

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041619\
 Data File : VX008980.D
 Acq On : 16 Apr 2019 12:22
 Operator : JC/SP
 Sample : K2385-12DL 40X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS040MW320-190410

Quant Time: Apr 17 04:15:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 16 09:35:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	252750	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	402246	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	354786	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	156732	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	161161	45.24	ug/l	0.00
Spiked Amount			Recovery	=	90.48%	
35) Dibromofluoromethane	5.49	113	119697	46.37	ug/l	0.00
Spiked Amount			Recovery	=	92.74%	
50) Toluene-d8	8.71	98	504663	49.02	ug/l	0.00
Spiked Amount			Recovery	=	98.04%	
62) 4-Bromofluorobenzene	11.13	95	173617	47.77	ug/l	0.00
Spiked Amount			Recovery	=	95.54%	

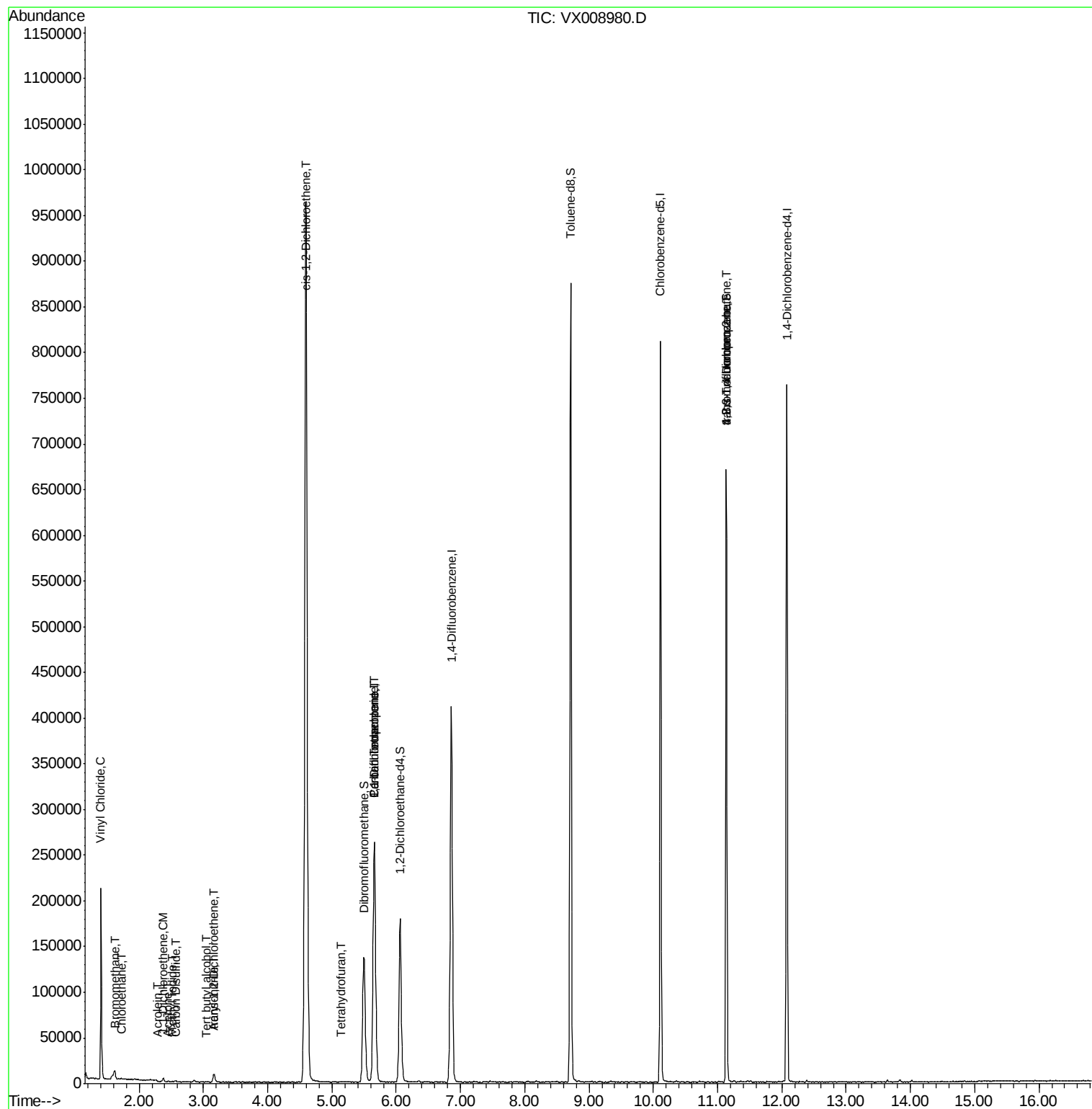
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	151217	43.471	ug/l	99
5) Bromomethane	1.64	94	440	4.035	ug/l	98
6) Chloroethane	1.73	64	499	0.244	ug/l #	44
10) Methyl Iodide	2.51	142	623	4.615	ug/l #	83
11) Tert butyl alcohol	3.04	59	183	0.231	ug/l #	58
12) 1,1-Dichloroethene	2.38	96	1197	0.442	ug/l #	81
13) Acrolein	2.29	56	396	0.580	ug/l	83
15) Acrylonitrile	3.15	53	703	0.350	ug/l #	85
16) Acetone	2.45	43	782	0.423	ug/l	92
17) Carbon Disulfide	2.57	76	1535	1.441	ug/l #	79
21) trans-1,2-Dichloroethene	3.17	96	3188	1.103	ug/l	92
27) cis-1,2-Dichloroethene	4.59	96	599502	182.643	ug/l	90
28) Bromochloromethane	5.02	49	207	Below Cal	#	21
29) Tetrahydrofuran	5.15	42	467	0.236	ug/l #	80
36) 1,1-Dichloropropene	5.66	75	20334	4.888	ug/l #	50
38) Carbon Tetrachloride	5.67	117	23618	6.697	ug/l #	18
76) 1,2,3-Trichloropropane	11.13	75	88734	23.186	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	88734	59.524	ug/l #	11

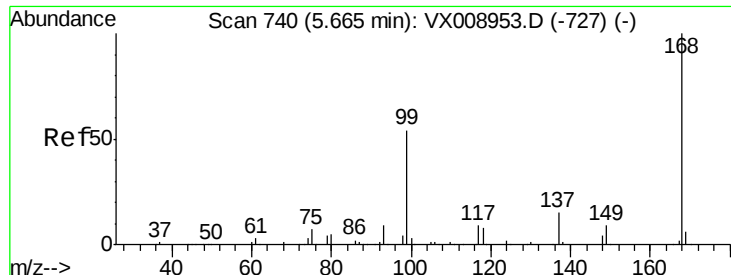
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX008980.D

Acq: 16 Apr 2019 12:22

Instrument :

MSVOA_X

ClientSampleId :

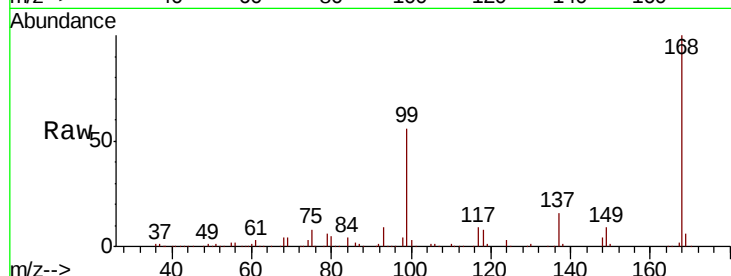
SS040MW320-190410

Tot Ion:168 Resp: 252750

Ion Ratio Lower Upper

168 100

99 55.8 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

100000

80000

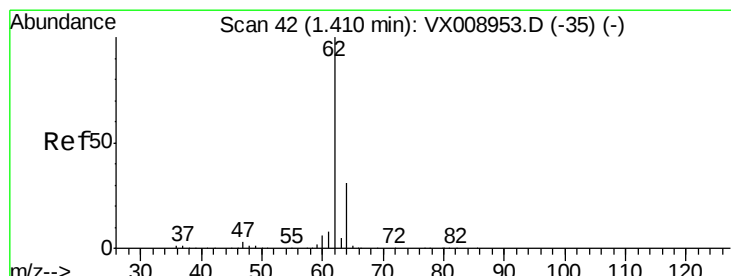
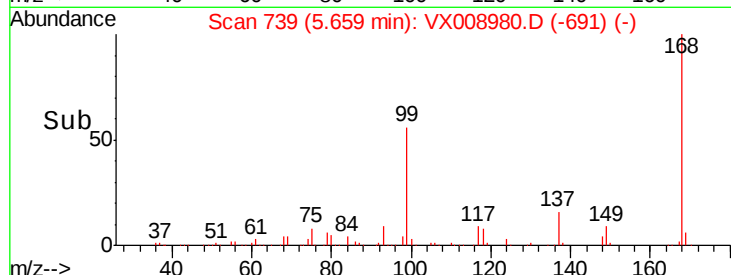
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 43.471 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.01 min

Lab File: VX008980.D

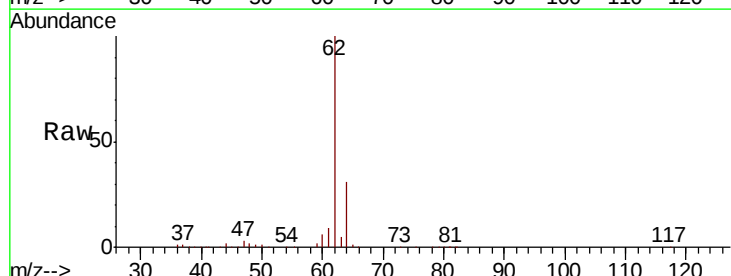
Acq: 16 Apr 2019 12:22

Tgt Ion: 62 Resp: 151217

Ion Ratio Lower Upper

62 100

64 30.7 25.0 37.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

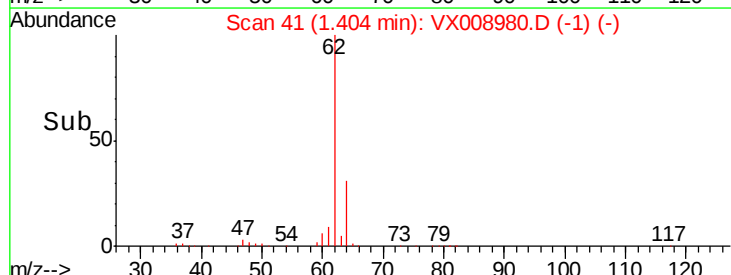
150000

100000

50000

0

Time--> 1.30 1.40 1.50





#5

Bromomethane

Concen: 4.035 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX008980.D

Acq: 16 Apr 2019 12:22

Instrument :

MSVOA_X

ClientSampleId :

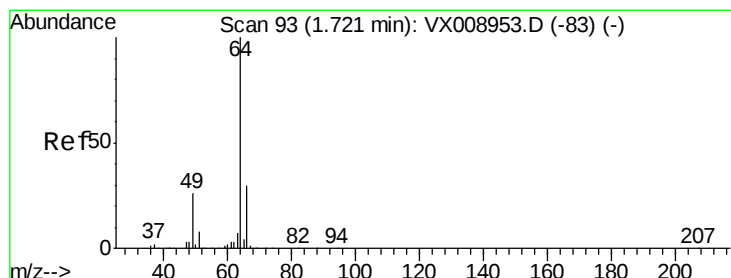
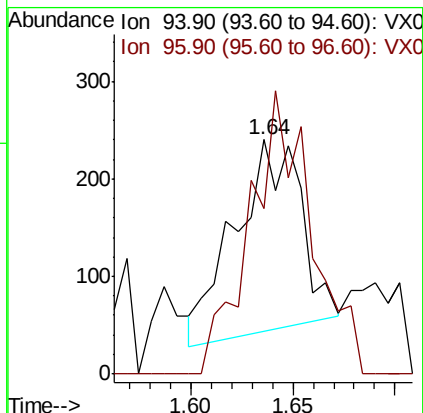
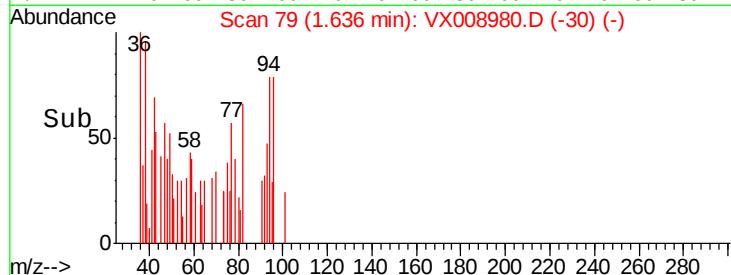
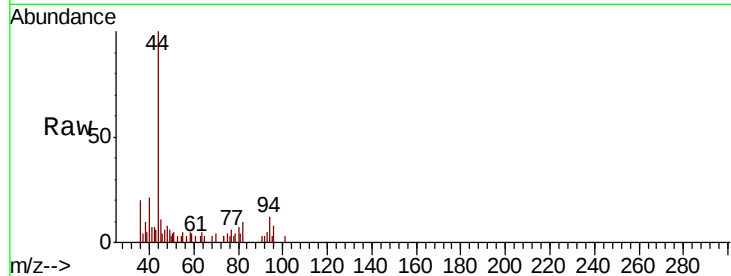
SS040MW320-190410

Tot Ion: 94 Resp: 440

Ion Ratio Lower Upper

94 100

96 93.9 73.9 110.9



#6

Chloroethane

Concen: 0.244 ug/l

RT: 1.73 min Scan# 95

Delta R.T. 0.01 min

Lab File: VX008980.D

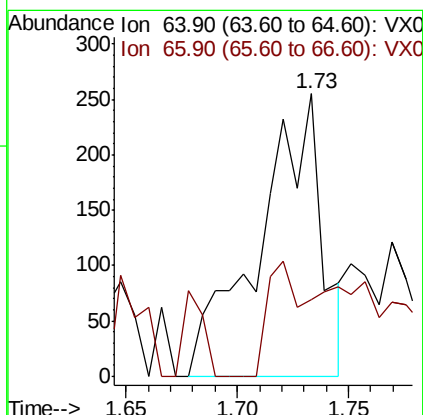
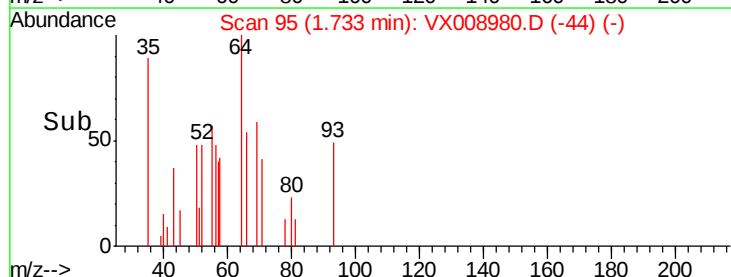
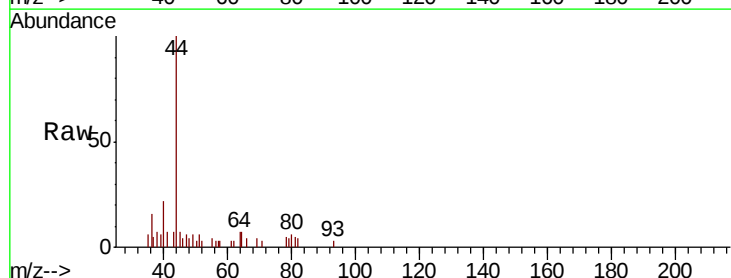
Acq: 16 Apr 2019 12:22

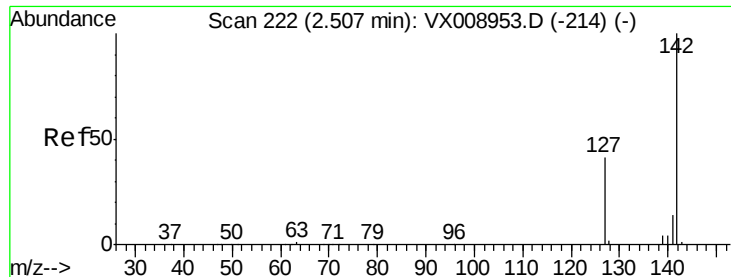
Tgt Ion: 64 Resp: 499

Ion Ratio Lower Upper

64 100

66 0.0 24.2 36.2#

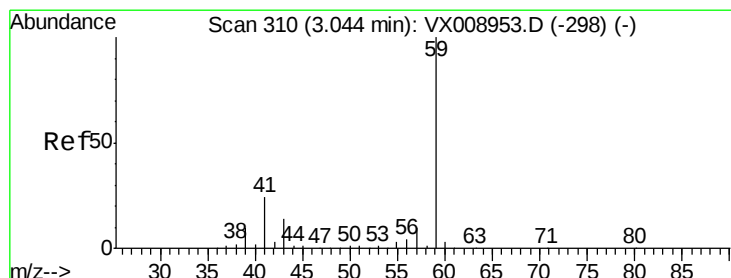
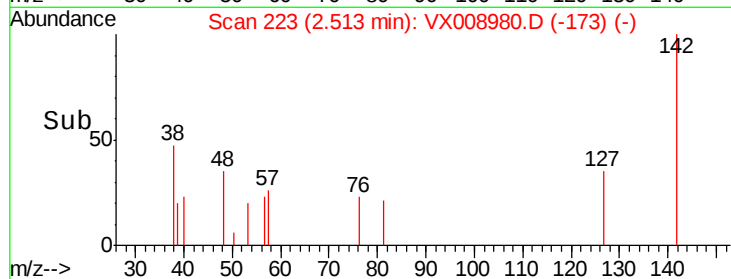
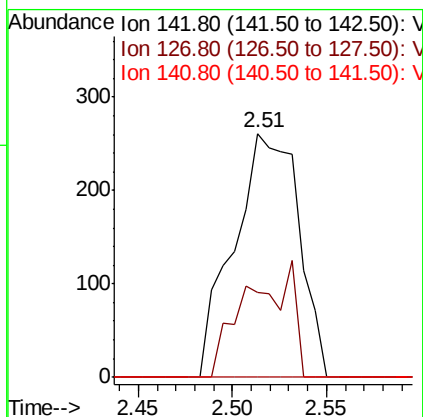
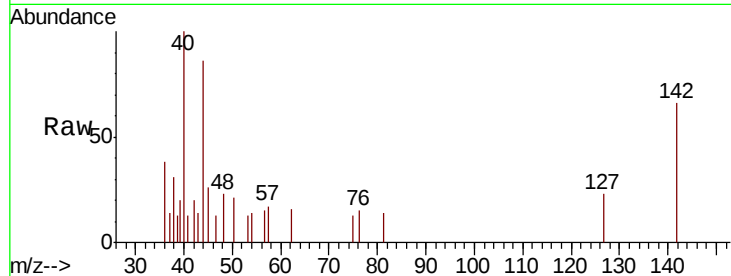




#10
Methyl Iodide
Concen: 4.615 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX008980.D
Acq: 16 Apr 2019 12:22

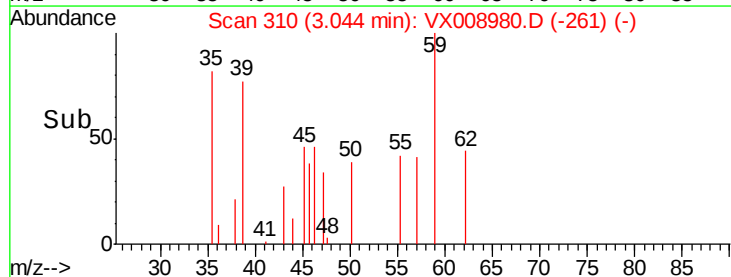
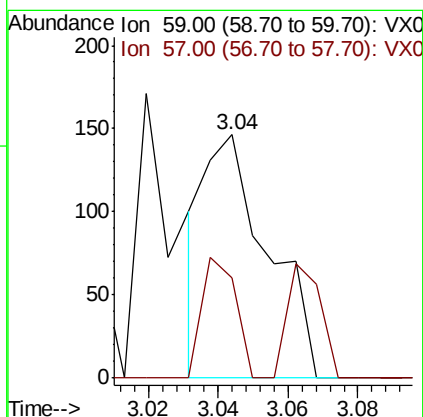
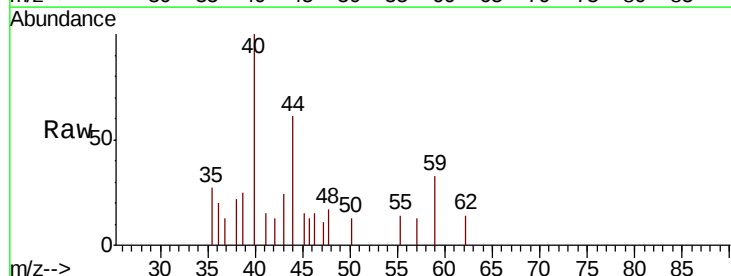
Instrument :
MSVOA_X
ClientSampleId :
SS040MW320-190410

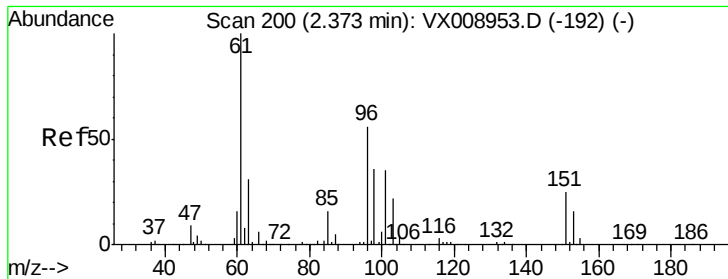
Tot Ion:142 Resp: 623
Ion Ratio Lower Upper
142 100
127 34.5 32.8 49.2
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 0.231 ug/l
RT: 3.04 min Scan# 310
Delta R.T. -0.00 min
Lab File: VX008980.D
Acq: 16 Apr 2019 12:22

Tgt Ion: 59 Resp: 183
Ion Ratio Lower Upper
59 100
57 26.2 8.4 12.6#





#12

1,1-Dichloroethene

Concen: 0.442 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.01 min

Lab File: VX008980.D

Acq: 16 Apr 2019 12:22

Instrument :

MSVOA_X

ClientSampleId :

SS040MW320-190410

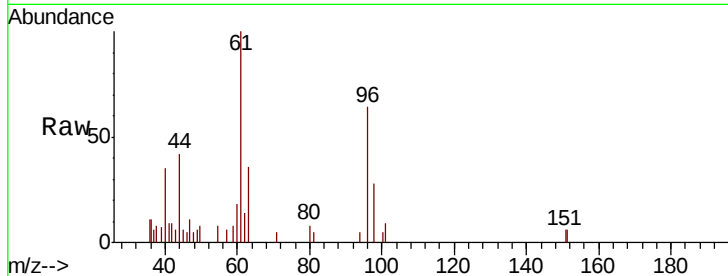
Tot Ion: 96 Resp: 1197

Ion Ratio Lower Upper

96 100

61 155.2 142.2 213.2

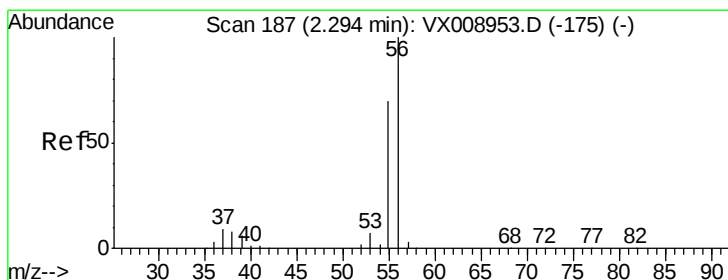
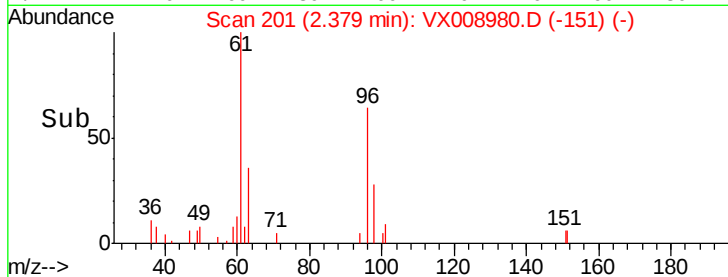
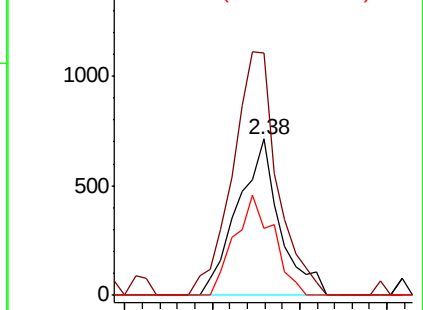
98 43.0 50.9 76.3#



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



#13

Acrolein

Concen: 0.580 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX008980.D

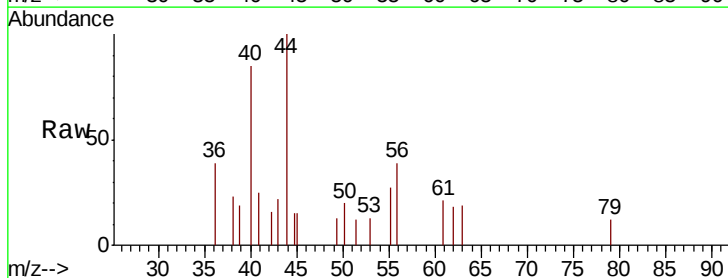
Acq: 16 Apr 2019 12:22

Tgt Ion: 56 Resp: 396

Ion Ratio Lower Upper

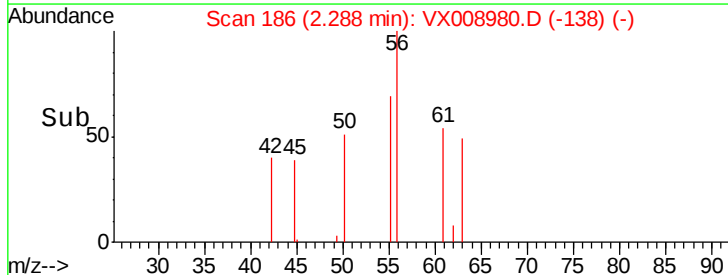
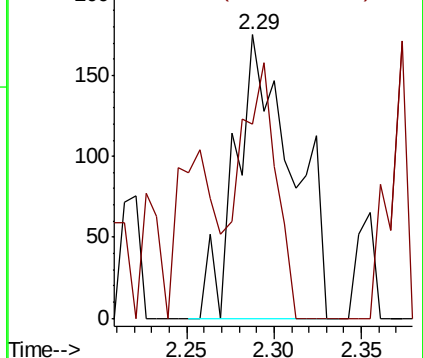
56 100

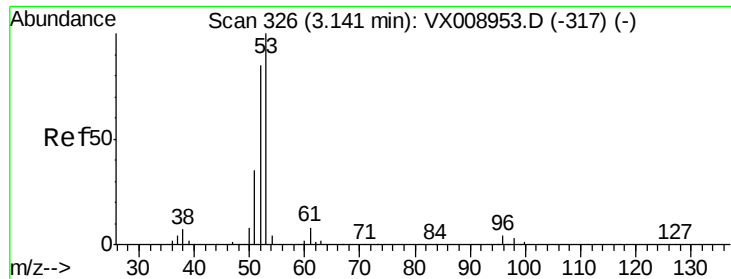
55 56.6 56.6 84.8



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acrylonitrile

Concen: 0.350 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX008980.D

Acq: 16 Apr 2019 12:22

Instrument :

MSVOA_X

ClientSampleId :

SS040MW320-190410

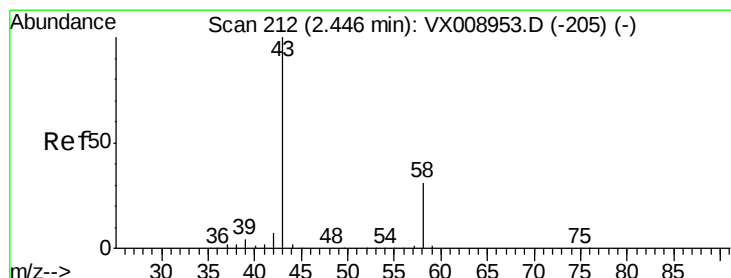
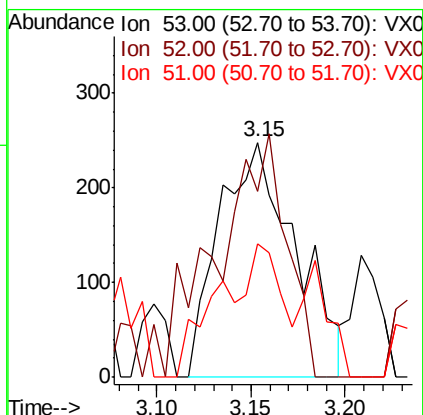
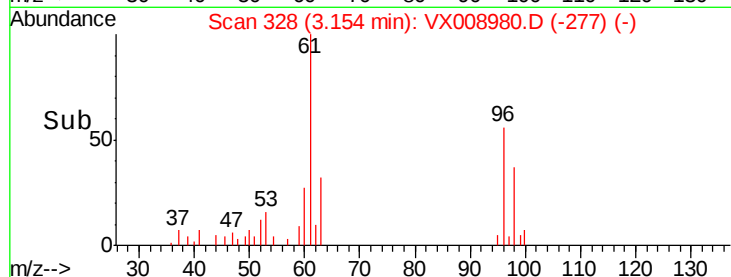
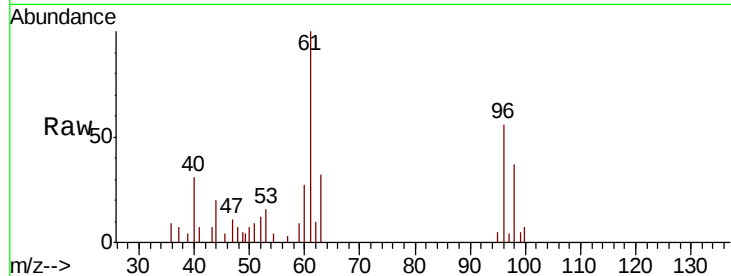
Tot Ion: 53 Resp: 703

Ion Ratio Lower Upper

53 100

52 96.0 66.6 100.0

51 45.8 28.3 42.5#



#16

Acetone

Concen: 0.423 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX008980.D

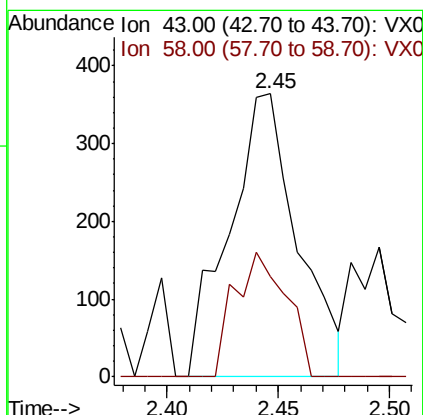
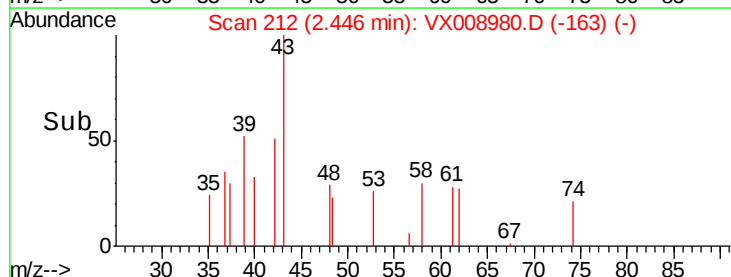
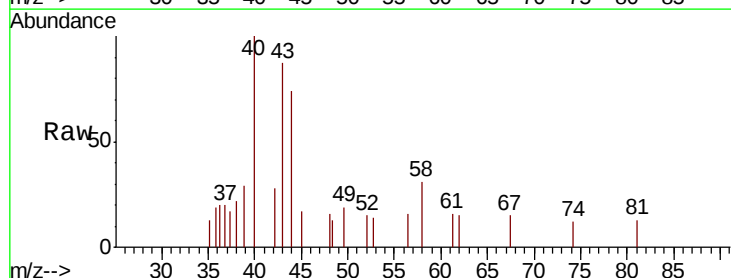
Acq: 16 Apr 2019 12:22

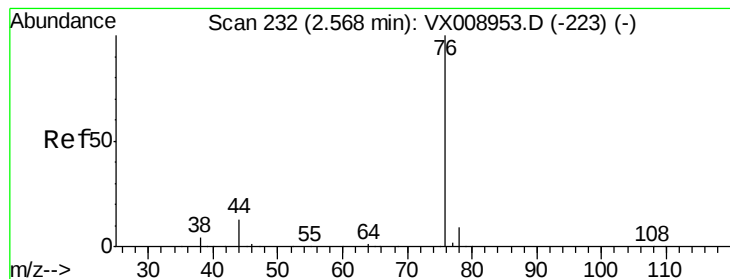
Tgt Ion: 43 Resp: 782

Ion Ratio Lower Upper

43 100

58 35.4 24.8 37.2





#17

Carbon Disulfide

Concen: 1.441 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008980.D

Acq: 16 Apr 2019 12:22

Instrument :

MSVOA_X

ClientSampleId :

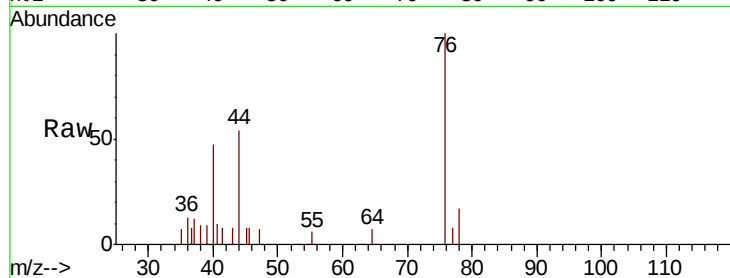
SS040MW320-190410

Tot Ion: 76 Resp: 1535

Ion Ratio Lower Upper

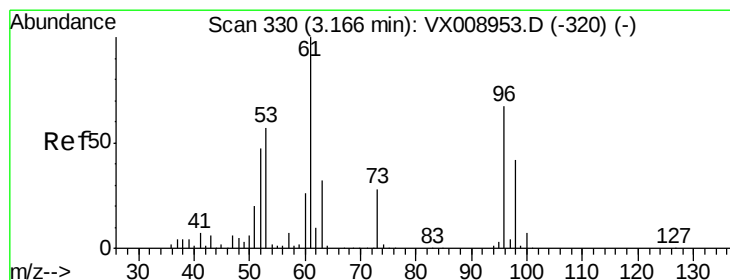
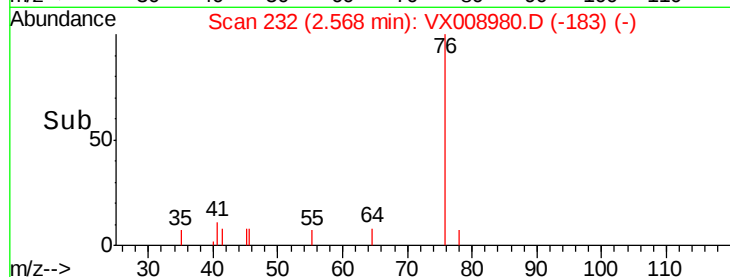
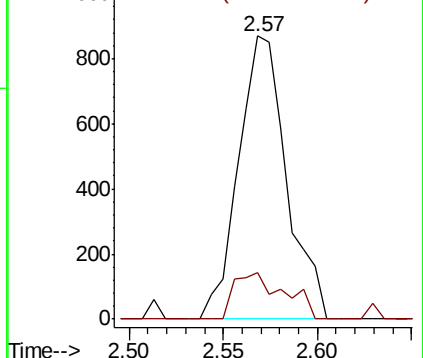
76 100

78 16.7 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#21

trans-1,2-Dichloroethene

Concen: 1.103 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX008980.D

Acq: 16 Apr 2019 12:22

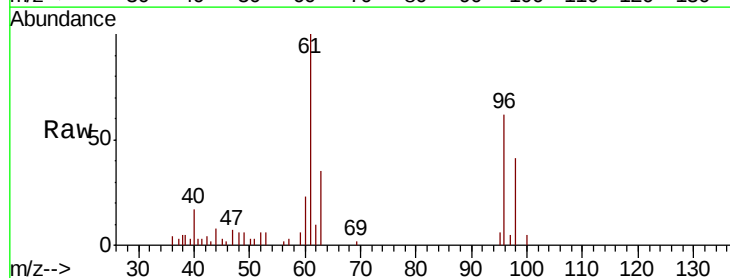
Tgt Ion: 96 Resp: 3188

Ion Ratio Lower Upper

96 100

61 161.9 120.3 180.5

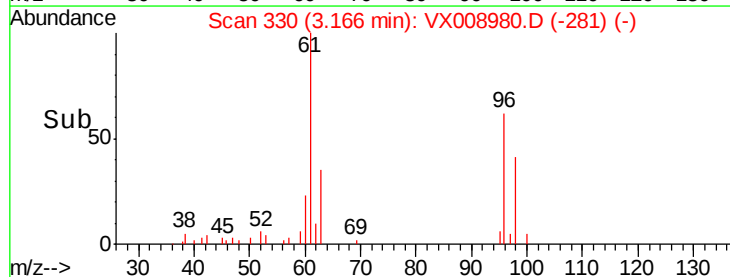
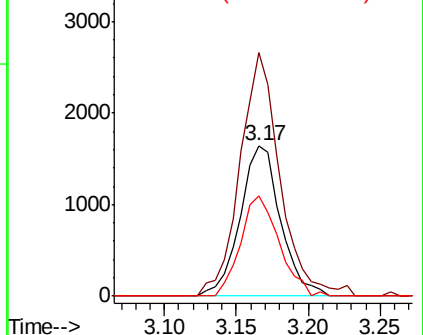
98 66.9 50.2 75.2

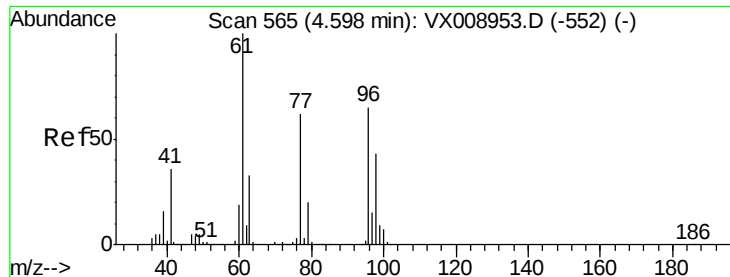


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



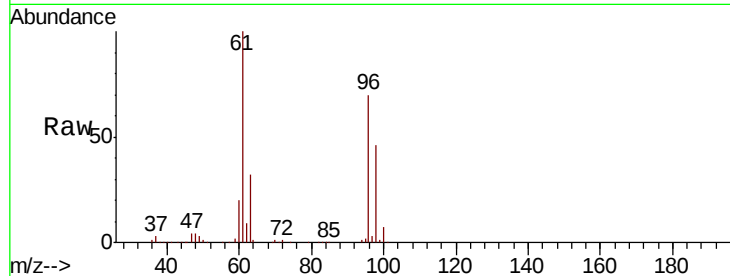


#27

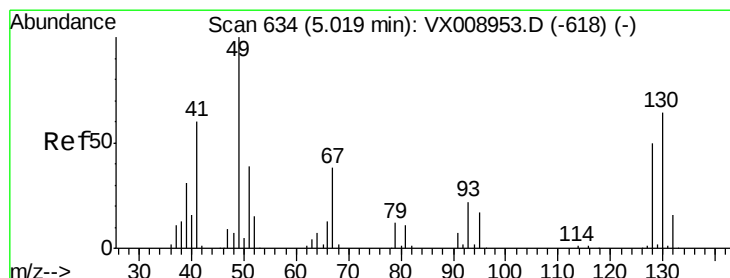
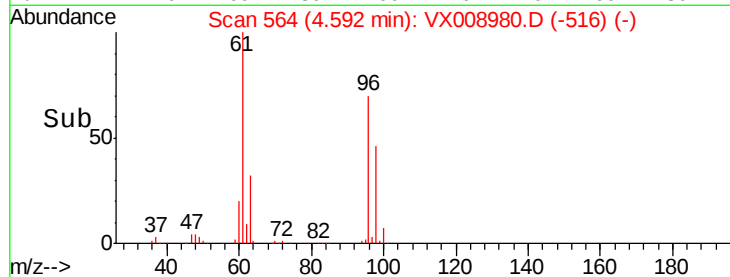
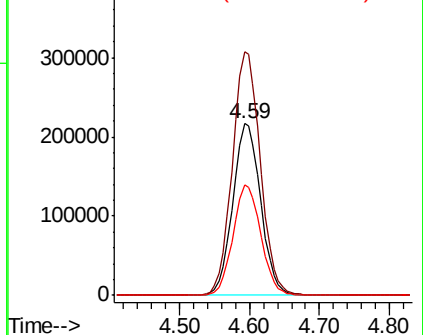
cis-1,2-Dichloroethene
 Concen: 182.643 ug/l
 RT: 4.59 min Scan# 564
 Delta R.T. -0.01 min
 Lab File: VX008980.D
 Acq: 16 Apr 2019 12:22

Instrument :
 MSVOA_X
 ClientSampleId :
 SS040MW320-190410

Tot Ion	Ratio	Lower	Upper
96	100		
61	142.7	0.0	322.0
98	64.5	0.0	128.4



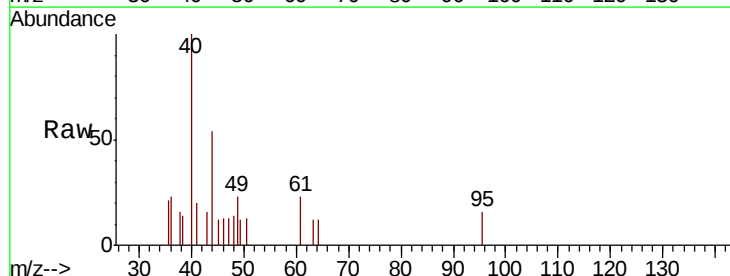
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



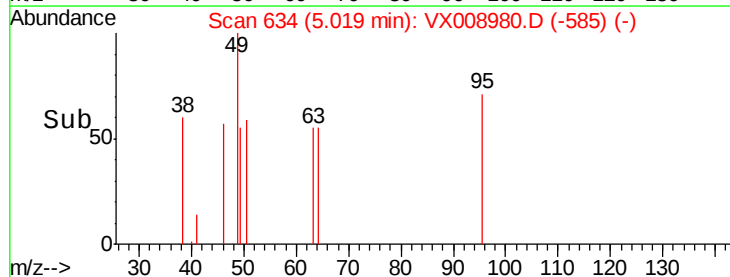
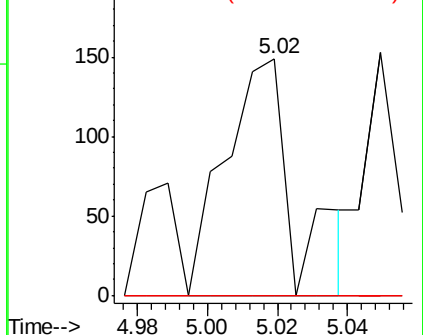
#28

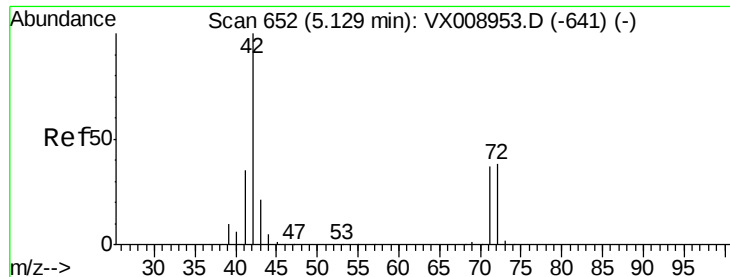
Bromochloromethane
 Concen: Below Cal
 RT: 5.02 min Scan# 634
 Delta R.T. 0.00 min
 Lab File: VX008980.D
 Acq: 16 Apr 2019 12:22

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

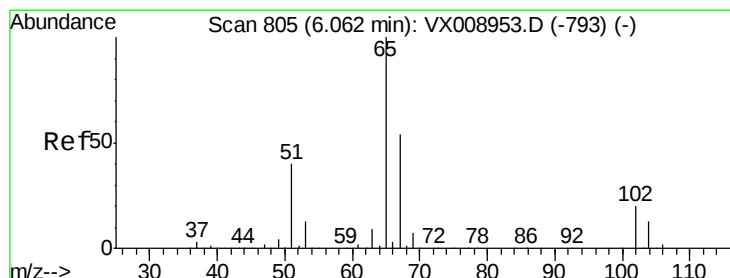
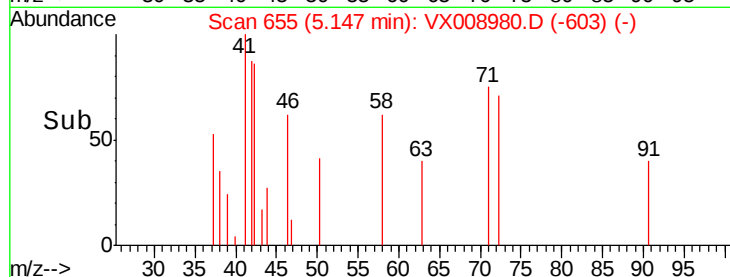
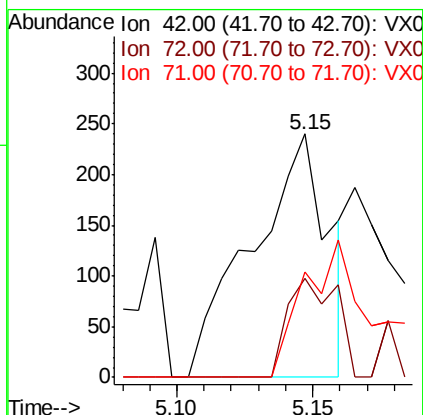
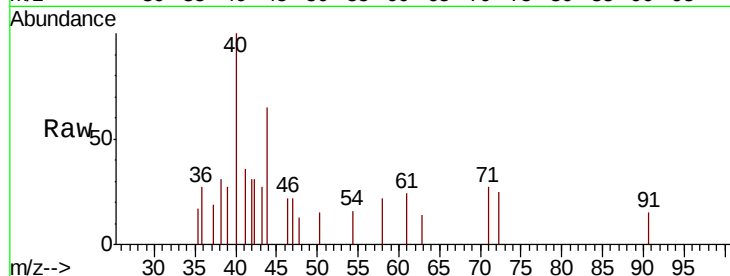




#29
Tetrahydrofuran
Concen: 0.236 ug/l
RT: 5.15 min Scan# 655
Delta R.T. 0.02 min
Lab File: VX008980.D
Acq: 16 Apr 2019 12:22

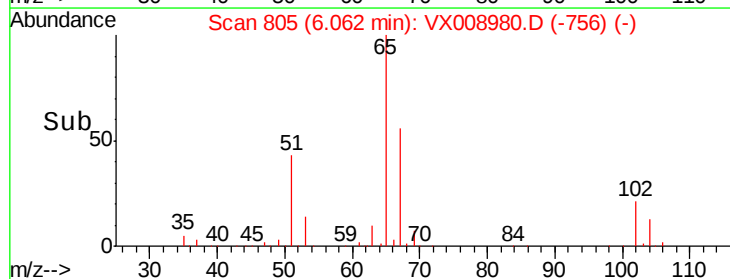
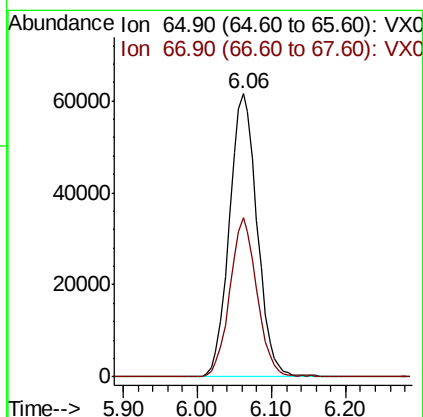
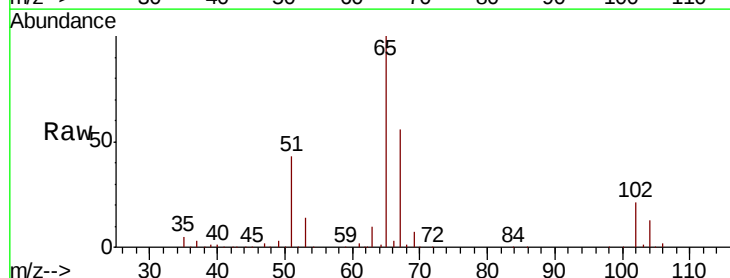
Instrument :
MSVOA_X
ClientSampleId :
SS040MW320-190410

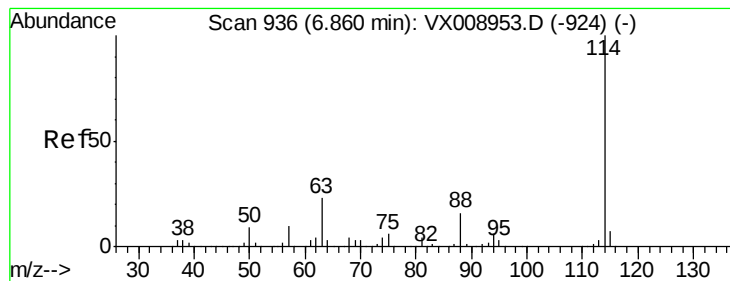
Tot Ion: 42 Resp: 467
Ion Ratio Lower Upper
42 100
72 26.3 30.6 45.8#
71 48.0 28.8 43.2#



#33
1,2-Dichloroethane-d4
Concen: 45.245 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX008980.D
Acq: 16 Apr 2019 12:22

Tgt Ion: 65 Resp: 161161
Ion Ratio Lower Upper
65 100
67 54.7 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: VX008980.D

Acq: 16 Apr 2019 12:22

Instrument :

MSVOA_X

ClientSampleId :

SS040MW320-190410

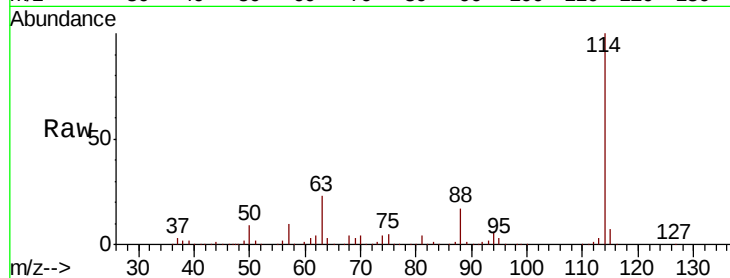
Tot Ion:114 Resp: 402246

Ion Ratio Lower Upper

114 100

63 22.7 0.0 46.0

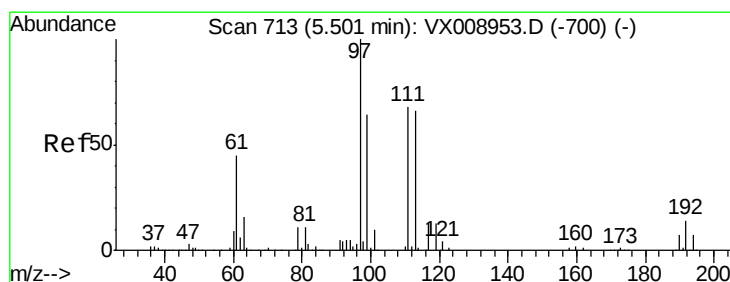
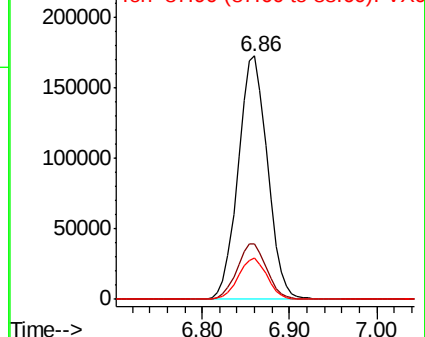
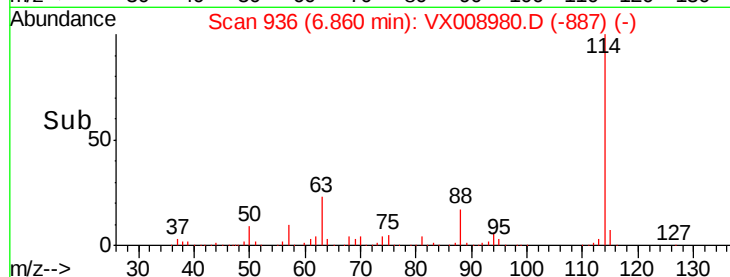
88 16.9 0.0 32.6



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: 46.367 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

Lab File: VX008980.D

Acq: 16 Apr 2019 12:22

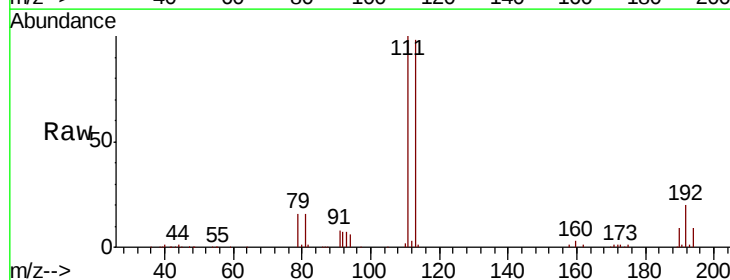
Tgt Ion:113 Resp: 119697

Ion Ratio Lower Upper

113 100

111 102.7 82.9 124.3

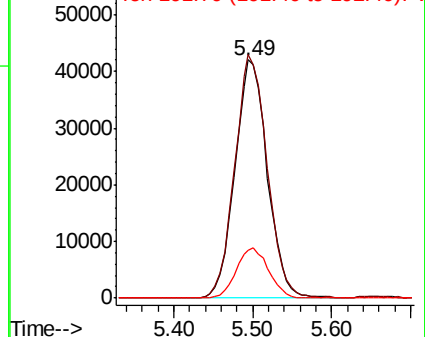
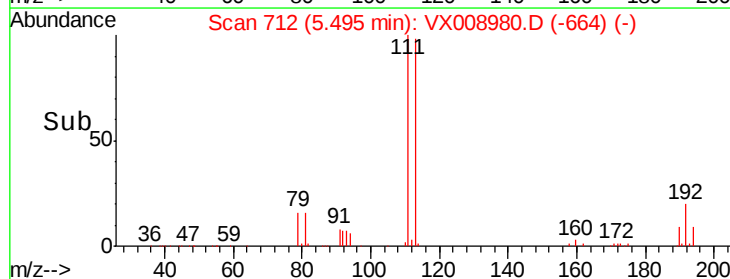
192 21.2 17.4 26.0

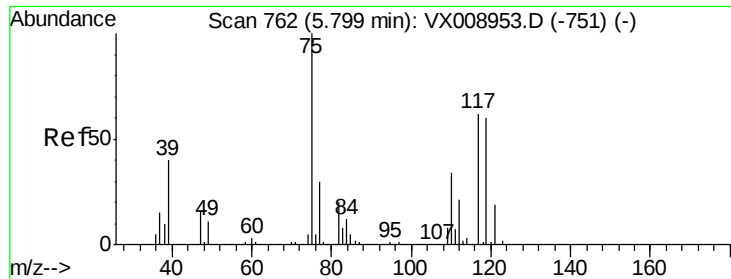


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.888 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008980.D

Acq: 16 Apr 2019 12:22

Instrument :

MSVOA_X

ClientSampleId :

SS040MW320-190410

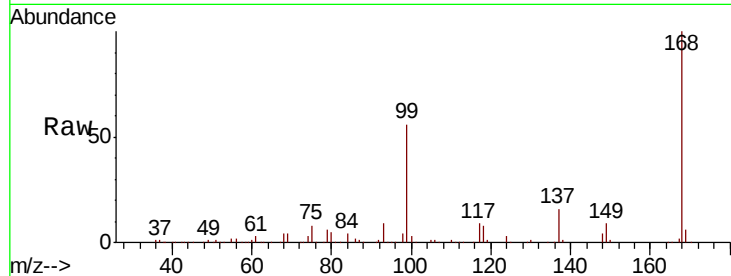
Tot Ion: 75 Resp: 20334

Ion Ratio Lower Upper

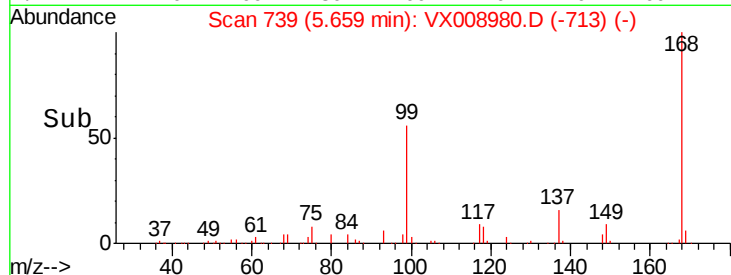
75 100

110 8.5 16.9 50.7#

77 0.0 25.0 37.4#

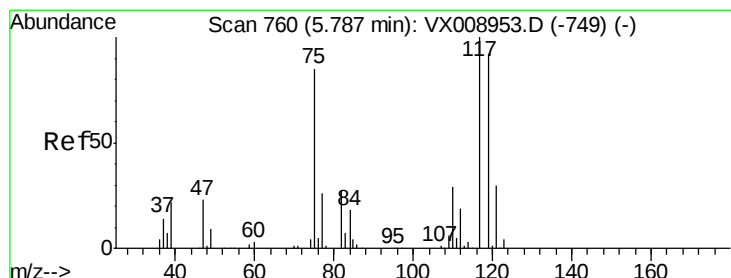
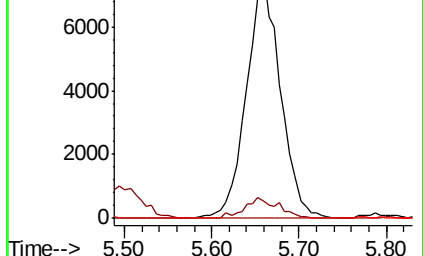


Abundance Ion 74.90 (74.60 to 75.60): VX008980.D (-713) (-)



Ion 109.90 (109.60 to 110.60): VX008980.D (-713) (-)

Ion 76.90 (76.60 to 77.60): VX008980.D (-713) (-)



#38

Carbon Tetrachloride

Concen: 6.697 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008980.D

Acq: 16 Apr 2019 12:22

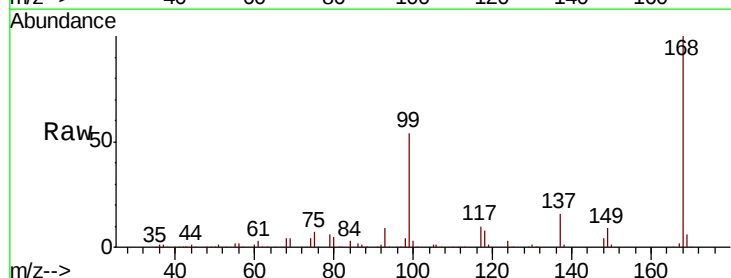
Tgt Ion: 117 Resp: 23618

Ion Ratio Lower Upper

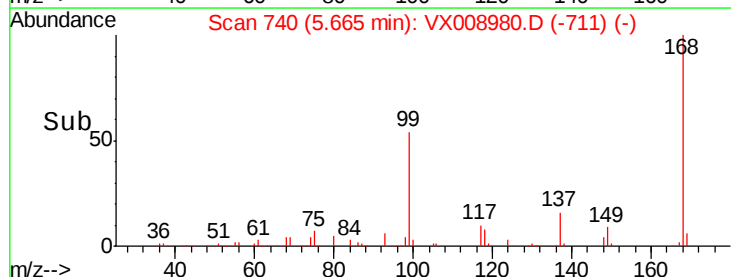
117 100

119 5.9 73.8 110.8#

121 0.0 23.6 35.4#

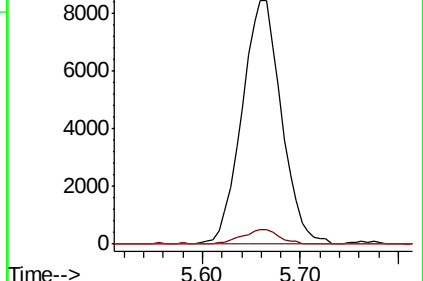


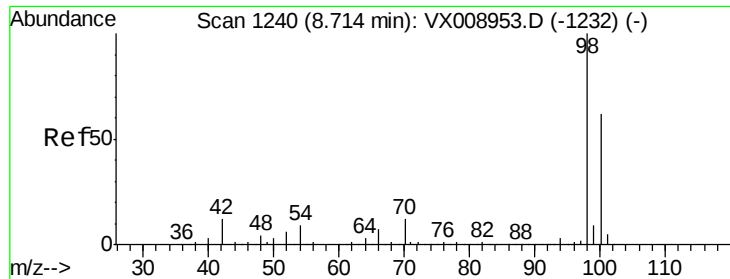
Abundance Ion 116.80 (116.50 to 117.50): VX008980.D (-711) (-)



Ion 118.80 (118.50 to 119.50): VX008980.D (-711) (-)

Ion 120.80 (120.50 to 121.50): VX008980.D (-711) (-)





#50

Toluene-d8

Concen: 49.019 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008980.D

Acq: 16 Apr 2019 12:22

Instrument :

MSVOA_X

ClientSampleId :

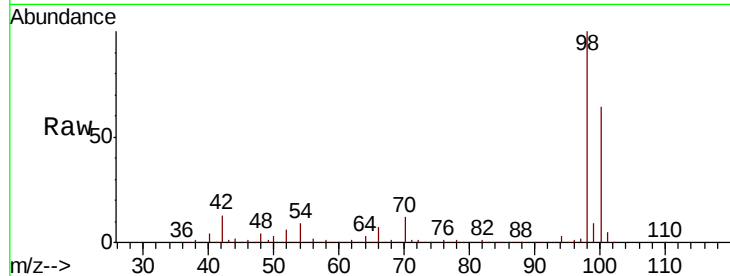
SS040MW320-190410

Tot Ion: 98 Resp: 504663

Ion Ratio Lower Upper

98 100

100 64.4 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

300000

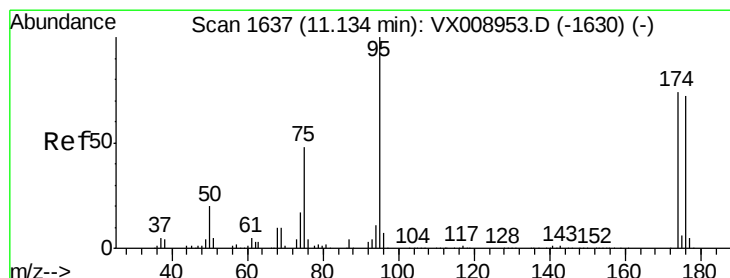
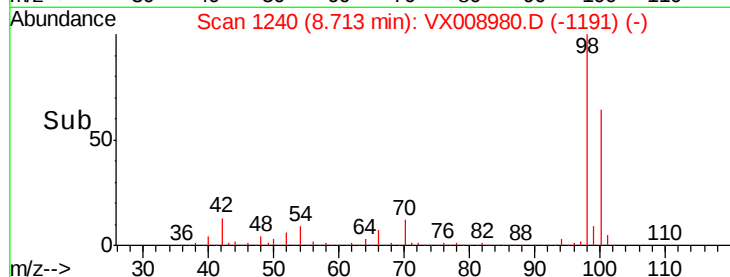
200000

100000

0

8.60 8.70 8.80

Time-->



#62

4-Bromofluorobenzene

Concen: 47.773 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008980.D

Acq: 16 Apr 2019 12:22

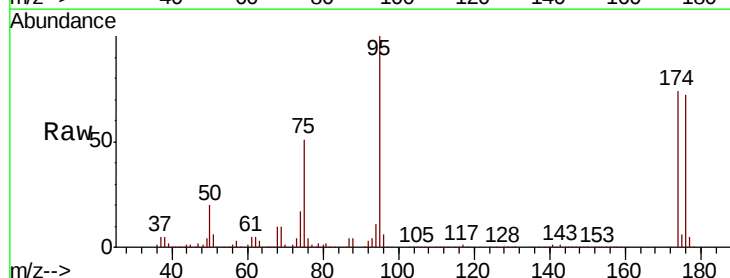
Tgt Ion: 95 Resp: 173617

Ion Ratio Lower Upper

95 100

174 79.6 0.0 159.6

176 76.7 0.0 154.8



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

11.13

150000

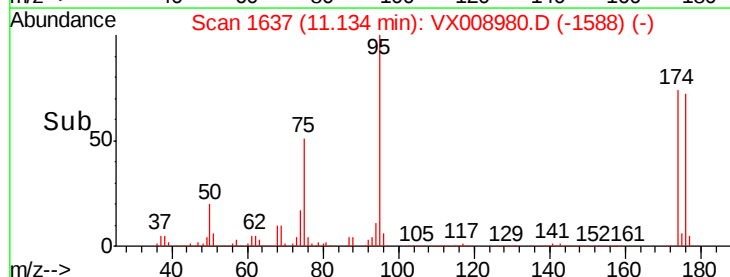
100000

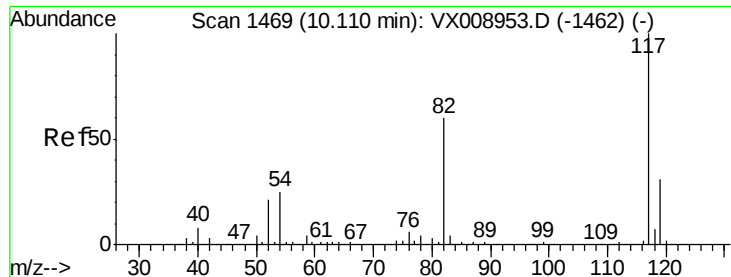
50000

0

11.10 11.20

Time-->

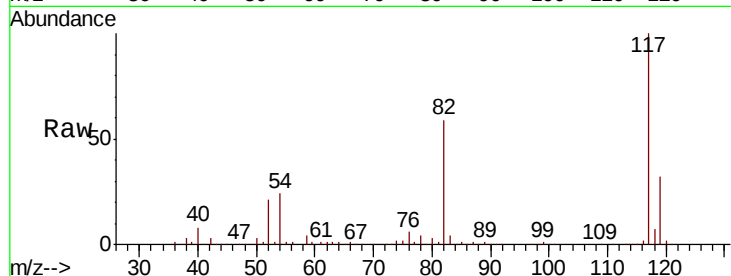




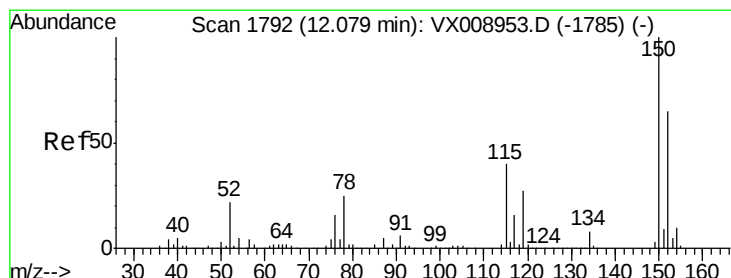
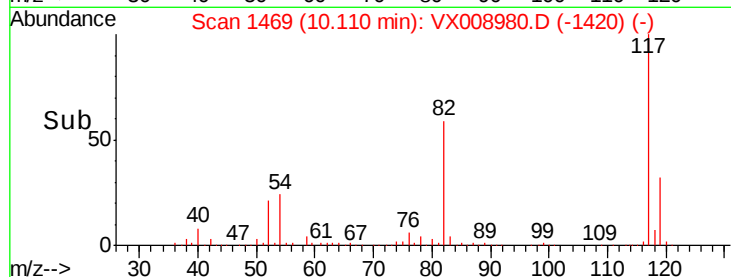
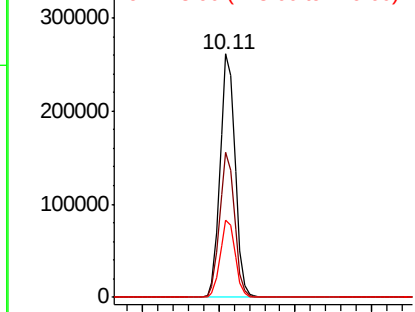
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008980.D
Acq: 16 Apr 2019 12:22

Instrument :
MSVOA_X
ClientSampleId :
SS040MW320-190410

Tot Ion:117 Resp: 354786
Ion Ratio Lower Upper
117 100
82 59.4 48.2 72.4
119 31.7 25.0 37.6

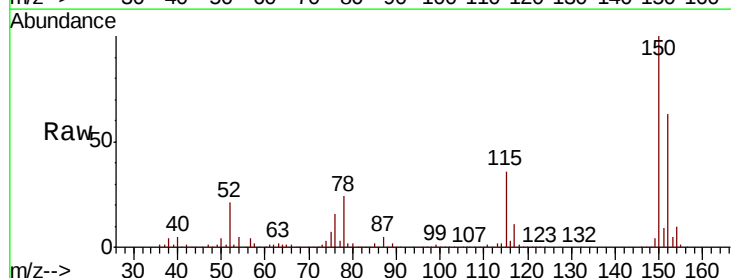


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

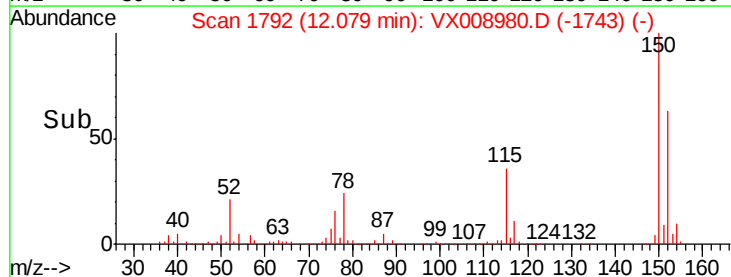
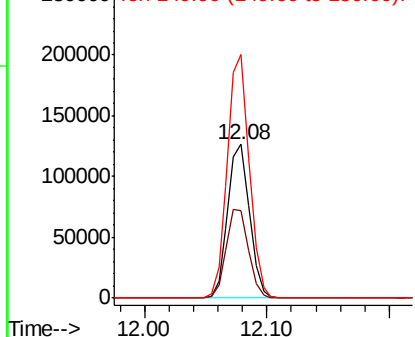


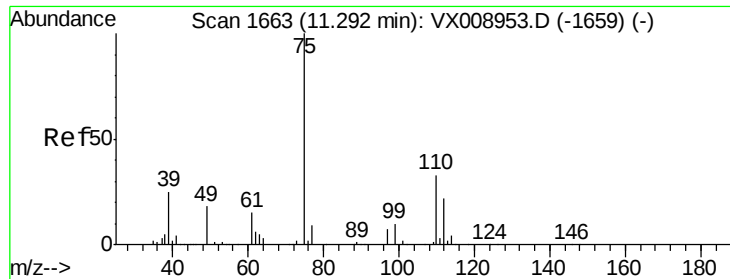
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX008980.D
Acq: 16 Apr 2019 12:22

Tgt Ion:152 Resp: 156732
Ion Ratio Lower Upper
152 100
115 58.9 41.4 124.2
150 158.0 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: 23.186 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008980.D

Acq: 16 Apr 2019 12:22

Instrument :

MSVOA_X

ClientSampleId :

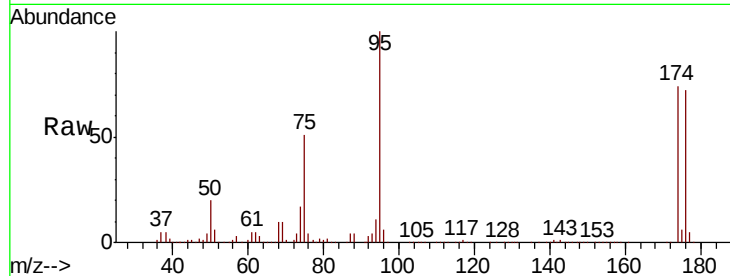
SS040MW320-190410

Tot Ion: 75 Resp: 88734

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

11.13

80000

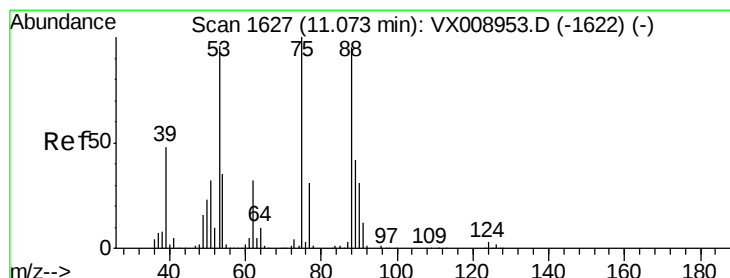
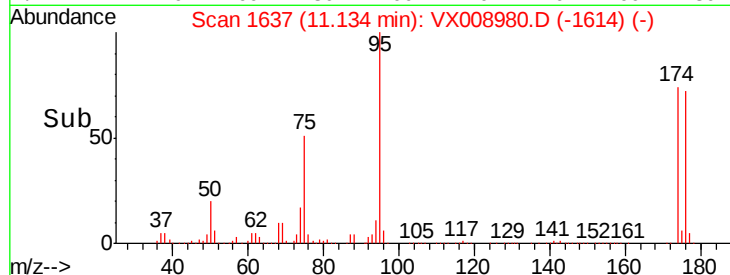
60000

40000

20000

0

Time--> 11.05 11.10 11.15 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 59.524 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008980.D

Acq: 16 Apr 2019 12:22

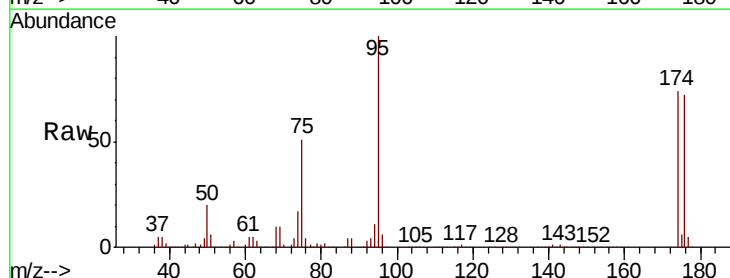
Tgt Ion: 75 Resp: 88734

Ion Ratio Lower Upper

75 100

53 0.0 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

100000

80000

60000

40000

20000

0

Time--> 11.05 11.10 11.15 11.20

