

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101419\
 Data File : VX013042.D
 Acq On : 14 Oct 2019 11:26
 Operator : JC/SP
 Sample : K5266-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 20190883-FIELD-BLANK

Quant Time: Oct 15 01:23:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 11 09:48:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	174960	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	285480	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	235281	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	85565	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	107242	49.04	ug/l	0.00
Spiked Amount			Recovery	=	98.08%	
35) Dibromofluoromethane	5.49	113	85288	52.05	ug/l	0.00
Spiked Amount			Recovery	=	104.10%	
50) Toluene-d8	8.71	98	327485	51.25	ug/l	0.00
Spiked Amount			Recovery	=	102.50%	
62) 4-Bromofluorobenzene	11.14	95	106049	42.71	ug/l	0.00
Spiked Amount			Recovery	=	85.42%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	377	0.453	ug/l	94
6) Chloroethane	1.68	64	46	0.405	ug/l #	43
10) Methyl Iodide	2.52	142	22	5.092	ug/l #	40
11) Tert butyl alcohol	3.02	59	1272	2.194	ug/l #	72
16) Acetone	2.43	43	4343	3.768	ug/l	99
18) Methyl Acetate	2.59	43	14488	5.303	ug/l #	51
20) Methylene Chloride	2.84	84	752	0.355	ug/l #	83
25) 2-Butanone	4.69	43	1531	0.957	ug/l #	80
29) Tetrahydrofuran	5.15	42	837	0.851	ug/l #	80
31) Cyclohexane	5.65	56	3491	1.100	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	13644	5.436	ug/l #	51
38) Carbon Tetrachloride	5.65	117	18397	7.530	ug/l #	18
41) Methacrylonitrile	5.14	41	719	0.466	ug/l #	27
71) Bromoform	11.12	173	138	3.227	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	52575	27.703	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	52575	69.502	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.01 min

Lab File: VX013042.D

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MSVOA_X

ClientSampleId :

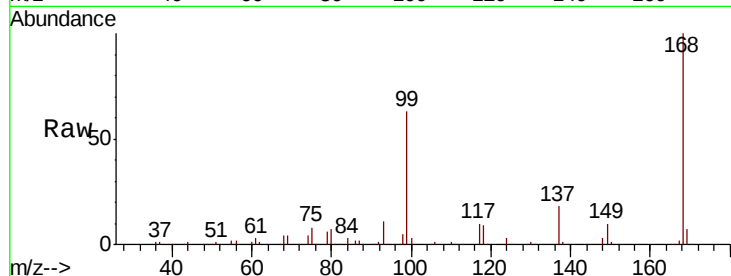
20190883-FIELD-BLANK

Tot Ion:168 Resp: 174960

Ion Ratio Lower Upper

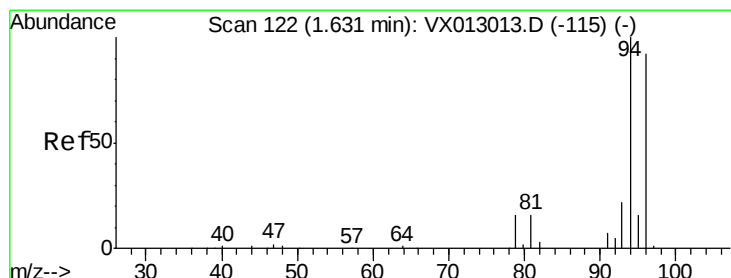
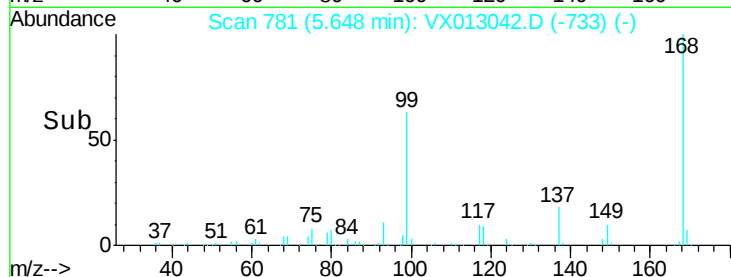
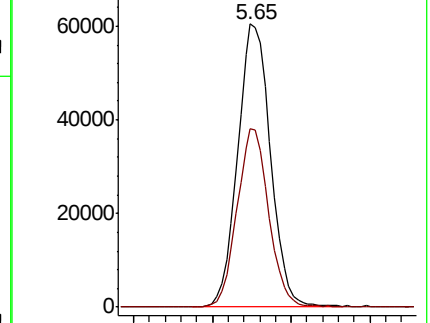
168 100

99 63.0 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.453 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX013042.D

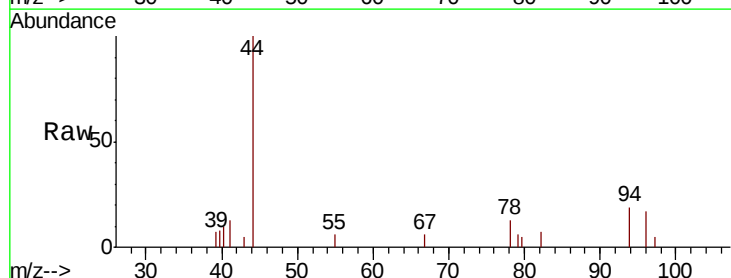
Acq: 14 Oct 2019 11:26

Tgt Ion: 94 Resp: 377

Ion Ratio Lower Upper

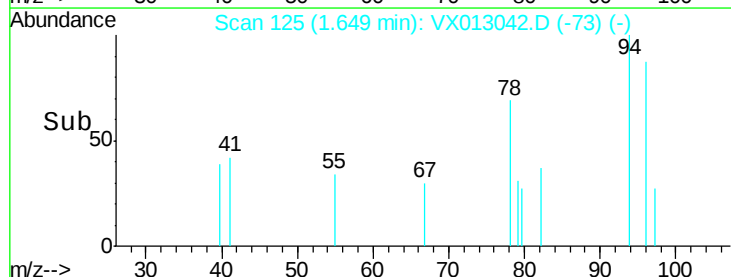
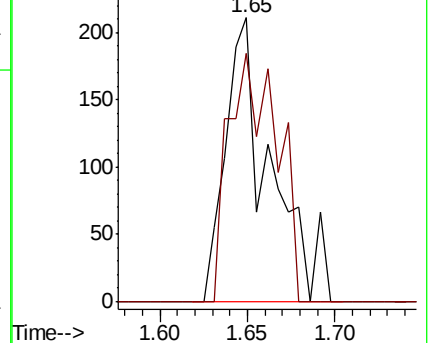
94 100

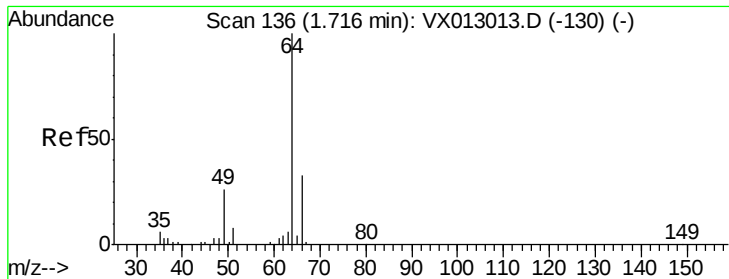
96 87.2 74.7 112.1



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.405 ug/l

RT: 1.68 min Scan# 130

Delta R.T. -0.03 min

Lab File: VX013042.D

Acq: 14 Oct 2019 11:26

Instrument :

MSVOA_X

ClientSampleId :

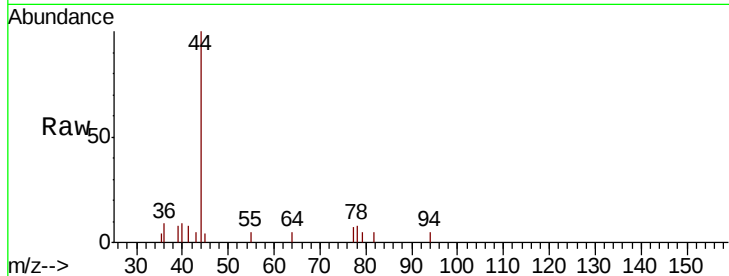
20190883-FIELD-BLANK

Tot Ion: 64 Resp: 46

Ion Ratio Lower Upper

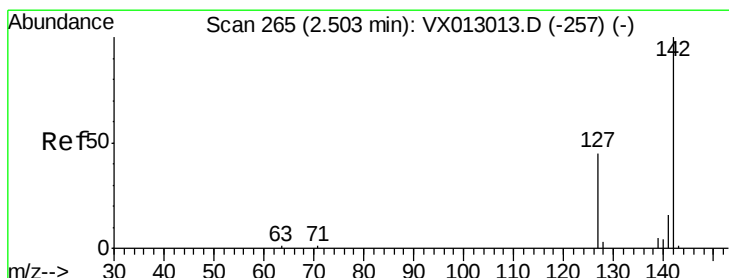
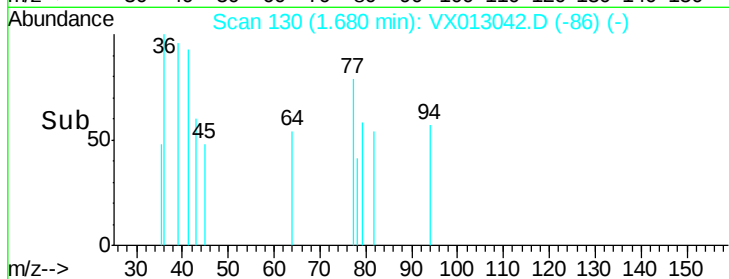
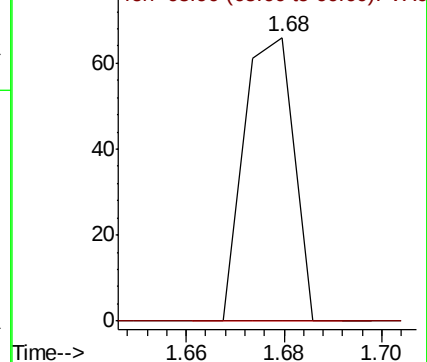
64 100

66 0.0 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 5.092 ug/l

RT: 2.52 min Scan# 268

Delta R.T. 0.02 min

Lab File: VX013042.D

Acq: 14 Oct 2019 11:26

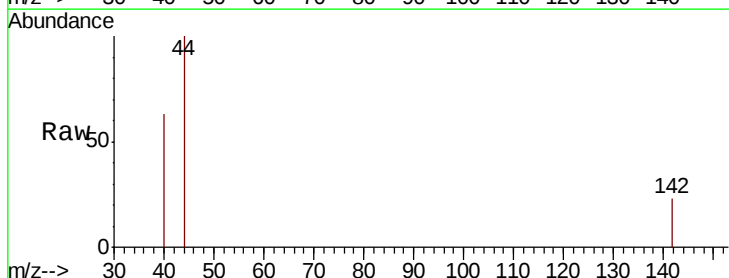
Tgt Ion: 142 Resp: 22

Ion Ratio Lower Upper

142 100

127 0.0 34.9 52.3#

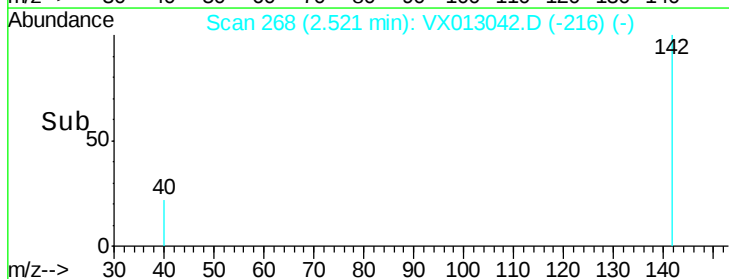
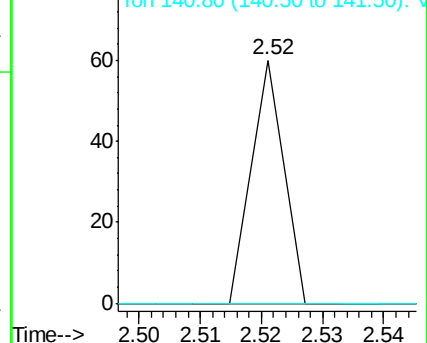
141 0.0 11.6 17.4#

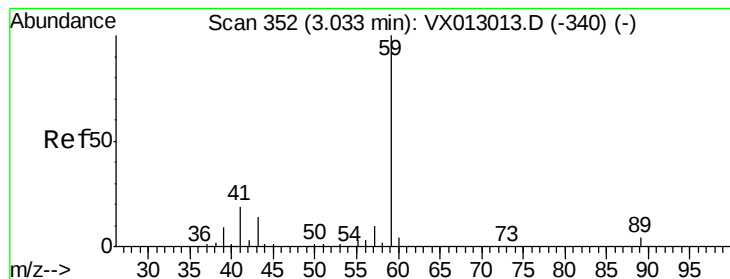


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



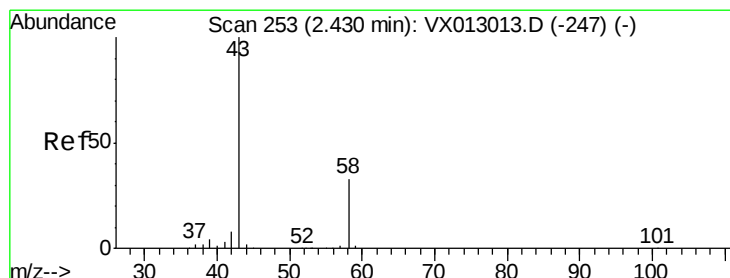
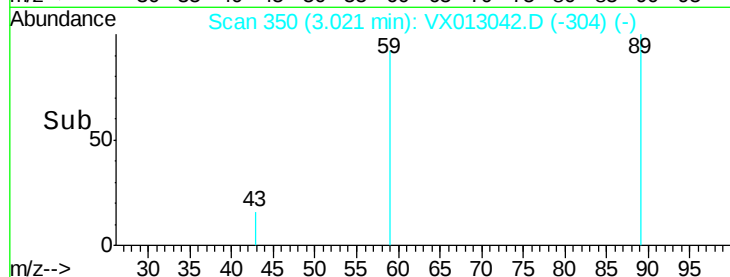
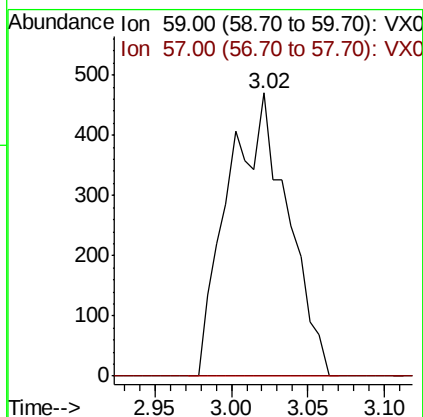
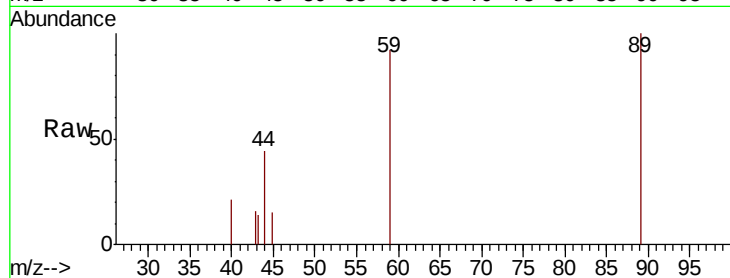


#11

Tert butyl alcohol
 Concen: 2.194 ug/l
 RT: 3.02 min Scan# 350
 Delta R.T. -0.02 min
 Lab File: VX013042.D
 Acq: 14 Oct 2019 11:26

Instrument :
 MSVOA_X
 ClientSampleId :
 20190883-FIELD-BLANK

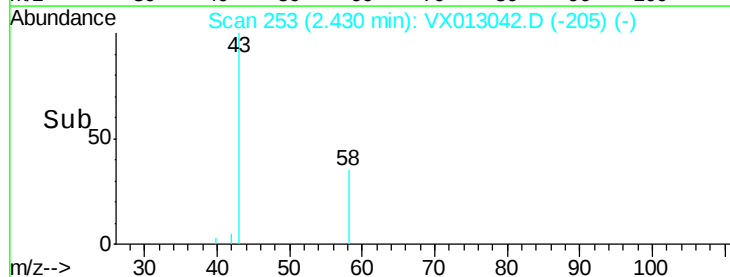
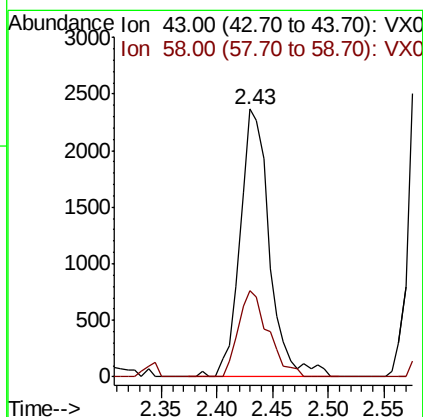
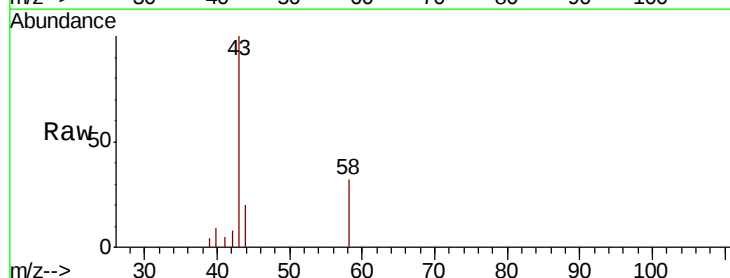
Tot Ion: 59 Resp: 1272
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

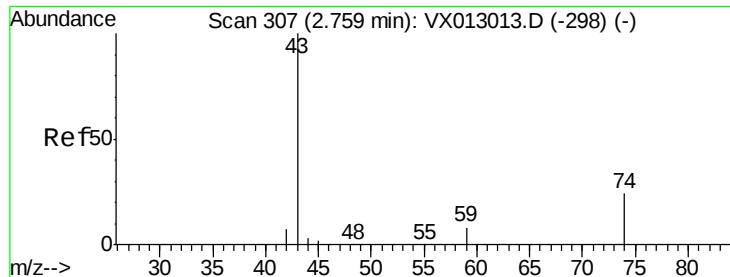


#16

Acetone
 Concen: 3.768 ug/l
 RT: 2.43 min Scan# 253
 Delta R.T. -0.01 min
 Lab File: VX013042.D
 Acq: 14 Oct 2019 11:26

Tgt Ion: 43 Resp: 4343
 Ion Ratio Lower Upper
 43 100
 58 32.3 25.4 38.2

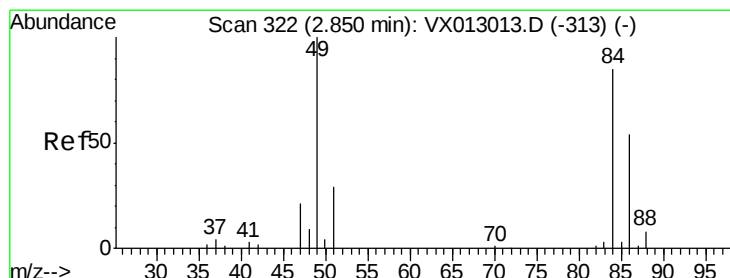
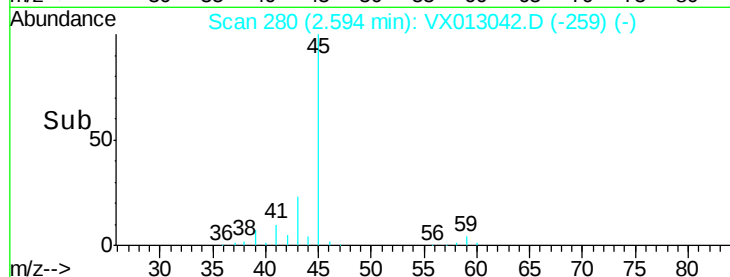
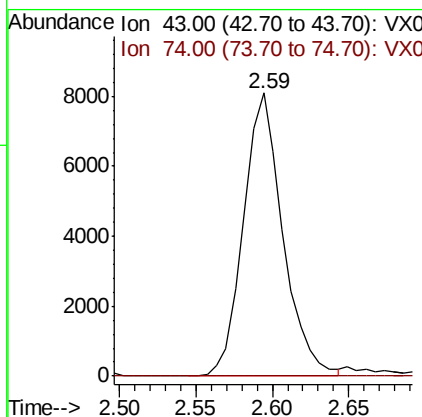
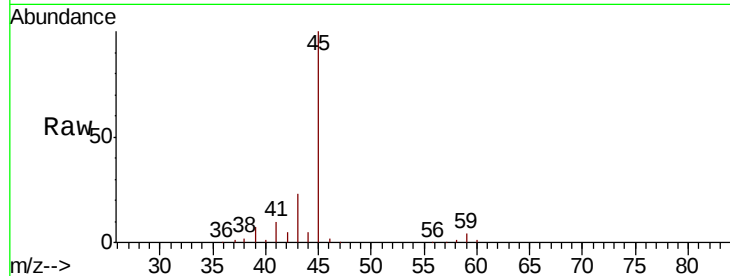




#18
Methvl Acetate
Concen: 5.303 ug/l
RT: 2.59 min Scan# 280
Delta R.T. -0.17 min
Lab File: VX013042.D
Acq: 14 Oct 2019 11:26

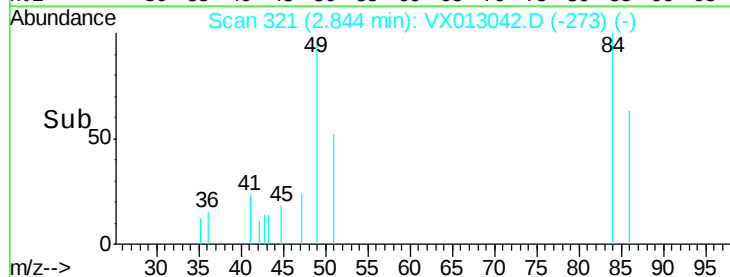
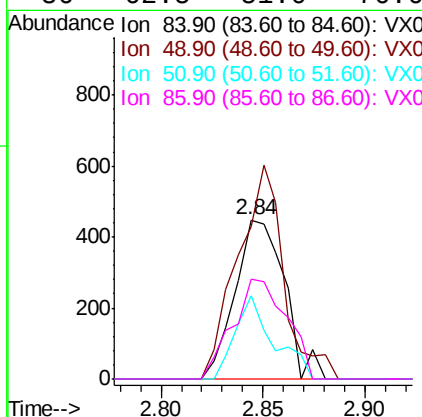
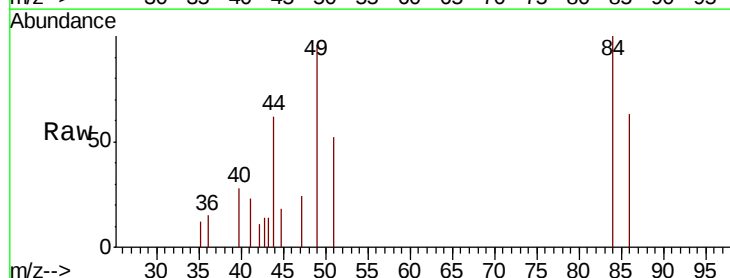
Instrument :
MSVOA_X
ClientSampleId :
20190883-FIELD-BLANK

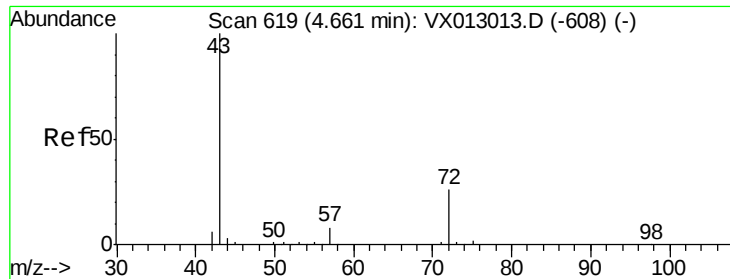
Tot Ion: 43 Resp: 14488
Ion Ratio Lower Upper
43 100
74 0.0 19.2 28.8#



#20
Methylene Chloride
Concen: 0.355 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.01 min
Lab File: VX013042.D
Acq: 14 Oct 2019 11:26

Tgt Ion: 84 Resp: 752
Ion Ratio Lower Upper
84 100
49 95.5 96.6 144.8#
51 52.0 30.7 46.1#
86 62.5 51.0 76.6





#25

2-Butanone

Concen: 0.957 ug/l

RT: 4.69 min Scan# 623

Delta R.T. 0.02 min

Lab File: VX013042.D

Acq: 14 Oct 2019 11:26

Instrument :

MSVOA_X

ClientSampleId :

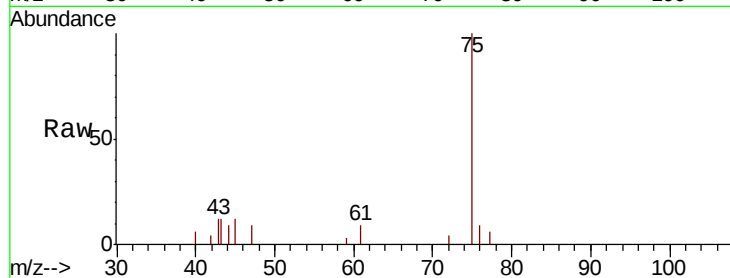
20190883-FIELD-BLANK

Tot Ion: 43 Resp: 1531

Ion Ratio Lower Upper

43 100

72 16.3 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

600

500

400

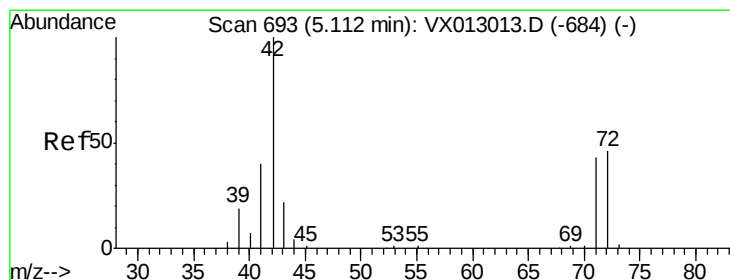
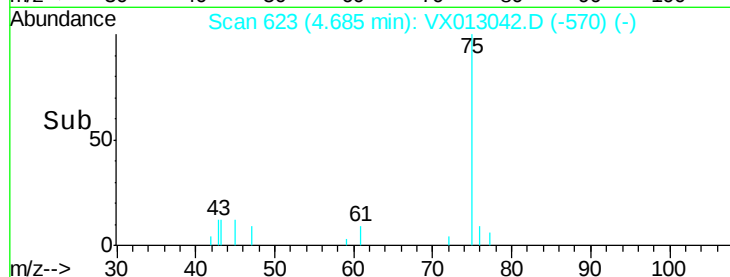
300

200

100

0

Time-->



#29

Tetrahydrofuran

Concen: 0.851 ug/l

RT: 5.15 min Scan# 699

Delta R.T. 0.03 min

Lab File: VX013042.D

Acq: 14 Oct 2019 11:26

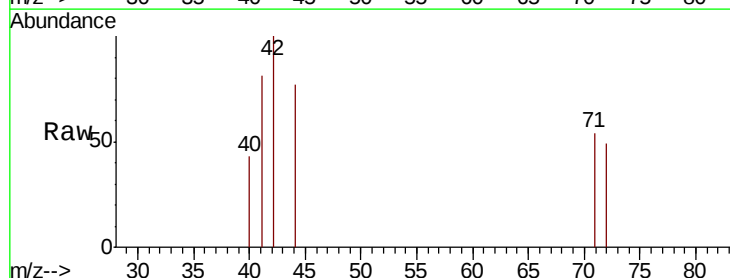
Tgt Ion: 42 Resp: 837

Ion Ratio Lower Upper

42 100

72 27.8 36.9 55.3#

71 49.8 33.5 50.3



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

400

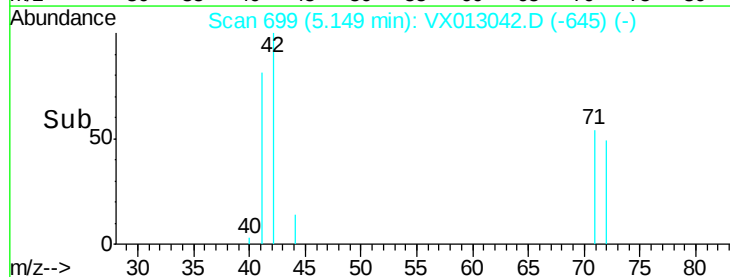
300

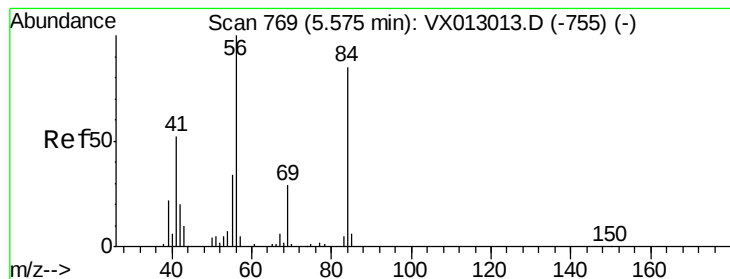
200

100

0

Time-->





#31

Cyclohexane

Concen: 1.100 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.08 min

Lab File: VX013042.D

Acq: 14 Oct 2019 11:26

Instrument :

MSVOA_X

ClientSampleId :

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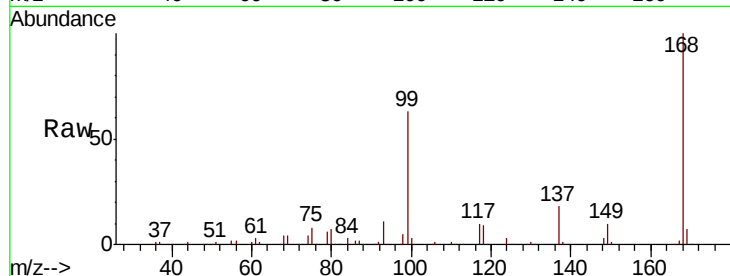
Tot Ion: 56 Resp: 3491

Ion Ratio Lower Upper

56 100

69 182.8 25.2 37.8#

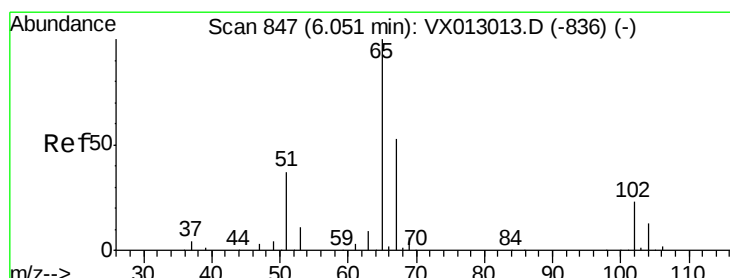
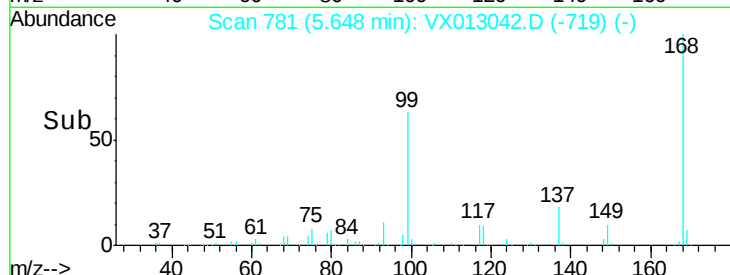
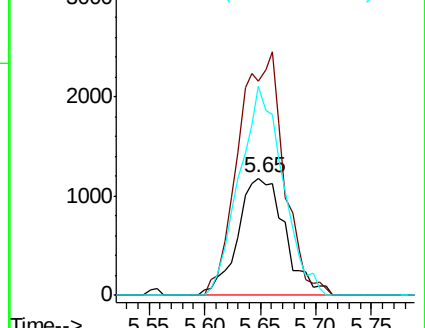
84 178.4 71.3 106.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 49.041 ug/l

RT: 6.06 min Scan# 848

Delta R.T. -0.00 min

Lab File: VX013042.D

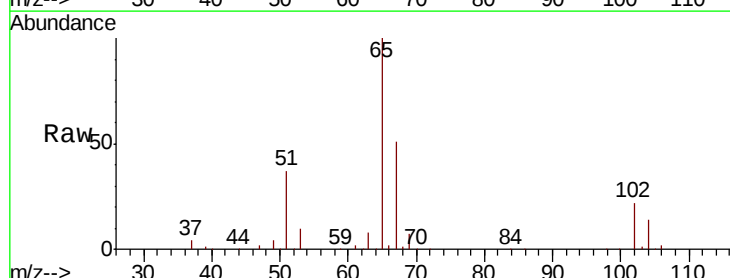
Acq: 14 Oct 2019 11:26

Tgt Ion: 65 Resp: 107242

Ion Ratio Lower Upper

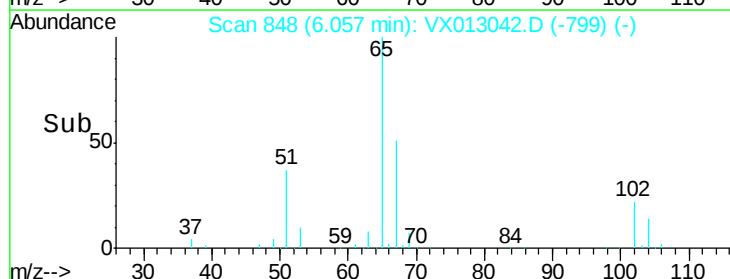
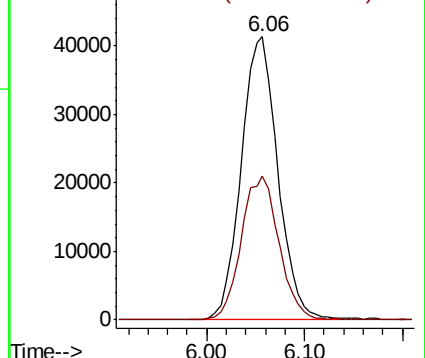
65 100

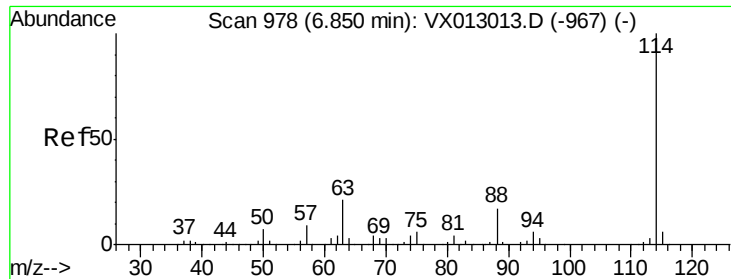
67 52.5 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

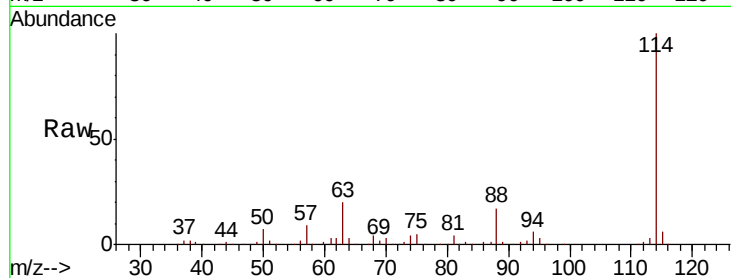




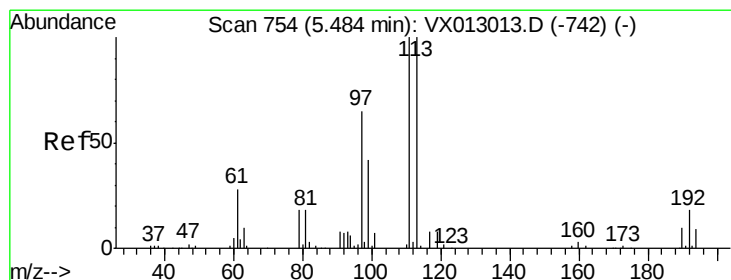
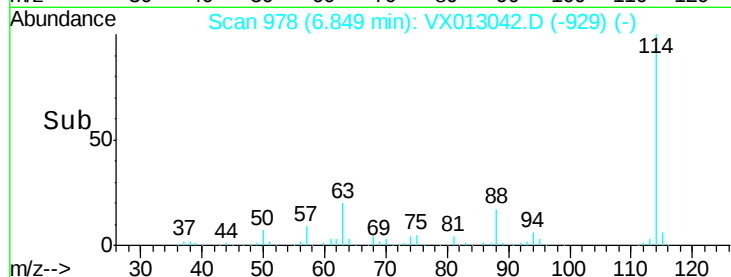
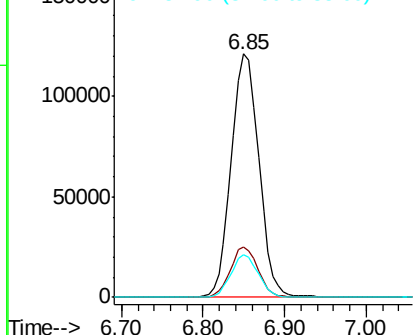
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 978
Delta R.T. -0.00 min
Lab File: VX013042.D
Acq: 14 Oct 2019 11:26

Instrument :
MSVOA_X
ClientSampleId :
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Tot Ion:114 Resp: 285480
Ion Ratio Lower Upper
114 100
63 20.4 0.0 40.8
88 17.4 0.0 33.8

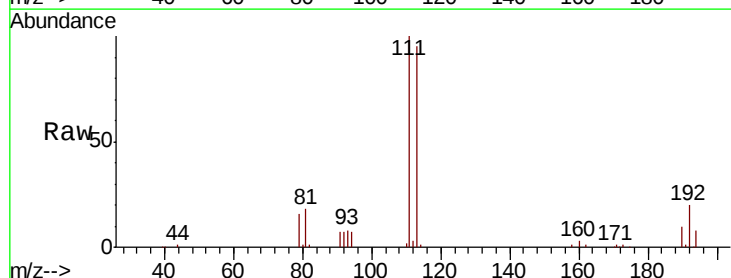


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

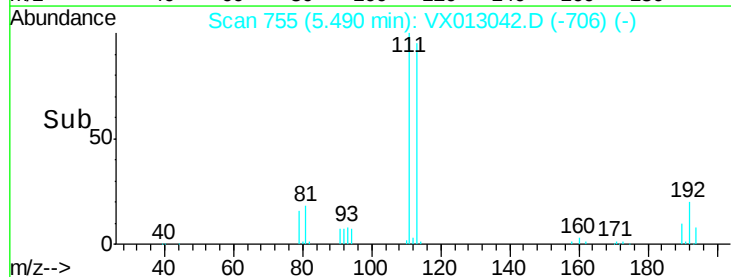
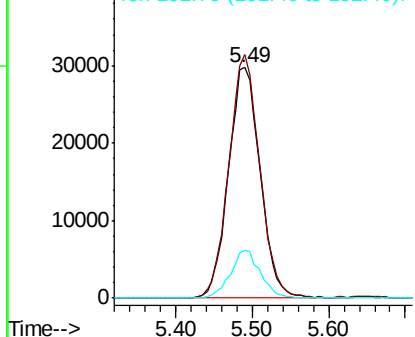


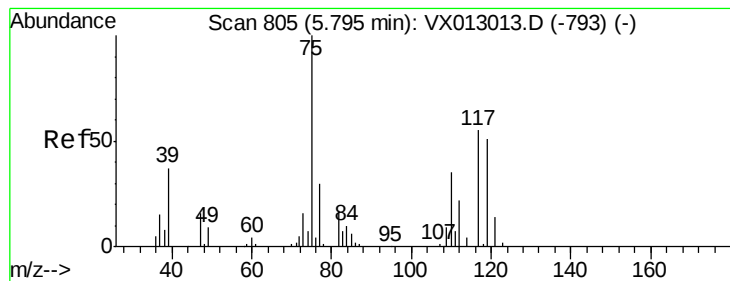
#35
Dibromofluoromethane
Concen: 52.052 ug/l
RT: 5.49 min Scan# 755
Delta R.T. -0.00 min
Lab File: VX013042.D
Acq: 14 Oct 2019 11:26

Tgt Ion:113 Resp: 85288
Ion Ratio Lower Upper
113 100
111 103.2 83.2 124.8
192 19.6 15.4 23.2



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.436 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013042.D

Acq: 14 Oct 2019 11:26

Instrument :

MSVOA_X

ClientSampleId :

20190883-FIELD-BLANK

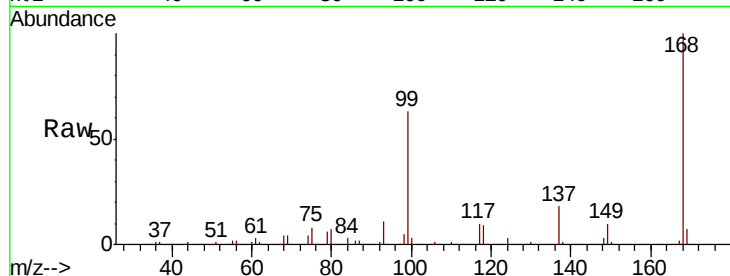
Tot Ion: 75 Resp: 13644

Ion Ratio Lower Upper

75 100

110 10.7 17.6 52.9#

77 0.0 24.4 36.6#

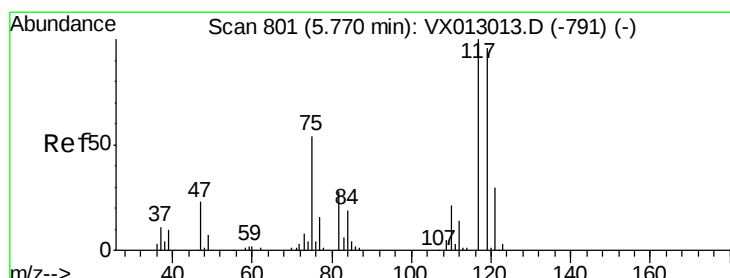
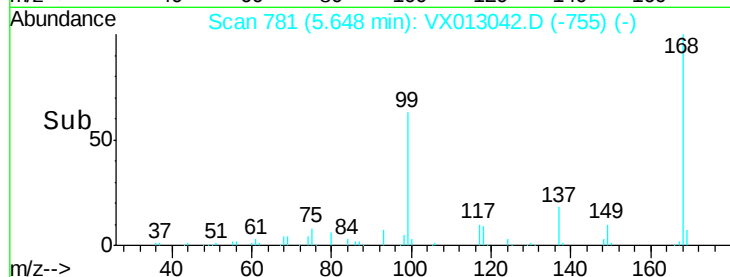


Abundance Ion 74.90 (74.60 to 75.60): VX013013.D (-793) (-)

Ion 109.90 (109.60 to 110.60): VX013013.D (-793) (-)

Ion 76.90 (76.60 to 77.60): VX013013.D (-793) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 7.530 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX013042.D

Acq: 14 Oct 2019 11:26

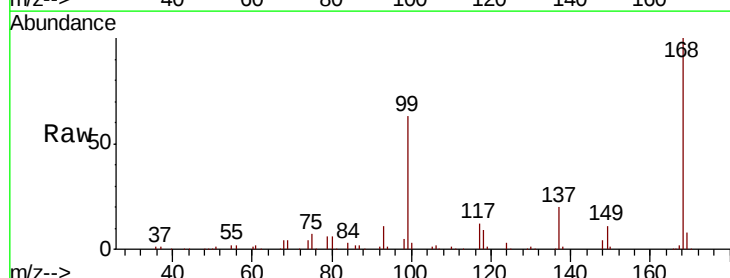
Tgt Ion: 117 Resp: 18397

Ion Ratio Lower Upper

117 100

119 5.5 74.5 111.7#

121 0.0 24.2 36.4#

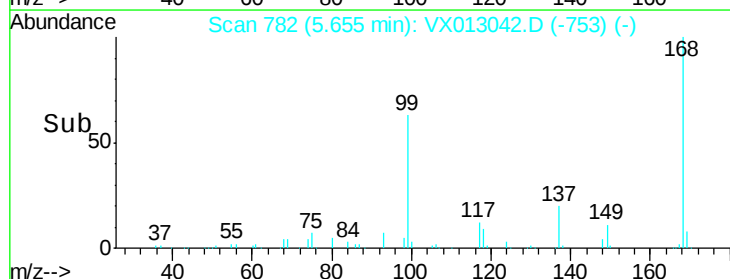


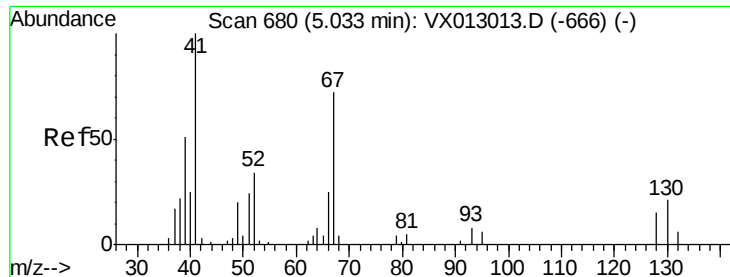
Abundance Ion 116.80 (116.50 to 117.50): VX013013.D (-791) (-)

Ion 118.80 (118.50 to 119.50): VX013013.D (-791) (-)

Ion 120.80 (120.50 to 121.50): VX013013.D (-791) (-)

Time-->





#41

Methacrylonitrile

Concen: 0.466 ug/l

RT: 5.14 min Scan# 698

Delta R.T. 0.11 min

Lab File: VX013042.D

Acq: 14 Oct 2019 11:26

Instrument :

MSVOA_X

ClientSampleId :

20190883-FIELD-BLANK

Tot Ion: 41 Resp: 719

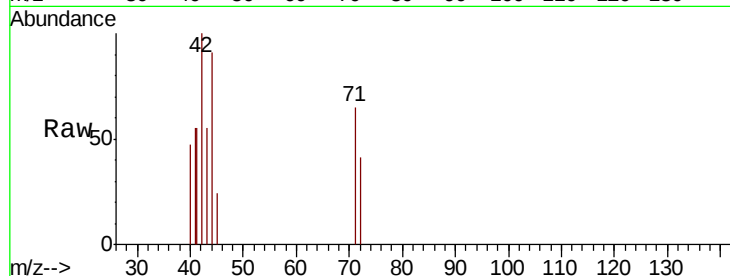
Ion Ratio Lower Upper

41 100

39 8.5 44.0 66.0#

67 0.0 58.5 87.7#

52 0.0 23.8 35.8#

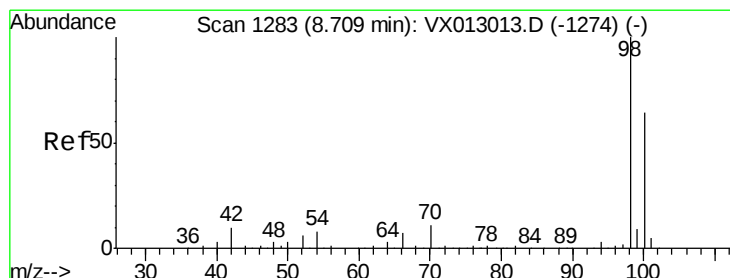
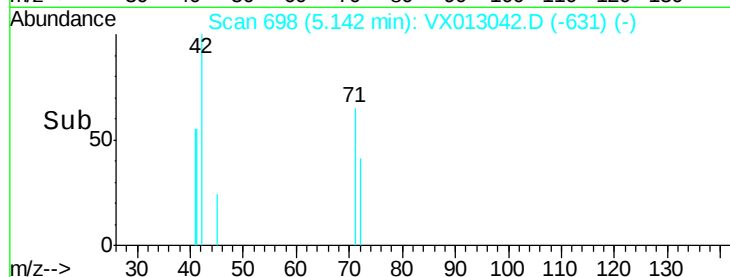
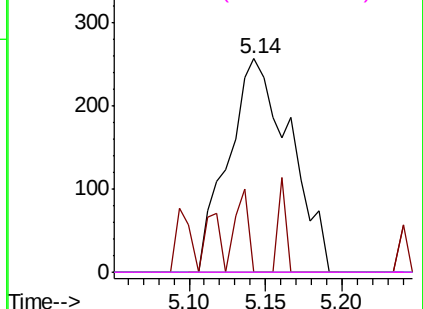


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#50

Toluene-d8

Concen: 51.245 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013042.D

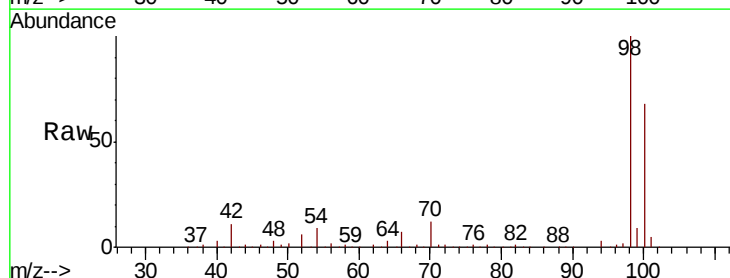
Acq: 14 Oct 2019 11:26

Tgt Ion: 98 Resp: 327485

Ion Ratio Lower Upper

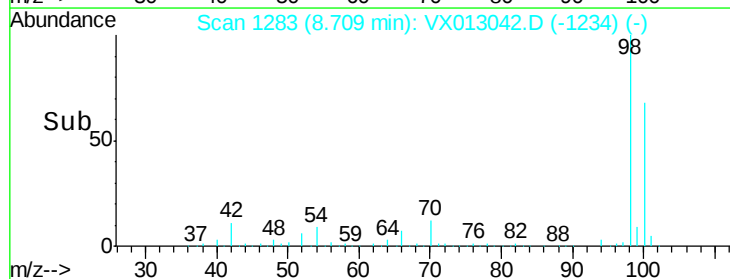
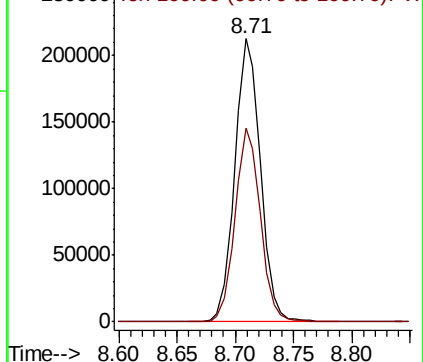
98 100

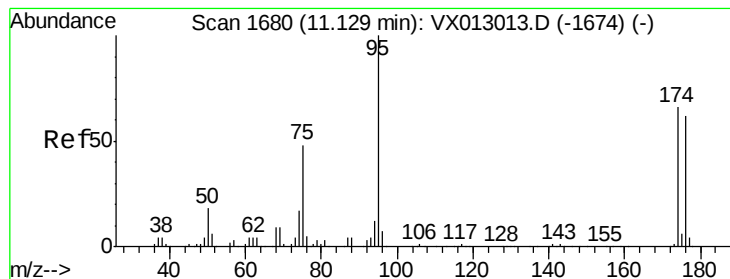
100 67.6 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 42.708 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013042.D

Acq: 14 Oct 2019 11:26

Instrument :

MSVOA_X

ClientSampleId :

20190883-FIELD-BLANK

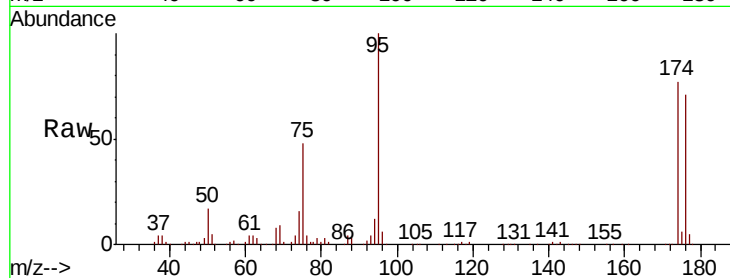
Tot Ion: 95 Resp: 106049

Ion Ratio Lower Upper

95 100

174 72.7 0.0 143.4

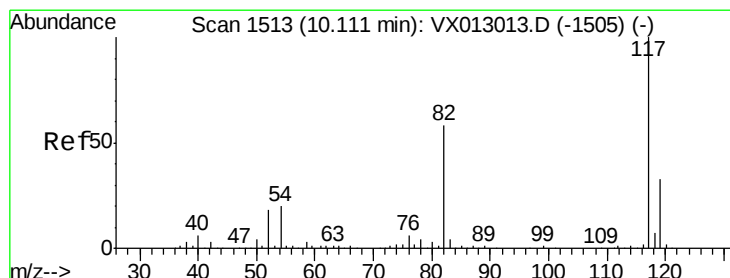
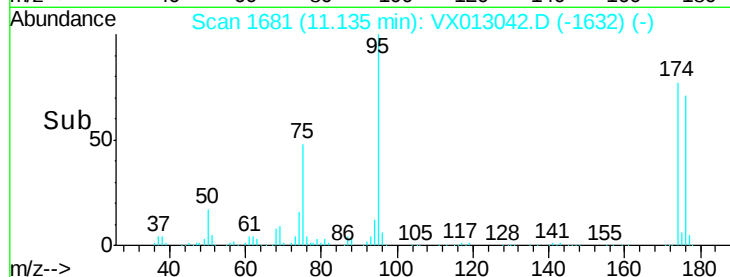
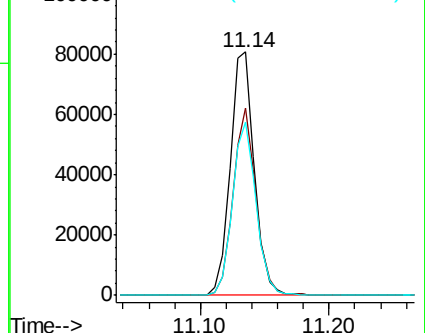
176 69.6 0.0 136.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013042.D

Acq: 14 Oct 2019 11:26

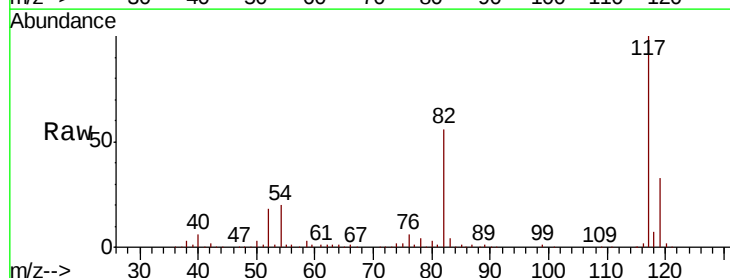
Tgt Ion: 117 Resp: 235281

Ion Ratio Lower Upper

117 100

82 56.4 44.1 66.1

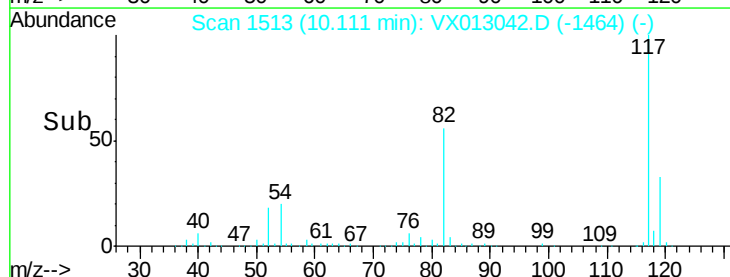
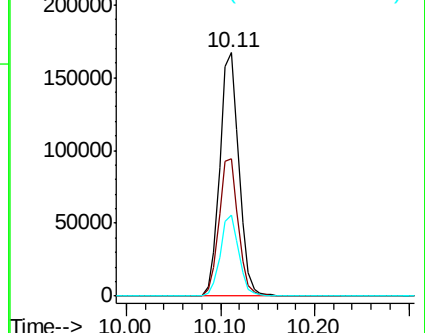
119 33.0 25.8 38.8

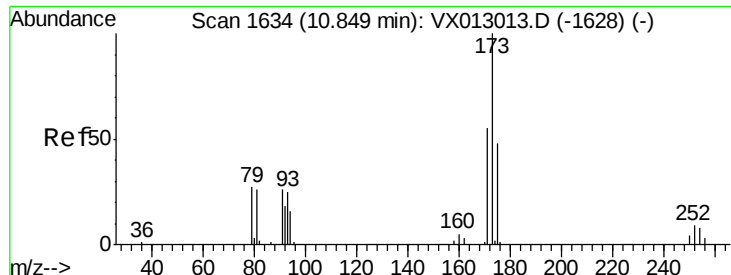


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#71

Bromoform

Concen: 3.227 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.27 min

Lab File: VX013042.D

Acq: 14 Oct 2019 11:26

Instrument :

MSVOA_X

ClientSampleId :

20190883-FIELD-BLANK

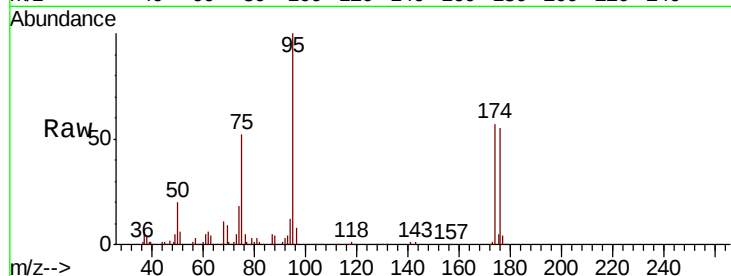
Tot Ion:173 Resp: 138

Ion Ratio Lower Upper

173 100

175 0.0 24.1 72.3#

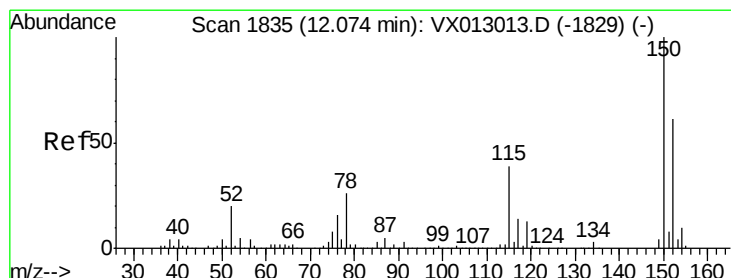
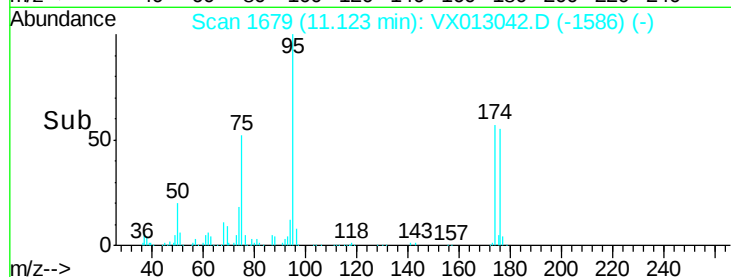
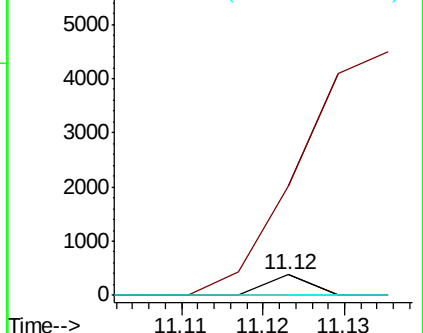
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX013042.D

Acq: 14 Oct 2019 11:26

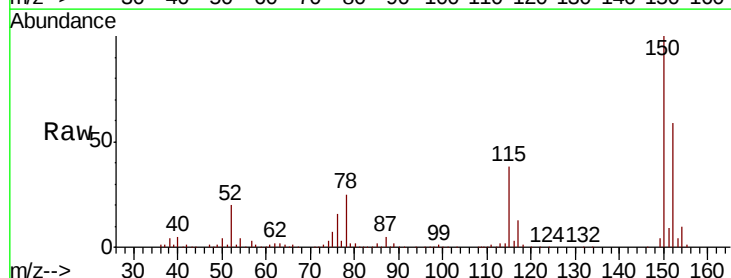
Tgt Ion:152 Resp: 85565

Ion Ratio Lower Upper

152 100

115 62.1 44.5 133.5

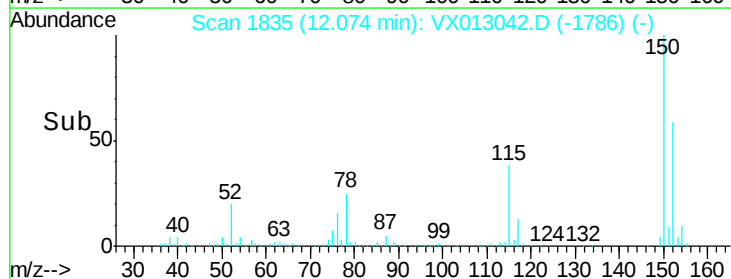
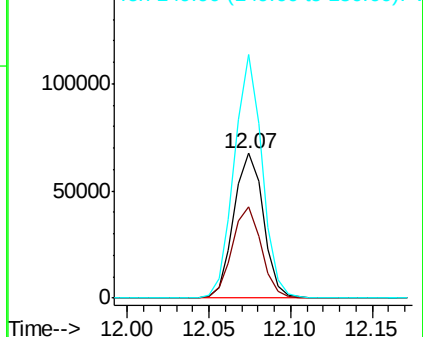
150 158.7 0.0 353.4

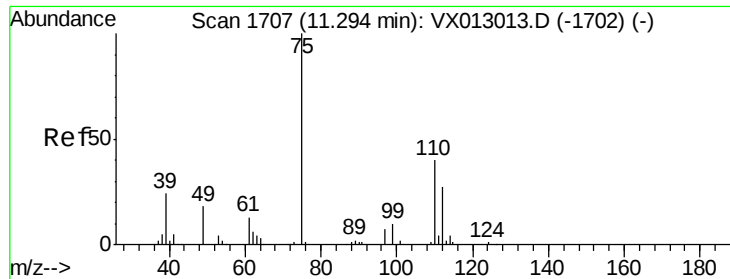


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 27.703 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013042.D

Acq: 14 Oct 2019 11:26

Instrument :

MSVOA_X

ClientSampleId :

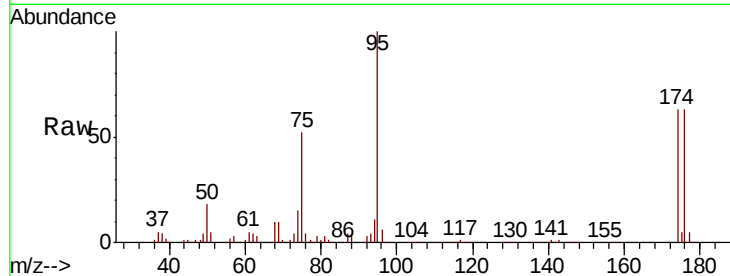
20190883-FIELD-BLANK

Tot Ion: 75 Resp: 52575

Ion Ratio Lower Upper

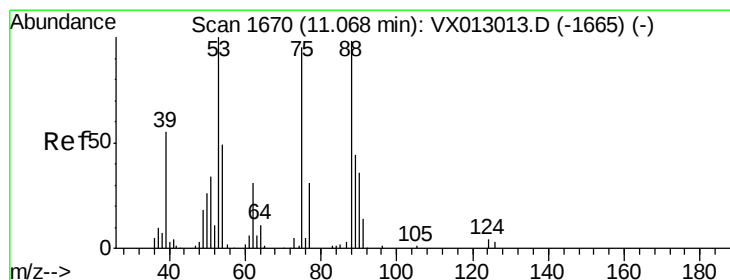
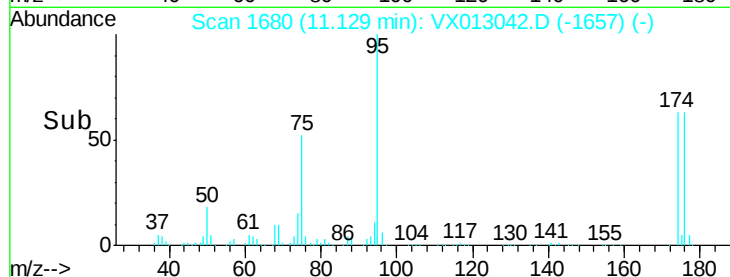
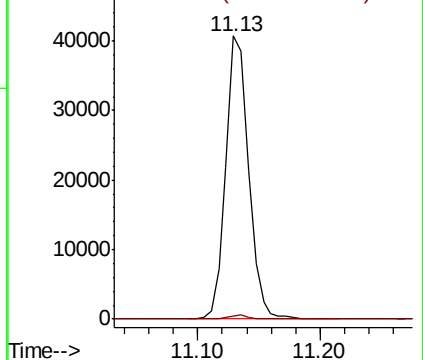
75 100

77 1.2 22.9 68.8#



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: 69.502 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013042.D

Acq: 14 Oct 2019 11:26

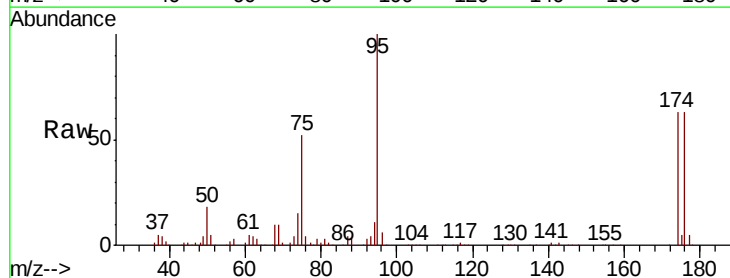
Tgt Ion: 75 Resp: 52575

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 37.4 56.2#



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

