

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX082219\
 Data File : VX011778.D
 Acq On : 22 Aug 2019 21:37
 Operator : JC/SP
 Sample : K4403-24
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 T1-H4(0)

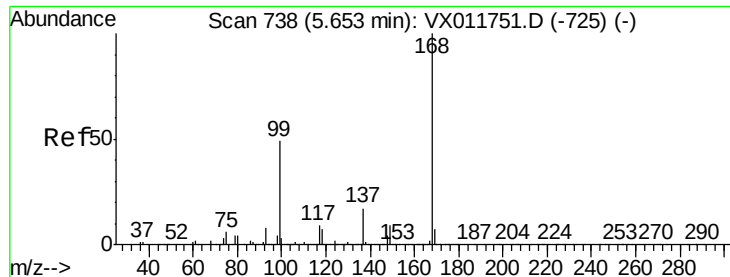
Quant Time: Aug 23 02:06:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082219W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 23 01:48:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	451467	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	600573	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	558604	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	254120	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	198960	43.87	ug/l	0.00
Spiked Amount			Recovery	=	87.74%	
35) Dibromofluoromethane	5.49	113	180106	46.38	ug/l	0.00
Spiked Amount			Recovery	=	92.76%	
50) Toluene-d8	8.71	98	691568	51.05	ug/l	0.00
Spiked Amount			Recovery	=	102.10%	
62) 4-Bromofluorobenzene	11.13	95	238201	44.49	ug/l	0.00
Spiked Amount			Recovery	=	88.98%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	593	0.291	ug/l #	30
6) Chloroethane	1.60	64	985	0.456	ug/l #	80
8) Diethyl Ether	2.18	74	507	0.254	ug/l	65
11) Tert butyl alcohol	3.01	59	4332	4.834	ug/l #	72
13) Acrolein	2.28	56	139	0.401	ug/l #	16
16) Acetone	2.44	43	7438	3.770	ug/l	91
18) Methyl Acetate	2.77	43	3568	0.667	ug/l	100
20) Methylene Chloride	2.85	84	8145	2.019	ug/l	96
25) 2-Butanone	4.69	43	1391	0.491	ug/l #	74
36) 1,1-Dichloropropene	5.65	75	23627	5.017	ug/l #	51
38) Carbon Tetrachloride	5.65	117	36409	6.822	ug/l #	17
43) Isopropyl Acetate	6.44	43	62784	7.783	ug/l	98
48) Methyl methacrylate	7.68	41	3593	0.895	ug/l #	18
49) 1,4-Dioxane	7.74	88	113	1.016	ug/l #	26
51) 4-Methyl-2-Pentanone	8.61	43	56748	10.676	ug/l #	51
54) cis-1,3-Dichloropropene	8.61	75	28173	5.062	ug/l #	59
59) 2-Hexanone	9.54	43	66332	16.259	ug/l #	53
74) N-amyl acetate	10.82	43	2835	0.478	ug/l #	54
76) 1,2,3-Trichloropropane	11.13	75	114538	25.687	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	114538	77.466	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.00 min

Lab File: VX011778.D

Acq: 22 Aug 2019 21:37

Instrument :

MSVOA_X

ClientSampleId :

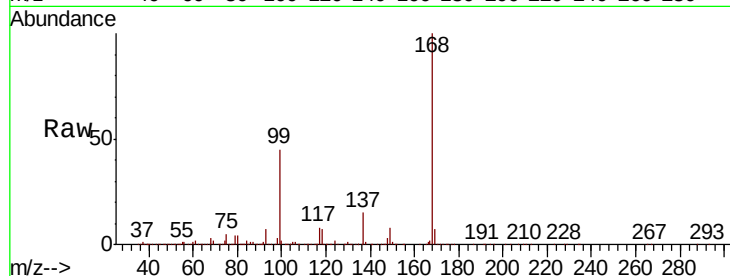
T1-H4-(0)

Tgt Ion:168 Resp: 451467

Ion Ratio Lower Upper

168 100

99 44.5 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

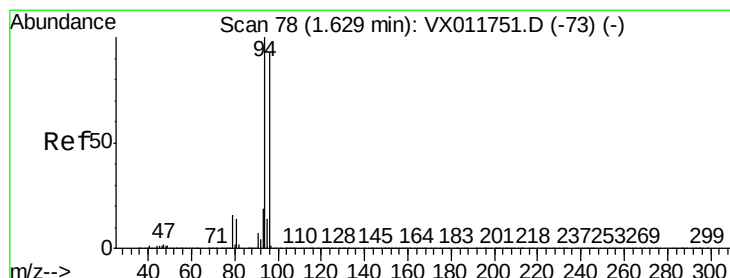
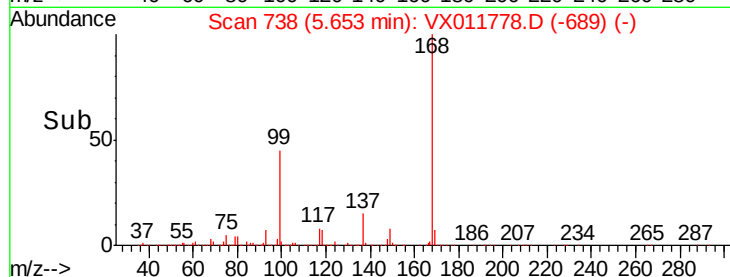
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.291 ug/l

RT: 1.63 min Scan# 78

Delta R.T. -0.00 min

Lab File: VX011778.D

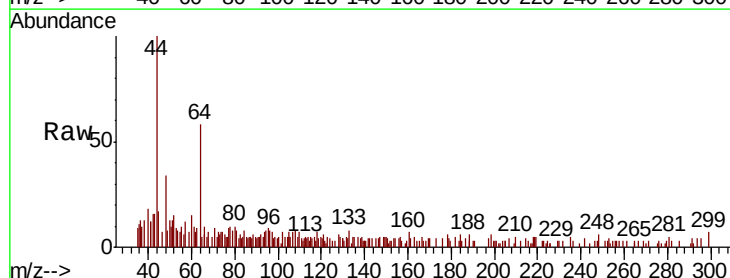
Acq: 22 Aug 2019 21:37

Tgt Ion: 94 Resp: 593

Ion Ratio Lower Upper

94 100

96 25.2 74.1 111.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

400

300

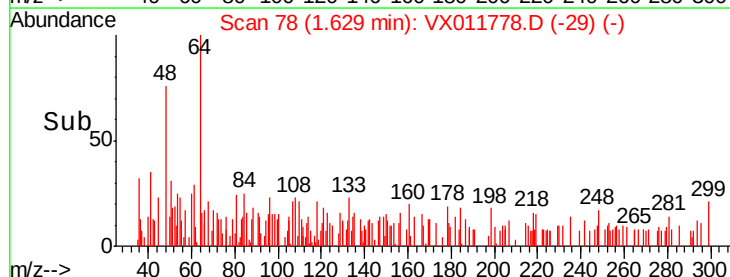
200

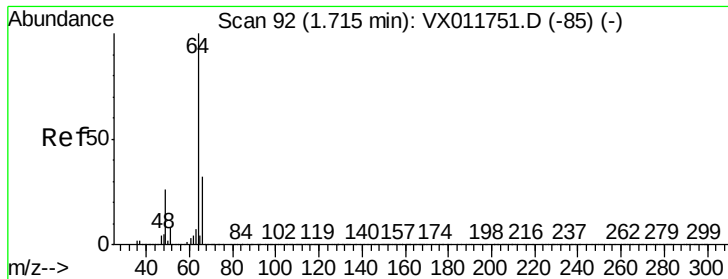
100

0

Time-->

1.60 1.65





#6

Chloroethane

Concen: 0.456 ug/l

RT: 1.60 min Scan# 73

Delta R.T. -0.12 min

Lab File: VX011778.D

Acq: 22 Aug 2019 21:37

Instrument :

MSVOA_X

ClientSampleId :

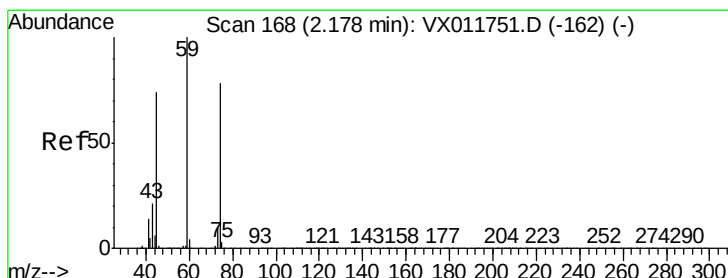
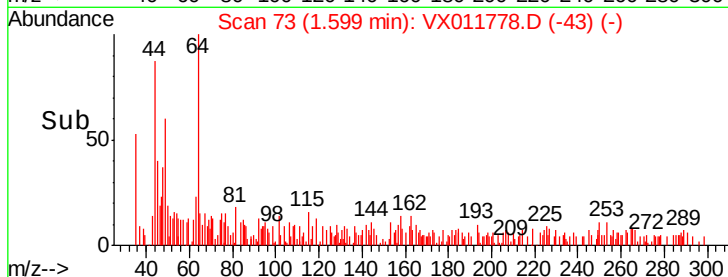
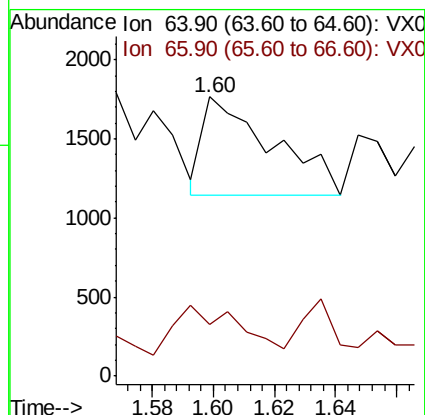
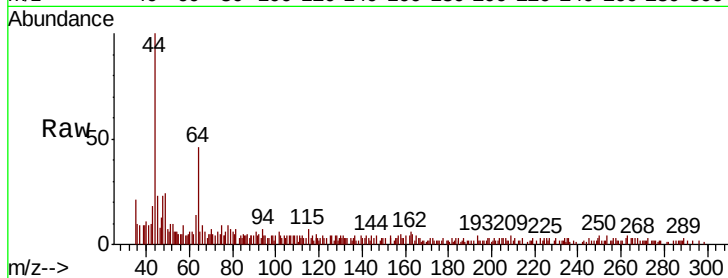
T1-H4-(0)

Tgt Ion: 64 Resp: 985

Ion Ratio Lower Upper

64 100

66 20.4 24.9 37.3#



#8

Diethyl Ether

Concen: 0.254 ug/l

RT: 2.18 min Scan# 168

Delta R.T. -0.00 min

Lab File: VX011778.D

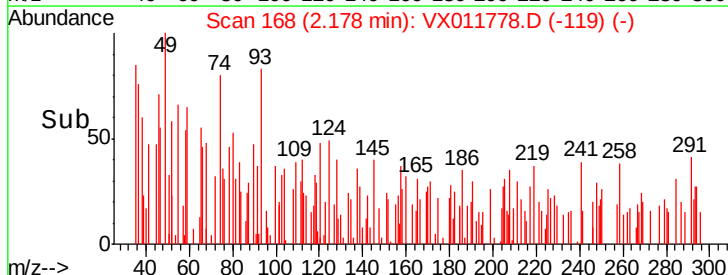
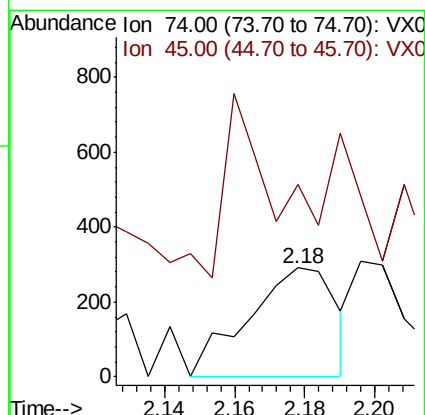
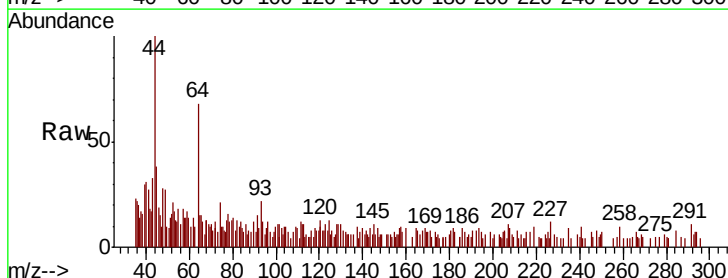
Acq: 22 Aug 2019 21:37

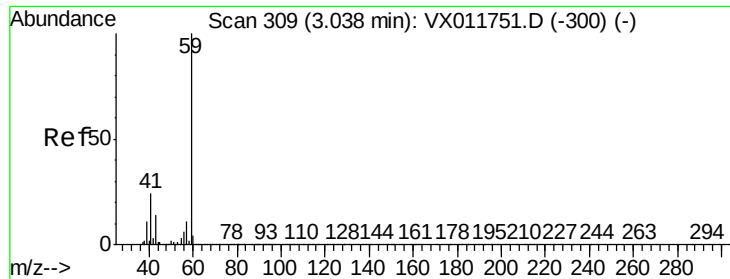
Tgt Ion: 74 Resp: 507

Ion Ratio Lower Upper

74 100

45 60.0 46.7 140.0

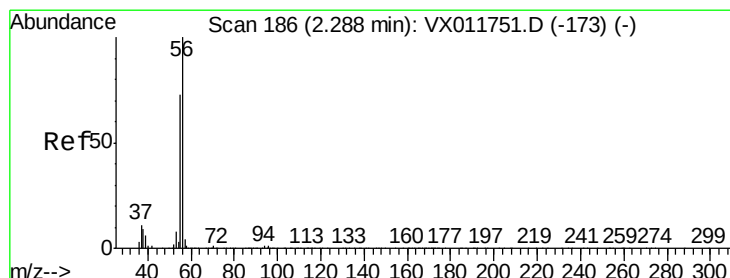
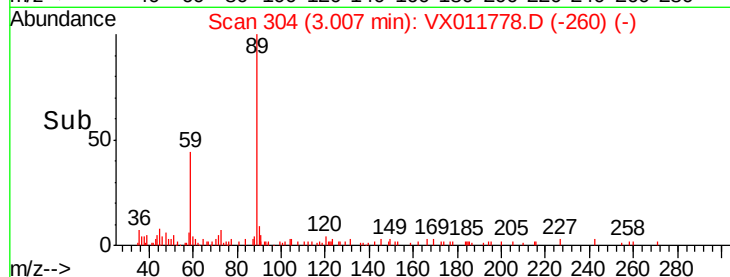
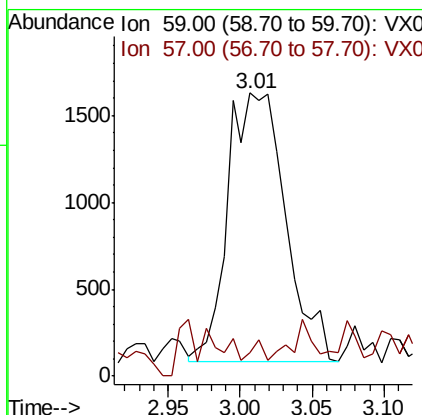
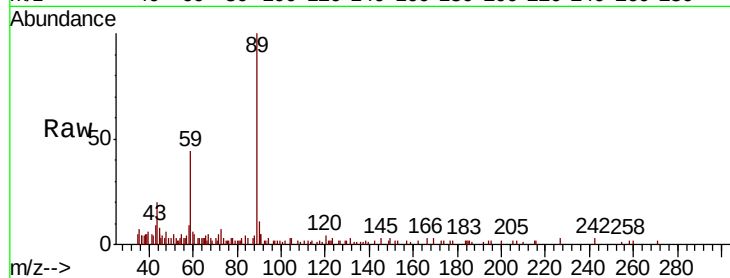




#11
Tert butyl alcohol
Concen: 4.834 ug/l
RT: 3.01 min Scan# 304
Delta R.T. -0.03 min
Lab File: VX011778.D
Acq: 22 Aug 2019 21:37

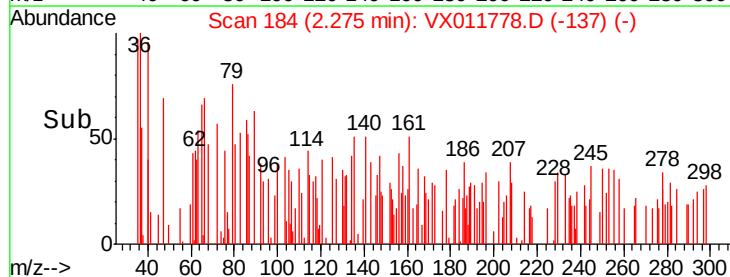
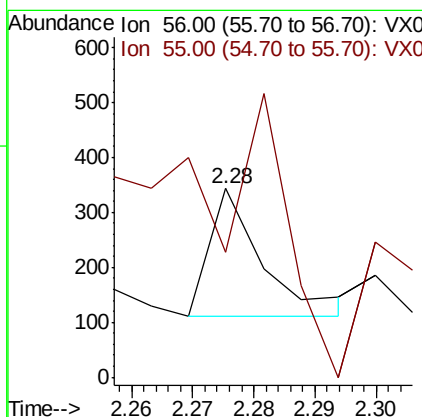
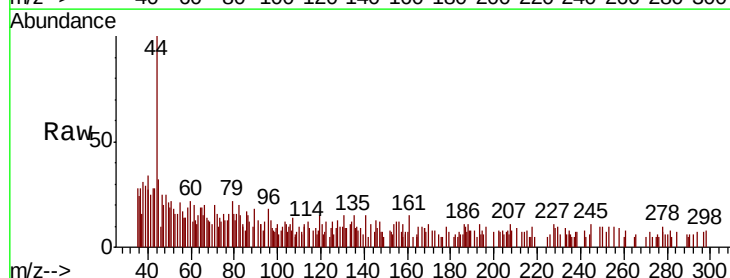
Instrument :
MSVOA_X
ClientSampleId :
T1-H4-(0)

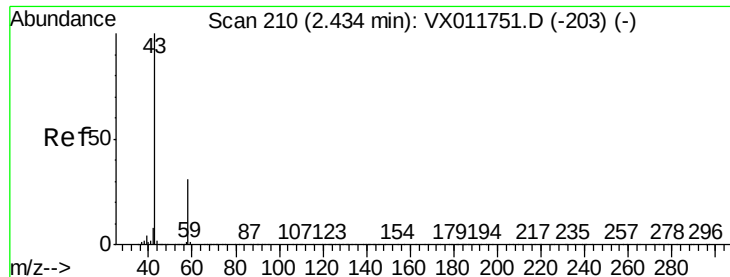
Tgt Ion: 59 Resp: 4332
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



#13
Acrolein
Concen: 0.401 ug/l
RT: 2.28 min Scan# 184
Delta R.T. -0.01 min
Lab File: VX011778.D
Acq: 22 Aug 2019 21:37

Tgt Ion: 56 Resp: 139
Ion Ratio Lower Upper
56 100
55 0.0 54.8 82.2#

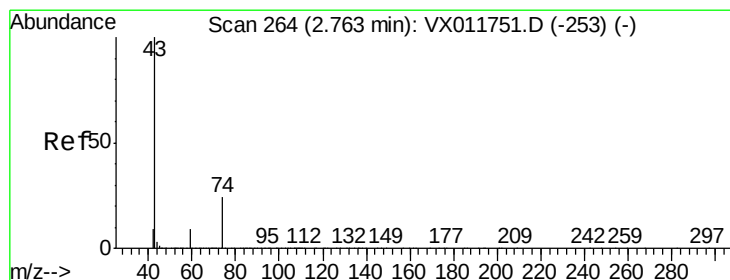
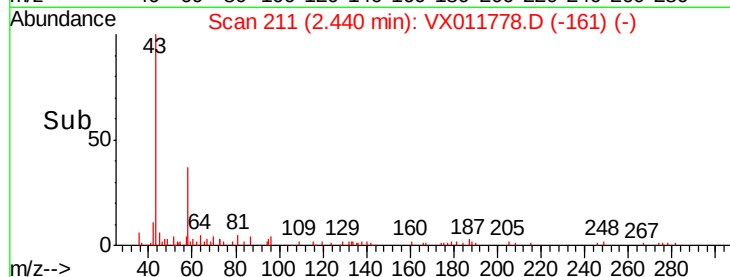
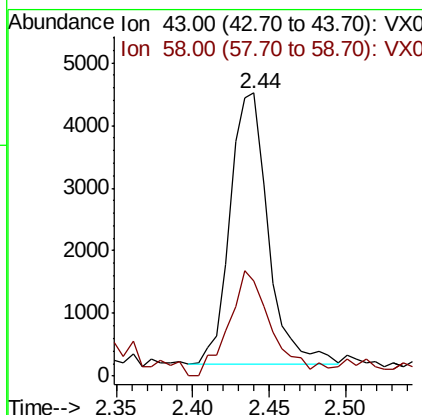
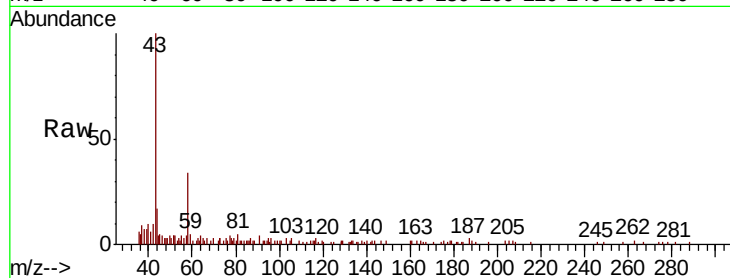




#16
Acetone
Concen: 3.770 ug/l
RT: 2.44 min Scan# 211
Delta R.T. 0.01 min
Lab File: VX011778.D
Acq: 22 Aug 2019 21:37

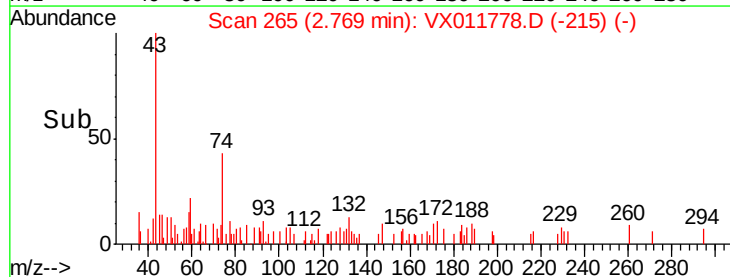
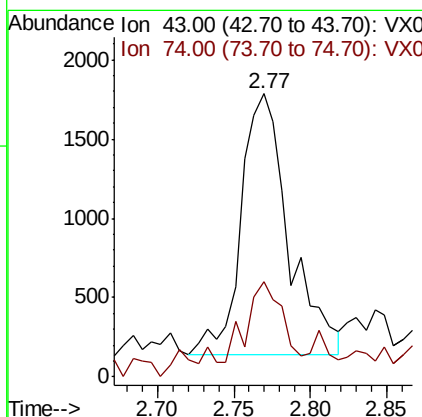
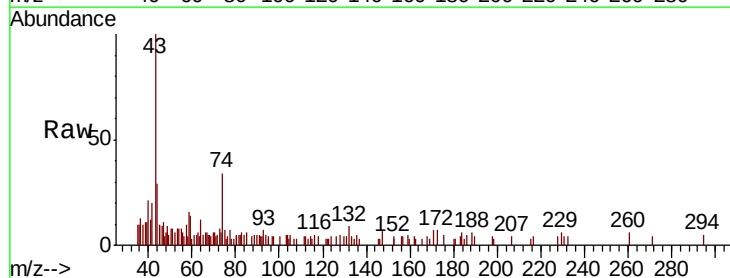
Instrument :
MSVOA_X
ClientSampleId :
T1-H4-(0)

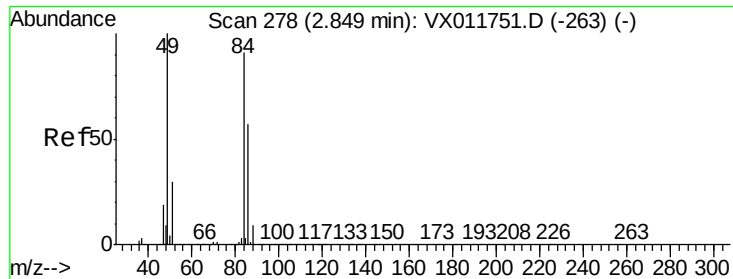
Tgt Ion: 43 Resp: 7438
Ion Ratio Lower Upper
43 100
58 35.2 24.4 36.6



#18
Methyl Acetate
Concen: 0.667 ug/l
RT: 2.77 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX011778.D
Acq: 22 Aug 2019 21:37

Tgt Ion: 43 Resp: 3568
Ion Ratio Lower Upper
43 100
74 24.5 19.5 29.3

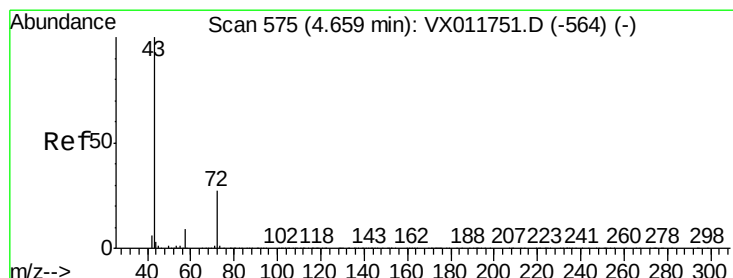
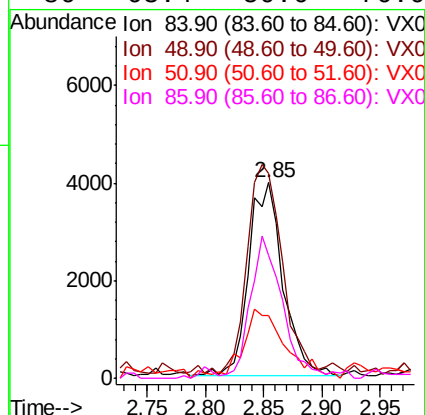
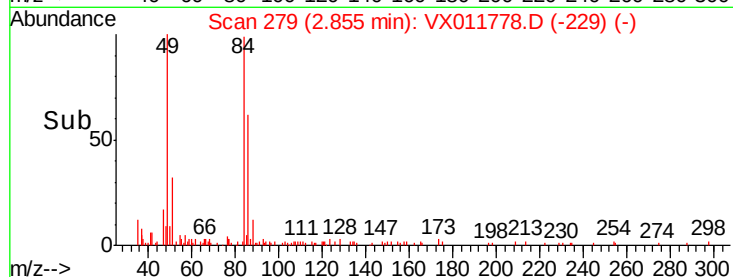
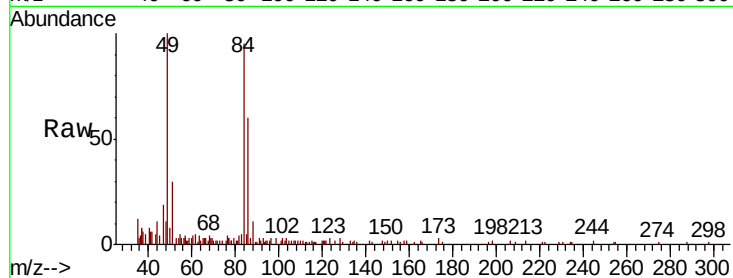




#20
Methylene Chloride
Concen: 2.019 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.01 min
Lab File: VX011778.D
Acq: 22 Aug 2019 21:37

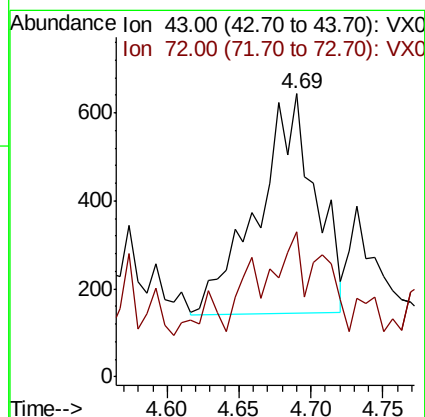
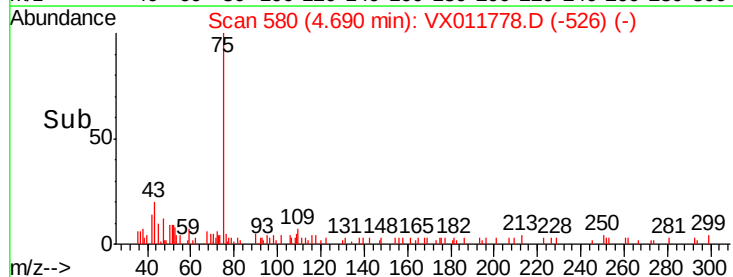
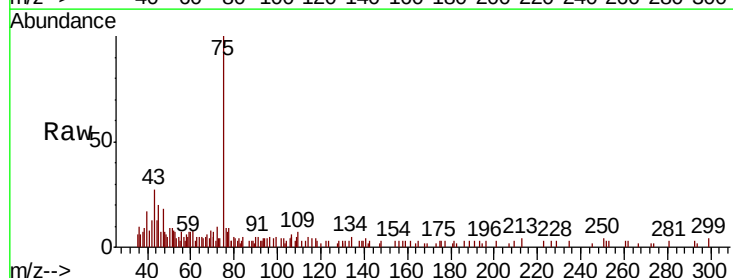
Instrument :
MSVOA_X
ClientSampleId :
T1-H4-(0)

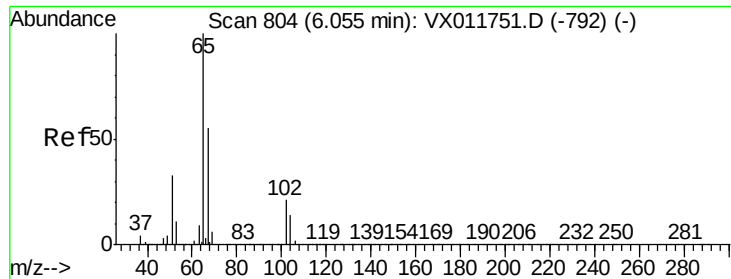
Tgt Ion:	84	Resp:	8145
Ion	Ratio	Lower	Upper
84	100		
49	102.9	88.3	132.5
51	32.2	26.2	39.2
86	63.4	50.6	76.0



#25
2-Butanone
Concen: 0.491 ug/l
RT: 4.69 min Scan# 580
Delta R.T. 0.03 min
Lab File: VX011778.D
Acq: 22 Aug 2019 21:37

Tgt Ion:	43	Resp:	1391
Ion	Ratio	Lower	Upper
43	100		
72	40.5	21.8	32.6#





#33

1,2-Dichloroethane-d4

Concen: 43.870 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.00 min

Lab File: VX011778.D

Acq: 22 Aug 2019 21:37

Instrument :

MSVOA_X

ClientSampleId :

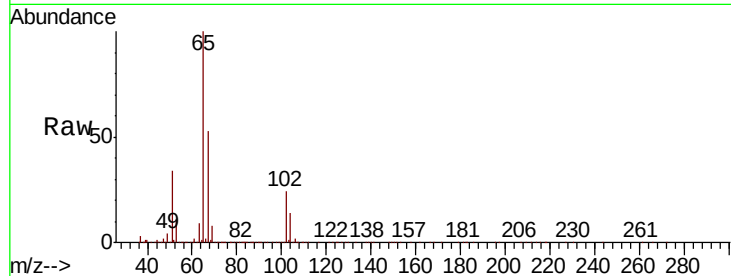
T1-H4-(0)

Tgt Ion: 65 Resp: 198960

Ion Ratio Lower Upper

65 100

67 52.0 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

80000

60000

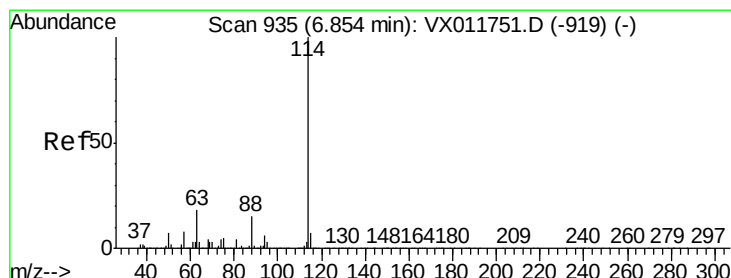
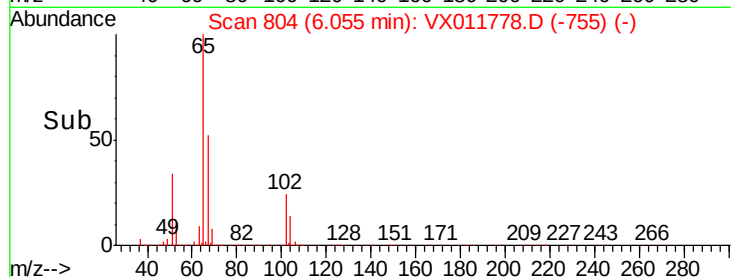
40000

20000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.00 min

Lab File: VX011778.D

Acq: 22 Aug 2019 21:37

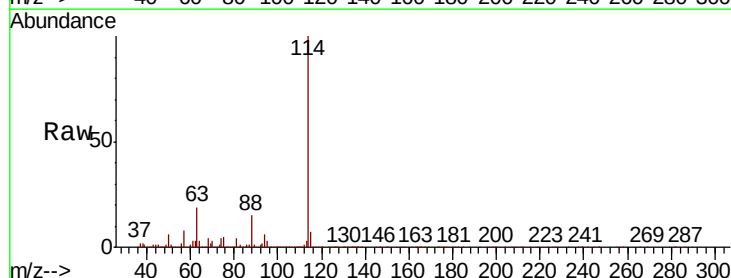
Tgt Ion: 114 Resp: 600573

Ion Ratio Lower Upper

114 100

63 18.6 0.0 36.8

88 15.0 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

6.85

300000

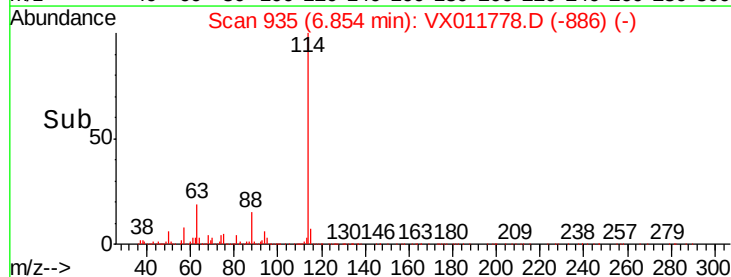
200000

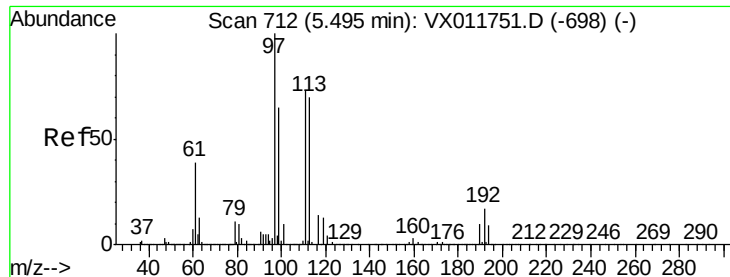
100000

0

Time-->

6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 46.377 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.00 min

Lab File: VX011778.D

Acq: 22 Aug 2019 21:37

Instrument :

MSVOA_X

ClientSampleId :

T1-H4-(0)

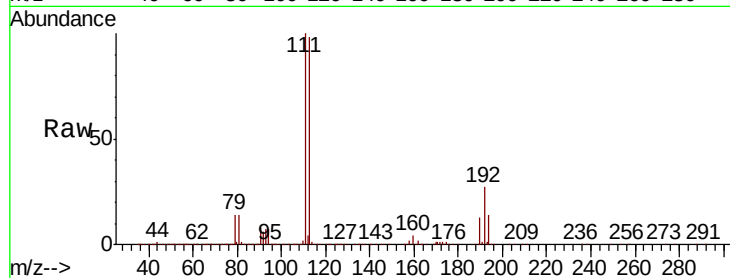
Tgt Ion:113 Resp: 180106

Ion Ratio Lower Upper

113 100

111 102.4 81.0 121.4

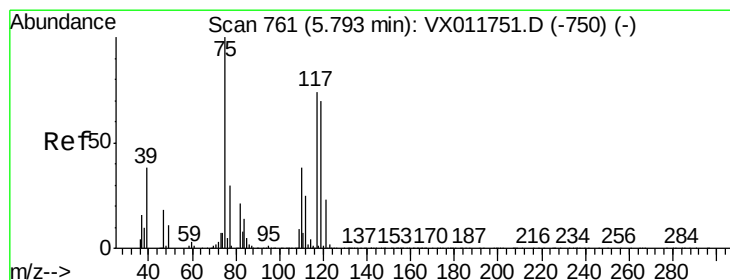
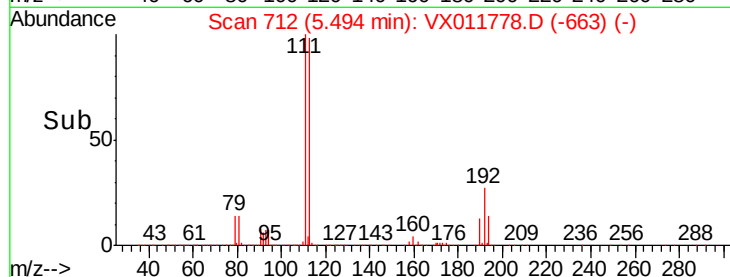
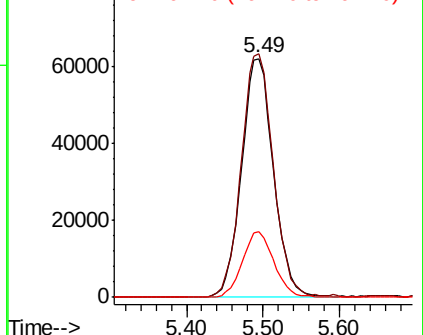
192 27.2 19.9 29.9



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: 5.017 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011778.D

Acq: 22 Aug 2019 21:37

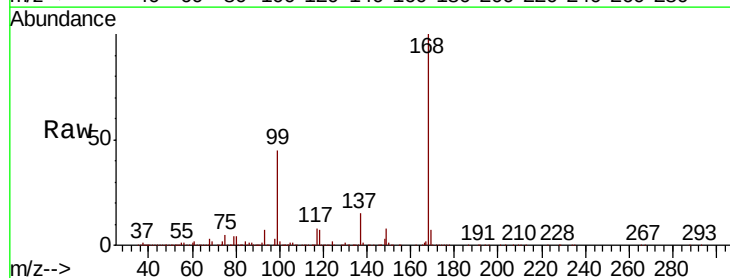
Tgt Ion: 75 Resp: 23627

Ion Ratio Lower Upper

75 100

110 11.7 19.0 57.0#

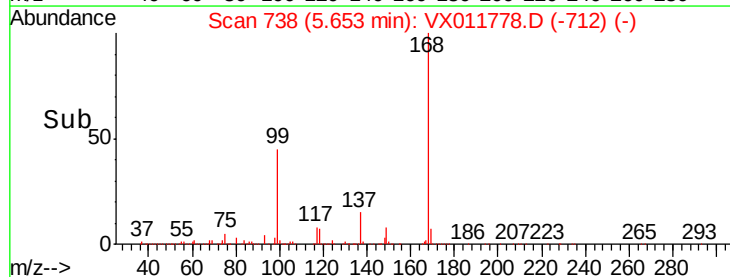
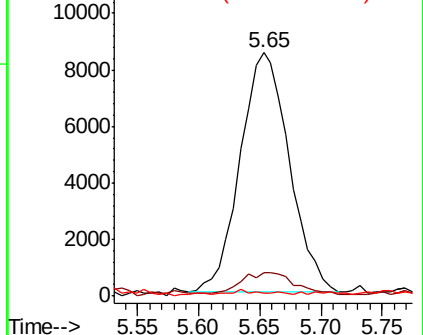
77 0.0 24.6 36.8#

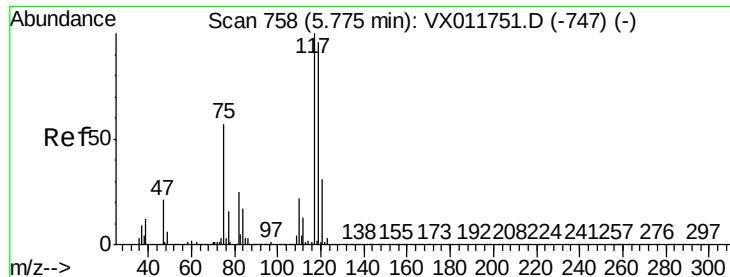


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

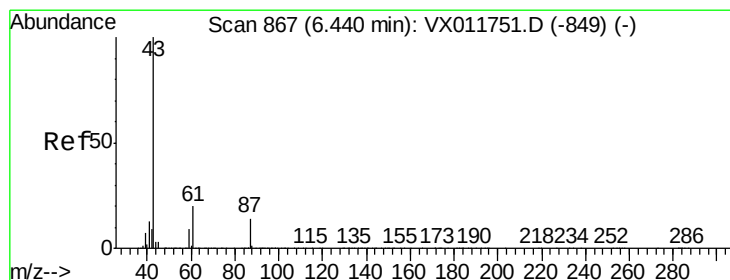
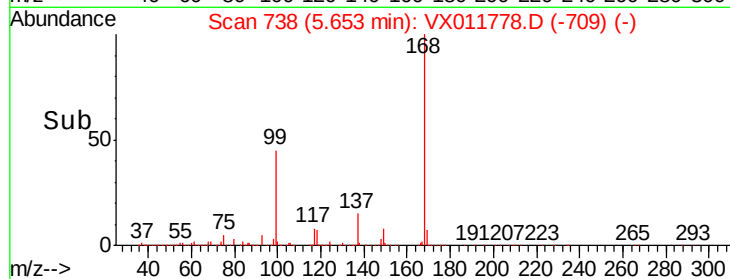
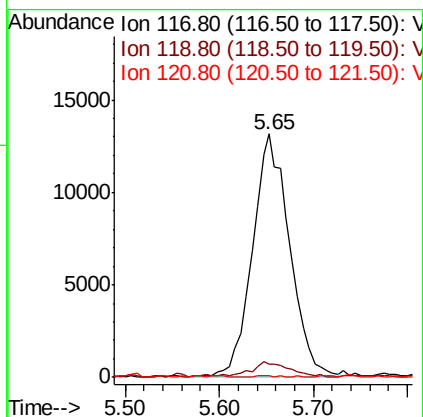
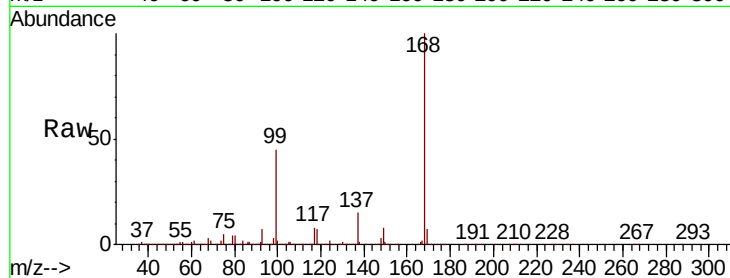




#38
Carbon Tetrachloride
Concen: 6.822 ug/l
RT: 5.65 min Scan# 738
Delta R.T. -0.12 min
Lab File: VX011778.D
Acq: 22 Aug 2019 21:37

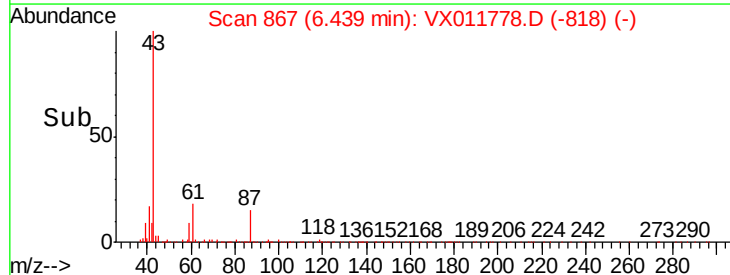
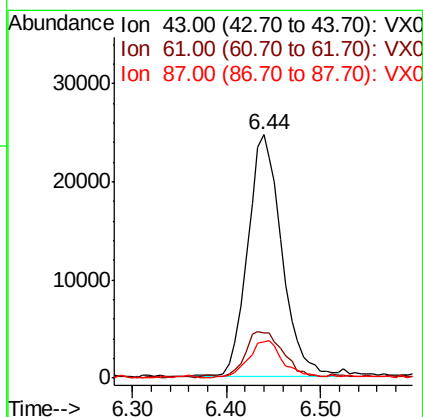
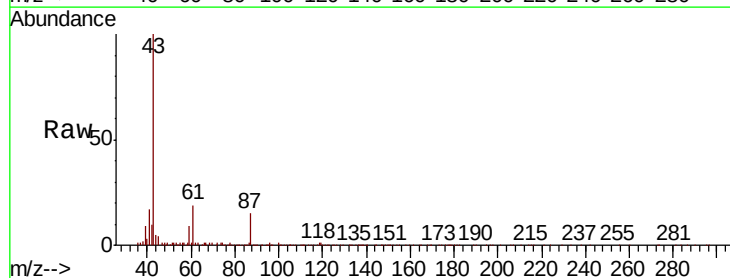
Instrument :
MSVOA_X
ClientSampleId :
T1-H4-(0)

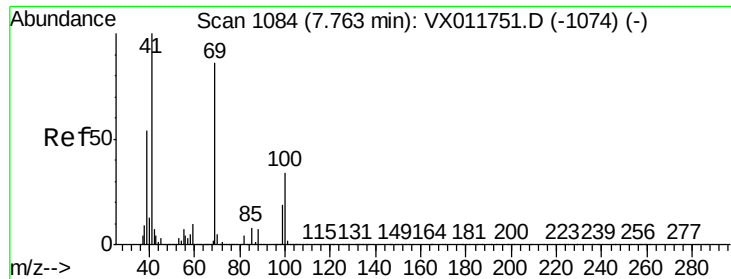
Tgt Ion: 117 Resp: 36409
Ion Ratio Lower Upper
117 100
119 5.4 76.6 114.8#
121 1.1 25.2 37.8#



#43
Isopropyl Acetate
Concen: 7.783 ug/l
RT: 6.44 min Scan# 867
Delta R.T. -0.00 min
Lab File: VX011778.D
Acq: 22 Aug 2019 21:37

Tgt Ion: 43 Resp: 62784
Ion Ratio Lower Upper
43 100
61 20.4 16.2 24.2
87 15.9 11.6 17.4

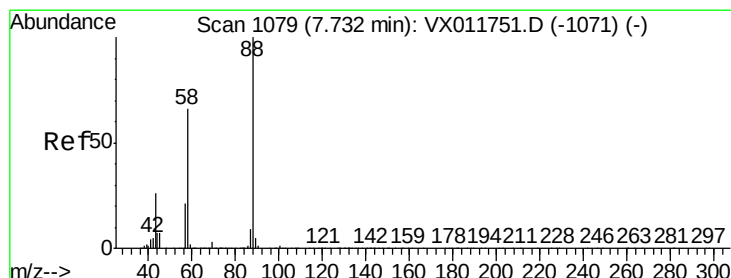
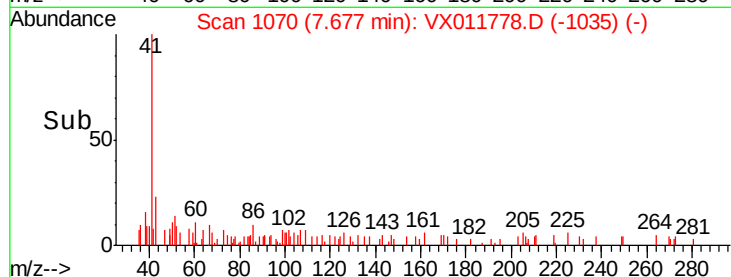
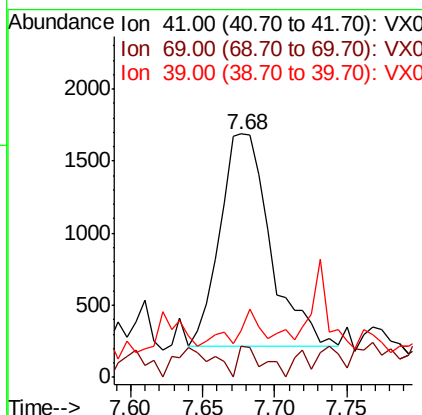
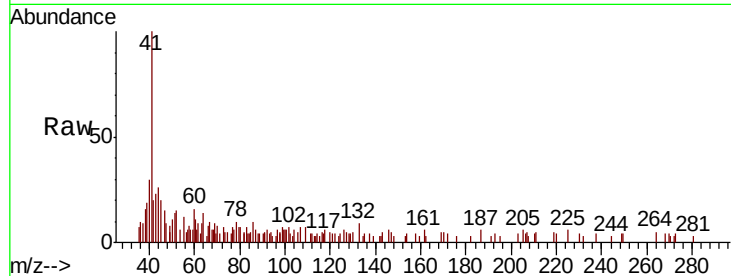




#48
Methyl methacrylate
Concen: 0.895 ug/l
RT: 7.68 min Scan# 1070
Delta R.T. -0.09 min
Lab File: VX011778.D
Acq: 22 Aug 2019 21:37

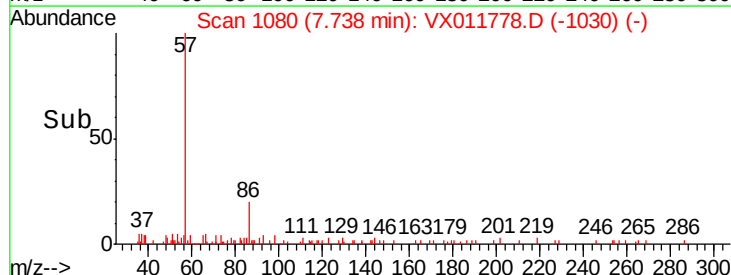
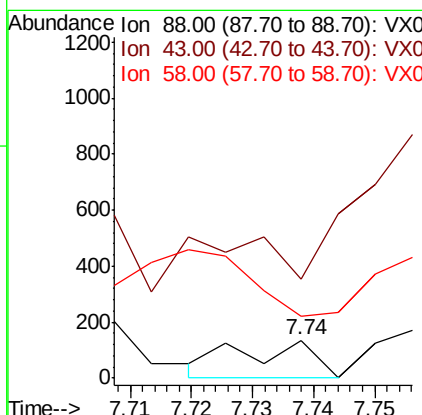
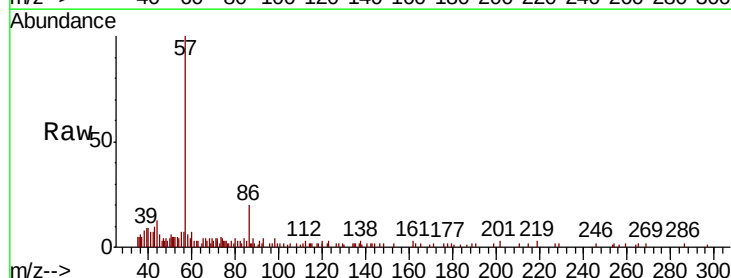
Instrument :
MSVOA_X
ClientSampleId :
T1-H4(0)

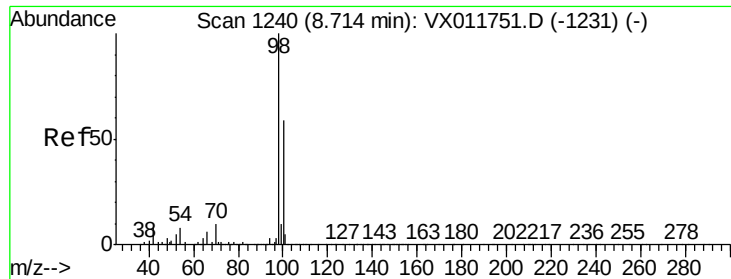
Tgt Ion: 41 Resp: 3593
Ion Ratio Lower Upper
41 100
69 7.3 69.4 104.2#
39 0.0 43.6 65.4#



#49
1,4-Dioxane
Concen: 1.016 ug/l
RT: 7.74 min Scan# 1080
Delta R.T. 0.01 min
Lab File: VX011778.D
Acq: 22 Aug 2019 21:37

Tgt Ion: 88 Resp: 113
Ion Ratio Lower Upper
88 100
43 0.0 24.6 37.0#
58 0.0 51.4 77.2#

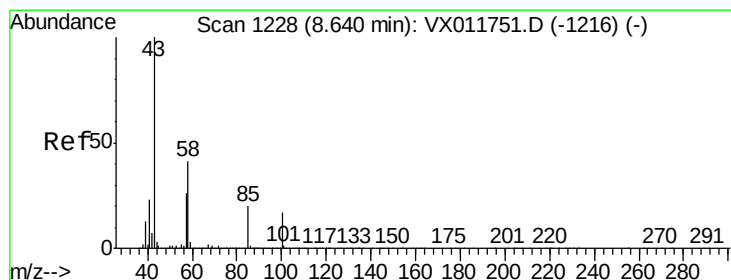
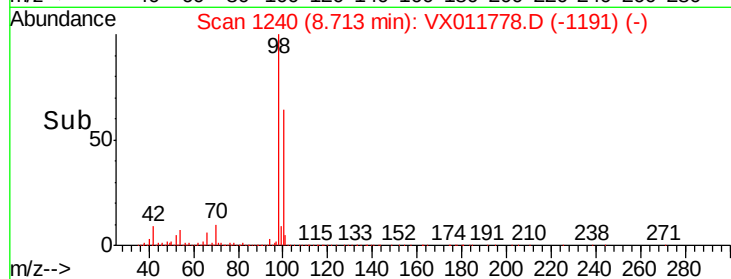
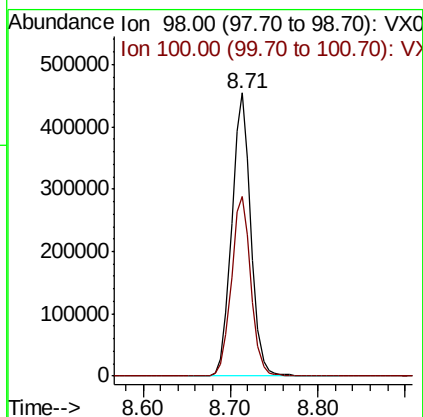
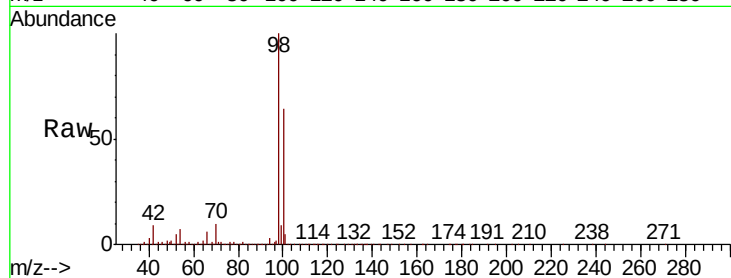




#50
Toluene-d8
Concen: 51.054 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011778.D
Acq: 22 Aug 2019 21:37

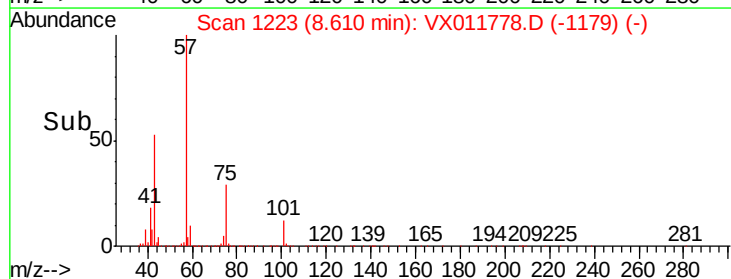
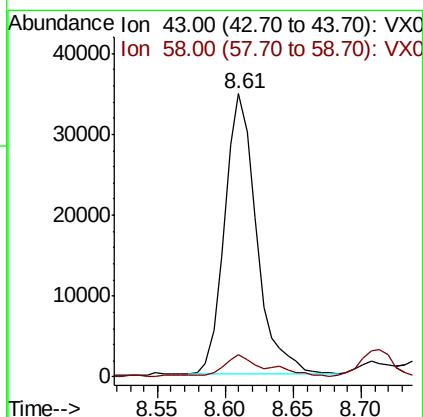
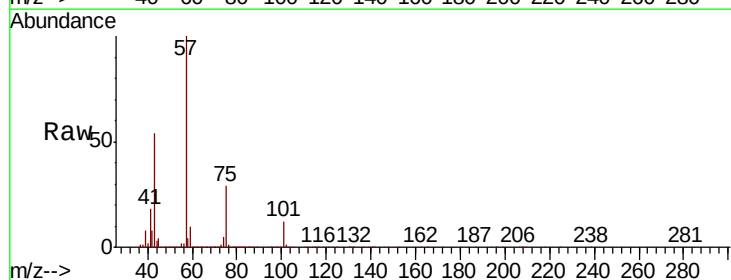
Instrument :
MSVOA_X
ClientSampleId :
T1-H4-(0)

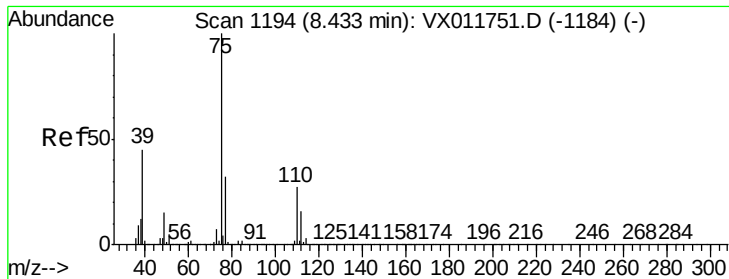
Tgt Ion: 98 Resp: 691568
Ion Ratio Lower Upper
98 100
100 65.0 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 10.676 ug/l
RT: 8.61 min Scan# 1223
Delta R.T. -0.03 min
Lab File: VX011778.D
Acq: 22 Aug 2019 21:37

Tgt Ion: 43 Resp: 56748
Ion Ratio Lower Upper
43 100
58 9.7 31.8 47.6#





#54

cis-1,3-Dichloropropene

Concen: 5.062 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. 0.18 min

Lab File: VX011778.D

Acq: 22 Aug 2019 21:37

Instrument :

MSVOA_X

ClientSampleId :

T1-H4-(0)

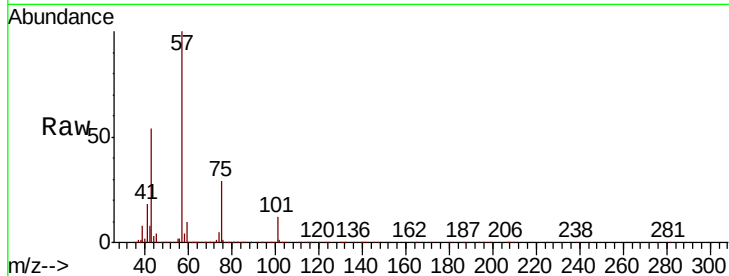
Tgt Ion: 75 Resp: 28173

Ion Ratio Lower Upper

75 100

77 0.2 25.4 38.2#

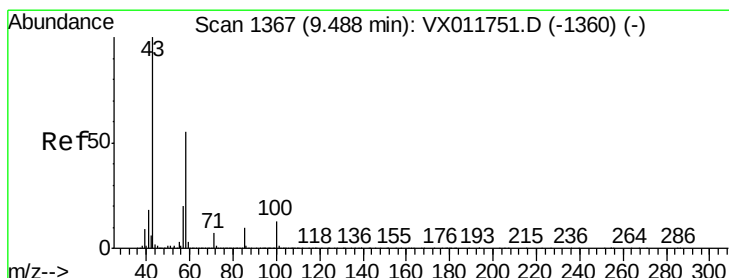
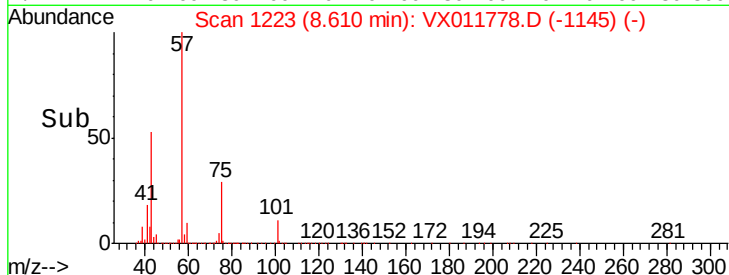
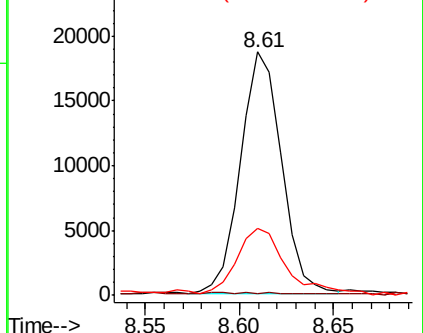
39 25.9 36.2 54.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#59

2-Hexanone

Concen: 16.259 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.05 min

Lab File: VX011778.D

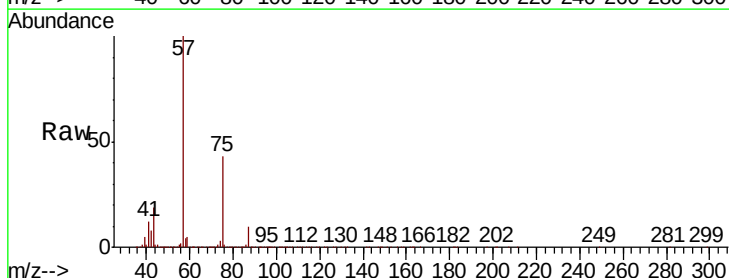
Acq: 22 Aug 2019 21:37

Tgt Ion: 43 Resp: 66332

Ion Ratio Lower Upper

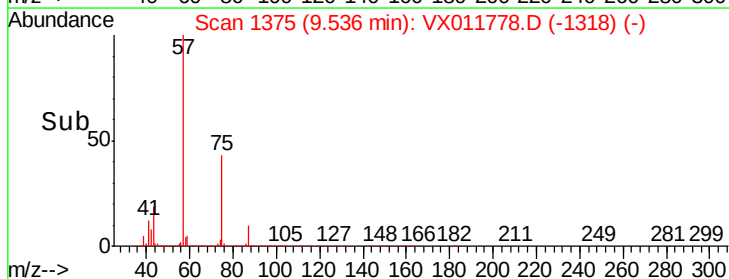
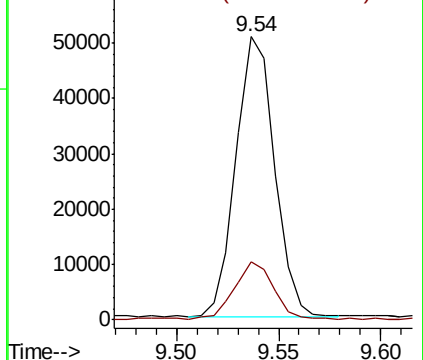
43 100

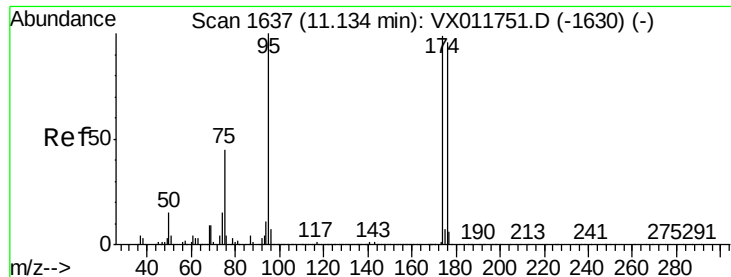
58 21.3 27.7 83.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 44.489 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011778.D

Acq: 22 Aug 2019 21:37

Instrument :

MSVOA_X

ClientSampleId :

T1-H4-(0)

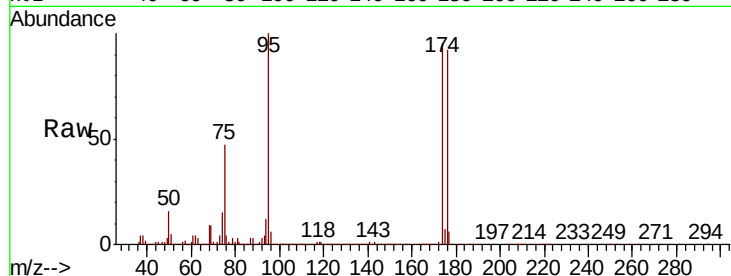
Tgt Ion: 95 Resp: 238201

Ion Ratio Lower Upper

95 100

174 97.4 0.0 197.4

176 94.9 0.0 194.4

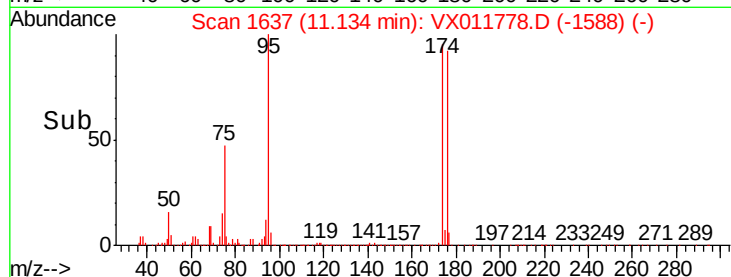


Abundance Ion 94.90 (94.60 to 95.60): VX011751.D (-1630) (-)

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

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

Time-->

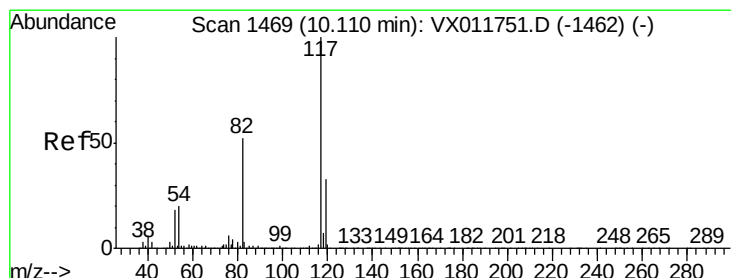


Abundance Ion 94.90 (94.60 to 95.60): VX011778.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX011778.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX011778.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: VX011778.D

Acq: 22 Aug 2019 21:37

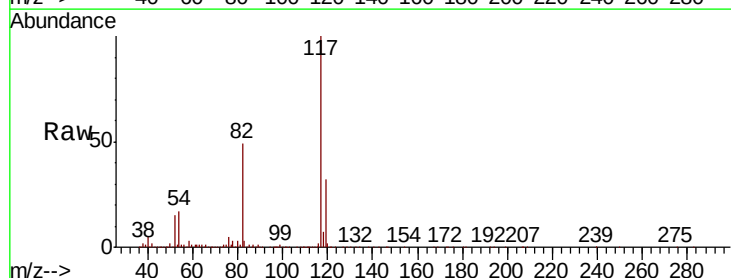
Tgt Ion: 117 Resp: 558604

Ion Ratio Lower Upper

117 100

82 49.4 41.7 62.5

119 31.7 26.2 39.2

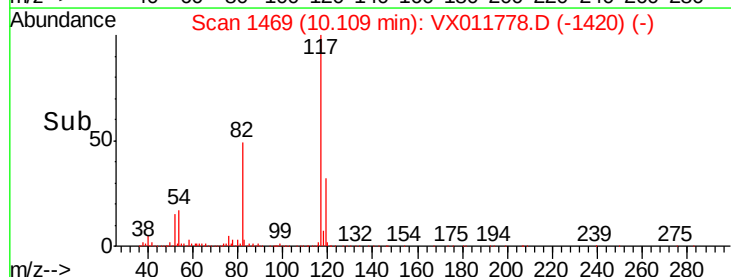


Abundance Ion 116.90 (116.60 to 117.60): VX011751.D (-1462) (-)

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

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

Time-->

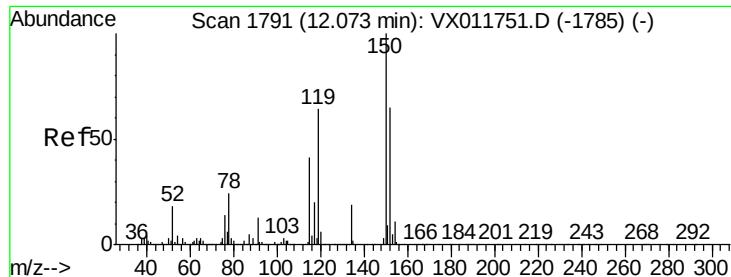


Abundance Ion 116.90 (116.60 to 117.60): VX011778.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX011778.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX011778.D (-1420) (-)

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1791

Delta R.T. -0.00 min

Lab File: VX011778.D

Acq: 22 Aug 2019 21:37

Instrument :

MSVOA_X

ClientSampleId :

T1-H4-(0)

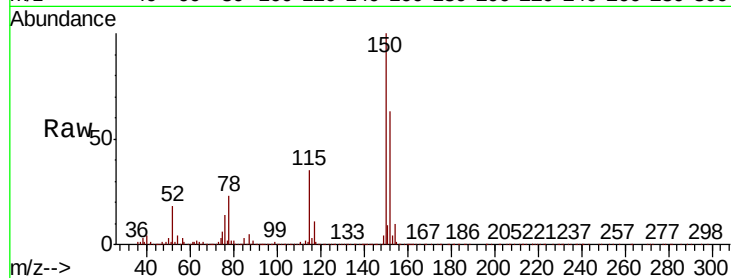
Tgt Ion:152 Resp: 254120

Ion Ratio Lower Upper

152 100

115 54.2 37.3 111.8

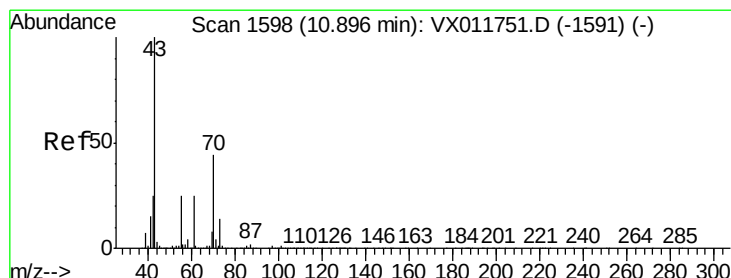
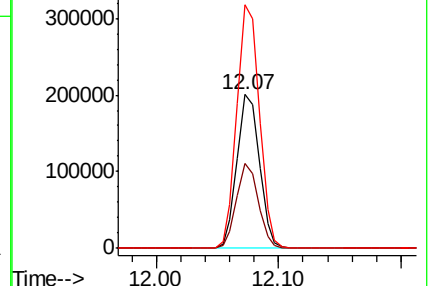
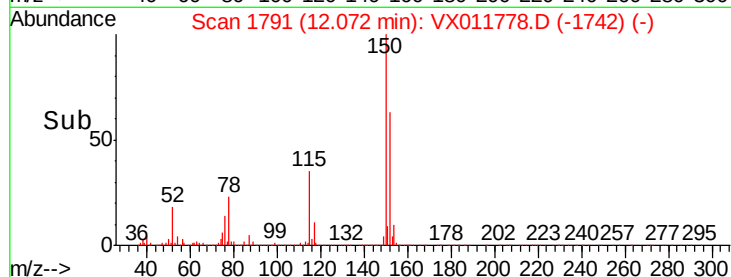
150 158.7 0.0 343.0



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



#74

N-amyl acetate

Concen: 0.478 ug/l

RT: 10.82 min Scan# 1586

Delta R.T. -0.07 min

Lab File: VX011778.D

Acq: 22 Aug 2019 21:37

Tgt Ion: 43 Resp: 2835

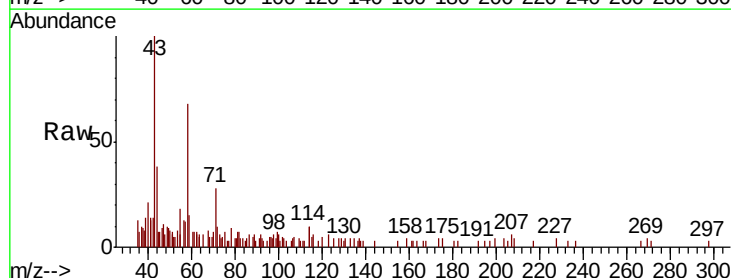
Ion Ratio Lower Upper

43 100

70 4.8 34.8 52.2#

55 0.0 19.5 29.3#

61 16.1 19.8 29.6#

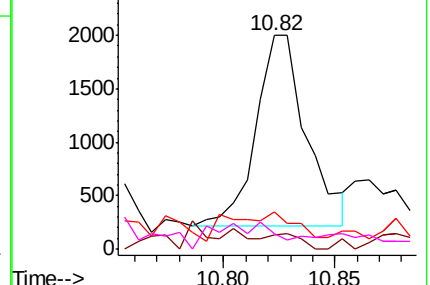
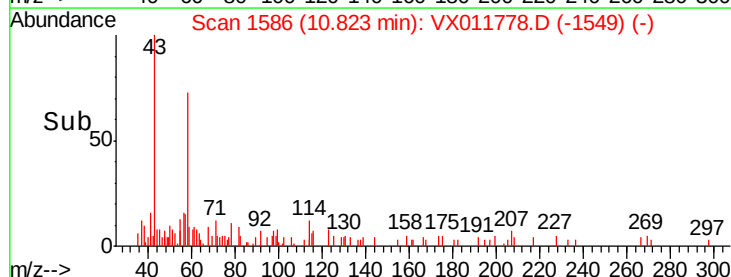


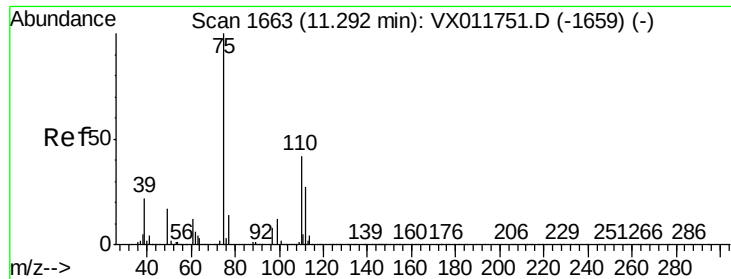
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

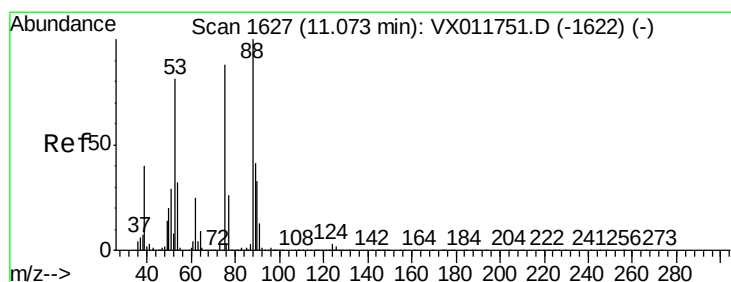
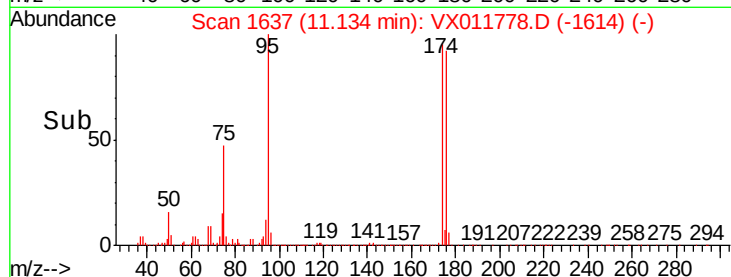
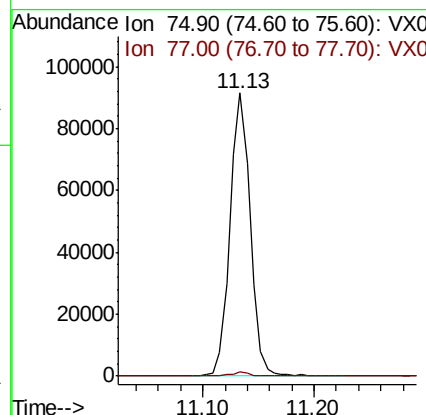
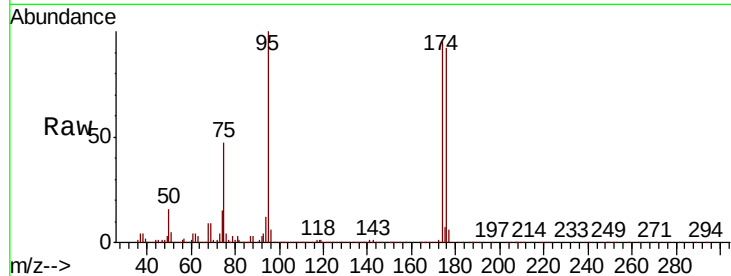




#76
 1,2,3-Trichloropropane
 Concen: 25.687 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX011778.D
 Acq: 22 Aug 2019 21:37

Instrument :
 MSVOA_X
 ClientSampled :
 T1-H4-(0)

Tgt Ion: 75 Resp: 114538
 Ion Ratio Lower Upper
 75 100
 77 1.2 21.1 63.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 77.466 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX011778.D
 Acq: 22 Aug 2019 21:37

Tgt Ion: 75 Resp: 114538
 Ion Ratio Lower Upper
 75 100
 53 0.6 77.1 115.7#
 89 0.1 38.5 57.7#

