

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX080819\
 Data File : VX011384.D
 Acq On : 08 Aug 2019 12:08
 Operator : JC/SP
 Sample : K4220-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-25S_080619

Quant Time: Aug 09 04:22:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	150421	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	246311	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	234000	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	108108	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	88749	58.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.18%	
35) Dibromofluoromethane	5.49	113	81578	50.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.46%	
50) Toluene-d8	8.71	98	300136	49.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.88%	
62) 4-Bromofluorobenzene	11.13	95	103793	47.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.78%	

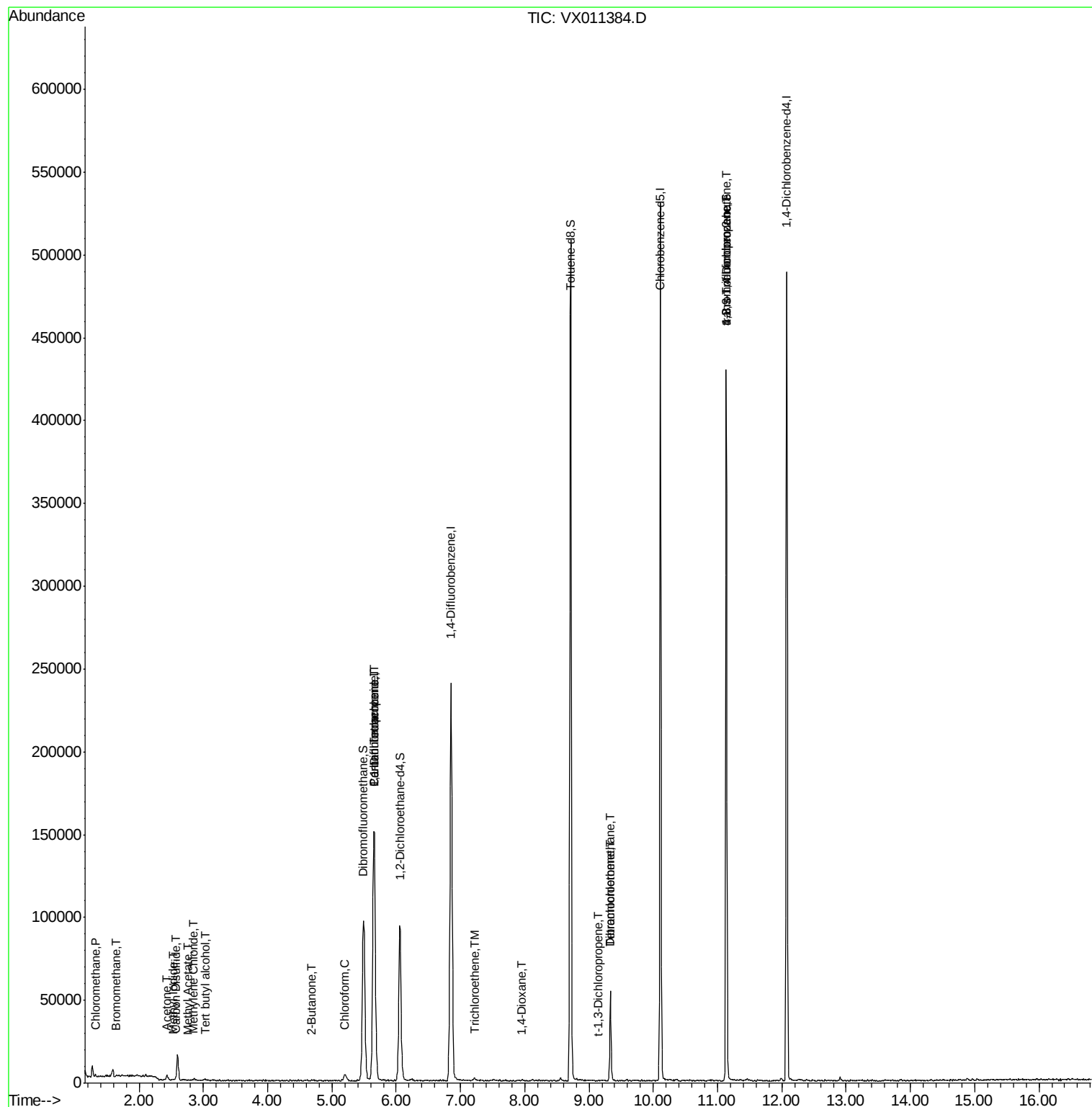
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	592	0.454	ug/l #	82
5) Bromomethane	1.65	94	427	0.417	ug/l #	78
6) Chloroethane	1.72	64	373	Below Cal	#	87
10) Methyl Iodide	2.53	142	503	0.289	ug/l #	44
11) Tert butyl alcohol	3.04	59	1123	3.740	ug/l #	85
16) Acetone	2.43	43	3409	4.728	ug/l	95
17) Carbon Disulfide	2.56	76	1218	0.379	ug/l #	91
18) Methyl Acetate	2.76	43	463	0.281	ug/l #	71
20) Methylene Chloride	2.85	84	476	0.301	ug/l #	76
25) 2-Butanone	4.68	43	358	0.349	ug/l #	46
30) Chloroform	5.20	83	1995	0.776	ug/l	84
36) 1,1-Dichloropropene	5.66	75	10484	4.875	ug/l #	48
38) Carbon Tetrachloride	5.66	117	14672	6.781	ug/l #	14
44) Trichloroethene	7.21	130	599	0.308	ug/l	88
49) 1,4-Dioxane	7.96	88	53	1.126	ug/l #	1
53) t-1,3-Dichloropropene	9.13	75	20	2.846	ug/l #	43
60) Dibromochloromethane	9.34	129	9546	5.345	ug/l #	10
64) Tetrachloroethene	9.34	164	10453	5.260	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	52635	26.735	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	52635	69.453	ug/l #	10

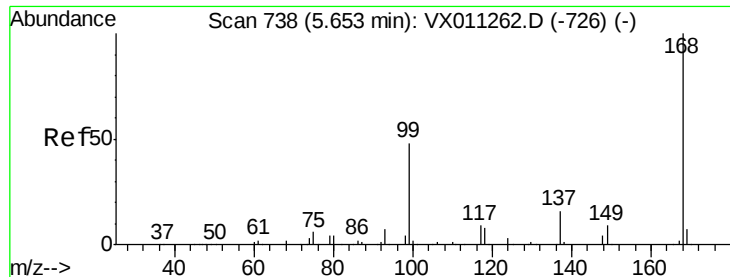
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Aug 02 01:55:00 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: VX011384.D

Acq: 08 Aug 2019 12:08

Instrument :

MSVOA_X

ClientSampleId :

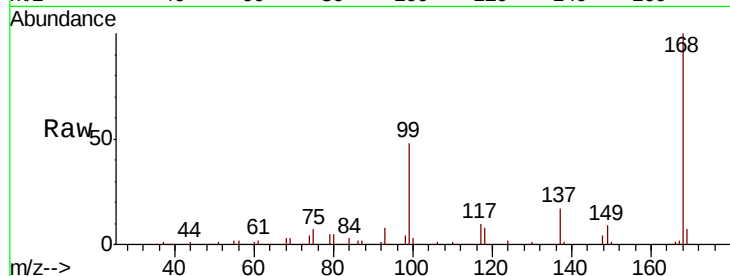
MW-25S_080619

Tgt Ion:168 Resp: 150421

Ion Ratio Lower Upper

168 100

99 48.3 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

60000

50000

40000

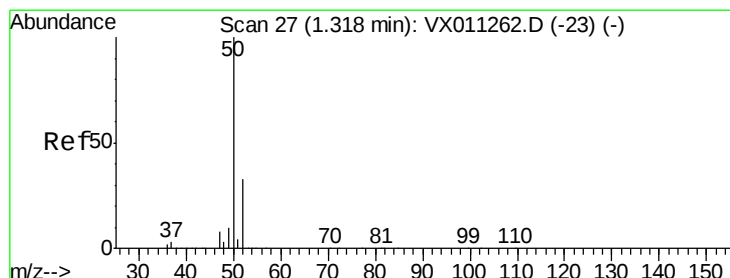
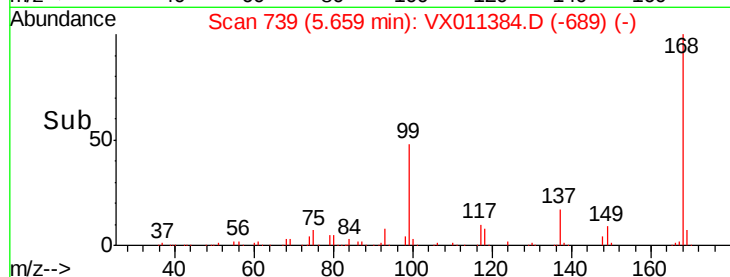
30000

20000

10000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.454 ug/l

RT: 1.32 min Scan# 27

Delta R.T. 0.00 min

Lab File: VX011384.D

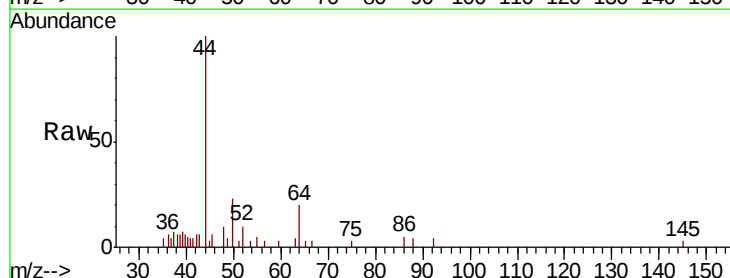
Acq: 08 Aug 2019 12:08

Tgt Ion: 50 Resp: 592

Ion Ratio Lower Upper

50 100

52 43.2 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

400

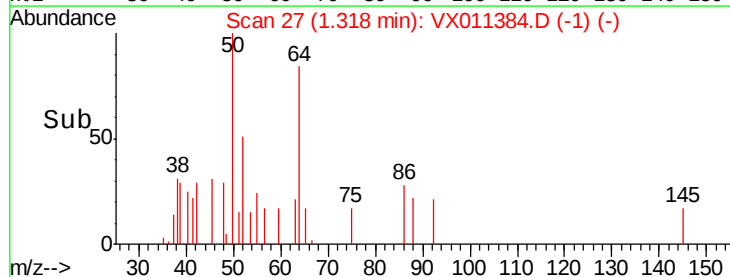
300

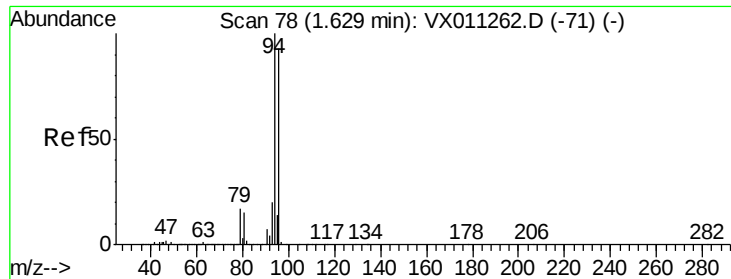
200

100

0

Time--> 1.28 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 0.417 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX011384.D

Acq: 08 Aug 2019 12:08

Instrument :

MSVOA_X

ClientSampleId :

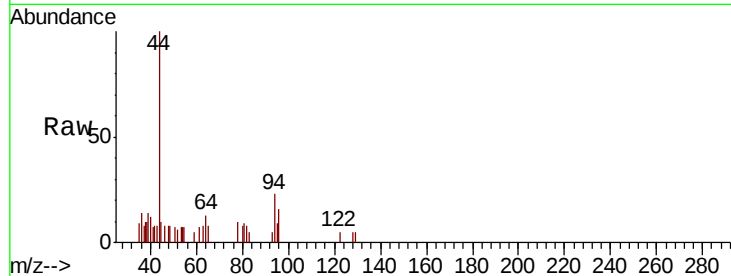
MW-25S_080619

Tgt Ion: 94 Resp: 427

Ion Ratio Lower Upper

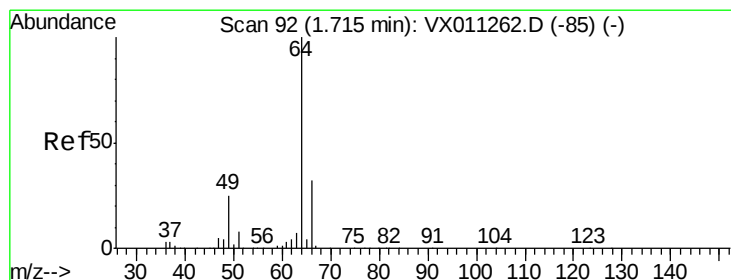
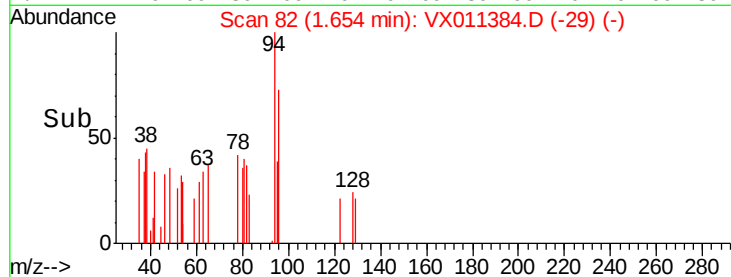
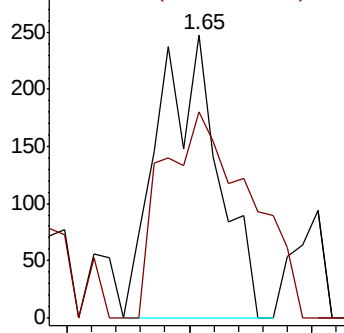
94 100

96 72.6 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Chconen: Below Cal

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX011384.D

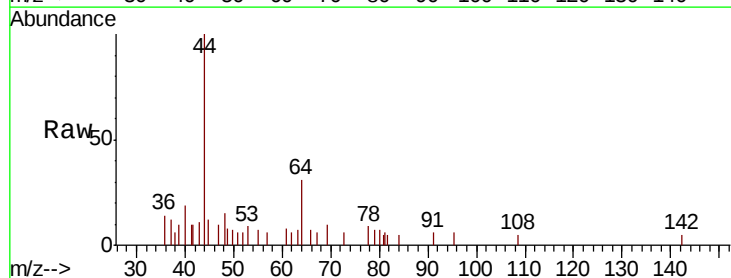
Acq: 08 Aug 2019 12:08

Tgt Ion: 64 Resp: 373

Ion Ratio Lower Upper

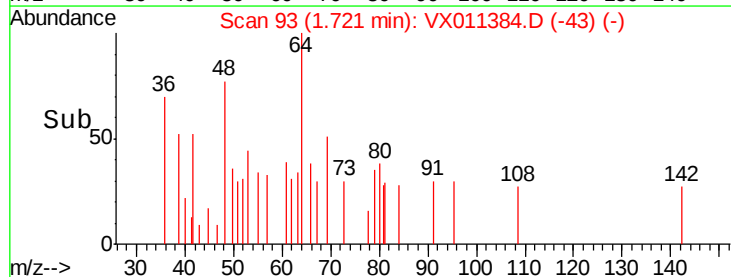
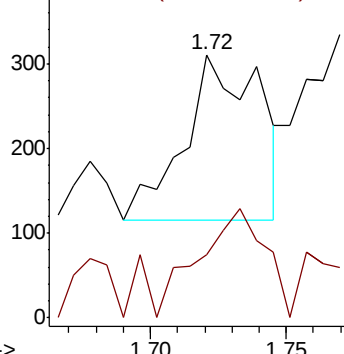
64 100

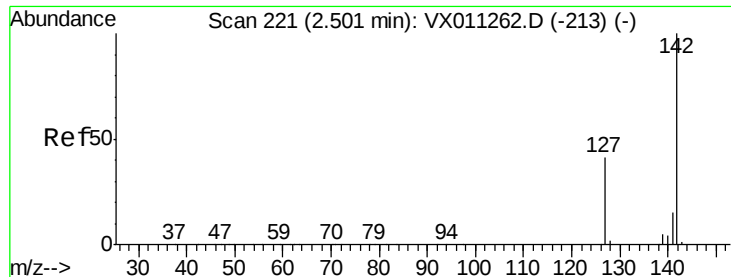
66 38.5 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

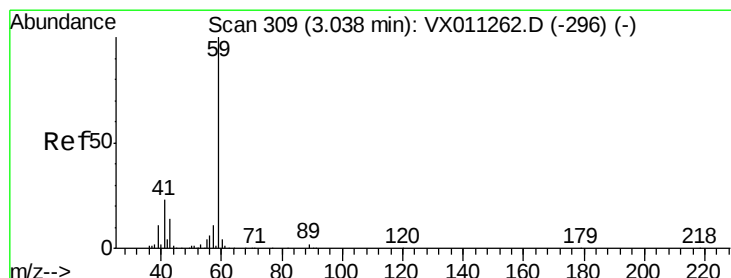
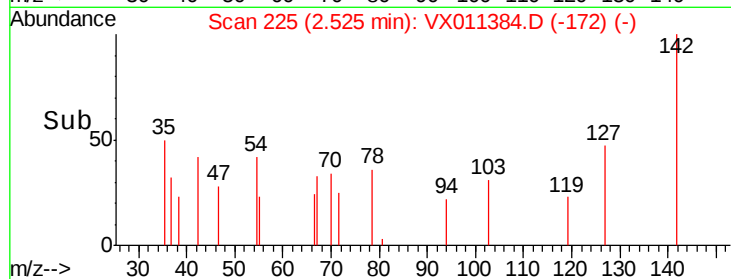
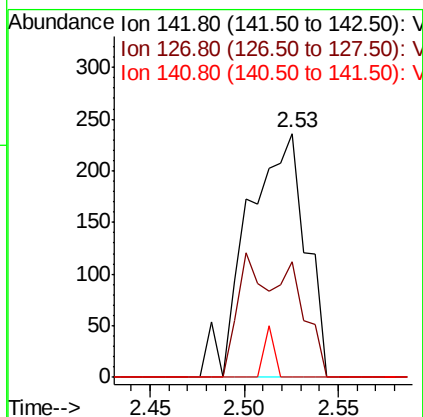
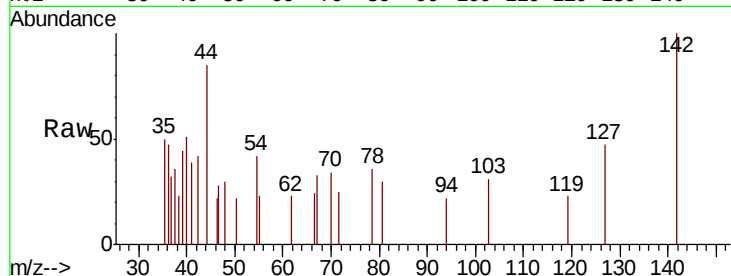




#10
Methyl Iodide
Concen: 0.289 ug/l
RT: 2.53 min Scan# 225
Delta R.T. 0.02 min
Lab File: VX011384.D
Acq: 08 Aug 2019 12:08

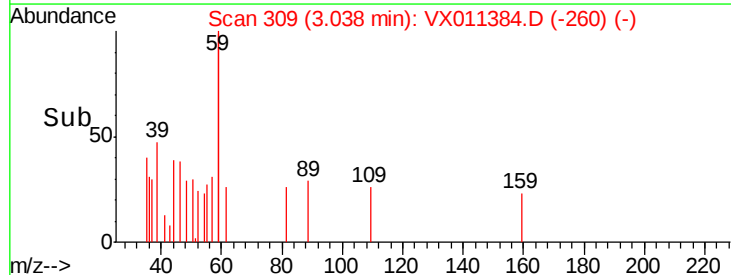
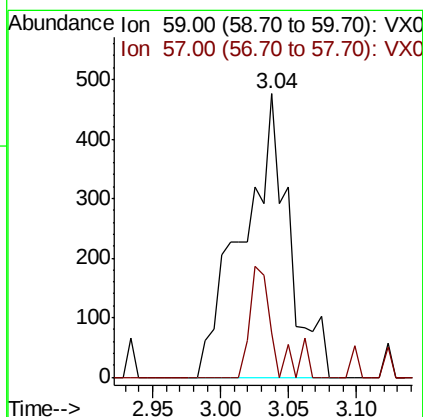
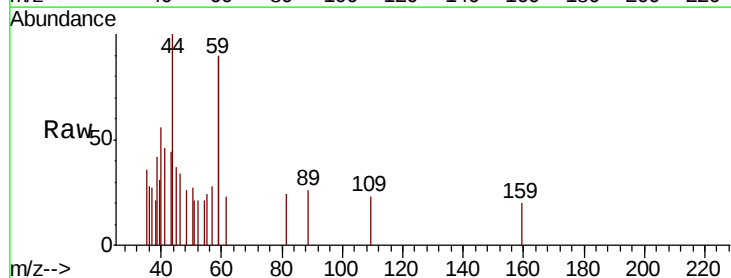
Instrument :
MSVOA_X
ClientSampleId :
MW-25S_080619

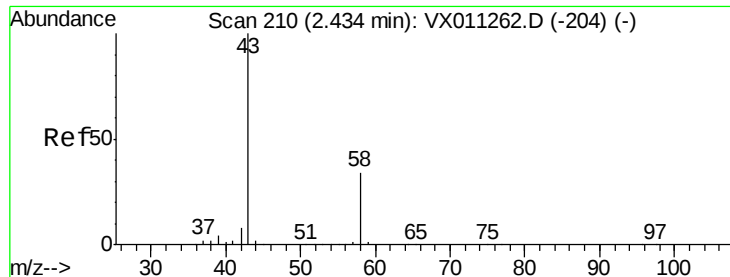
Tgt Ion:142 Resp: 503
Ion Ratio Lower Upper
142 100
127 0.0 33.8 50.8#
141 3.6 11.4 17.2#



#11
Tert butyl alcohol
Concen: 3.740 ug/l
RT: 3.04 min Scan# 309
Delta R.T. 0.00 min
Lab File: VX011384.D
Acq: 08 Aug 2019 12:08

Tgt Ion: 59 Resp: 1123
Ion Ratio Lower Upper
59 100
57 16.1 8.3 12.5#





#16

Acetone

Concen: 4.728 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011384.D

Acq: 08 Aug 2019 12:08

Instrument :

MSVOA_X

ClientSampleId :

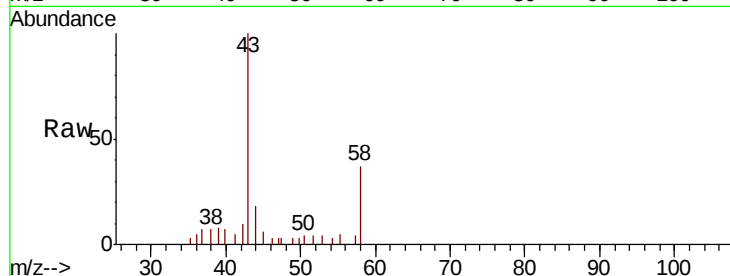
MW-25S_080619

Tgt Ion: 43 Resp: 3409

Ion Ratio Lower Upper

43 100

58 37.0 27.4 41.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2000

1500

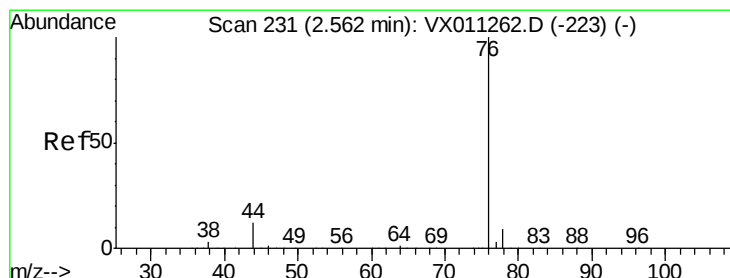
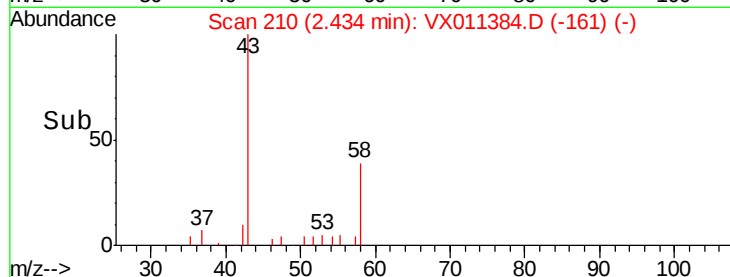
1000

500

0

2.35 2.40 2.45 2.50

Time-->



#17

Carbon Disulfide

Concen: 0.379 ug/l

RT: 2.56 min Scan# 231

Delta R.T. 0.00 min

Lab File: VX011384.D

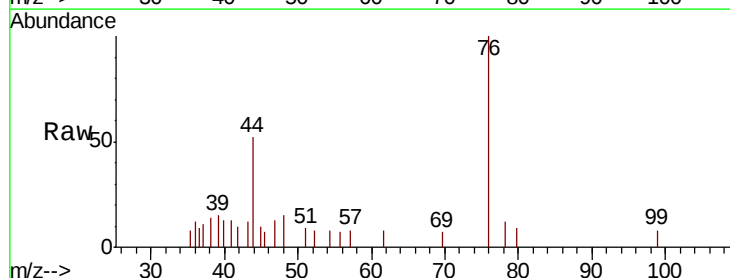
Acq: 08 Aug 2019 12:08

Tgt Ion: 76 Resp: 1218

Ion Ratio Lower Upper

76 100

78 12.4 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

800

600

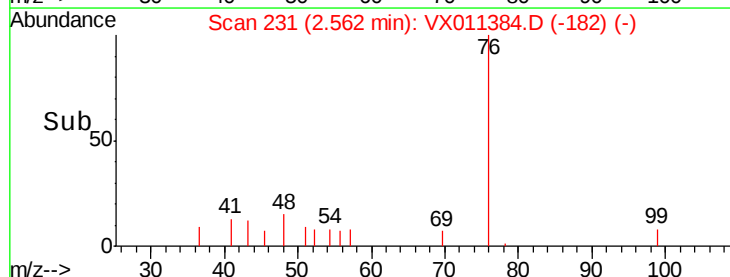
400

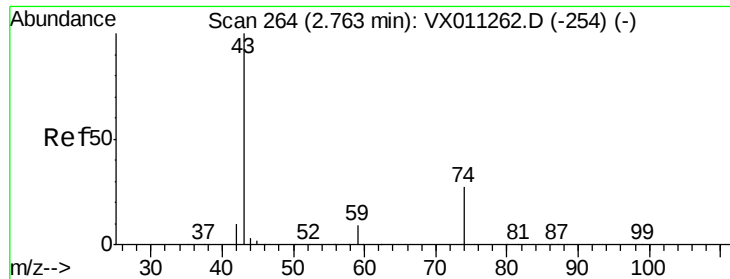
200

0

2.50 2.55 2.60

Time-->

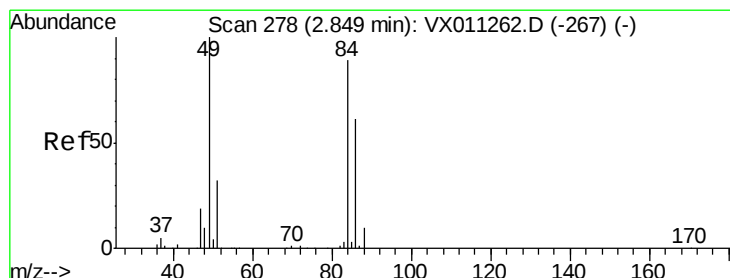
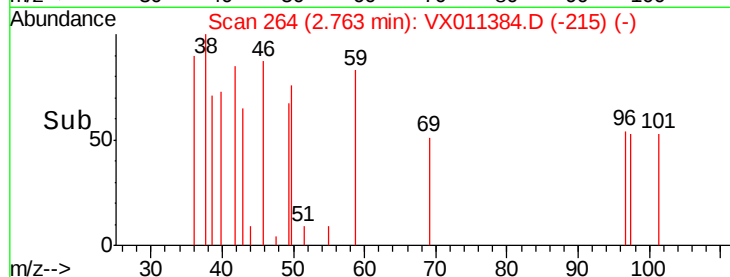
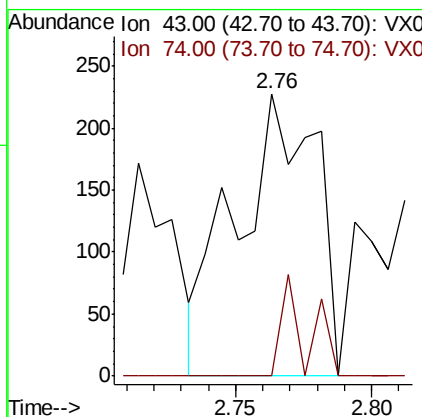
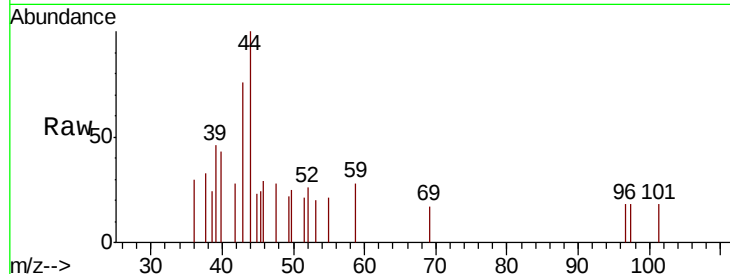




#18
Methyl Acetate
Concen: 0.281 ug/l
RT: 2.76 min Scan# 264
Delta R.T. 0.00 min
Lab File: VX011384.D
Acq: 08 Aug 2019 12:08

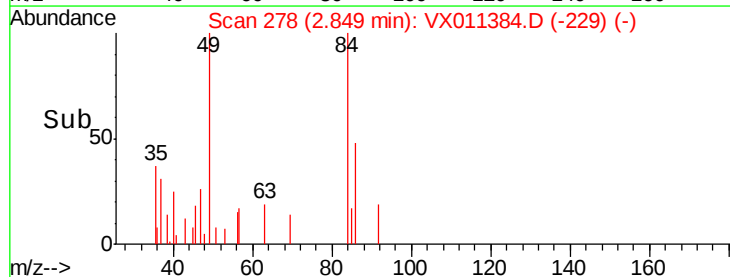
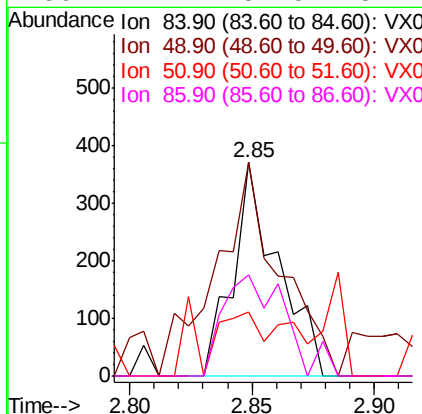
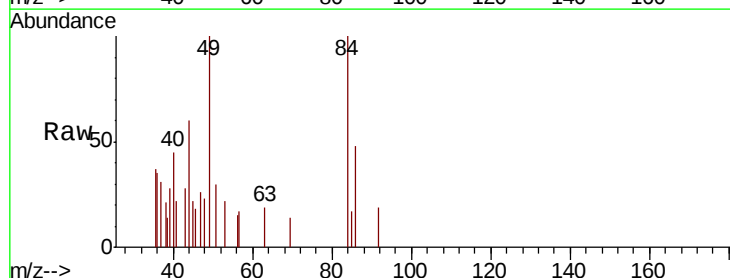
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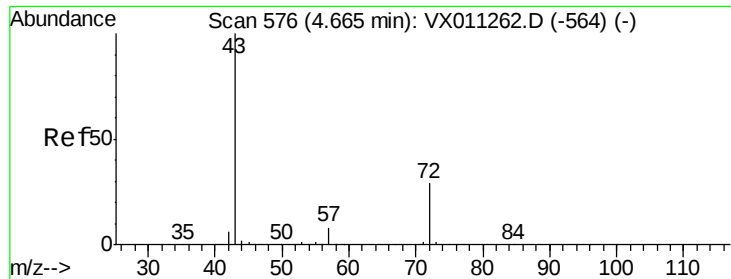
Tgt Ion: 43 Resp: 463
Ion Ratio Lower Upper
43 100
74 11.4 21.0 31.6#



#20
Methylene Chloride
Concen: 0.301 ug/l
RT: 2.85 min Scan# 278
Delta R.T. 0.00 min
Lab File: VX011384.D
Acq: 08 Aug 2019 12:08

Tgt Ion: 84 Resp: 476
Ion Ratio Lower Upper
84 100
49 100.0 89.3 133.9
51 0.0 28.3 42.5#
86 47.7 54.5 81.7#





#25

2-Butanone

Concen: 0.349 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.01 min

Lab File: VX011384.D

Acq: 08 Aug 2019 12:08

Instrument :

MSVOA_X

ClientSampleId :

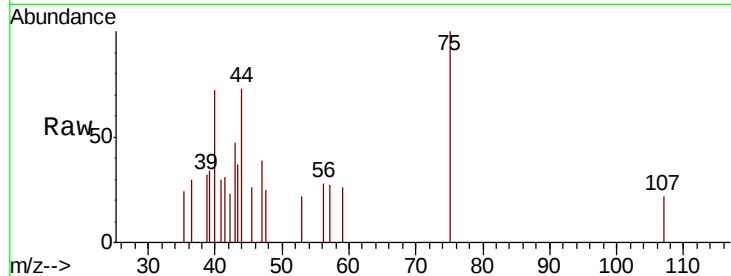
MW-25S_080619

Tgt Ion: 43 Resp: 358

Ion Ratio Lower Upper

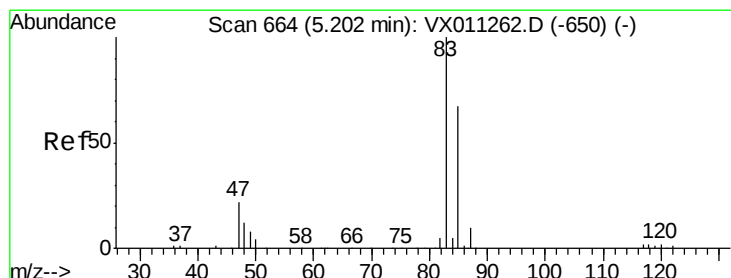
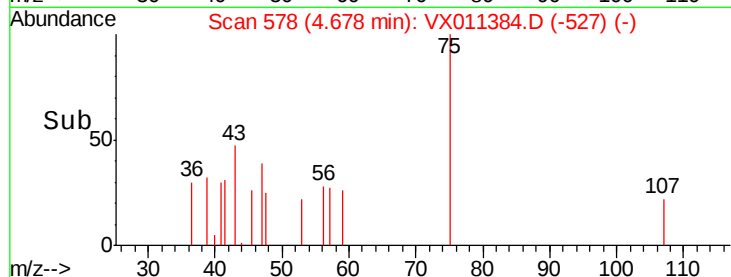
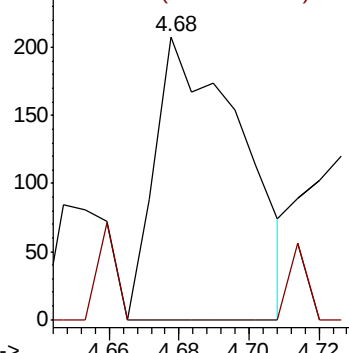
43 100

72 0.0 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#30

Chloroform

Concen: 0.776 ug/l

RT: 5.20 min Scan# 663

Delta R.T. -0.01 min

Lab File: VX011384.D

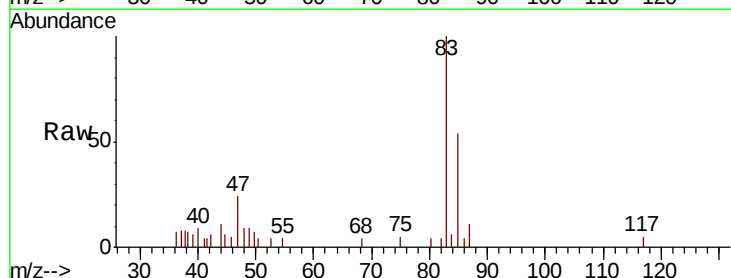
Acq: 08 Aug 2019 12:08

Tgt Ion: 83 Resp: 1995

Ion Ratio Lower Upper

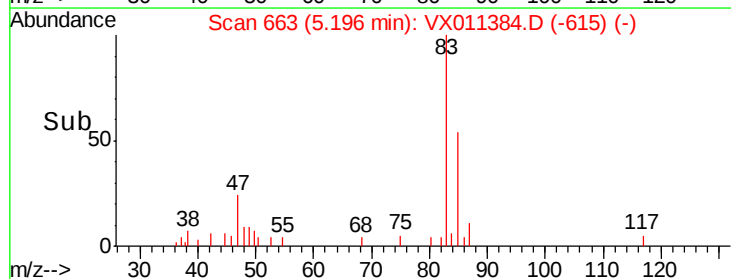
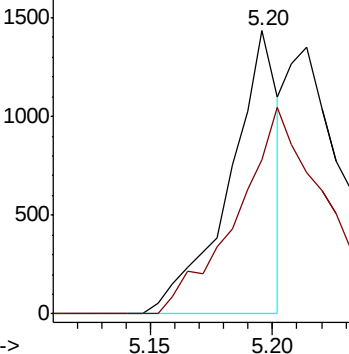
83 100

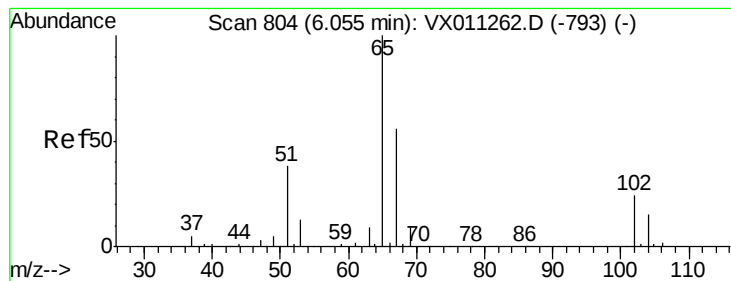
85 54.3 53.4 80.0



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 58.587 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011384.D

Acq: 08 Aug 2019 12:08

Instrument :

MSVOA_X

ClientSampleId :

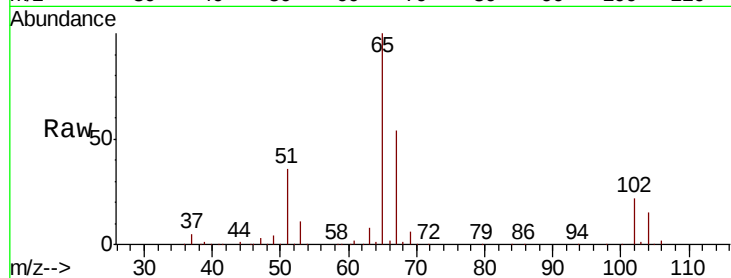
MW-25S_080619

Tgt Ion: 65 Resp: 88749

Ion Ratio Lower Upper

65 100

67 52.4 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

30000

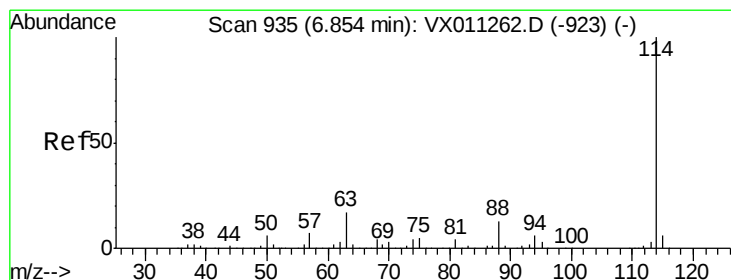
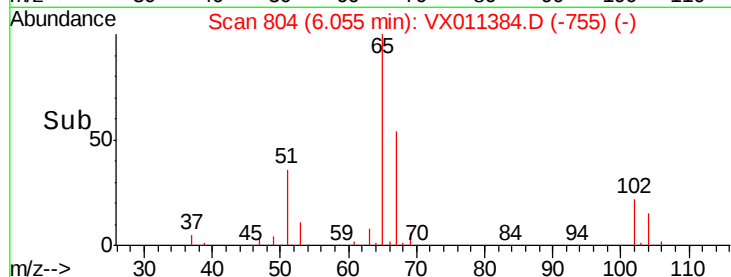
20000

10000

0

Time-->

6.00 6.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. 0.00 min

Lab File: VX011384.D

Acq: 08 Aug 2019 12:08

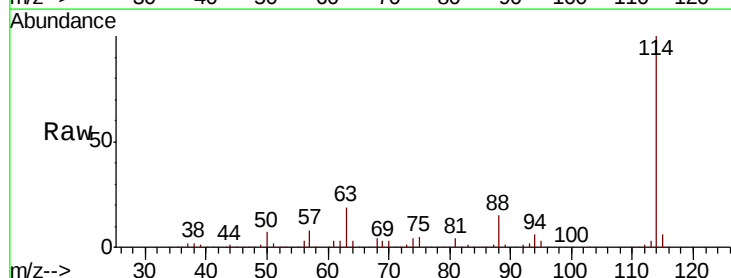
Tgt Ion: 114 Resp: 246311

Ion Ratio Lower Upper

114 100

63 18.6 0.0 34.0

88 15.3 0.0 26.4



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

6.85

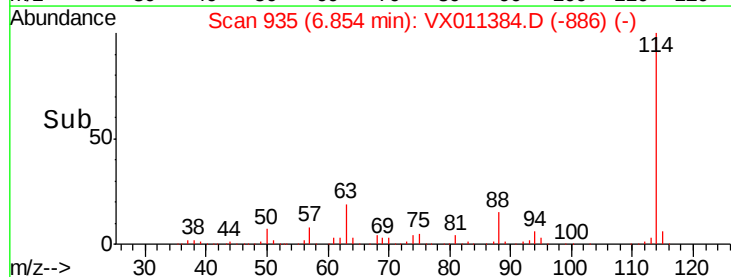
100000

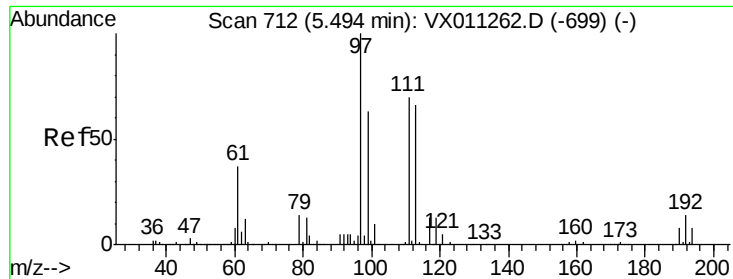
50000

0

Time-->

6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 50.729 ug/l

RT: 5.49 min Scan# 711

Delta R.T. -0.01 min

Lab File: VX011384.D

Acq: 08 Aug 2019 12:08

Instrument :

MSVOA_X

ClientSampleId :

MW-25S_080619

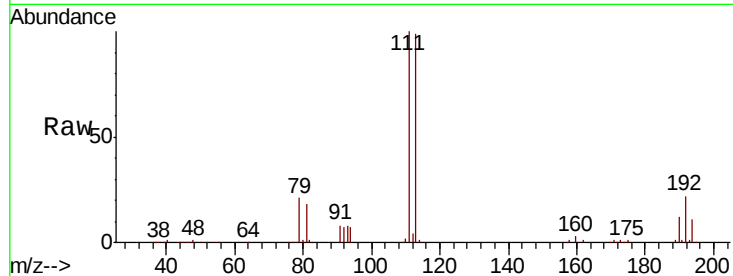
Tgt Ion:113 Resp: 81578

Ion Ratio Lower Upper

113 100

111 101.5 81.9 122.9

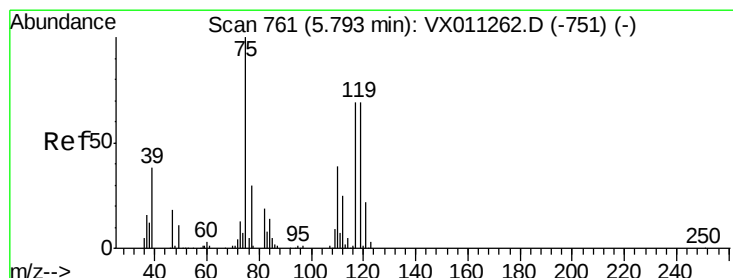
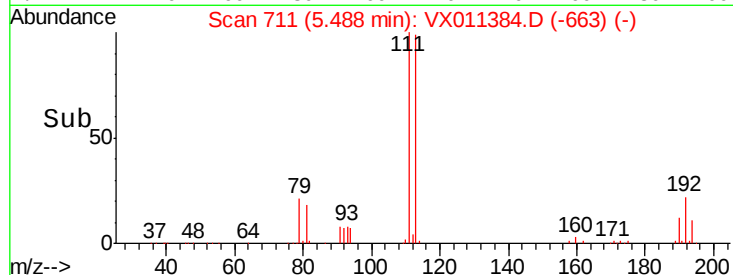
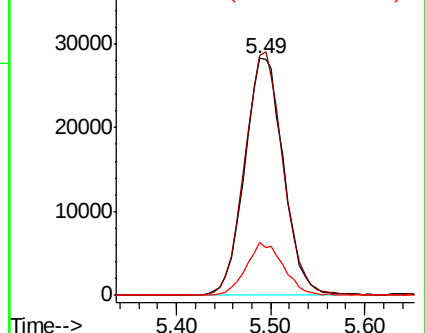
192 21.3 17.8 26.8



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: 4.875 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX011384.D

Acq: 08 Aug 2019 12:08

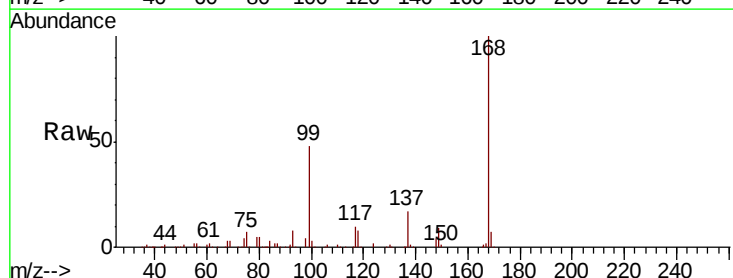
Tgt Ion: 75 Resp: 10484

Ion Ratio Lower Upper

75 100

110 10.1 20.0 59.9#

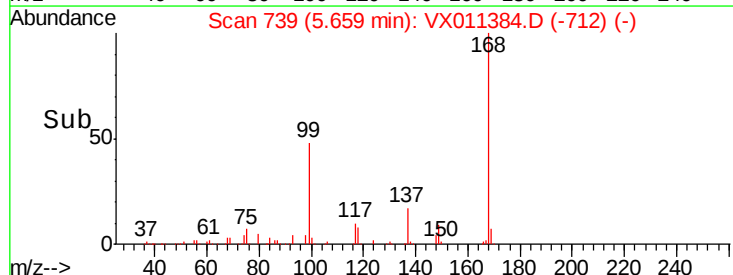
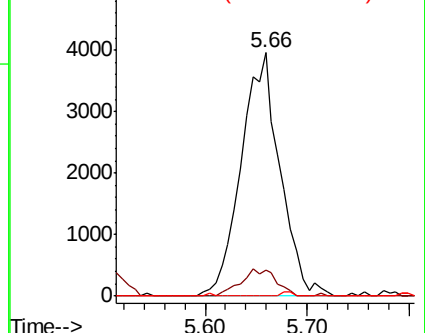
77 0.0 24.8 37.2#

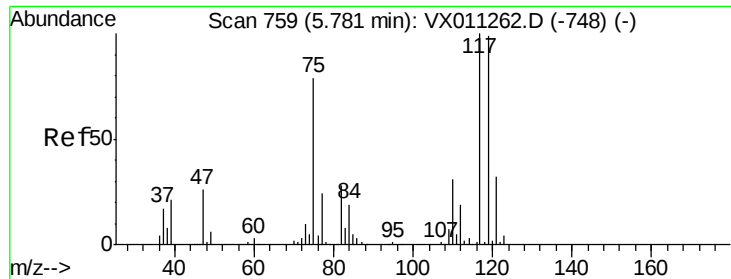


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.781 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX011384.D

Acq: 08 Aug 2019 12:08

Instrument :

MSVOA_X

ClientSampleId :

MW-25S_080619

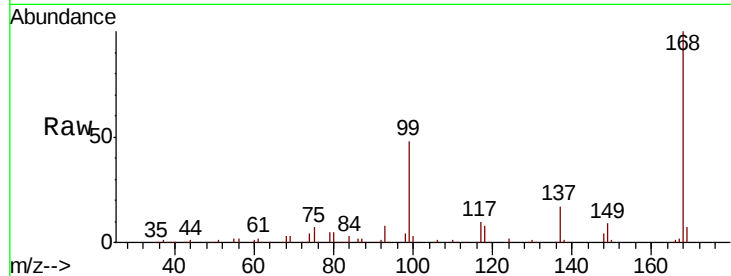
Tgt Ion:117 Resp: 14672

Ion Ratio Lower Upper

117 100

119 4.8 79.0 118.4#

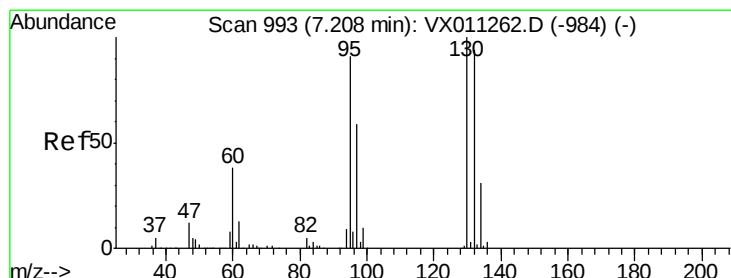
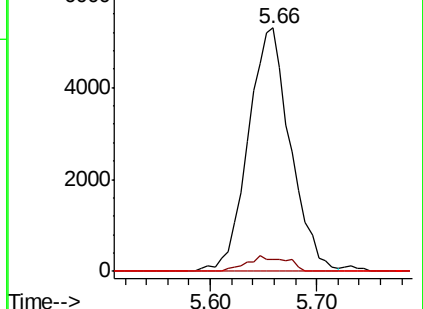
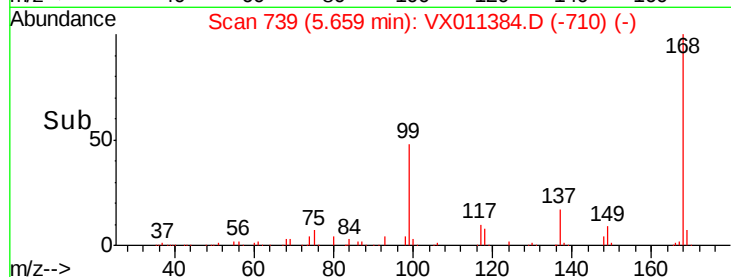
121 0.0 25.9 38.9#



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: 0.308 ug/l

RT: 7.21 min Scan# 993

Delta R.T. 0.00 min

Lab File: VX011384.D

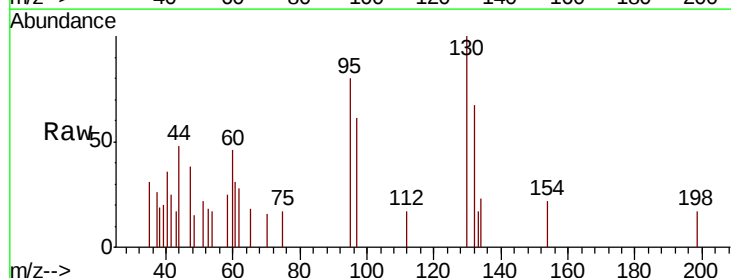
Acq: 08 Aug 2019 12:08

Tgt Ion:130 Resp: 599

Ion Ratio Lower Upper

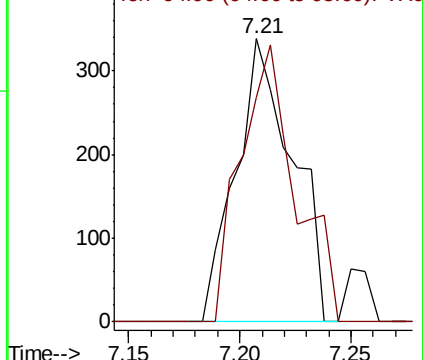
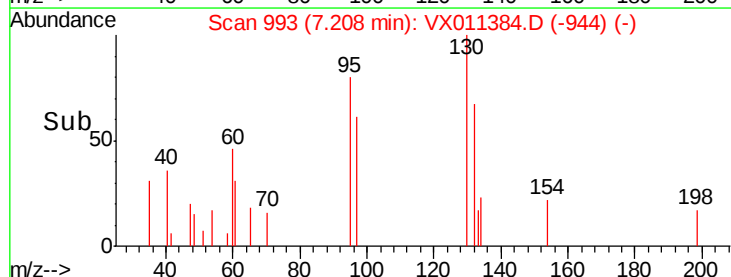
130 100

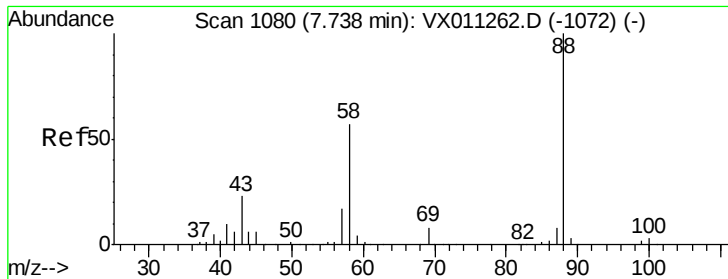
95 79.6 0.0 182.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 1.126 ug/l

RT: 7.96 min Scan# 1116

Delta R.T. 0.22 min

Lab File: VX011384.D

Acq: 08 Aug 2019 12:08

Instrument :

MSVOA_X

ClientSampleId :

MW-25S_080619

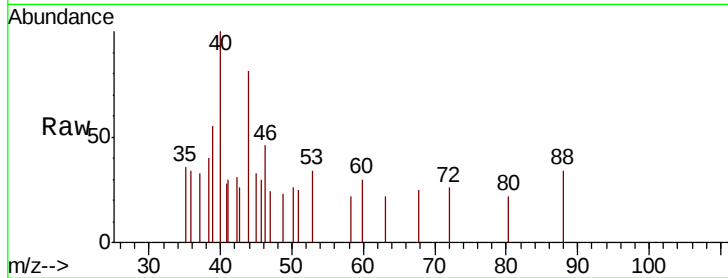
Tgt Ion: 88 Resp: 53

Ion Ratio Lower Upper

88 100

43 275.5 22.2 33.2#

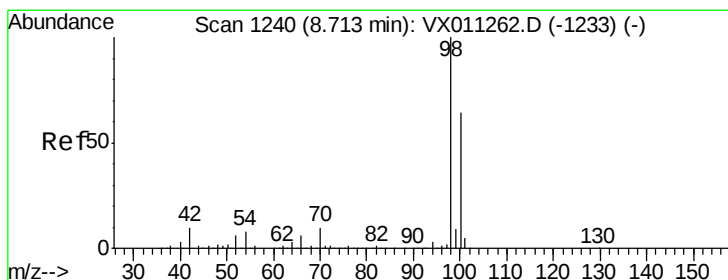
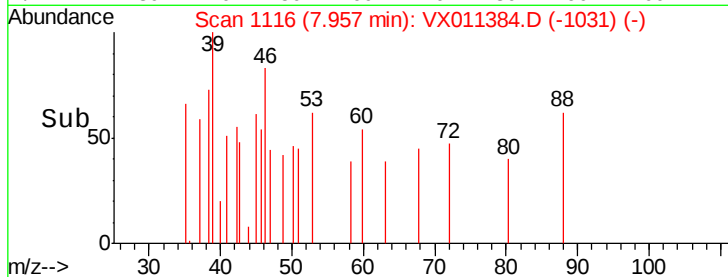
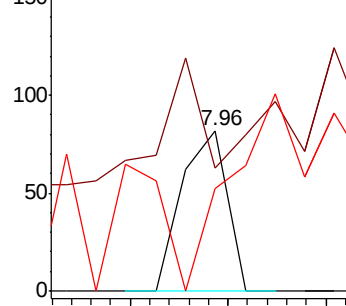
58 83.0 47.8 71.8#



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: 49.445 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011384.D

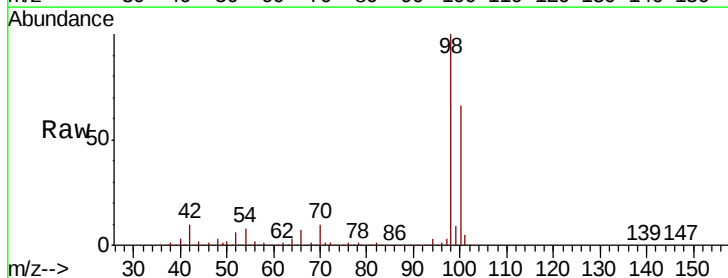
Acq: 08 Aug 2019 12:08

Tgt Ion: 98 Resp: 300136

Ion Ratio Lower Upper

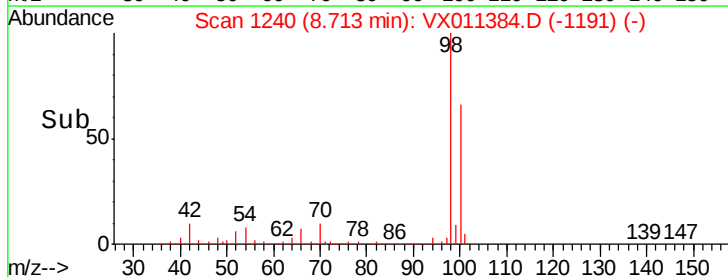
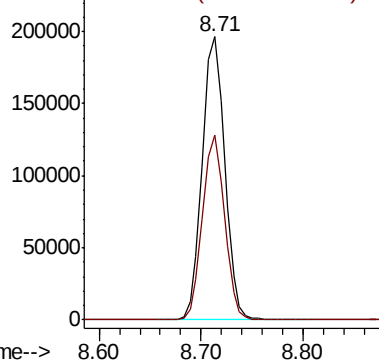
98 100

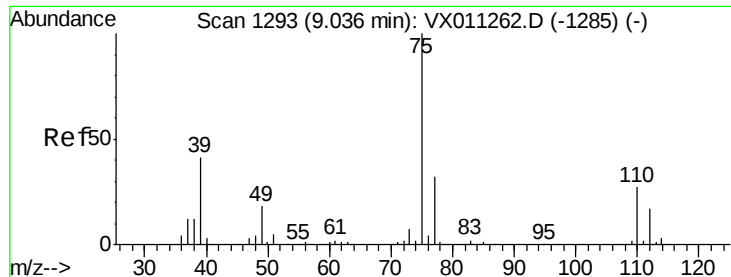
100 64.1 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#53

t-1,3-Dichloropropene

Concen: 2.846 ug/l

RT: 9.13 min Scan# 1309

Delta R.T. 0.10 min

Lab File: VX011384.D

Acq: 08 Aug 2019 12:08

Instrument :

MSVOA_X

ClientSampleId :

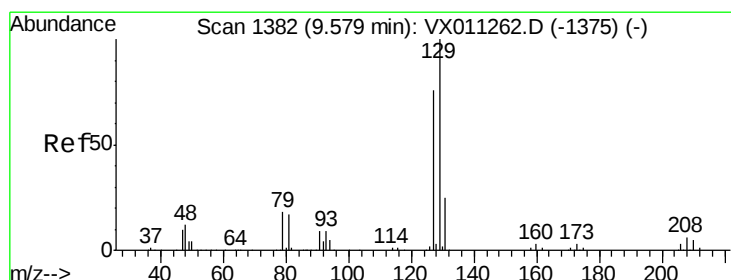
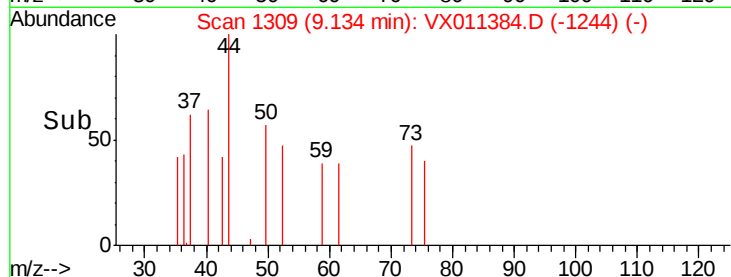
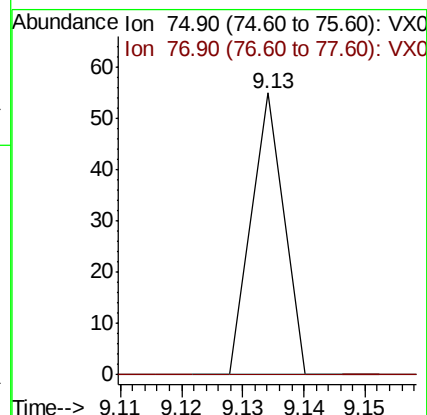
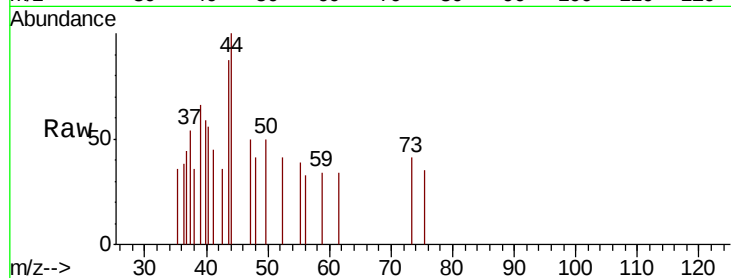
MW-25S_080619

Tgt Ion: 75 Resp: 20

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#



#60

Dibromochloromethane

Concen: 5.345 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX011384.D

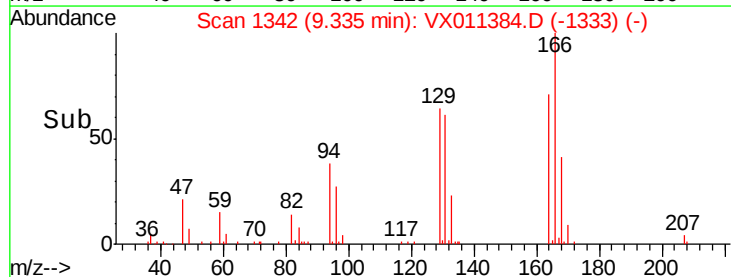
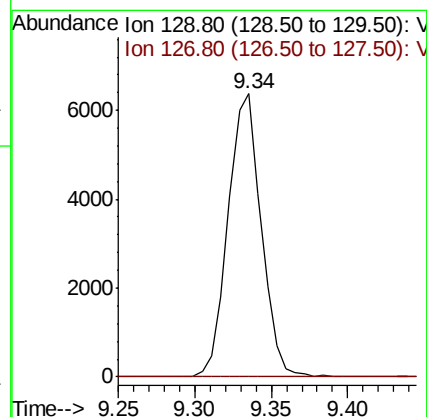
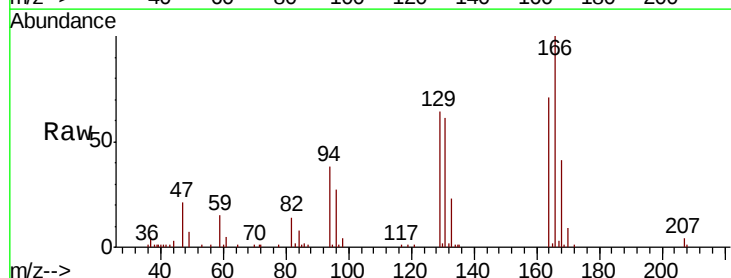
Acq: 08 Aug 2019 12:08

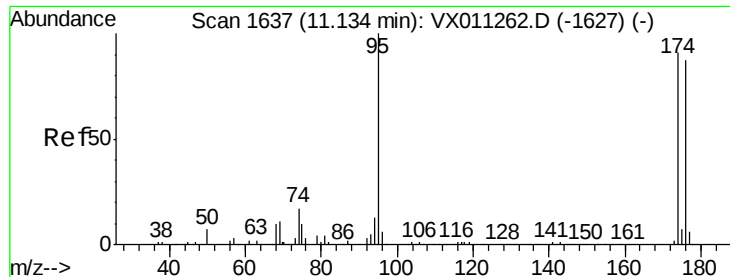
Tgt Ion: 129 Resp: 9546

Ion Ratio Lower Upper

129 100

127 0.0 39.2 117.6#

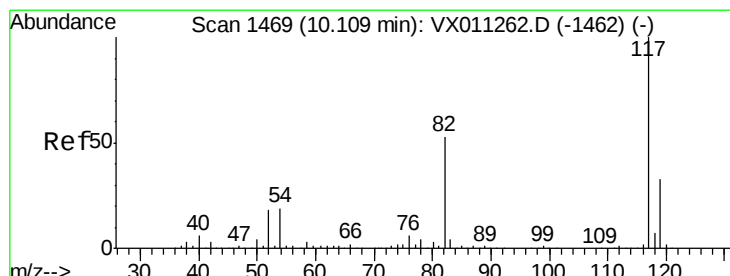
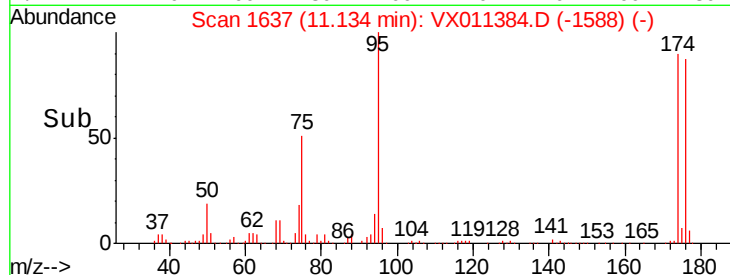
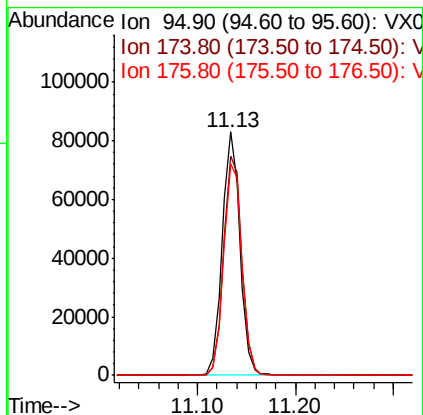
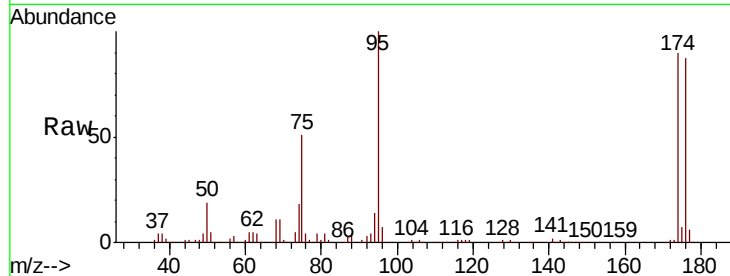




#62
4-Bromofluorobenzene
Concen: 47.893 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011384.D
Acq: 08 Aug 2019 12:08

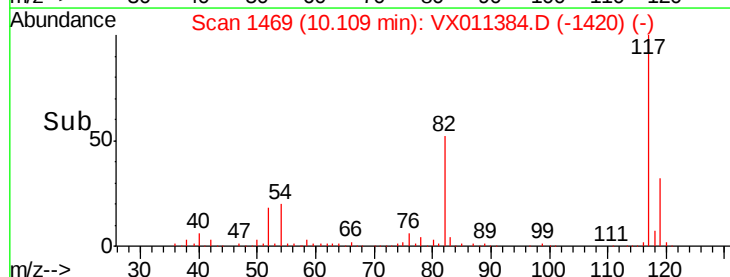
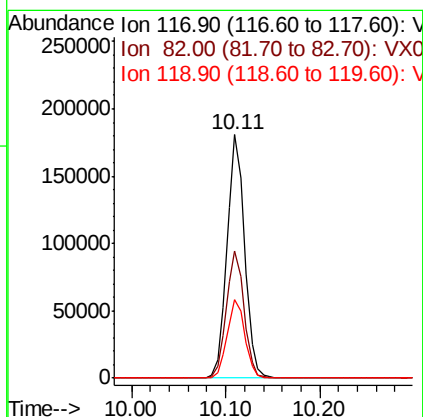
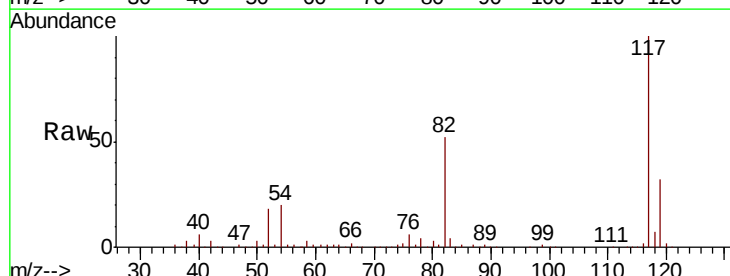
Instrument :
MSVOA_X
ClientSampleId :
MW-25S_080619

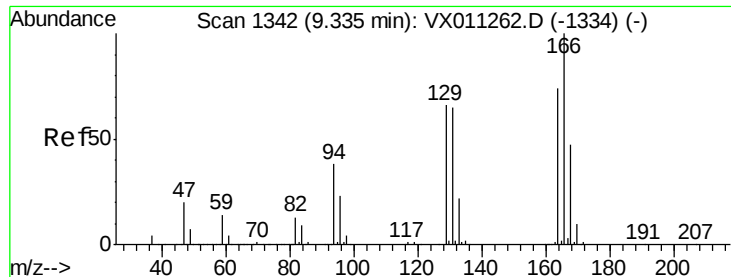
Tgt Ion: 95 Resp: 103793
Ion Ratio Lower Upper
95 100
174 93.3 0.0 191.2
176 90.1 0.0 184.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011384.D
Acq: 08 Aug 2019 12:08

Tgt Ion: 117 Resp: 234000
Ion Ratio Lower Upper
117 100
82 52.3 42.2 63.2
119 32.3 26.6 39.8





#64

Tetrachloroethene

Concen: 5.260 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX011384.D

Acq: 08 Aug 2019 12:08

Instrument :

MSVOA_X

ClientSampleId :

MW-25S_080619

Tgt Ion:164 Resp: 10453

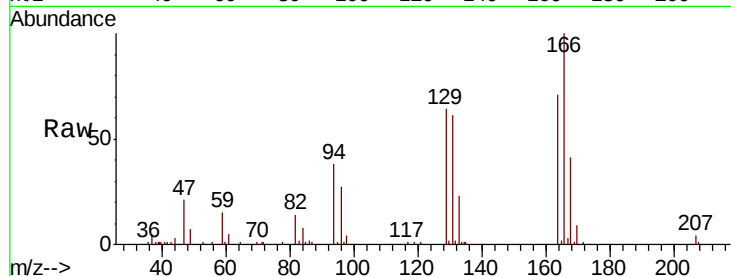
Ion Ratio Lower Upper

164 100

166 140.7 107.5 161.3

129 90.1 71.0 106.4

131 85.7 69.8 104.6

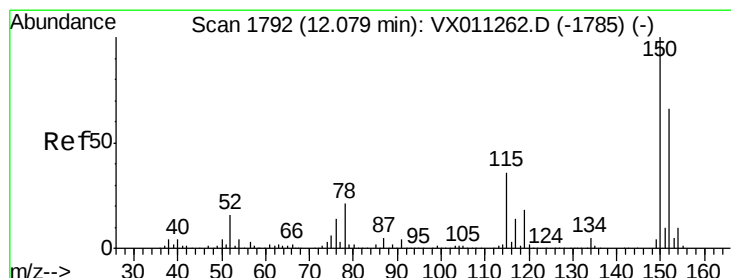
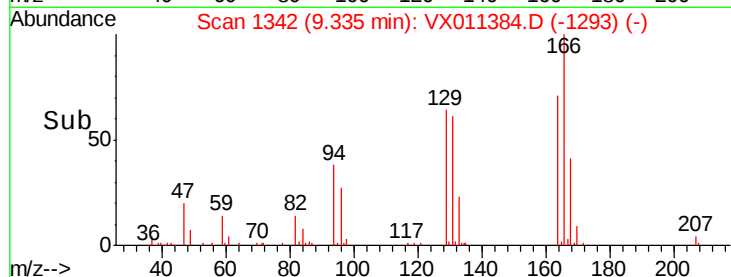
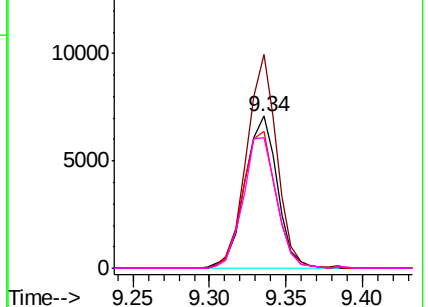


Abundance Ion 163.80 (163.50 to 164.50): V

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: VX011384.D

Acq: 08 Aug 2019 12:08

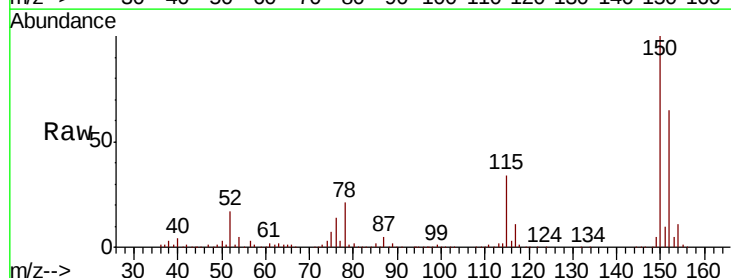
Tgt Ion:152 Resp: 108108

Ion Ratio Lower Upper

152 100

115 54.3 40.0 119.9

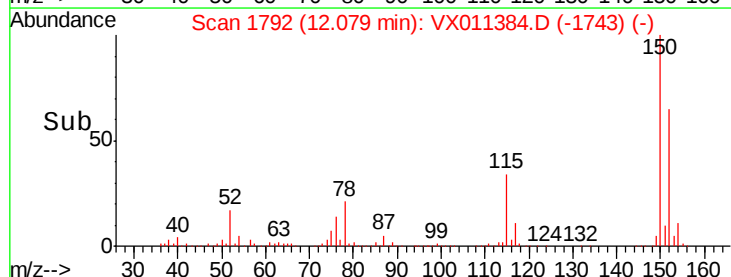
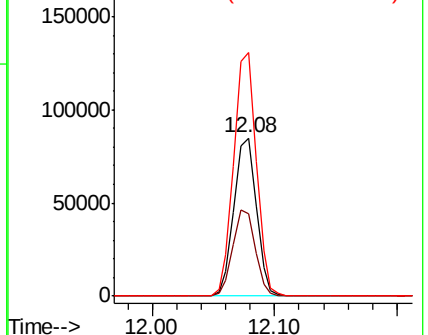
150 154.4 0.0 350.4

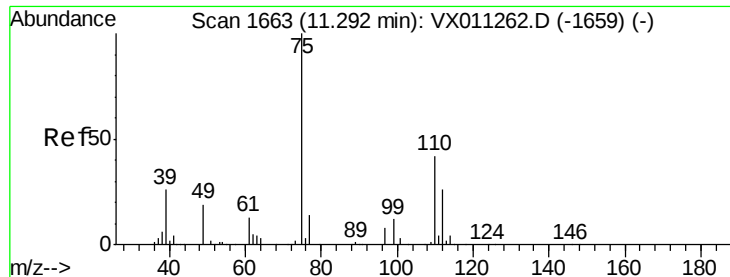


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

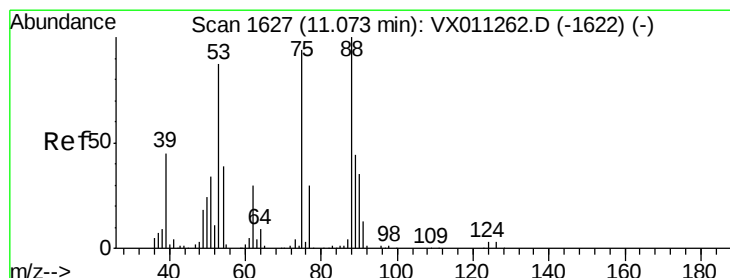
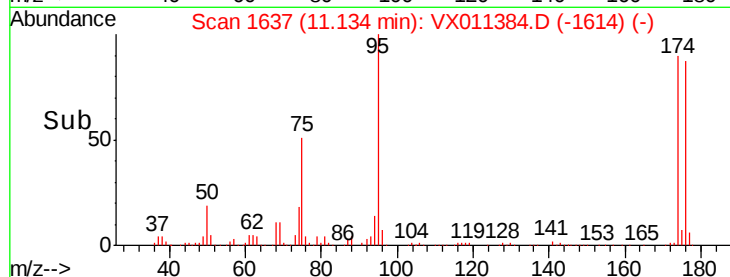
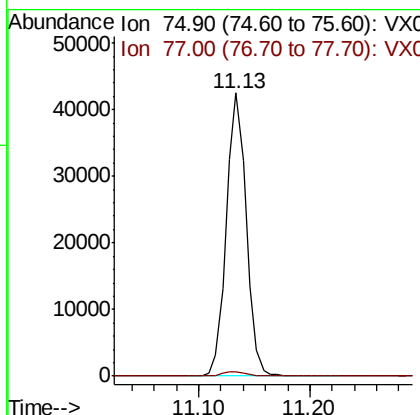
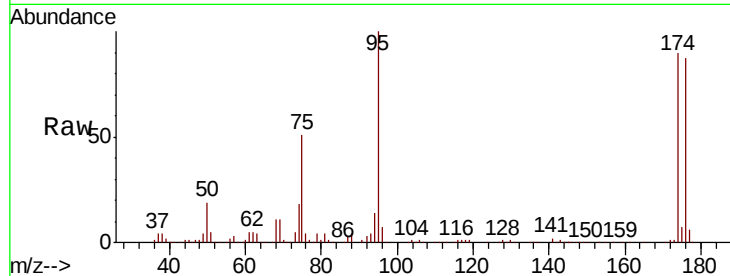




#76
 1,2,3-Trichloropropane
 Concen: 26.735 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX011384.D
 Acq: 08 Aug 2019 12:08

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-25S_080619

Tgt Ion: 75 Resp: 52635
 Ion Ratio Lower Upper
 75 100
 77 1.9 21.1 63.4#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.453 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX011384.D
 Acq: 08 Aug 2019 12:08

Tgt Ion: 75 Resp: 52635
 Ion Ratio Lower Upper
 75 100
 53 0.1 78.2 117.4#
 89 0.0 37.9 56.9#

