

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX082319\
 Data File : VX011806.D
 Acq On : 23 Aug 2019 18:24
 Operator : JC/SP
 Sample : K4472-21
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 T1-S1-(0)

Quant Time: Aug 26 01:57:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082219W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 23 01:48:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	479472	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	641202	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	577927	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	288130	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	207794	43.14	ug/l	0.00
Spiked Amount			Recovery	=	86.28%	
35) Dibromofluoromethane	5.49	113	187546	45.23	ug/l	0.00
Spiked Amount			Recovery	=	90.46%	
50) Toluene-d8	8.71	98	724898	50.12	ug/l	0.00
Spiked Amount			Recovery	=	100.24%	
62) 4-Bromofluorobenzene	11.13	95	246728	43.16	ug/l	0.00
Spiked Amount			Recovery	=	86.32%	

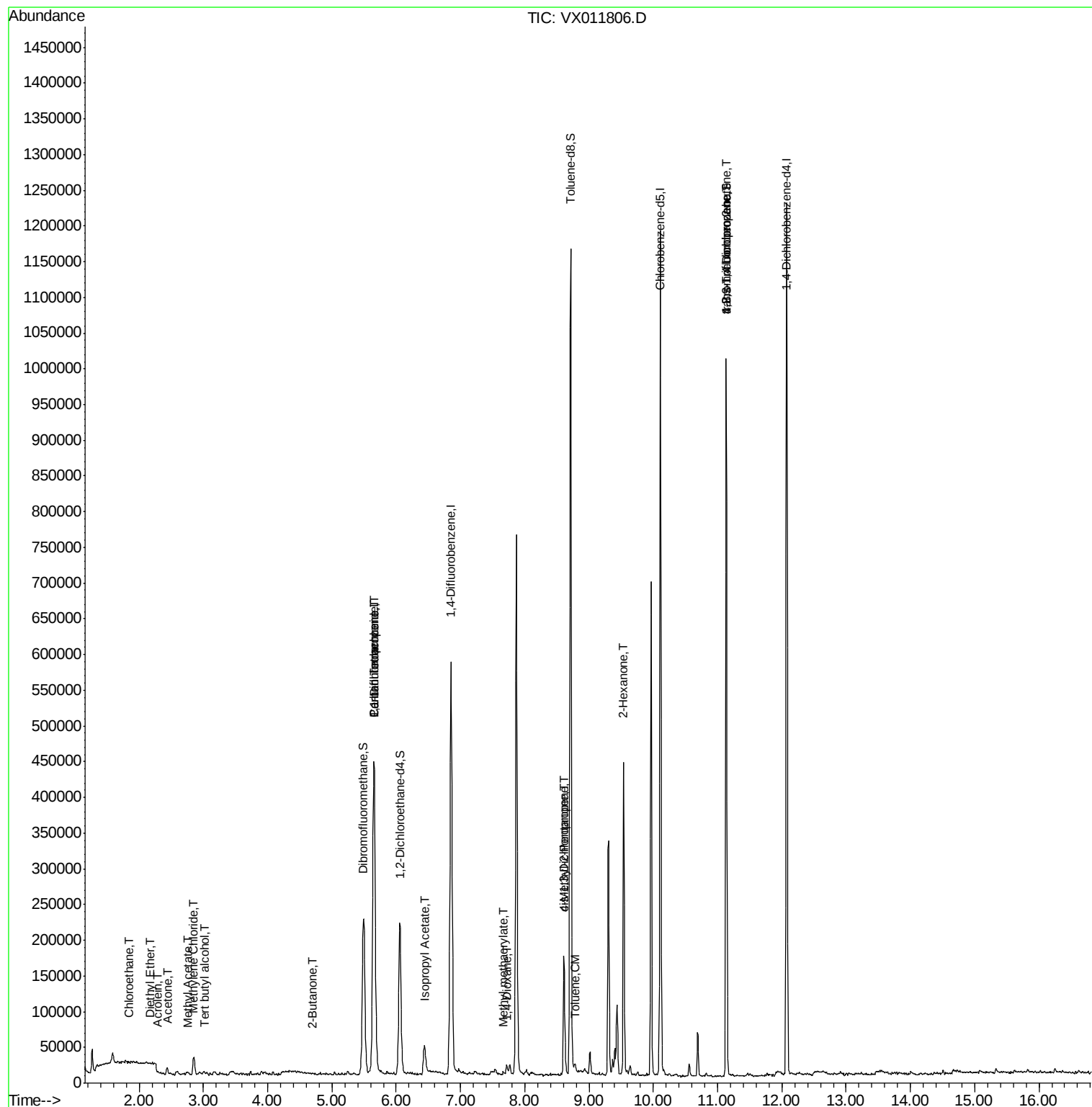
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.84	64	615	0.268	ug/l #	64
8) Diethyl Ether	2.18	74	883	0.416	ug/l	70
11) Tert butyl alcohol	3.01	59	1316	1.383	ug/l #	64
13) Acrolein	2.29	56	397	1.079	ug/l #	16
16) Acetone	2.43	43	10707	5.110	ug/l	96
18) Methyl Acetate	2.76	43	2776	0.488	ug/l #	73
20) Methylene Chloride	2.85	84	12864	3.003	ug/l	91
25) 2-Butanone	4.68	43	1701	0.566	ug/l #	80
36) 1,1-Dichloropropene	5.65	75	25912	5.153	ug/l #	54
38) Carbon Tetrachloride	5.65	117	39745	6.975	ug/l #	16
43) Isopropyl Acetate	6.44	43	51293	5.956	ug/l	97
48) Methyl methacrylate	7.67	41	3109	0.725	ug/l #	17
49) 1,4-Dioxane	7.73	88	217	1.827	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	55961	9.861	ug/l #	52
52) Toluene	8.78	92	2430	0.241	ug/l	90
54) cis-1,3-Dichloropropene	8.61	75	28767	4.841	ug/l #	58
59) 2-Hexanone	9.54	43	52632	12.084	ug/l #	50
76) 1,2,3-Trichloropropane	11.13	75	109391	21.637	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	109391	65.252	ug/l #	11

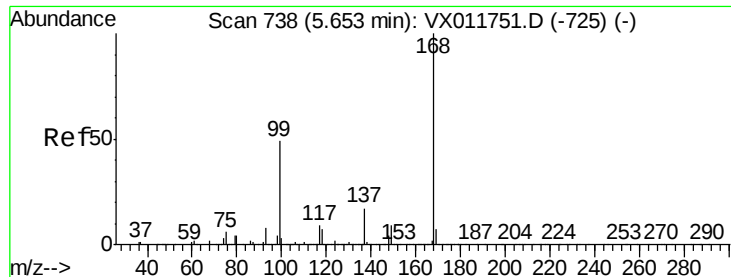
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.00 min

Lab File: VX011806.D

Acq: 23 Aug 2019 18:24

Instrument :

MSVOA_X

ClientSampleId :

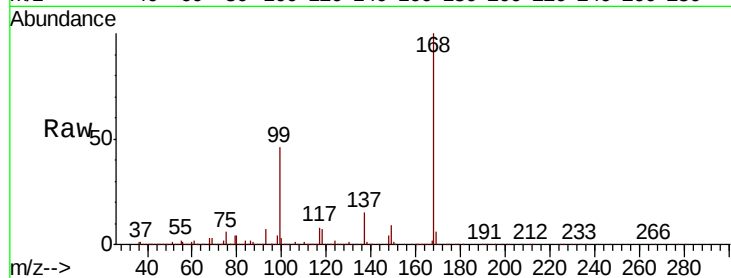
T1-S1-(0)

Tgt Ion:168 Resp: 479472

Ion Ratio Lower Upper

168 100

99 45.8 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

150000

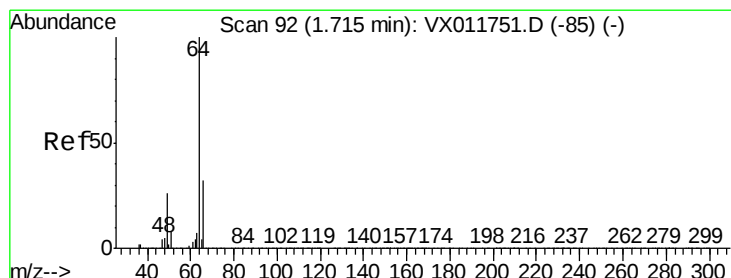
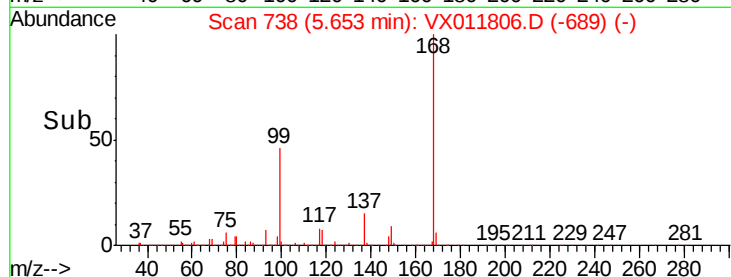
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: 0.268 ug/l

RT: 1.84 min Scan# 113

Delta R.T. 0.13 min

Lab File: VX011806.D

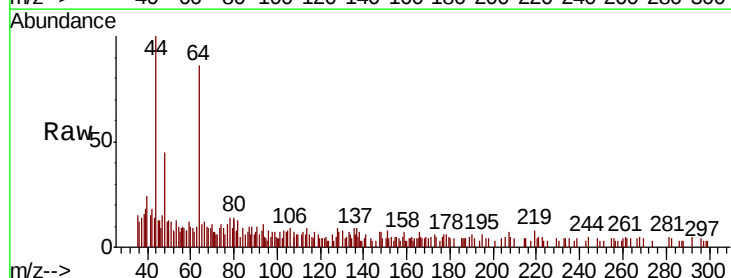
Acq: 23 Aug 2019 18:24

Tgt Ion: 64 Resp: 615

Ion Ratio Lower Upper

64 100

66 11.0 24.9 37.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.84

1500

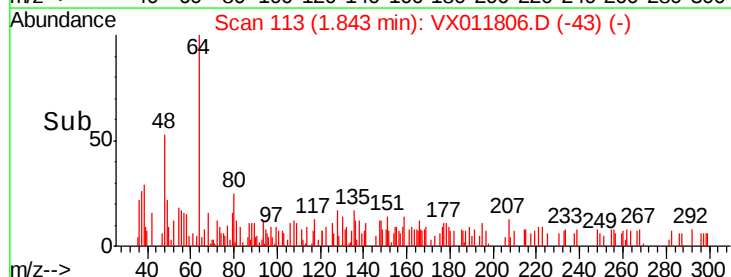
1000

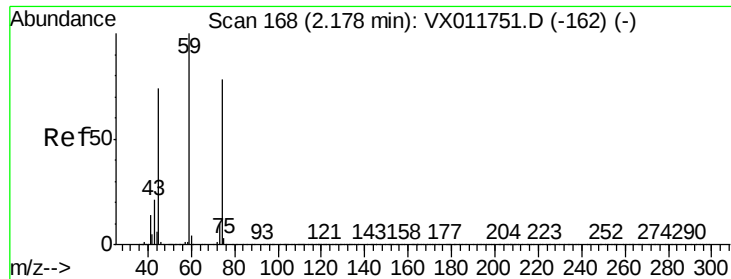
500

0

Time-->

1.82 1.84 1.86 1.88 1.90





#8

Diethyl Ether

Concen: 0.416 ug/l

RT: 2.18 min Scan# 168

Delta R.T. -0.00 min

Lab File: VX011806.D

Acq: 23 Aug 2019 18:24

Instrument :

MSVOA_X

ClientSampleId :

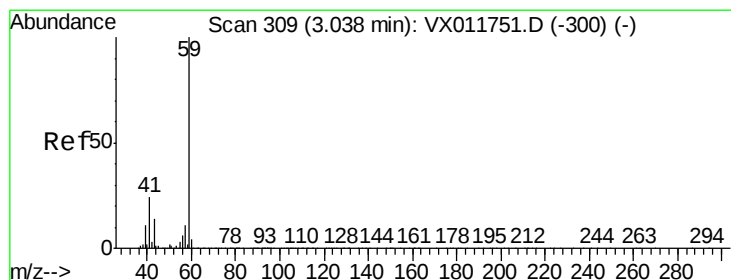
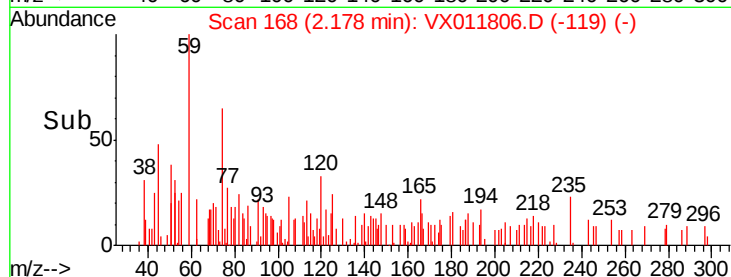
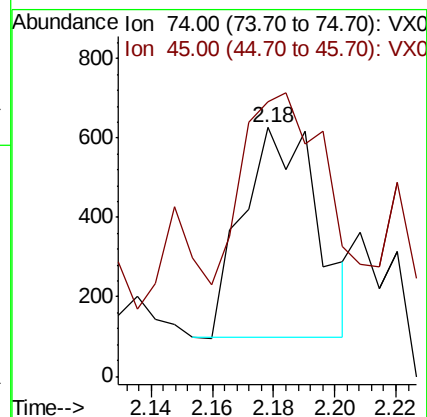
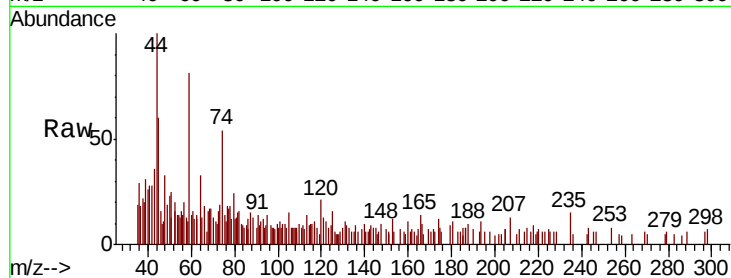
T1-S1-(0)

Tgt Ion: 74 Resp: 883

Ion Ratio Lower Upper

74 100

45 122.5 46.7 140.0



#11

Tert butyl alcohol

Concen: 1.383 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.02 min

Lab File: VX011806.D

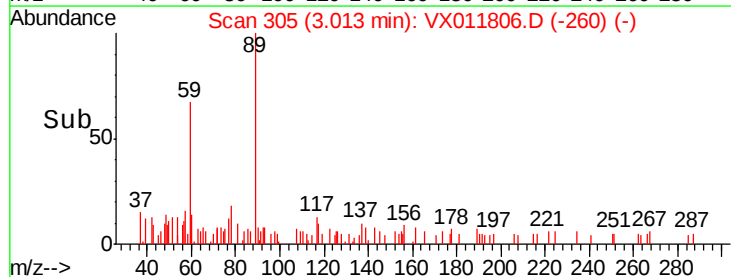
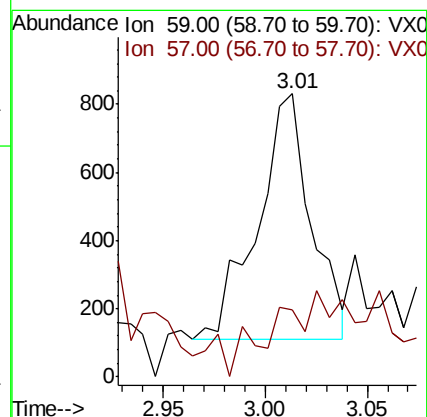
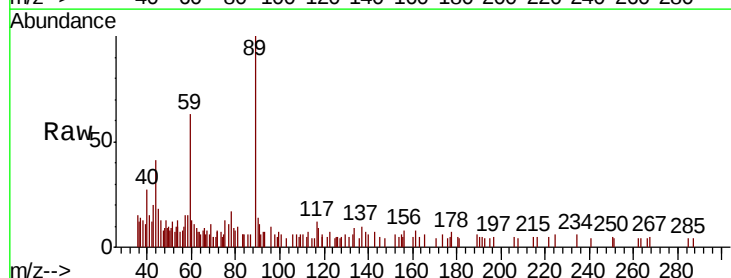
Acq: 23 Aug 2019 18:24

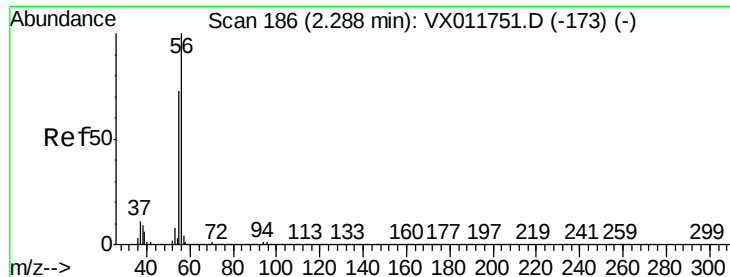
Tgt Ion: 59 Resp: 1316

Ion Ratio Lower Upper

59 100

57 23.9 8.4 12.6#





#13

Acrolein

Concen: 1.079 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.00 min

Lab File: VX011806.D

Acq: 23 Aug 2019 18:24

Instrument :

MSVOA_X

ClientSampled :

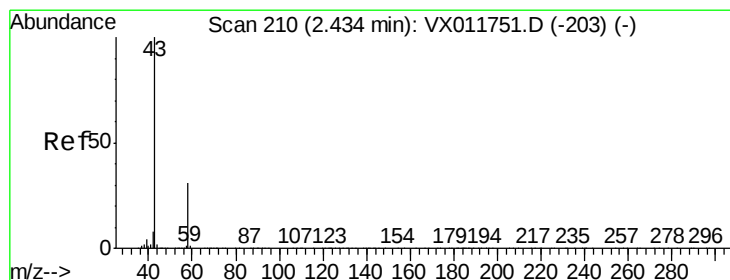
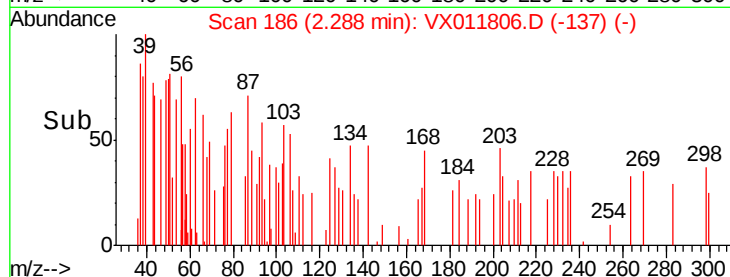
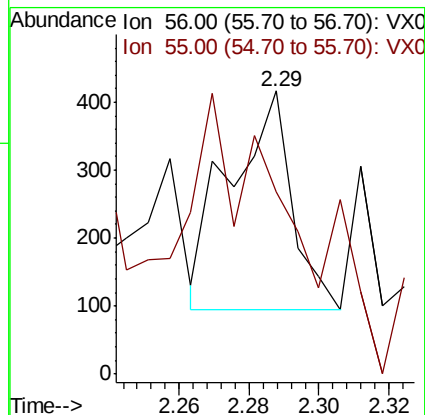
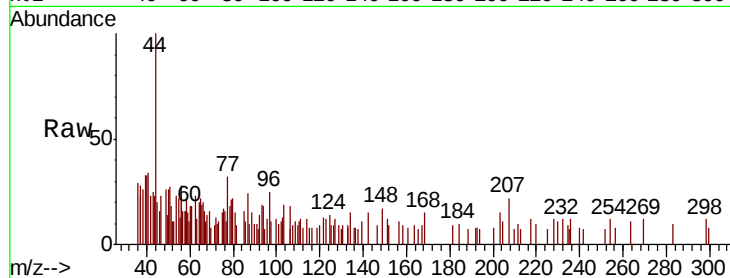
T1-S1-(0)

Tgt Ion: 56 Resp: 397

Ion Ratio Lower Upper

56 100

55 0.0 54.8 82.2#



#16

Acetone

Concen: 5.110 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX011806.D

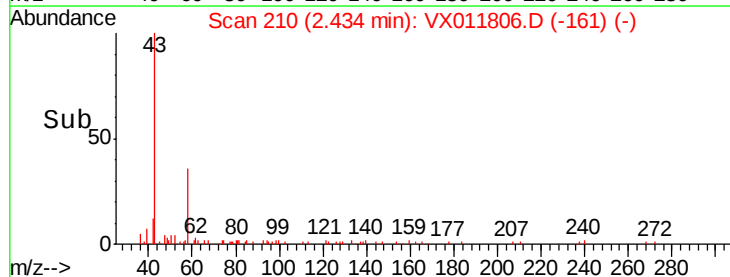
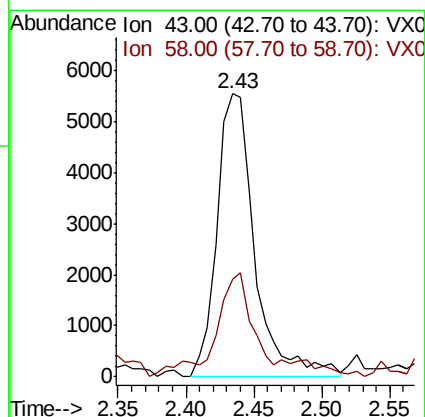
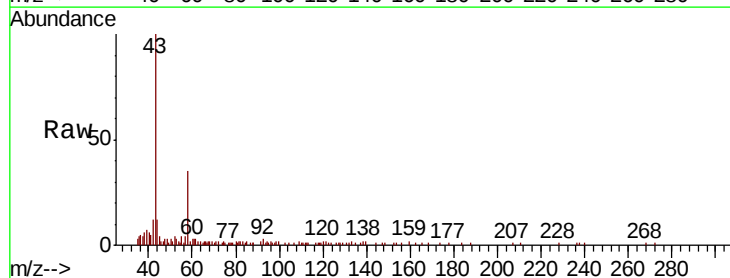
Acq: 23 Aug 2019 18:24

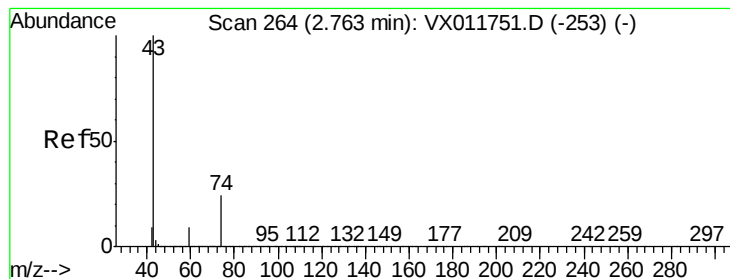
Tgt Ion: 43 Resp: 10707

Ion Ratio Lower Upper

43 100

58 32.9 24.4 36.6





#18

Methyl Acetate

Concen: 0.488 ug/l

RT: 2.76 min Scan# 264

Delta R.T. -0.00 min

Lab File: VX011806.D

Acq: 23 Aug 2019 18:24

Instrument :

MSVOA_X

ClientSampled :

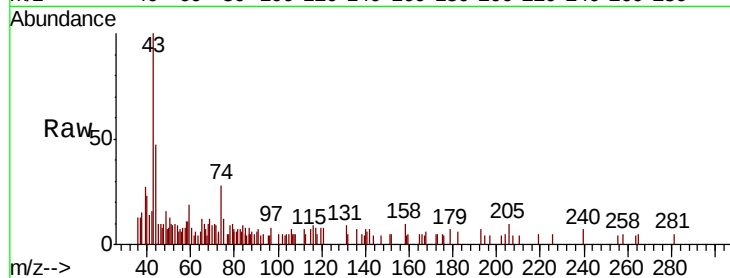
T1-S1-(0)

Tgt Ion: 43 Resp: 2776

Ion Ratio Lower Upper

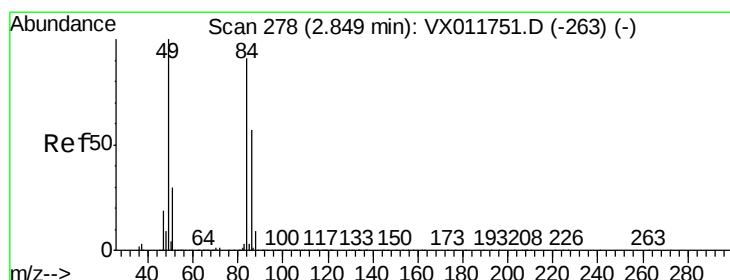
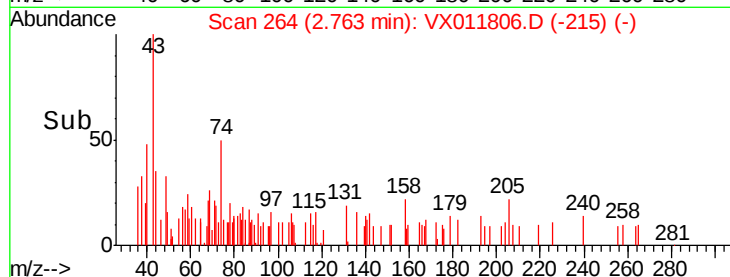
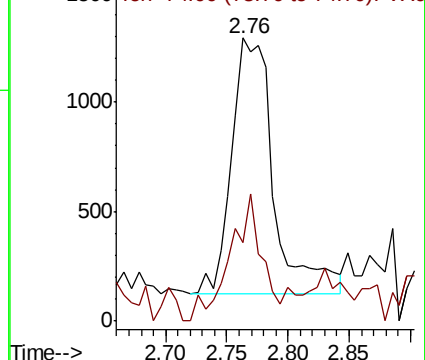
43 100

74 37.8 19.5 29.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#20

Methylene Chloride

Concen: 3.003 ug/l

RT: 2.85 min Scan# 279

Delta R.T. 0.01 min

Lab File: VX011806.D

Acq: 23 Aug 2019 18:24

Tgt Ion: 84 Resp: 12864

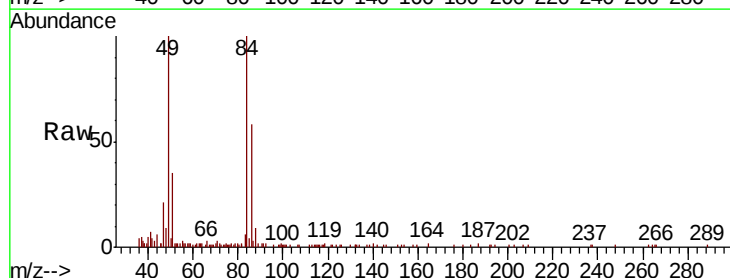
Ion Ratio Lower Upper

84 100

49 98.4 88.3 132.5

51 34.0 26.2 39.2

86 57.8 50.6 76.0

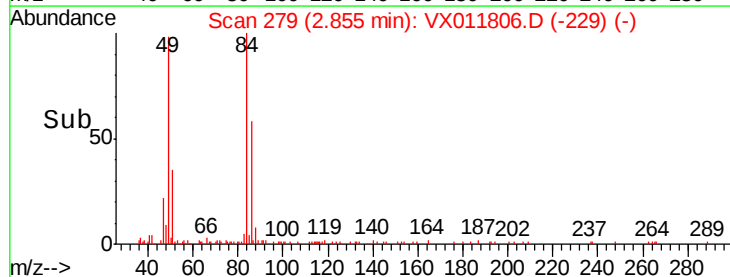
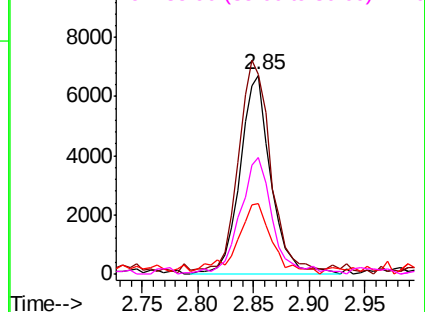


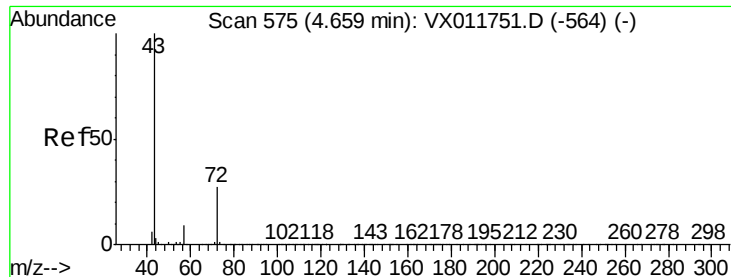
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#25

2-Butanone

Concen: 0.566 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.02 min

Lab File: VX011806.D

Acq: 23 Aug 2019 18:24

Instrument :

MSVOA_X

ClientSampled :

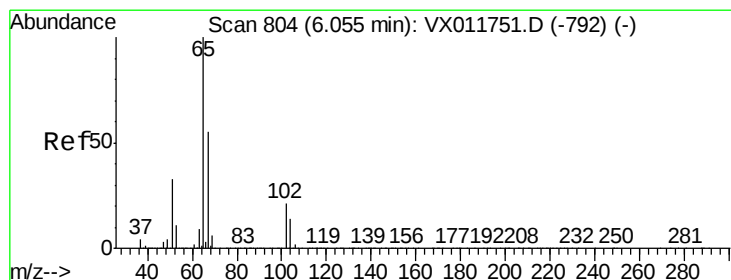
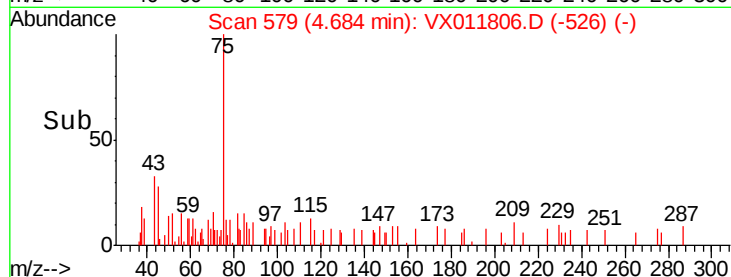
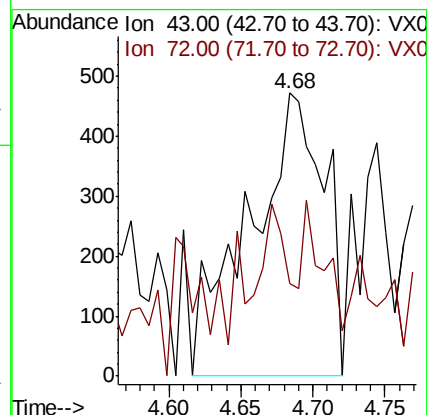
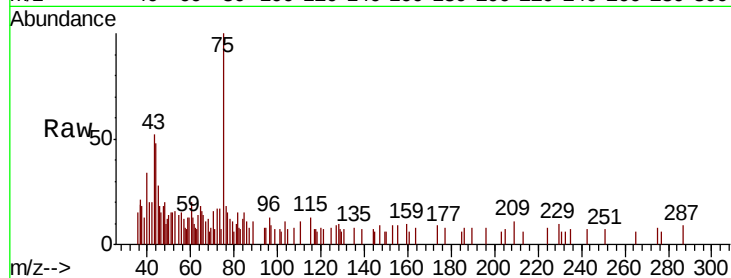
T1-S1-(0)

Tgt Ion: 43 Resp: 1701

Ion Ratio Lower Upper

43 100

72 16.9 21.8 32.6#



#33

1,2-Dichloroethane-d4

Concen: 43.141 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.00 min

Lab File: VX011806.D

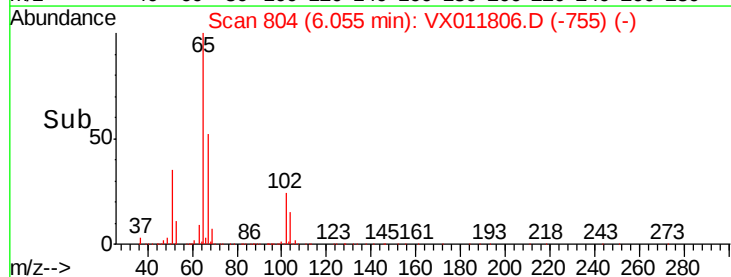
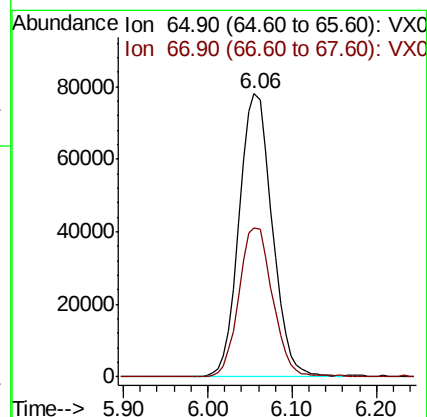
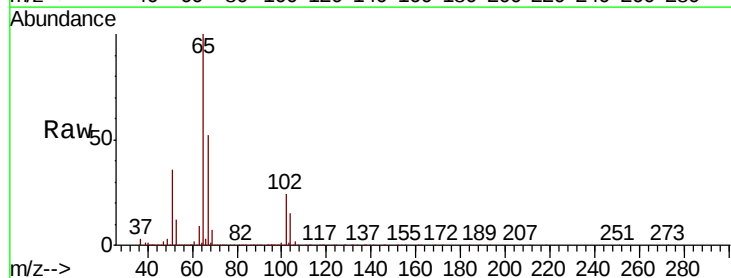
Acq: 23 Aug 2019 18:24

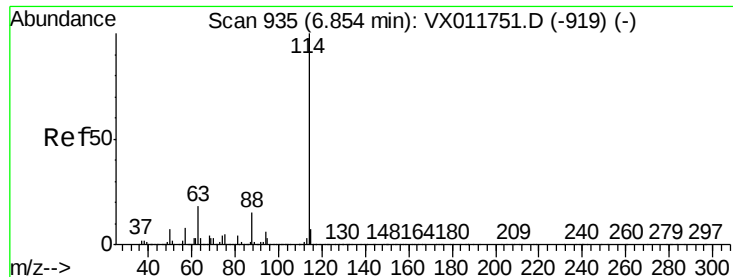
Tgt Ion: 65 Resp: 207794

Ion Ratio Lower Upper

65 100

67 53.0 0.0 107.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.00 min

Lab File: VX011806.D

Acq: 23 Aug 2019 18:24

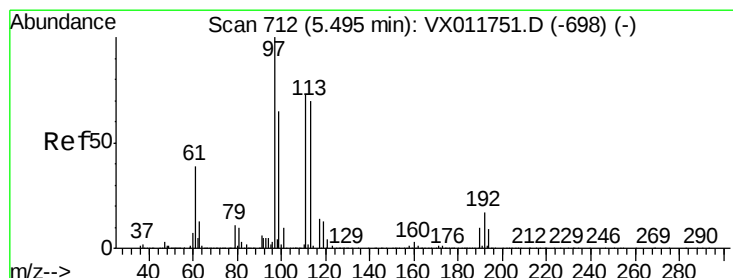
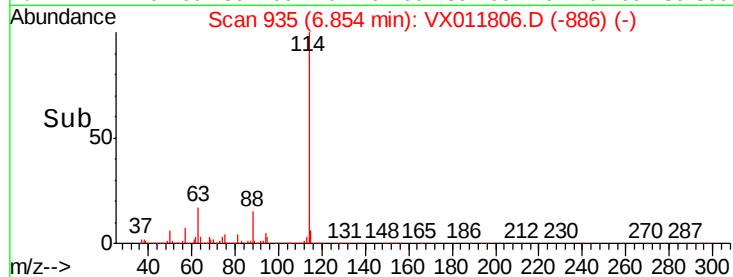
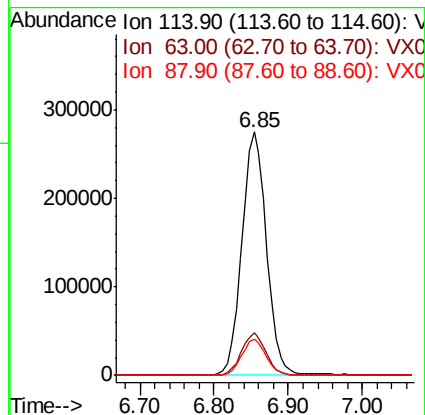
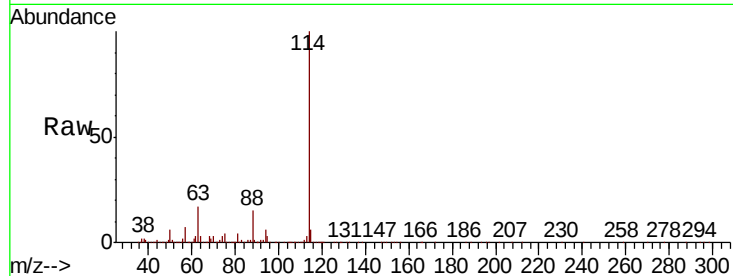
Instrument :

MSVOA_X

ClientSampleId :

T1-S1-(0)

Tgt Ion:	114	Resp:	641202
Ion	Ratio	Lower	Upper
114	100		
63	17.5	0.0	36.8
88	14.8	0.0	30.2



#35

Dibromofluoromethane

Concen: 45.232 ug/l

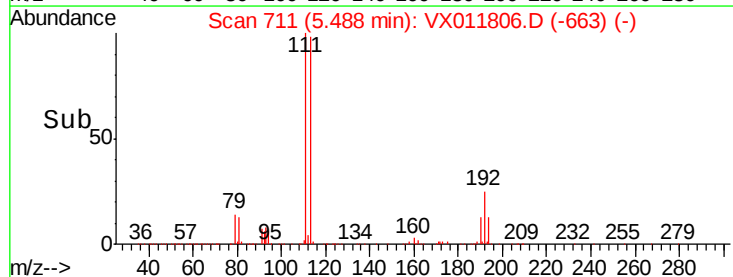
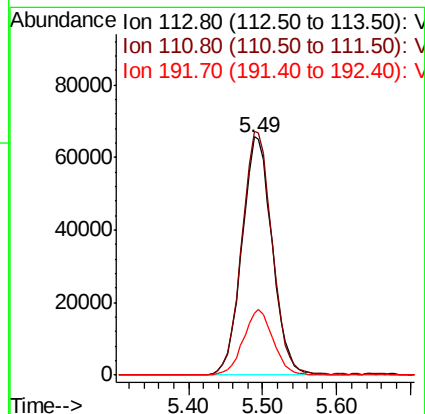
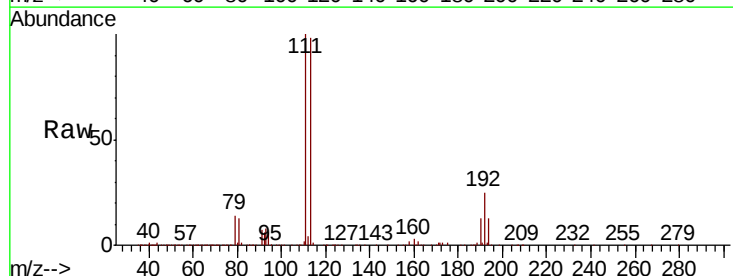
RT: 5.49 min Scan# 711

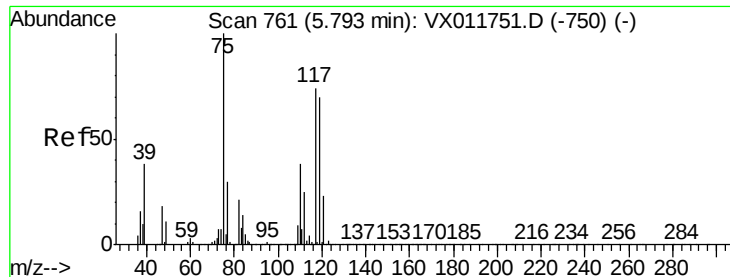
Delta R.T. -0.01 min

Lab File: VX011806.D

Acq: 23 Aug 2019 18:24

Tgt Ion:	113	Resp:	187546
Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.0	121.4
192	27.1	19.9	29.9





#36

1,1-Dichloropropene

Concen: 5.153 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011806.D

Acq: 23 Aug 2019 18:24

Instrument :

MSVOA_X

ClientSampleId :

T1-S1-(0)

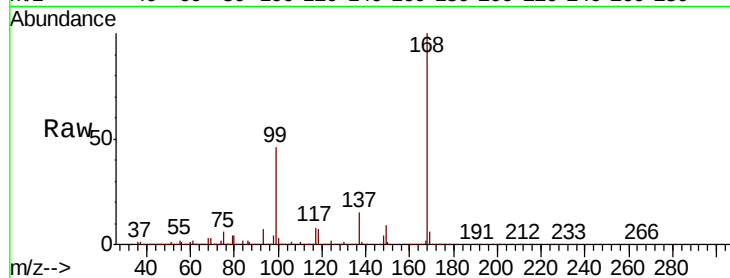
Tgt Ion: 75 Resp: 25912

Ion Ratio Lower Upper

75 100

110 13.3 19.0 57.0#

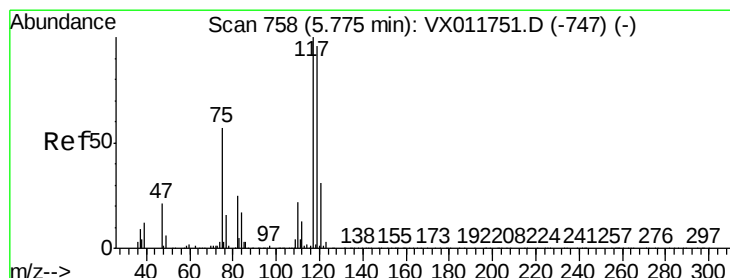
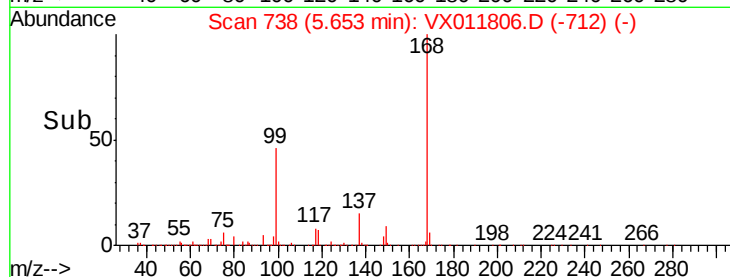
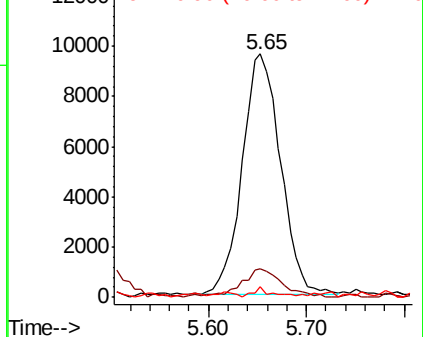
77 1.8 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.975 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.12 min

Lab File: VX011806.D

Acq: 23 Aug 2019 18:24

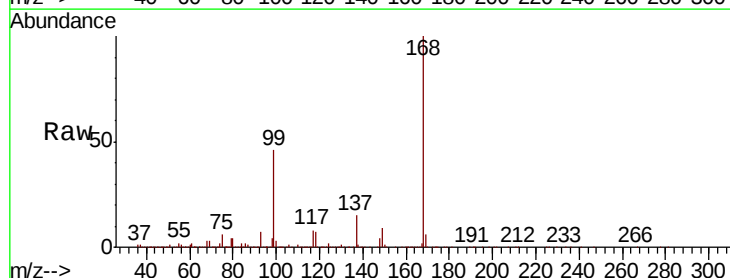
Tgt Ion: 117 Resp: 39745

Ion Ratio Lower Upper

117 100

119 4.6 76.6 114.8#

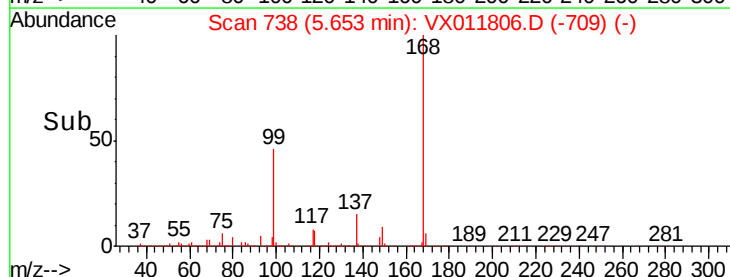
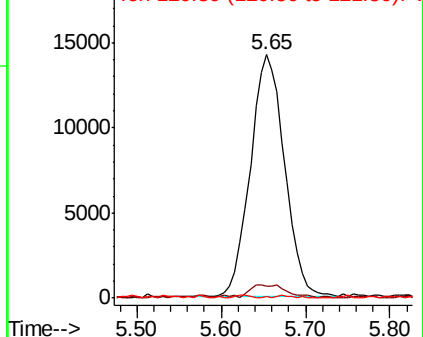
121 0.2 25.2 37.8#

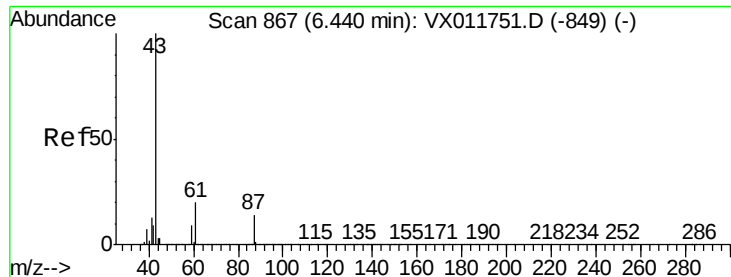


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 5.956 ug/l

RT: 6.44 min Scan# 867

Delta R.T. -0.00 min

Lab File: VX011806.D

Acq: 23 Aug 2019 18:24

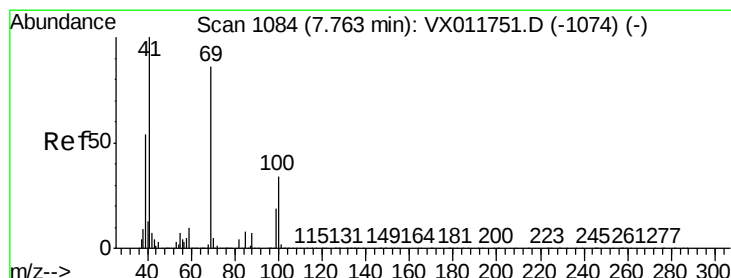
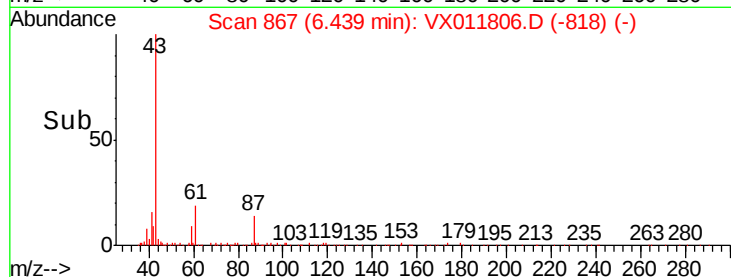
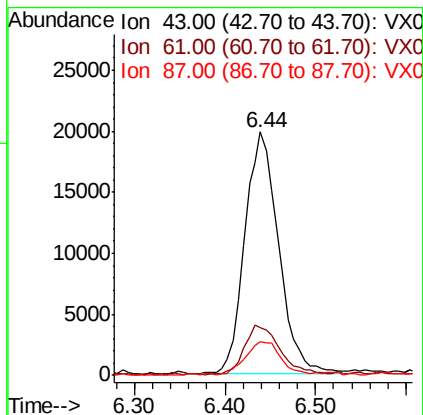
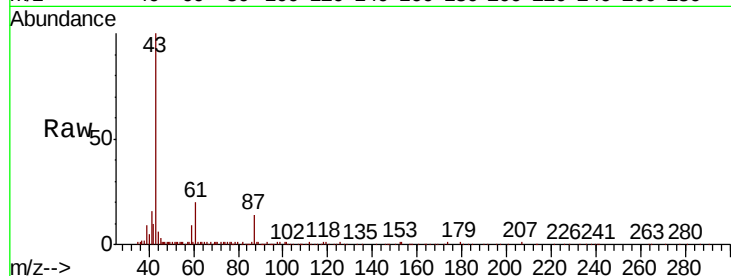
Instrument :

MSVOA_X

ClientSampled :

T1-S1-(0)

Tgt Ion:	43	Resp:	51293
Ion	Ratio	Lower	Upper
43	100		
61	22.5	16.2	24.2
87	14.4	11.6	17.4



#48

Methyl methacrylate

Concen: 0.725 ug/l

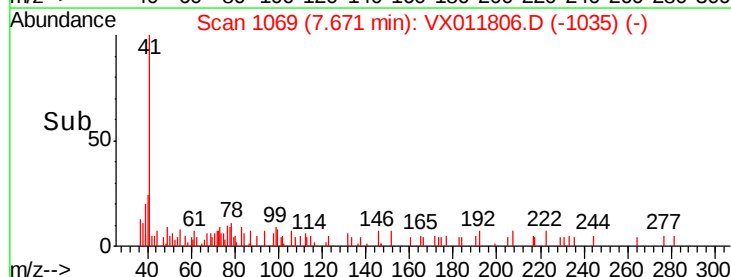
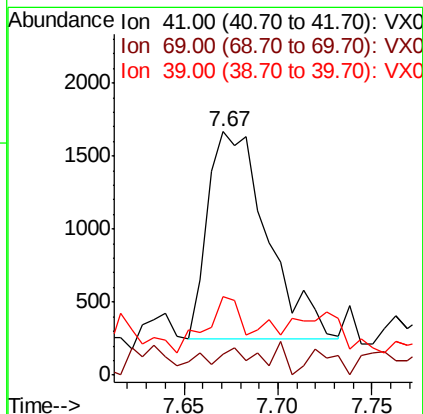
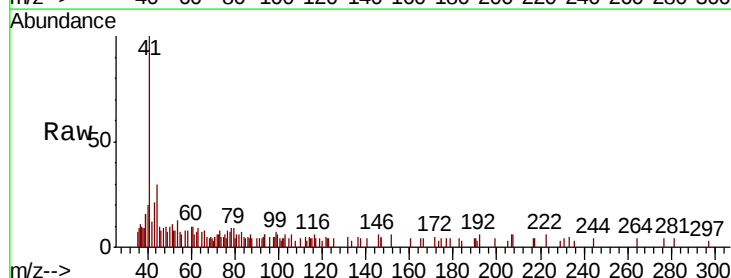
RT: 7.67 min Scan# 1069

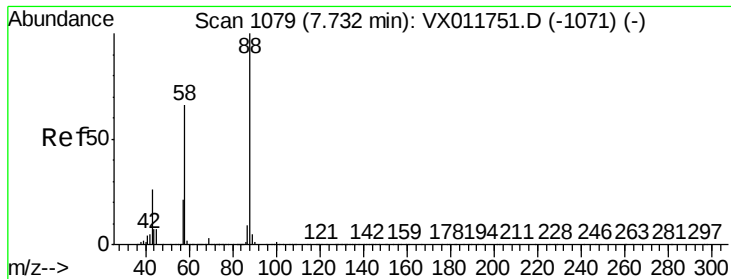
Delta R.T. -0.09 min

Lab File: VX011806.D

Acq: 23 Aug 2019 18:24

Tgt Ion:	41	Resp:	3109
Ion	Ratio	Lower	Upper
41	100		
69	5.5	69.4	104.2#
39	0.0	43.6	65.4#

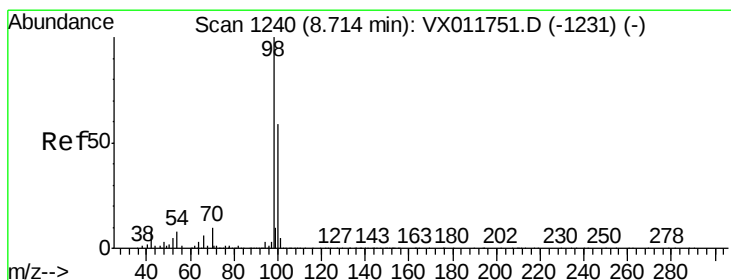
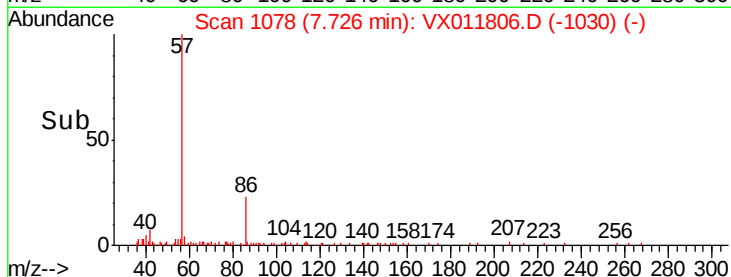
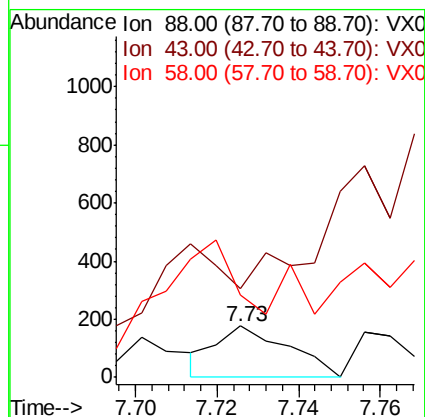
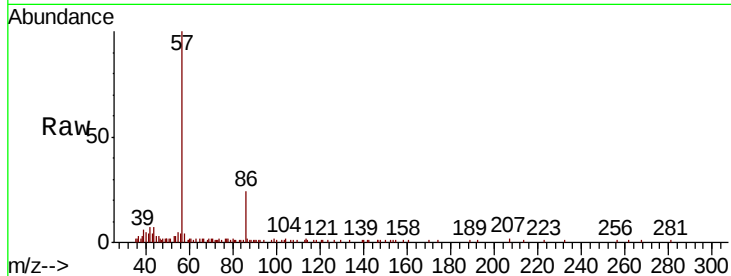




#49
1,4-Dioxane
Concen: 1.827 ug/l
RT: 7.73 min Scan# 1078
Delta R.T. -0.01 min
Lab File: VX011806.D
Acq: 23 Aug 2019 18:24

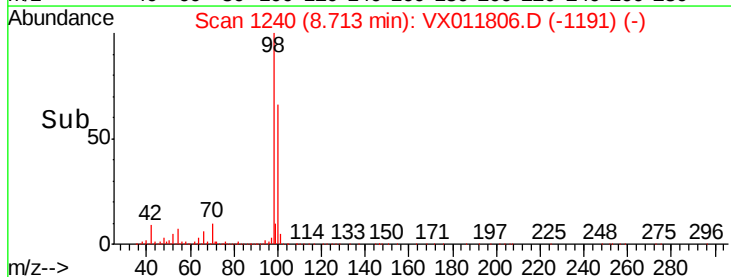
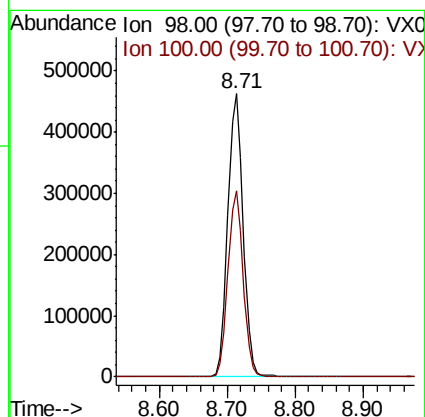
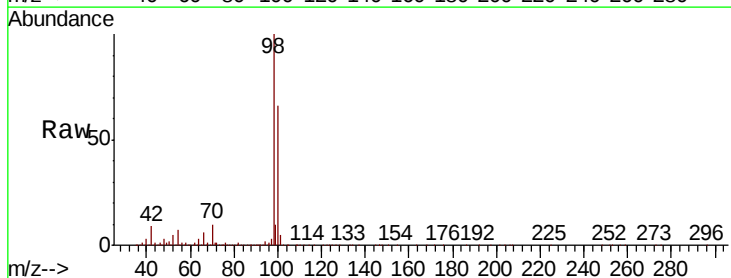
Instrument :
MSVOA_X
ClientSampleId :
T1-S1-(0)

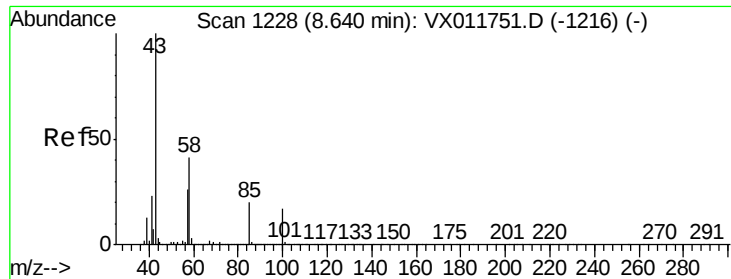
Tgt Ion: 88 Resp: 217
Ion Ratio Lower Upper
88 100
43 0.0 24.6 37.0#
58 225.3 51.4 77.2#



#50
Toluene-d8
Concen: 50.123 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011806.D
Acq: 23 Aug 2019 18:24

Tgt Ion: 98 Resp: 724898
Ion Ratio Lower Upper
98 100
100 65.3 52.1 78.1

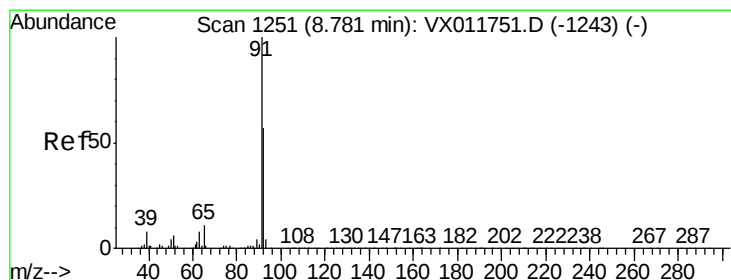
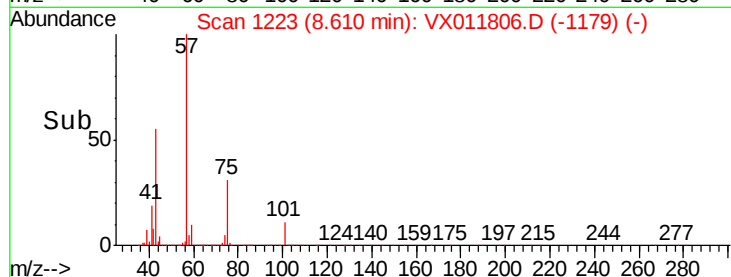
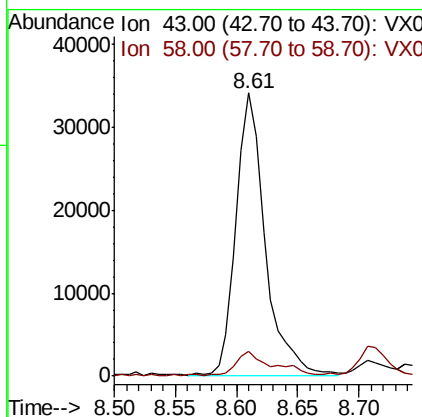
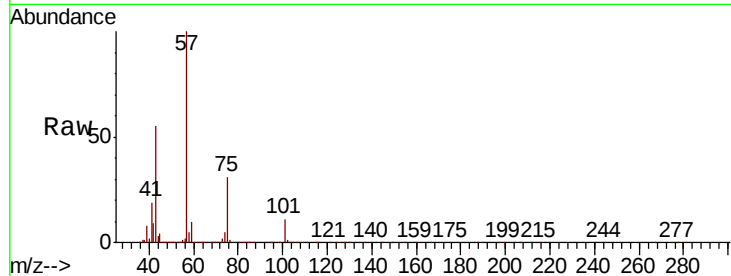




#51
 4-Methyl-2-Pentanone
 Concen: 9.861 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. -0.03 min
 Lab File: VX011806.D
 Acq: 23 Aug 2019 18:24

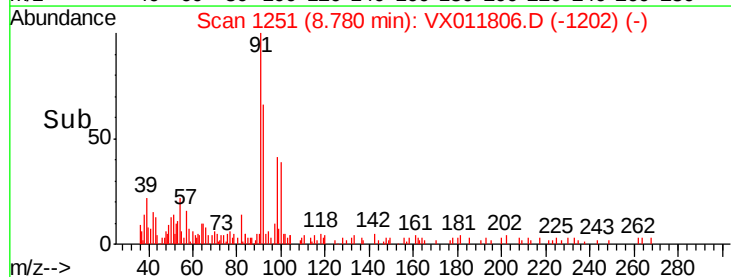
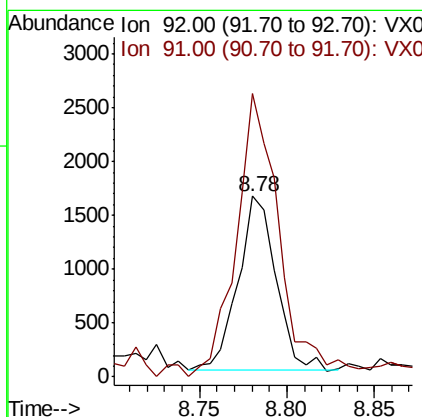
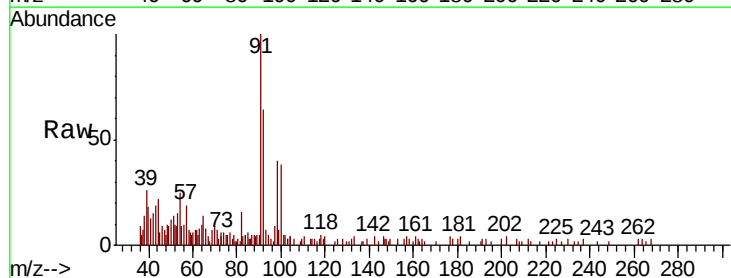
Instrument :
 MSVOA_X
 ClientSampleId :
 T1-S1-(0)

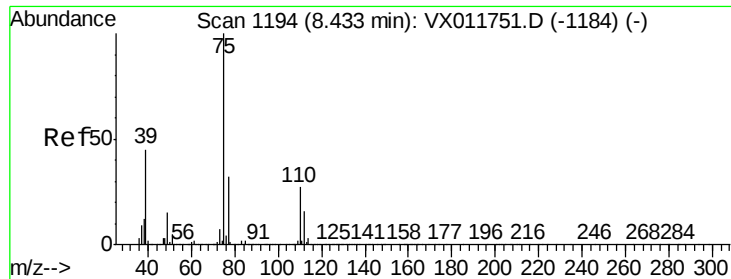
Tgt Ion: 43 Resp: 55961
 Ion Ratio Lower Upper
 43 100
 58 10.3 31.8 47.6#



#52
 Toluene
 Concen: 0.241 ug/l
 RT: 8.78 min Scan# 1251
 Delta R.T. -0.00 min
 Lab File: VX011806.D
 Acq: 23 Aug 2019 18:24

Tgt Ion: 92 Resp: 2430
 Ion Ratio Lower Upper
 92 100
 91 186.7 138.6 207.8



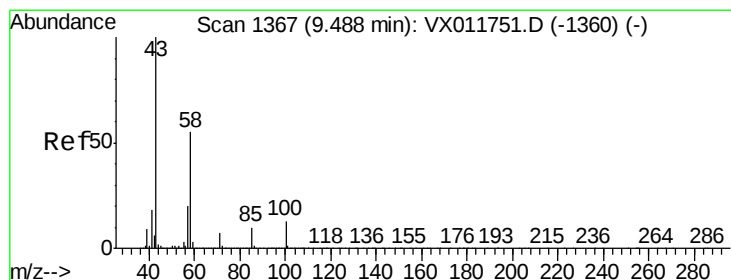
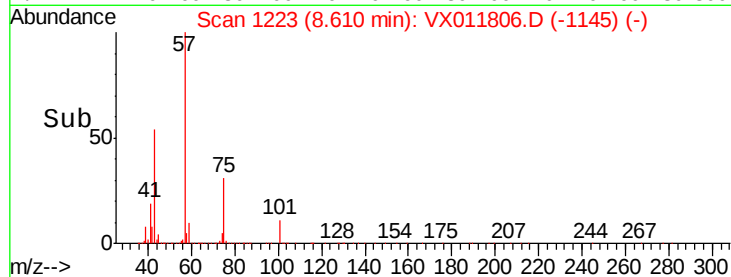
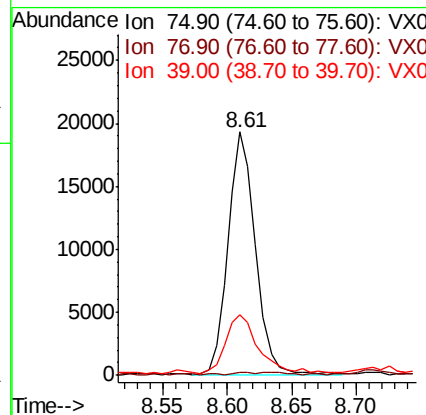
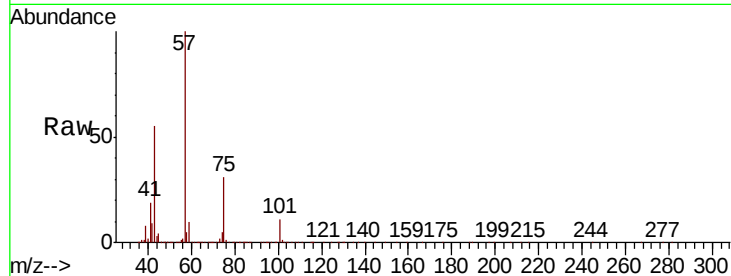


#54

cis-1,3-Dichloropropene
 Concen: 4.841 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011806.D
 Acq: 23 Aug 2019 18:24

Instrument :
 MSVOA_X
 ClientSampleId :
 T1-S1-(0)

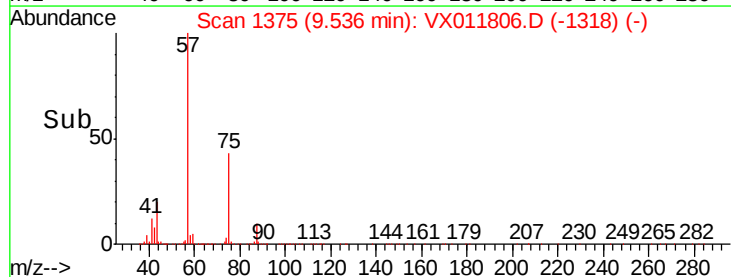
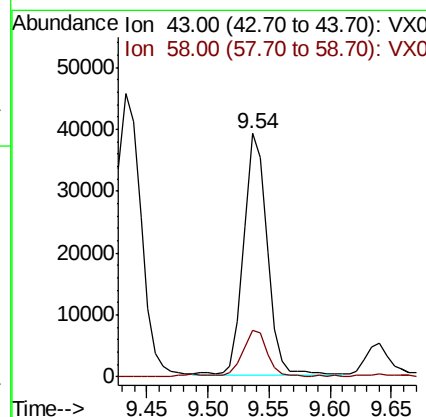
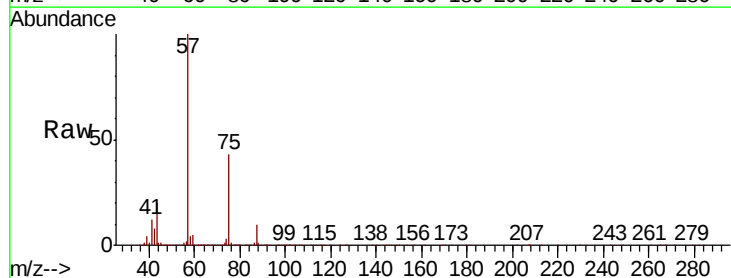
Tgt Ion: 75 Resp: 28767
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.4 38.2#
 39 23.8 36.2 54.4#

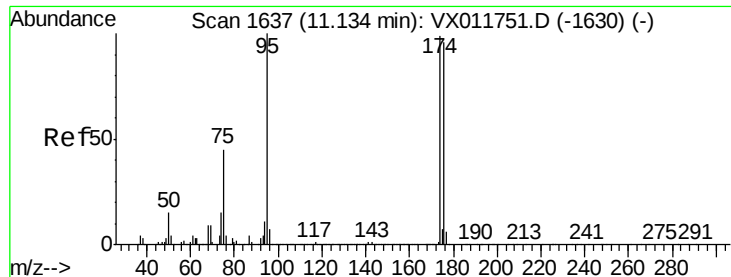


#59

2-Hexanone
 Concen: 12.084 ug/l
 RT: 9.54 min Scan# 1375
 Delta R.T. 0.05 min
 Lab File: VX011806.D
 Acq: 23 Aug 2019 18:24

Tgt Ion: 43 Resp: 52632
 Ion Ratio Lower Upper
 43 100
 58 19.2 27.7 83.1#





#62

4-Bromofluorobenzene

Concen: 43.162 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011806.D

Acq: 23 Aug 2019 18:24

Instrument :

MSVOA_X

ClientSampled :

T1-S1-(0)

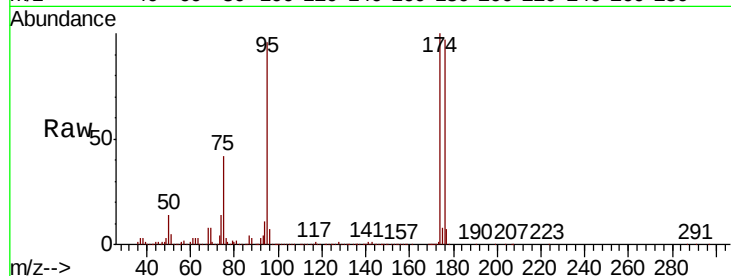
Tgt Ion: 95 Resp: 246728

Ion Ratio Lower Upper

95 100

174 106.3 0.0 197.4

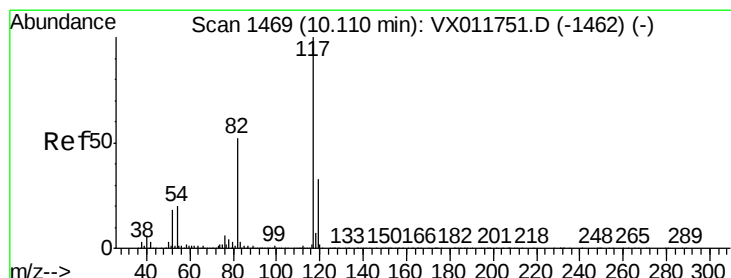
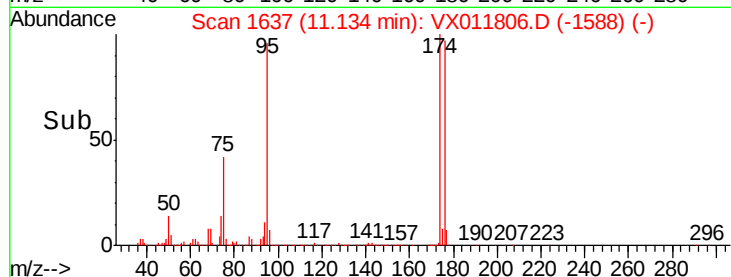
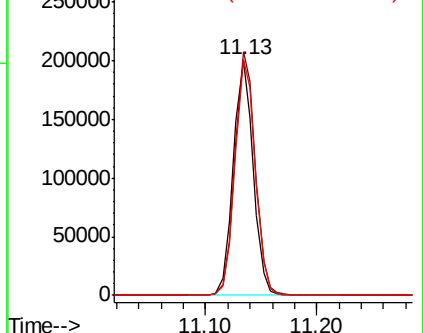
176 102.2 0.0 194.4



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: VX011806.D

Acq: 23 Aug 2019 18:24

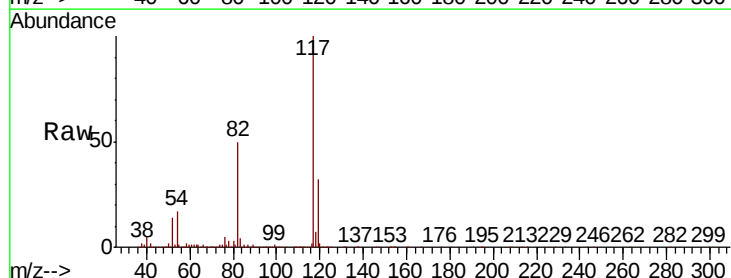
Tgt Ion: 117 Resp: 577927

Ion Ratio Lower Upper

117 100

82 49.7 41.7 62.5

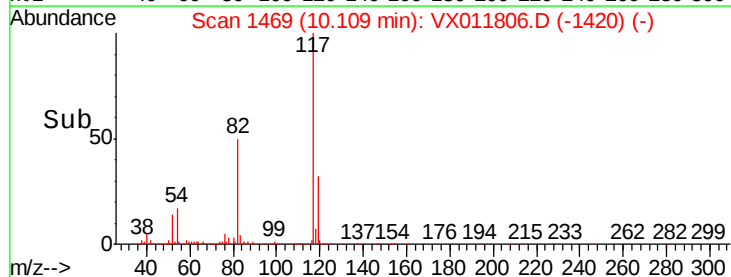
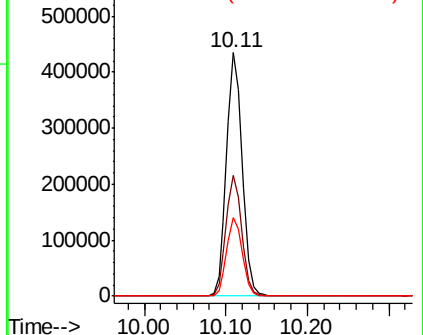
119 32.4 26.2 39.2

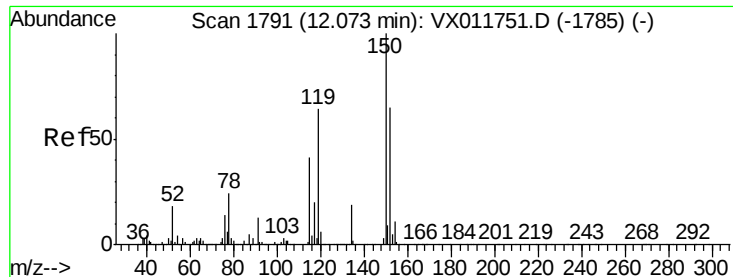


Abundance Ion 116.90 (116.60 to 117.60): V

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. 0.01 min

Lab File: VX011806.D

Acq: 23 Aug 2019 18:24

Instrument :

MSVOA_X

ClientSampleId :

T1-S1-(0)

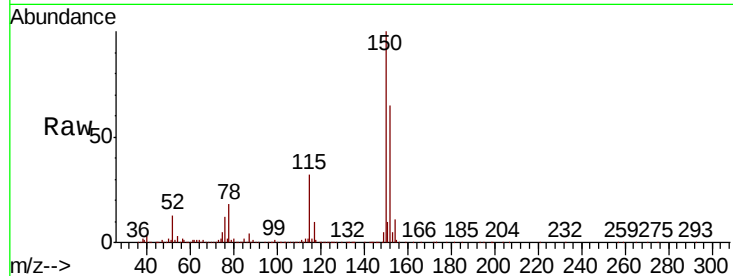
Tgt Ion:152 Resp: 288130

Ion Ratio Lower Upper

152 100

115 51.8 37.3 111.8

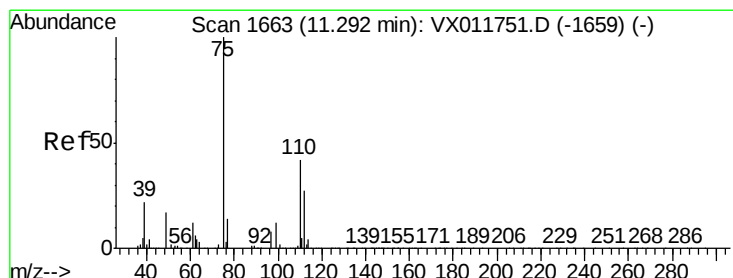
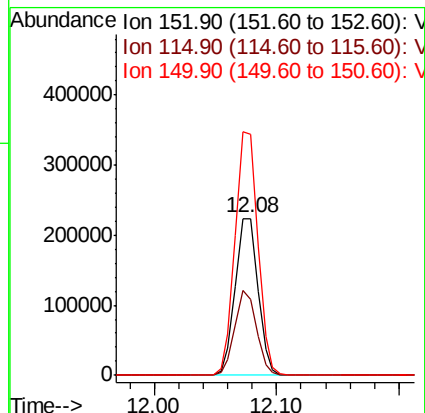
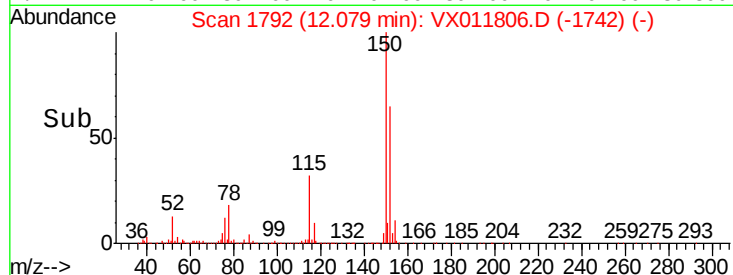
150 154.5 0.0 343.0



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: 21.637 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011806.D

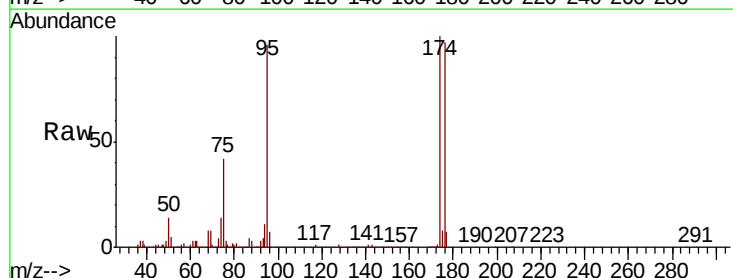
Acq: 23 Aug 2019 18:24

Tgt Ion: 75 Resp: 109391

Ion Ratio Lower Upper

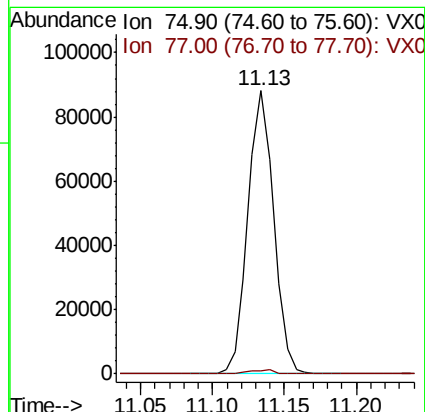
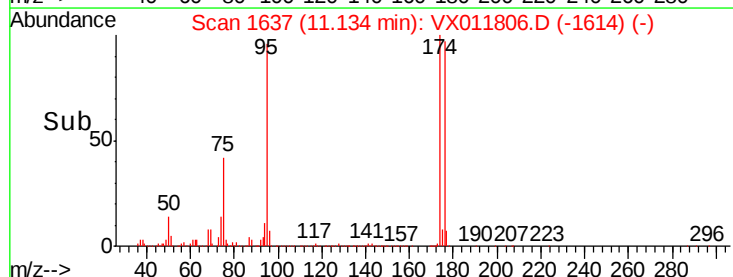
75 100

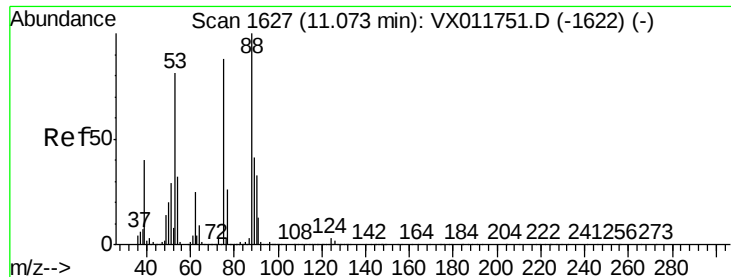
77 1.6 21.1 63.3#



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: 65.252 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011806.D

Acq: 23 Aug 2019 18:24

Instrument :

MSVOA_X

ClientSampleId :

T1-S1-(0)

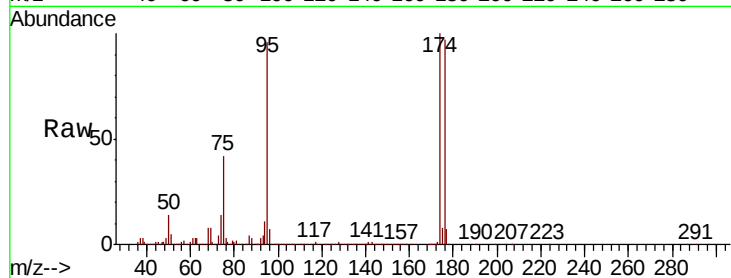
Tgt Ion: 75 Resp: 109391

Ion Ratio Lower Upper

75 100

53 0.0 77.1 115.7#

89 0.0 38.5 57.7#



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

