

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081518\
 Data File : VX004098.D
 Acq On : 16 Aug 2018 03:34
 Operator : JC/MD
 Sample : J4495-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS050MW608-180814

Quant Time: Aug 16 07:18:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 13:27:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	253473	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	401426	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	383956	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	207819	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	193243	54.11	ug/l	0.00
Spiked Amount			Recovery	=	108.22%	
35) Dibromofluoromethane	5.51	113	163993	54.59	ug/l	0.00
Spiked Amount			Recovery	=	109.18%	
50) Toluene-d8	8.72	98	579157	47.55	ug/l	0.00
Spiked Amount			Recovery	=	95.10%	
62) 4-Bromofluorobenzene	11.14	95	195947	44.35	ug/l	0.00
Spiked Amount			Recovery	=	88.70%	

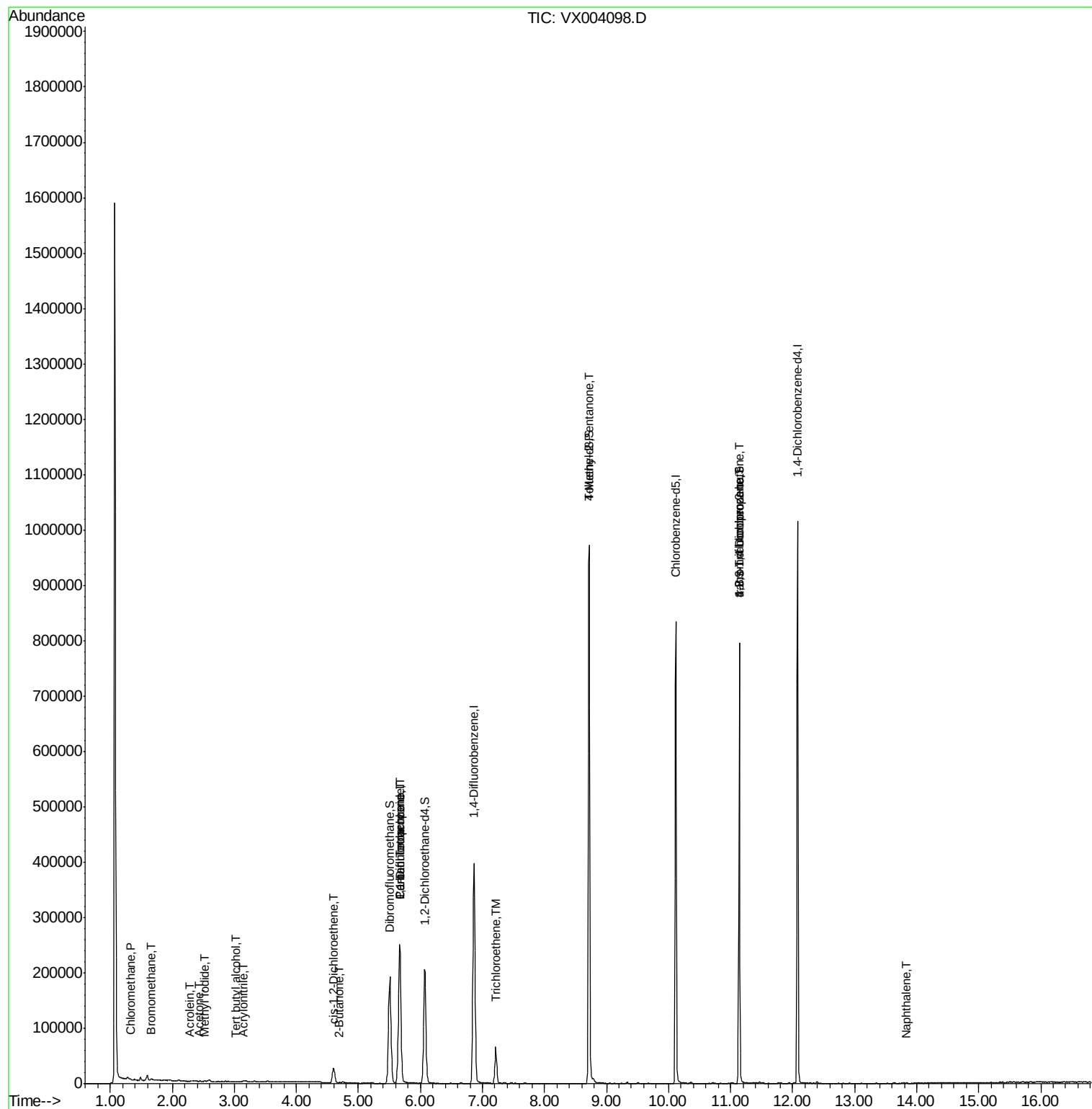
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	740	0.24	ug/l	94
5) Bromomethane	1.65	94	1062	0.46	ug/l	92
6) Chloroethane	1.63	64	263	Below Cal	#	53
10) Methyl Iodide	2.51	142	852	5.26	ug/l	# 97
11) Tert butyl alcohol	3.03	59	274	0.38	ug/l	# 93
13) Acrolein	2.28	56	41	11.03	ug/l	# 1
15) Acrylonitrile	3.14	53	412	0.23	ug/l	87
16) Acetone	2.43	43	1090	0.59	ug/l	# 68
20) Methylene Chloride	2.86	84	184	Below Cal	#	84
25) 2-Butanone	4.69	43	2494	0.83	ug/l	# 84
27) cis-1,2-Dichloroethene	4.60	96	17472	5.13	ug/l	94
36) 1,1-Dichloropropene	5.66	75	17706	3.88	ug/l	# 50
38) Carbon Tetrachloride	5.66	117	22985	5.18	ug/l	# 15
44) Trichloroethene	7.22	130	25720	6.91	ug/l	81
51) 4-Methyl-2-Pentanone	8.71	43	2355	0.39	ug/l	# 1
76) 1,2,3-Trichloropropane	11.14	75	94744	22.73	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	11.14	75	94744	70.37	ug/l	# 10
95) Naphthalene	13.83	128	541	1.18	ug/l	# 85

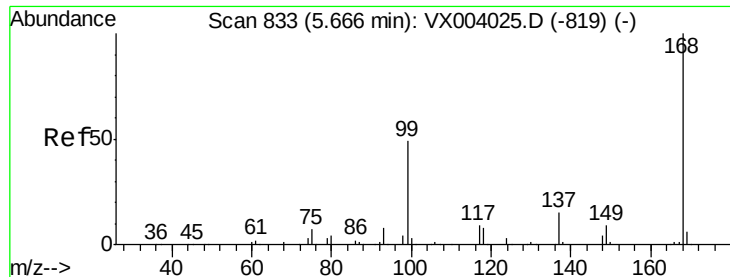
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX004098.D

Acq: 16 Aug 2018 03:34

Instrument :

MSVOA_X

ClientSampleId :

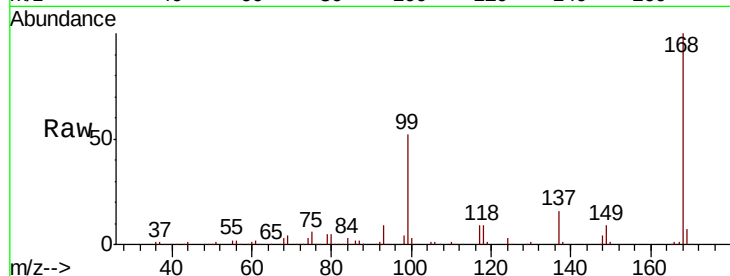
SS050MW608-180814

Tot Ion:168 Resp: 253473

Ion Ratio Lower Upper

168 100

99 51.5 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

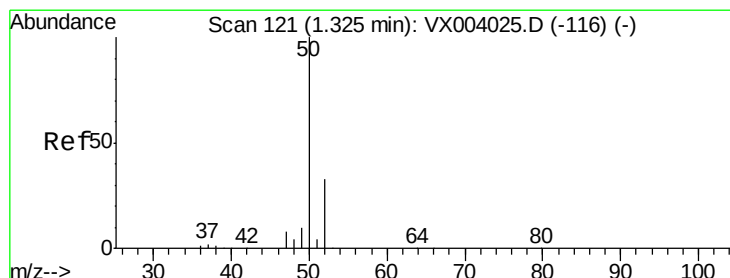
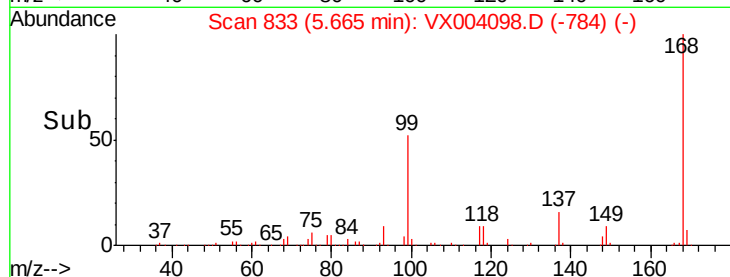
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.24 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX004098.D

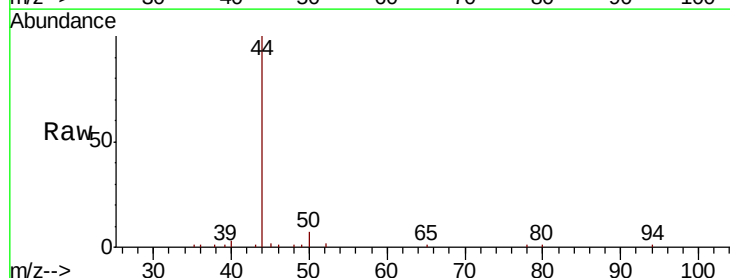
Acq: 16 Aug 2018 03:34

Tgt Ion: 50 Resp: 740

Ion Ratio Lower Upper

50 100

52 36.4 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

300

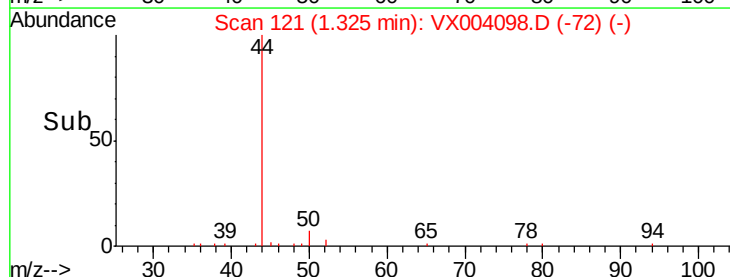
200

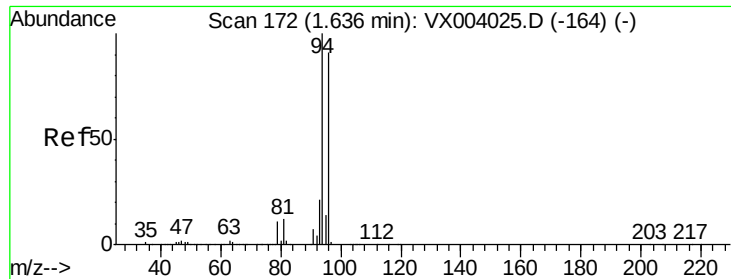
100

0

Time-->

1.30 1.35 1.40





#5

Bromomethane

Concen: 0.46 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX004098.D

Acq: 16 Aug 2018 03:34

Instrument :

MSVOA_X

ClientSampleId :

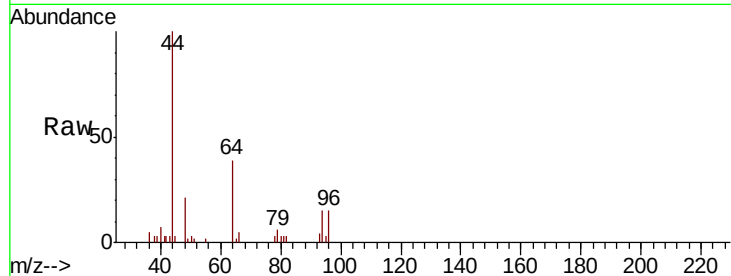
SS050MW608-180814

Tot Ion: 94 Resp: 1062

Ion Ratio Lower Upper

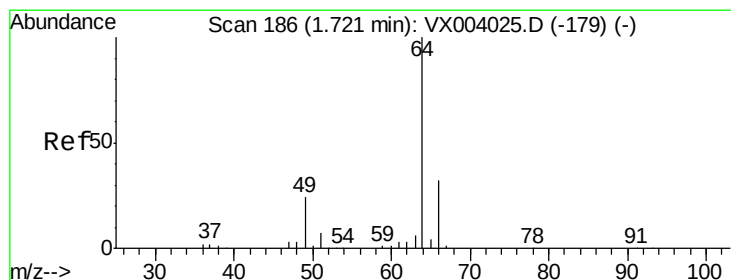
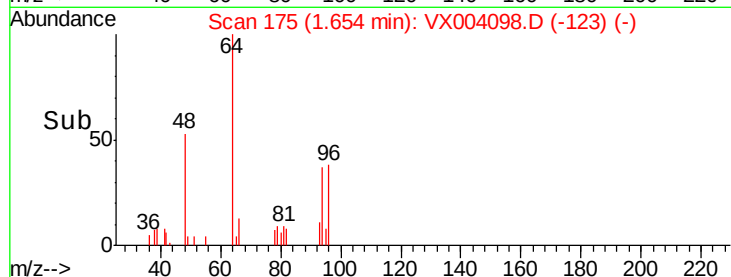
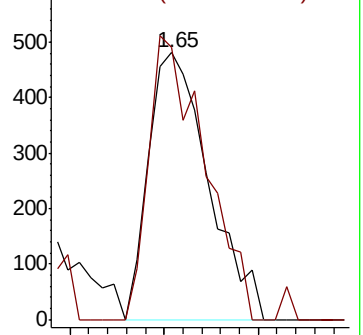
94 100

96 102.1 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.63 min Scan# 171

Delta R.T. -0.09 min

Lab File: VX004098.D

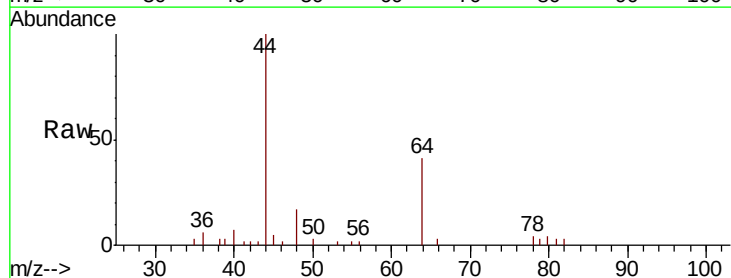
Acq: 16 Aug 2018 03:34

Tgt Ion: 64 Resp: 263

Ion Ratio Lower Upper

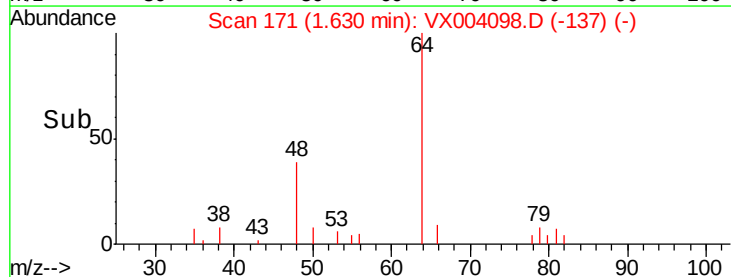
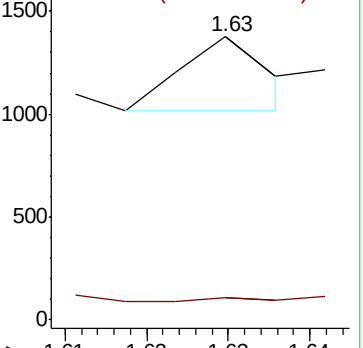
64 100

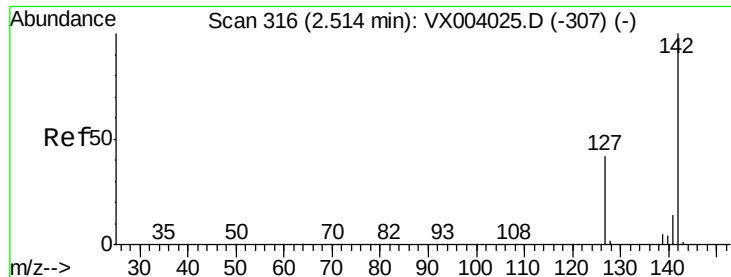
66 6.7 26.5 39.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

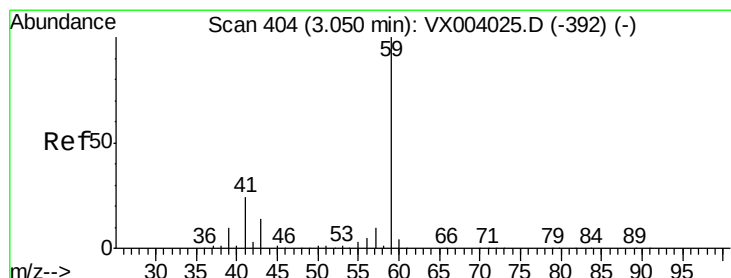
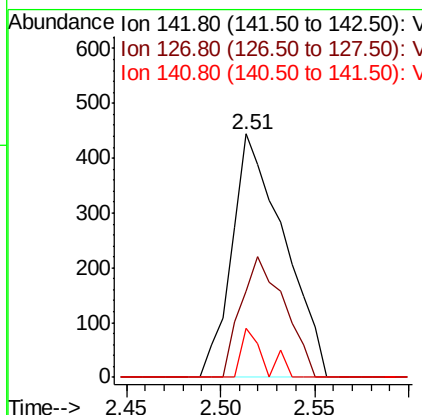
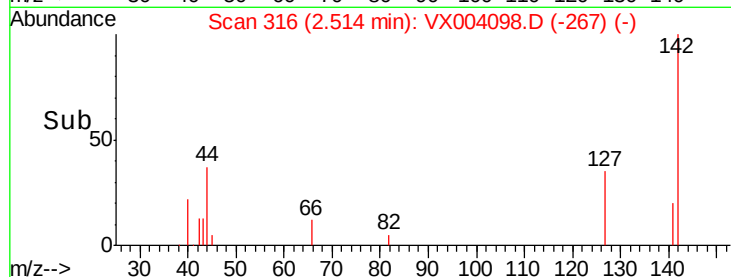
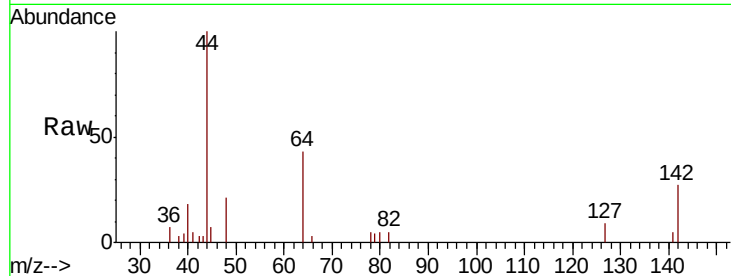




#10
Methvl Iodide
Concen: 5.26 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.00 min
Lab File: VX004098.D
Acq: 16 Aug 2018 03:34

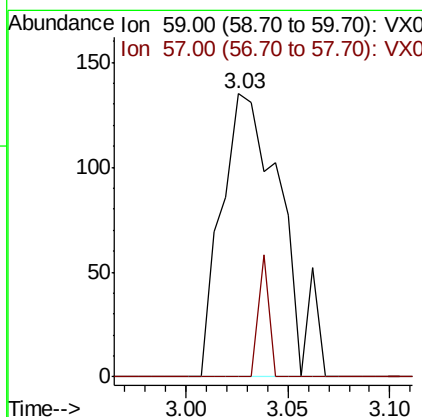
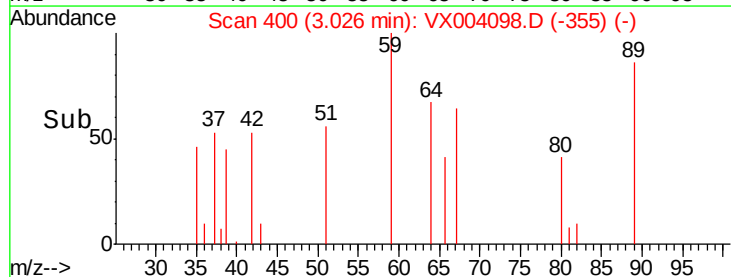
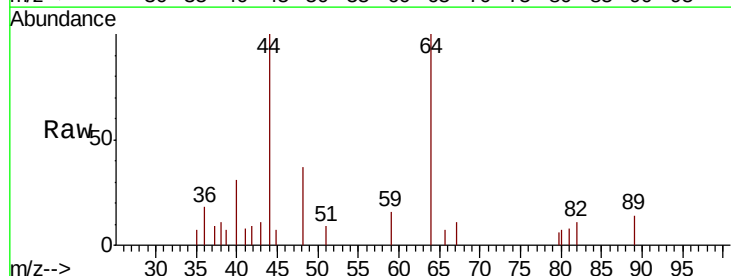
Instrument :
MSVOA_X
ClientSampleId :
SS050MW608-180814

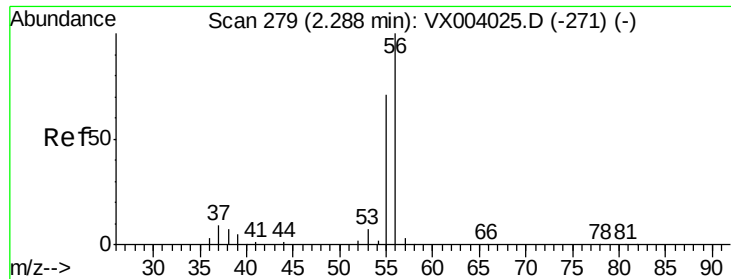
Tot Ion:142 Resp: 852
Ion Ratio Lower Upper
142 100
127 41.5 33.1 49.7
141 8.7 11.1 16.7#



#11
Tert butyl alcohol
Concen: 0.38 ug/l
RT: 3.03 min Scan# 400
Delta R.T. -0.02 min
Lab File: VX004098.D
Acq: 16 Aug 2018 03:34

Tgt Ion: 59 Resp: 274
Ion Ratio Lower Upper
59 100
57 7.7 8.1 12.1#





#13

Acrolein

Concen: 11.03 ug/l

RT: 2.28 min Scan# 278

Delta R.T. -0.01 min

Lab File: VX004098.D

Acq: 16 Aug 2018 03:34

Instrument :

MSVOA_X

ClientSampleId :

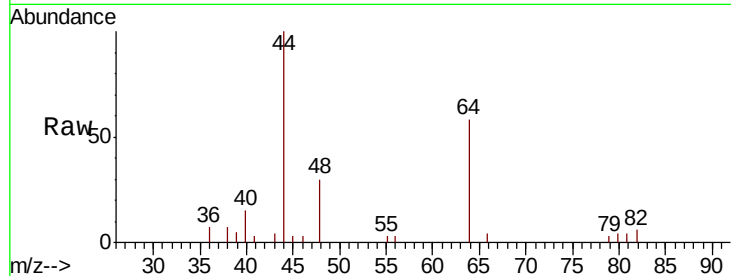
SS050MW608-180814

Tot Ion: 56 Resp: 41

Ion Ratio Lower Upper

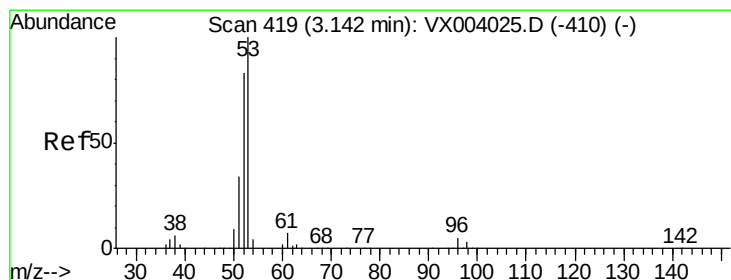
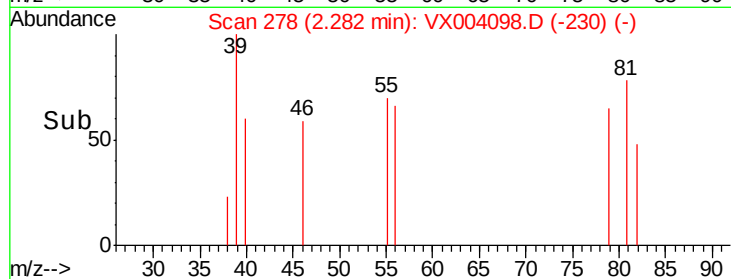
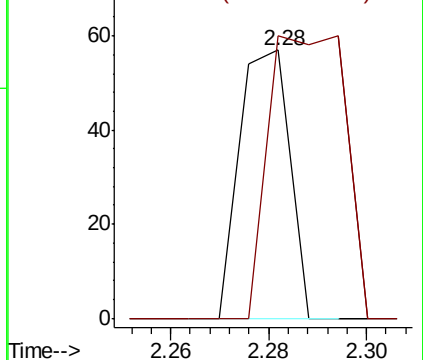
56 100

55 158.5 56.1 84.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.23 ug/l

RT: 3.14 min Scan# 419

Delta R.T. -0.00 min

Lab File: VX004098.D

Acq: 16 Aug 2018 03:34

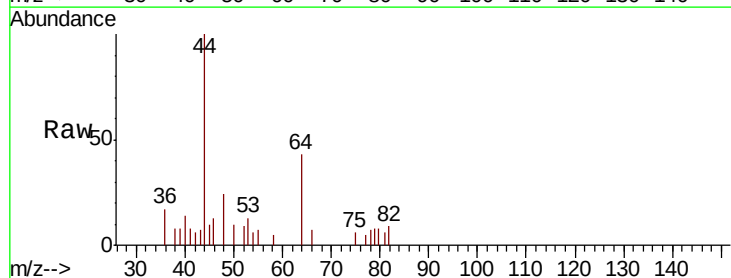
Tgt Ion: 53 Resp: 412

Ion Ratio Lower Upper

53 100

52 66.0 65.3 97.9

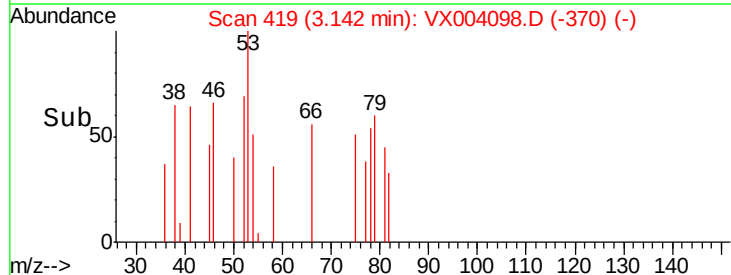
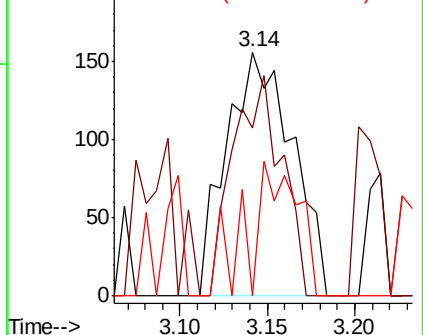
51 36.4 27.9 41.9

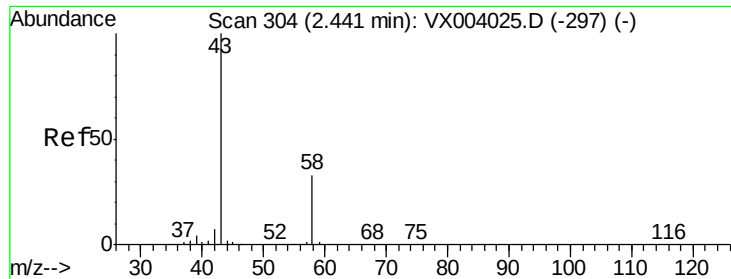


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 0.59 ug/l

RT: 2.43 min Scan# 303

Delta R.T. -0.01 min

Lab File: VX004098.D

Acq: 16 Aug 2018 03:34

Instrument :

MSVOA_X

ClientSampleId :

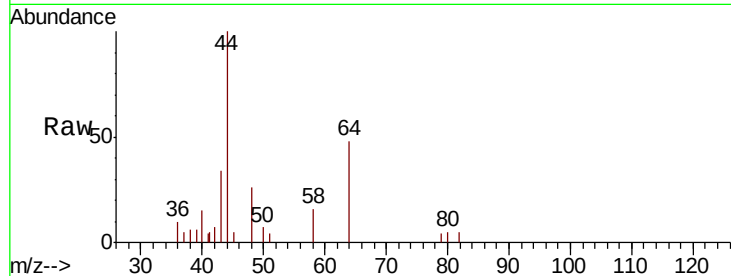
SS050MW608-180814

Tot Ion: 43 Resp: 1090

Ion Ratio Lower Upper

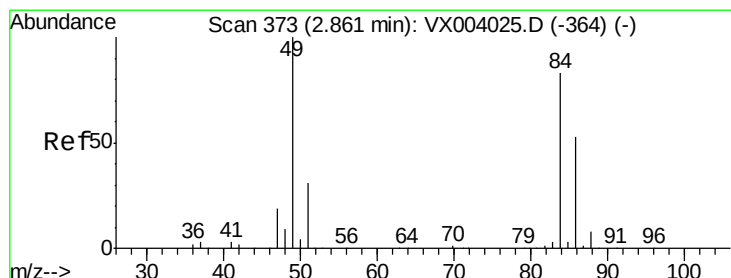
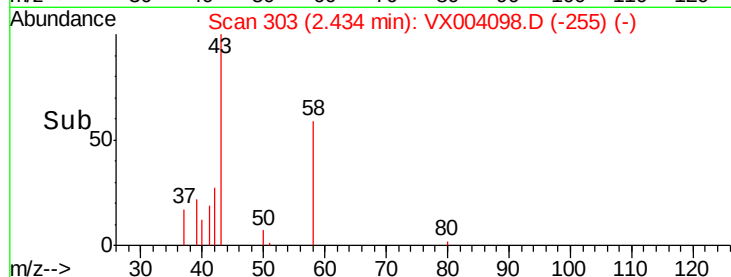
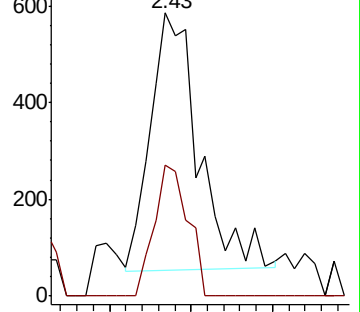
43 100

58 51.3 26.4 39.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 372

Delta R.T. -0.01 min

Lab File: VX004098.D

Acq: 16 Aug 2018 03:34

Tgt Ion: 84 Resp: 184

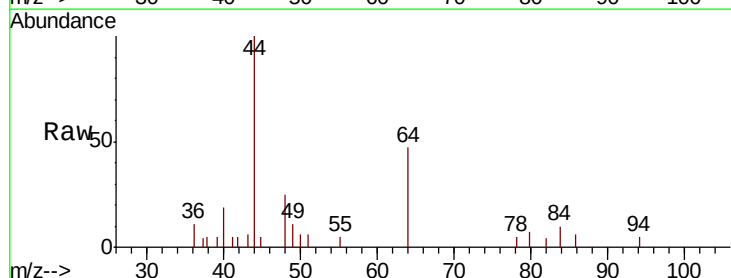
Ion Ratio Lower Upper

84 100

49 105.3 98.9 148.3

51 63.3 29.9 44.9#

86 63.3 51.0 76.6

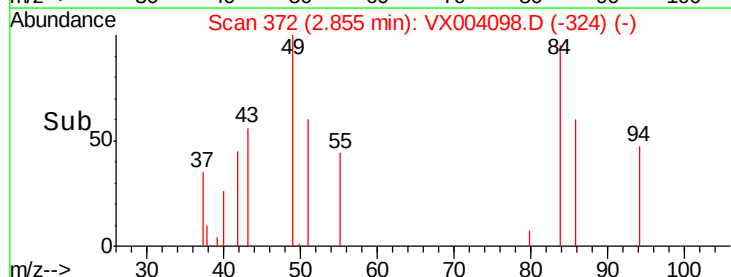
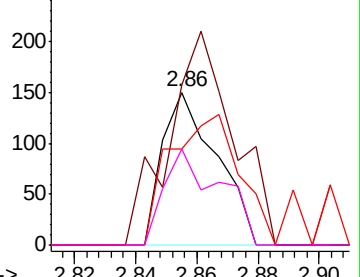


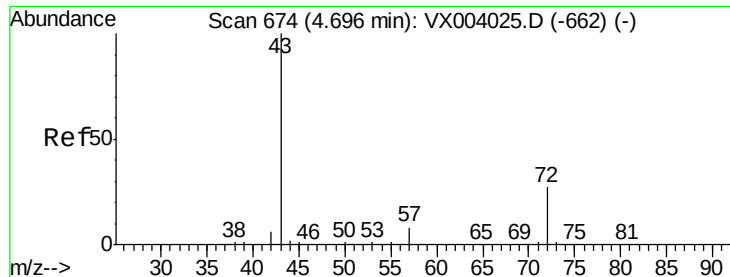
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#25

2-Butanone

Concen: 0.83 ug/l

RT: 4.69 min Scan# 673

Delta R.T. -0.01 min

Lab File: VX004098.D

Acq: 16 Aug 2018 03:34

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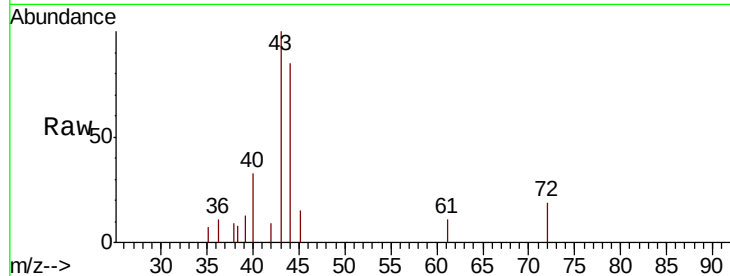
SS050MW608-180814

Tot Ion: 43 Resp: 2494

Ion Ratio Lower Upper

43 100

72 18.6 21.4 32.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.69

800

600

400

200

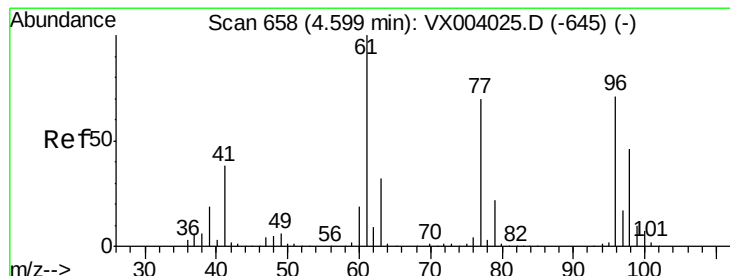
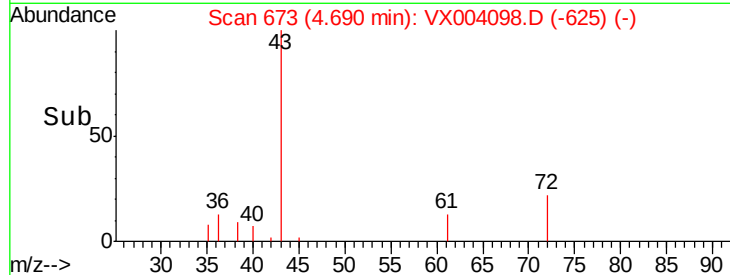
0

4.60

4.70

4.80

Time-->



#27

cis-1,2-Dichloroethene

Concen: 5.13 ug/l

RT: 4.60 min Scan# 658

Delta R.T. -0.00 min

Lab File: VX004098.D

Acq: 16 Aug 2018 03:34

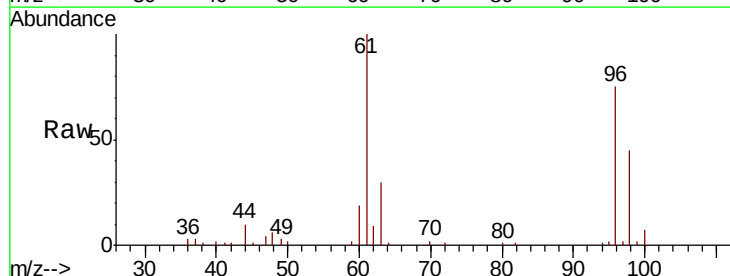
Tgt Ion: 96 Resp: 17472

Ion Ratio Lower Upper

96 100

61 137.7 0.0 293.0

98 63.1 0.0 131.8



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

10000

8000

6000

4000

2000

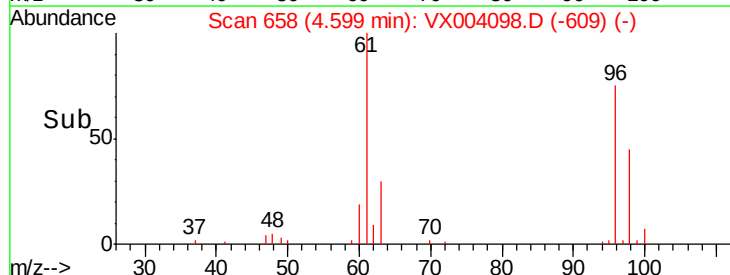
0

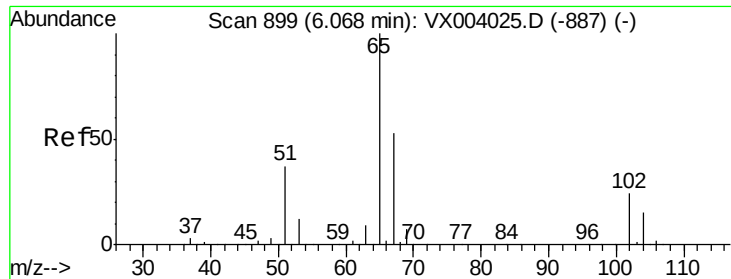
4.50

4.60

4.70

Time-->

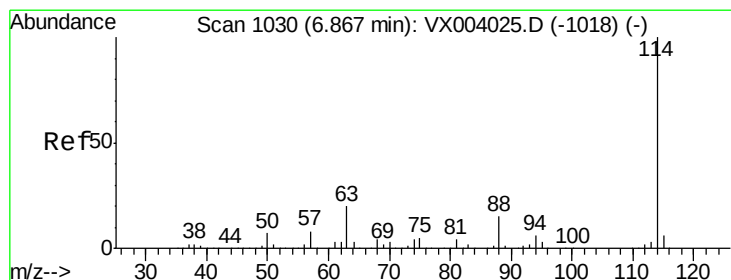
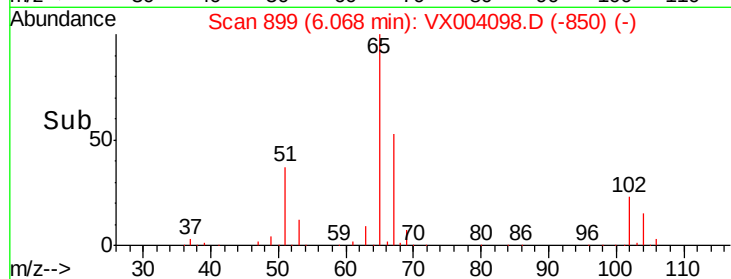
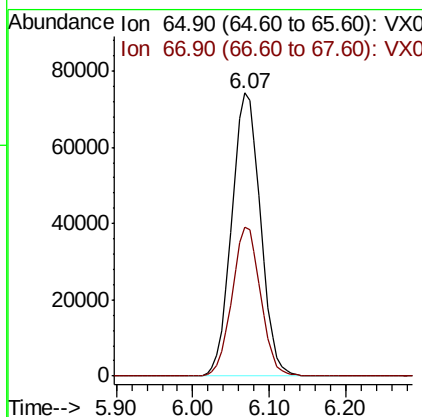
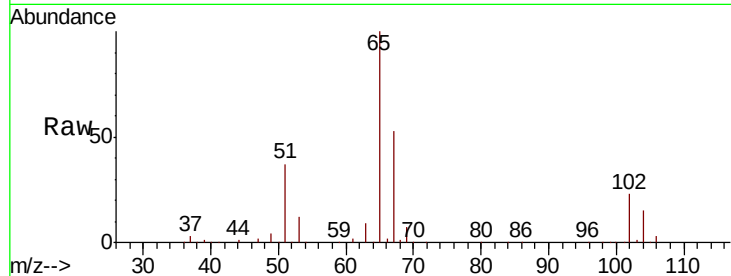




#33
 1,2-Dichloroethane-d4
 Concen: 54.11 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. -0.00 min
 Lab File: VX004098.D
 Acq: 16 Aug 2018 03:34

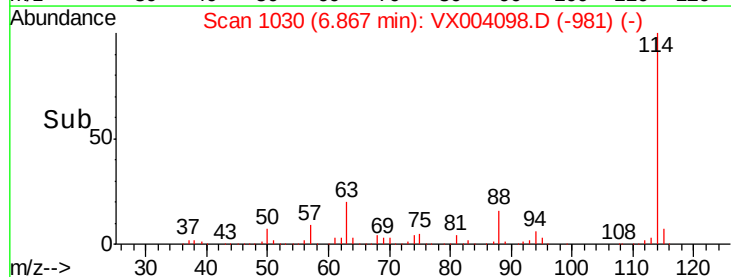
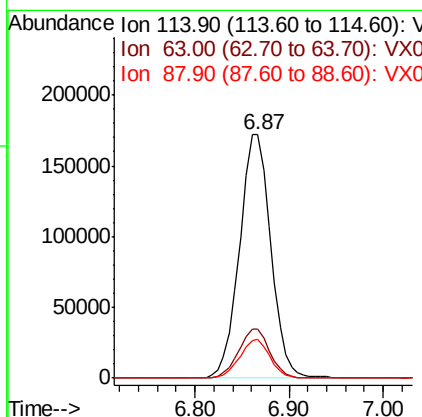
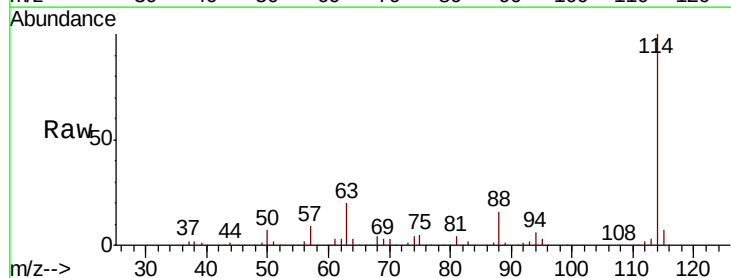
Instrument :
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 SS050MW608-180814

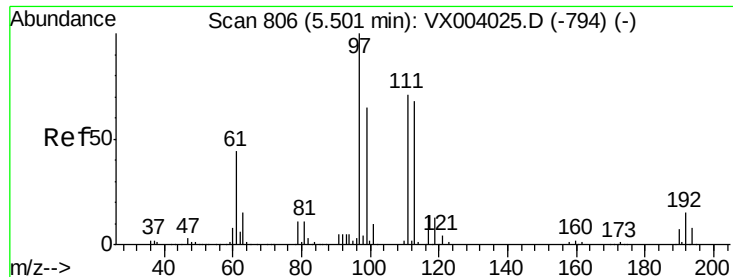
Tot Ion: 65 Resp: 193243
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX004098.D
 Acq: 16 Aug 2018 03:34

Tgt Ion: 114 Resp: 401426
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 39.0
 88 15.7 0.0 32.0

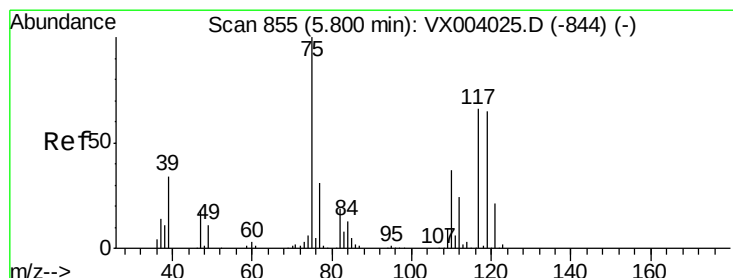
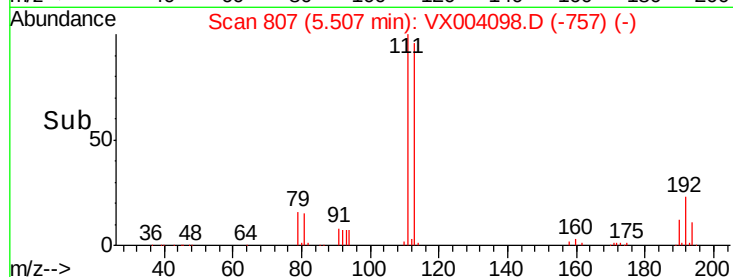
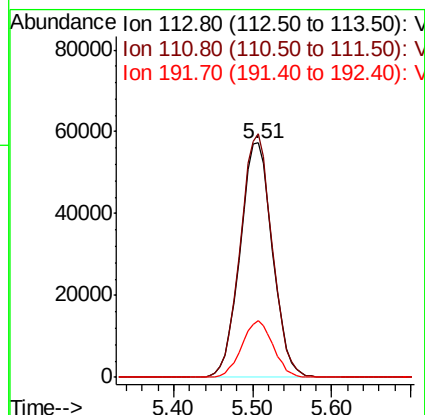
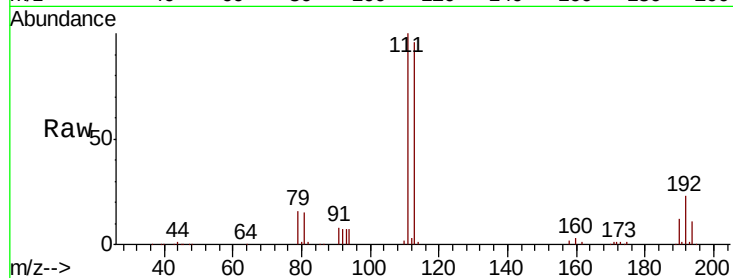




#35
 Dibromofluoromethane
 Concen: 54.59 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.01 min
 Lab File: VX004098.D
 Acq: 16 Aug 2018 03:34

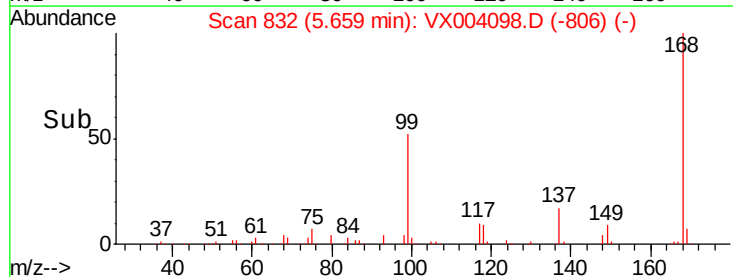
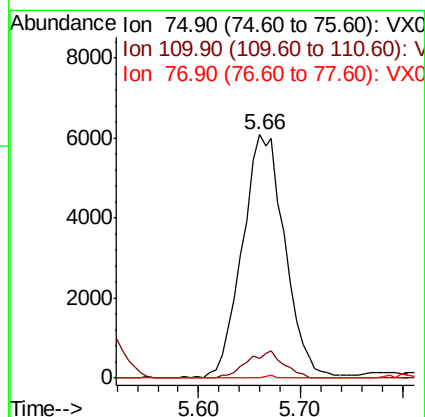
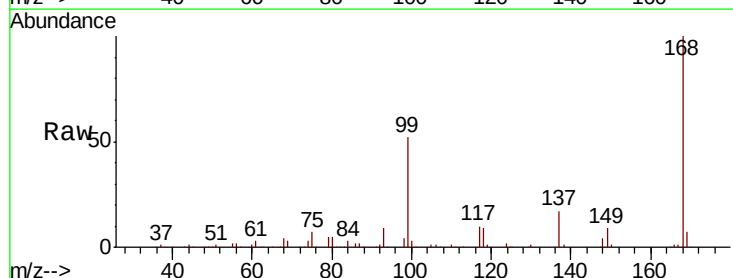
Instrument :
 MSVOA_X
 ClientSampleId :
 SS050MW608-180814

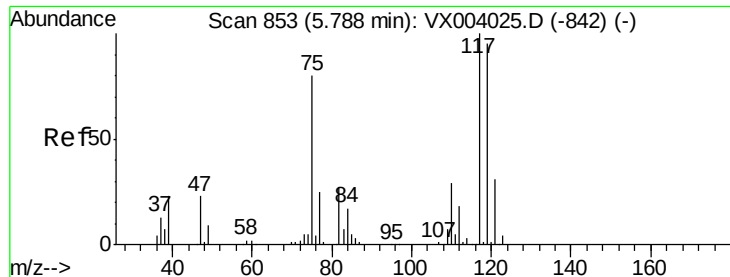
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.0	82.0	123.0
192	23.4	19.0	28.4



#36
 1,1-Dichloropropene
 Concen: 3.88 ug/l
 RT: 5.66 min Scan# 832
 Delta R.T. -0.14 min
 Lab File: VX004098.D
 Acq: 16 Aug 2018 03:34

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.6	18.2	54.6#
77	0.3	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 5.18 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.13 min

Lab File: VX004098.D

Acq: 16 Aug 2018 03:34

Instrument :

MSVOA_X

ClientSampleId :

SS050MW608-180814

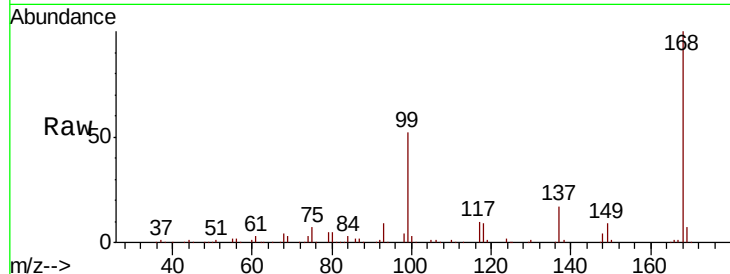
Tot Ion:117 Resp: 22985

Ion Ratio Lower Upper

117 100

119 6.0 79.5 119.3#

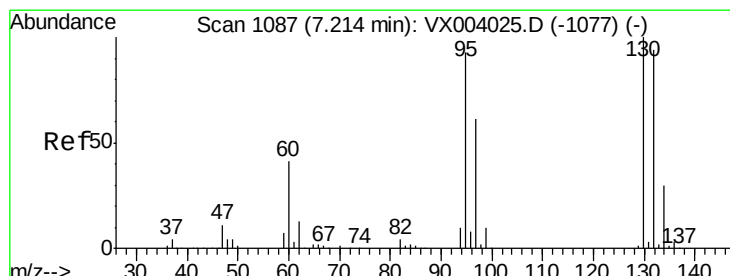
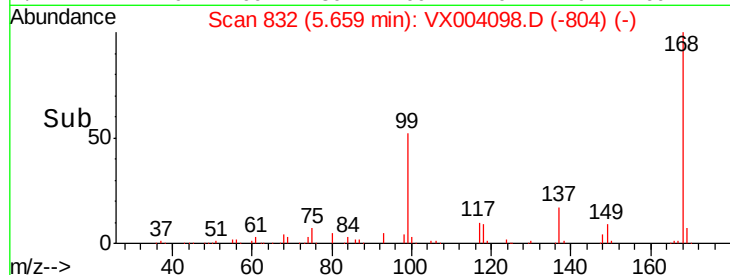
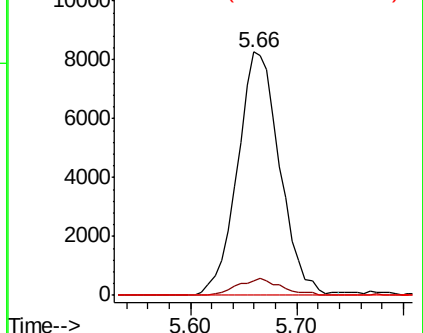
121 0.0 25.0 37.4#



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: 6.91 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX004098.D

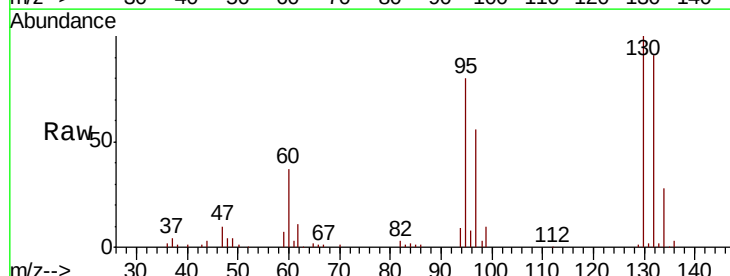
Acq: 16 Aug 2018 03:34

Tgt Ion:130 Resp: 25720

Ion Ratio Lower Upper

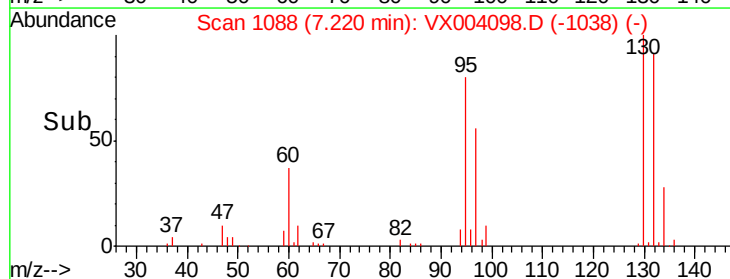
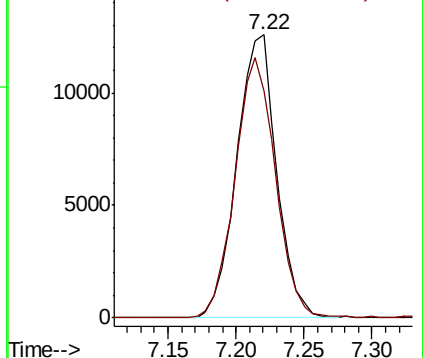
130 100

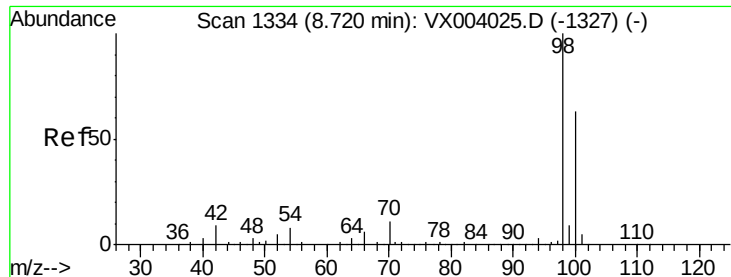
95 80.4 0.0 199.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 47.55 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX004098.D

Acq: 16 Aug 2018 03:34

Instrument :

MSVOA_X

ClientSampleId :

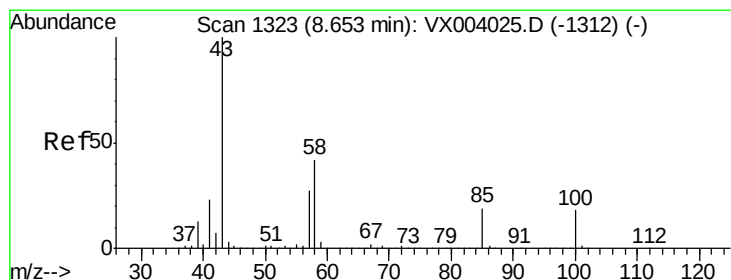
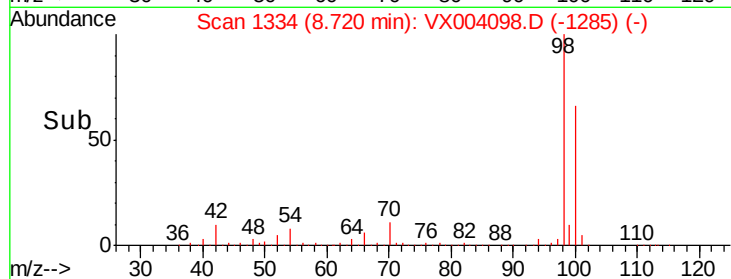
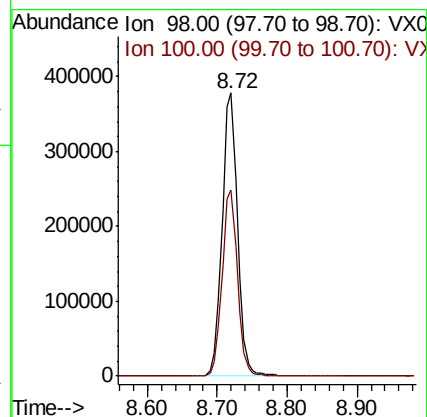
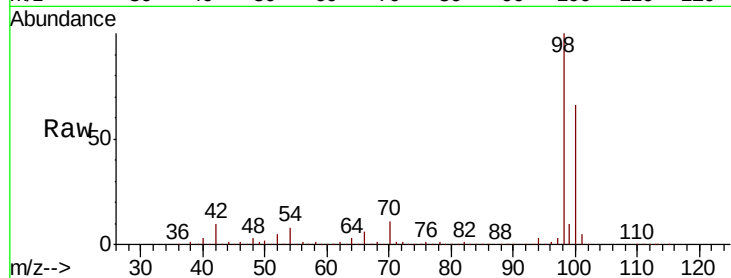
SS050MW608-180814

Tot Ion: 98 Resp: 579157

Ion Ratio Lower Upper

98 100

100 65.7 53.3 79.9



#51

4-Methyl-2-Pentanone

Concen: 0.39 ug/l

RT: 8.71 min Scan# 1333

Delta R.T. 0.06 min

Lab File: VX004098.D

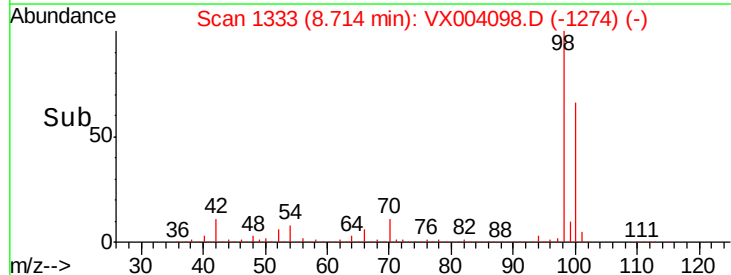
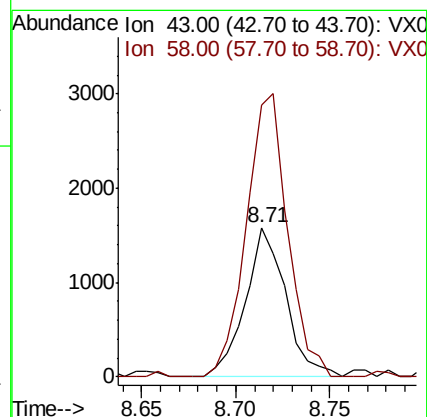
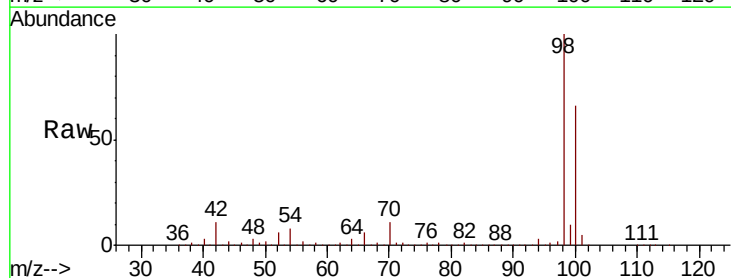
Acq: 16 Aug 2018 03:34

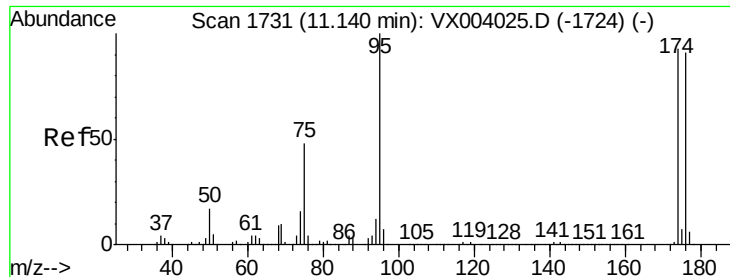
Tgt Ion: 43 Resp: 2355

Ion Ratio Lower Upper

43 100

58 193.8 33.0 49.6#





#62

4-Bromofluorobenzene

Concen: 44.35 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX004098.D

Acq: 16 Aug 2018 03:34

Instrument :

MSVOA_X

ClientSampleId :

SS050MW608-180814

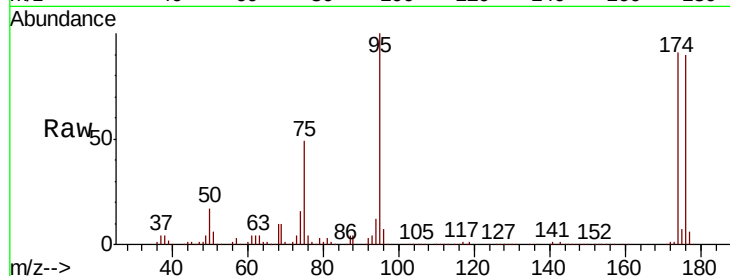
Tot Ion: 95 Resp: 195947

Ion Ratio Lower Upper

95 100

174 90.2 0.0 182.8

176 88.1 0.0 179.0



Abundance Ion 94.90 (94.60 to 95.60): VX004025.D (-1724) (-)

Ion 173.80 (173.50 to 174.50): VX004025.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX004025.D (-1724) (-)

11.14

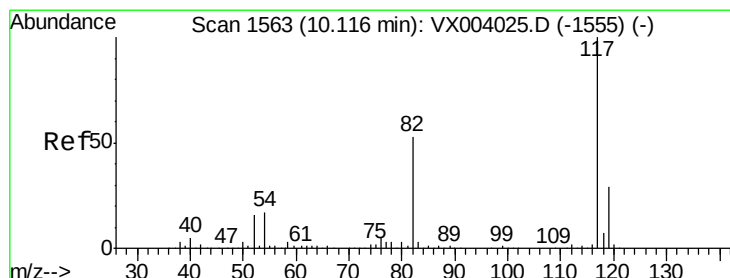
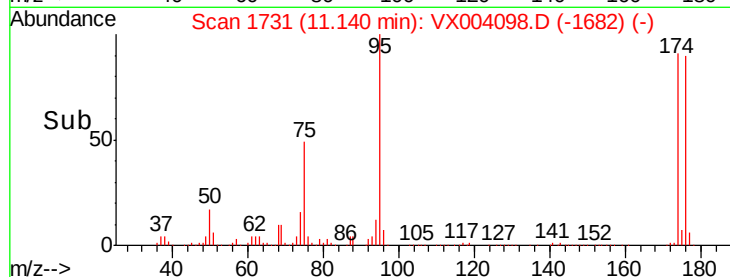
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX004098.D

Acq: 16 Aug 2018 03:34

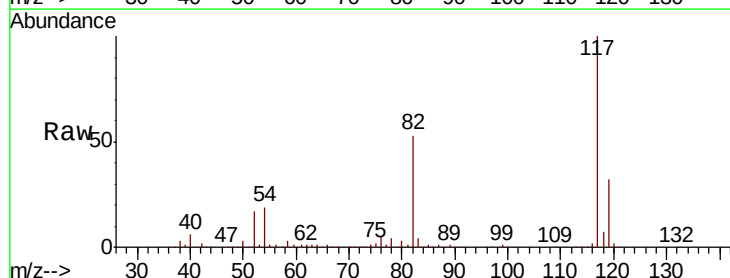
Tgt Ion: 117 Resp: 383956

Ion Ratio Lower Upper

117 100

82 53.5 45.4 68.0

119 32.4 26.6 40.0



Abundance Ion 116.90 (116.60 to 117.60): VX004025.D (-1555) (-)

Ion 82.00 (81.70 to 82.70): VX004025.D (-1555) (-)

Ion 118.90 (118.60 to 119.60): VX004025.D (-1555) (-)

10.12

400000

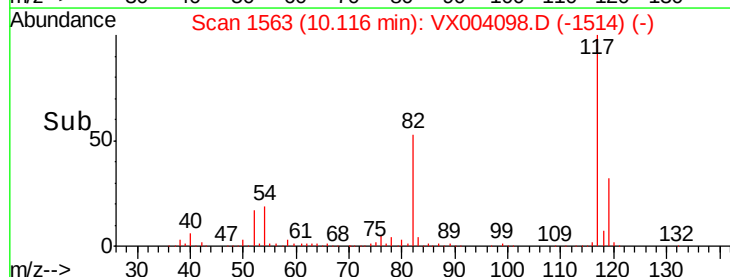
300000

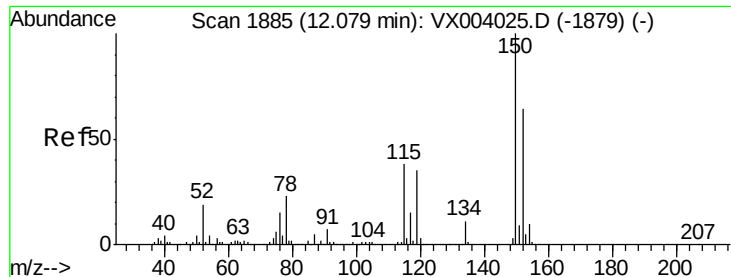
200000

100000

0

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX004098.D

Acq: 16 Aug 2018 03:34

Instrument :

MSVOA_X

ClientSampleId :

SS050MW608-180814

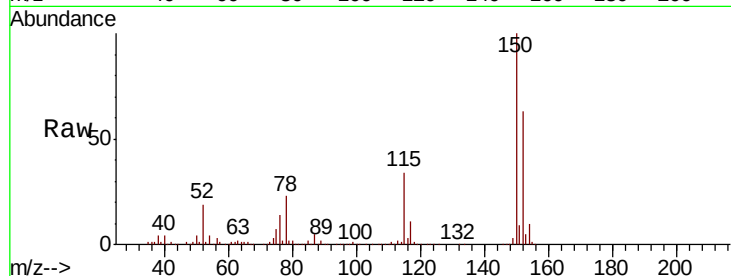
Tot Ion:152 Resp: 207819

Ion Ratio Lower Upper

152 100

115 54.5 39.1 117.3

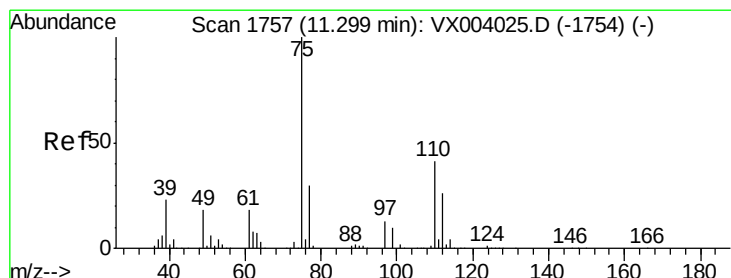
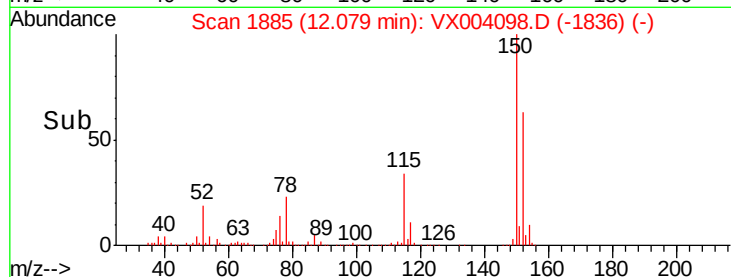
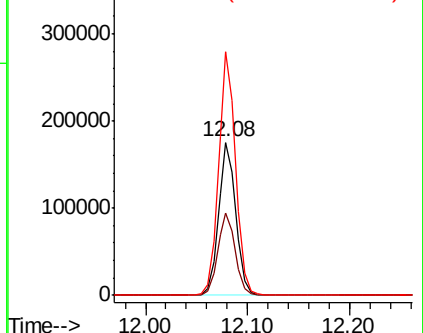
150 157.1 0.0 349.2



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: 22.73 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004098.D

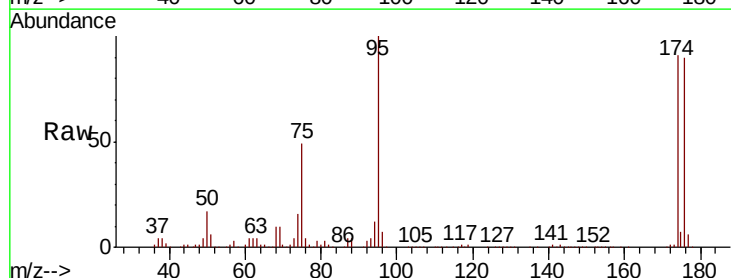
Acq: 16 Aug 2018 03:34

Tgt Ion: 75 Resp: 94744

Ion Ratio Lower Upper

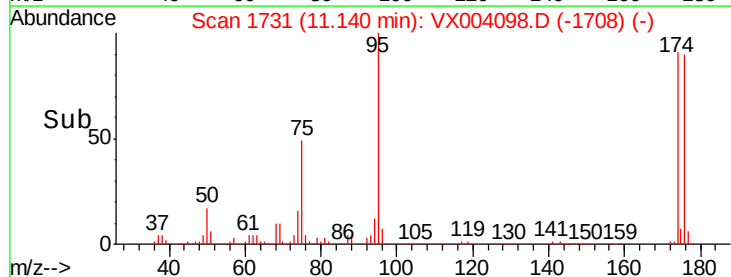
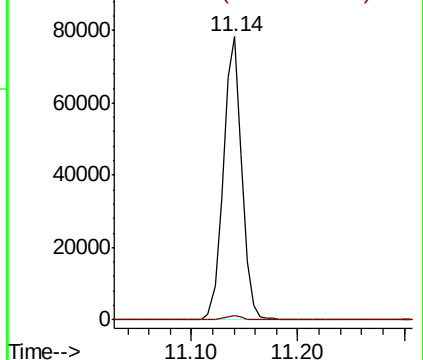
75 100

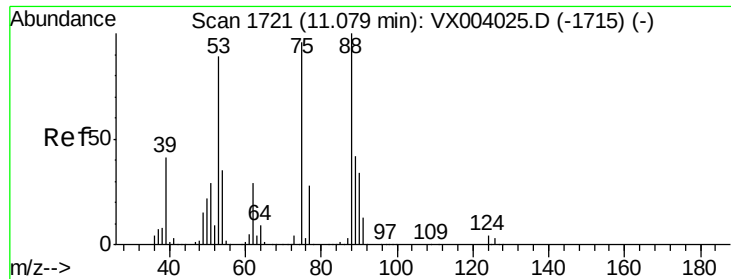
77 1.5 20.8 62.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

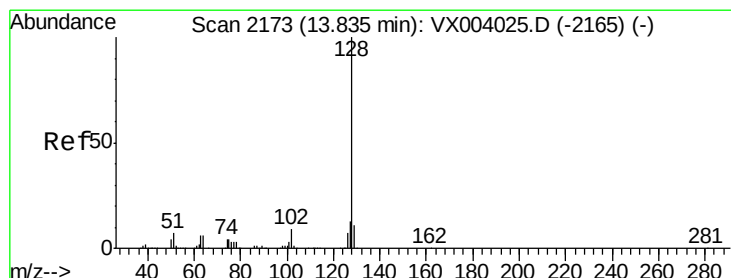
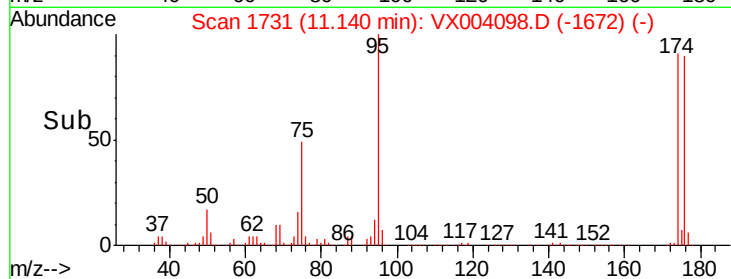
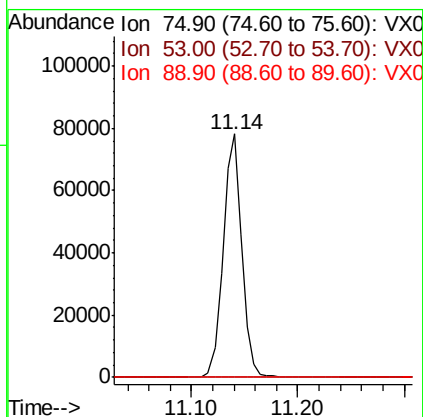
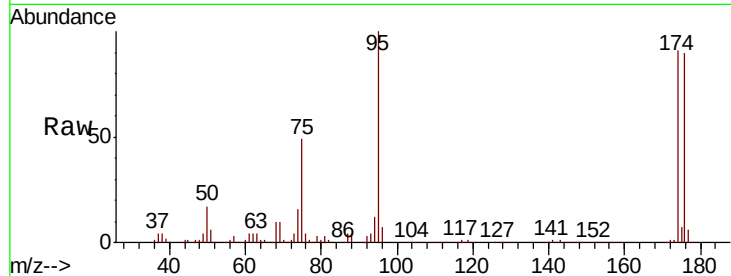




#81
trans-1,4-Dichloro-2-butene
Concen: 70.37 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.06 min
Lab File: VX004098.D
Acq: 16 Aug 2018 03:34

Instrument :
MSVOA_X
ClientSampleId :
SS050MW608-180814

Tot Ion: 75 Resp: 94744
Ion Ratio Lower Upper
75 100
53 0.3 80.3 120.5#
89 0.0 37.8 56.8#



#95
Naphthalene
Concen: 1.18 ug/l
RT: 13.83 min Scan# 2173
Delta R.T. 0.00 min
Lab File: VX004098.D
Acq: 16 Aug 2018 03:34

Tgt Ion: 128 Resp: 541
Ion Ratio Lower Upper
128 100
127 14.0 10.2 15.2
129 0.0 8.8 13.2#

