

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX082219\
 Data File : VX011764.D
 Acq On : 22 Aug 2019 16:08
 Operator : JC/SP
 Sample : K4388-32
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 T4-D-(2)

Quant Time: Aug 23 02:02:23 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	5.66	168	438147	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	646986	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	560451	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	280803	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	219234	49.81	ug/l	0.00
Spiked Amount			Recovery	=	99.62%	
35) Dibromofluoromethane	5.49	113	191883	45.86	ug/l	0.00
Spiked Amount			Recovery	=	91.72%	
50) Toluene-d8	8.71	98	722880	49.54	ug/l	0.00
Spiked Amount			Recovery	=	99.08%	
62) 4-Bromofluorobenzene	11.13	95	251379	43.58	ug/l	0.00
Spiked Amount			Recovery	=	87.16%	

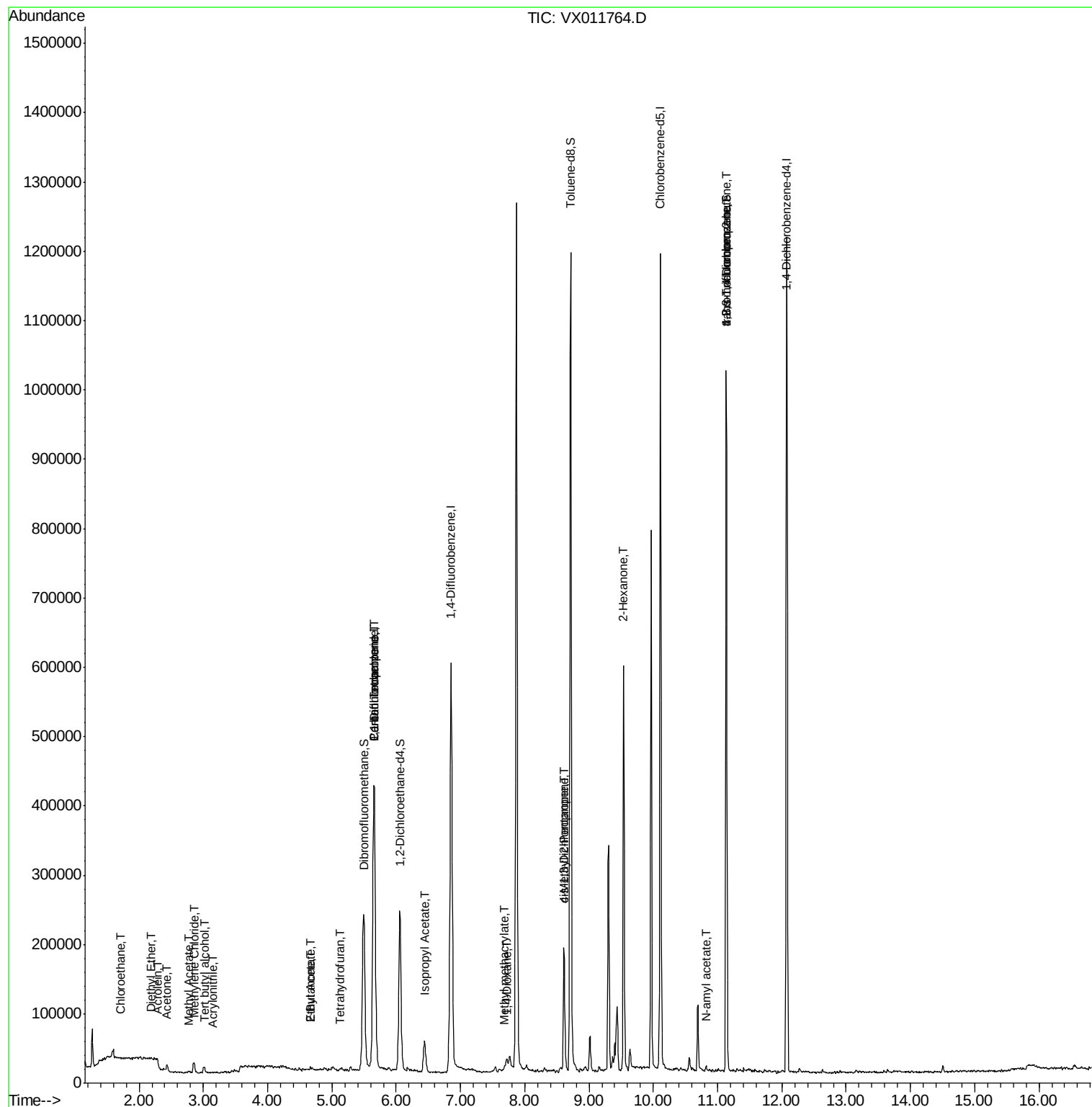
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.72	64	998	0.476	ug/l #	44
8) Diethyl Ether	2.18	74	398	0.205	ug/l	68
11) Tert butyl alcohol	3.01	59	5502	6.326	ug/l #	76
13) Acrolein	2.28	56	256	0.761	ug/l #	71
15) Acrylonitrile	3.13	53	606	0.305	ug/l #	49
16) Acetone	2.44	43	8684	4.536	ug/l	99
18) Methyl Acetate	2.77	43	3836	0.738	ug/l #	84
20) Methylene Chloride	2.85	84	9007	2.301	ug/l #	87
25) 2-Butanone	4.67	43	2389	0.869	ug/l	92
29) Tetrahydrofuran	5.13	42	595	0.338	ug/l #	46
36) 1,1-Dichloropropene	5.65	75	26261	5.176	ug/l #	53
37) Ethyl Acetate	4.67	43	2389	0.445	ug/l	98
38) Carbon Tetrachloride	5.65	117	38155	6.636	ug/l #	16
43) Isopropyl Acetate	6.44	43	64207	7.389	ug/l	98
48) Methyl methacrylate	7.67	41	3864	0.893	ug/l #	13
49) 1,4-Dioxane	7.73	88	216	1.803	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	61314	10.708	ug/l #	52
54) cis-1,3-Dichloropropene	8.61	75	30928	5.158	ug/l #	63
59) 2-Hexanone	9.54	43	70197	15.972	ug/l #	51
74) N-amyl acetate	10.82	43	3008	0.459	ug/l #	55
76) 1,2,3-Trichloropropane	11.13	75	119311	24.215	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.13	75	119311	73.027	ug/l #	11

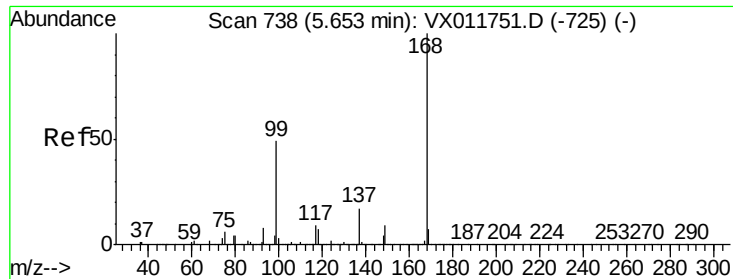
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011764.D

Acq: 22 Aug 2019 16:08

Instrument :

MSVOA_X

ClientSampleId :

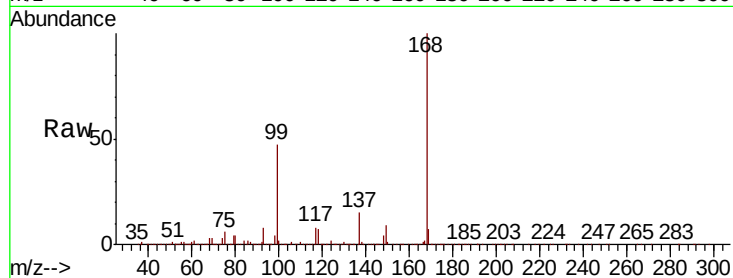
T4-D-(2)

Tgt Ion:168 Resp: 438147

Ion Ratio Lower Upper

168 100

99 46.8 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

150000

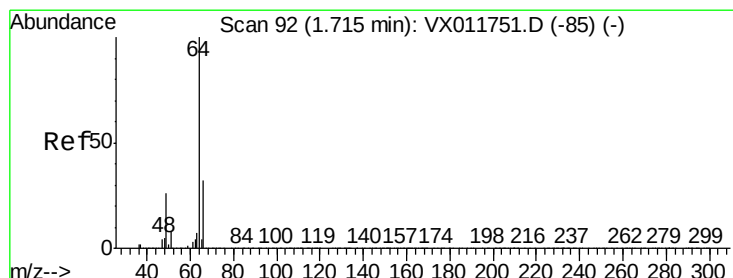
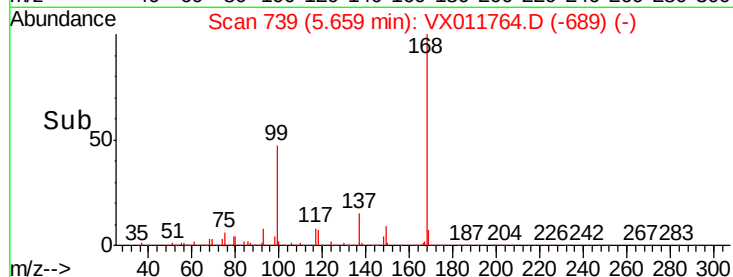
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: 0.476 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX011764.D

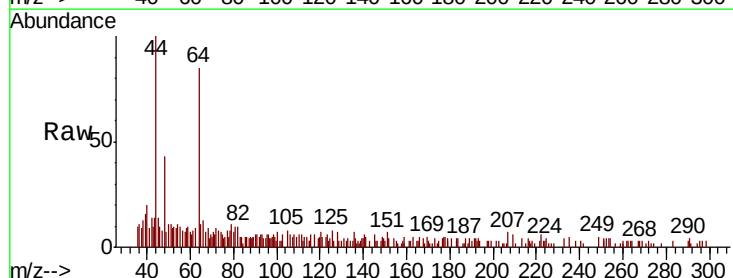
Acq: 22 Aug 2019 16:08

Tgt Ion: 64 Resp: 998

Ion Ratio Lower Upper

64 100

66 0.0 24.9 37.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

2500

2000

1500

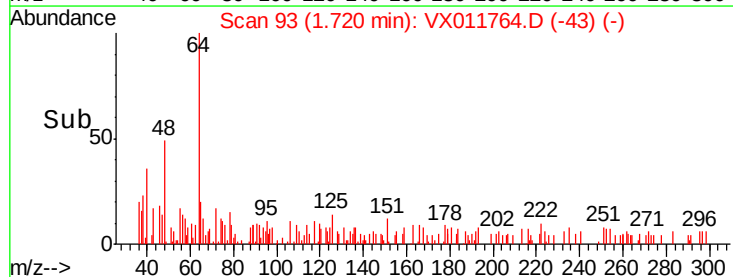
1000

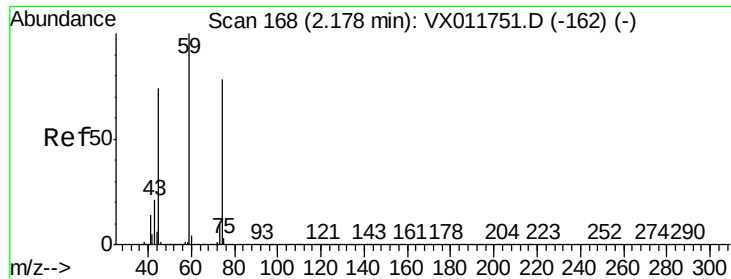
500

0

Time-->

1.68 1.70 1.72 1.74 1.76





#8

Diethyl Ether

Concen: 0.205 ug/l

RT: 2.18 min Scan# 169

Delta R.T. 0.01 min

Lab File: VX011764.D

Acq: 22 Aug 2019 16:08

Instrument :

MSVOA_X

ClientSampled :

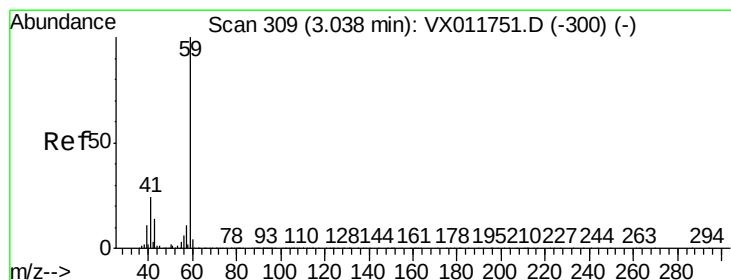
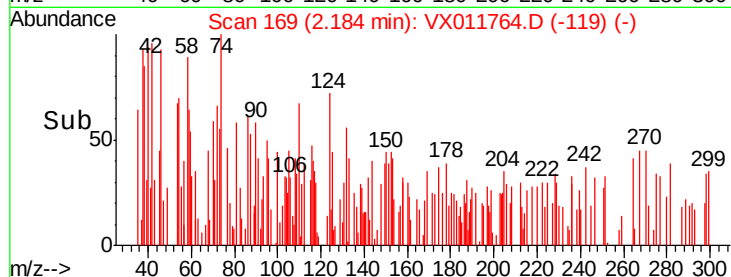
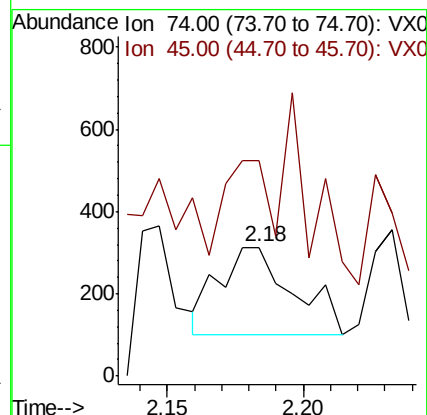
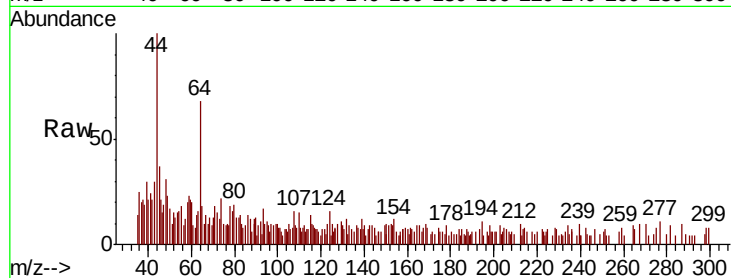
T4-D-(2)

Tgt Ion: 74 Resp: 398

Ion Ratio Lower Upper

74 100

45 62.3 46.7 140.0



#11

Tert butyl alcohol

Concen: 6.326 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.02 min

Lab File: VX011764.D

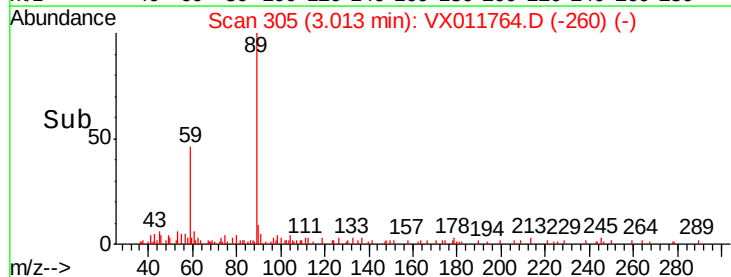
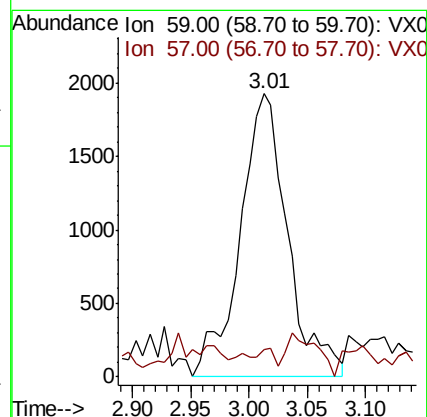
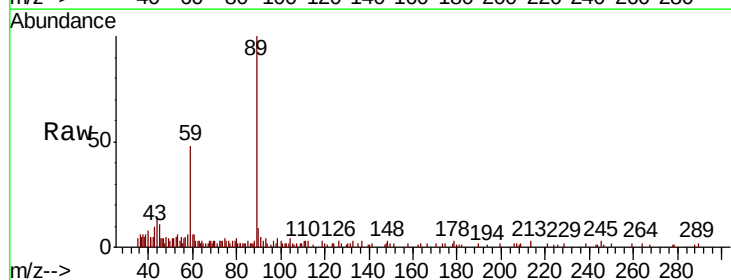
Acq: 22 Aug 2019 16:08

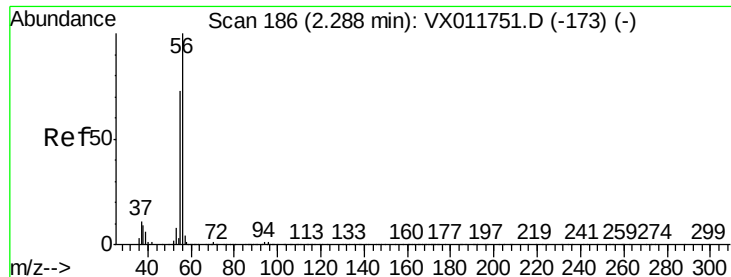
Tgt Ion: 59 Resp: 5502

Ion Ratio Lower Upper

59 100

57 1.5 8.4 12.6#





#13

Acrolein

Concen: 0.761 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX011764.D

Acq: 22 Aug 2019 16:08

Instrument :

MSVOA_X

ClientSampled :

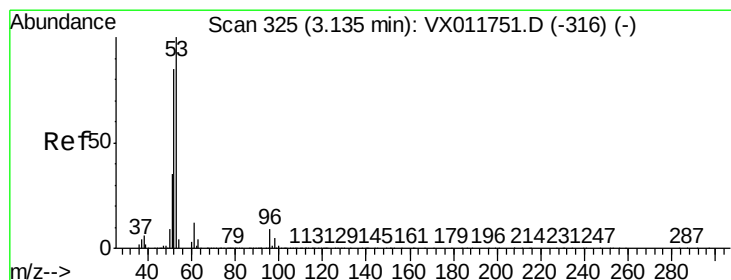
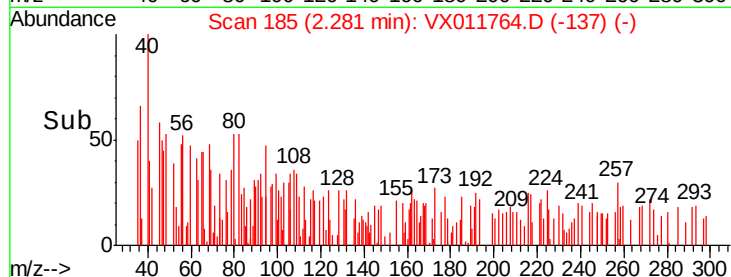
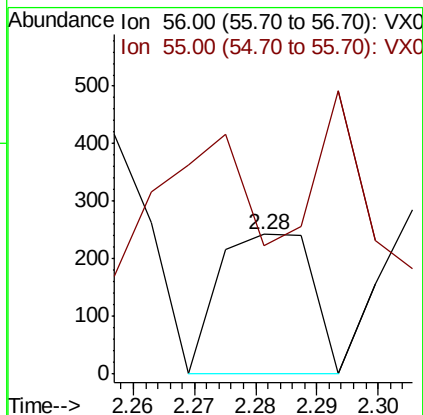
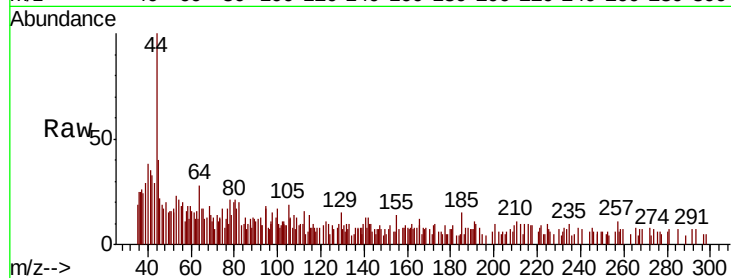
T4-D-(2)

Tgt Ion: 56 Resp: 256

Ion Ratio Lower Upper

56 100

55 92.2 54.8 82.2#



#15

Acrylonitrile

Concen: 0.305 ug/l

RT: 3.13 min Scan# 325

Delta R.T. -0.00 min

Lab File: VX011764.D

Acq: 22 Aug 2019 16:08

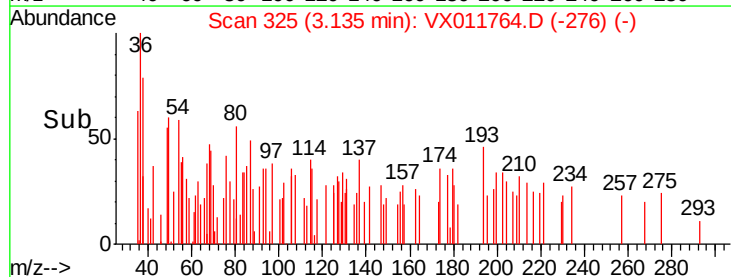
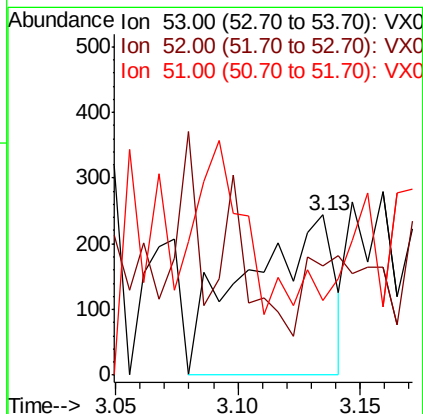
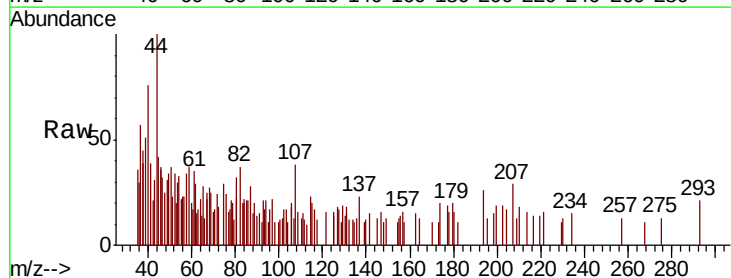
Tgt Ion: 53 Resp: 606

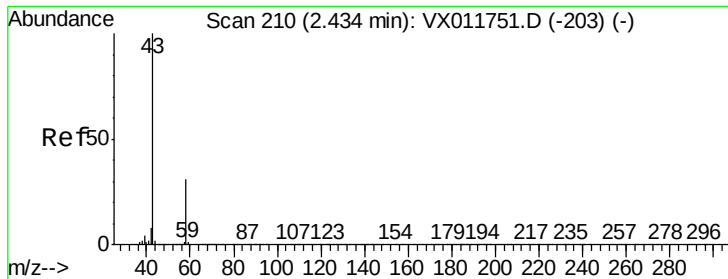
Ion Ratio Lower Upper

53 100

52 40.8 65.7 98.5#

51 0.0 28.6 43.0#

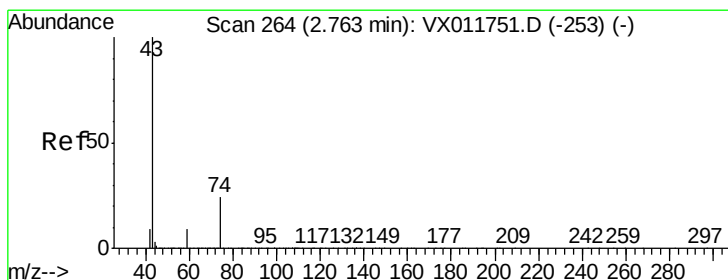
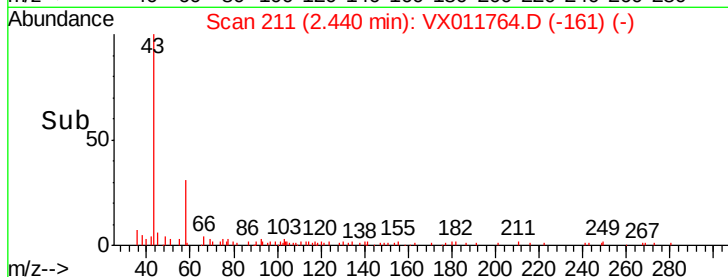
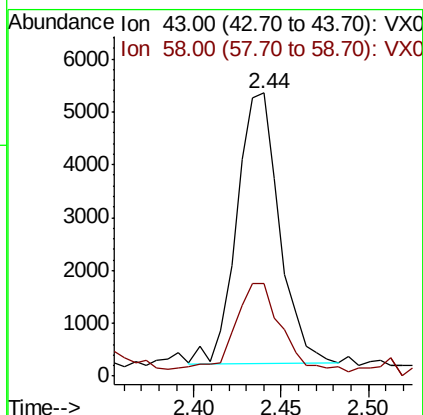
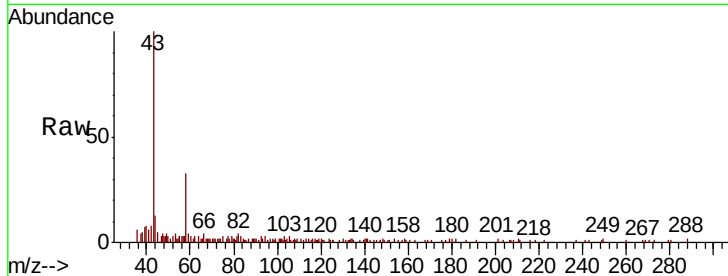




#16
Acetone
Concen: 4.536 ug/l
RT: 2.44 min Scan# 211
Delta R.T. 0.01 min
Lab File: VX011764.D
Acq: 22 Aug 2019 16:08

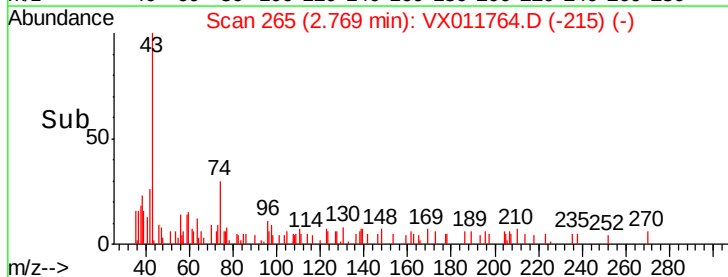
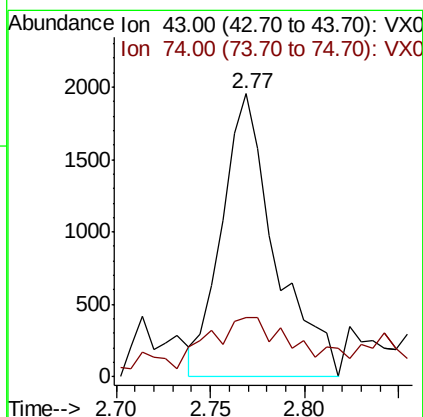
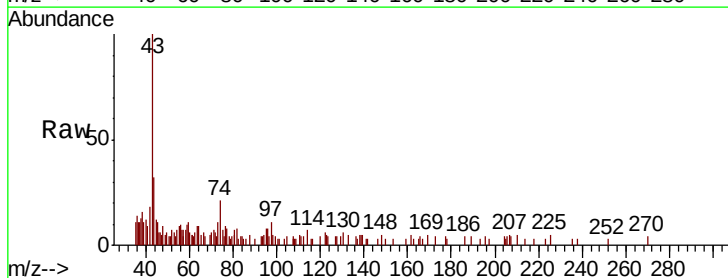
Instrument :
MSVOA_X
ClientSampleId :
T4-D-(2)

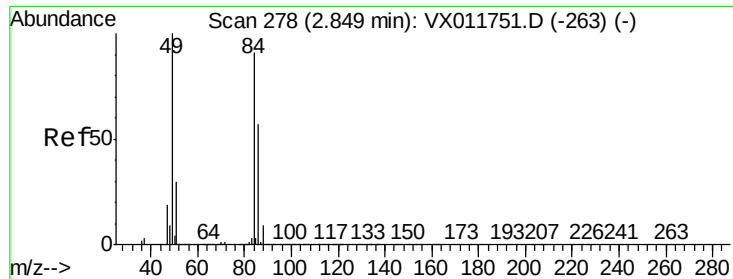
Tgt Ion: 43 Resp: 8684
Ion Ratio Lower Upper
43 100
58 31.1 24.4 36.6



#18
Methyl Acetate
Concen: 0.738 ug/l
RT: 2.77 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX011764.D
Acq: 22 Aug 2019 16:08

Tgt Ion: 43 Resp: 3836
Ion Ratio Lower Upper
43 100
74 32.2 19.5 29.3#

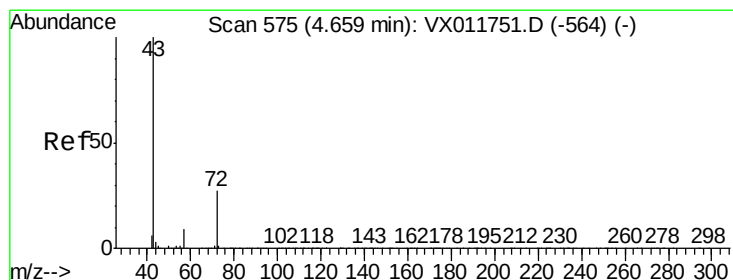
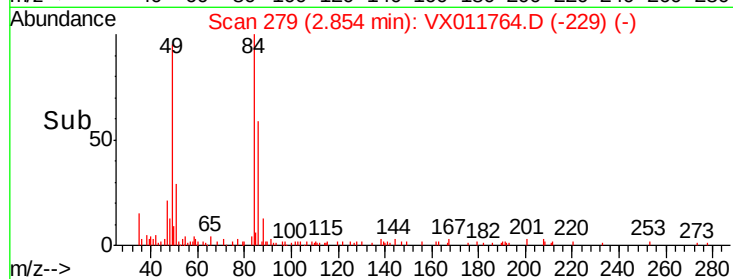
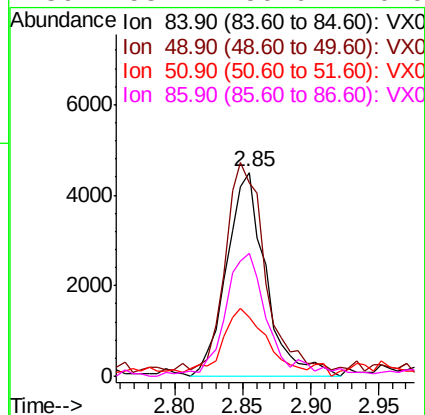
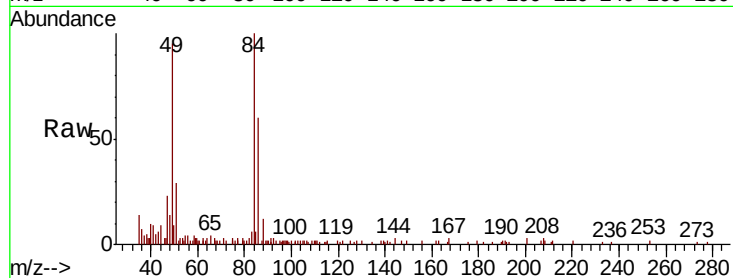




#20
Methylene Chloride
Concen: 2.301 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.01 min
Lab File: VX011764.D
Acq: 22 Aug 2019 16:08

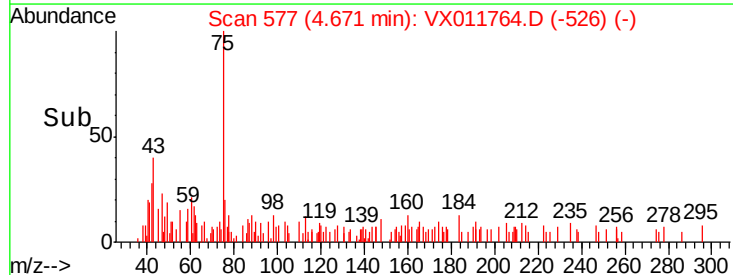
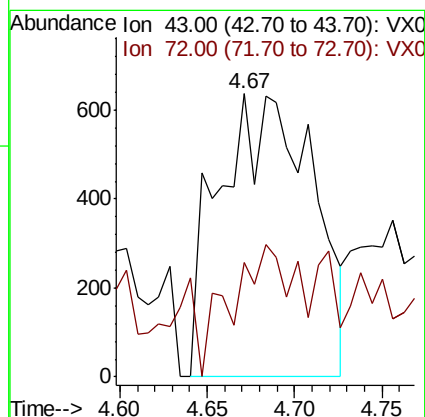
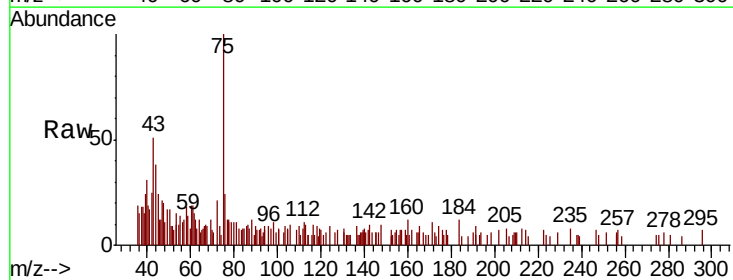
Instrument :
MSVOA_X
ClientSampleId :
T4-D-(2)

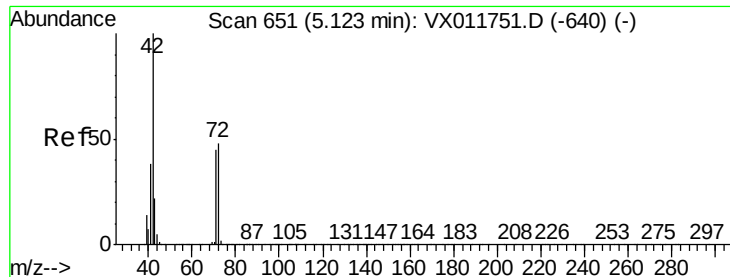
Tgt Ion:	84	Resp:	9007
Ion	Ratio	Lower	Upper
84	100		
49	91.8	88.3	132.5
51	25.9	26.2	39.2#
86	58.1	50.6	76.0



#25
2-Butanone
Concen: 0.869 ug/l
RT: 4.67 min Scan# 577
Delta R.T. 0.01 min
Lab File: VX011764.D
Acq: 22 Aug 2019 16:08

Tgt Ion:	43	Resp:	2389
Ion	Ratio	Lower	Upper
43	100		
72	23.1	21.8	32.6





#29

Tetrahydrofuran

Concen: 0.338 ug/l

RT: 5.13 min Scan# 652

Delta R.T. 0.01 min

Lab File: VX011764.D

Acq: 22 Aug 2019 16:08

Instrument :

MSVOA_X

ClientSampled :

T4-D-(2)

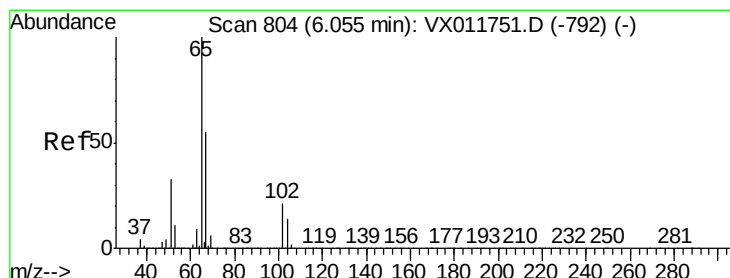
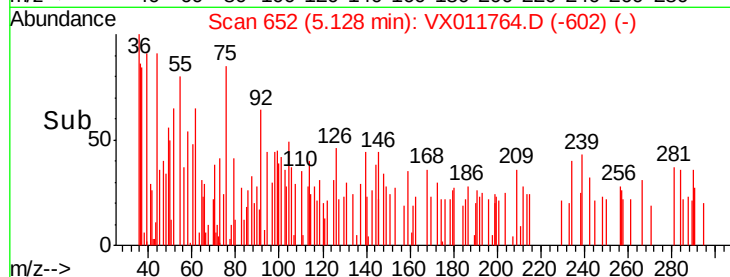
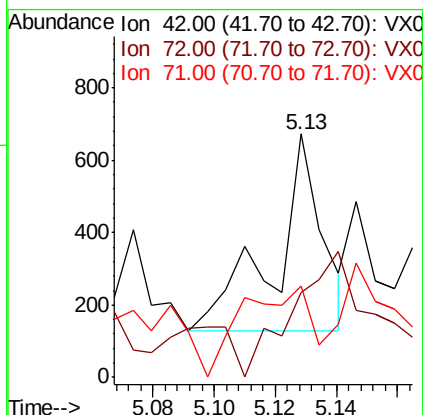
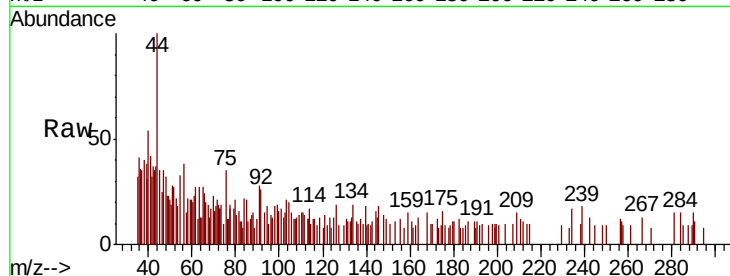
Tgt Ion: 42 Resp: 595

Ion Ratio Lower Upper

42 100

72 0.0 37.6 56.4#

71 66.6 34.6 51.8#



#33

1,2-Dichloroethane-d4

Concen: 49.809 ug/l

RT: 6.05 min Scan# 804

Delta R.T. -0.00 min

Lab File: VX011764.D

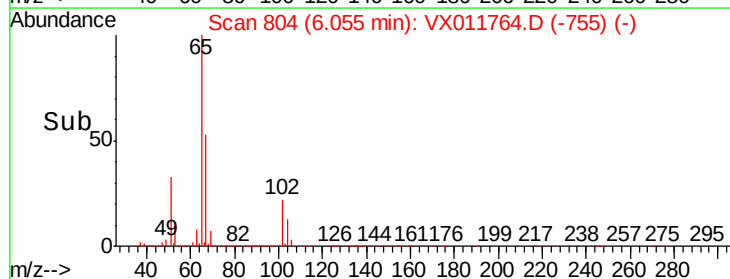
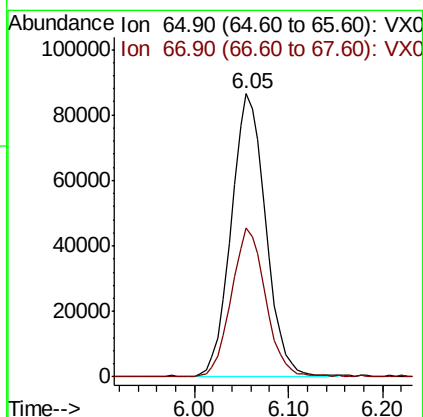
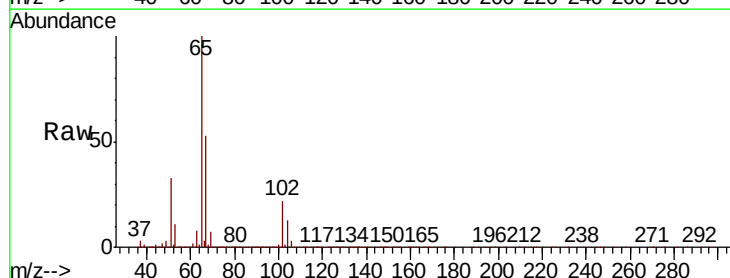
Acq: 22 Aug 2019 16:08

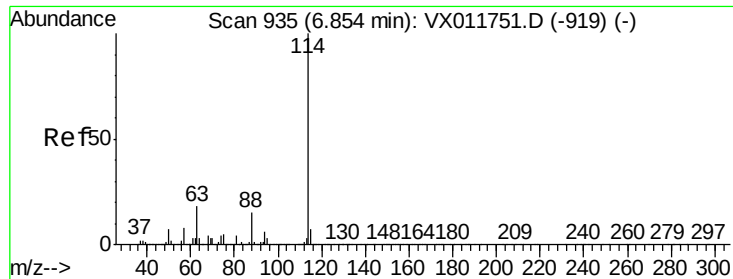
Tgt Ion: 65 Resp: 219234

Ion Ratio Lower Upper

65 100

67 52.7 0.0 107.8

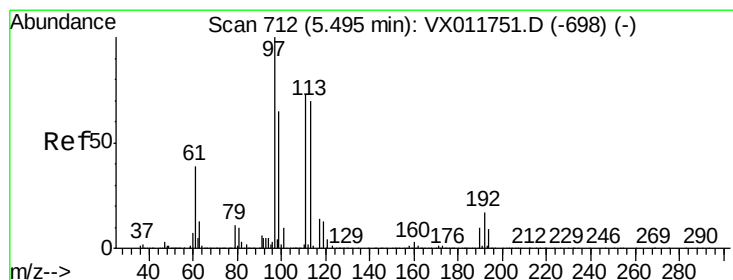
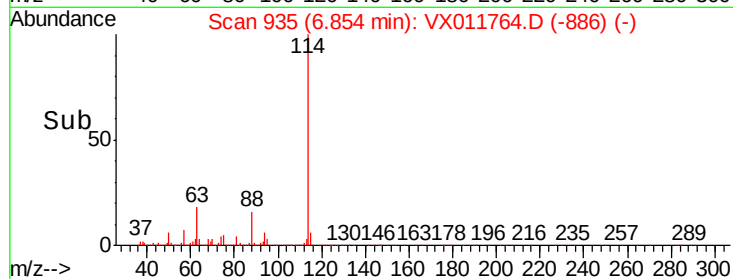
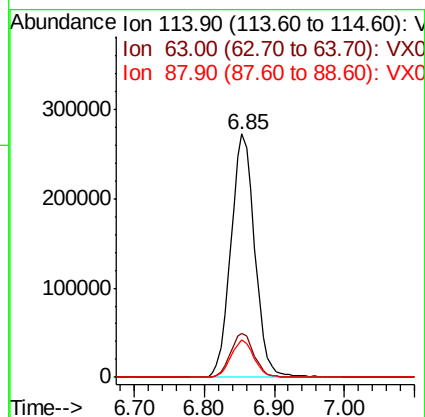
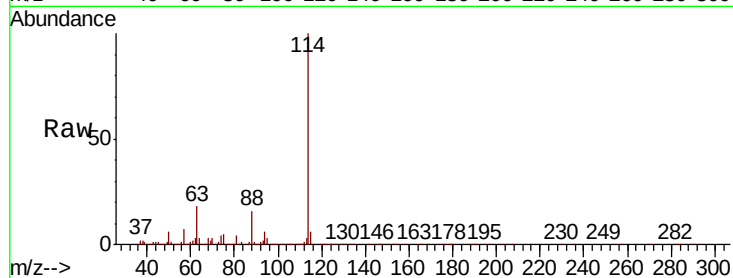




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 935
Delta R.T. -0.00 min
Lab File: VX011764.D
Acq: 22 Aug 2019 16:08

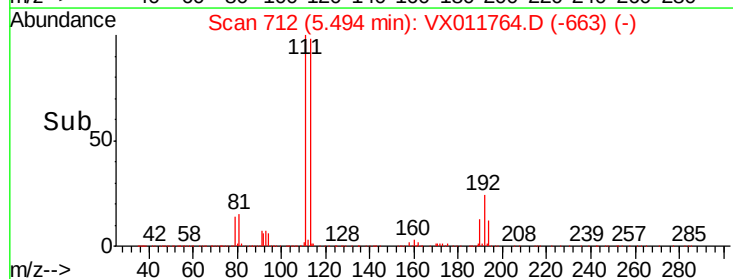
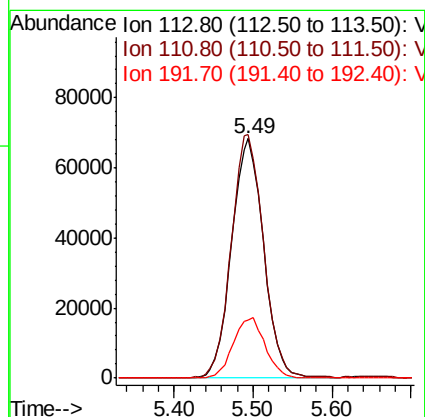
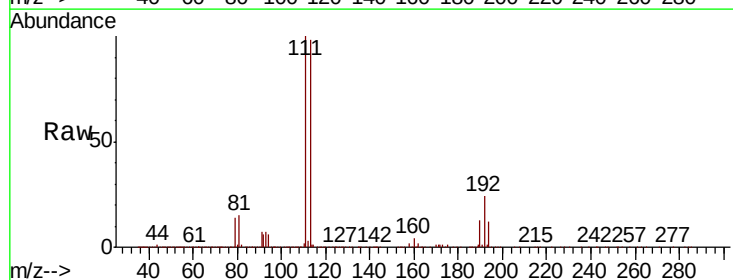
Instrument :
MSVOA_X
ClientSampleId :
T4-D-(2)

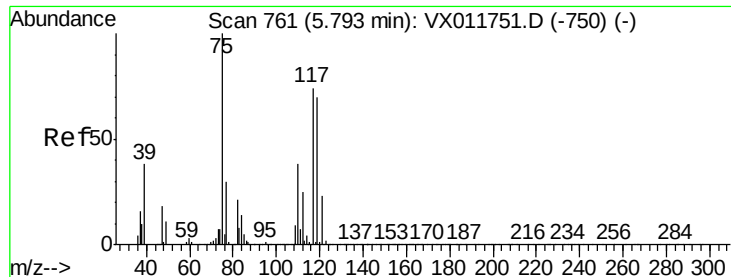
Tgt Ion	Ratio	Lower	Upper
114	100		
63	17.8	0.0	36.8
88	15.6	0.0	30.2



#35
Dibromofluoromethane
Concen: 45.865 ug/l
RT: 5.49 min Scan# 712
Delta R.T. -0.00 min
Lab File: VX011764.D
Acq: 22 Aug 2019 16:08

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.1	81.0	121.4
192	25.5	19.9	29.9

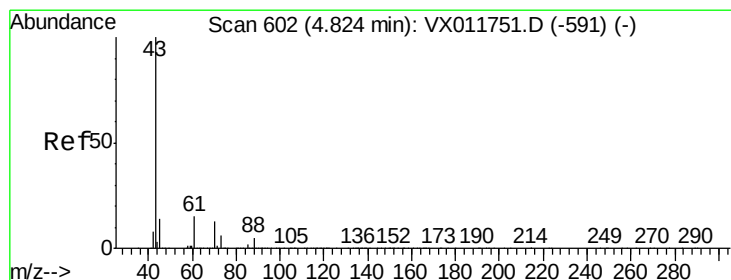
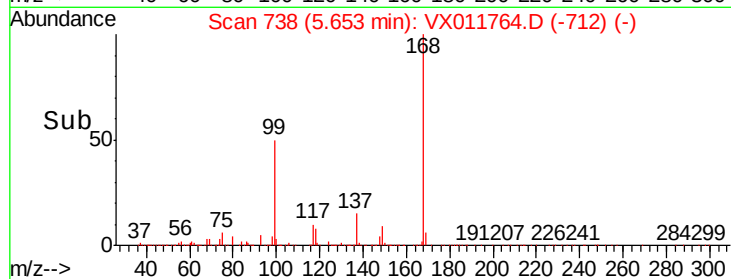
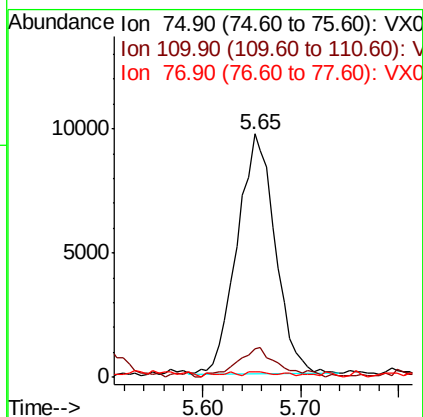
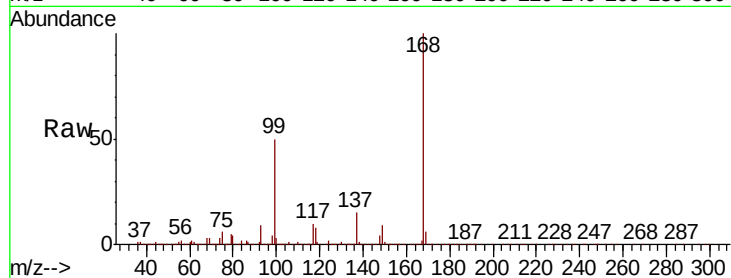




#36
 1,1-Dichloropropene
 Concen: 5.176 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.14 min
 Lab File: VX011764.D
 Acq: 22 Aug 2019 16:08

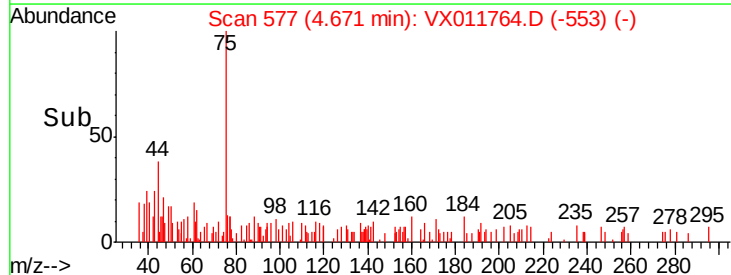
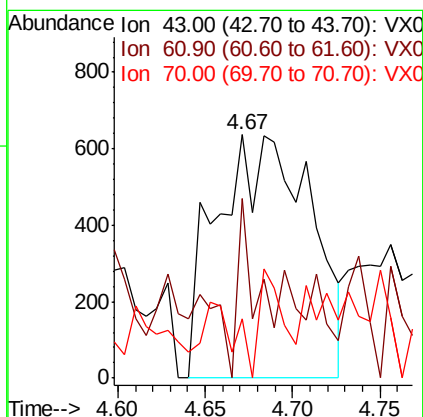
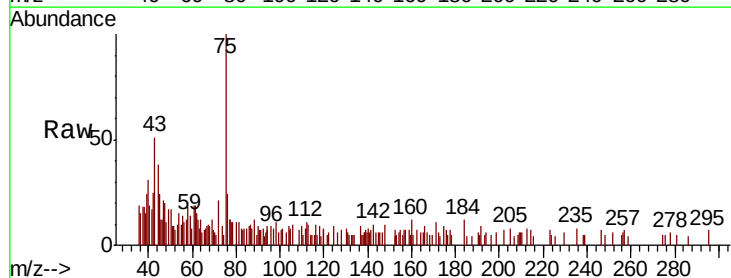
Instrument :
 MSVOA_X
 ClientSampled :
 T4-D-(2)

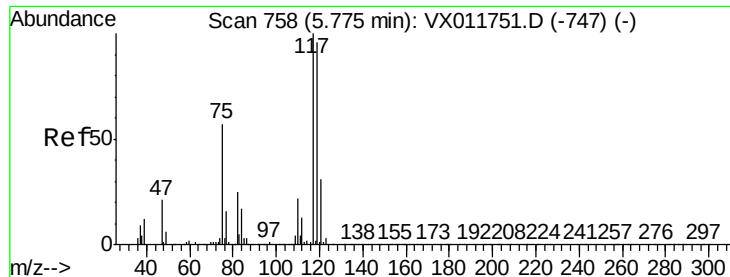
Tgt Ion	Ratio	Lower	Upper
75	100		
110	12.7	19.0	57.0#
77	1.0	24.6	36.8#



#37
 Ethyl Acetate
 Concen: 0.445 ug/l
 RT: 4.67 min Scan# 577
 Delta R.T. -0.15 min
 Lab File: VX011764.D
 Acq: 22 Aug 2019 16:08

Tgt Ion	Ratio	Lower	Upper
43	100		
61	15.6	11.5	17.3
70	11.4	9.5	14.3





#38

Carbon Tetrachloride

Concen: 6.636 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.12 min

Lab File: VX011764.D

Acq: 22 Aug 2019 16:08

Instrument :

MSVOA_X

ClientSampled :

T4-D-(2)

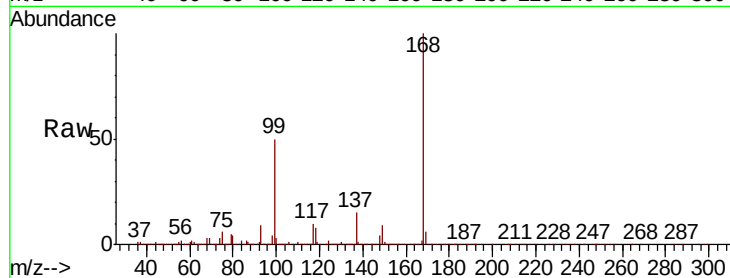
Tgt Ion:117 Resp: 38155

Ion Ratio Lower Upper

117 100

119 5.1 76.6 114.8#

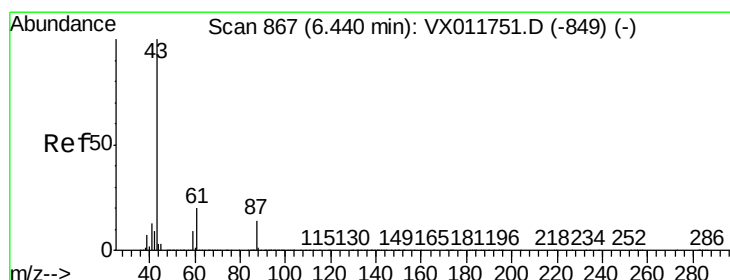
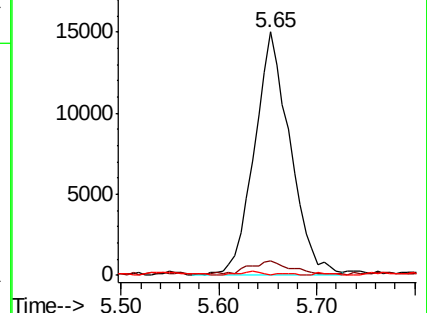
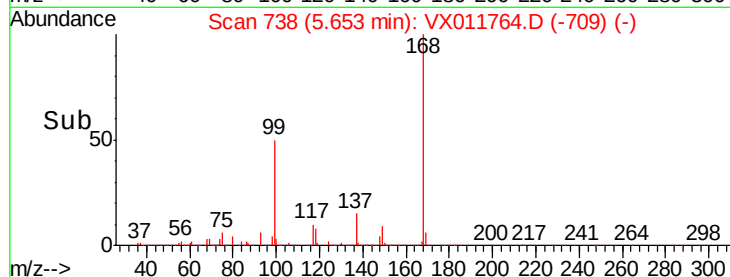
121 0.0 25.2 37.8#



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: 7.389 ug/l

RT: 6.44 min Scan# 867

Delta R.T. -0.00 min

Lab File: VX011764.D

Acq: 22 Aug 2019 16:08

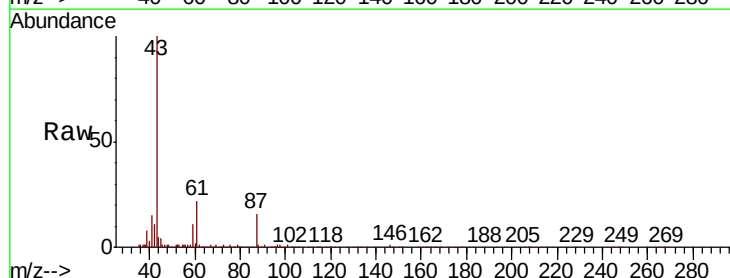
Tgt Ion: 43 Resp: 64207

Ion Ratio Lower Upper

43 100

61 20.5 16.2 24.2

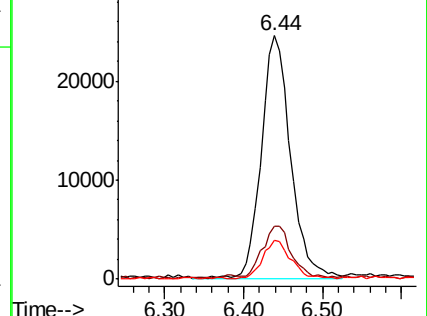
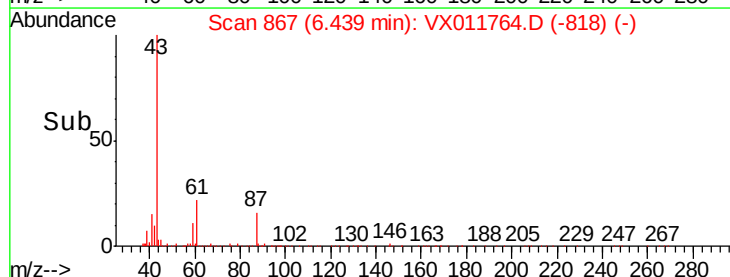
87 15.8 11.6 17.4

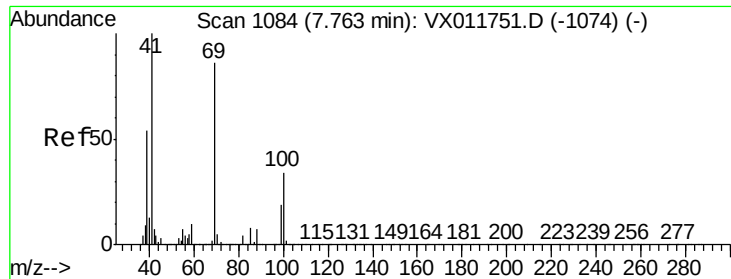


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

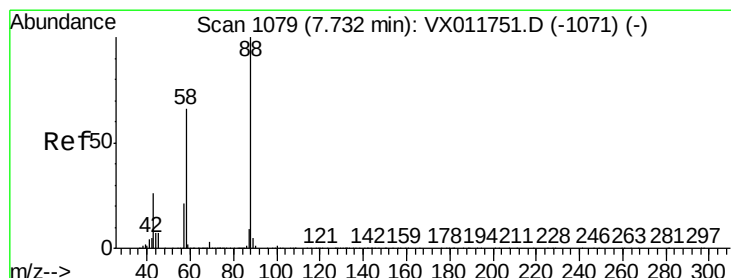
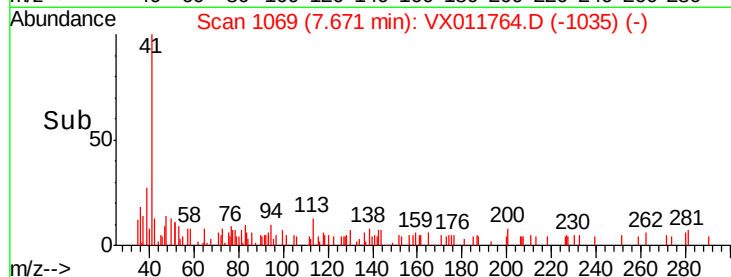
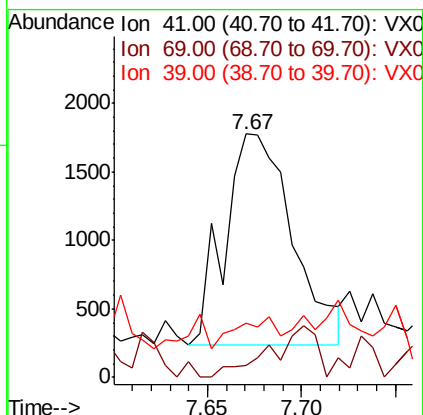
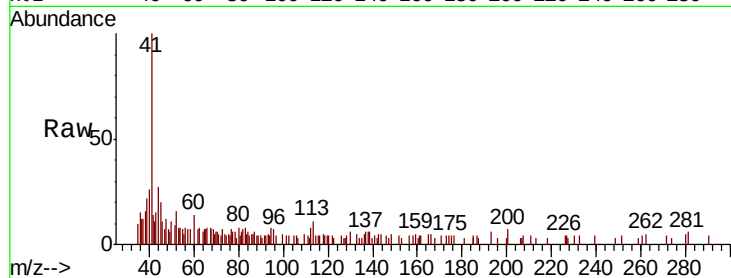




#48
Methyl methacrylate
Concen: 0.893 ug/l
RT: 7.67 min Scan# 1069
Delta R.T. -0.09 min
Lab File: VX011764.D
Acq: 22 Aug 2019 16:08

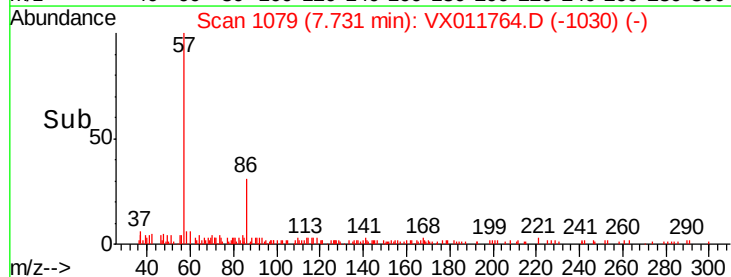
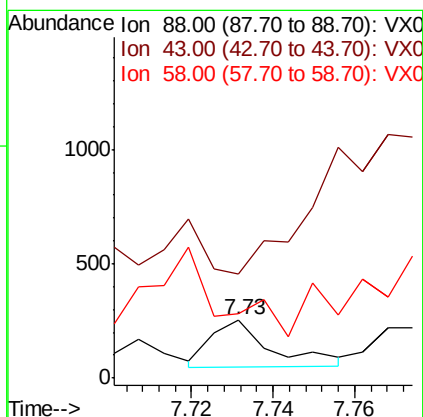
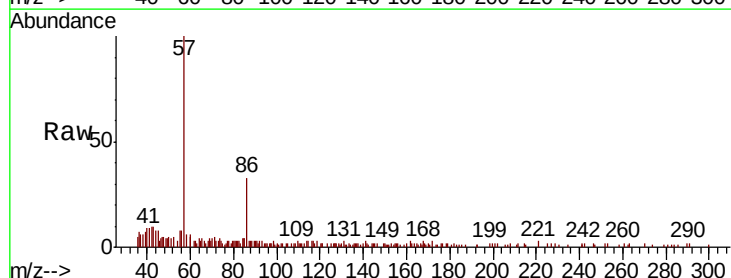
Instrument :
MSVOA_X
ClientSampleId :
T4-D-(2)

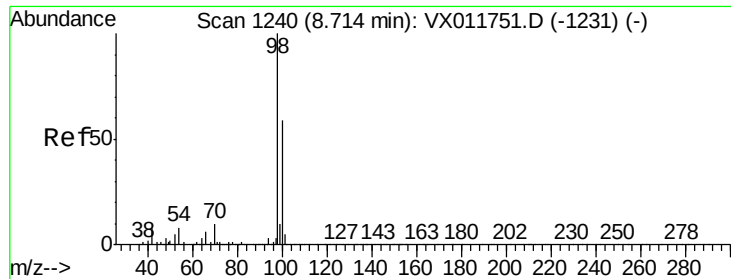
Tgt Ion: 41 Resp: 3864
Ion Ratio Lower Upper
41 100
69 0.0 69.4 104.2#
39 0.0 43.6 65.4#



#49
1,4-Dioxane
Concen: 1.803 ug/l
RT: 7.73 min Scan# 1079
Delta R.T. -0.00 min
Lab File: VX011764.D
Acq: 22 Aug 2019 16:08

Tgt Ion: 88 Resp: 216
Ion Ratio Lower Upper
88 100
43 0.0 24.6 37.0#
58 233.3 51.4 77.2#





#50

Toluene-d8

Concen: 49.537 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011764.D

Acq: 22 Aug 2019 16:08

Instrument :

MSVOA_X

ClientSampleId :

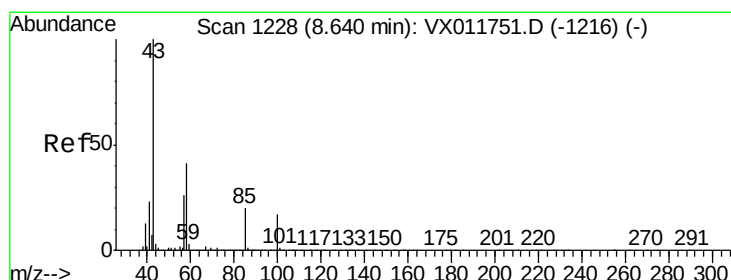
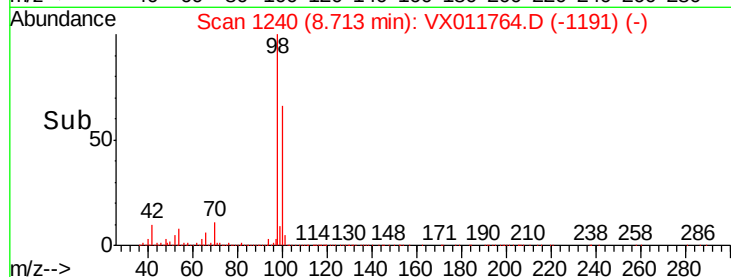
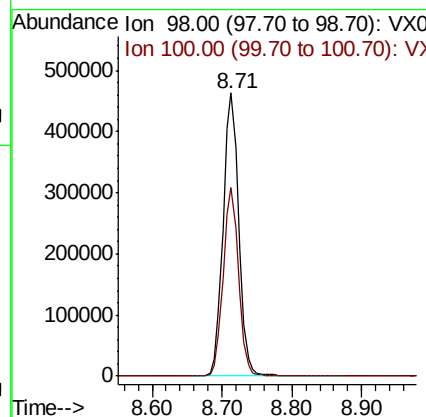
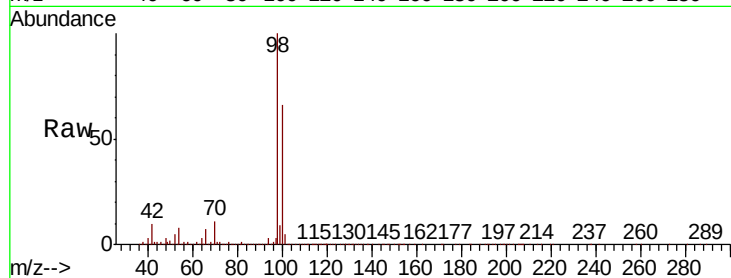
T4-D-(2)

Tgt Ion: 98 Resp: 722880

Ion Ratio Lower Upper

98 100

100 65.3 52.1 78.1



#51

4-Methyl-2-Pentanone

Concen: 10.708 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011764.D

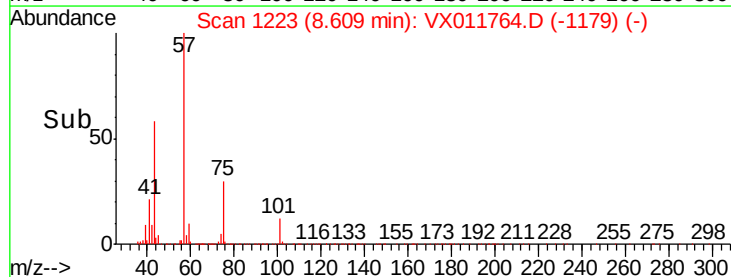
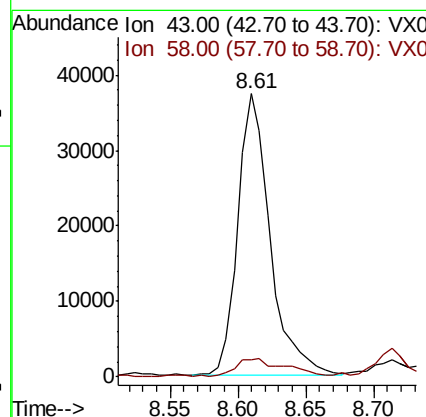
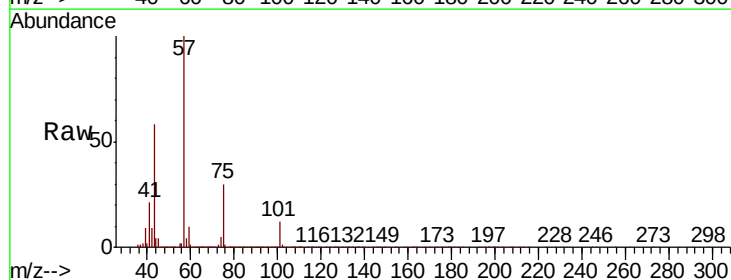
Acq: 22 Aug 2019 16:08

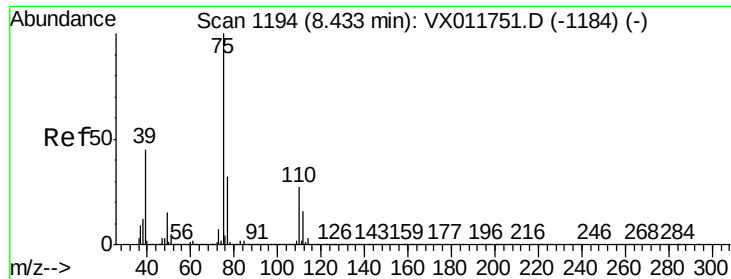
Tgt Ion: 43 Resp: 61314

Ion Ratio Lower Upper

43 100

58 10.3 31.8 47.6#





#54

cis-1,3-Dichloropropene

Concen: 5.158 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. 0.18 min

Lab File: VX011764.D

Acq: 22 Aug 2019 16:08

Instrument :

MSVOA_X

ClientSampled :

T4-D-(2)

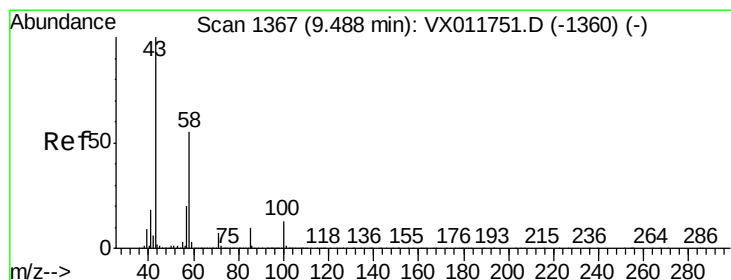
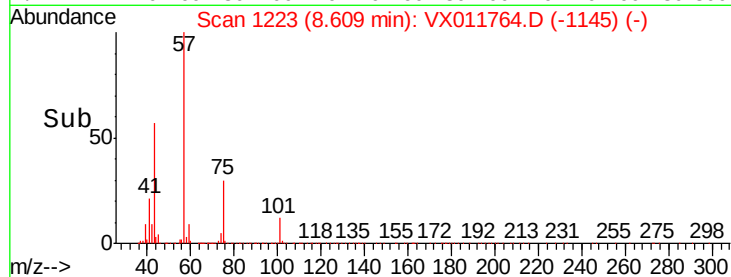
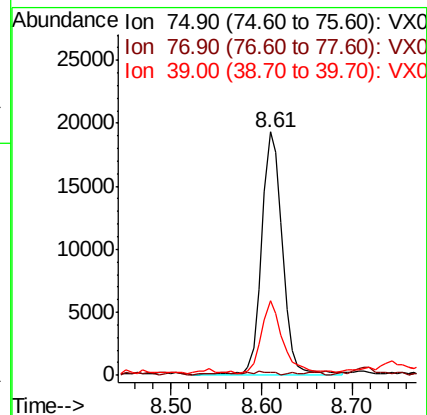
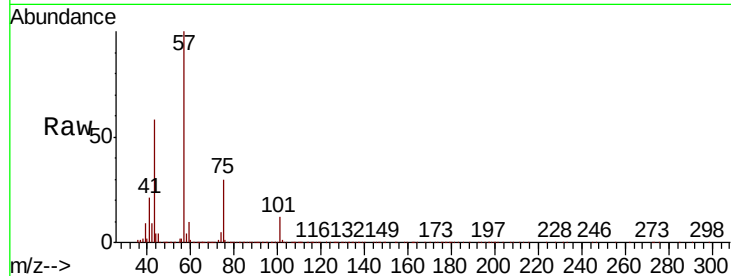
Tgt Ion: 75 Resp: 30928

Ion Ratio Lower Upper

75 100

77 1.0 25.4 38.2#

39 29.9 36.2 54.4#



#59

2-Hexanone

Concen: 15.972 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.05 min

Lab File: VX011764.D

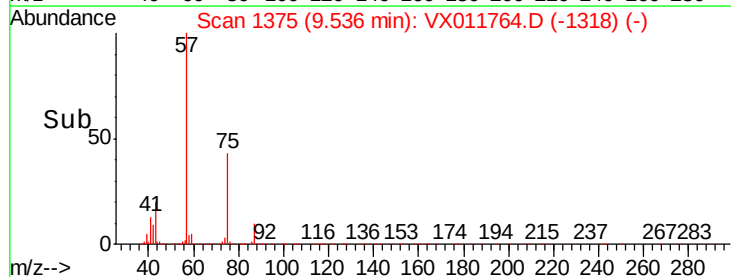
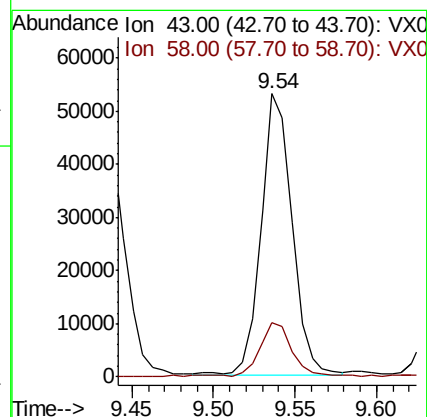
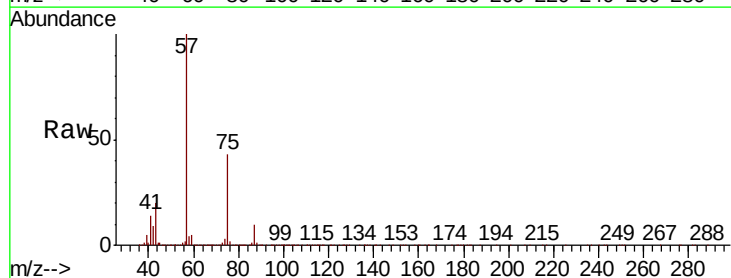
Acq: 22 Aug 2019 16:08

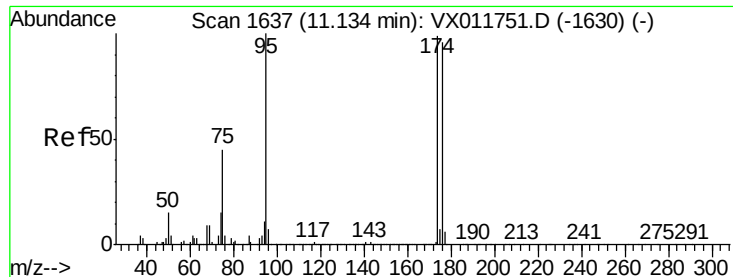
Tgt Ion: 43 Resp: 70197

Ion Ratio Lower Upper

43 100

58 19.6 27.7 83.1#





#62

4-Bromofluorobenzene

Concen: 43.582 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011764.D

Acq: 22 Aug 2019 16:08

Instrument :

MSVOA_X

ClientSampled :

T4-D-(2)

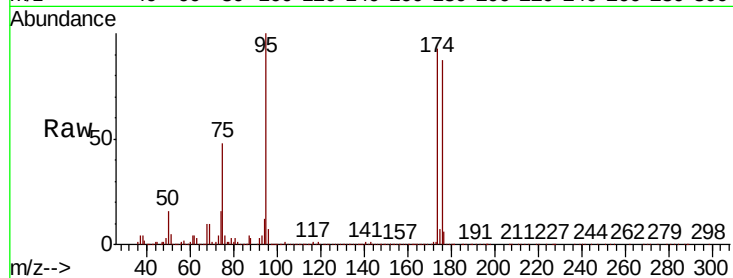
Tgt Ion: 95 Resp: 251379

Ion Ratio Lower Upper

95 100

174 99.5 0.0 197.4

176 95.7 0.0 194.4

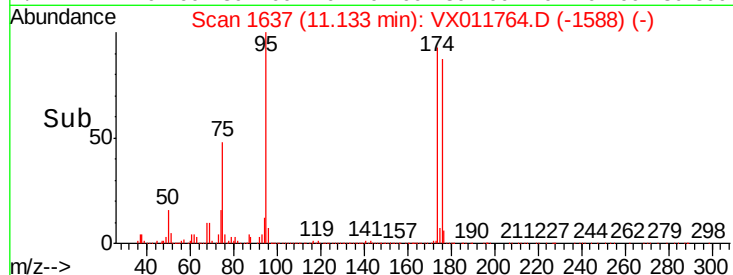


Abundance Ion 94.90 (94.60 to 95.60): VX011751.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX011751.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX011751.D (-1630) (-)

Time-->

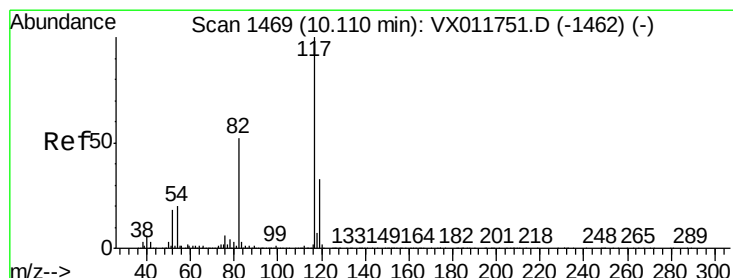


Abundance Ion 94.90 (94.60 to 95.60): VX011764.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX011764.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX011764.D (-1588) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX011764.D

Acq: 22 Aug 2019 16:08

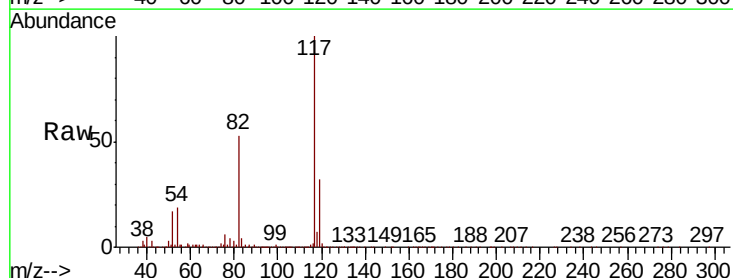
Tgt Ion: 117 Resp: 560451

Ion Ratio Lower Upper

117 100

82 52.8 41.7 62.5

119 31.8 26.2 39.2

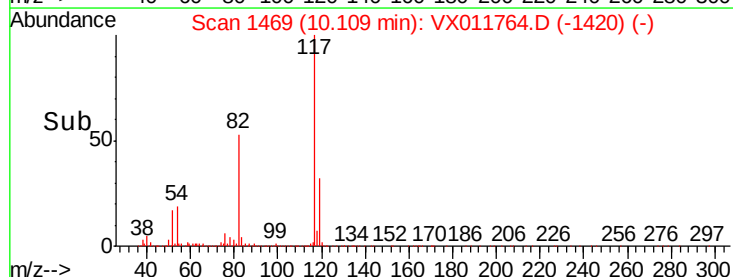


Abundance Ion 116.90 (116.60 to 117.60): VX011751.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX011751.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX011751.D (-1462) (-)

Time-->

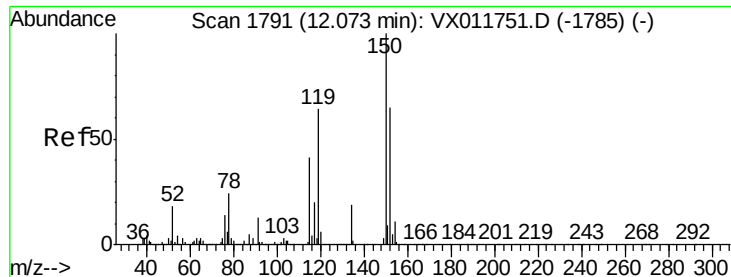


Abundance Ion 116.90 (116.60 to 117.60): VX011764.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX011764.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX011764.D (-1420) (-)

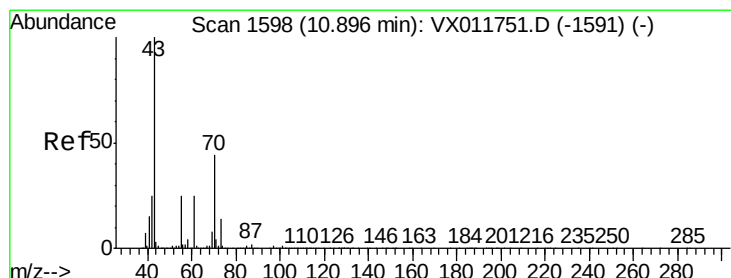
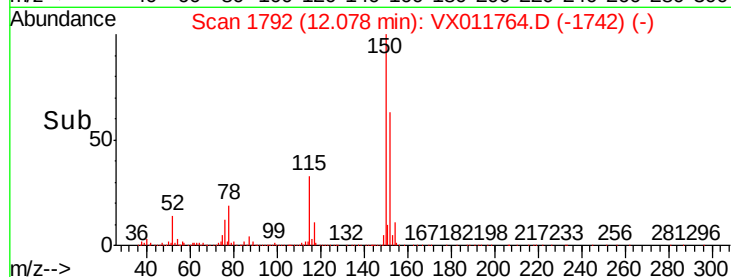
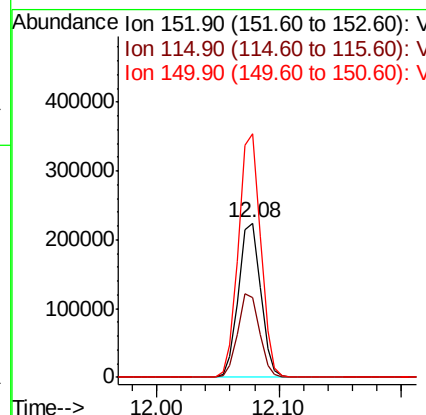
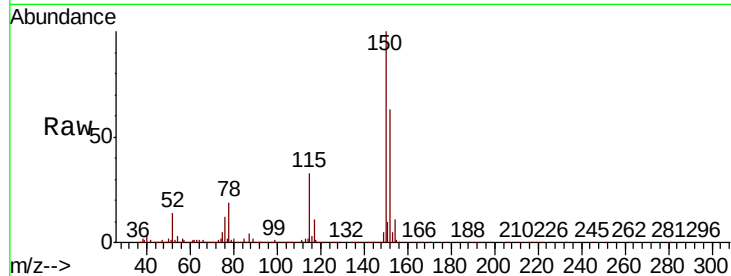
Time-->



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.08 min Scan# 1792
 Delta R.T. 0.01 min
 Lab File: VX011764.D
 Acq: 22 Aug 2019 16:08

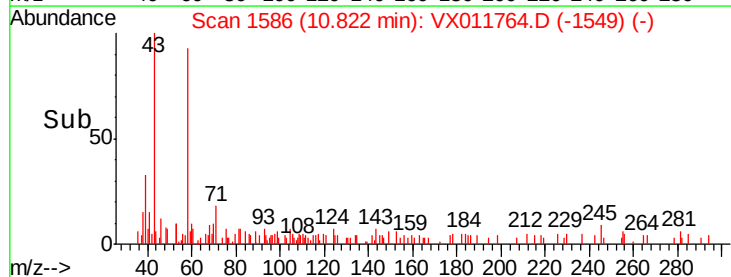
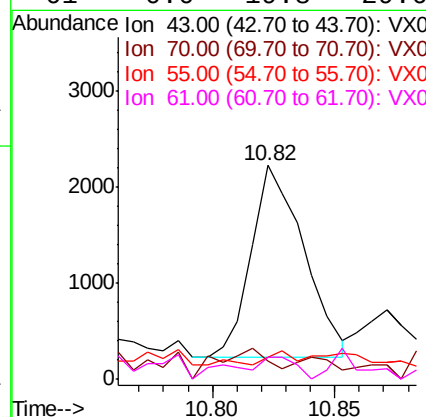
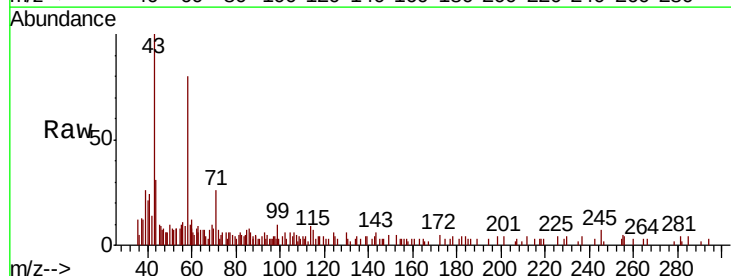
Instrument :
 MSVOA_X
 ClientSampleId :
 T4-D-(2)

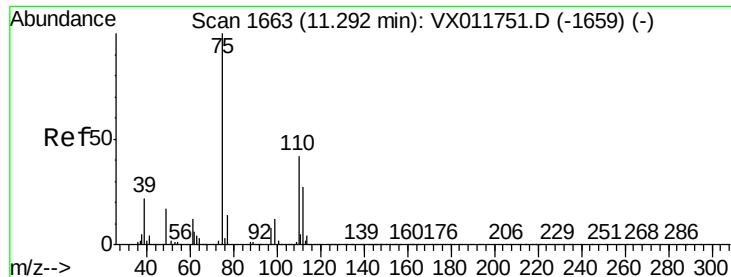
Tgt Ion	Ratio	Lower	Upper
152	100		
115	52.7	37.3	111.8
150	157.5	0.0	343.0



#74
 N-aryl acetate
 Concen: 0.459 ug/l
 RT: 10.82 min Scan# 1586
 Delta R.T. -0.07 min
 Lab File: VX011764.D
 Acq: 22 Aug 2019 16:08

Tgt Ion	Ratio	Lower	Upper
43	100		
70	15.3	34.8	52.2#
55	3.6	19.5	29.3#
61	0.0	19.8	29.6#





#76

1,2,3-Trichloropropane

Concen: 24.215 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011764.D

Acq: 22 Aug 2019 16:08

Instrument :

MSVOA_X

ClientSampleId :

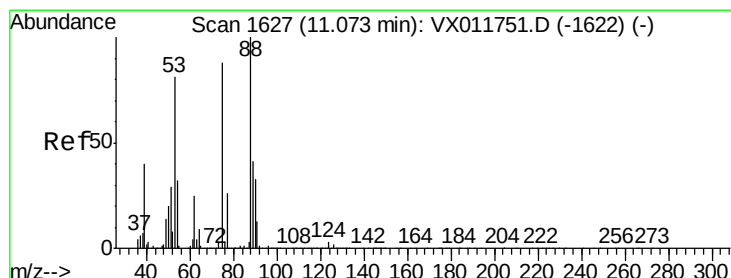
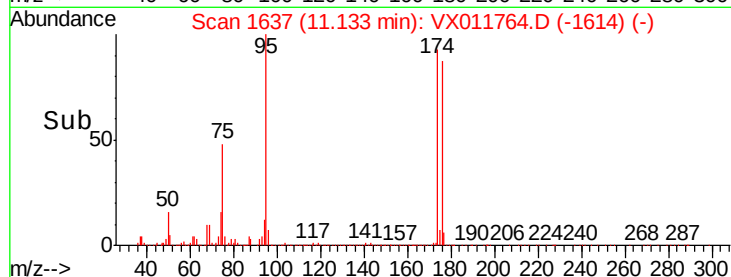
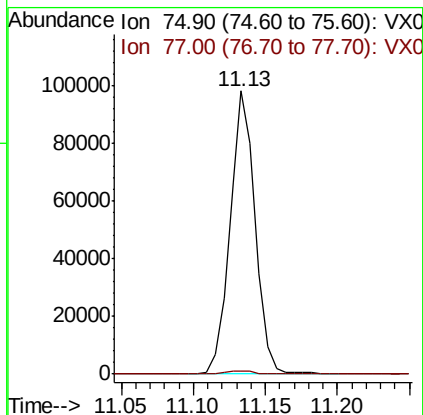
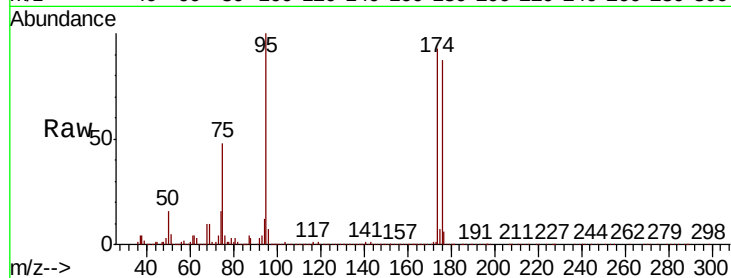
T4-D-(2)

Tgt Ion: 75 Resp: 119311

Ion Ratio Lower Upper

75 100

77 2.0 21.1 63.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 73.027 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011764.D

Acq: 22 Aug 2019 16:08

Tgt Ion: 75 Resp: 119311

Ion Ratio Lower Upper

75 100

53 0.0 77.1 115.7#

89 0.0 38.5 57.7#

