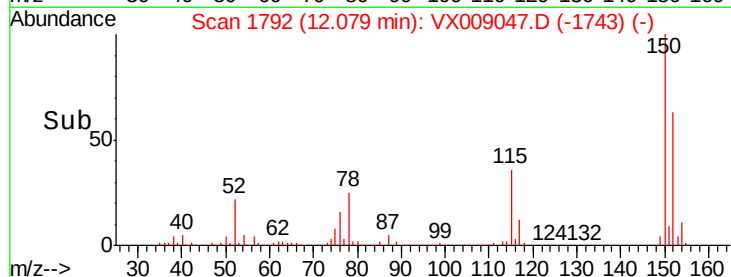
150 157.6 0.0 349.8



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: 25.076 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009047.D

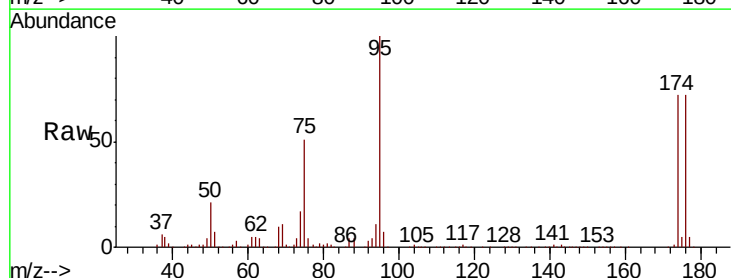
Acq: 18 Apr 2019 16:31

Tgt Ion: 75 Resp: 70472

Ion Ratio Lower Upper

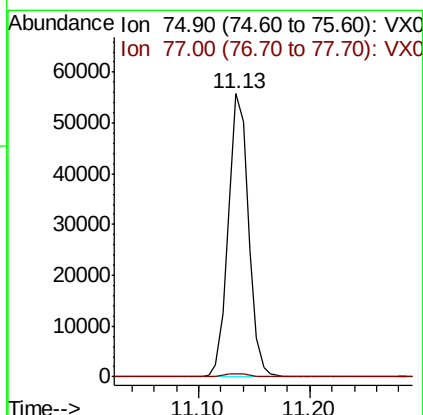
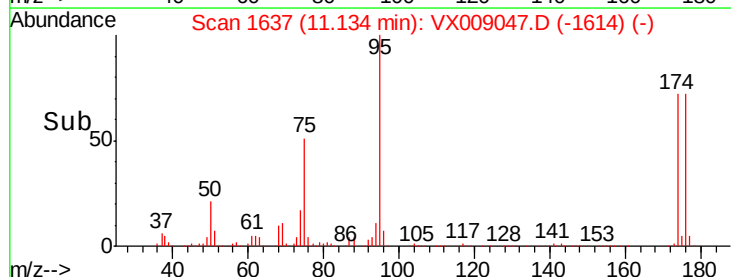
75 100

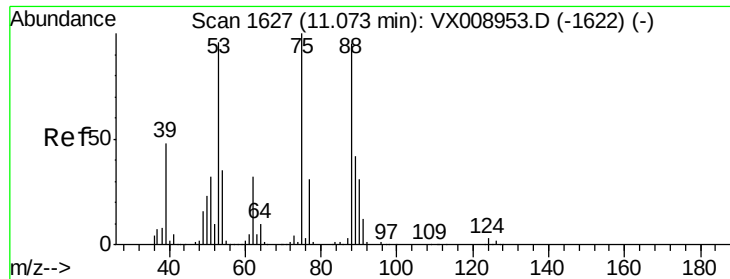
77 1.4 22.7 68.0#



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: 64.376 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009047.D

Acq: 18 Apr 2019 16:31

Instrument :

MSVOA_X

ClientSampleId :

SS037MW302-190416

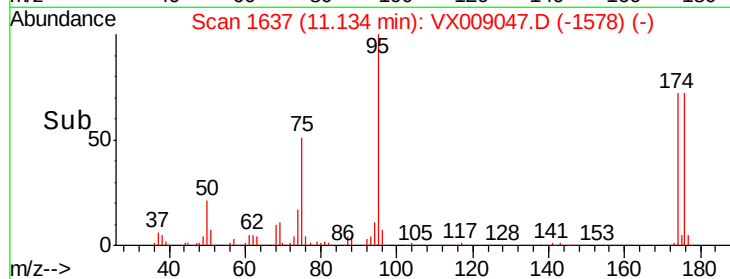
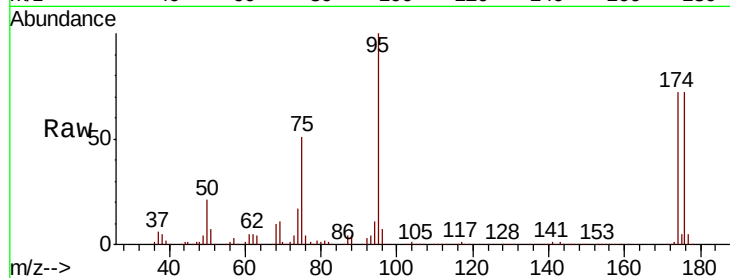
Tot Ion: 75 Resp: 70472

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.0 36.0 54.0#



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

