

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX082019\
 Data File : VX011706.D
 Acq On : 21 Aug 2019 00:25
 Operator : JC/SP
 Sample : K4387-30
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 T4-A1-(0)

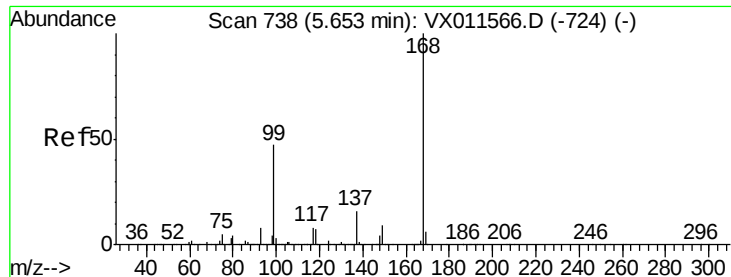
Quant Time: Aug 21 00:56:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081519W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 16 04:15:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	366588	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	529810	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	498712	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	238165	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	191499	56.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.66%	
35) Dibromofluoromethane	5.49	113	160464	46.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.62%	
50) Toluene-d8	8.71	98	607280	56.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.48%	
62) 4-Bromofluorobenzene	11.13	95	218816	48.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.02%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	573	0.378	ug/l #	45
6) Chloroethane	1.70	64	595	0.372	ug/l	98
8) Diethyl Ether	2.20	74	401	0.250	ug/l	97
11) Tert butyl alcohol	3.01	59	4704	5.640	ug/l	96
13) Acrolein	2.29	56	383	13.604	ug/l #	78
16) Acetone	2.44	43	8394	4.911	ug/l	97
18) Methyl Acetate	2.76	43	2858	0.539	ug/l #	63
20) Methylene Chloride	2.85	84	3936	1.097	ug/l	86
36) 1,1-Dichloropropene	5.65	75	22235	4.909	ug/l #	52
38) Carbon Tetrachloride	5.65	117	33421	6.697	ug/l #	16
43) Isopropyl Acetate	6.44	43	58503	7.195	ug/l	96
48) Methyl methacrylate	7.68	41	3662	0.909	ug/l #	17
49) 1,4-Dioxane	7.73	88	248	2.316	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	57408	10.787	ug/l #	45
54) cis-1,3-Dichloropropene	8.61	75	26447	4.971	ug/l #	66
59) 2-Hexanone	9.54	43	67271	16.391	ug/l #	53
71) Bromoform	10.84	173	77	3.310	ug/l #	28
74) N-amyl acetate	10.82	43	2636	0.401	ug/l #	46
76) 1,2,3-Trichloropropane	11.13	75	104361	23.108	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	104361	61.469	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.00 min

Lab File: VX011706.D

Acq: 21 Aug 2019 00:25

Instrument :

MSVOA_X

ClientSampled :

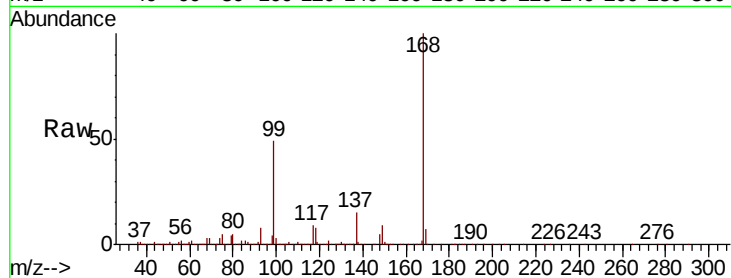
T4-A1-(0)

Tgt Ion:168 Resp: 366588

Ion Ratio Lower Upper

168 100

99 48.9 37.3 55.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

150000

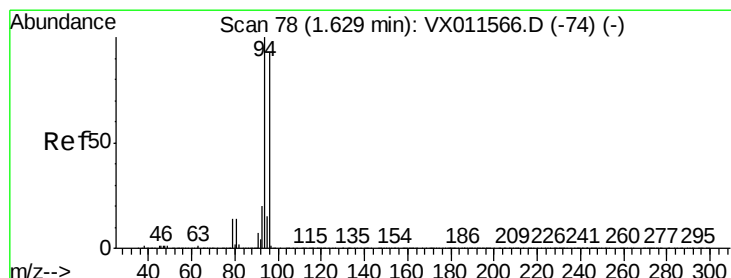
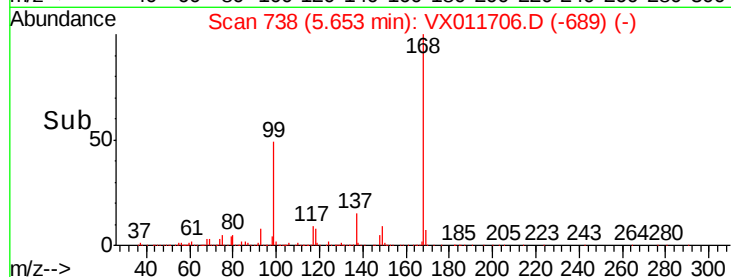
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.378 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.01 min

Lab File: VX011706.D

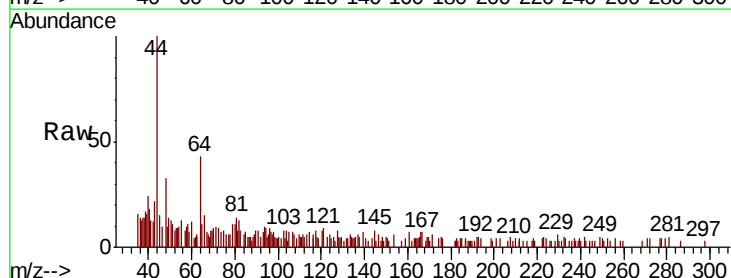
Acq: 21 Aug 2019 00:25

Tgt Ion: 94 Resp: 573

Ion Ratio Lower Upper

94 100

96 40.4 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

400

300

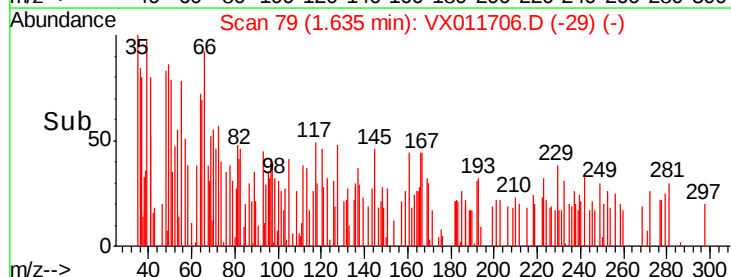
200

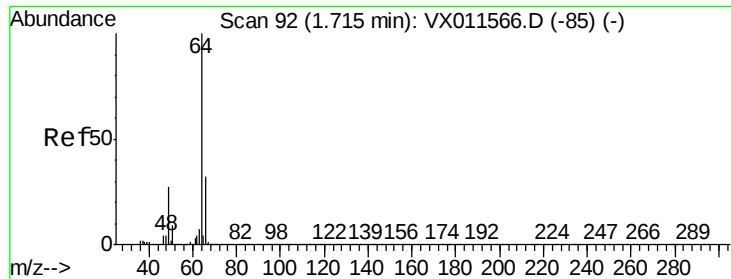
100

0

Time-->

1.60 1.62 1.64 1.66





#6

Chloroethane

Concen: 0.372 ug/l

RT: 1.70 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX011706.D

Acq: 21 Aug 2019 00:25

Instrument :

MSVOA_X

ClientSampleId :

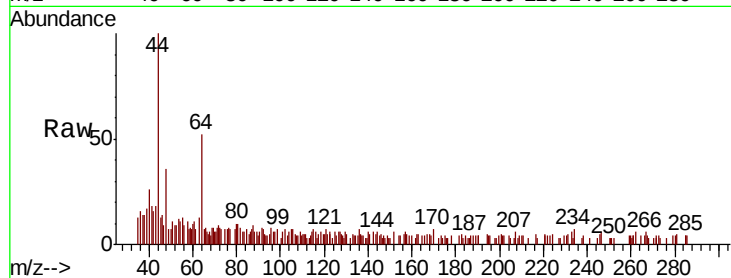
T4-A1-(0)

Tgt Ion: 64 Resp: 595

Ion Ratio Lower Upper

64 100

66 30.4 25.3 37.9

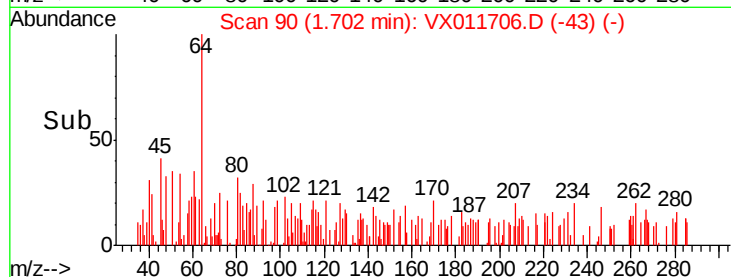


Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.70

Time-->

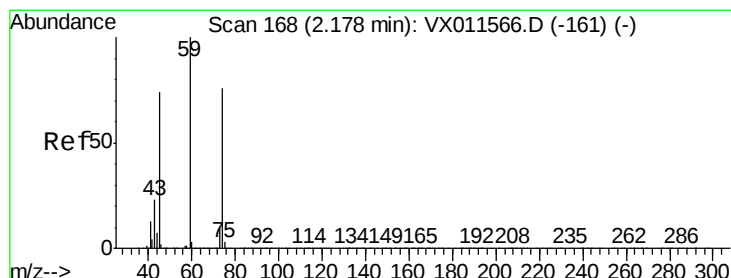


Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.70

Time-->



#8

Diethyl Ether

Concen: 0.250 ug/l

RT: 2.20 min Scan# 172

Delta R.T. 0.02 min

Lab File: VX011706.D

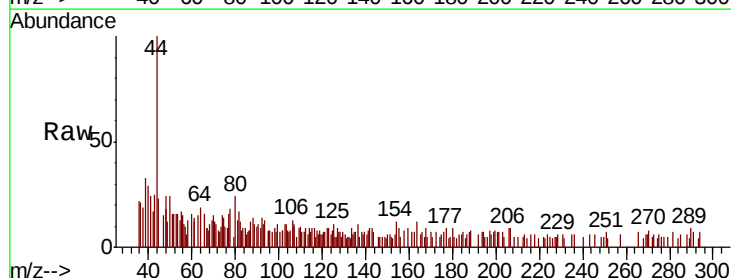
Acq: 21 Aug 2019 00:25

Tgt Ion: 74 Resp: 401

Ion Ratio Lower Upper

74 100

45 93.3 48.2 144.6

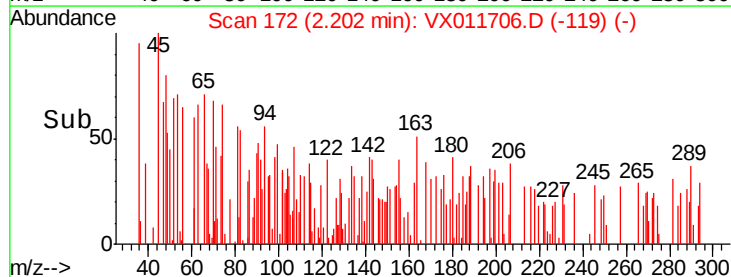


Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.20

Time-->

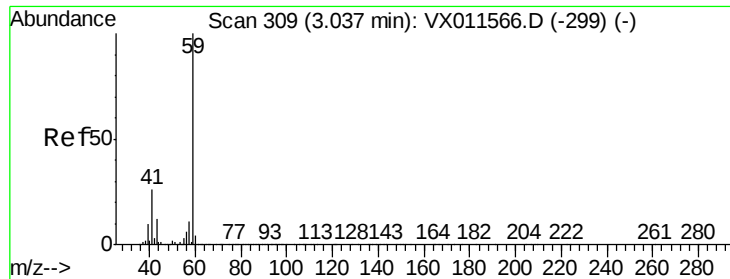


Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.20

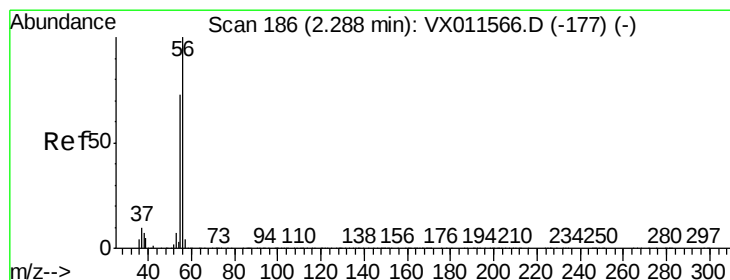
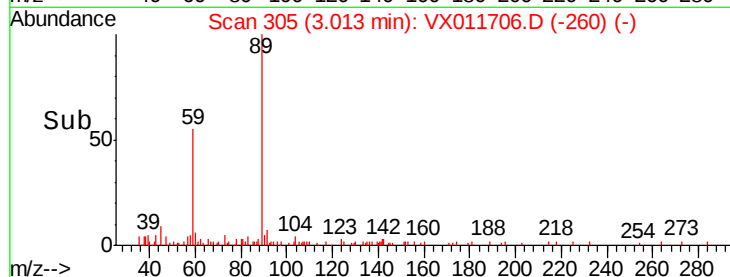
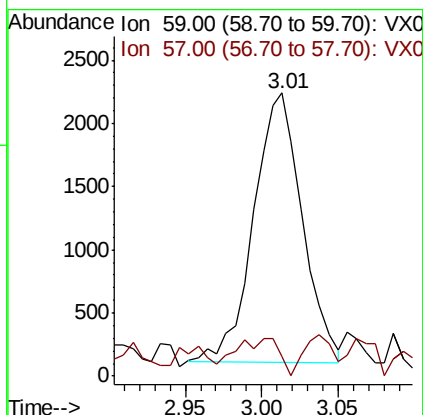
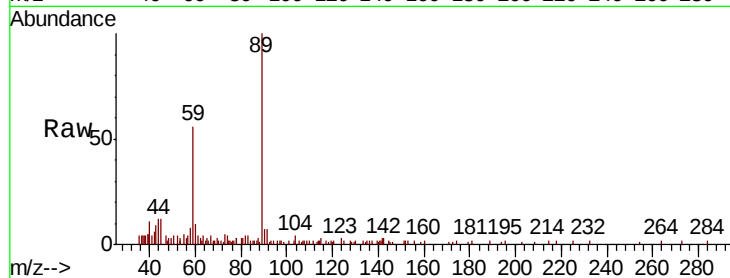
Time-->



#11
Tert butyl alcohol
Concen: 5.640 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.02 min
Lab File: VX011706.D
Acq: 21 Aug 2019 00:25

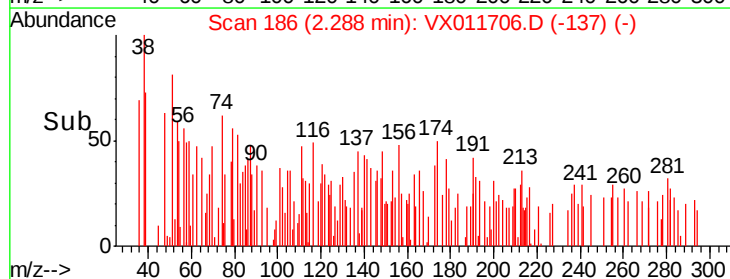
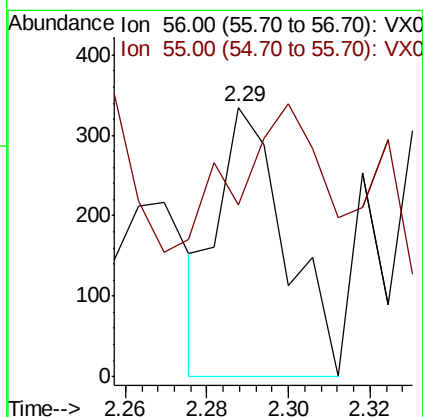
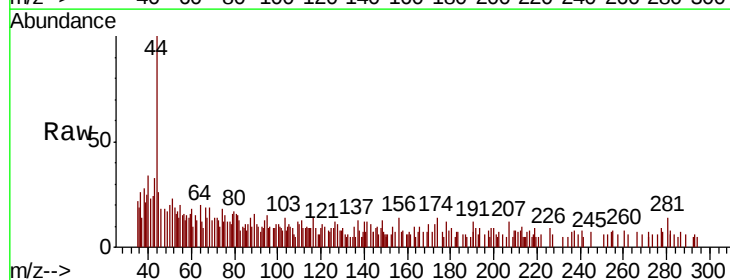
Instrument :
MSVOA_X
ClientSampleId :
T4-A1-(0)

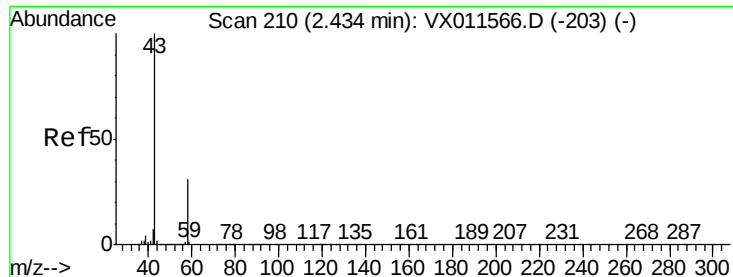
Tgt Ion: 59 Resp: 4704
Ion Ratio Lower Upper
59 100
57 12.6 8.7 13.1



#13
Acrolein
Concen: 13.604 ug/l
RT: 2.29 min Scan# 186
Delta R.T. 0.00 min
Lab File: VX011706.D
Acq: 21 Aug 2019 00:25

Tgt Ion: 56 Resp: 383
Ion Ratio Lower Upper
56 100
55 87.2 55.5 83.3#

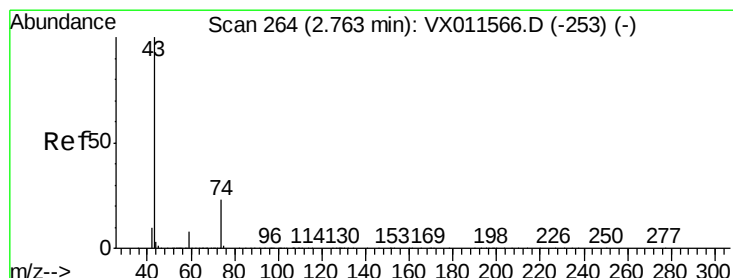
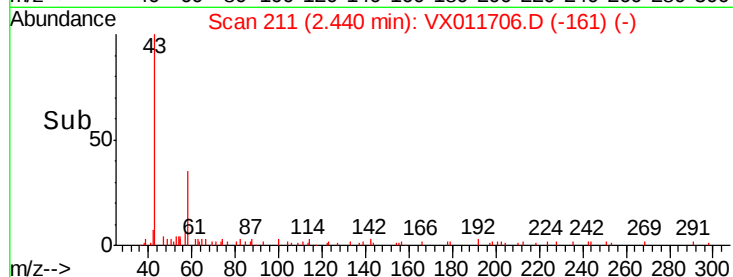
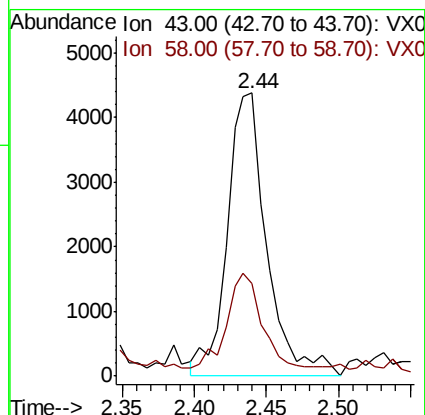
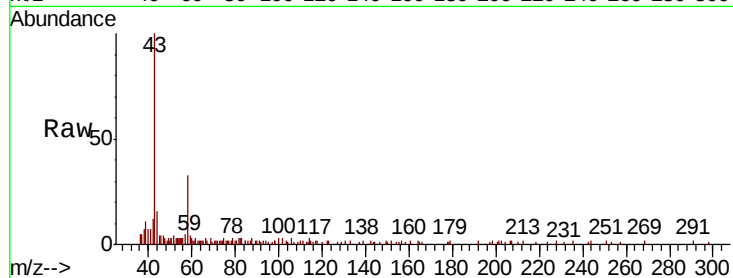




#16
Acetone
Concen: 4.911 ug/l
RT: 2.44 min Scan# 211
Delta R.T. 0.01 min
Lab File: VX011706.D
Acq: 21 Aug 2019 00:25

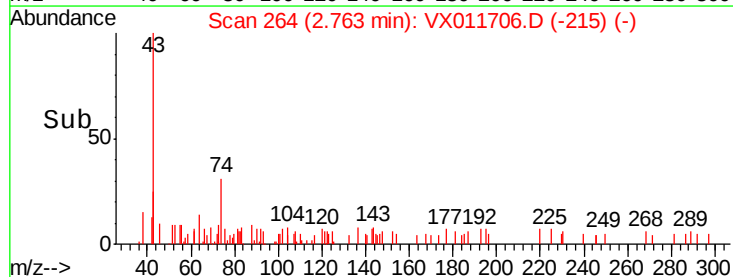
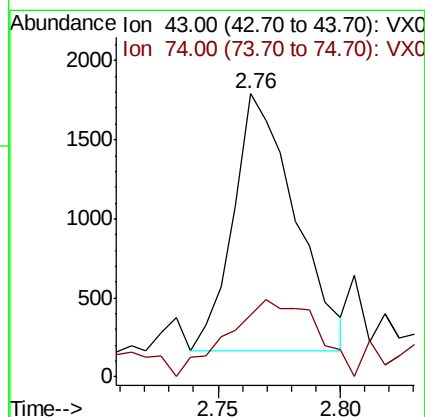
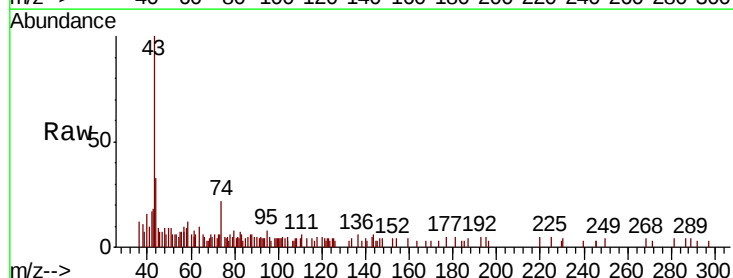
Instrument :
MSVOA_X
ClientSampleId :
T4-A1-(0)

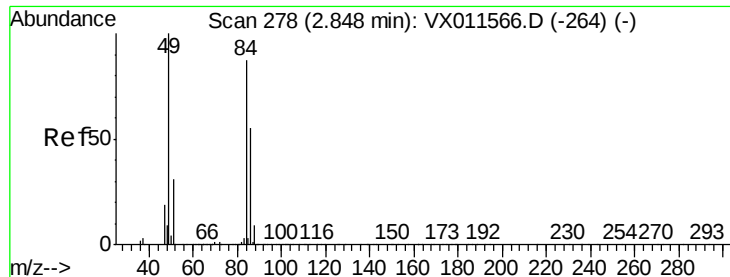
Tgt Ion: 43 Resp: 8394
Ion Ratio Lower Upper
43 100
58 29.6 25.2 37.8



#18
Methyl Acetate
Concen: 0.539 ug/l
RT: 2.76 min Scan# 264
Delta R.T. 0.00 min
Lab File: VX011706.D
Acq: 21 Aug 2019 00:25

Tgt Ion: 43 Resp: 2858
Ion Ratio Lower Upper
43 100
74 42.9 19.7 29.5#





#20

Methylene Chloride

Concen: 1.097 ug/l

RT: 2.85 min Scan# 279

Delta R.T. 0.01 min

Lab File: VX011706.D

Acq: 21 Aug 2019 00:25

Instrument :

MSVOA_X

ClientSampleId :

T4-A1-(0)

Tgt Ion: 84 Resp: 3936

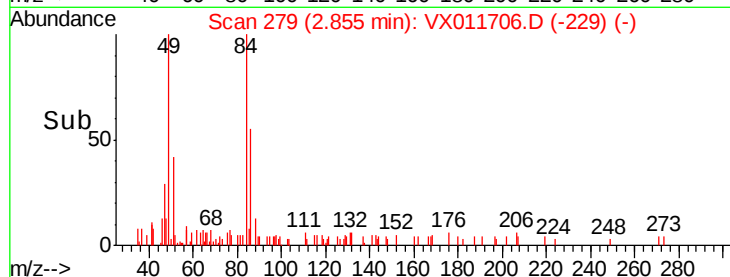
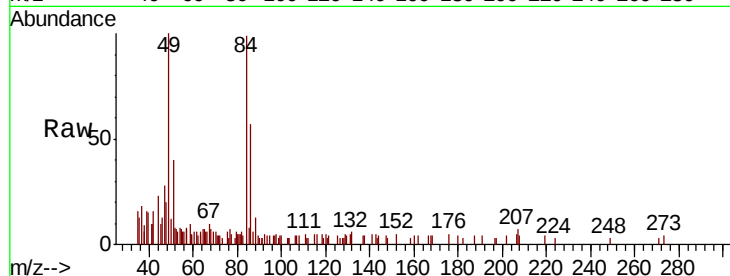
Ion Ratio Lower Upper

84 100

49 96.6 92.4 138.6

51 40.0 28.5 42.7

86 54.1 51.0 76.6

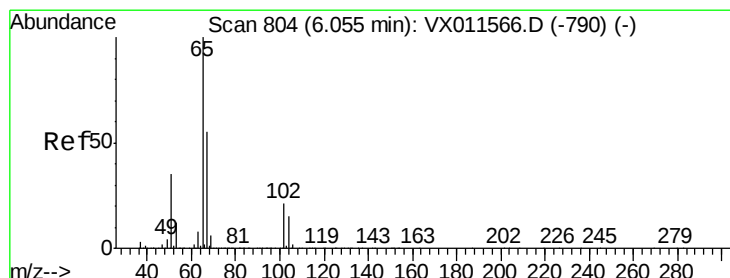
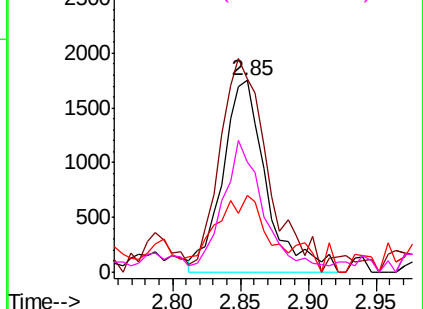


Abundance Ion 83.90 (83.60 to 84.60): VX0

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



#33

1,2-Dichloroethane-d4

Concen: 56.330 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011706.D

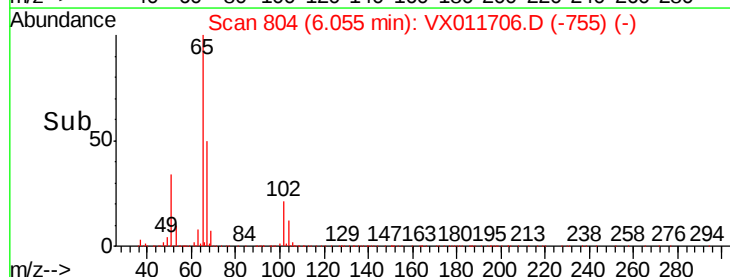
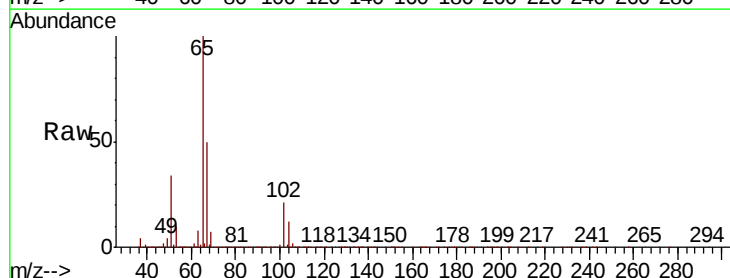
Acq: 21 Aug 2019 00:25

Tgt Ion: 65 Resp: 191499

Ion Ratio Lower Upper

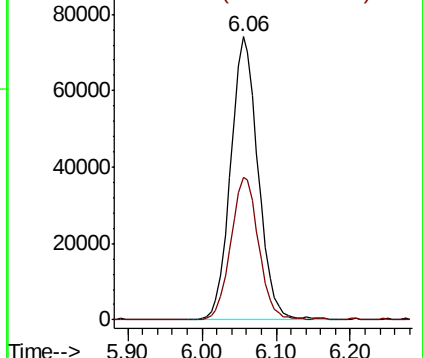
65 100

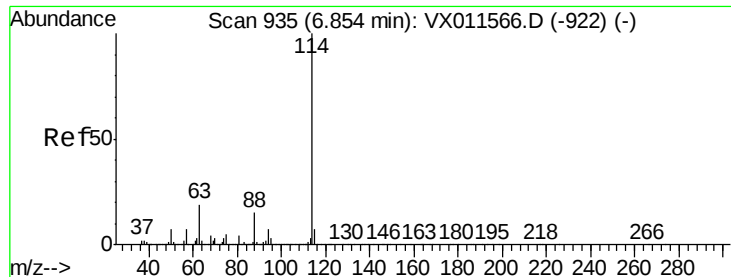
67 50.3 0.0 107.6



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# 935

Delta R.T. 0.00 min

Lab File: VX011706.D

Acq: 21 Aug 2019 00:25

Instrument :

MSVOA_X

ClientSampleId :

T4-A1-(0)

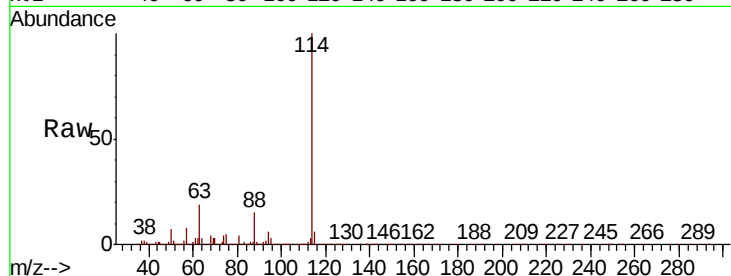
Tgt Ion:114 Resp: 529810

Ion Ratio Lower Upper

114 100

63 18.7 0.0 37.8

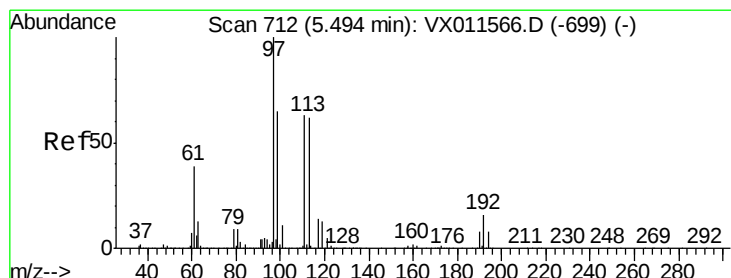
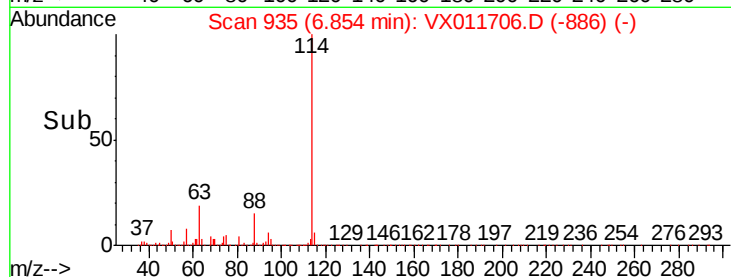
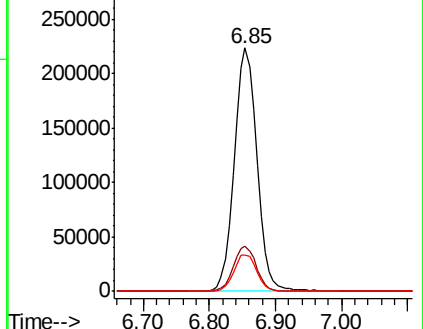
88 14.9 0.0 30.2



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: 46.306 ug/l

RT: 5.49 min Scan# 711

Delta R.T. -0.01 min

Lab File: VX011706.D

Acq: 21 Aug 2019 00:25

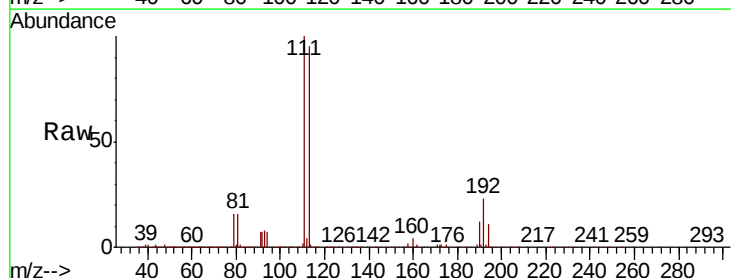
Tgt Ion:113 Resp: 160464

Ion Ratio Lower Upper

113 100

111 102.0 81.1 121.7

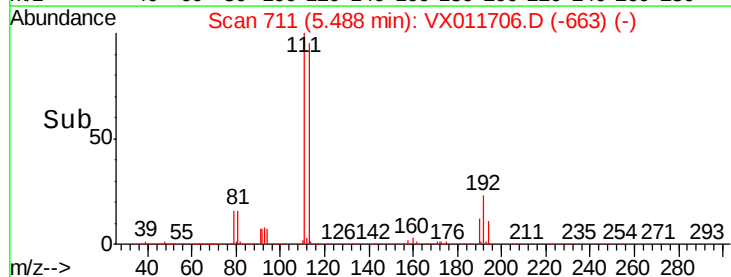
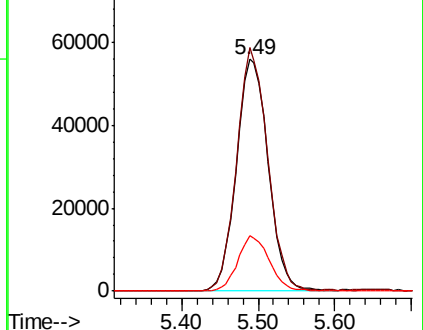
192 24.0 20.8 31.2

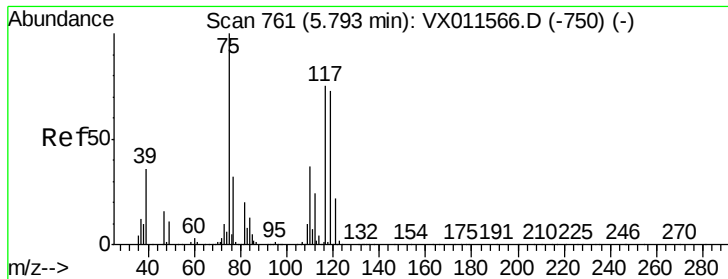


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.909 ug/l

RT: 5.65 min Scan# 737

Delta R.T. -0.15 min

Lab File: VX011706.D

Acq: 21 Aug 2019 00:25

Instrument :

MSVOA_X

ClientSampled :

T4-A1-(0)

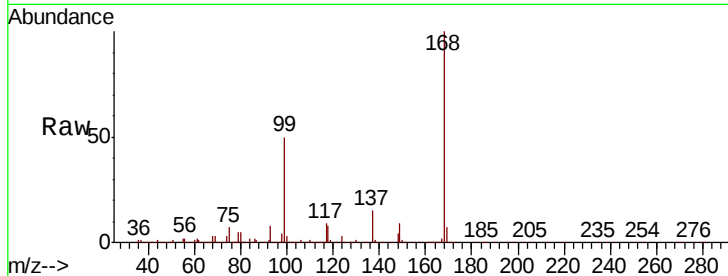
Tgt Ion: 75 Resp: 22235

Ion Ratio Lower Upper

75 100

110 12.7 19.4 58.1#

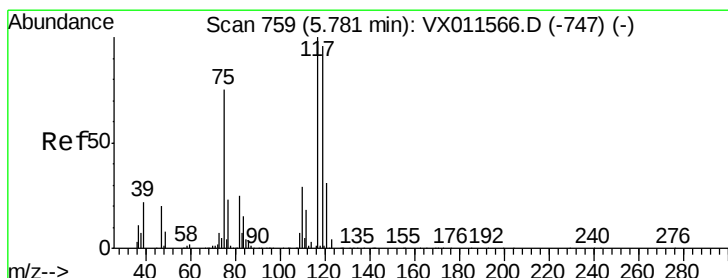
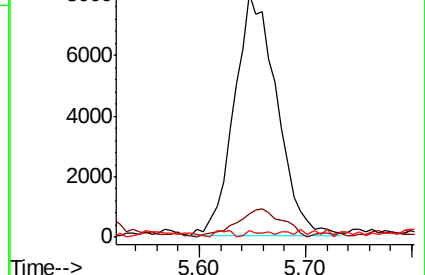
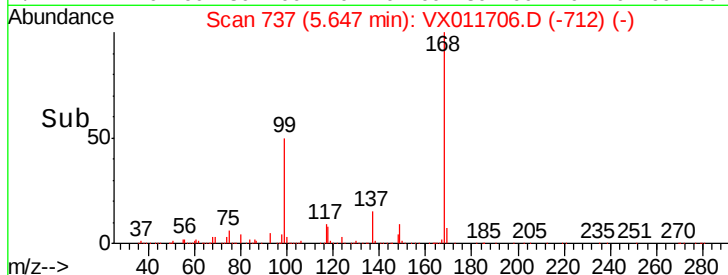
77 1.5 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VX011706.D (-712) (-)

Ion 109.90 (109.60 to 110.60): VX011706.D (-712) (-)

Ion 76.90 (76.60 to 77.60): VX011706.D (-712) (-)



#38

Carbon Tetrachloride

Concen: 6.697 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011706.D

Acq: 21 Aug 2019 00:25

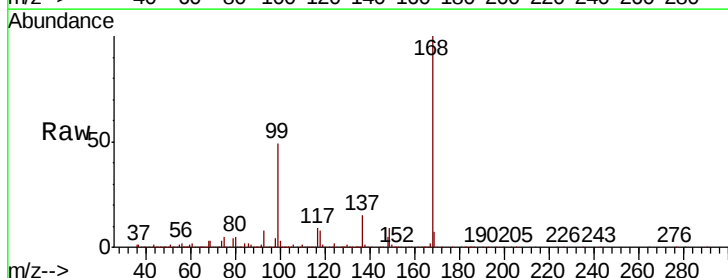
Tgt Ion: 117 Resp: 33421

Ion Ratio Lower Upper

117 100

119 5.9 76.9 115.3#

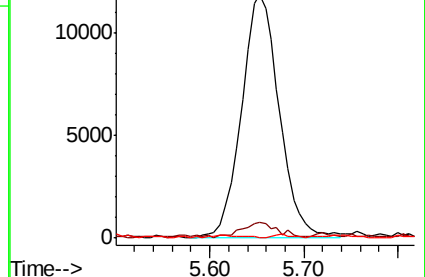
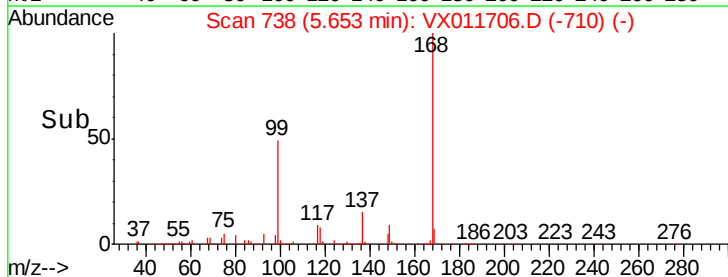
121 0.0 24.8 37.2#

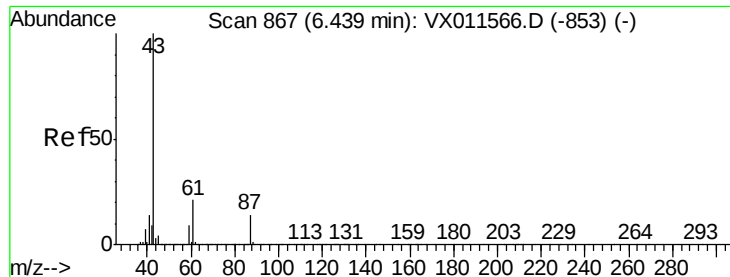


Abundance Ion 116.80 (116.50 to 117.50): VX011706.D (-710) (-)

Ion 118.80 (118.50 to 119.50): VX011706.D (-710) (-)

Ion 120.80 (120.50 to 121.50): VX011706.D (-710) (-)





#43

Isopropyl Acetate

Concen: 7.195 ug/l

RT: 6.44 min Scan# 867

Delta R.T. 0.00 min

Lab File: VX011706.D

Acq: 21 Aug 2019 00:25

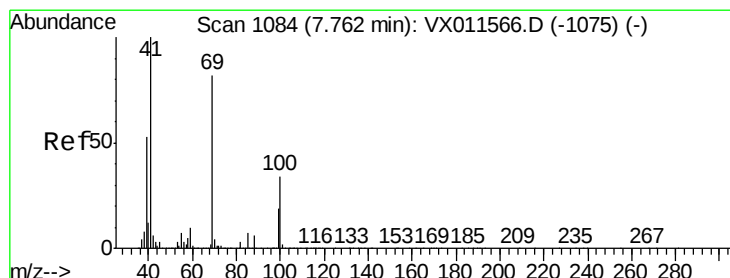
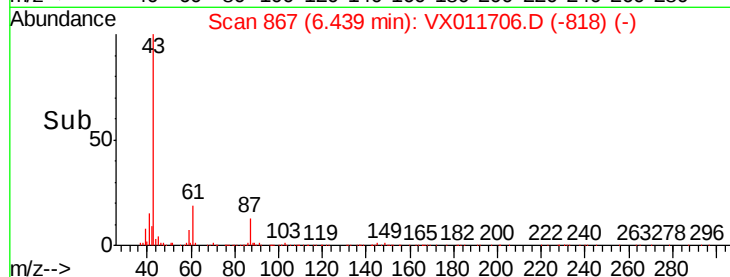
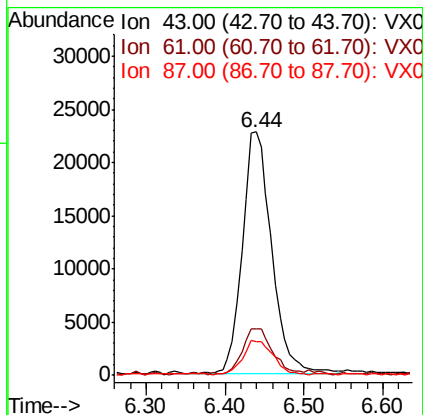
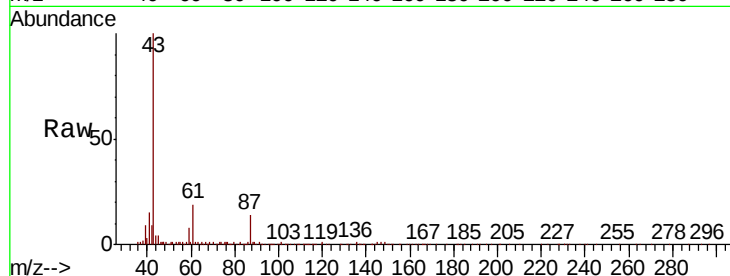
Instrument :

MSVOA_X

ClientSampleId :

T4-A1-(0)

Tgt Ion:	43	Resp:	58503
Ion	Ratio	Lower	Upper
43	100		
61	18.6	16.6	24.8
87	15.2	11.4	17.2



#48

Methyl methacrylate

Concen: 0.909 ug/l

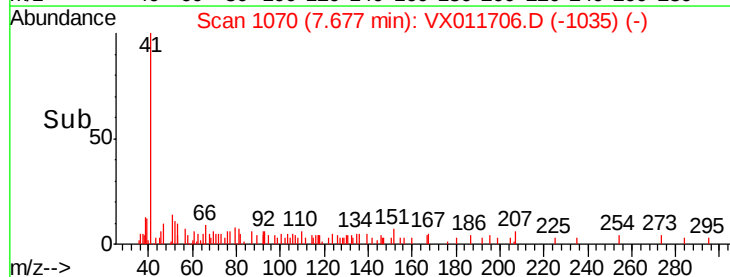
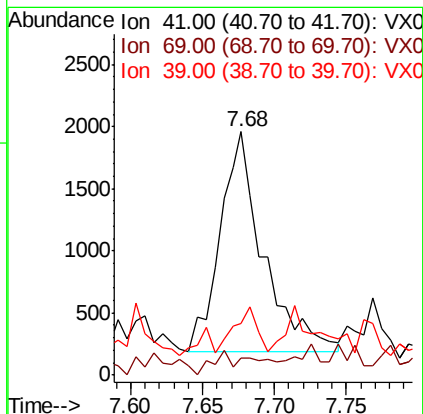
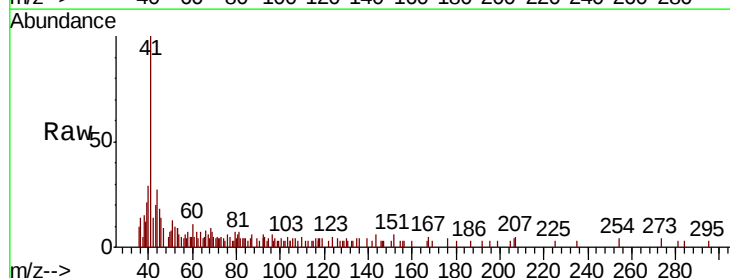
RT: 7.68 min Scan# 1070

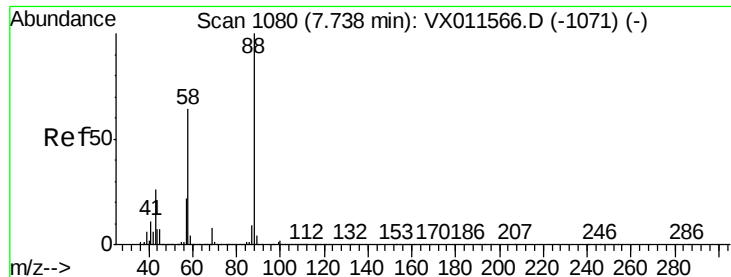
Delta R.T. -0.09 min

Lab File: VX011706.D

Acq: 21 Aug 2019 00:25

Tgt Ion:	41	Resp:	3662
Ion	Ratio	Lower	Upper
41	100		
69	4.6	67.9	101.9#
39	0.0	41.6	62.4#





#49

1,4-Dioxane

Concen: 2.316 ug/l

RT: 7.73 min Scan# 1078

Delta R.T. -0.01 min

Lab File: VX011706.D

Acq: 21 Aug 2019 00:25

Instrument :

MSVOA_X

ClientSampled :

T4-A1-(0)

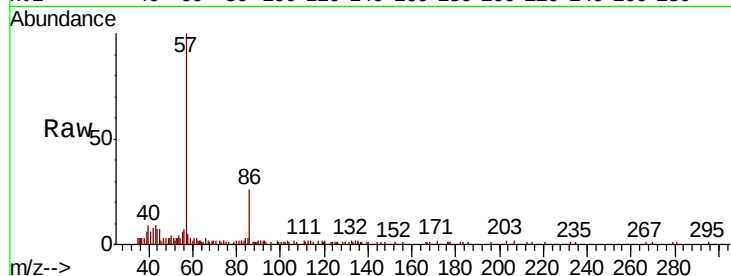
Tgt Ion: 88 Resp: 248

Ion Ratio Lower Upper

88 100

43 0.0 23.4 35.0#

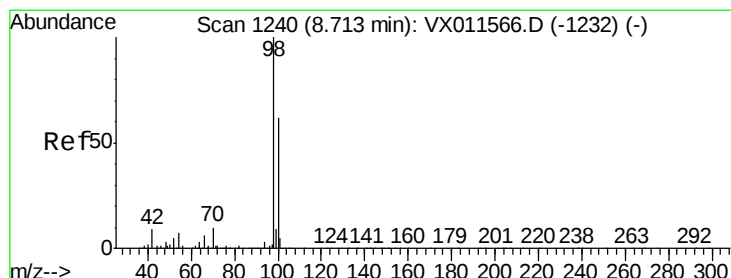
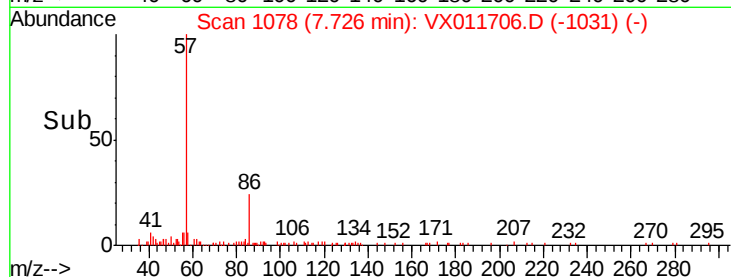
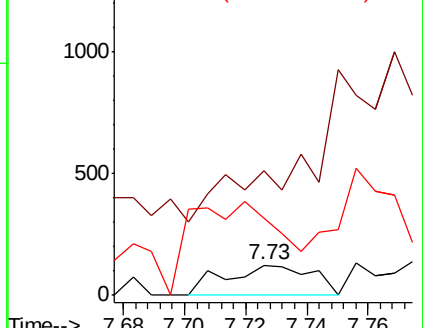
58 319.0 54.3 81.5#



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: 56.243 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011706.D

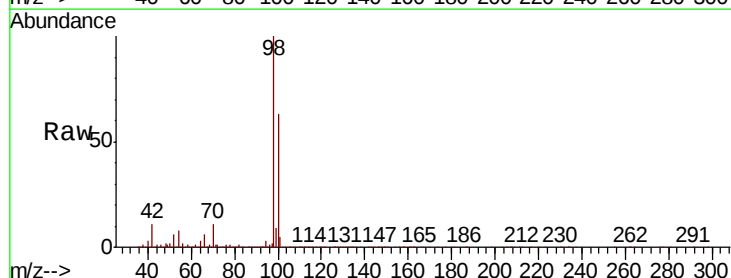
Acq: 21 Aug 2019 00:25

Tgt Ion: 98 Resp: 607280

Ion Ratio Lower Upper

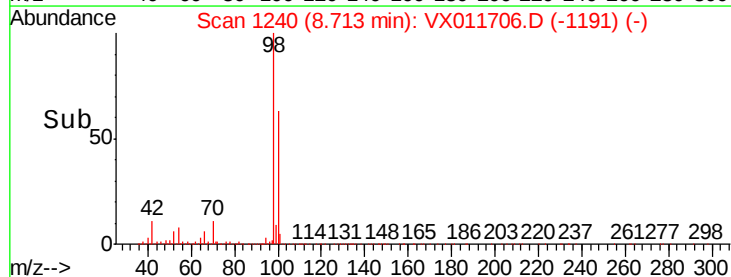
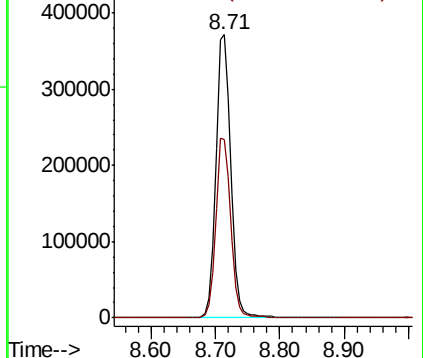
98 100

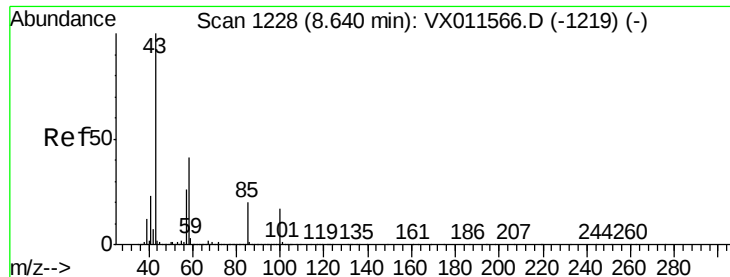
100 63.5 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

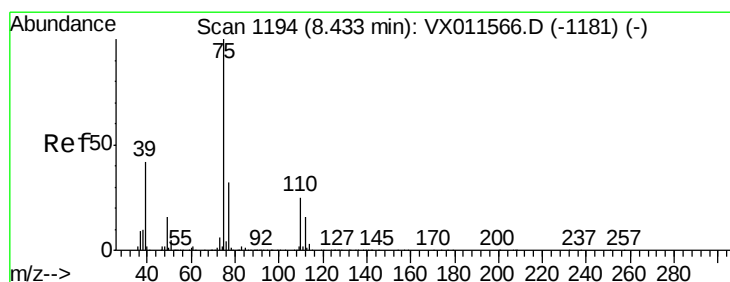
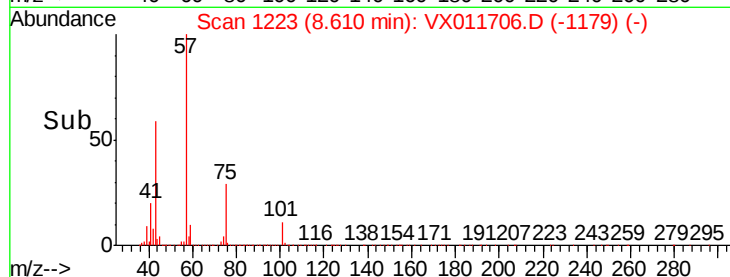
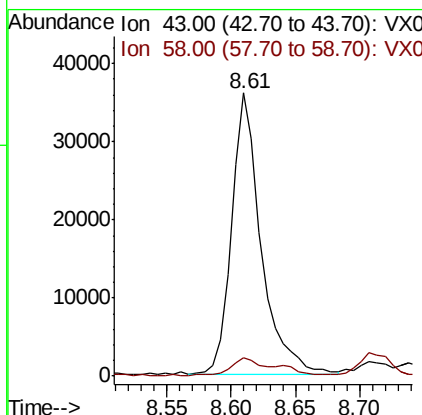
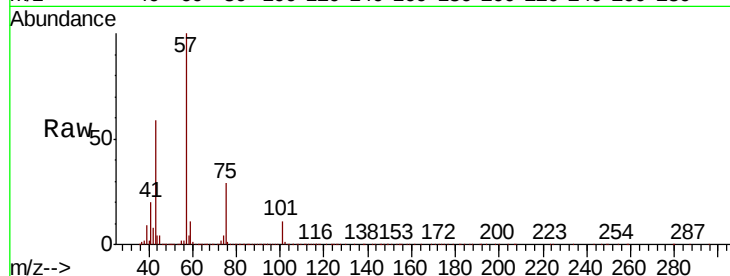




#51
 4-Methyl-2-Pentanone
 Concen: 10.787 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. -0.03 min
 Lab File: VX011706.D
 Acq: 21 Aug 2019 00:25

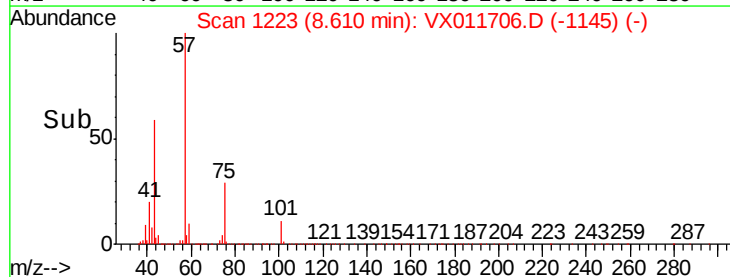
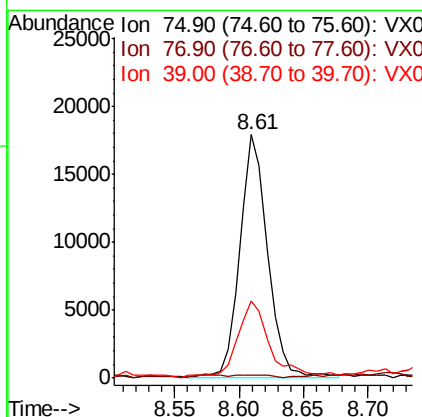
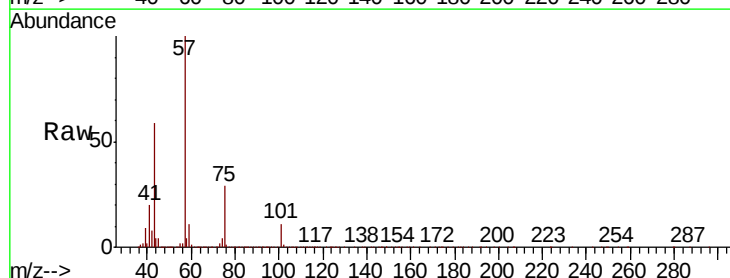
Instrument :
 MSVOA_X
 ClientSampleId :
 T4-A1-(0)

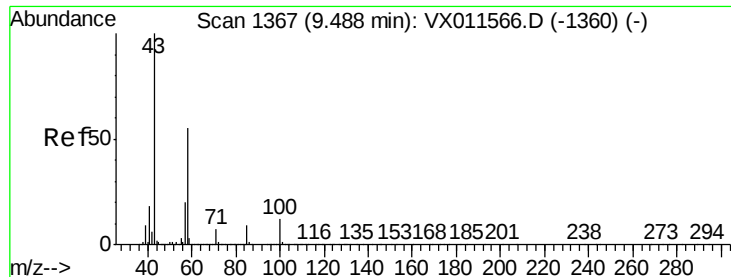
Tgt Ion: 43 Resp: 57408
 Ion Ratio Lower Upper
 43 100
 58 6.1 31.8 47.6#



#54
 cis-1,3-Dichloropropene
 Concen: 4.971 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011706.D
 Acq: 21 Aug 2019 00:25

Tgt Ion: 75 Resp: 26447
 Ion Ratio Lower Upper
 75 100
 77 0.2 25.5 38.3#
 39 31.0 33.6 50.4#

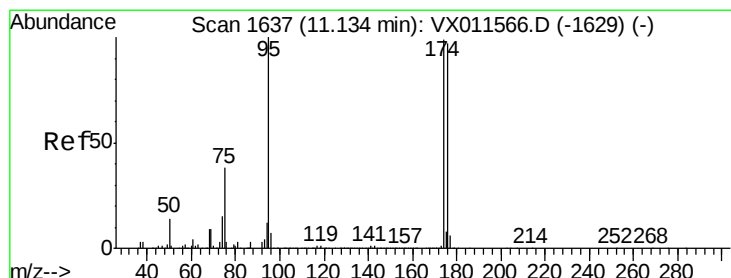
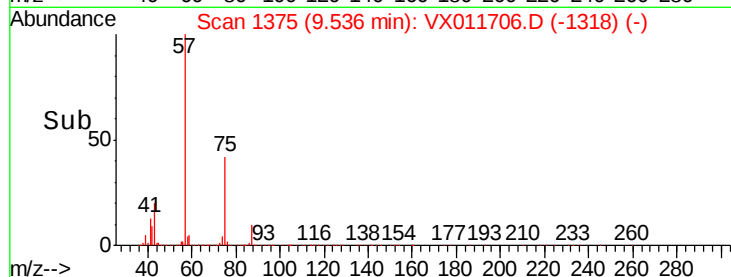
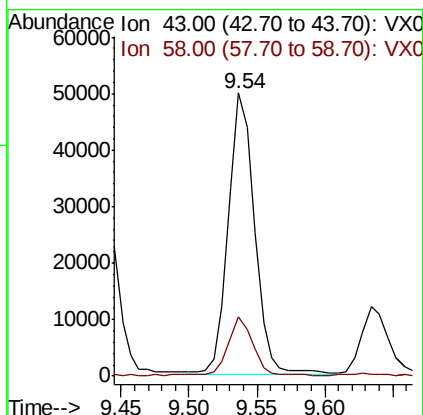
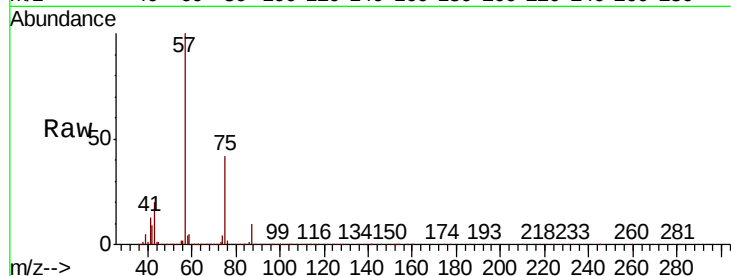




#59
2-Hexanone
Concen: 16.391 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011706.D
Acq: 21 Aug 2019 00:25

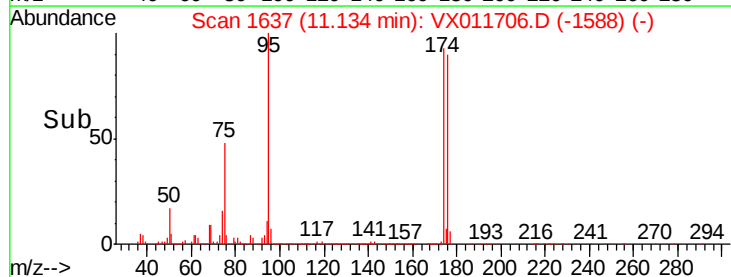
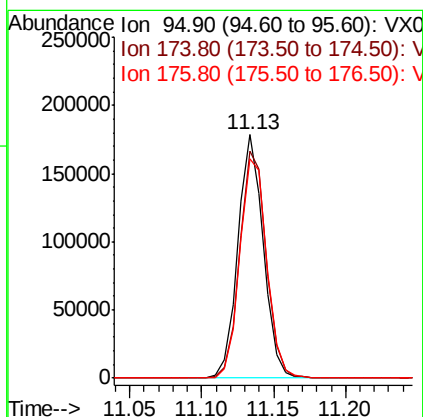
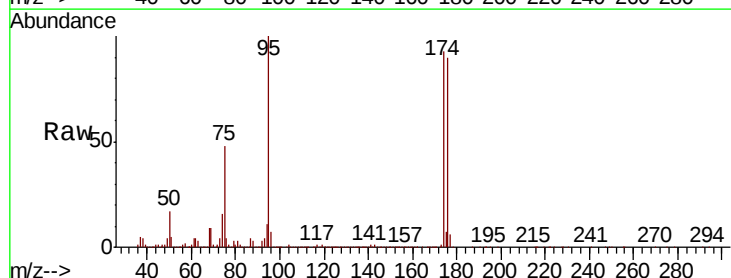
Instrument :
MSVOA_X
ClientSampled :
T4-A1-(0)

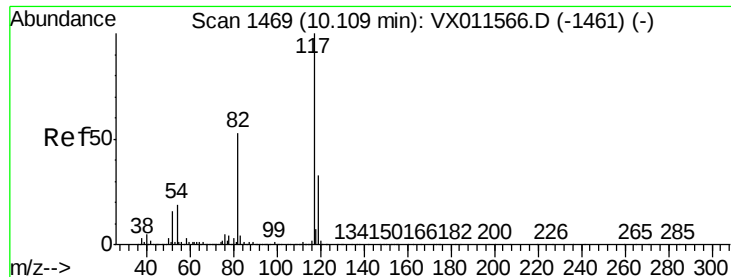
Tgt Ion: 43 Resp: 67271
Ion Ratio Lower Upper
43 100
58 20.6 27.5 82.4#



#62
4-Bromofluorobenzene
Concen: 48.013 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011706.D
Acq: 21 Aug 2019 00:25

Tgt Ion: 95 Resp: 218816
Ion Ratio Lower Upper
95 100
174 97.0 0.0 200.6
176 95.5 0.0 196.6

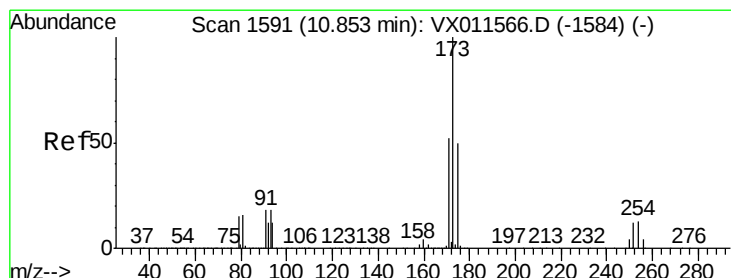
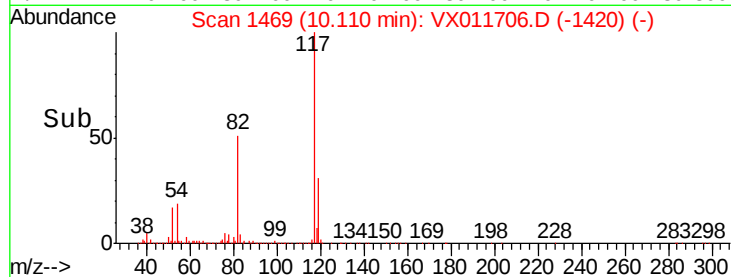
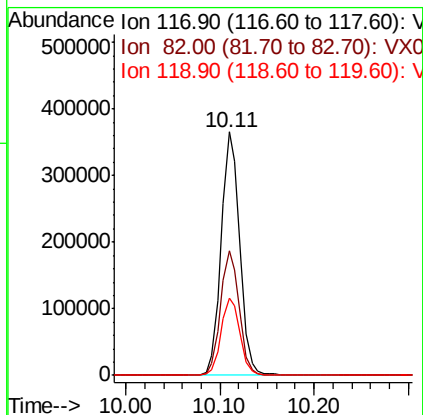
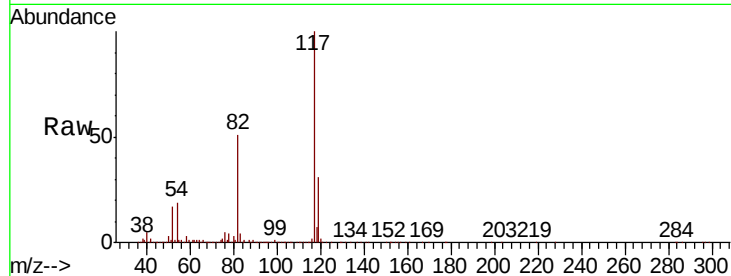




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011706.D
Acq: 21 Aug 2019 00:25

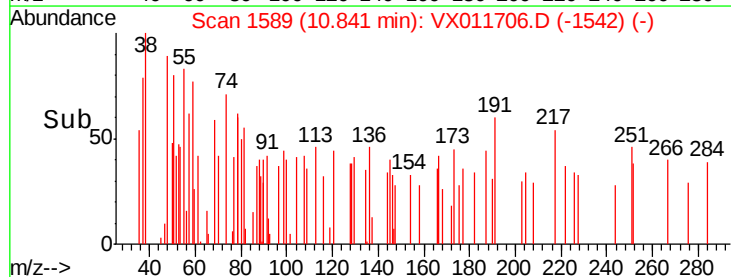
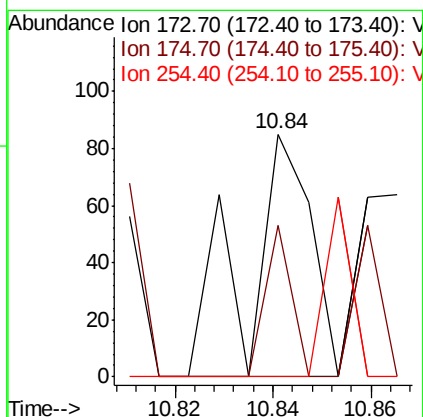
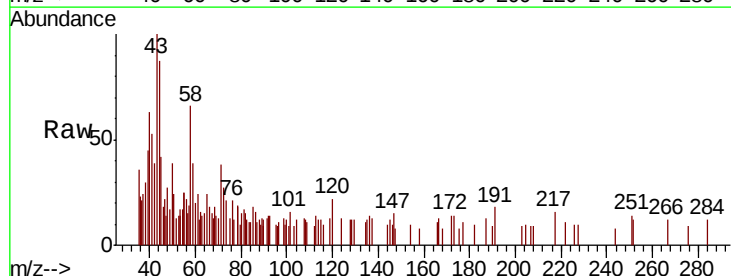
Instrument :
MSVOA_X
ClientSampled :
T4-A1-(0)

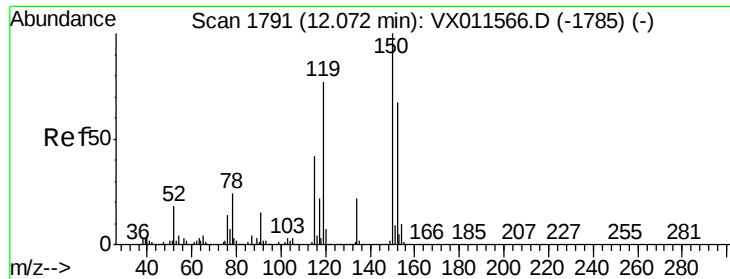
Tgt Ion:117 Resp: 498712
Ion Ratio Lower Upper
117 100
82 51.3 42.0 63.0
119 31.5 26.5 39.7



#71
Bromoform
Concen: 3.310 ug/l
RT: 10.84 min Scan# 1589
Delta R.T. -0.01 min
Lab File: VX011706.D
Acq: 21 Aug 2019 00:25

Tgt Ion:173 Resp: 77
Ion Ratio Lower Upper
173 100
175 0.0 24.9 74.7#
254 29.9 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VX011706.D

Acq: 21 Aug 2019 00:25

Instrument :

MSVOA_X

ClientSampleId :

T4-A1-(0)

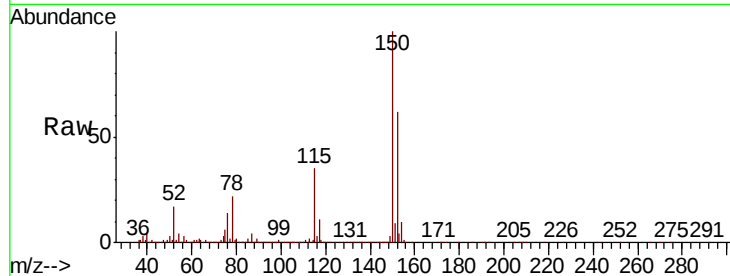
Tgt Ion:152 Resp: 238165

Ion Ratio Lower Upper

152 100

115 53.6 37.3 111.9

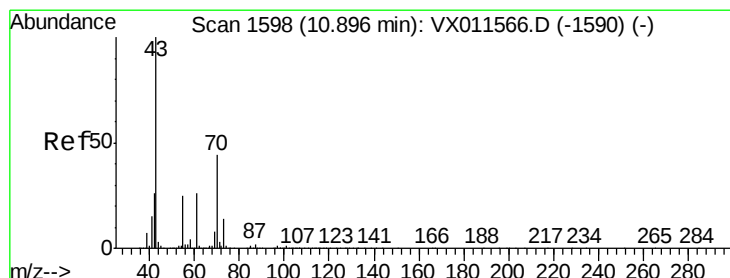
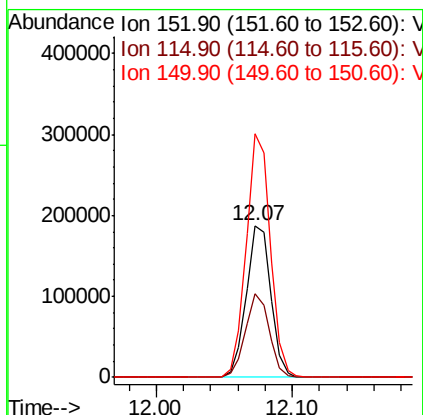
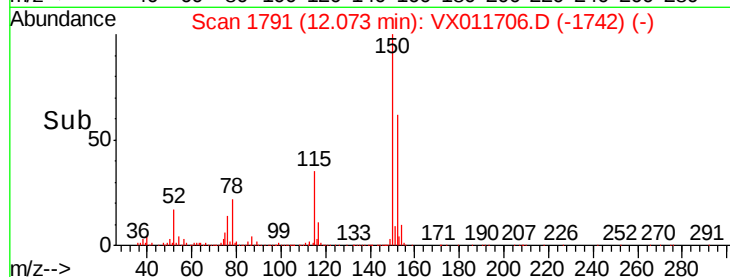
150 156.7 0.0 346.2



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



#74

N-ethyl acetate

Concen: 0.401 ug/l

RT: 10.82 min Scan# 1586

Delta R.T. -0.07 min

Lab File: VX011706.D

Acq: 21 Aug 2019 00:25

Tgt Ion: 43 Resp: 2636

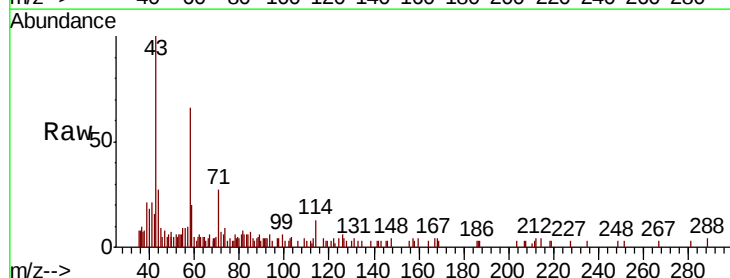
Ion Ratio Lower Upper

43 100

70 3.1 34.7 52.1#

55 4.0 19.6 29.4#

61 0.0 19.9 29.9#

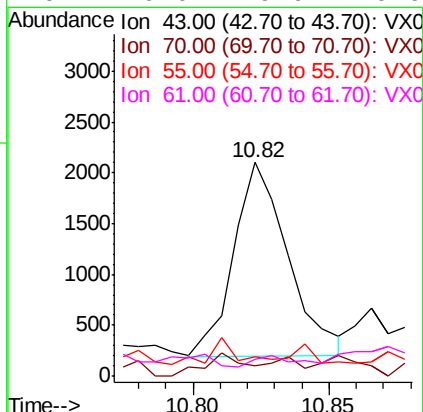
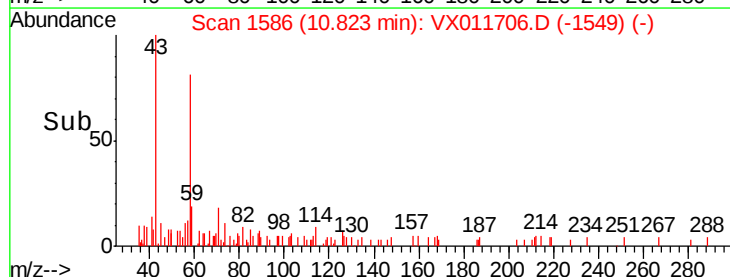


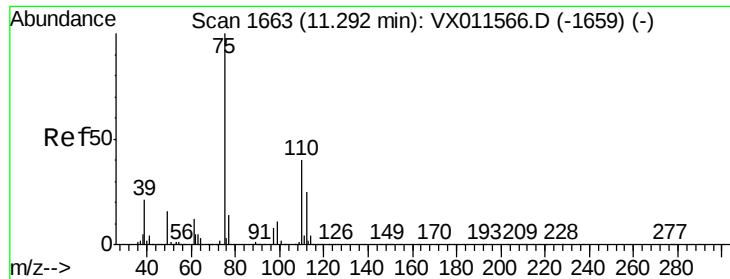
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

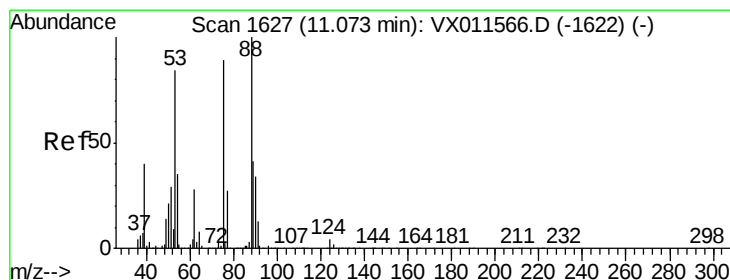
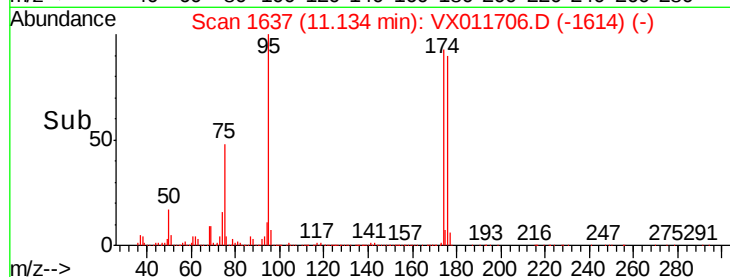
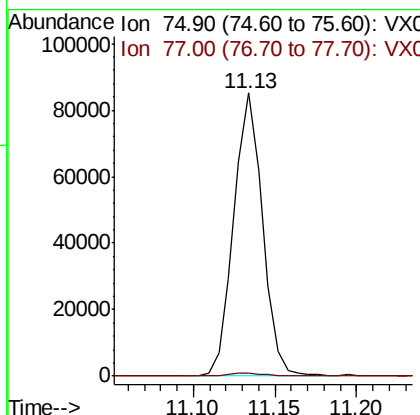
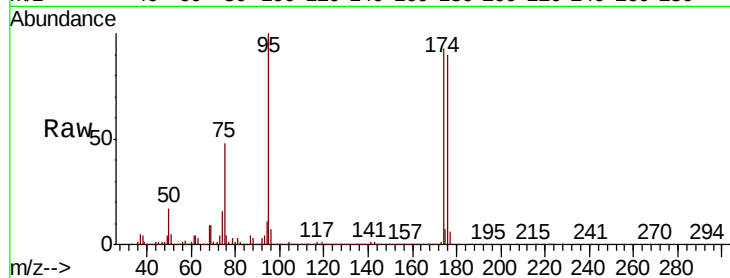




#76
 1,2,3-Trichloropropane
 Concen: 23.108 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX011706.D
 Acq: 21 Aug 2019 00:25

Instrument :
 MSVOA_X
 ClientSampleId :
 T4-A1-(0)

Tgt Ion: 75 Resp: 104361
 Ion Ratio Lower Upper
 75 100
 77 1.7 20.9 62.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 61.469 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX011706.D
 Acq: 21 Aug 2019 00:25

Tgt Ion: 75 Resp: 104361
 Ion Ratio Lower Upper
 75 100
 53 0.2 77.4 116.0#
 89 0.1 37.3 55.9#

