

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX082019\
 Data File : VX011700.D
 Acq On : 20 Aug 2019 22:04
 Operator : JC/SP
 Sample : K4387-21
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 T6-B-(0)

Quant Time: Aug 20 23:28:46 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	342909	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	520109	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	483868	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	235845	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	190357	59.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.72%	
35) Dibromofluoromethane	5.49	113	150490	44.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.48%	
50) Toluene-d8	8.71	98	606928	57.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.52%	
62) 4-Bromofluorobenzene	11.13	95	219998	49.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.34%	

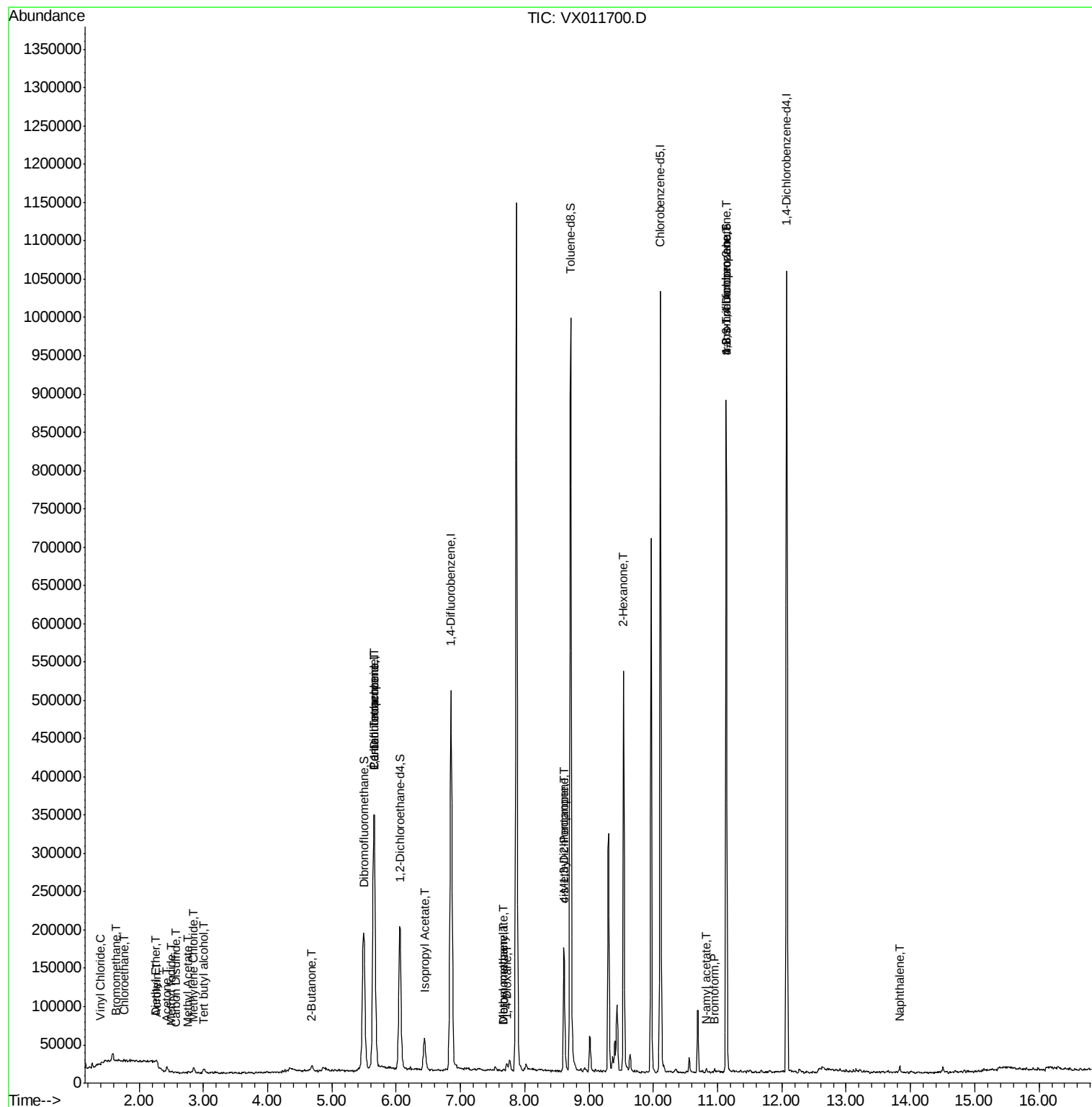
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	659	0.208	ug/l #	43
5) Bromomethane	1.65	94	568	0.401	ug/l #	48
6) Chloroethane	1.78	64	625	0.418	ug/l	93
8) Diethyl Ether	2.25	74	410	0.273	ug/l	99
10) Methyl Iodide	2.51	142	1945	0.451	ug/l #	82
11) Tert butyl alcohol	3.00	59	4189	5.369	ug/l #	89
13) Acrolein	2.28	56	586	14.506	ug/l #	45
16) Acetone	2.43	43	8902	5.567	ug/l	97
17) Carbon Disulfide	2.57	76	1382	0.201	ug/l #	77
18) Methyl Acetate	2.76	43	3645	0.735	ug/l	95
20) Methylene Chloride	2.85	84	3852	1.147	ug/l #	81
25) 2-Butanone	4.68	43	937	0.373	ug/l #	61
36) 1,1-Dichloropropene	5.65	75	23091	5.193	ug/l #	50
38) Carbon Tetrachloride	5.66	117	32192	6.571	ug/l #	15
43) Isopropyl Acetate	6.44	43	57455	7.198	ug/l	99
46) Dibromomethane	7.66	93	519	0.207	ug/l #	39
48) Methyl methacrylate	7.68	41	3040	0.769	ug/l #	20
49) 1,4-Dioxane	7.73	88	163	1.550	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	56459	10.806	ug/l #	45
54) cis-1,3-Dichloropropene	8.61	75	26730	5.118	ug/l #	66
59) 2-Hexanone	9.54	43	62592	15.535	ug/l #	52
71) Bromoform	10.95	173	110	3.319	ug/l #	28
74) N-ethyl acetate	10.82	43	2940	0.452	ug/l #	54
76) 1,2,3-Trichloropropane	11.13	75	103784	23.207	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	103784	61.711	ug/l #	11
95) Naphthalene	13.83	128	6095	0.368	ug/l #	96

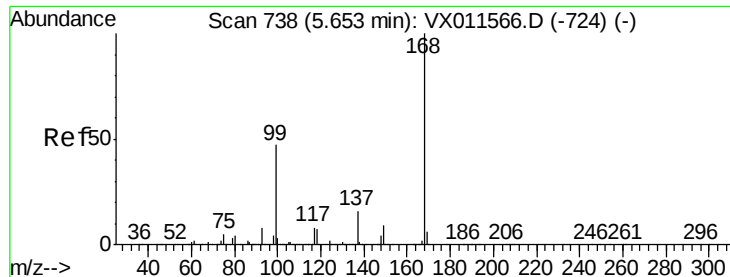
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Aug 16 04:15:26 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.00 min

Lab File: VX011700.D

Acq: 20 Aug 2019 22:04

Instrument :

MSVOA_X

ClientSampled :

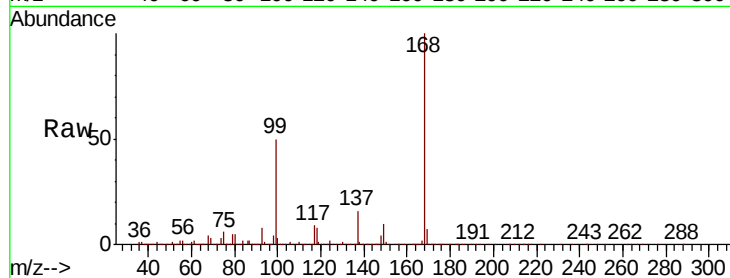
T6-B-(0)

Tgt Ion:168 Resp: 342909

Ion Ratio Lower Upper

168 100

99 49.5 37.3 55.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

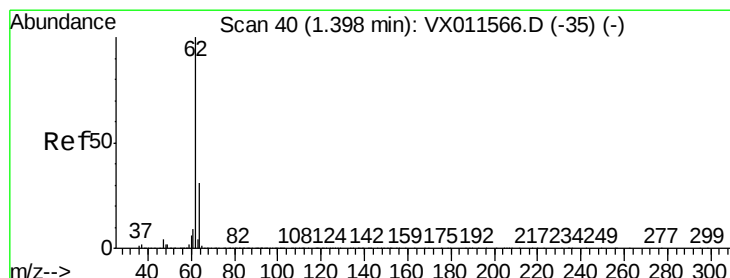
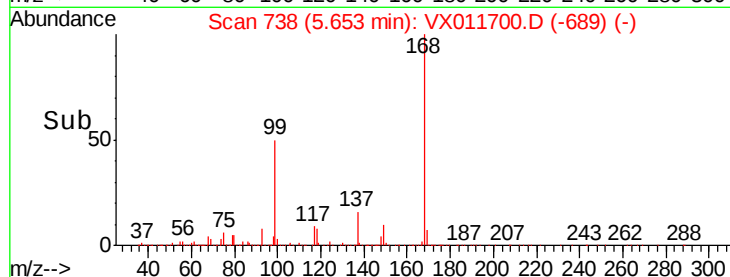
5.65

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 0.208 ug/l

RT: 1.40 min Scan# 40

Delta R.T. 0.00 min

Lab File: VX011700.D

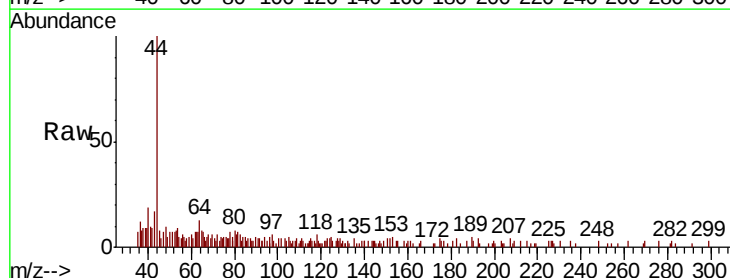
Acq: 20 Aug 2019 22:04

Tgt Ion: 62 Resp: 659

Ion Ratio Lower Upper

62 100

64 0.0 25.0 37.4#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

800

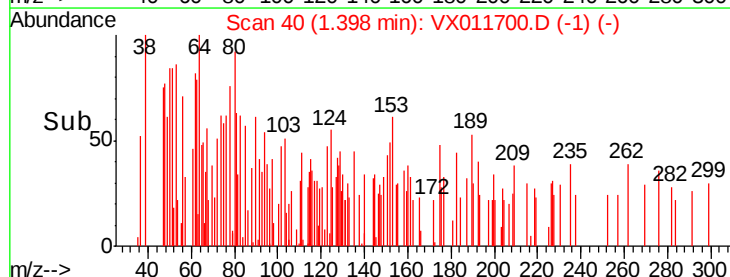
600

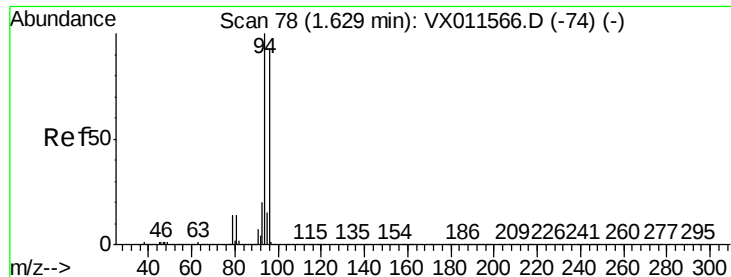
400

200

0

Time-->





#5

Bromomethane

Concen: 0.401 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.02 min

Lab File: VX011700.D

Acq: 20 Aug 2019 22:04

Instrument :

MSVOA_X

ClientSampled :

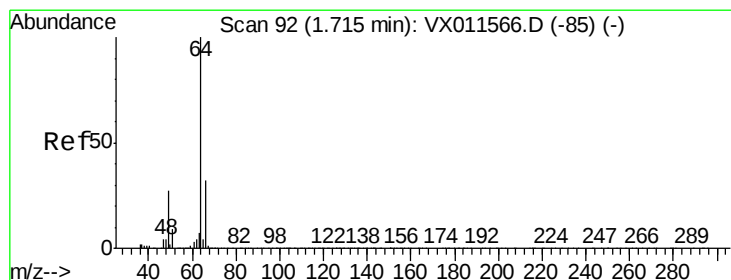
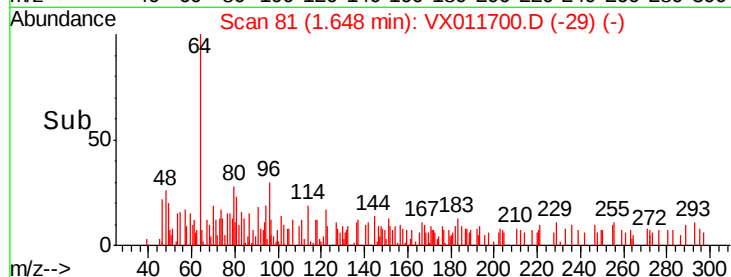
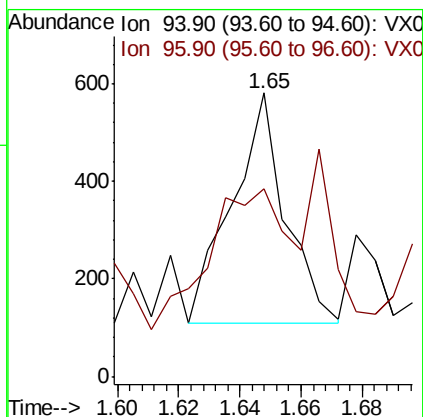
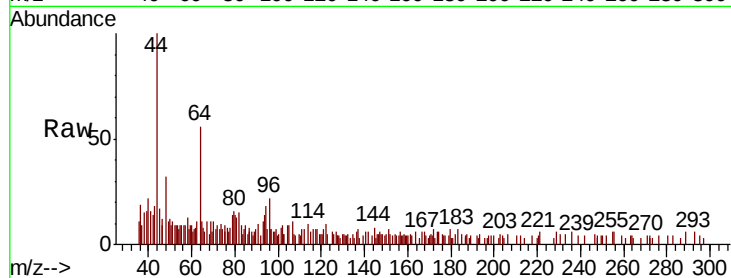
T6-B-(0)

Tgt Ion: 94 Resp: 568

Ion Ratio Lower Upper

94 100

96 43.3 74.8 112.2#



#6

Chloroethane

Concen: 0.418 ug/l

RT: 1.78 min Scan# 102

Delta R.T. 0.06 min

Lab File: VX011700.D

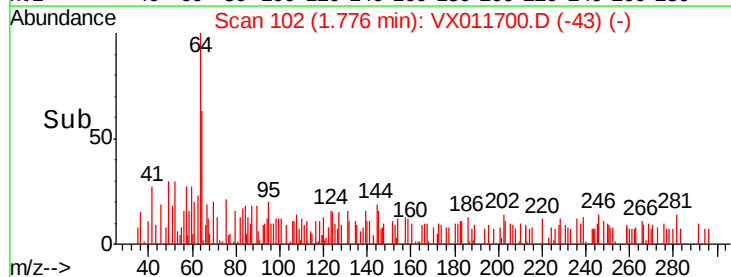
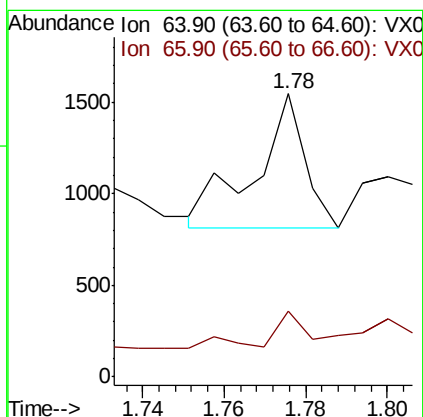
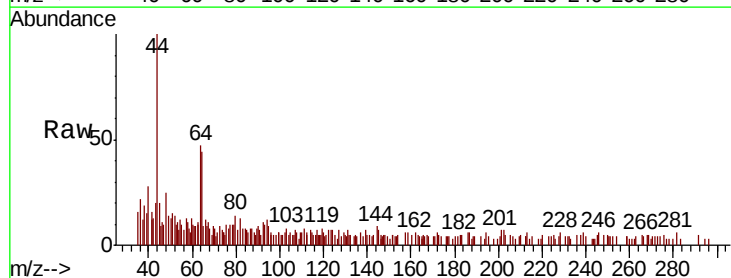
Acq: 20 Aug 2019 22:04

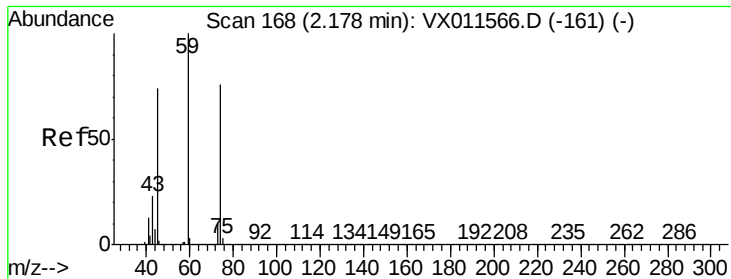
Tgt Ion: 64 Resp: 625

Ion Ratio Lower Upper

64 100

66 27.7 25.3 37.9

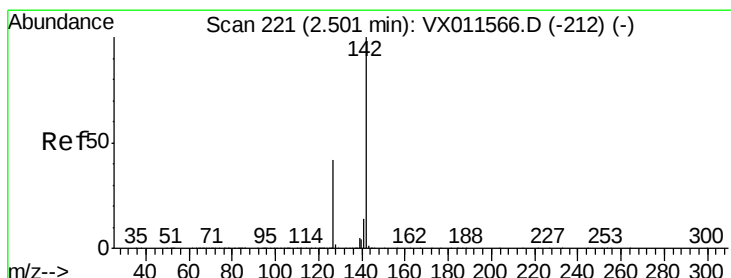
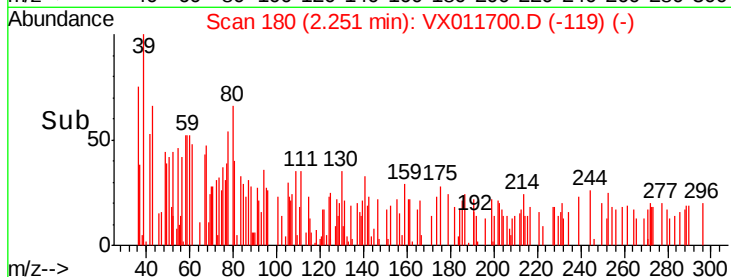
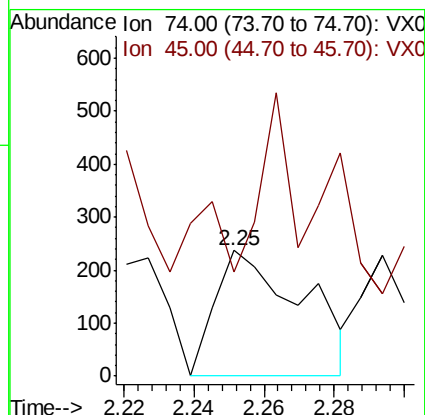
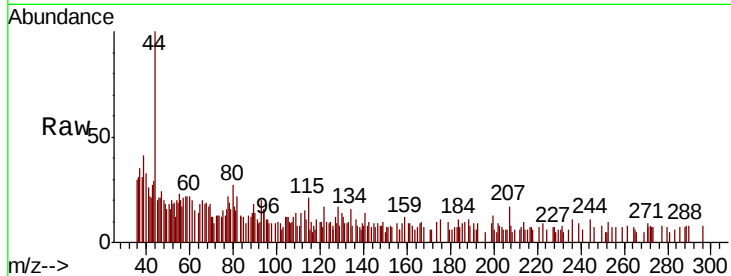




#8
Diethyl Ether
Concen: 0.273 ug/l
RT: 2.25 min Scan# 180
Delta R.T. 0.07 min
Lab File: VX011700.D
Acq: 20 Aug 2019 22:04

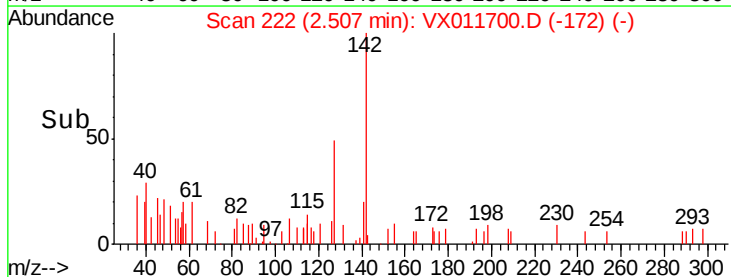
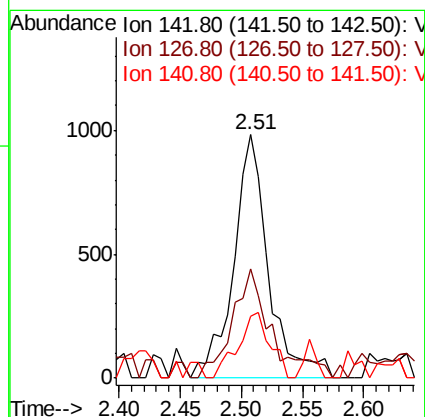
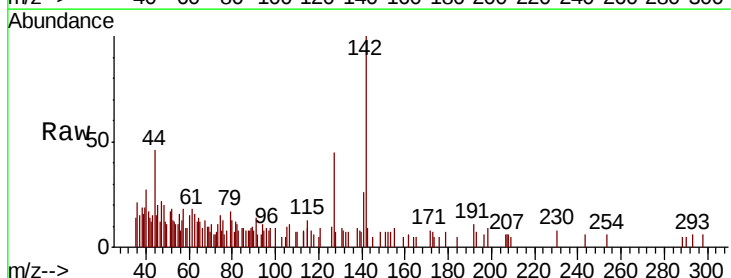
Instrument :
MSVOA_X
ClientSampled :
T6-B-(0)

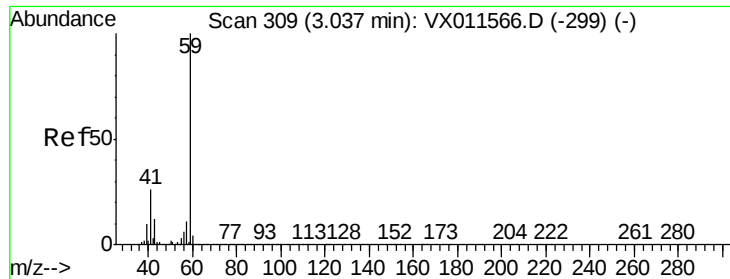
Tgt Ion: 74 Resp: 410
Ion Ratio Lower Upper
74 100
45 97.1 48.2 144.6



#10
Methyl Iodide
Concen: 0.451 ug/l
RT: 2.51 min Scan# 222
Delta R.T. 0.01 min
Lab File: VX011700.D
Acq: 20 Aug 2019 22:04

Tgt Ion: 142 Resp: 1945
Ion Ratio Lower Upper
142 100
127 50.4 32.8 49.2#
141 24.8 11.4 17.2#

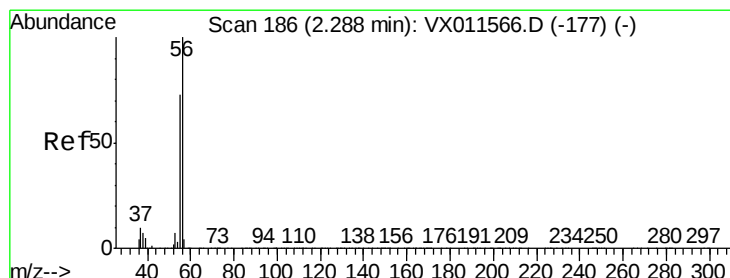
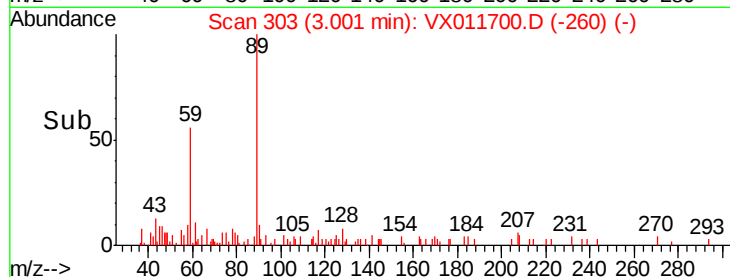
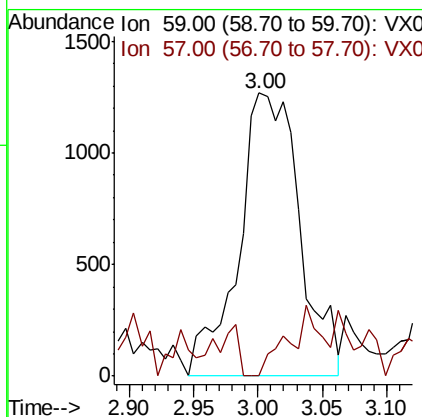
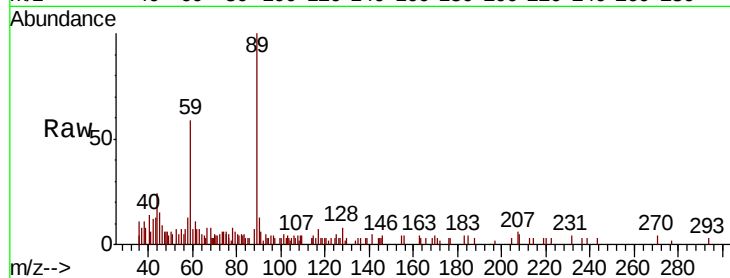




#11
Tert butyl alcohol
Concen: 5.369 ug/l
RT: 3.00 min Scan# 303
Delta R.T. -0.04 min
Lab File: VX011700.D
Acq: 20 Aug 2019 22:04

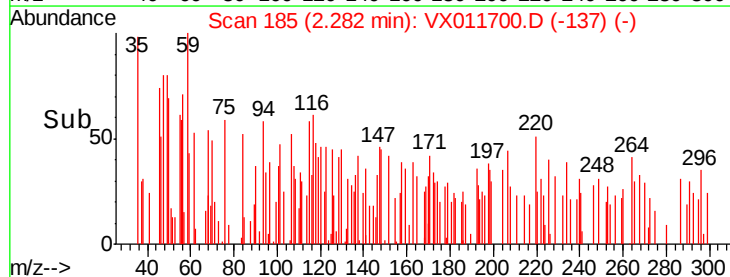
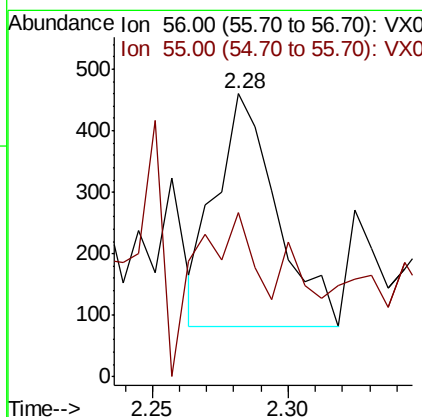
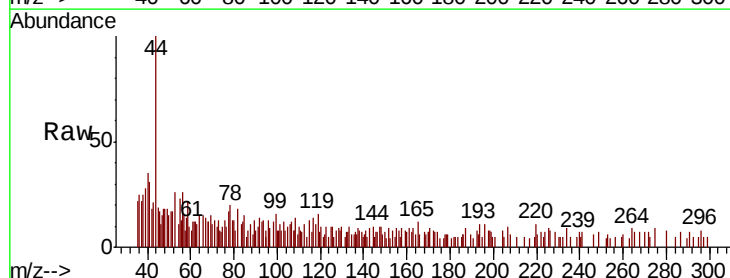
Instrument :
MSVOA_X
ClientSampleId :
T6-B-(0)

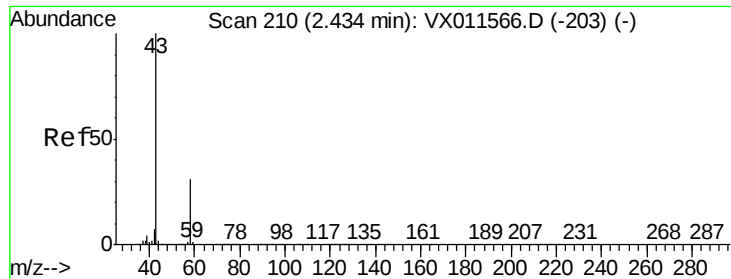
Tgt Ion: 59 Resp: 4189
Ion Ratio Lower Upper
59 100
57 6.9 8.7 13.1#



#13
Acrolein
Concen: 14.506 ug/l
RT: 2.28 min Scan# 185
Delta R.T. -0.01 min
Lab File: VX011700.D
Acq: 20 Aug 2019 22:04

Tgt Ion: 56 Resp: 586
Ion Ratio Lower Upper
56 100
55 24.6 55.5 83.3#





#16

Acetone

Concen: 5.567 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011700.D

Acq: 20 Aug 2019 22:04

Instrument :

MSVOA_X

ClientSampleId :

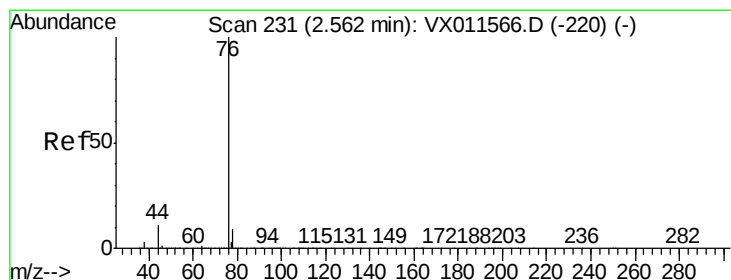
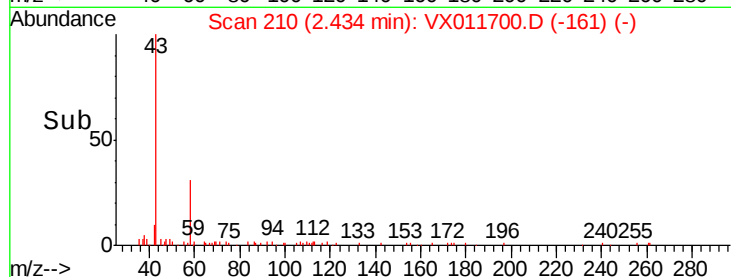
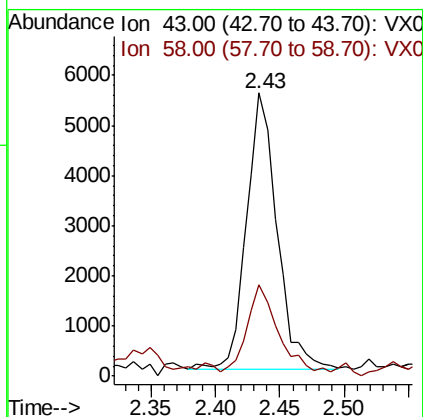
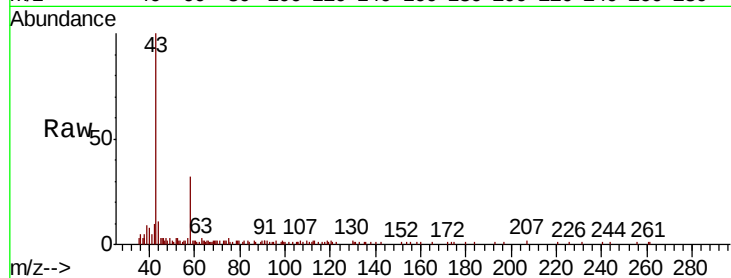
T6-B-(0)

Tgt Ion: 43 Resp: 8902

Ion Ratio Lower Upper

43 100

58 30.0 25.2 37.8



#17

Carbon Disulfide

Concen: 0.201 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.01 min

Lab File: VX011700.D

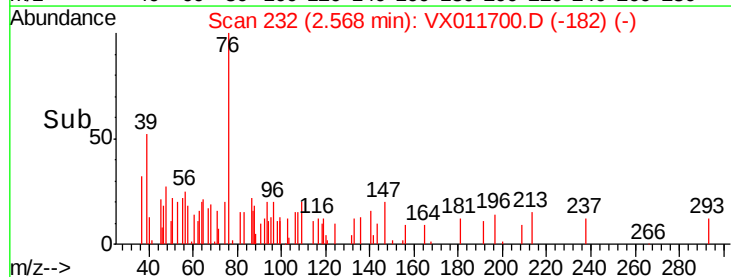
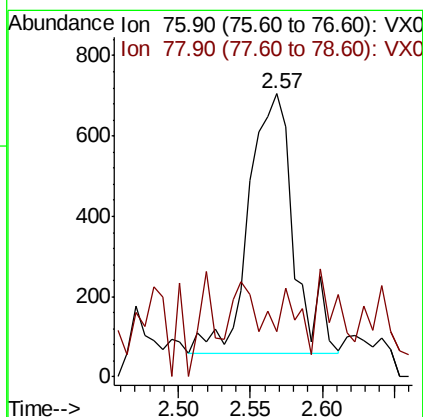
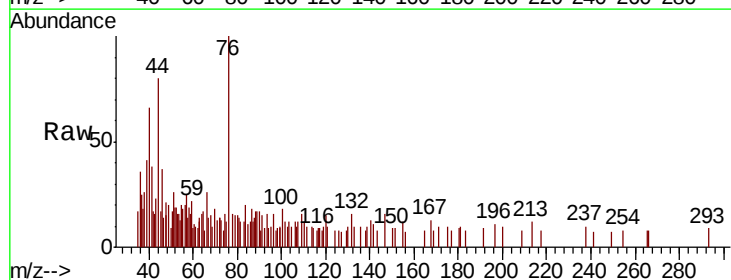
Acq: 20 Aug 2019 22:04

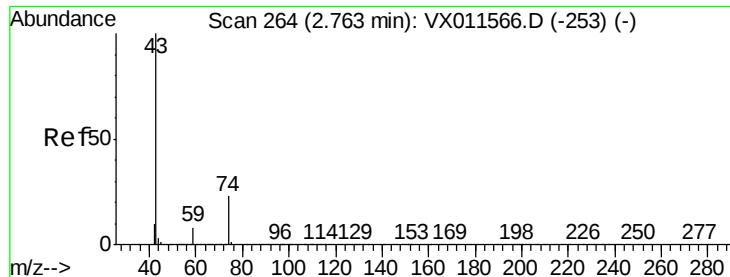
Tgt Ion: 76 Resp: 1382

Ion Ratio Lower Upper

76 100

78 17.3 7.2 10.8#

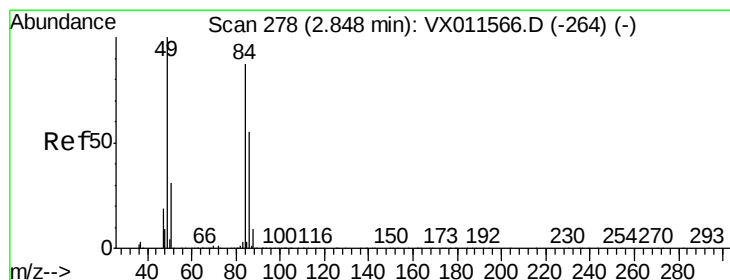
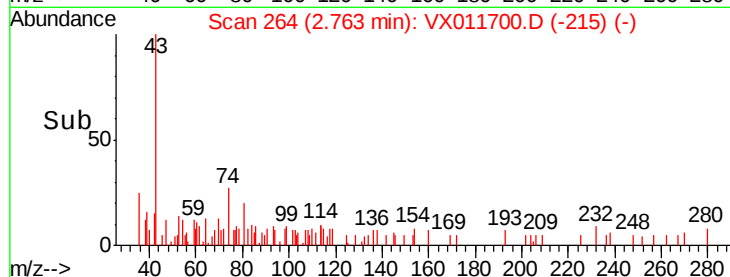
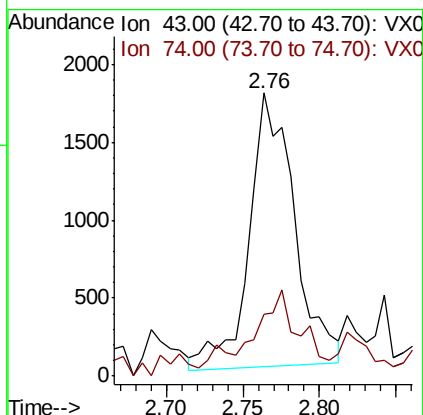
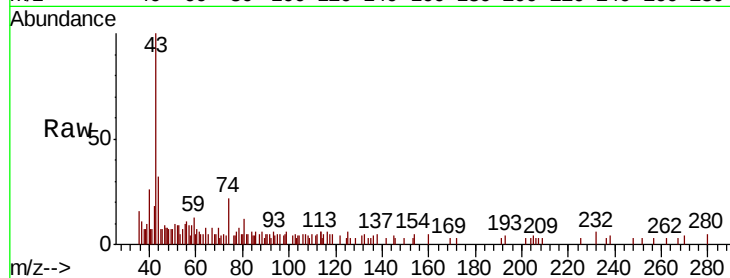




#18
Methyl Acetate
Concen: 0.735 ug/l
RT: 2.76 min Scan# 264
Delta R.T. 0.00 min
Lab File: VX011700.D
Acq: 20 Aug 2019 22:04

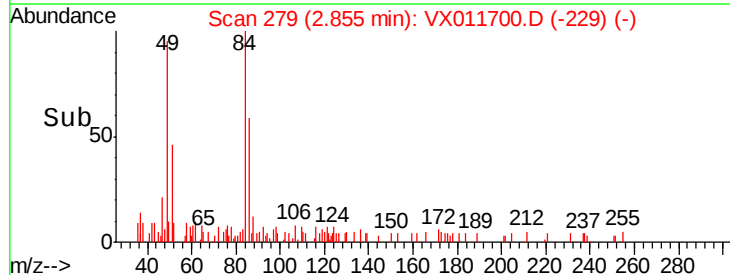
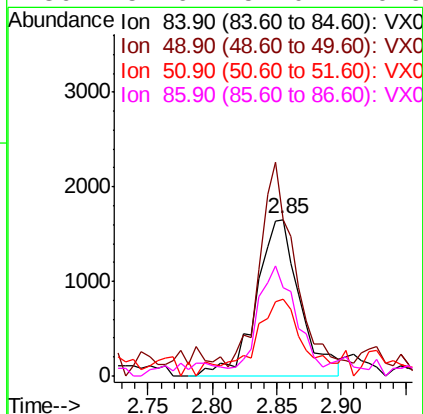
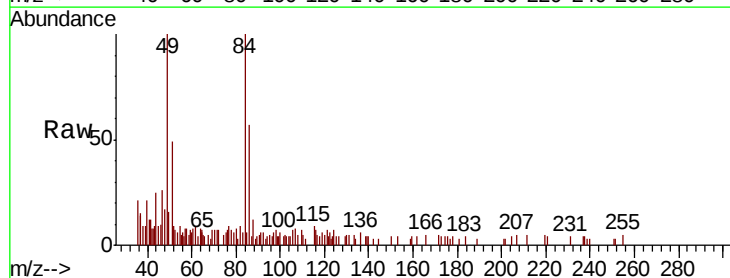
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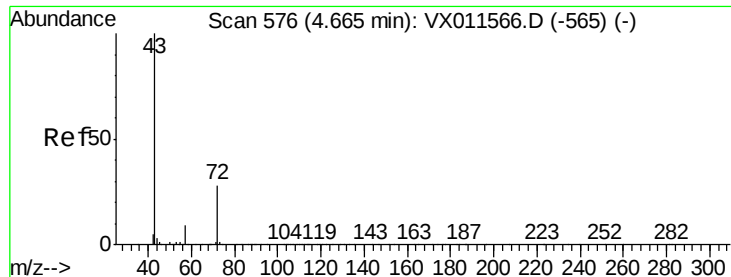
Tgt Ion: 43 Resp: 3645
Ion Ratio Lower Upper
43 100
74 27.3 19.7 29.5



#20
Methylene Chloride
Concen: 1.147 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.01 min
Lab File: VX011700.D
Acq: 20 Aug 2019 22:04

Tgt Ion: 84 Resp: 3852
Ion Ratio Lower Upper
84 100
49 89.8 92.4 138.6#
51 41.4 28.5 42.7
86 52.6 51.0 76.6





#25

2-Butanone

Concen: 0.373 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.01 min

Lab File: VX011700.D

Acq: 20 Aug 2019 22:04

Instrument :

MSVOA_X

ClientSampled :

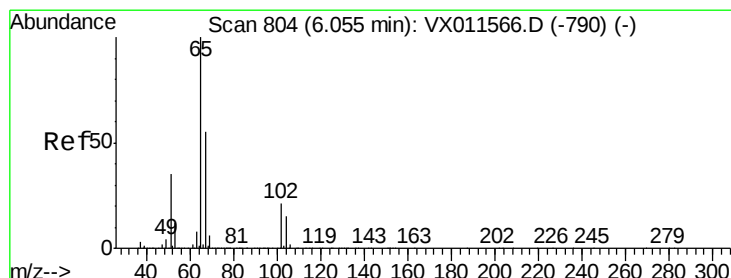
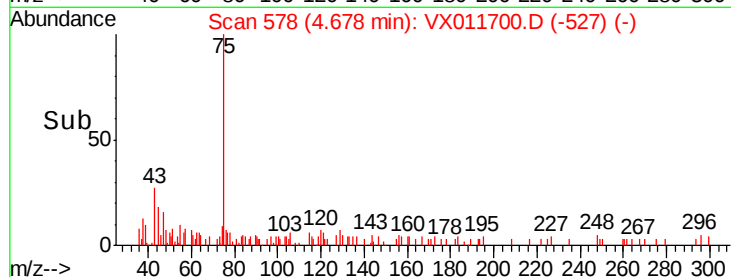
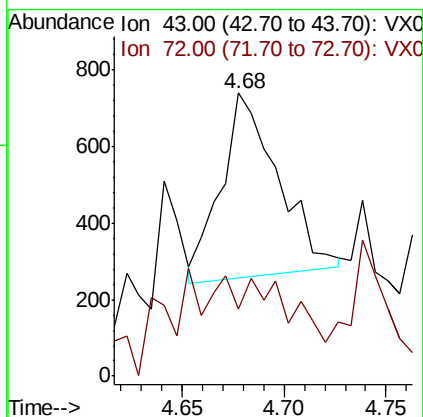
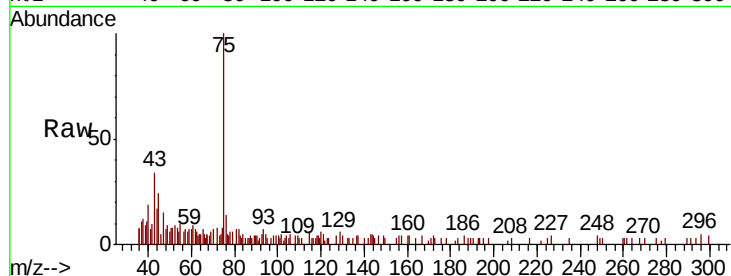
T6-B-(0)

Tgt Ion: 43 Resp: 937

Ion Ratio Lower Upper

43 100

72 7.5 22.2 33.4#



#33

1,2-Dichloroethane-d4

Concen: 59.860 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011700.D

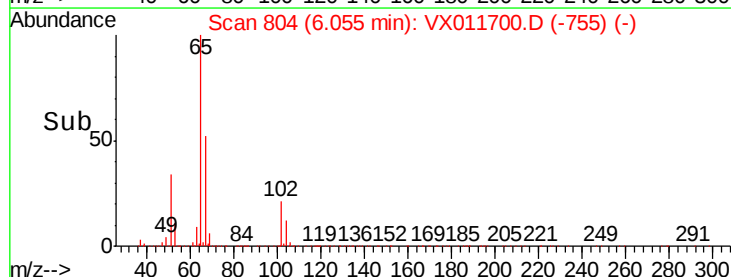
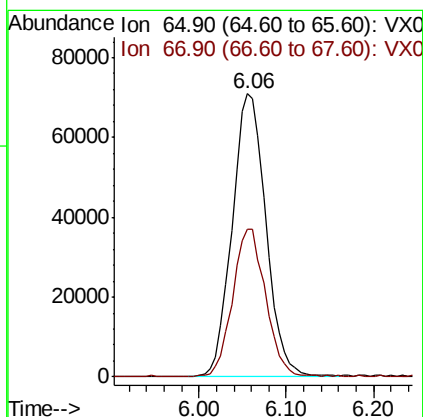
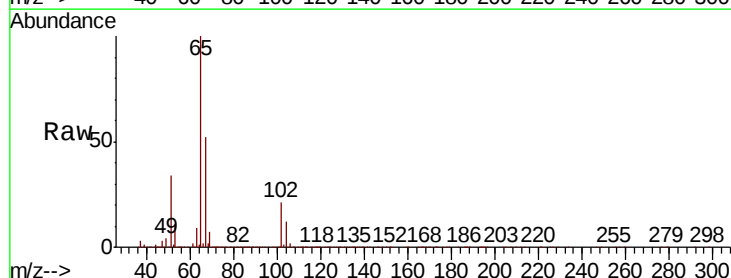
Acq: 20 Aug 2019 22:04

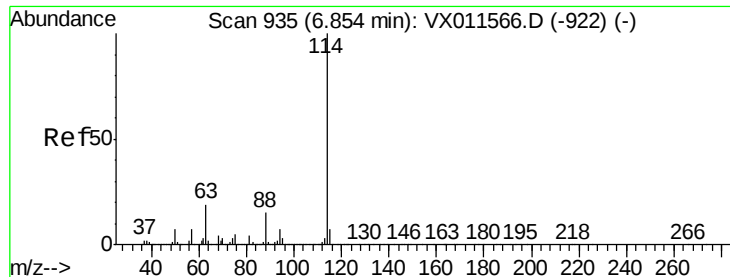
Tgt Ion: 65 Resp: 190357

Ion Ratio Lower Upper

65 100

67 51.0 0.0 107.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. 0.00 min

Lab File: VX011700.D

Acq: 20 Aug 2019 22:04

Instrument :

MSVOA_X

ClientSampleId :

T6-B-(0)

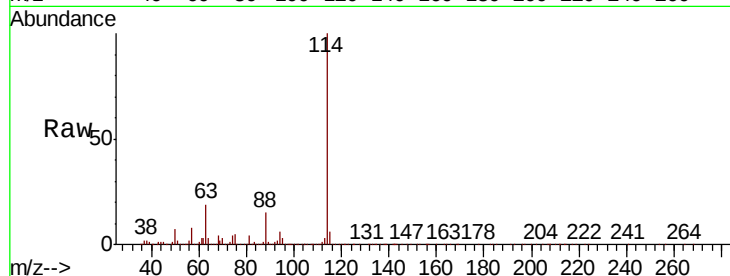
Tgt Ion:114 Resp: 520109

Ion Ratio Lower Upper

114 100

63 18.7 0.0 37.8

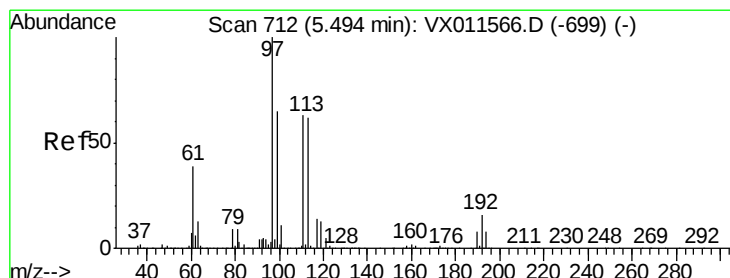
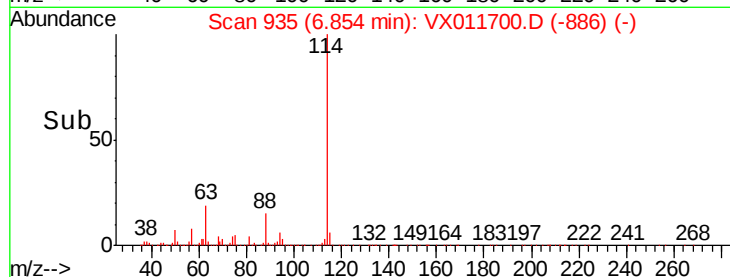
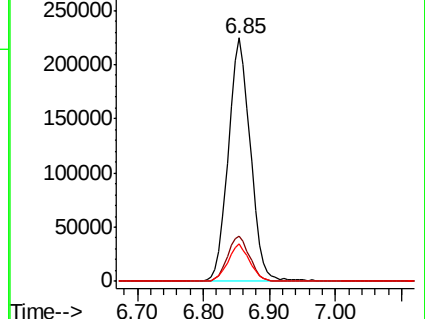
88 15.3 0.0 30.2



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: 44.238 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.00 min

Lab File: VX011700.D

Acq: 20 Aug 2019 22:04

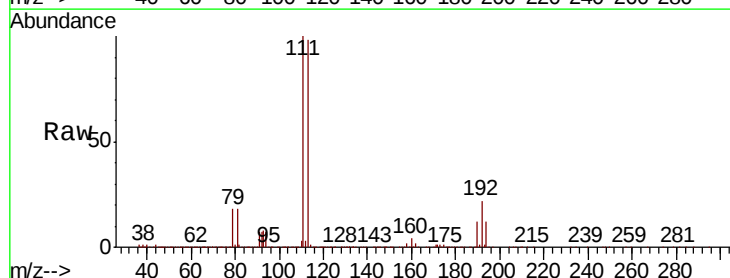
Tgt Ion:113 Resp: 150490

Ion Ratio Lower Upper

113 100

111 103.7 81.1 121.7

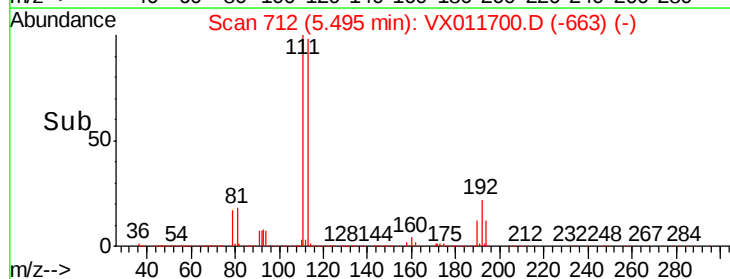
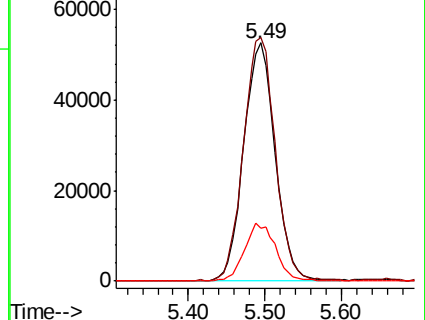
192 24.2 20.8 31.2

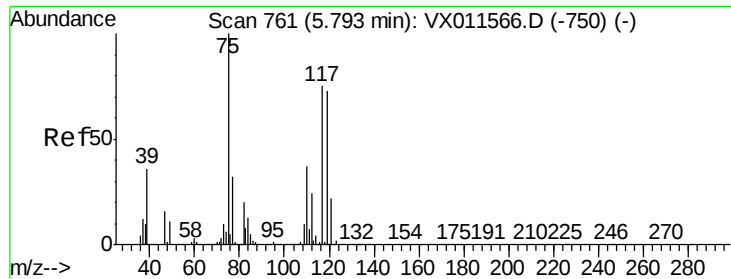


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.193 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011700.D

Acq: 20 Aug 2019 22:04

Instrument :

MSVOA_X

ClientSampled :

T6-B-(0)

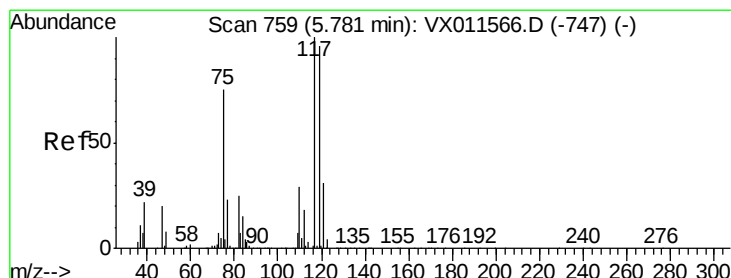
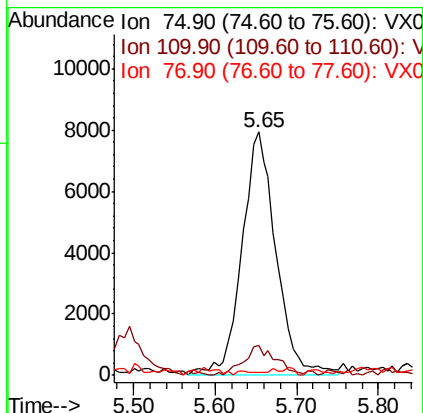
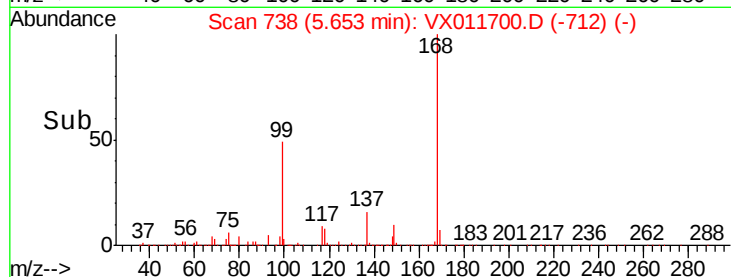
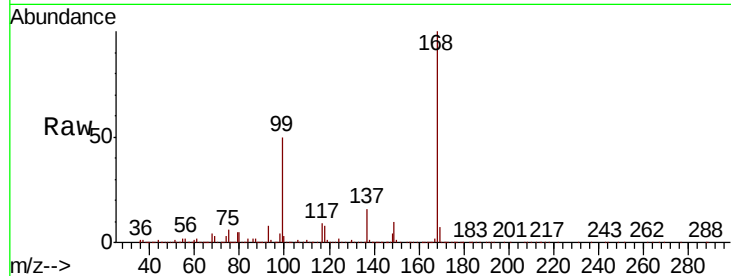
Tgt Ion: 75 Resp: 23091

Ion Ratio Lower Upper

75 100

110 11.3 19.4 58.1#

77 0.9 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 6.571 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX011700.D

Acq: 20 Aug 2019 22:04

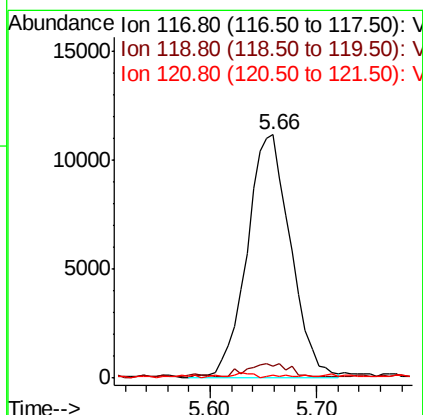
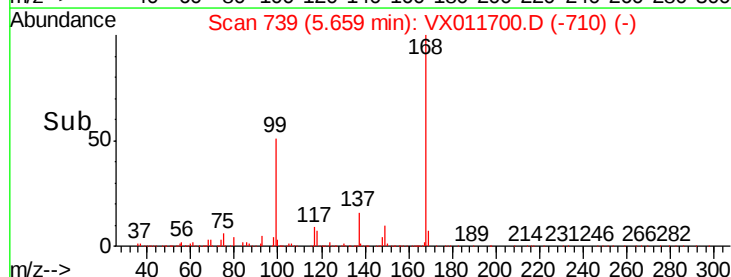
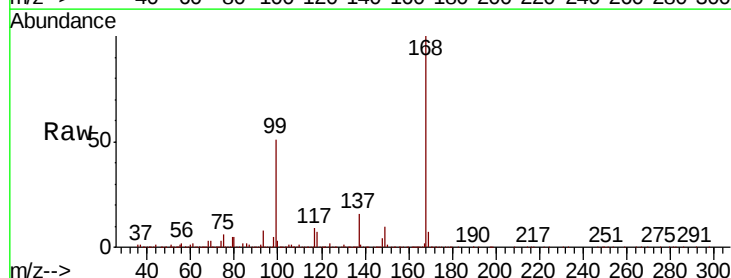
Tgt Ion: 117 Resp: 32192

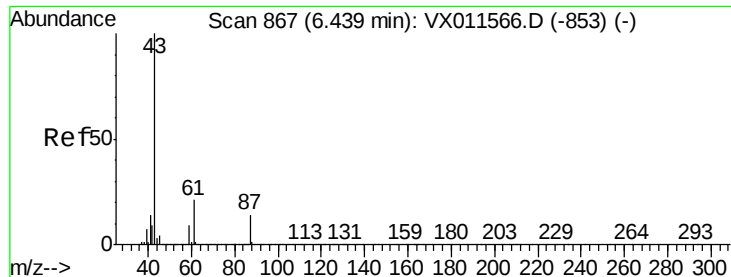
Ion Ratio Lower Upper

117 100

119 4.0 76.9 115.3#

121 0.6 24.8 37.2#





#43

Isopropyl Acetate

Concen: 7.198 ug/l

RT: 6.44 min Scan# 867

Delta R.T. 0.00 min

Lab File: VX011700.D

Acq: 20 Aug 2019 22:04

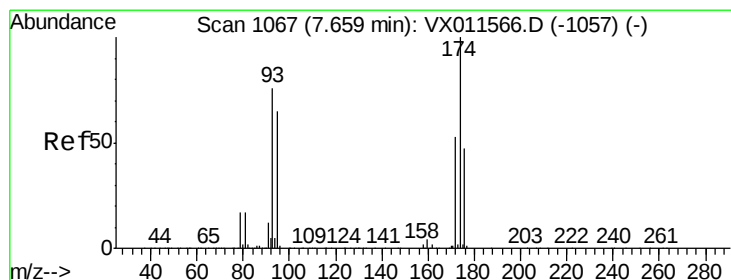
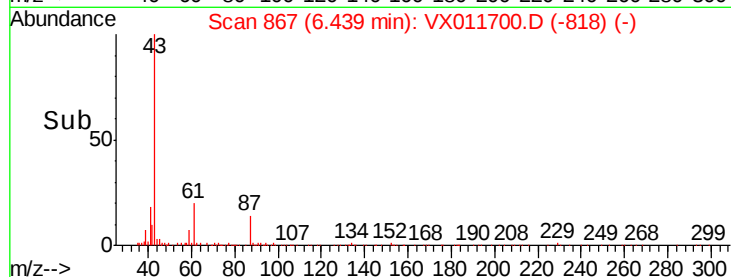
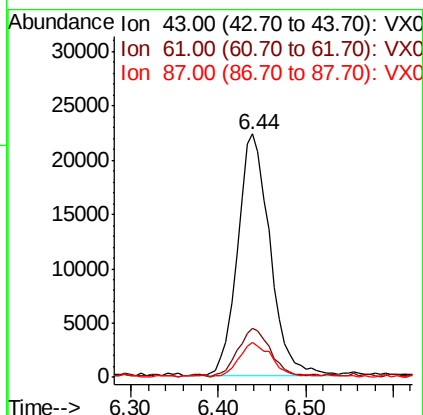
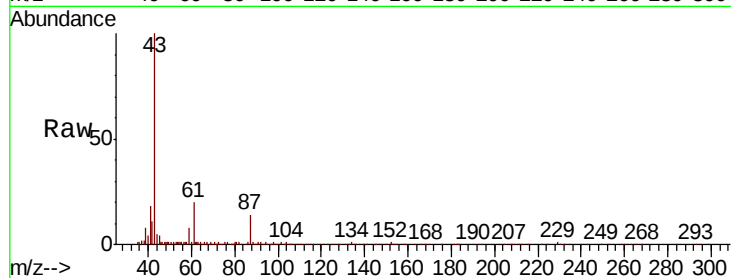
Instrument :

MSVOA_X

ClientSampleId :

T6-B-(0)

Tgt Ion:	43	Resp:	57455
Ion	Ratio	Lower	Upper
43	100		
61	19.9	16.6	24.8
87	14.0	11.4	17.2



#46

Dibromomethane

Concen: 0.207 ug/l

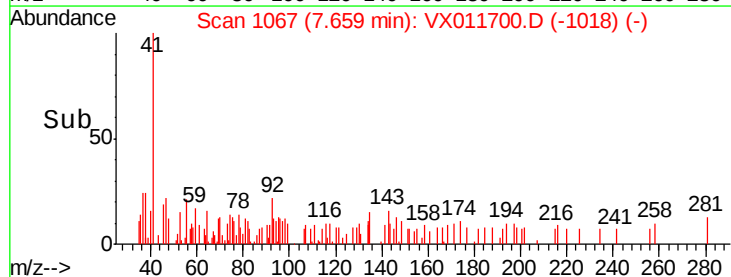
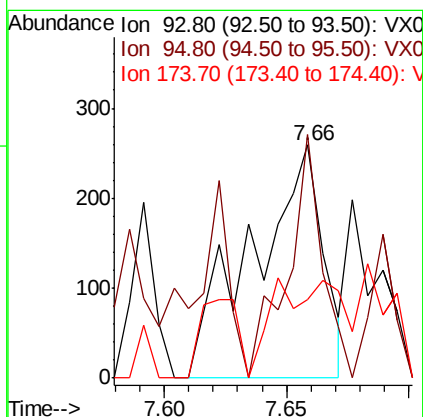
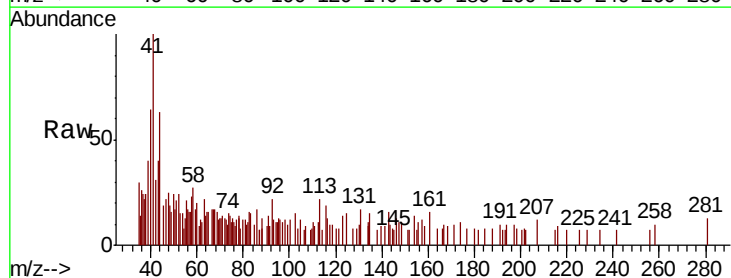
RT: 7.66 min Scan# 1067

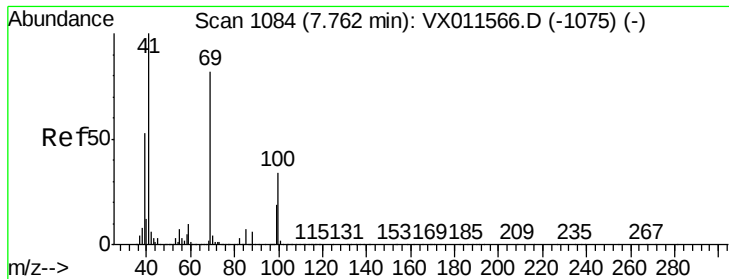
Delta R.T. 0.00 min

Lab File: VX011700.D

Acq: 20 Aug 2019 22:04

Tgt Ion:	93	Resp:	519
Ion	Ratio	Lower	Upper
93	100		
95	51.8	67.2	100.8#
174	41.4	105.5	158.3#

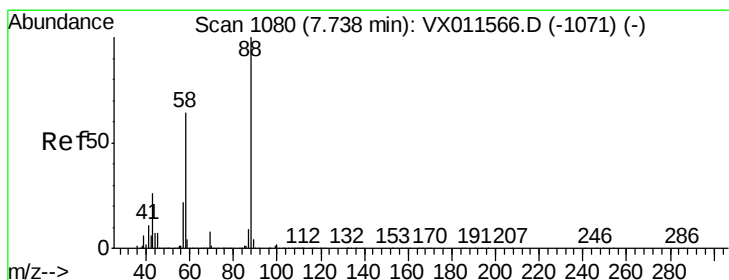
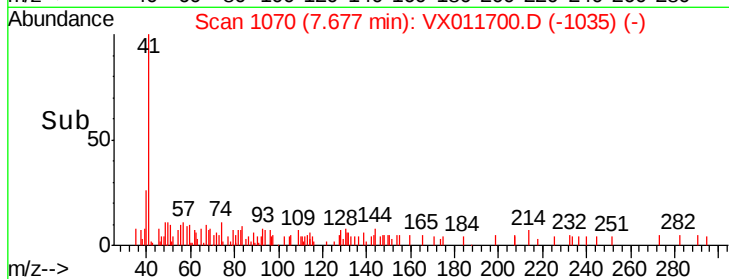
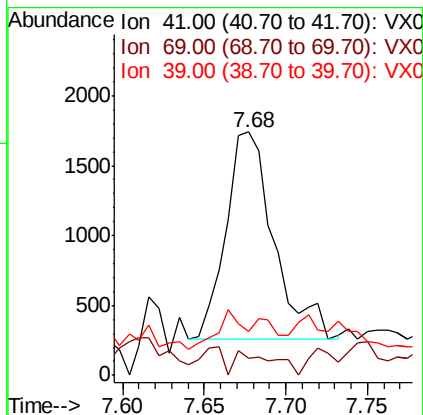
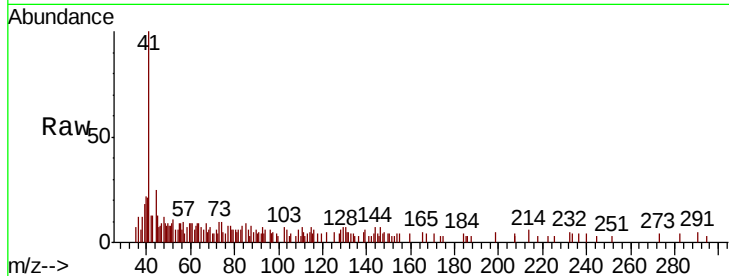




#48
Methyl methacrylate
Concen: 0.769 ug/l
RT: 7.68 min Scan# 1070
Delta R.T. -0.09 min
Lab File: VX011700.D
Acq: 20 Aug 2019 22:04

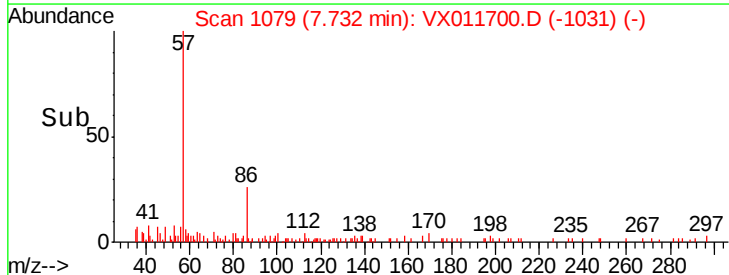
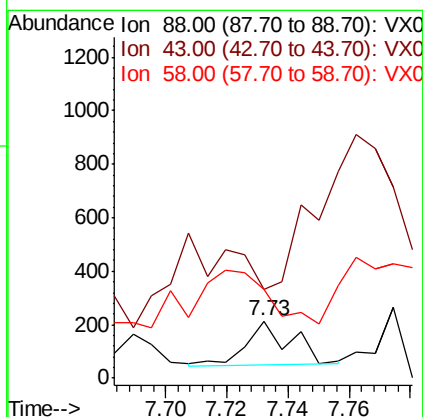
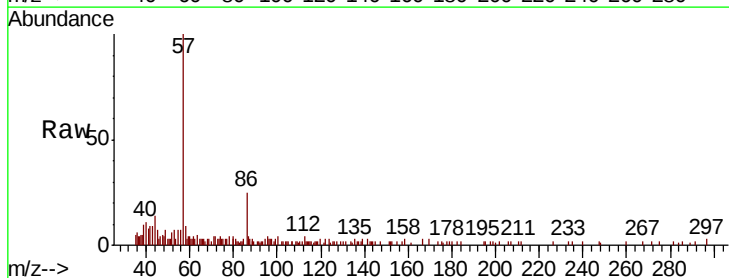
Instrument :
MSVOA_X
ClientSampleId :
T6-B-(0)

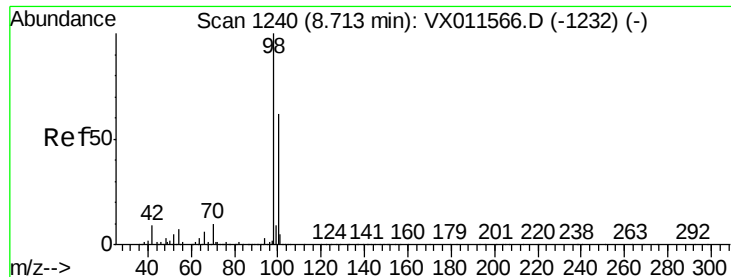
Tgt Ion: 41 Resp: 3040
Ion Ratio Lower Upper
41 100
69 9.2 67.9 101.9#
39 0.0 41.6 62.4#



#49
1,4-Dioxane
Concen: 1.550 ug/l
RT: 7.73 min Scan# 1079
Delta R.T. -0.01 min
Lab File: VX011700.D
Acq: 20 Aug 2019 22:04

Tgt Ion: 88 Resp: 163
Ion Ratio Lower Upper
88 100
43 0.0 23.4 35.0#
58 746.6 54.3 81.5#





#50

Toluene-d8

Concen: 57.259 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011700.D

Acq: 20 Aug 2019 22:04

Instrument :

MSVOA_X

ClientSampleId :

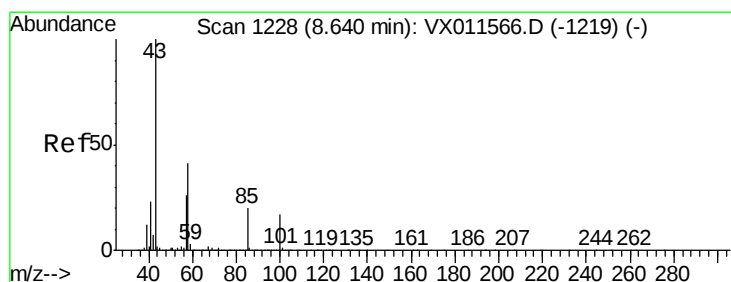
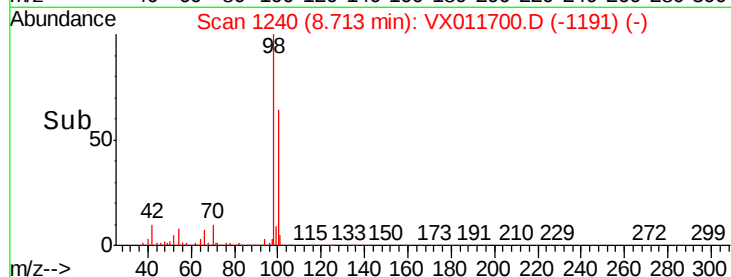
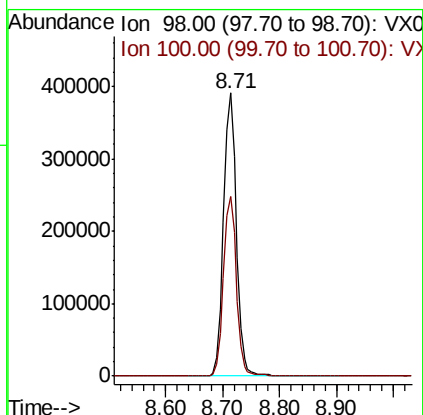
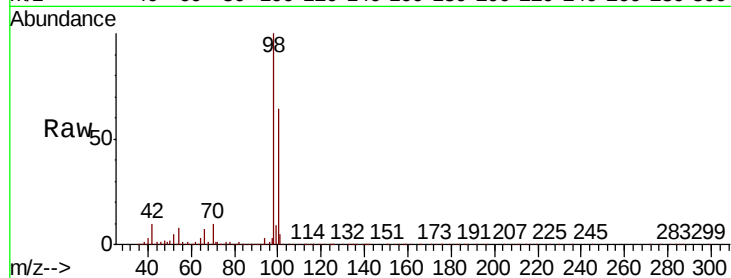
T6-B-(0)

Tgt Ion: 98 Resp: 606928

Ion Ratio Lower Upper

98 100

100 64.2 52.4 78.6



#51

4-Methyl-2-Pentanone

Concen: 10.806 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011700.D

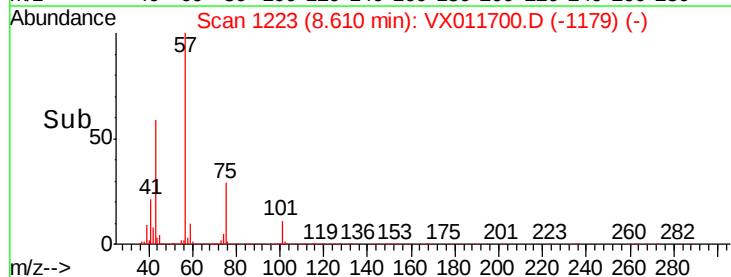
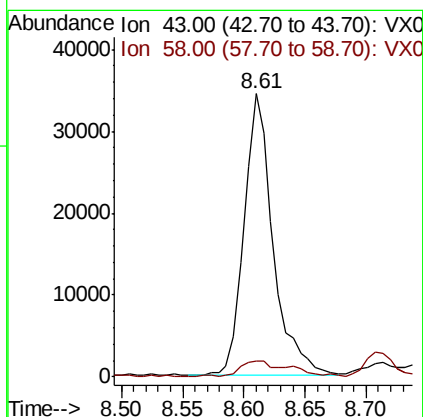
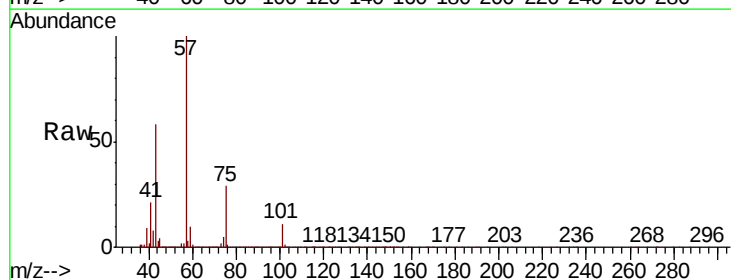
Acq: 20 Aug 2019 22:04

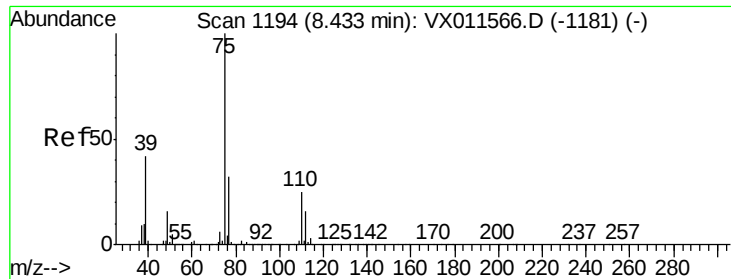
Tgt Ion: 43 Resp: 56459

Ion Ratio Lower Upper

43 100

58 5.9 31.8 47.6#



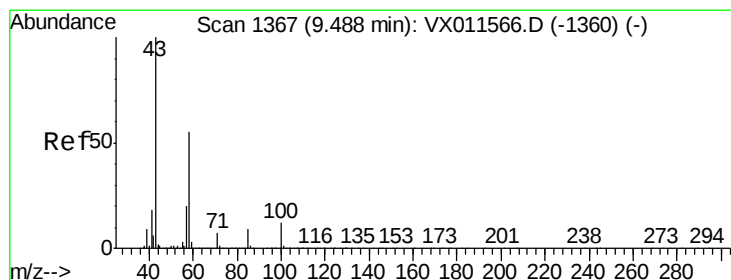
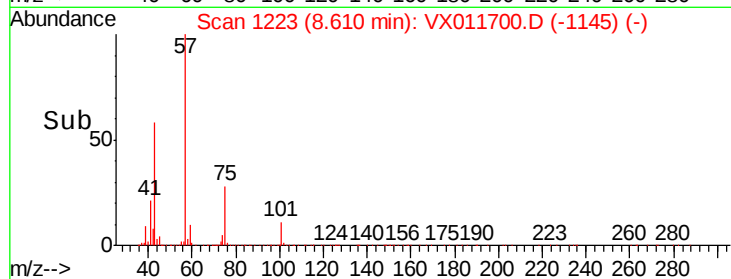
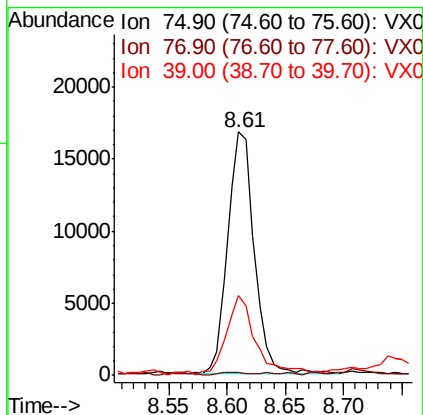
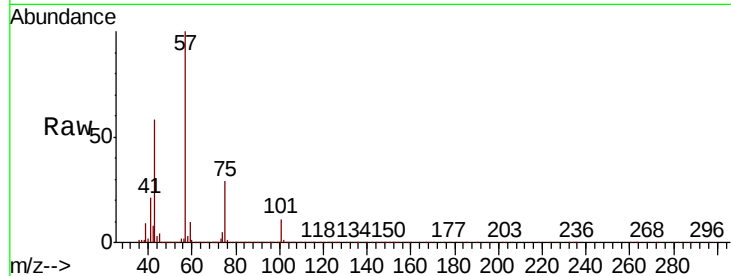


#54

cis-1,3-Dichloropropene
 Concen: 5.118 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011700.D
 Acq: 20 Aug 2019 22:04

Instrument :
 MSVOA_X
 ClientSampleId :
 T6-B-(0)

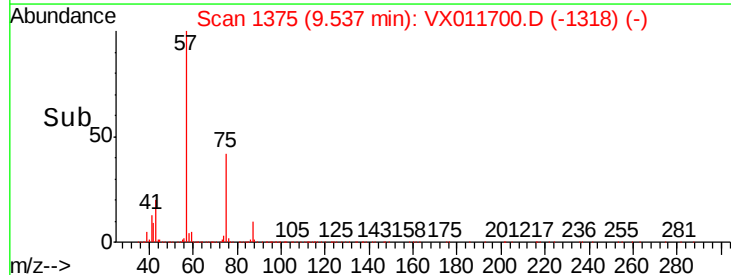
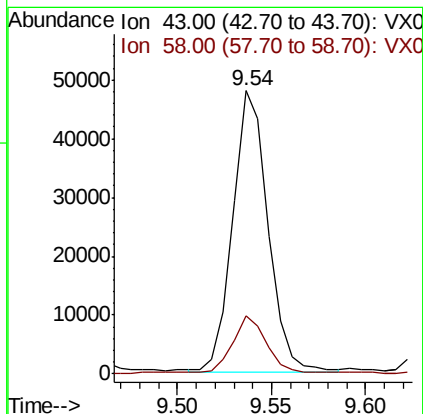
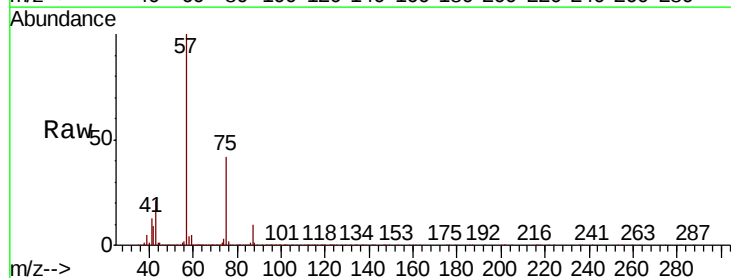
Tgt Ion: 75 Resp: 26730
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.5 38.3#
 39 31.0 33.6 50.4#

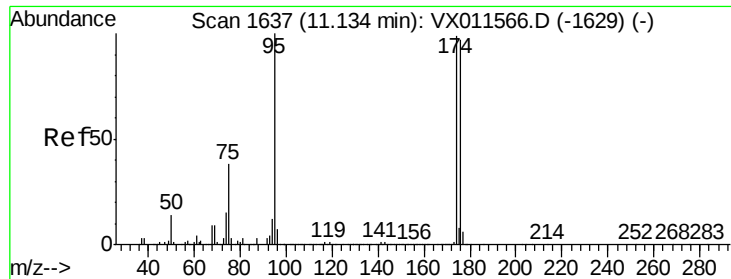


#59

2-Hexanone
 Concen: 15.535 ug/l
 RT: 9.54 min Scan# 1375
 Delta R.T. 0.05 min
 Lab File: VX011700.D
 Acq: 20 Aug 2019 22:04

Tgt Ion: 43 Resp: 62592
 Ion Ratio Lower Upper
 43 100
 58 20.6 27.5 82.4#





#62

4-Bromofluorobenzene

Concen: 49.173 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011700.D

Acq: 20 Aug 2019 22:04

Instrument :

MSVOA_X

ClientSampleId :

T6-B-(0)

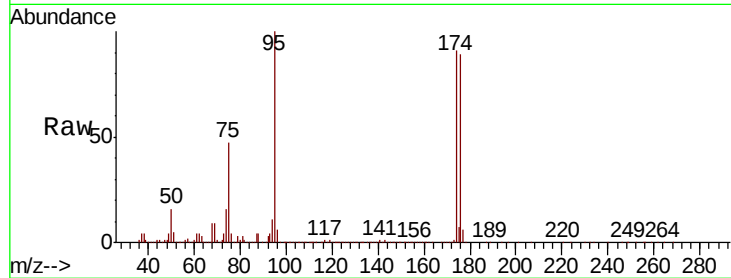
Tgt Ion: 95 Resp: 219998

Ion Ratio Lower Upper

95 100

174 96.9 0.0 200.6

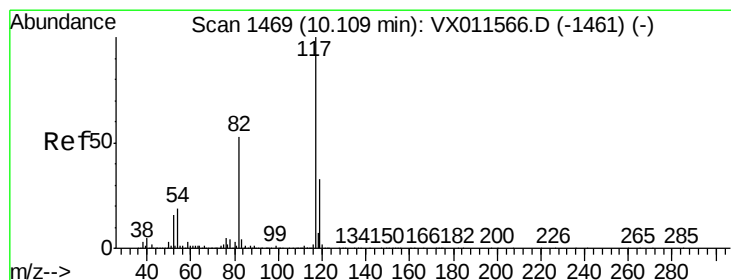
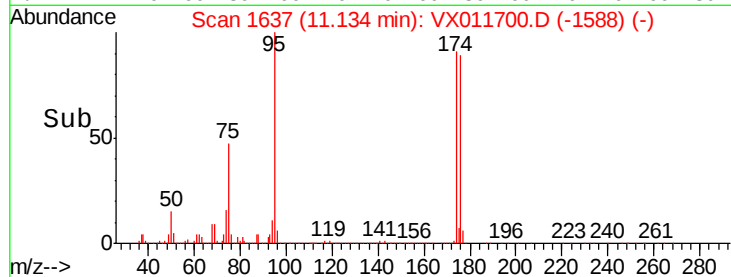
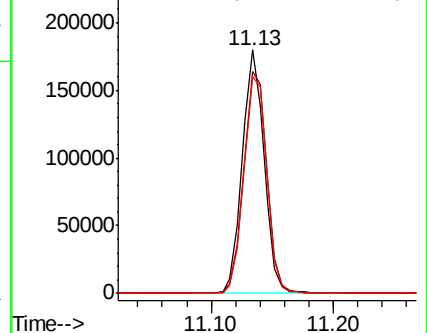
176 94.5 0.0 196.6



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# 1469

Delta R.T. 0.00 min

Lab File: VX011700.D

Acq: 20 Aug 2019 22:04

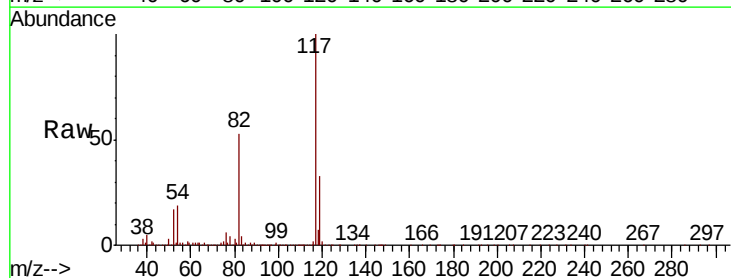
Tgt Ion: 117 Resp: 483868

Ion Ratio Lower Upper

117 100

82 53.2 42.0 63.0

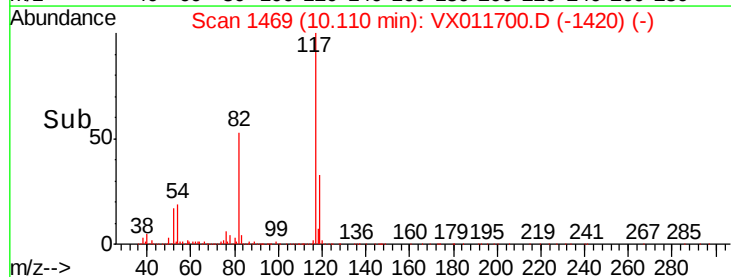
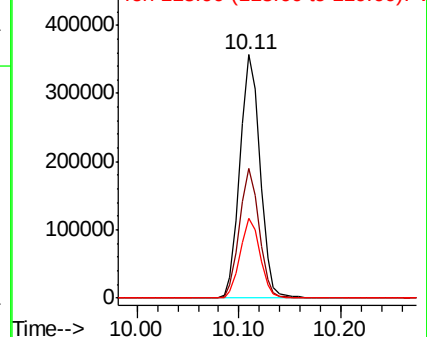
119 32.8 26.5 39.7

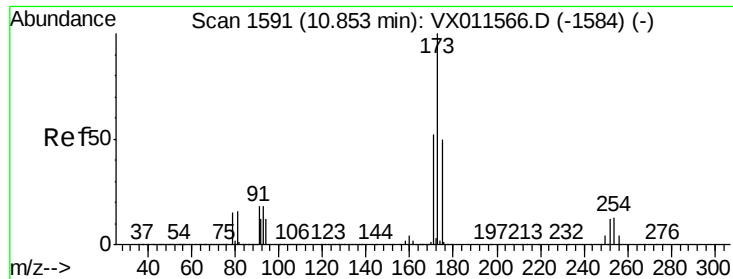


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

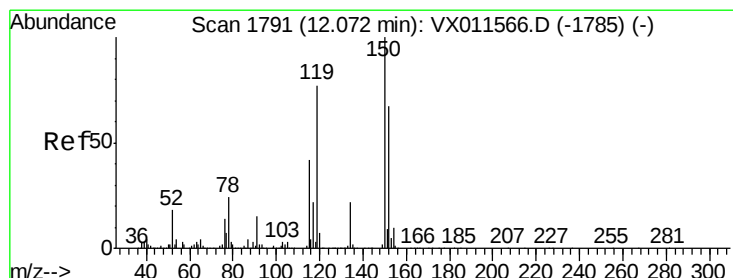
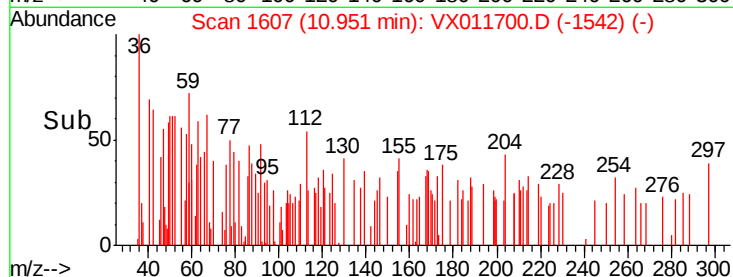
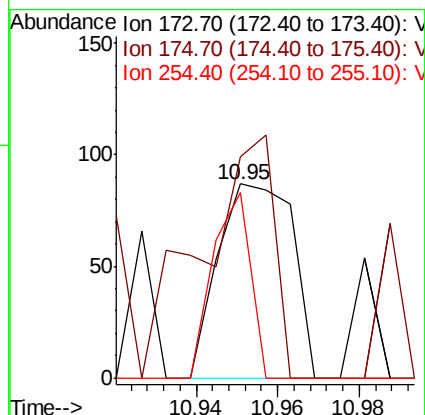
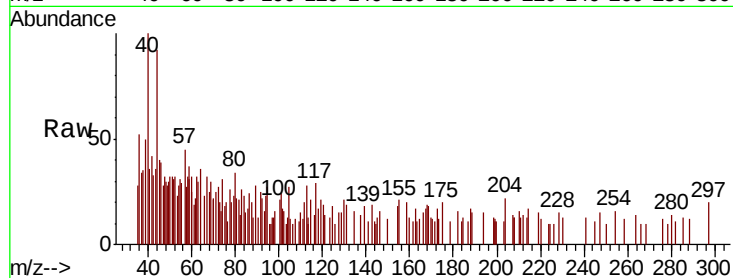




#71
Bromoform
Concen: 3.319 ug/l
RT: 10.95 min Scan# 1607
Delta R.T. 0.10 min
Lab File: VX011700.D
Acq: 20 Aug 2019 22:04

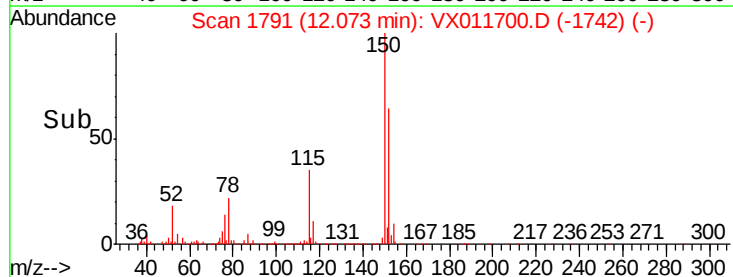
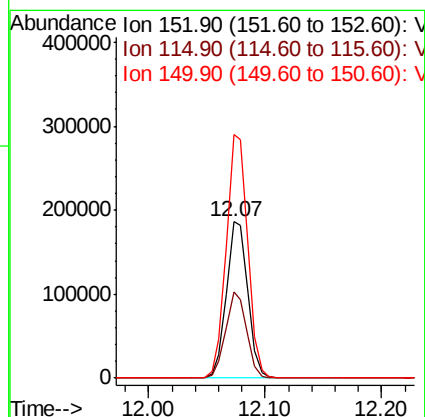
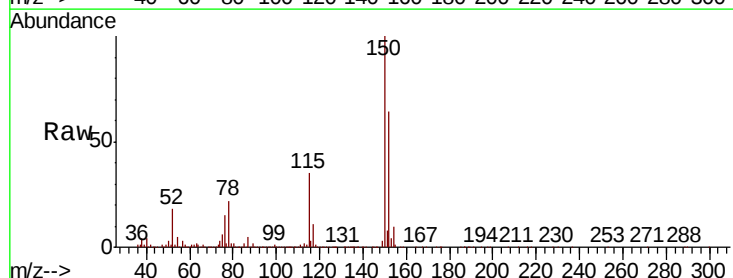
Instrument :
MSVOA_X
ClientSampled :
T6-B-(0)

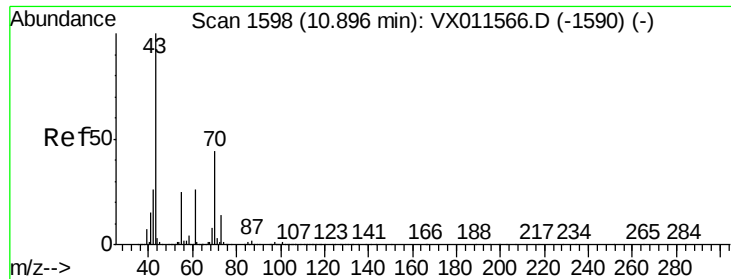
Tgt Ion:173 Resp: 110
Ion Ratio Lower Upper
173 100
175 0.0 24.9 74.7#
254 48.2 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. 0.00 min
Lab File: VX011700.D
Acq: 20 Aug 2019 22:04

Tgt Ion:152 Resp: 235845
Ion Ratio Lower Upper
152 100
115 53.9 37.3 111.9
150 156.1 0.0 346.2





#74

N-ethyl acetate

Concen: 0.452 ug/l

RT: 10.82 min Scan# 1586

Delta R.T. -0.07 min

Lab File: VX011700.D

Acq: 20 Aug 2019 22:04

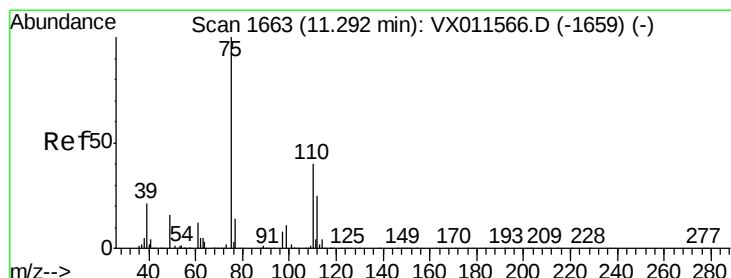
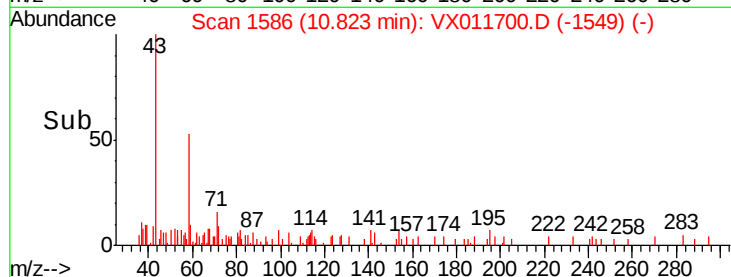
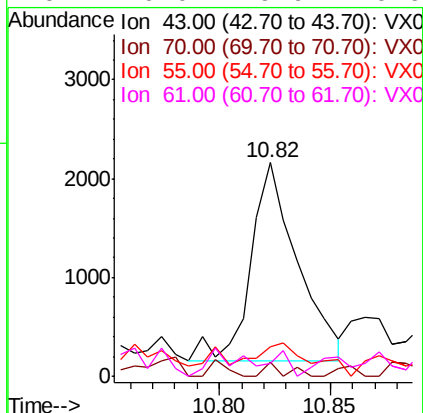
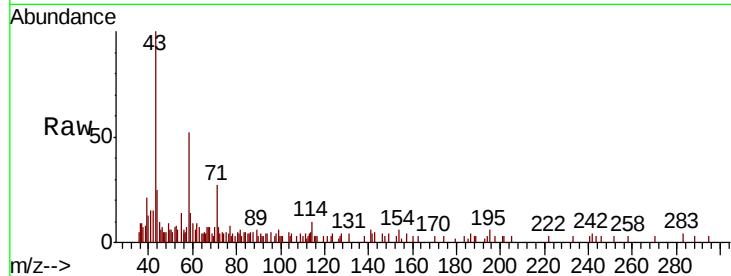
Instrument :

MSVOA_X

ClientSampleId :

T6-B-(0)

Tgt Ion:	43	Resp:	2940
Ion	Ratio	Lower	Upper
43	100		
70	3.0	34.7	52.1#
55	18.4	19.6	29.4#
61	0.0	19.9	29.9#



#76

1,2,3-Trichloropropane

Concen: 23.207 ug/l

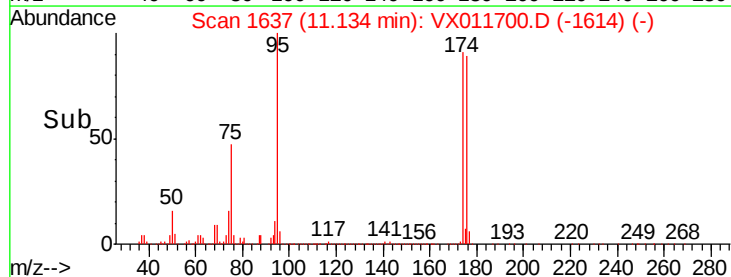
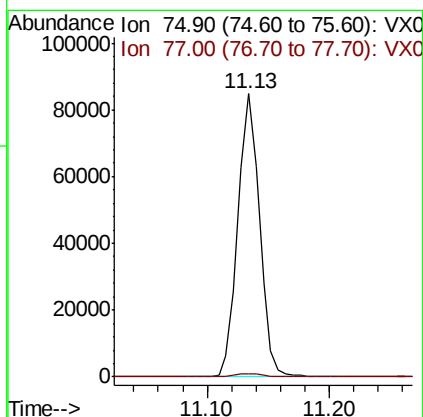
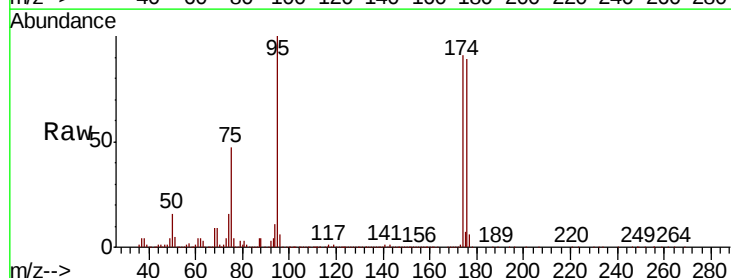
RT: 11.13 min Scan# 1637

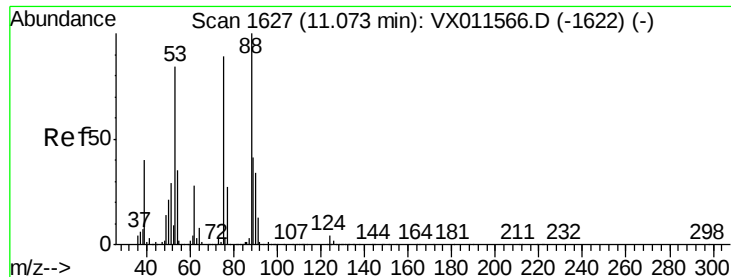
Delta R.T. -0.16 min

Lab File: VX011700.D

Acq: 20 Aug 2019 22:04

Tgt Ion:	75	Resp:	103784
Ion	Ratio	Lower	Upper
75	100		
77	1.6	20.9	62.8#

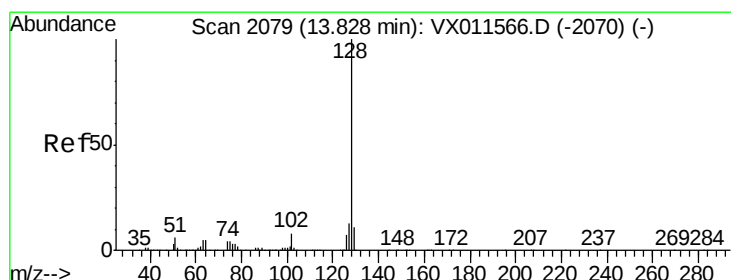
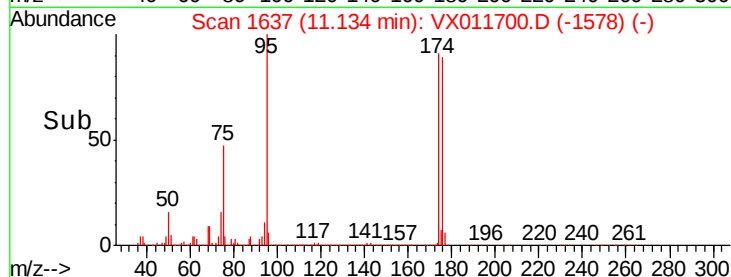
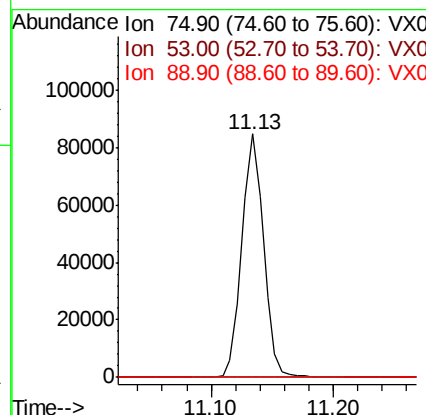
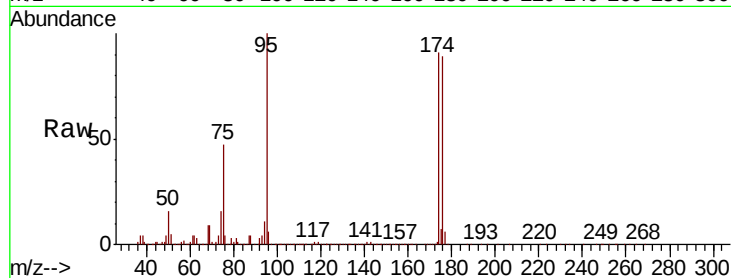




#81
trans-1,4-Dichloro-2-butene
Concen: 61.711 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX011700.D
Acq: 20 Aug 2019 22:04

Instrument :
MSVOA_X
ClientSampled :
T6-B-(0)

Tgt Ion: 75 Resp: 103784
Ion Ratio Lower Upper
75 100
53 0.1 77.4 116.0#
89 0.0 37.3 55.9#



#95
Naphthalene
Concen: 0.368 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.01 min
Lab File: VX011700.D
Acq: 20 Aug 2019 22:04

Tgt Ion: 128 Resp: 6095
Ion Ratio Lower Upper
128 100
127 12.6 10.3 15.5
129 13.7 8.7 13.1#

