

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121219\
 Data File : VX013975.D
 Acq On : 12 Dec 2019 15:13
 Operator : JC/SP
 Sample : K6252-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FB02-20191209

Quant Time: Dec 13 00:52:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	558471	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	857008	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	756762	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	317787	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	315479	48.67	ug/l	0.00
Spiked Amount			Recovery	=	97.34%	
35) Dibromofluoromethane	5.49	113	251479	47.47	ug/l	0.00
Spiked Amount			Recovery	=	94.94%	
50) Toluene-d8	8.71	98	1016743	49.26	ug/l	0.00
Spiked Amount			Recovery	=	98.52%	
62) 4-Bromofluorobenzene	11.14	95	331273	44.50	ug/l	0.00
Spiked Amount			Recovery	=	89.00%	

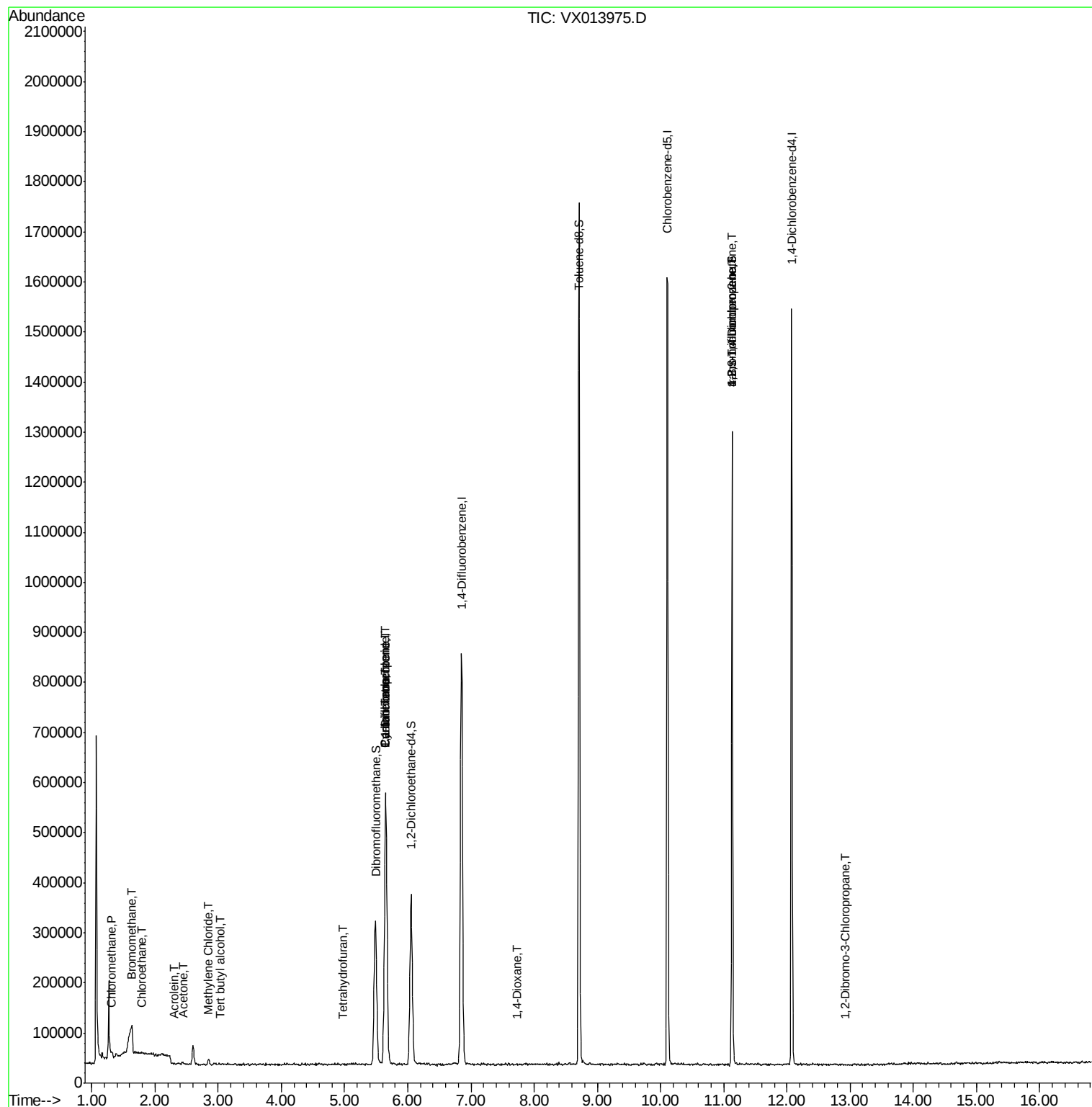
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	3935	0.564	ug/l	91
5) Bromomethane	1.63	94	2411	0.457	ug/l #	67
6) Chloroethane	1.79	64	3785	0.847	ug/l #	46
11) Tert butyl alcohol	3.03	59	1414	0.884	ug/l #	78
13) Acrolein	2.31	56	228	6.212	ug/l #	1
16) Acetone	2.44	43	6089	1.902	ug/l	89
20) Methylene Chloride	2.84	84	5815	0.946	ug/l #	89
29) Tetrahydrofuran	4.97	42	717	0.245	ug/l	91
31) Cyclohexane	5.64	56	10463	1.093	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	37271	4.791	ug/l #	51
38) Carbon Tetrachloride	5.65	117	50860	7.090	ug/l #	15
49) 1,4-Dioxane	7.73	88	196	1.254	ug/l #	73
76) 1,2,3-Trichloropropane	11.13	75	161399	22.581	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	161399	61.777	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.93	75	357	0.212	ug/l	62

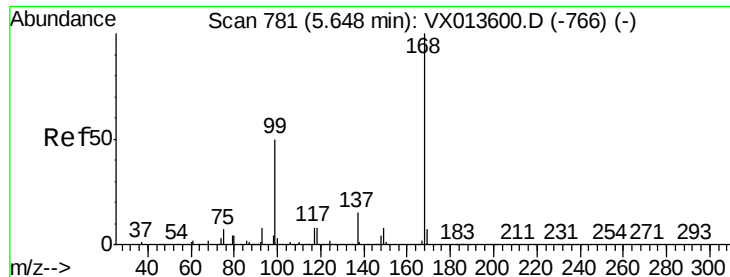
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX013975.D

Acq: 12 Dec 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

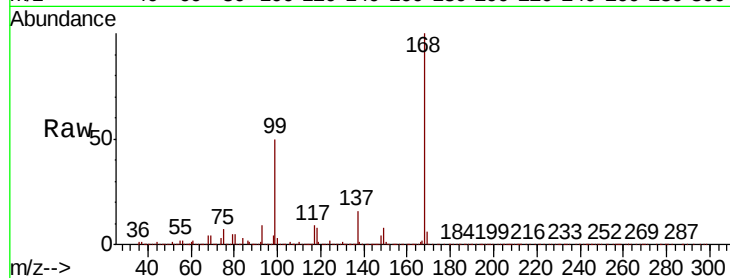
FB02-20191209

Tot Ion:168 Resp: 558471

Ion Ratio Lower Upper

168 100

99 49.5 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

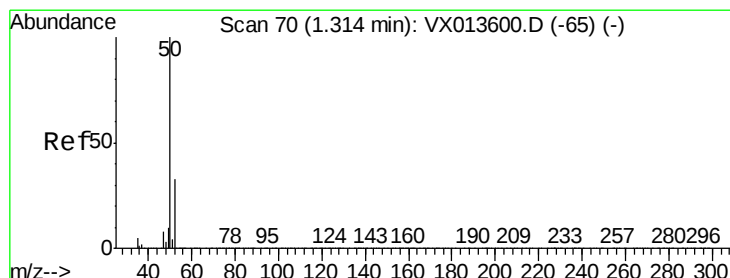
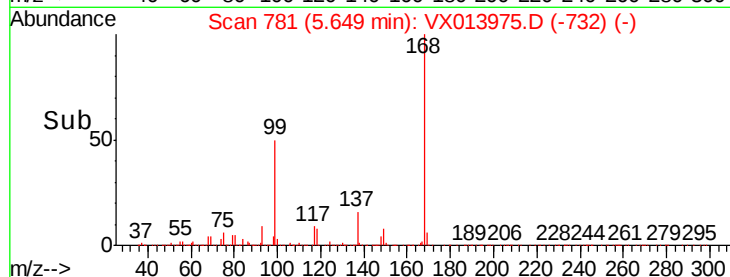
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.564 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.01 min

Lab File: VX013975.D

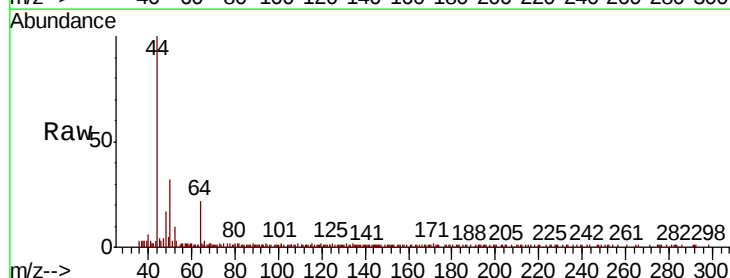
Acq: 12 Dec 2019 15:13

Tgt Ion: 50 Resp: 3935

Ion Ratio Lower Upper

50 100

52 27.6 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

4000

3000

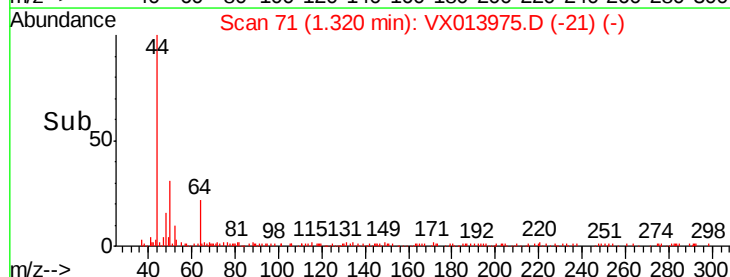
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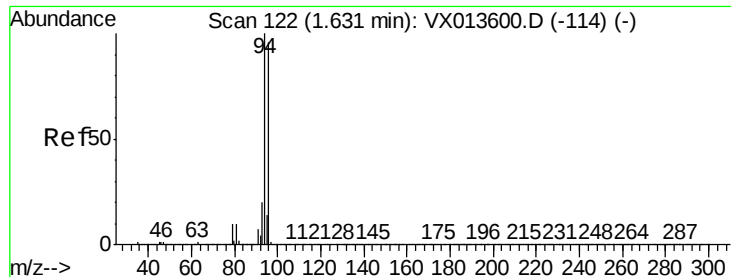
1000

0

Time-->

1.30 1.32 1.34





#5

Bromomethane

Concen: 0.457 ug/l

RT: 1.63 min Scan# 122

Delta R.T. 0.00 min

Lab File: VX013975.D

Acq: 12 Dec 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

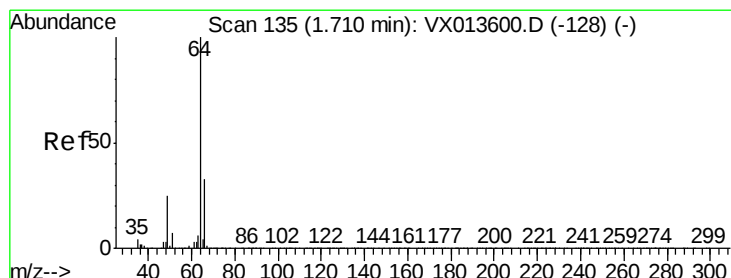
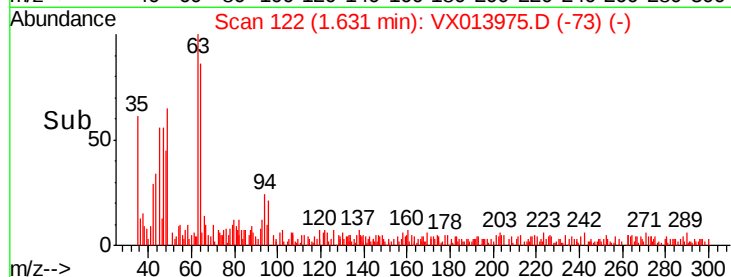
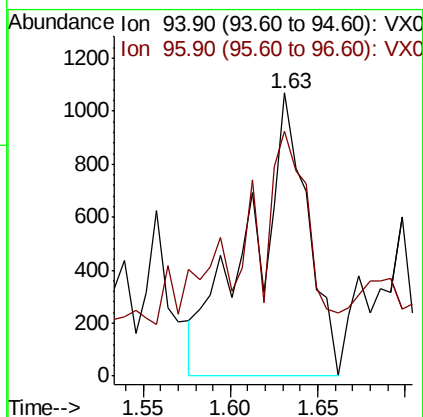
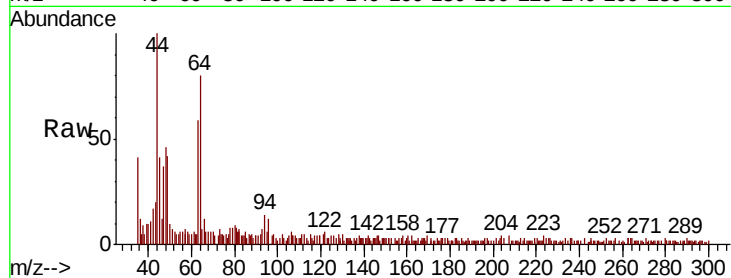
FB02-20191209

Tot Ion: 94 Resp: 2411

Ion Ratio Lower Upper

94 100

96 64.3 77.0 115.4#



#6

Chloroethane

Concen: 0.847 ug/l

RT: 1.79 min Scan# 148

Delta R.T. 0.08 min

Lab File: VX013975.D

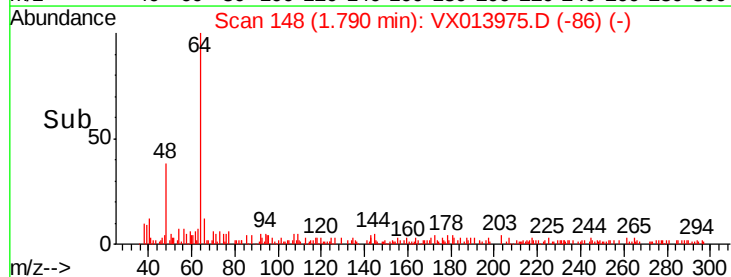
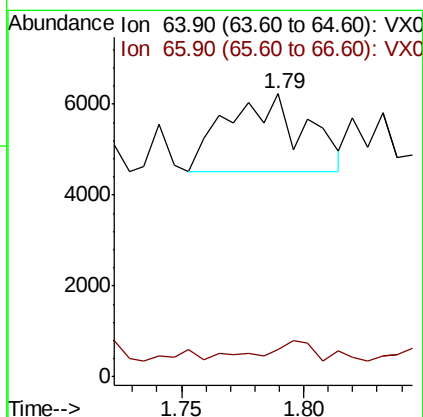
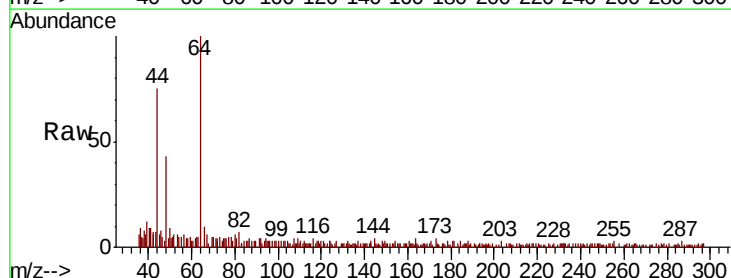
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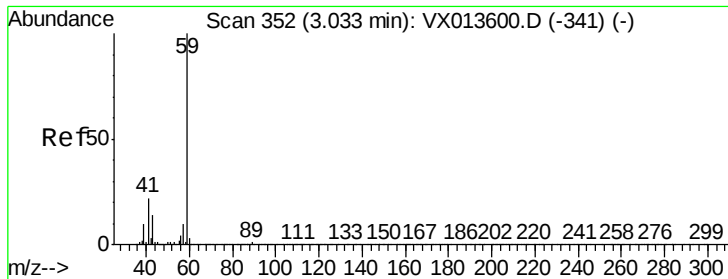
Tgt Ion: 64 Resp: 3785

Ion Ratio Lower Upper

64 100

66 2.6 26.7 40.1#



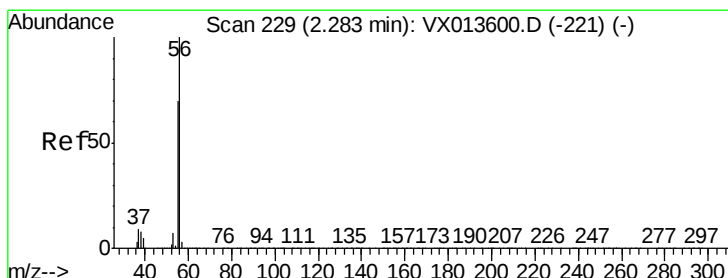
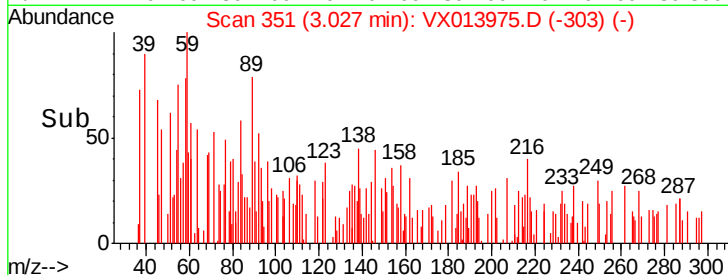
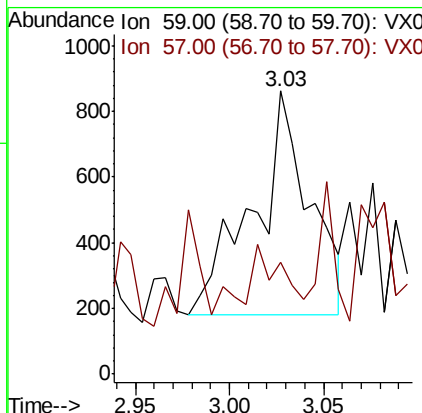
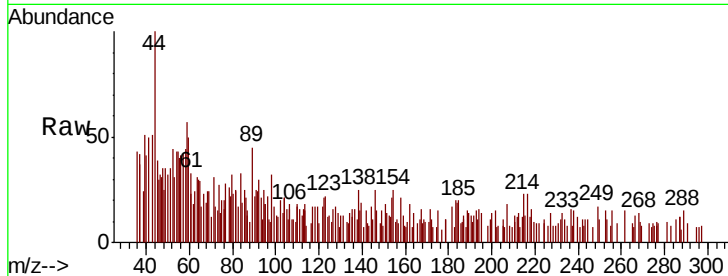


#11

Tert butyl alcohol
 Concen: 0.884 ug/l
 RT: 3.03 min Scan# 351
 Delta R.T. -0.01 min
 Lab File: VX013975.D
 Acq: 12 Dec 2019 15:13

Instrument :
 MSVOA_X
 ClientSampleId :
 FB02-20191209

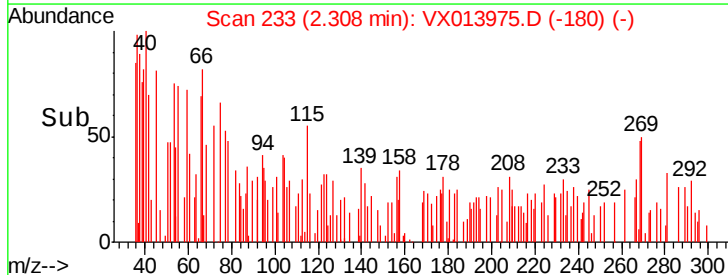
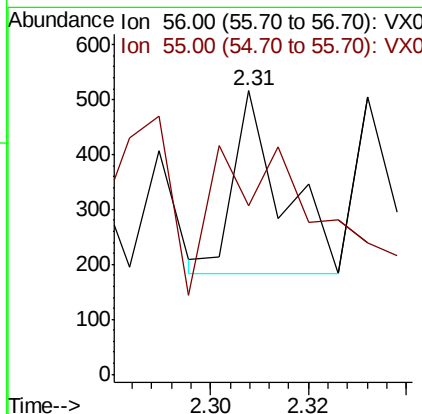
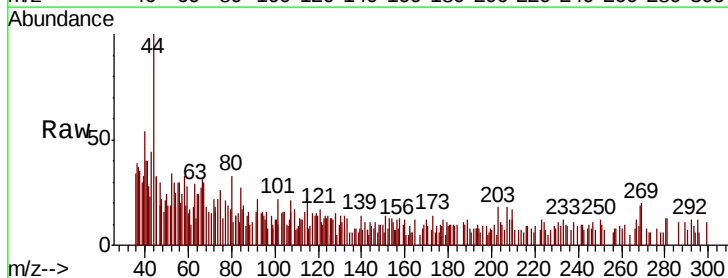
Tot Ion: 59 Resp: 1414
 Ion Ratio Lower Upper
 59 100
 57 17.8 7.8 11.6#

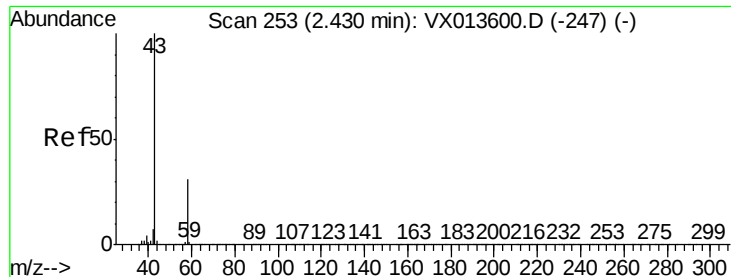


#13

Acrolein
 Concen: 6.212 ug/l
 RT: 2.31 min Scan# 233
 Delta R.T. 0.02 min
 Lab File: VX013975.D
 Acq: 12 Dec 2019 15:13

Tgt Ion: 56 Resp: 228
 Ion Ratio Lower Upper
 56 100
 55 172.4 56.2 84.4#





#16

Acetone

Concen: 1.902 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX013975.D

Acq: 12 Dec 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

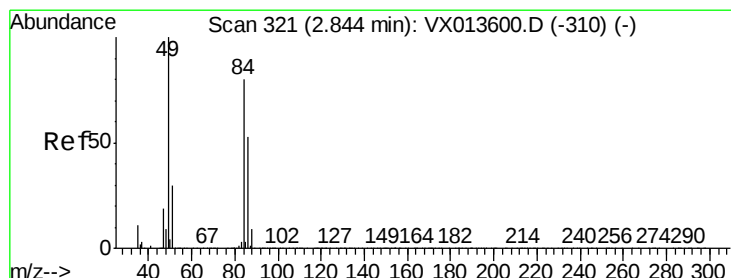
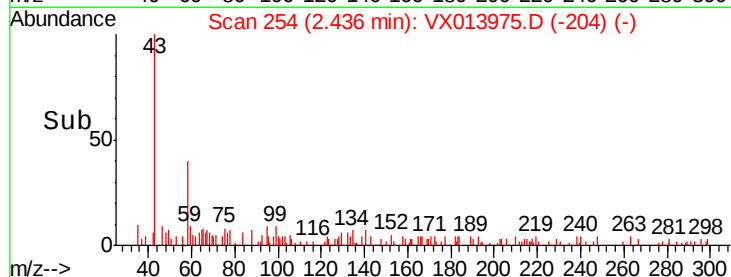
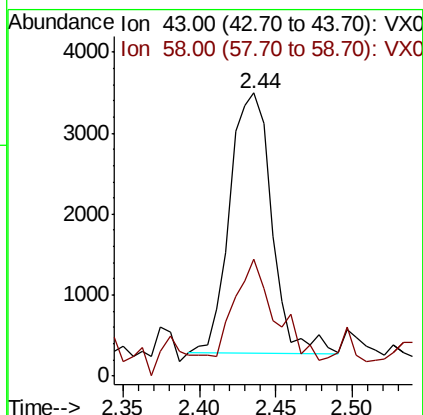
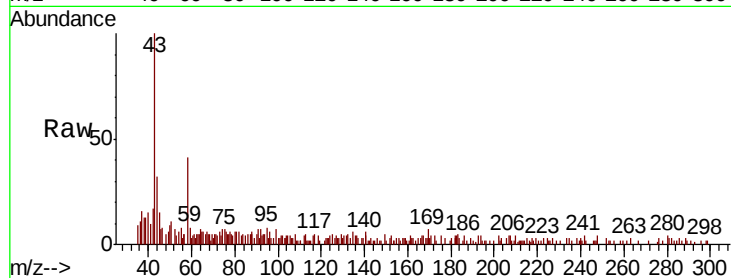
FB02-20191209

Tot Ion: 43 Resp: 6089

Ion Ratio Lower Upper

43 100

58 36.8 24.6 36.8



#20

Methylene Chloride

Concen: 0.946 ug/l

RT: 2.84 min Scan# 321

Delta R.T. 0.00 min

Lab File: VX013975.D

Acq: 12 Dec 2019 15:13

Tgt Ion: 84 Resp: 5815

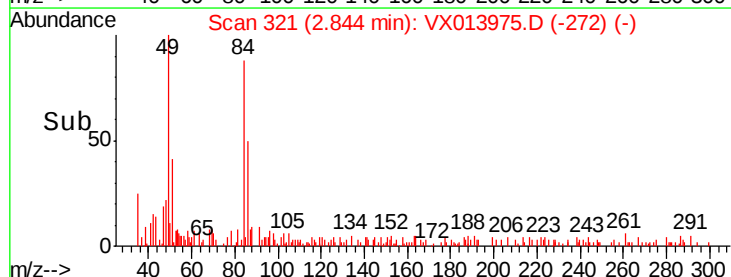
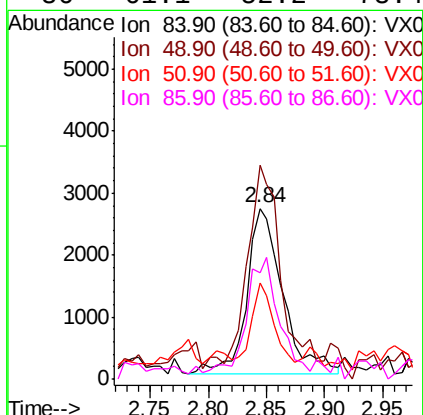
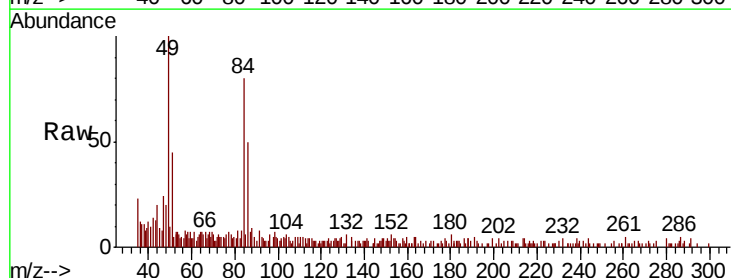
Ion Ratio Lower Upper

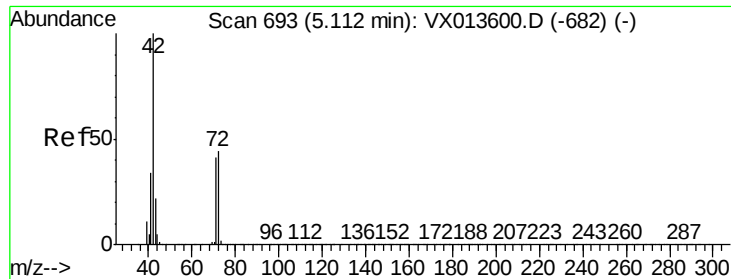
84 100

49 112.1 99.7 149.5

51 48.7 29.9 44.9#

86 61.1 52.2 78.4





#29

Tetrahydrofuran

Concen: 0.245 ug/l

RT: 4.97 min Scan# 669

Delta R.T. -0.15 min

Lab File: VX013975.D

Acq: 12 Dec 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

FB02-20191209

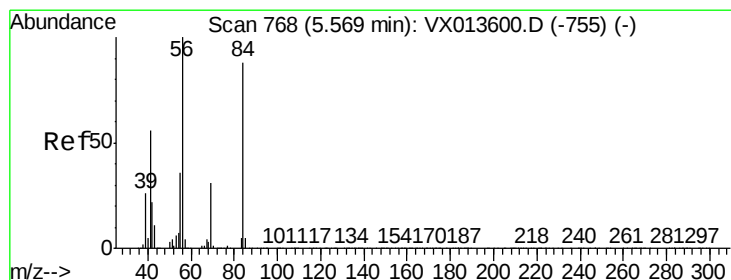
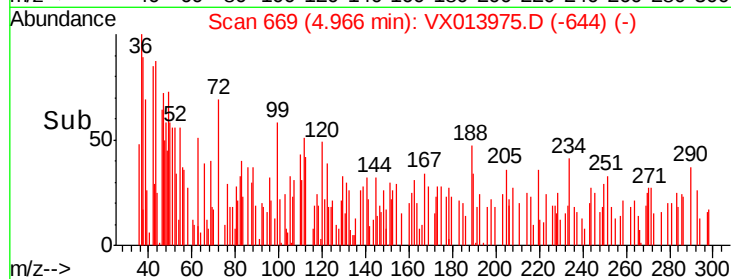
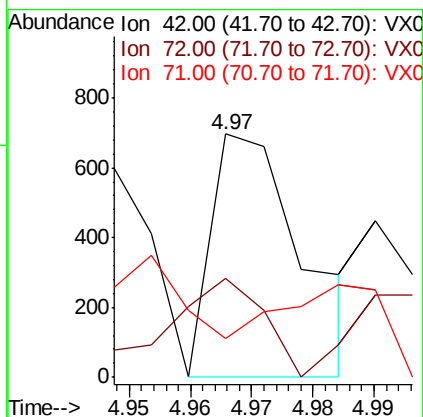
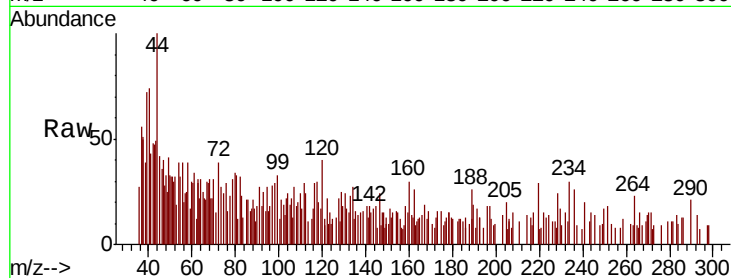
Tot Ion: 42 Resp: 717

Ion Ratio Lower Upper

42 100

72 39.2 36.3 54.5

71 46.3 33.2 49.8



#31

Cyclohexane

Concen: 1.093 ug/l

RT: 5.64 min Scan# 780

Delta R.T. 0.07 min

Lab File: VX013975.D

Acq: 12 Dec 2019 15:13

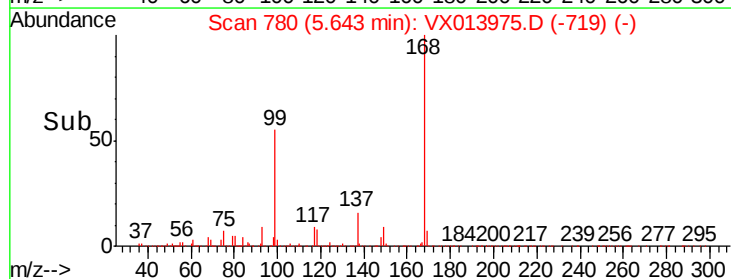
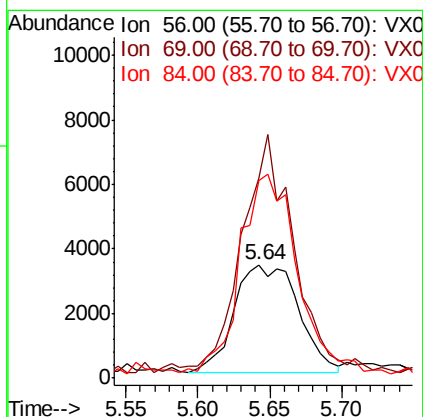
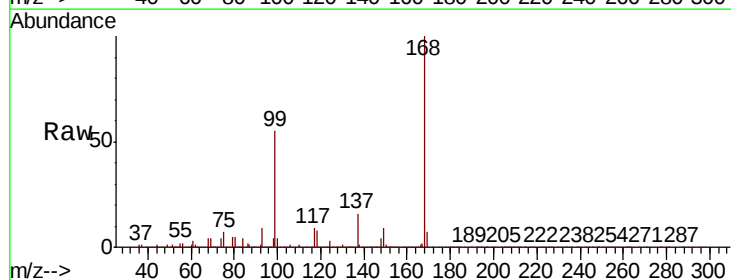
Tgt Ion: 56 Resp: 10463

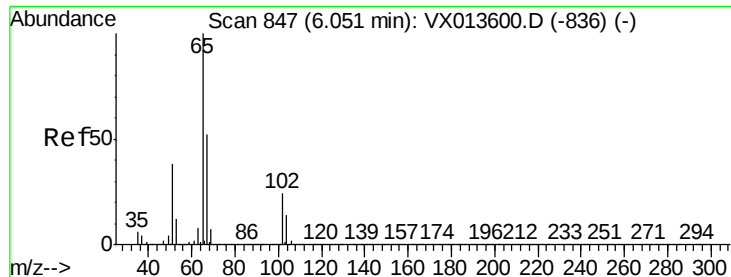
Ion Ratio Lower Upper

56 100

69 173.4 24.6 36.8#

84 173.5 70.0 105.0#





#33

1,2-Dichloroethane-d4

Concen: 48.666 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013975.D

Acq: 12 Dec 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

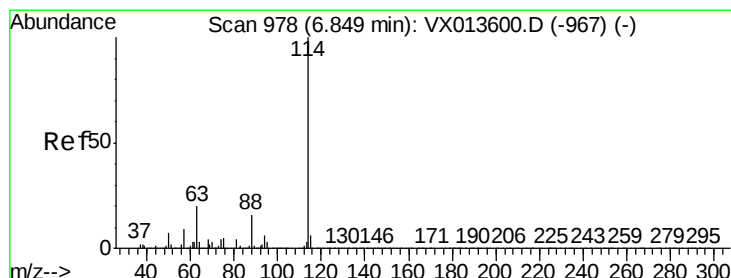
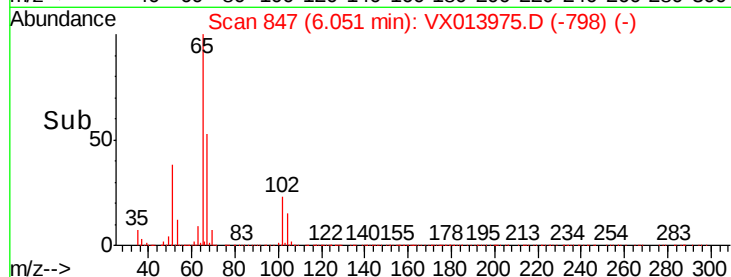
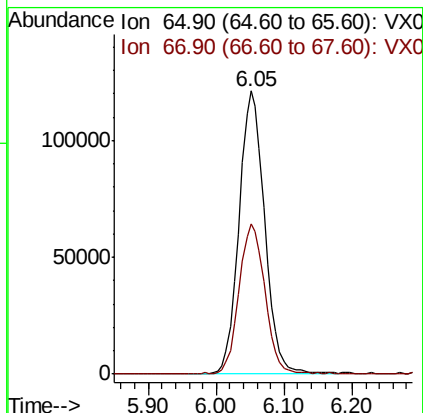
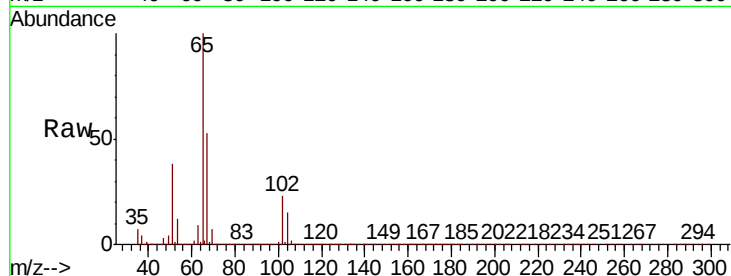
FB02-20191209

Tot Ion: 65 Resp: 315479

Ion Ratio Lower Upper

65 100

67 53.6 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013975.D

Acq: 12 Dec 2019 15:13

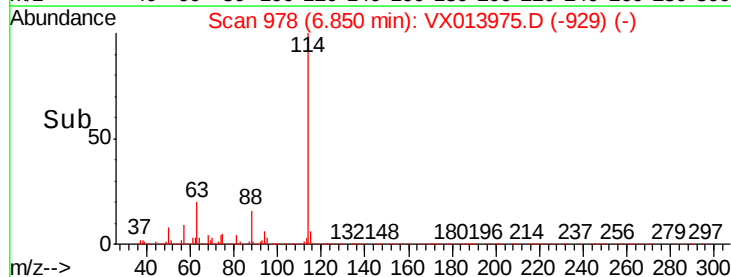
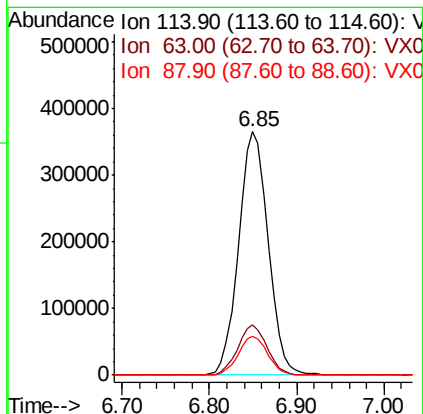
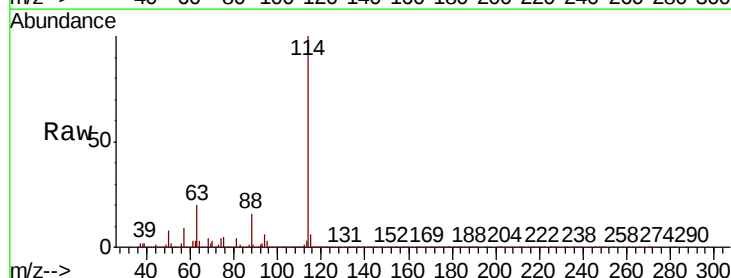
Tgt Ion: 114 Resp: 857008

Ion Ratio Lower Upper

114 100

63 20.4 0.0 39.6

88 15.6 0.0 31.4

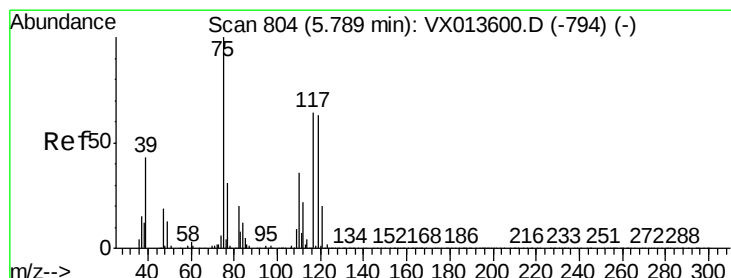
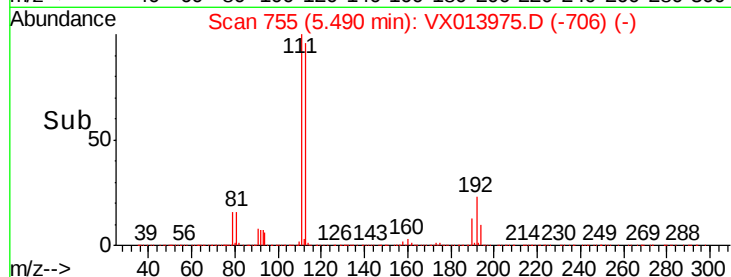
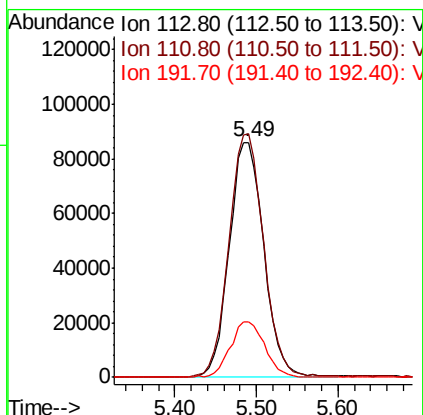
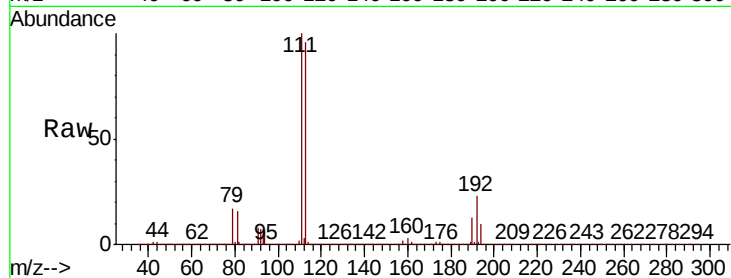




#35
Dibromofluoromethane
Concen: 47.466 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.00 min
Lab File: VX013975.D
Acq: 12 Dec 2019 15:13

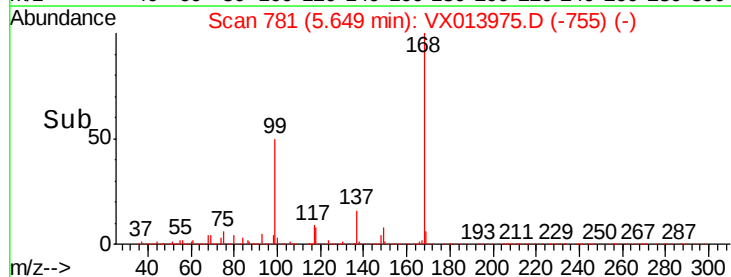
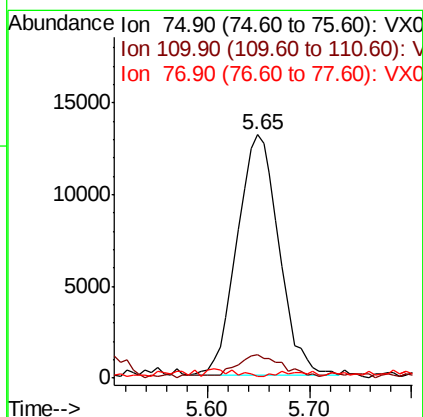
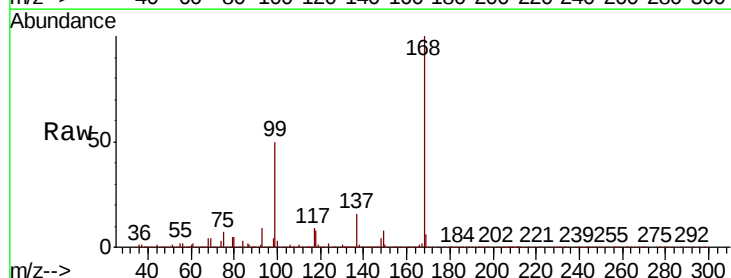
Instrument :
MSVOA_X
ClientSampleId :
FB02-20191209

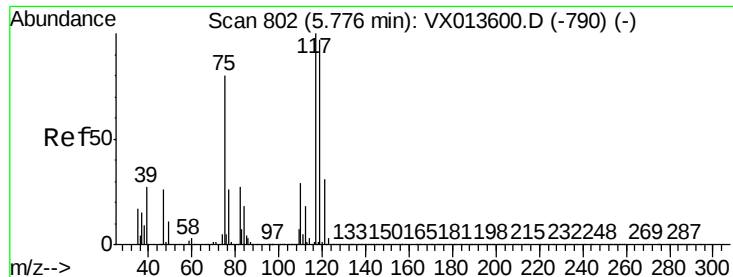
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.5	83.6	125.4
192	23.8	19.2	28.8



#36
1,1-Dichloropropene
Concen: 4.791 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.14 min
Lab File: VX013975.D
Acq: 12 Dec 2019 15:13

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.2	18.1	54.1#
77	0.0	24.5	36.7#





#38

Carbon Tetrachloride

Concen: 7.090 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013975.D

Acq: 12 Dec 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

FB02-20191209

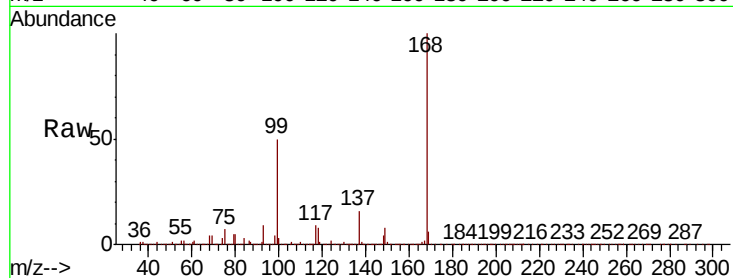
Tot Ion:117 Resp: 50860

Ion Ratio Lower Upper

117 100

119 4.9 77.5 116.3#

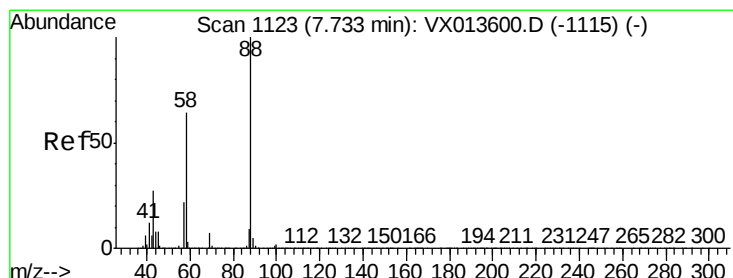
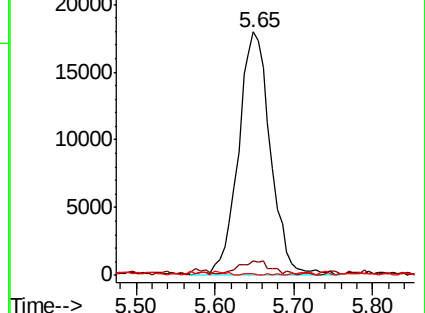
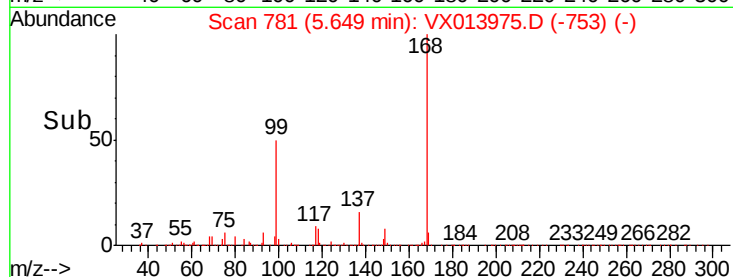
121 0.0 25.0 37.6#



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



#49

1,4-Dioxane

Concen: 1.254 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX013975.D

Acq: 12 Dec 2019 15:13

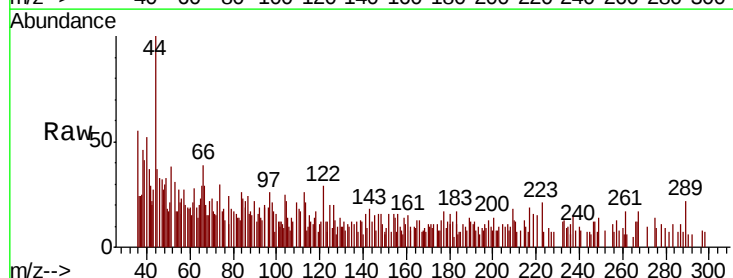
Tgt Ion: 88 Resp: 196

Ion Ratio Lower Upper

88 100

43 0.0 25.8 38.6#

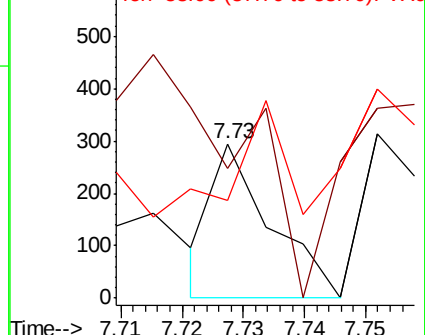
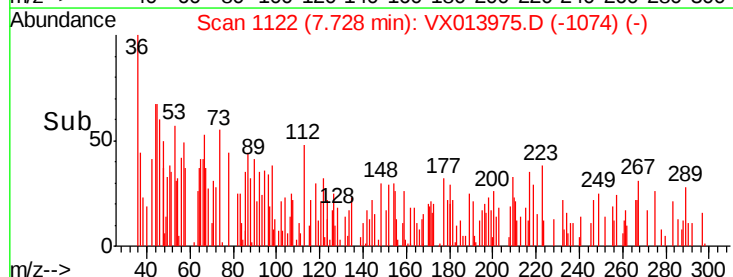
58 58.7 54.6 82.0

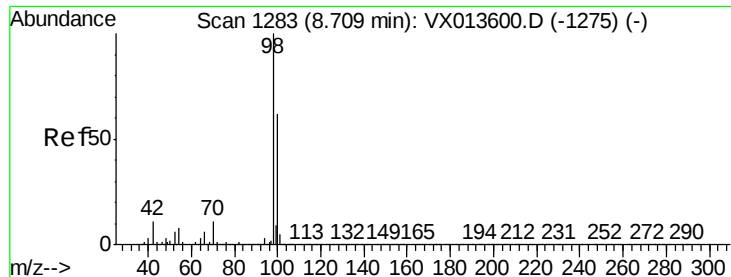


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.256 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013975.D

Acq: 12 Dec 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

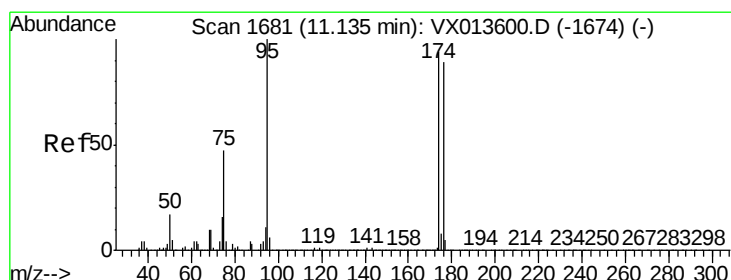
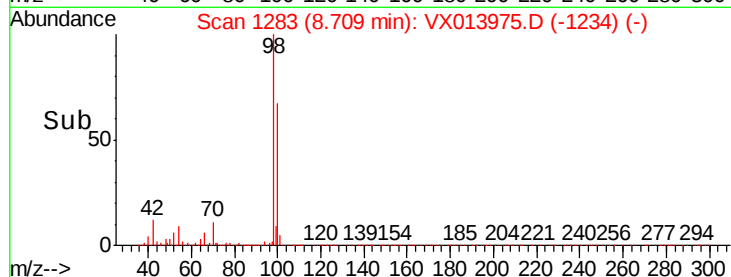
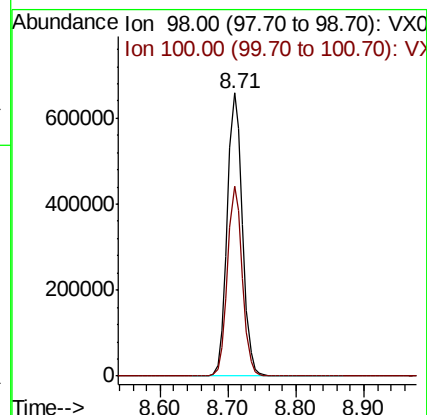
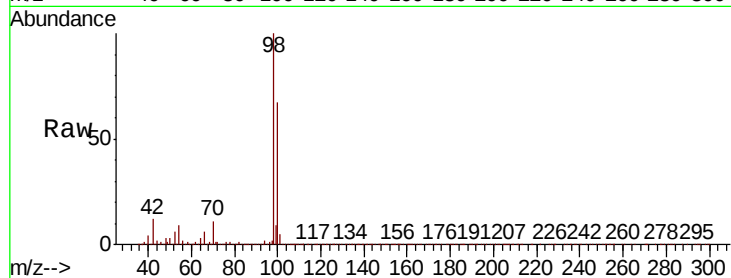
FB02-20191209

Tot Ion: 98 Resp: 1016743

Ion Ratio Lower Upper

98 100

100 65.8 53.1 79.7



#62

4-Bromofluorobenzene

Concen: 44.504 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013975.D

Acq: 12 Dec 2019 15:13

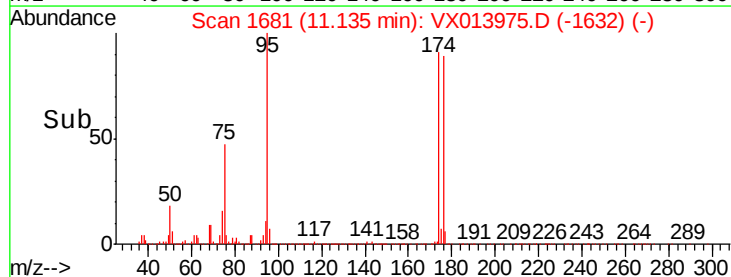
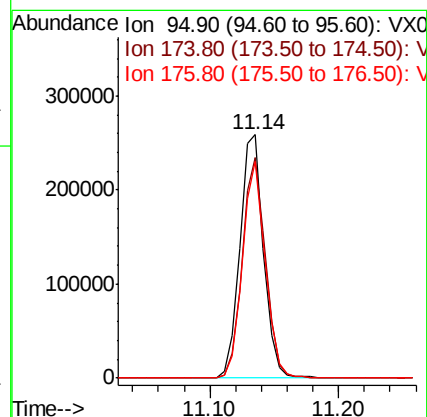
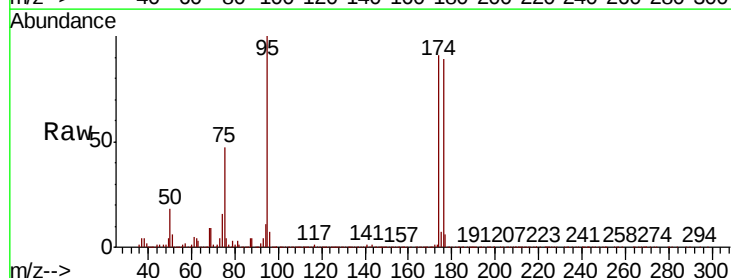
Tgt Ion: 95 Resp: 331273

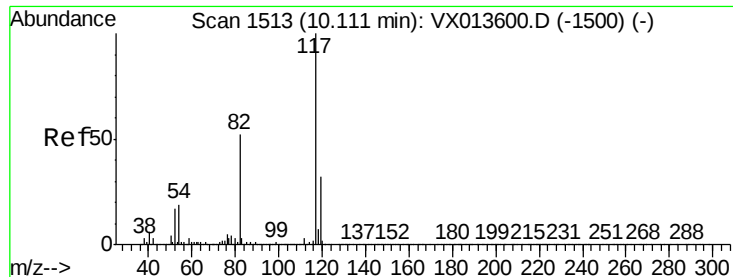
Ion Ratio Lower Upper

95 100

174 88.4 0.0 180.0

176 85.5 0.0 173.6

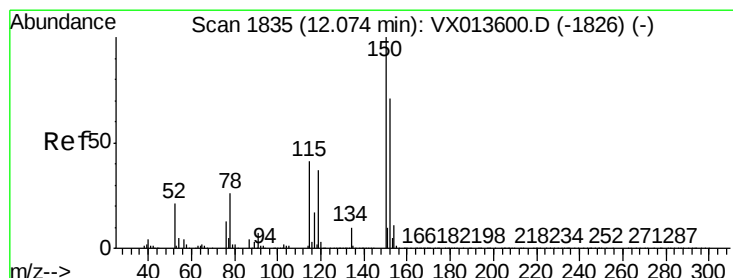
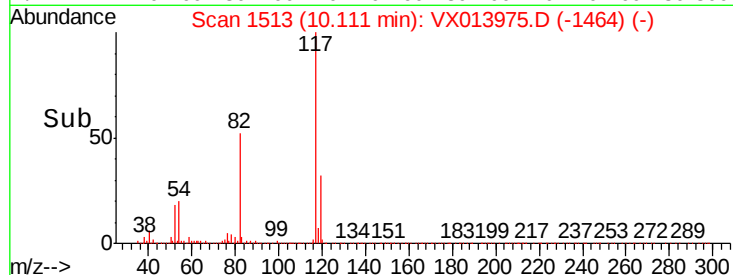
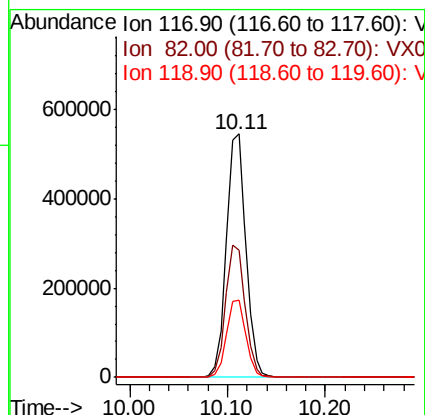
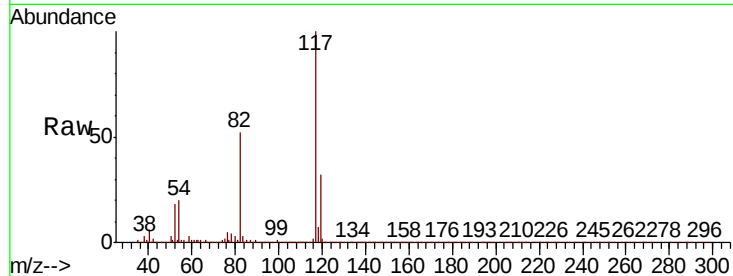




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013975.D
Acq: 12 Dec 2019 15:13

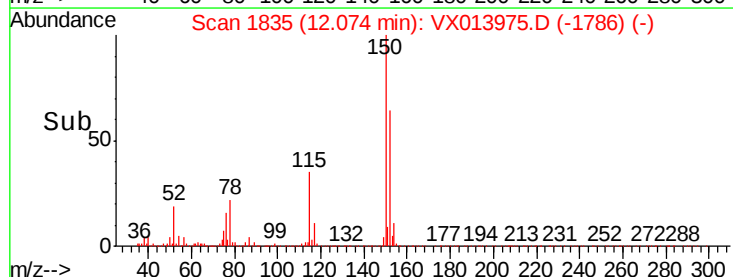
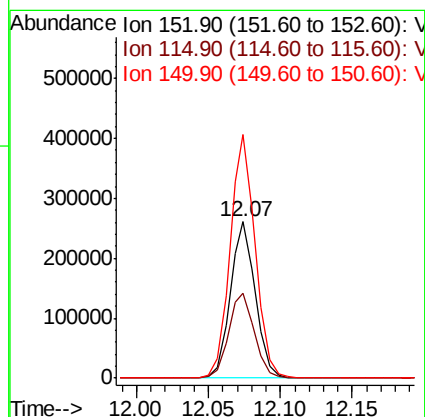
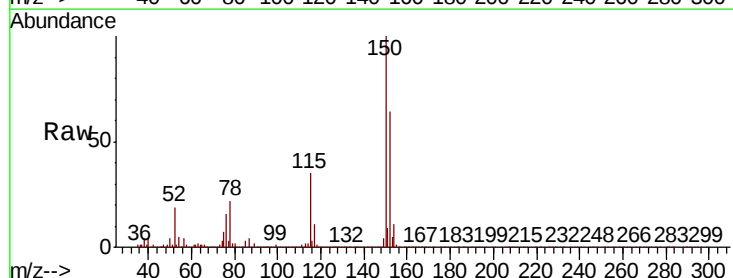
Instrument :
MSVOA_X
ClientSampleId :
FB02-20191209

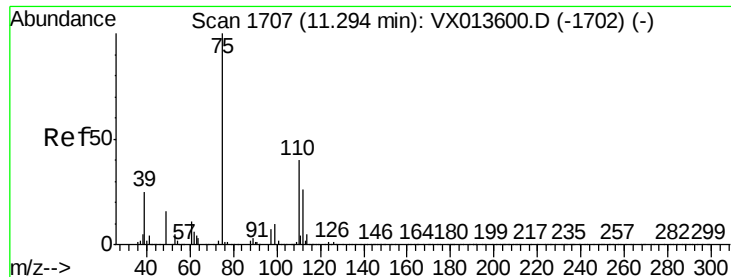
Tot Ion:117 Resp: 756762
Ion Ratio Lower Upper
117 100
82 52.0 41.8 62.8
119 31.5 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX013975.D
Acq: 12 Dec 2019 15:13

Tgt Ion:152 Resp: 317787
Ion Ratio Lower Upper
152 100
115 55.9 38.4 115.1
150 156.3 0.0 346.8





#76

1,2,3-Trichloropropane

Concen: 22.581 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013975.D

Acq: 12 Dec 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

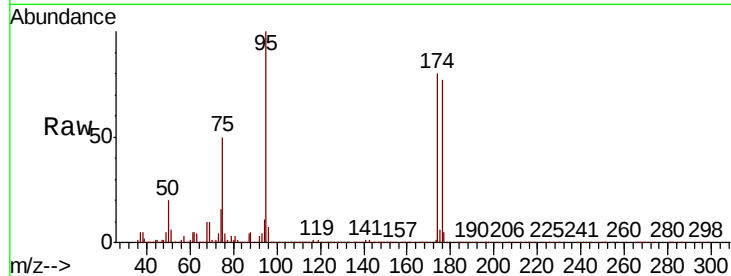
FB02-20191209

Tot Ion: 75 Resp: 161399

Ion Ratio Lower Upper

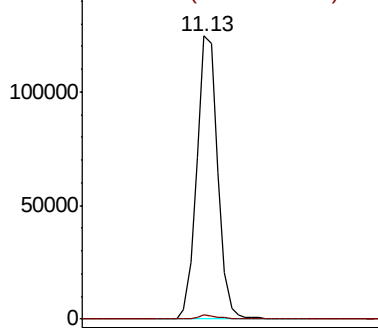
75 100

77 1.7 19.1 57.5#

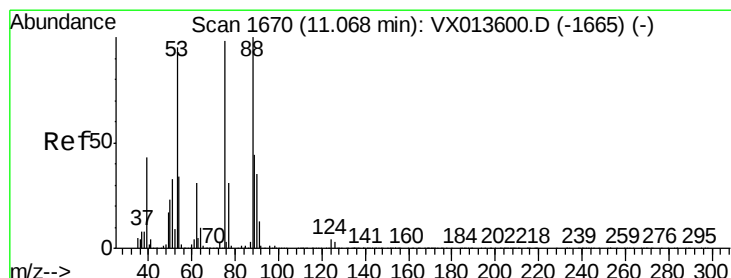
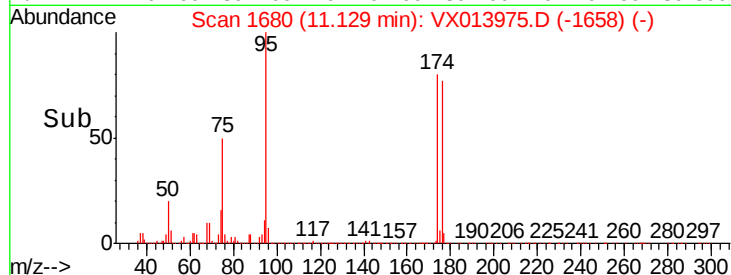


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 61.777 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013975.D

Acq: 12 Dec 2019 15:13

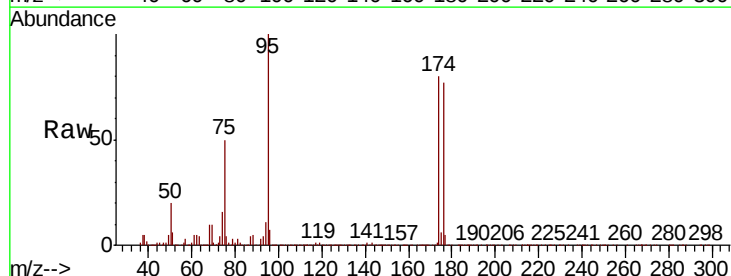
Tgt Ion: 75 Resp: 161399

Ion Ratio Lower Upper

75 100

53 0.4 78.2 117.2#

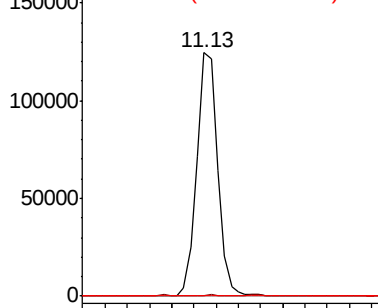
89 0.1 35.4 53.2#



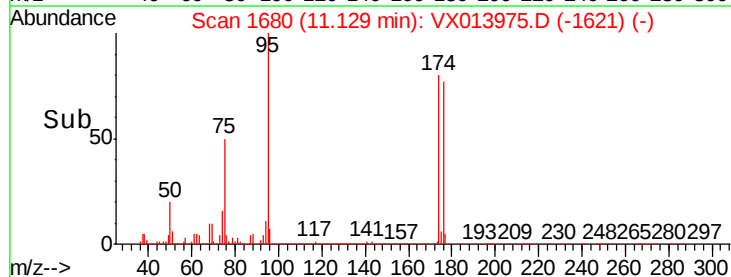
Abundance Ion 74.90 (74.60 to 75.60): VX0

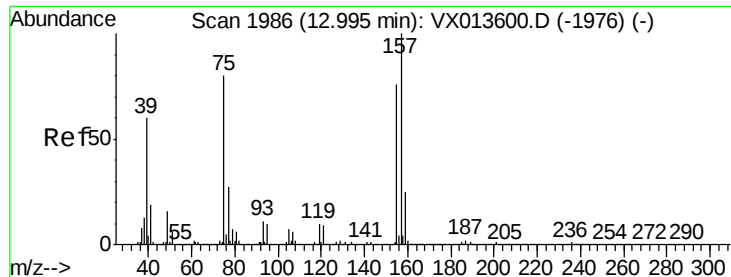
Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.212 ug/l

RT: 12.93 min Scan# 1975

Delta R.T. -0.07 min

Lab File: VX013975.D

Acq: 12 Dec 2019 15:13

Instrument :

MSVOA_X

ClientSampleId :

FB02-20191209

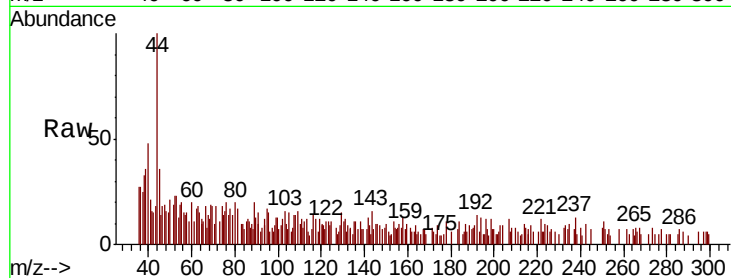
Tot Ion: 75 Resp: 357

Ion Ratio Lower Upper

75 100

155 69.7 47.6 142.8

157 70.6 62.1 186.2



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

