

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091518\
 Data File : VX004593.D
 Acq On : 15 Sep 2018 19:07
 Operator : JC/MD
 Sample : J4922-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LIP-22

Quant Time: Sep 17 08:39:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	235807	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	332555	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	318698	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	176032	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	143038	47.04	ug/l	0.00
Spiked Amount			Recovery	=	94.08%	
35) Dibromofluoromethane	5.50	113	141340	46.44	ug/l	0.00
Spiked Amount			Recovery	=	92.88%	
50) Toluene-d8	8.72	98	474988	46.54	ug/l	0.00
Spiked Amount			Recovery	=	93.08%	
62) 4-Bromofluorobenzene	11.14	95	167890	46.09	ug/l	0.00
Spiked Amount			Recovery	=	92.18%	

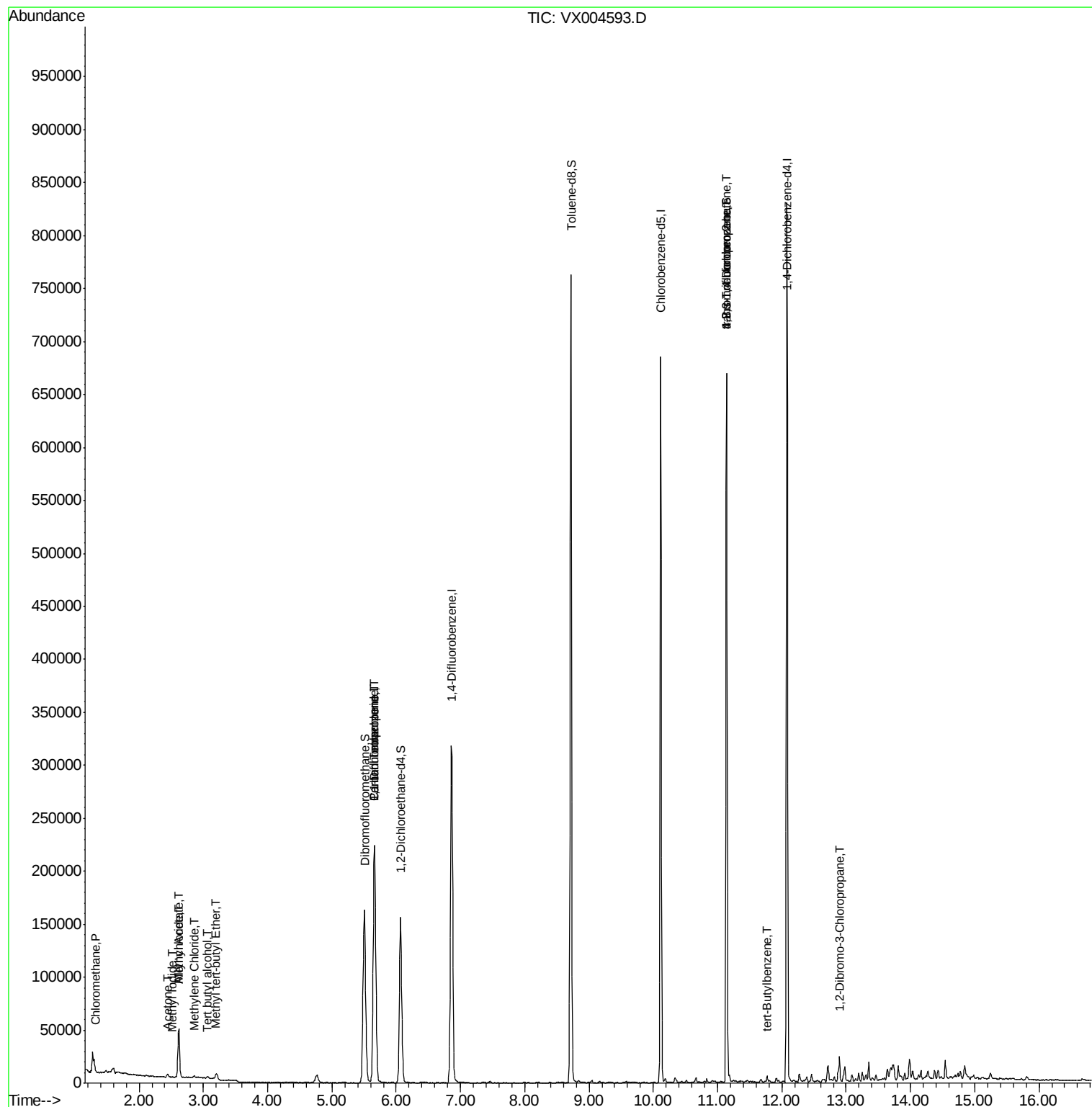
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	729	0.24	ug/l	# 59
5) Bromomethane	1.65	94	602	Below	Cal	91
10) Methyl Iodide	2.52	142	455	4.39	ug/l	# 79
11) Tert butyl alcohol	3.06	59	2840	3.91	ug/l	96
14) Allyl chloride	2.62	41	4910	0.97	ug/l	# 60
16) Acetone	2.45	43	3897	2.63	ug/l	97
18) Methyl Acetate	2.62	43	12301	2.95	ug/l	# 51
19) Methyl tert-butyl Ether	3.20	73	6598	0.76	ug/l	92
20) Methylene Chloride	2.85	84	924	0.30	ug/l	# 81
36) 1,1-Dichloropropene	5.66	75	15121	3.75	ug/l	# 50
38) Carbon Tetrachloride	5.66	117	20513	5.20	ug/l	# 15
76) 1,2,3-Trichloropropane	11.14	75	78994	22.30	ug/l	# 37
81) trans-1,4-Dichloro-2-buten	11.14	75	78994	71.10	ug/l	# 10
83) tert-Butylbenzene	11.77	119	2261	0.24	ug/l	89
92) 1,2-Dibromo-3-Chloropropan	12.90	75	183	0.23	ug/l	# 1

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

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX004593.D

Acq: 15 Sep 2018 19:07

Instrument :

MSVOA_X

ClientSampled :

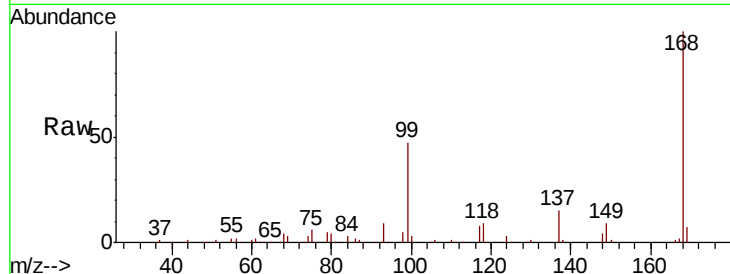
LIP-22

Tot Ion:168 Resp: 235807

Ion Ratio Lower Upper

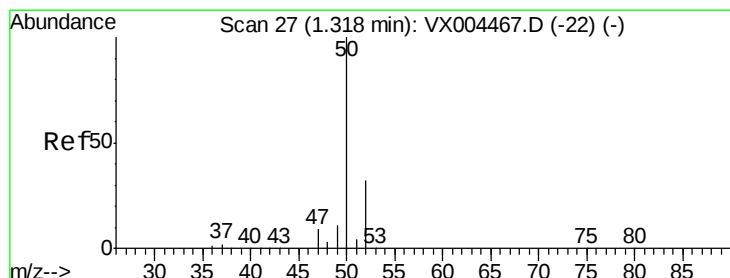
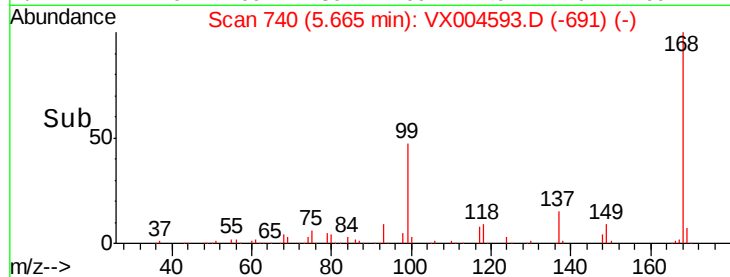
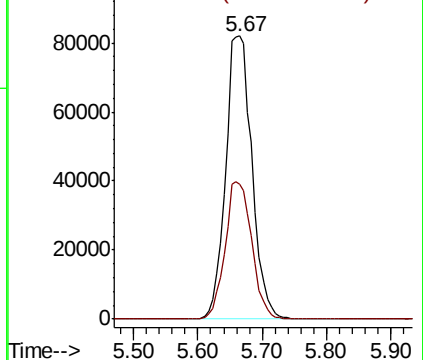
168 100

99 47.5 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.24 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX004593.D

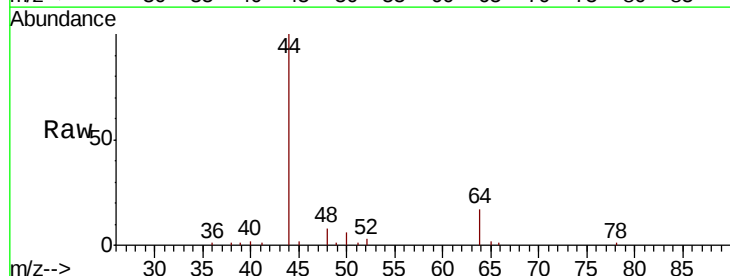
Acq: 15 Sep 2018 19:07

Tgt Ion: 50 Resp: 729

Ion Ratio Lower Upper

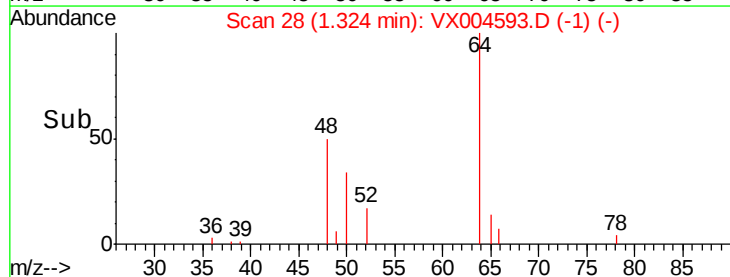
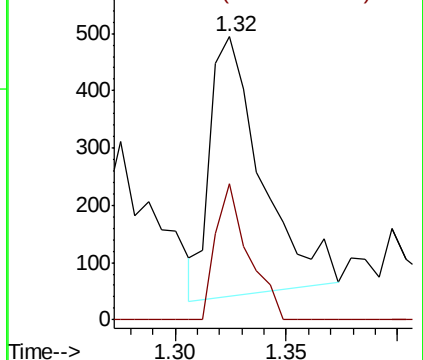
50 100

52 55.6 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004593.D

Acq: 15 Sep 2018 19:07

Instrument :

MSVOA_X

ClientSampleId :

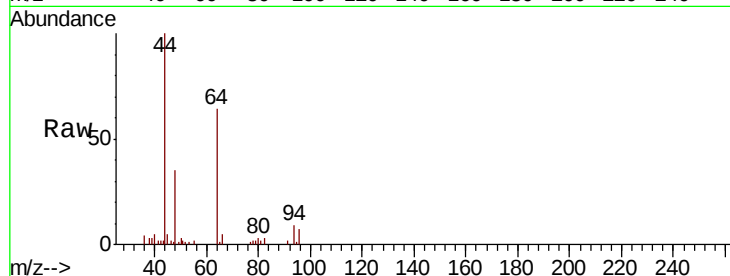
LIP-22

Tot Ion: 94 Resp: 602

Ion Ratio Lower Upper

94 100

96 84.5 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

300

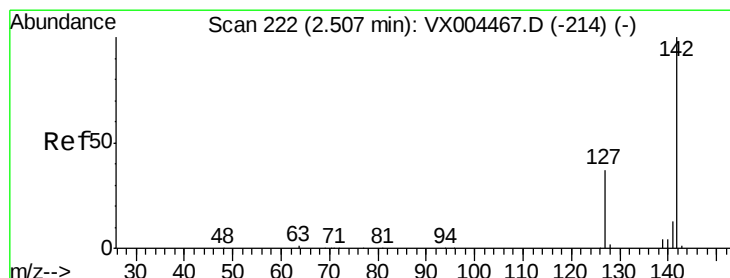
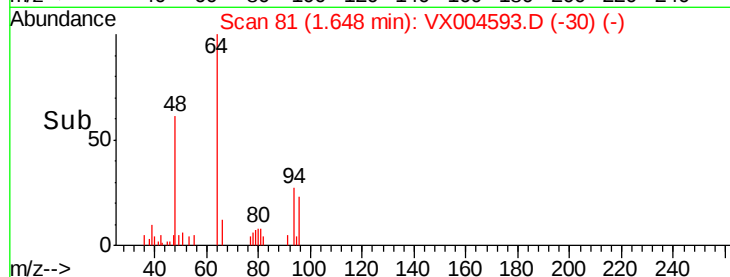
200

100

0

1.60 1.65 1.70

Time-->



#10

Methyl Iodide

Concen: 4.39 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX004593.D

Acq: 15 Sep 2018 19:07

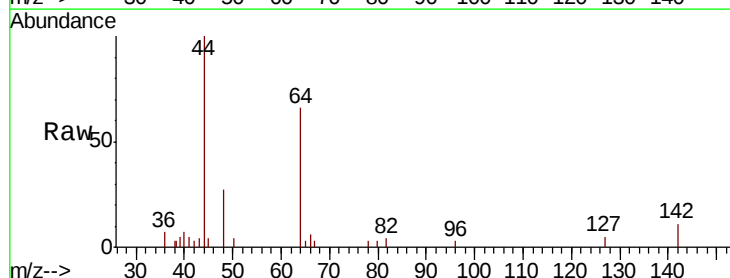
Tgt Ion: 142 Resp: 455

Ion Ratio Lower Upper

142 100

127 31.9 33.8 50.6#

141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

2.52

300

250

200

150

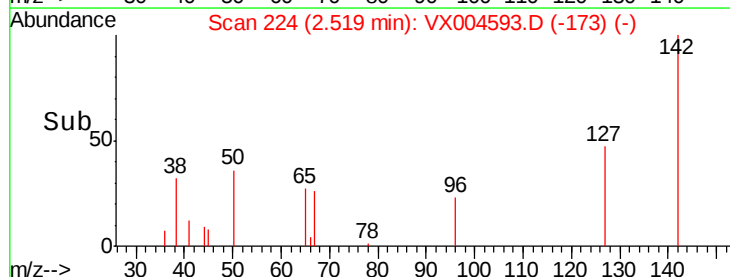
100

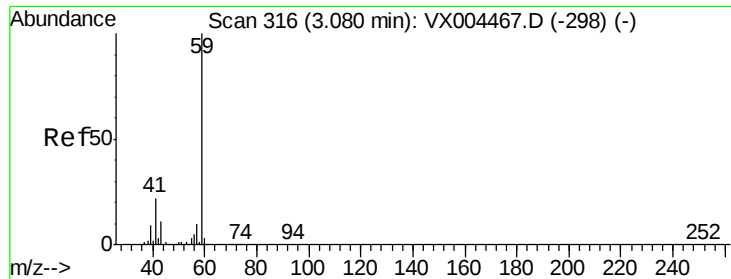
50

0

2.50 2.55

Time-->

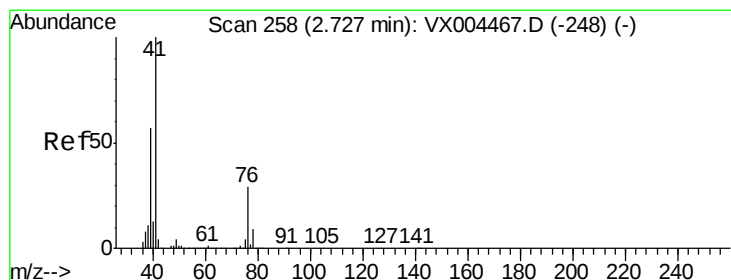
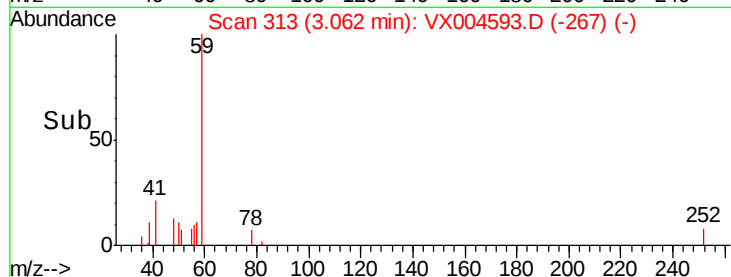
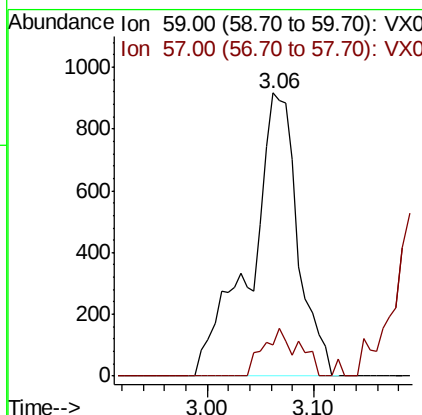
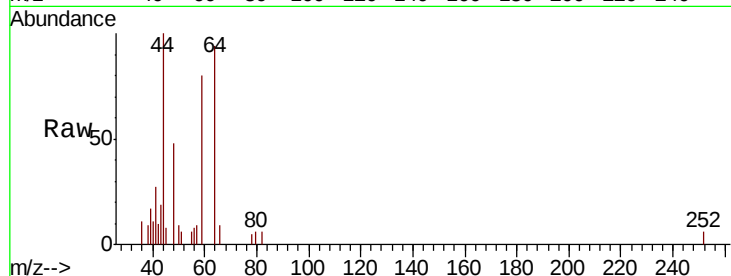




#11
Tert butyl alcohol
Concen: 3.91 ug/l
RT: 3.06 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX004593.D
Acq: 15 Sep 2018 19:07

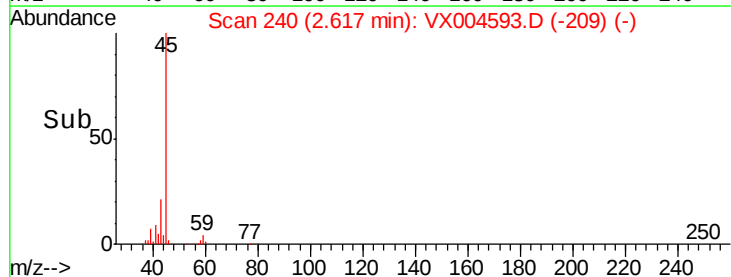
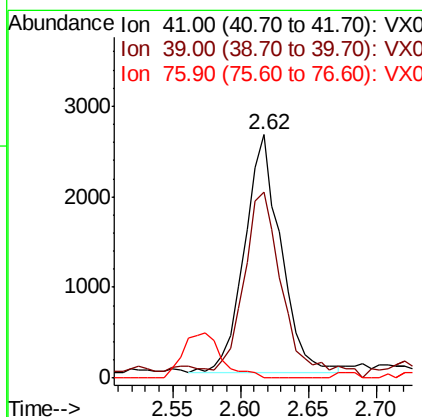
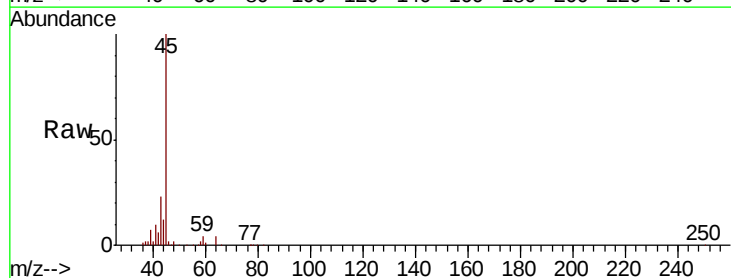
Instrument :
MSVOA_X
ClientSampled :
LIP-22

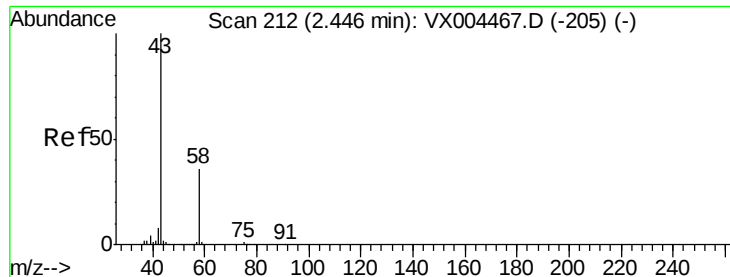
Tot Ion: 59 Resp: 2840
Ion Ratio Lower Upper
59 100
57 9.0 8.2 12.4



#14
Allyl chloride
Concen: 0.97 ug/l
RT: 2.62 min Scan# 240
Delta R.T. -0.11 min
Lab File: VX004593.D
Acq: 15 Sep 2018 19:07

Tgt Ion: 41 Resp: 4910
Ion Ratio Lower Upper
41 100
39 83.9 48.9 73.3#
76 0.0 26.7 40.1#





#16

Acetone

Concen: 2.63 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX004593.D

Acq: 15 Sep 2018 19:07

Instrument :

MSVOA_X

ClientSampled :

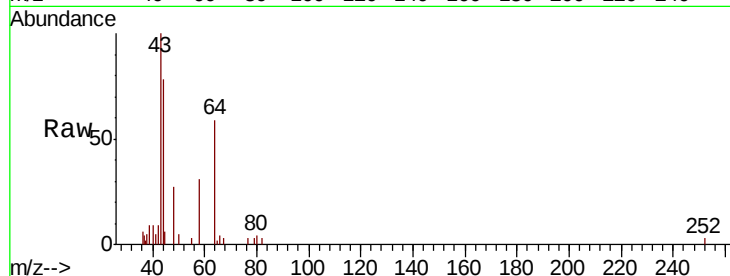
LIP-22

Tot Ion: 43 Resp: 3897

Ion Ratio Lower Upper

43 100

58 31.1 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2500

2000

1500

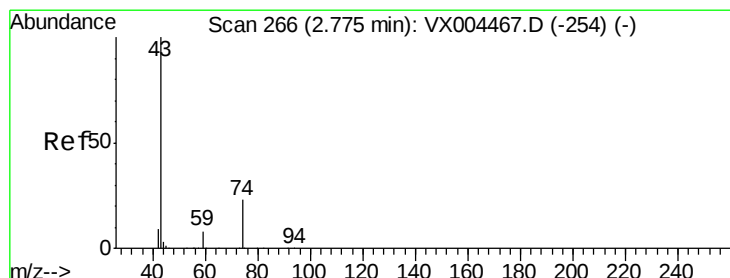
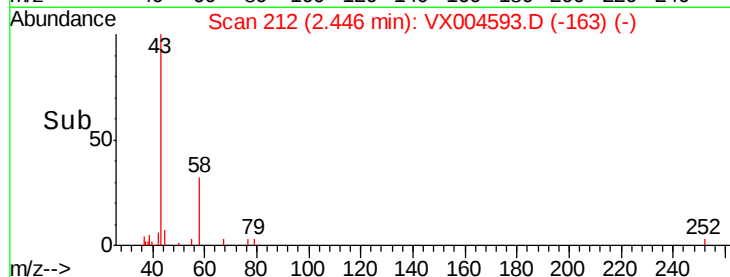
1000

500

0

2.35 2.40 2.45 2.50 2.55

Time-->



#18

Methyl Acetate

Concen: 2.95 ug/l

RT: 2.62 min Scan# 240

Delta R.T. -0.16 min

Lab File: VX004593.D

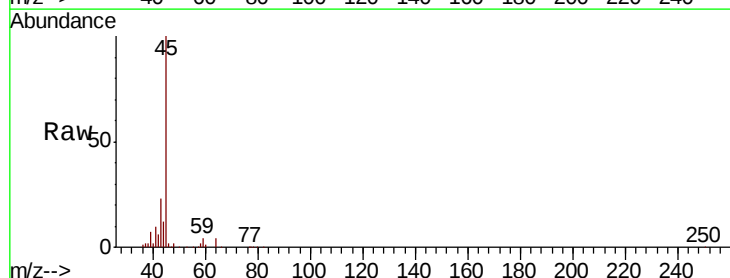
Acq: 15 Sep 2018 19:07

Tgt Ion: 43 Resp: 12301

Ion Ratio Lower Upper

43 100

74 0.0 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

6000

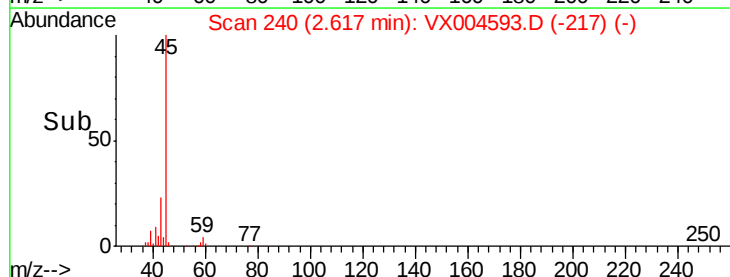
4000

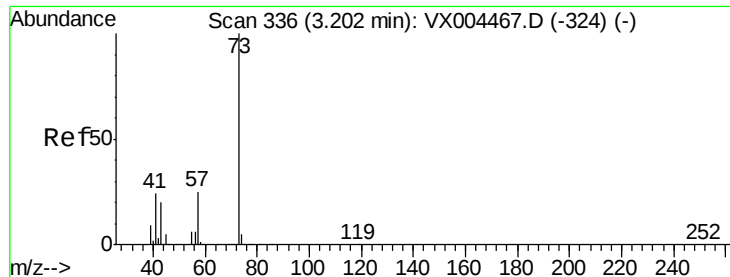
2000

0

2.55 2.60 2.65 2.70

Time-->





#19

Methyl tert-butyl Ether

Concen: 0.76 ug/l

RT: 3.20 min Scan# 336

Delta R.T. -0.00 min

Lab File: VX004593.D

Acq: 15 Sep 2018 19:07

Instrument :

MSVOA_X

ClientSampled :

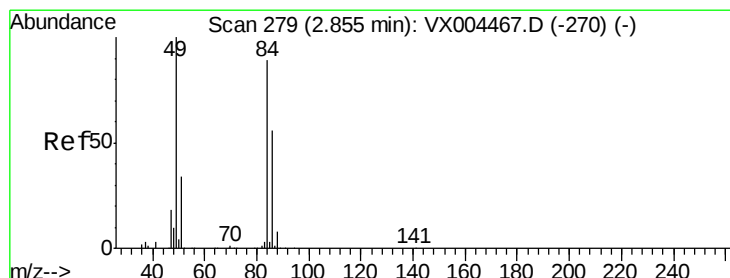
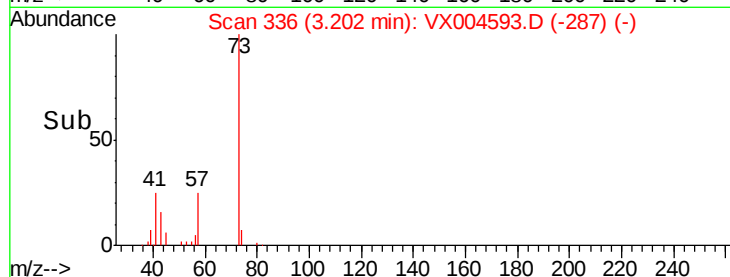
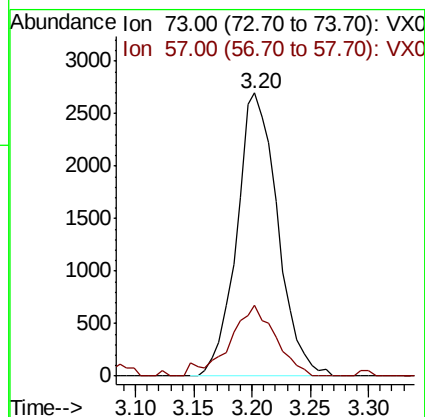
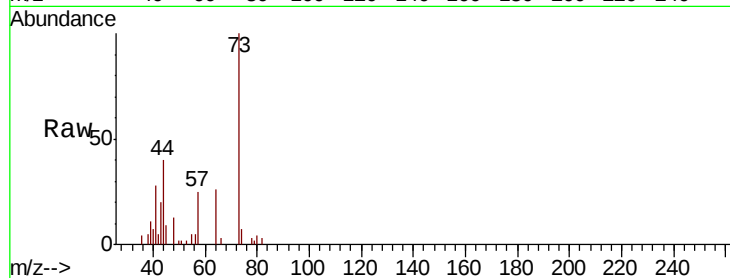
LIP-22

Tot Ion: 73 Resp: 6598

Ion Ratio Lower Upper

73 100

57 25.3 17.1 25.7



#20

Methylene Chloride

Concen: 0.30 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX004593.D

Acq: 15 Sep 2018 19:07

Tgt Ion: 84 Resp: 924

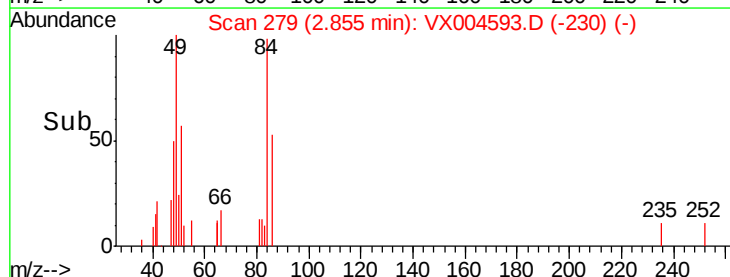
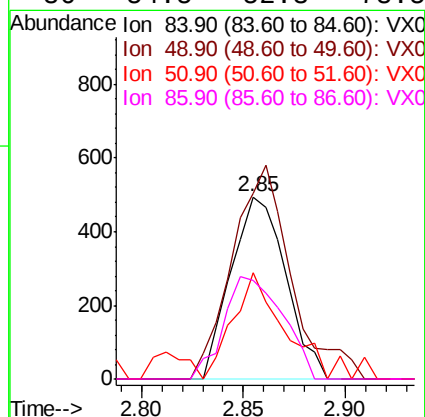
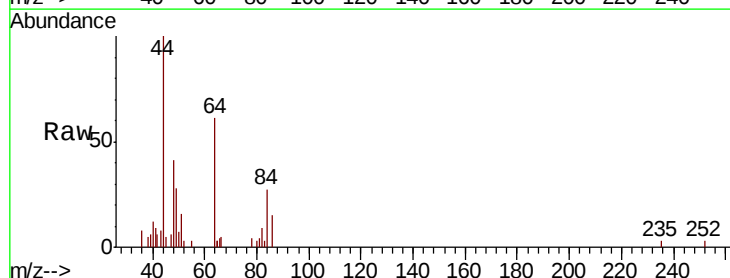
Ion Ratio Lower Upper

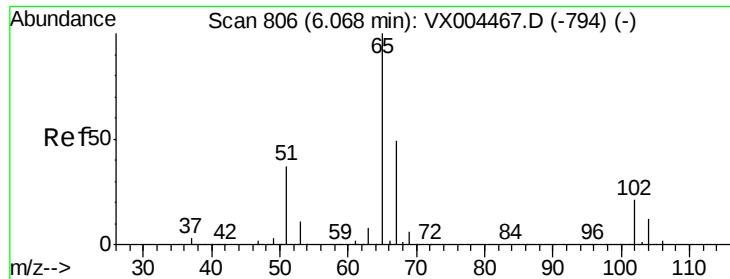
84 100

49 102.0 101.2 151.8

51 47.6 29.5 44.3#

86 54.5 52.3 78.5

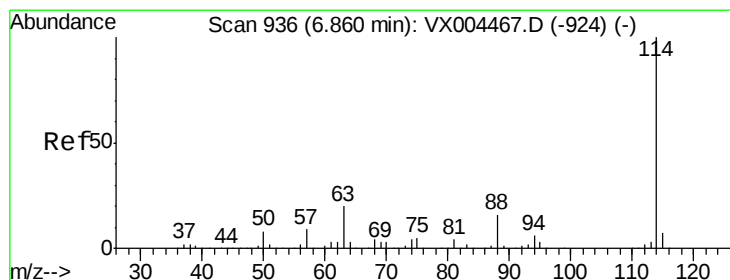
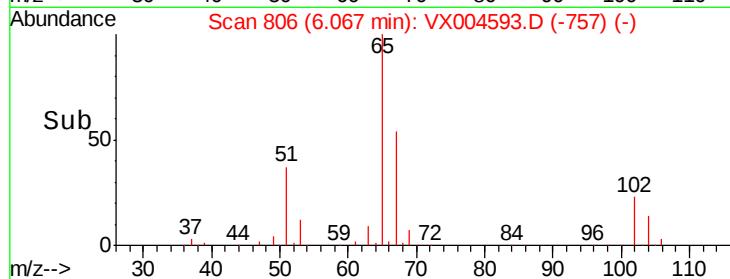
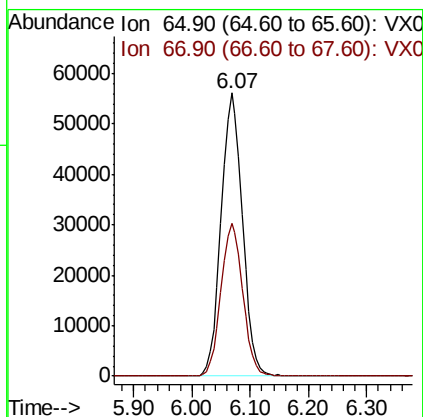
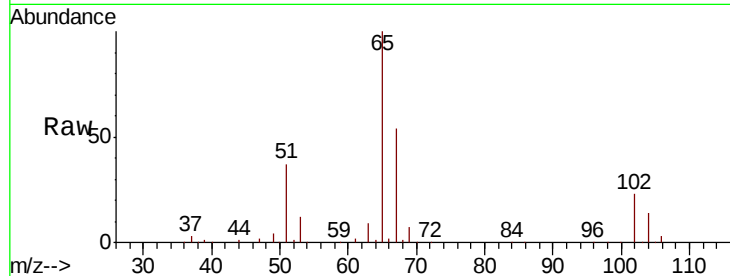




#33
 1,2-Dichloroethane-d4
 Concen: 47.04 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004593.D
 Acq: 15 Sep 2018 19:07

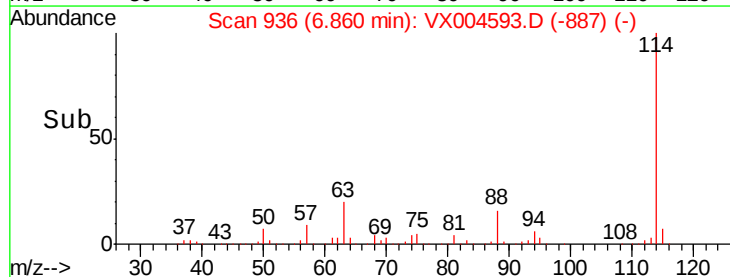
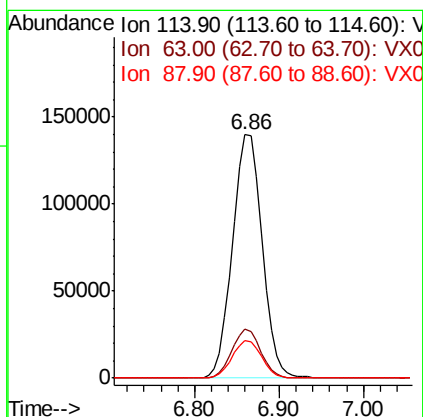
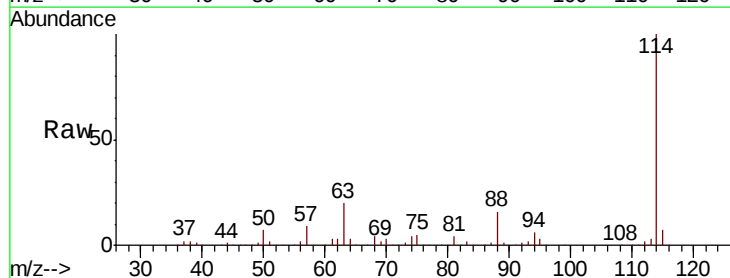
Instrument :
 MSVOA_X
 ClientSampleId :
 LIP-22

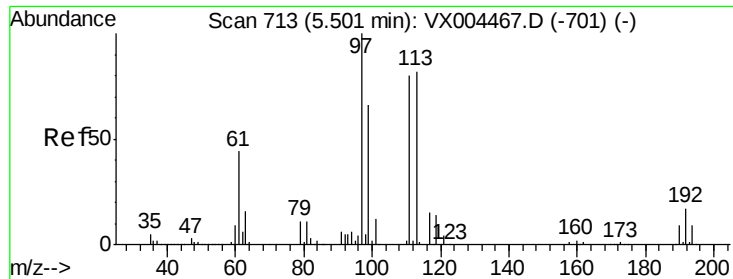
Tot Ion: 65 Resp: 143038
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004593.D
 Acq: 15 Sep 2018 19:07

Tgt Ion: 114 Resp: 332555
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 39.0
 88 15.6 0.0 30.4

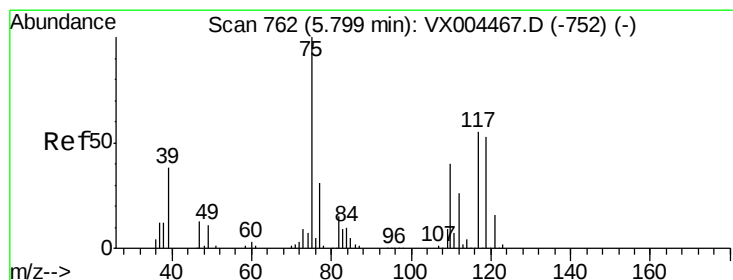
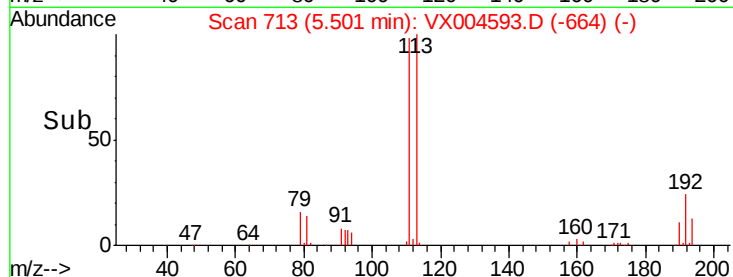
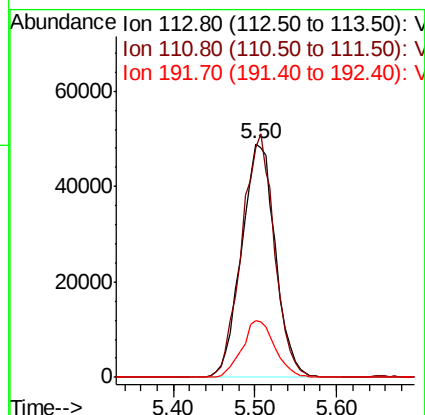
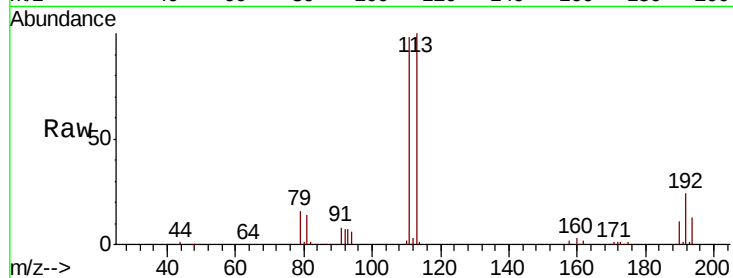




#35
 Dibromofluoromethane
 Concen: 46.44 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX004593.D
 Acq: 15 Sep 2018 19:07

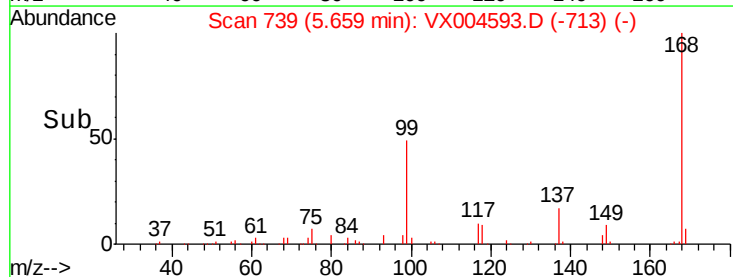
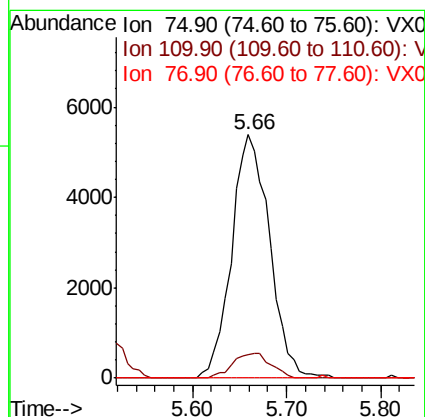
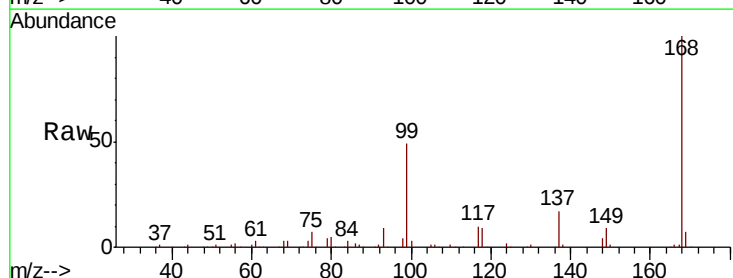
Instrument :
 MSVOA_X
 ClientSampleId :
 LIP-22

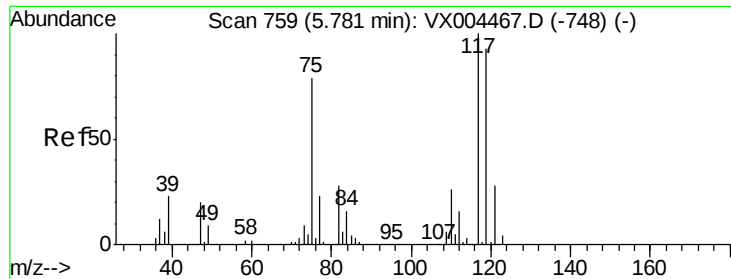
Tot Ion:113 Resp: 141340
 Ion Ratio Lower Upper
 113 100
 111 100.8 82.4 123.6
 192 23.6 19.4 29.2



#36
 1,1-Dichloropropene
 Concen: 3.75 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX004593.D
 Acq: 15 Sep 2018 19:07

Tgt Ion: 75 Resp: 15121
 Ion Ratio Lower Upper
 75 100
 110 10.2 18.0 54.0#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 5.20 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX004593.D

Acq: 15 Sep 2018 19:07

Instrument :

MSVOA_X

ClientSampled :

LIP-22

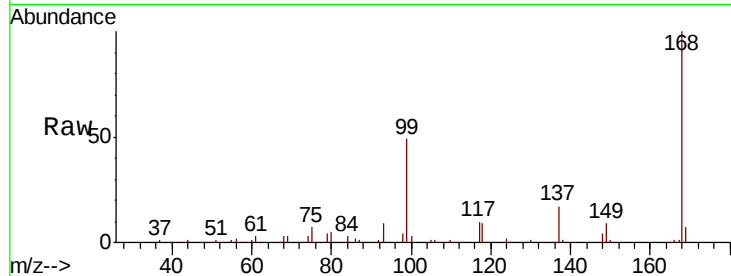
Tot Ion:117 Resp: 20513

Ion Ratio Lower Upper

117 100

119 4.7 78.8 118.2#

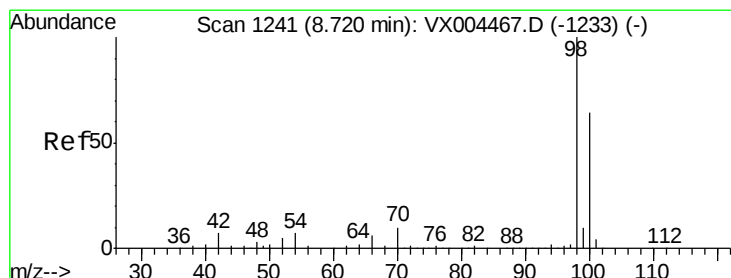
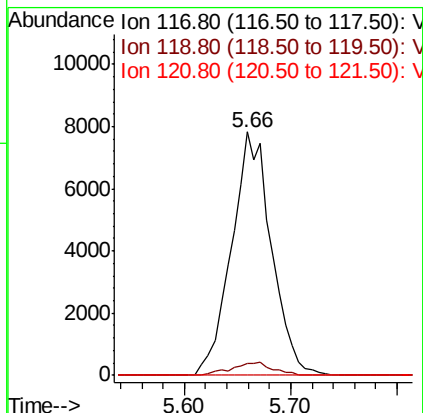
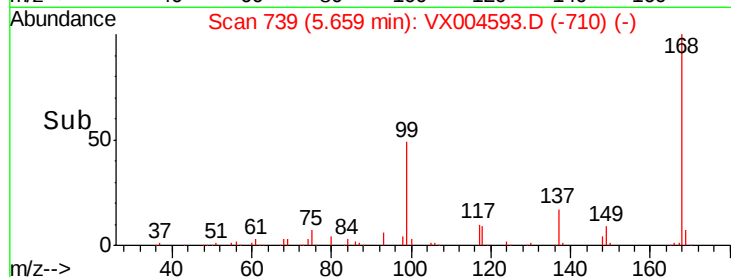
121 0.0 24.9 37.3#



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



#50

Toluene-d8

Concen: 46.54 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. -0.00 min

Lab File: VX004593.D

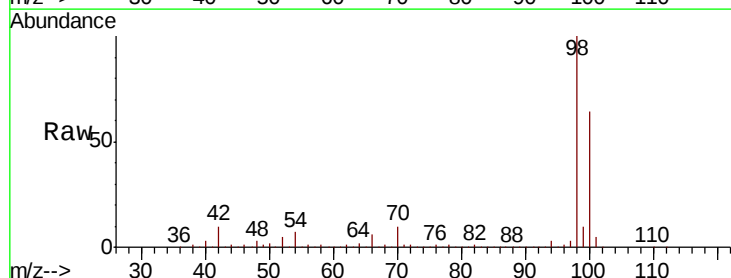
Acq: 15 Sep 2018 19:07

Tgt Ion: 98 Resp: 474988

Ion Ratio Lower Upper

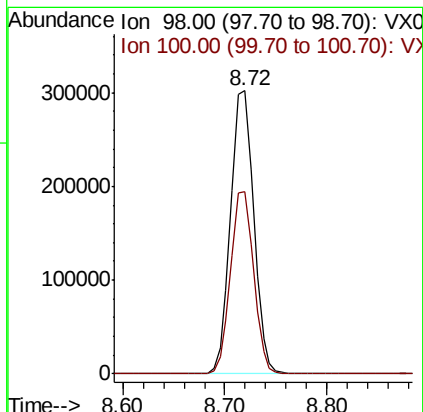
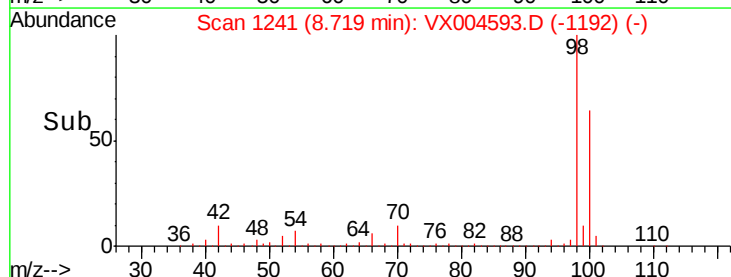
98 100

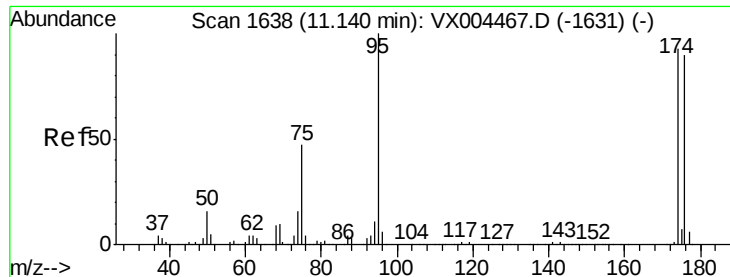
100 64.1 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 46.09 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX004593.D

Acq: 15 Sep 2018 19:07

Instrument :

MSVOA_X

ClientSampleId :

LIP-22

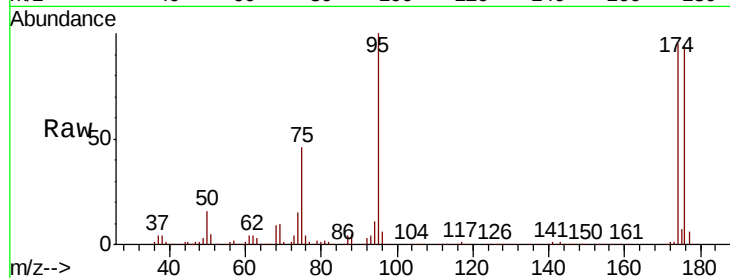
Tot Ion: 95 Resp: 167890

Ion Ratio Lower Upper

95 100

174 92.5 0.0 185.2

176 90.4 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX004467.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX004467.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX004467.D (-1631) (-)

11.14

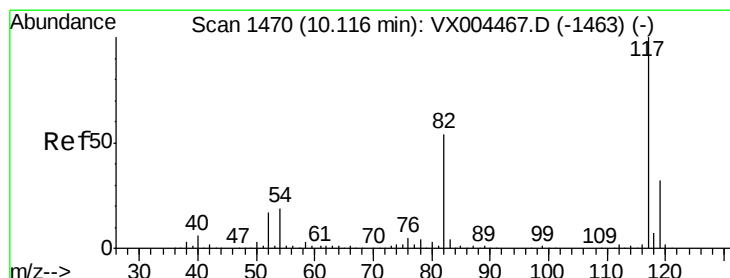
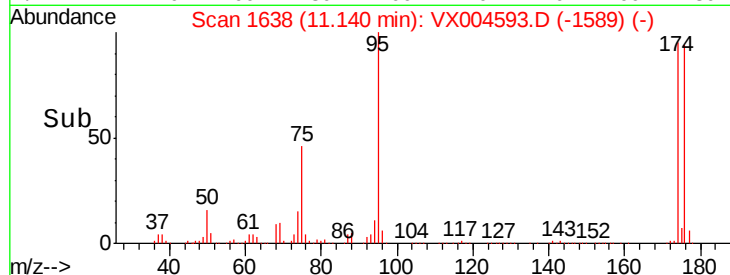
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX004593.D

Acq: 15 Sep 2018 19:07

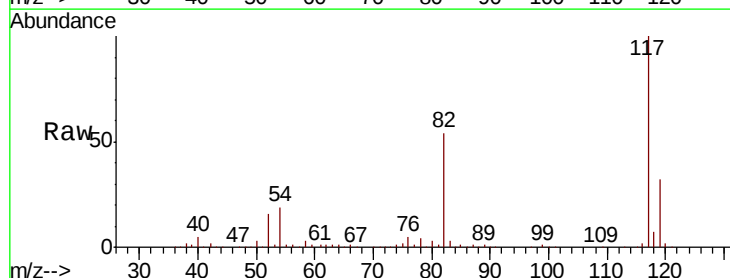
Tgt Ion: 117 Resp: 318698

Ion Ratio Lower Upper

117 100

82 53.6 47.8 71.6

119 31.7 29.3 43.9



Abundance Ion 116.90 (116.60 to 117.60): VX004467.D (-1463) (-)

Ion 82.00 (81.70 to 82.70): VX004467.D (-1463) (-)

Ion 118.90 (118.60 to 119.60): VX004467.D (-1463) (-)

10.12

300000

250000

200000

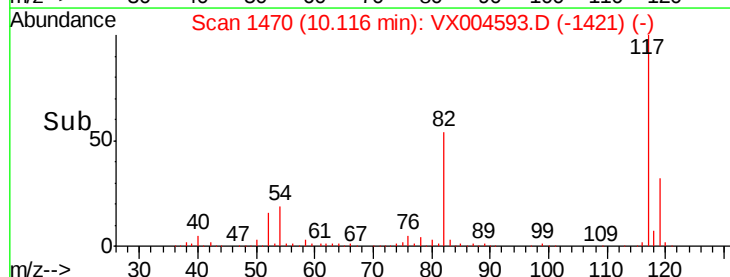
150000

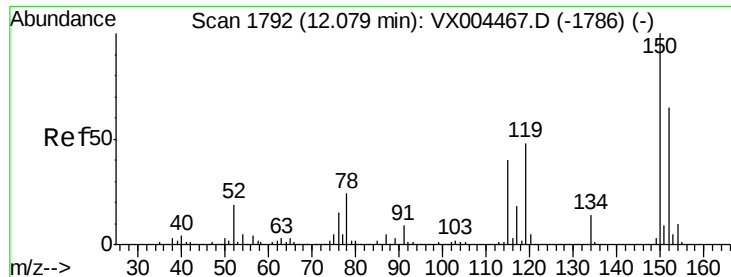
100000

50000

0

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX004593.D

Acq: 15 Sep 2018 19:07

Instrument :

MSVOA_X

ClientSampleId :

LIP-22

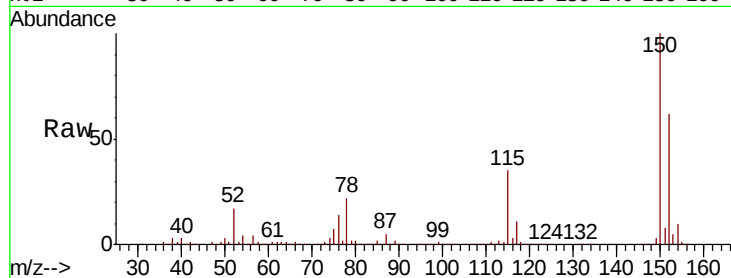
Tot Ion:152 Resp: 176032

Ion Ratio Lower Upper

152 100

115 54.5 39.0 117.0

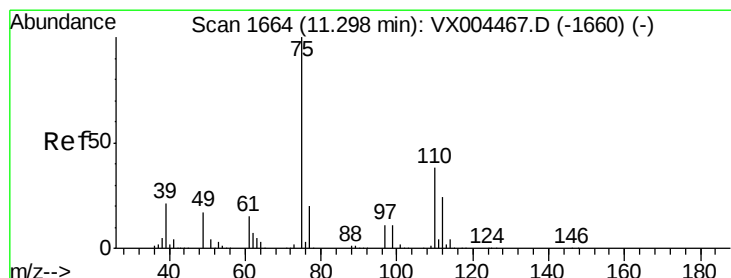
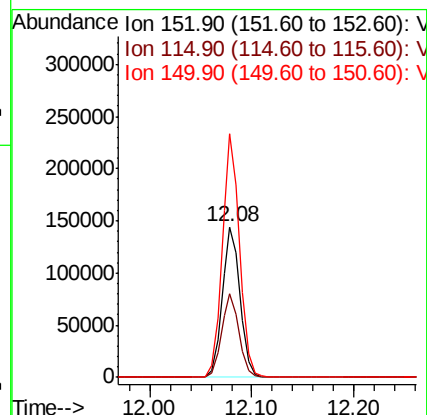
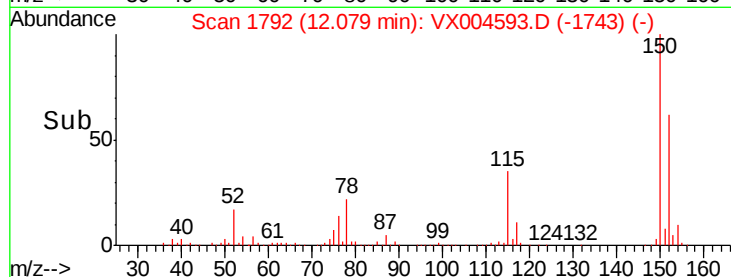
150 157.7 0.0 351.0



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: 22.30 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004593.D

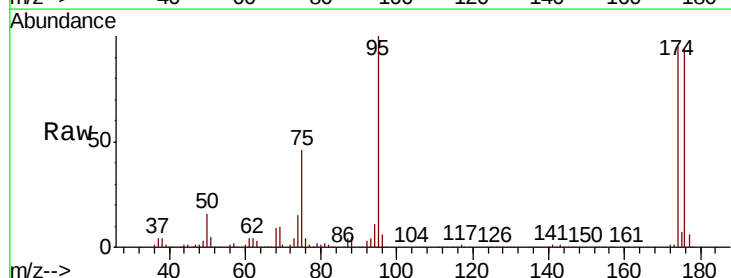
Acq: 15 Sep 2018 19:07

Tgt Ion: 75 Resp: 78994

Ion Ratio Lower Upper

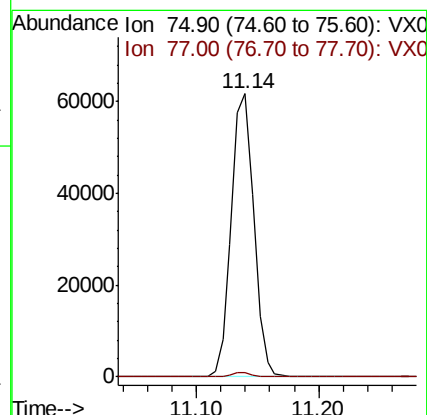
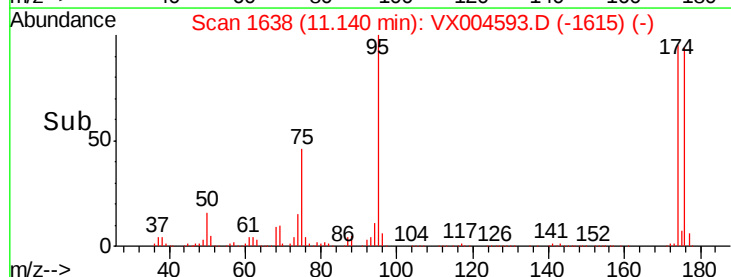
75 100

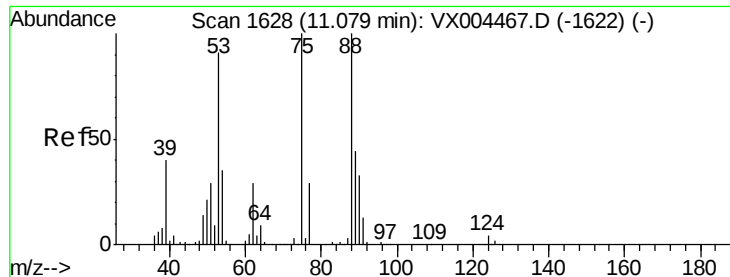
77 1.6 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

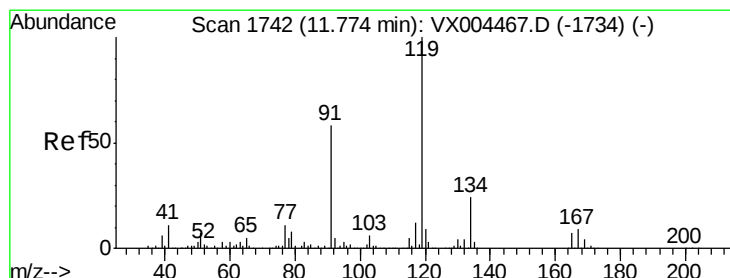
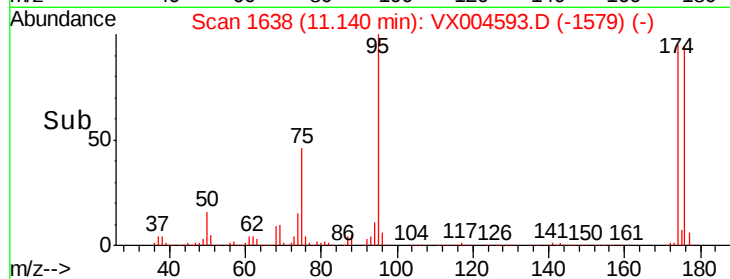
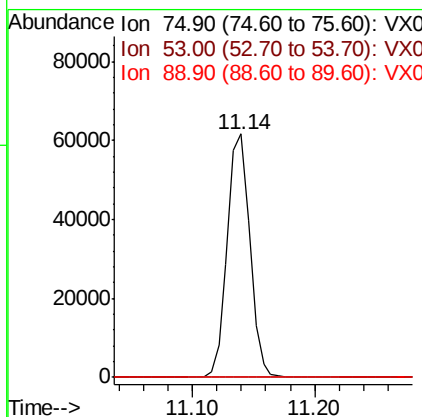
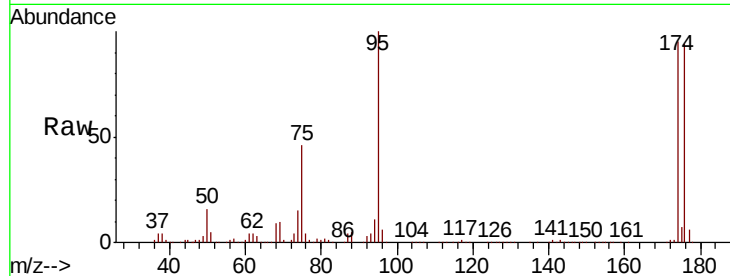




#81
trans-1,4-Dichloro-2-butene
Concen: 71.10 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.06 min
Lab File: VX004593.D
Acq: 15 Sep 2018 19:07

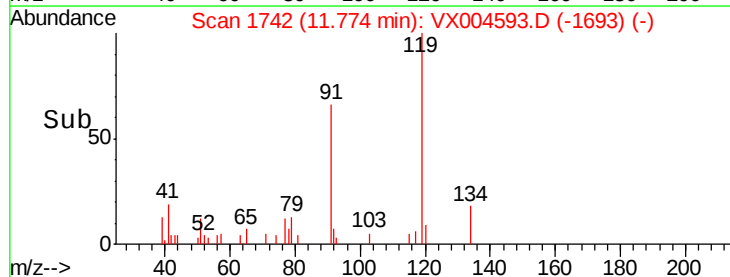
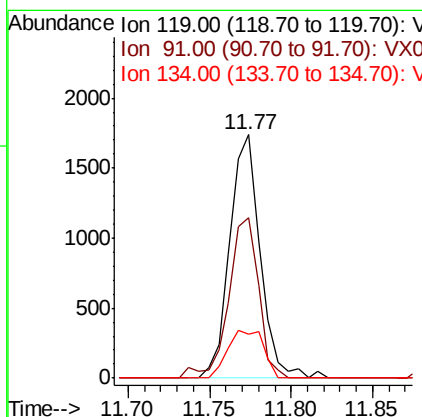
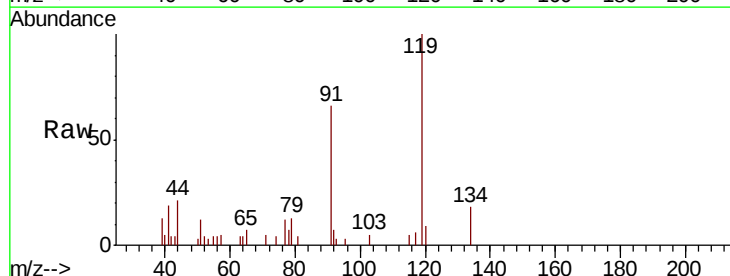
Instrument :
MSVOA_X
ClientSampleId :
LIP-22

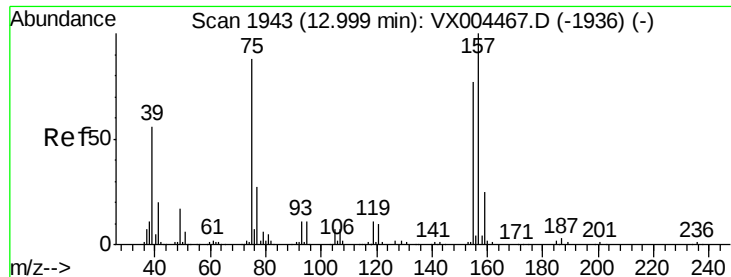
Tot Ion: 75 Resp: 78994
Ion Ratio Lower Upper
75 100
53 0.1 80.1 120.1#
89 0.0 37.2 55.8#



#83
tert-Butylbenzene
Concen: 0.24 ug/l
RT: 11.77 min Scan# 1742
Delta R.T. -0.00 min
Lab File: VX004593.D
Acq: 15 Sep 2018 19:07

Tgt Ion: 119 Resp: 2261
Ion Ratio Lower Upper
119 100
91 64.9 27.0 81.0
134 23.2 11.7 35.1





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.23 ug/l

RT: 12.90 min Scan# 1926

Delta R.T. -0.10 min

Lab File: VX004593.D

Acq: 15 Sep 2018 19:07

Instrument :

MSVOA_X

ClientSampleId :

LIP-22

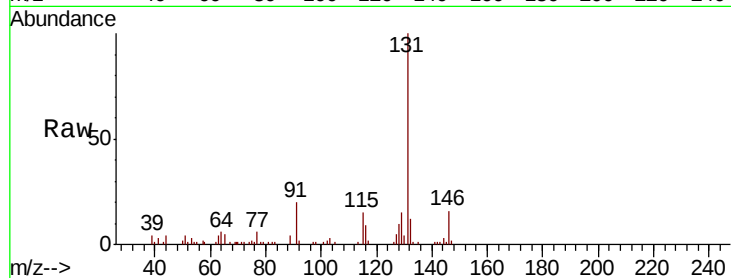
Tot Ion: 75 Resp: 183

Ion Ratio Lower Upper

75 100

155 0.0 48.0 144.2#

157 0.0 61.4 184.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

