

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX100419\
 Data File : VX012820.D
 Acq On : 04 Oct 2019 18:31
 Operator : JC/SP
 Sample : K5189-24
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-DUP06-20191001

Quant Time: Oct 05 04:24:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	178948	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	305275	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	261662	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	102707	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	120380	46.20	ug/l	0.00
Spiked Amount			Recovery	=	92.40%	
35) Dibromofluoromethane	5.49	113	92122	50.67	ug/l	0.00
Spiked Amount			Recovery	=	101.34%	
50) Toluene-d8	8.71	98	362809	51.82	ug/l	0.00
Spiked Amount			Recovery	=	103.64%	
62) 4-Bromofluorobenzene	11.14	95	126489	45.95	ug/l	0.00
Spiked Amount			Recovery	=	91.90%	

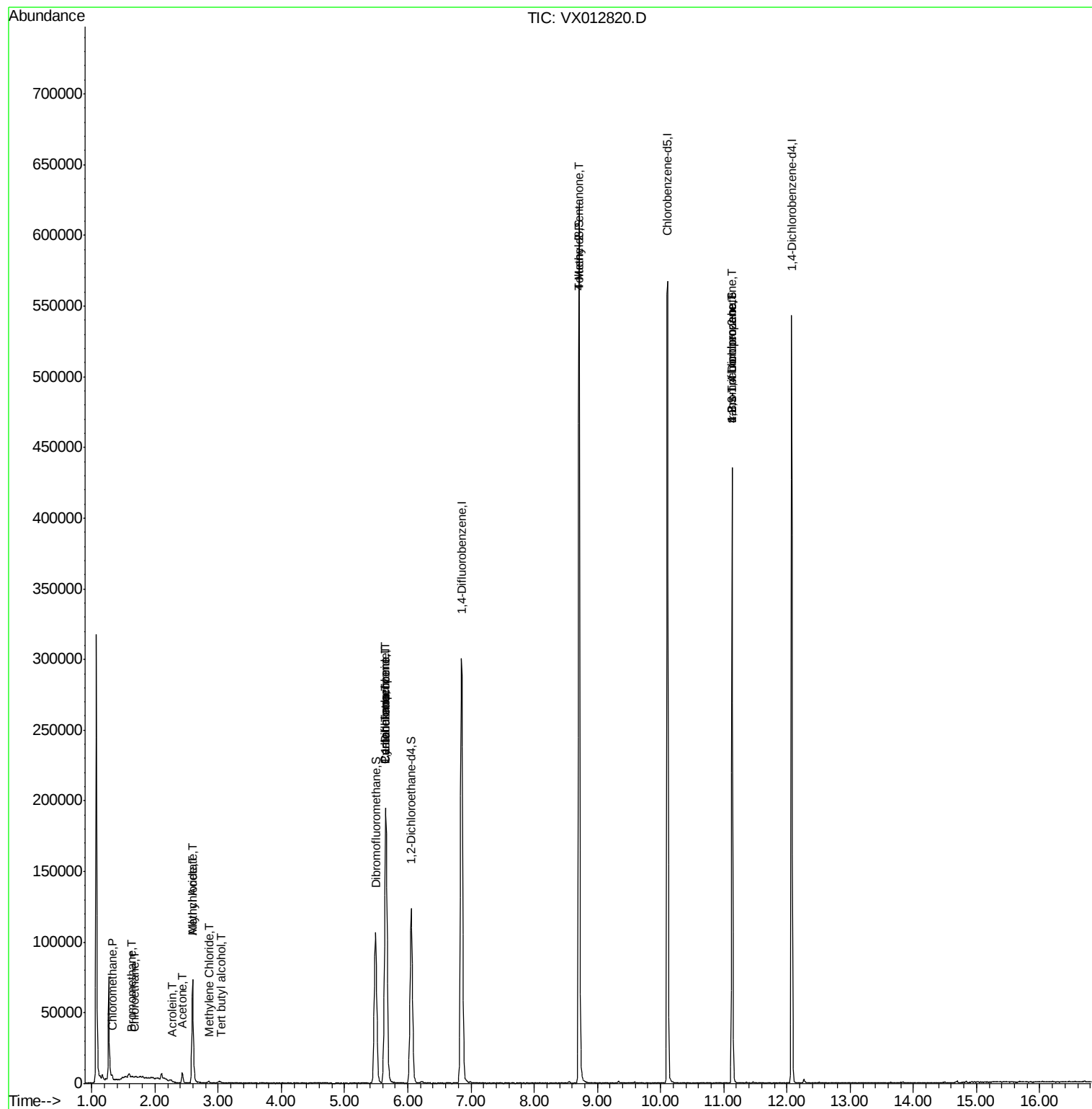
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1558	0.674	ug/l	96
5) Bromomethane	1.64	94	224	0.248	ug/l	82
6) Chloroethane	1.66	64	377	0.243	ug/l #	70
11) Tert butyl alcohol	3.04	59	1619	2.487	ug/l #	88
13) Acrolein	2.28	56	43	10.347	ug/l #	55
14) Allyl chloride	2.59	41	6951	1.821	ug/l #	69
16) Acetone	2.43	43	7526	5.453	ug/l #	86
18) Methyl Acetate	2.59	43	17663	5.435	ug/l #	54
20) Methylene Chloride	2.85	84	488	0.209	ug/l #	73
31) Cyclohexane	5.64	56	3947	1.088	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	14426	4.903	ug/l #	52
38) Carbon Tetrachloride	5.65	117	18114	6.060	ug/l #	15
51) 4-Methyl-2-Pentanone	8.71	43	1733	0.488	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	63265	23.286	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	63265	66.733	ug/l #	8

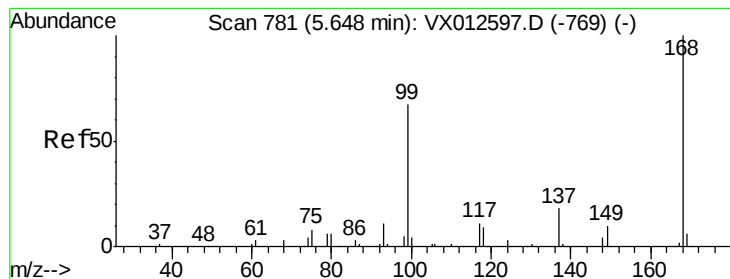
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Sep 23 12:27:01 2019
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: VX012820.D

Acq: 04 Oct 2019 18:31

Instrument :

MSVOA_X

ClientSampleId :

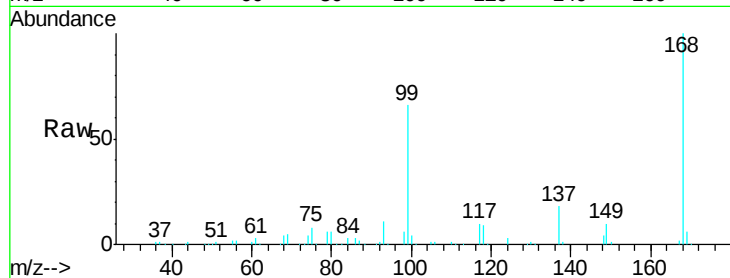
SA-DUP06-20191001

Tgt Ion:168 Resp: 178948

Ion Ratio Lower Upper

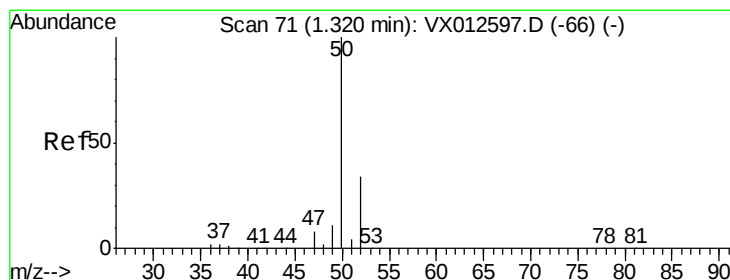
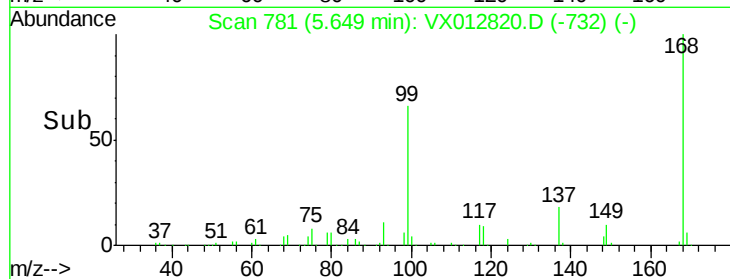
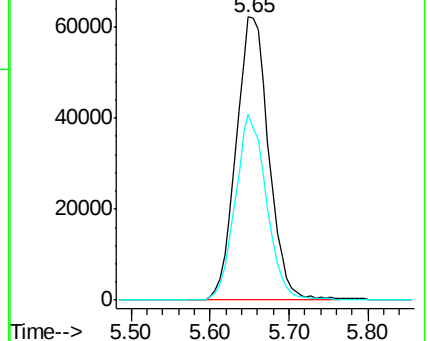
168 100

99 65.8 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.674 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012820.D

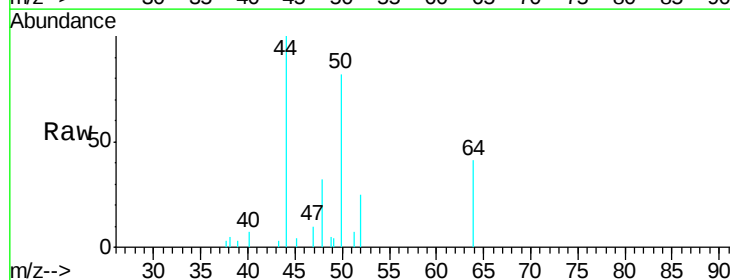
Acq: 04 Oct 2019 18:31

Tgt Ion: 50 Resp: 1558

Ion Ratio Lower Upper

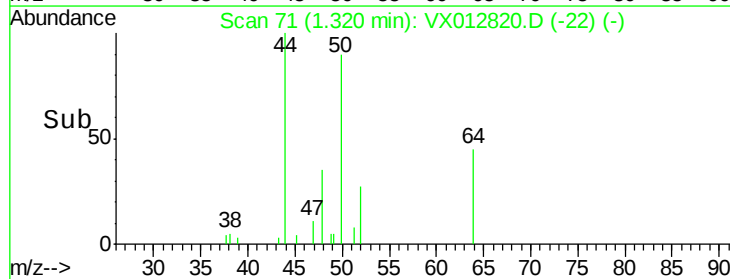
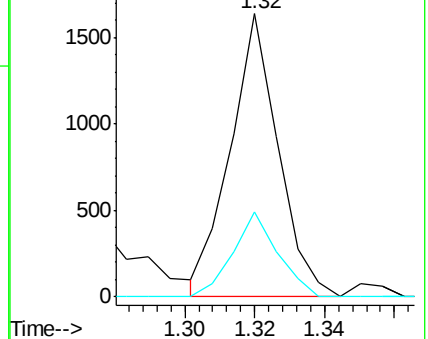
50 100

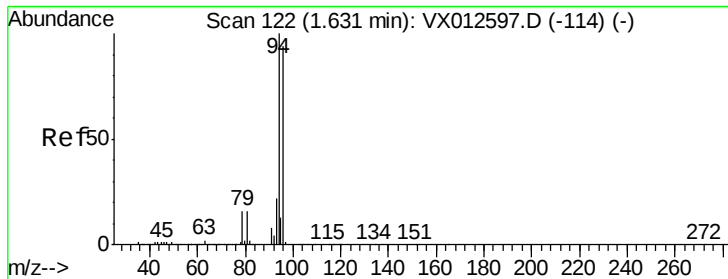
52 30.0 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.248 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX012820.D

Acq: 04 Oct 2019 18:31

Instrument :

MSVOA_X

ClientSampleId :

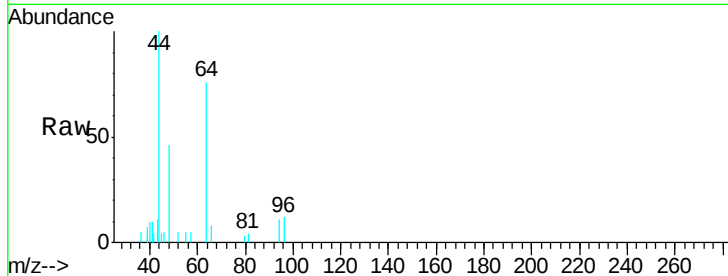
SA-DUP06-20191001

Tgt Ion: 94 Resp: 224

Ion Ratio Lower Upper

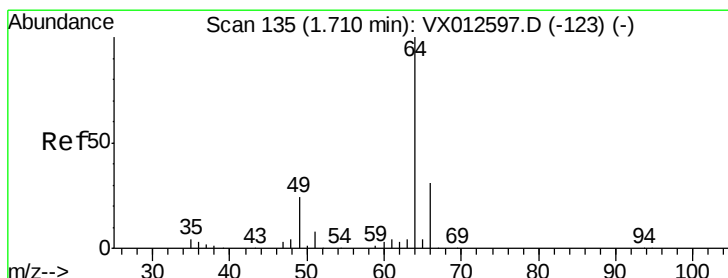
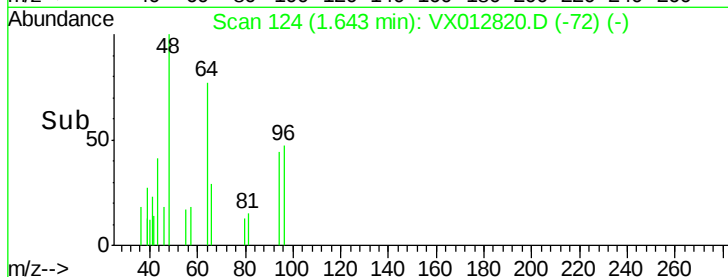
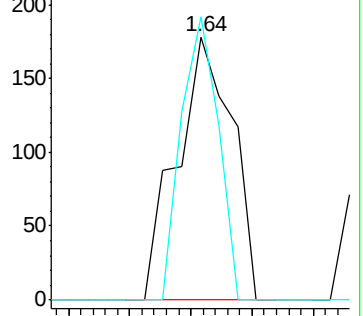
94 100

96 107.9 72.8 109.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.243 ug/l

RT: 1.66 min Scan# 127

Delta R.T. -0.05 min

Lab File: VX012820.D

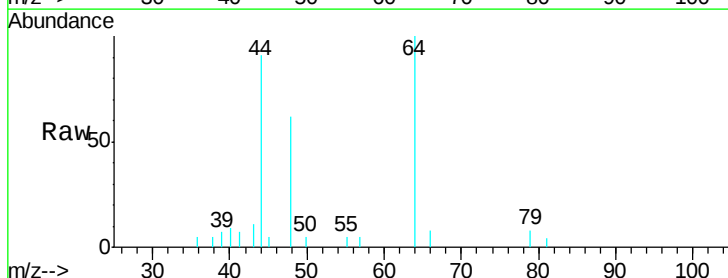
Acq: 04 Oct 2019 18:31

Tgt Ion: 64 Resp: 377

Ion Ratio Lower Upper

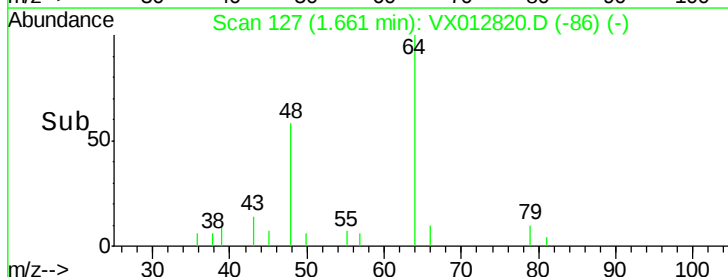
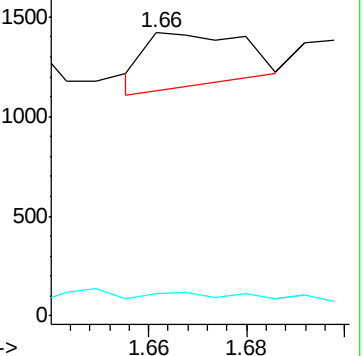
64 100

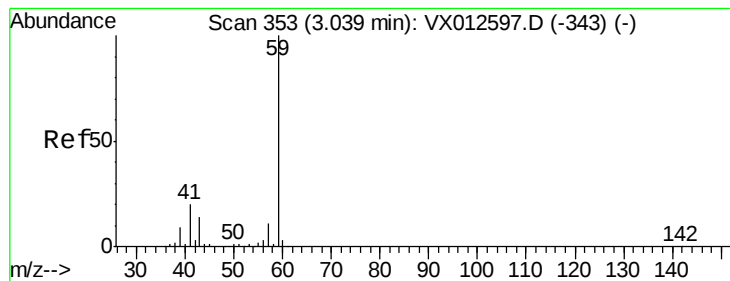
66 13.7 24.0 36.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



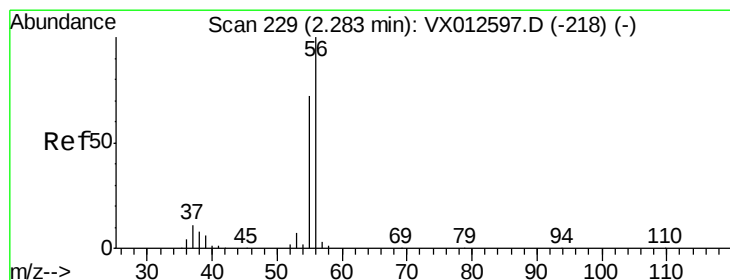
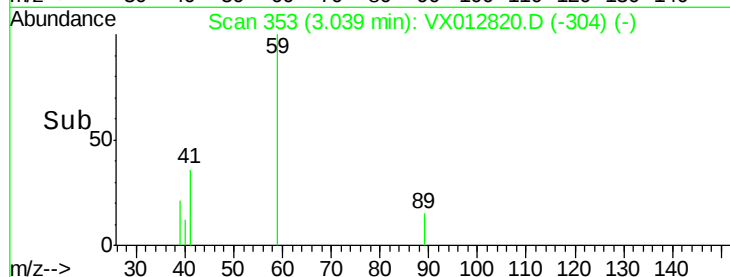
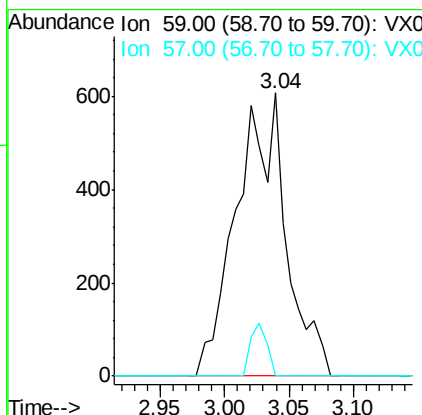
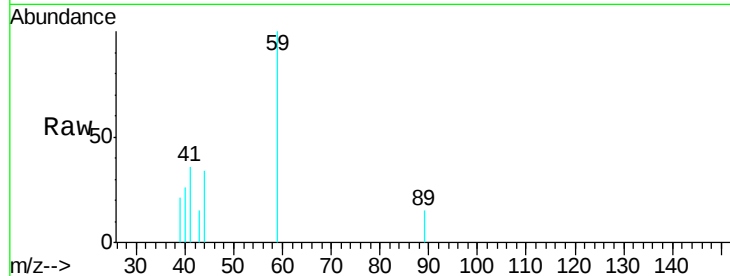


#11

Tert butyl alcohol
 Concen: 2.487 ug/l
 RT: 3.04 min Scan# 353
 Delta R.T. 0.00 min
 Lab File: VX012820.D
 Acq: 04 Oct 2019 18:31

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-DUP06-20191001

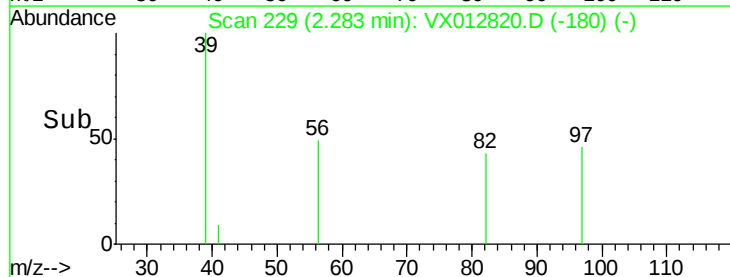
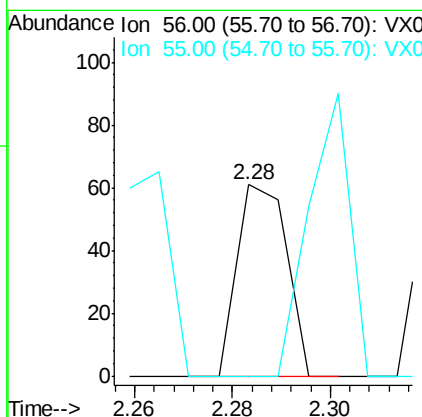
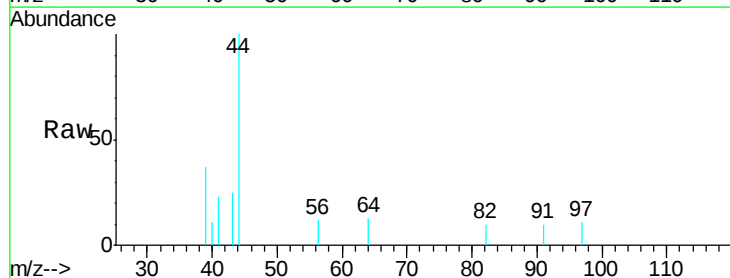
Tgt Ion: 59 Resp: 1619
 Ion Ratio Lower Upper
 59 100
 57 6.0 8.3 12.5#

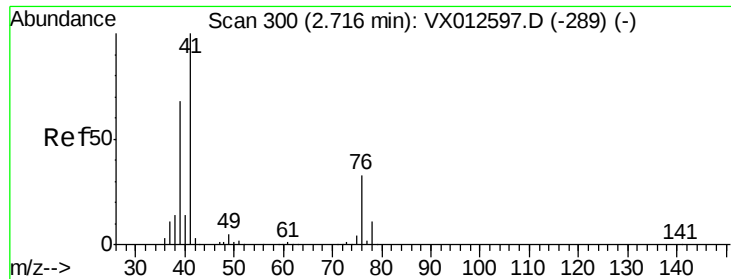


#13

Acrolein
 Concen: 10.347 ug/l
 RT: 2.28 min Scan# 229
 Delta R.T. 0.00 min
 Lab File: VX012820.D
 Acq: 04 Oct 2019 18:31

Tgt Ion: 56 Resp: 43
 Ion Ratio Lower Upper
 56 100
 55 107.0 55.8 83.8#

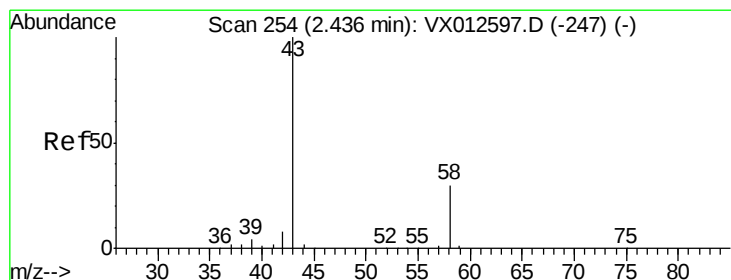
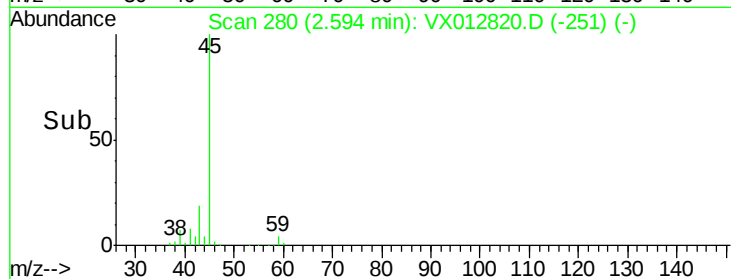
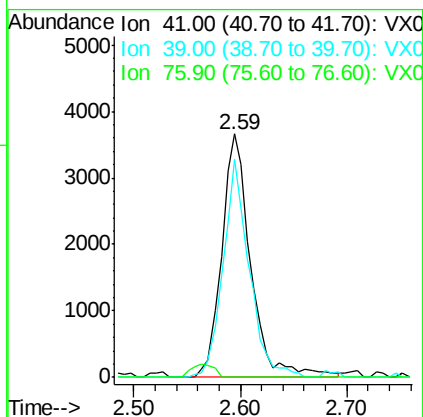
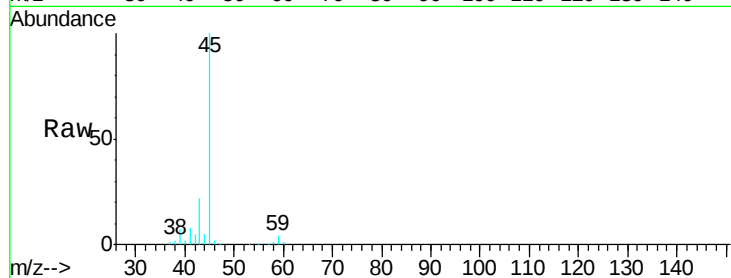




#14
 Allyl chloride
 Concen: 1.821 ug/l
 RT: 2.59 min Scan# 280
 Delta R.T. -0.12 min
 Lab File: VX012820.D
 Acq: 04 Oct 2019 18:31

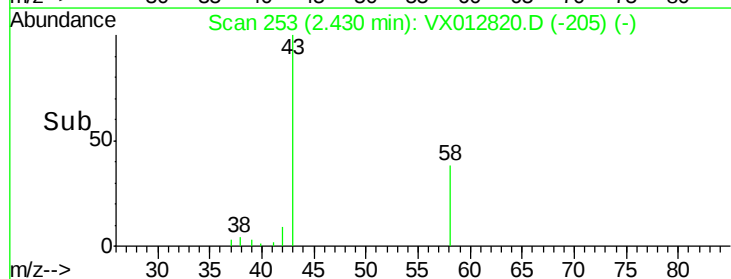
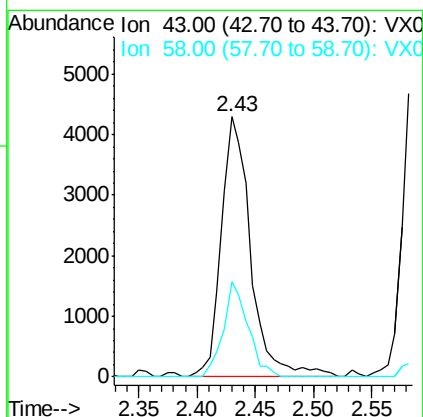
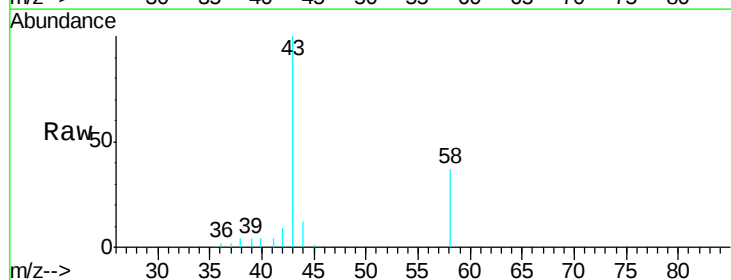
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-DUP06-20191001

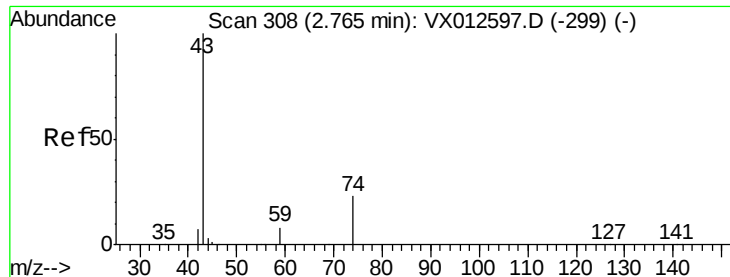
Tgt Ion: 41 Resp: 6951
 Ion Ratio Lower Upper
 41 100
 39 81.2 51.3 76.9#
 76 0.0 22.6 33.8#



#16
 Acetone
 Concen: 5.453 ug/l
 RT: 2.43 min Scan# 253
 Delta R.T. -0.01 min
 Lab File: VX012820.D
 Acq: 04 Oct 2019 18:31

Tgt Ion: 43 Resp: 7526
 Ion Ratio Lower Upper
 43 100
 58 36.9 23.3 34.9#





#18

Methyl Acetate

Concen: 5.435 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.17 min

Lab File: VX012820.D

Acq: 04 Oct 2019 18:31

Instrument :

MSVOA_X

ClientSampleId :

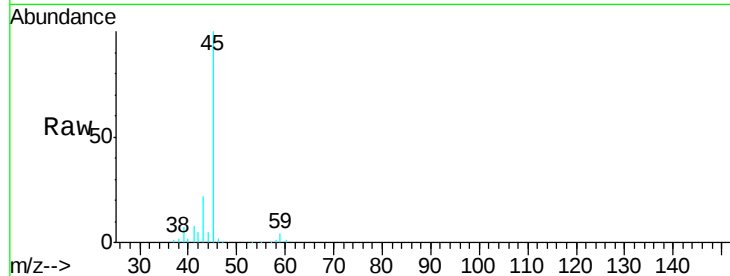
SA-DUP06-20191001

Tgt Ion: 43 Resp: 17663

Ion Ratio Lower Upper

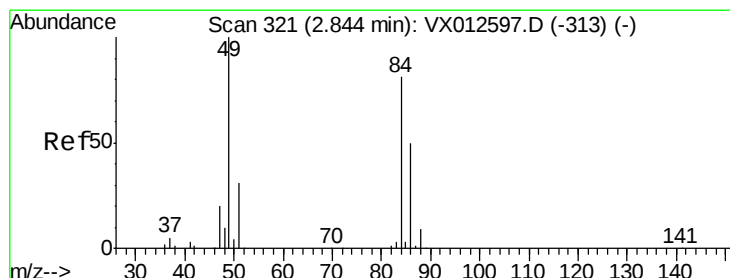
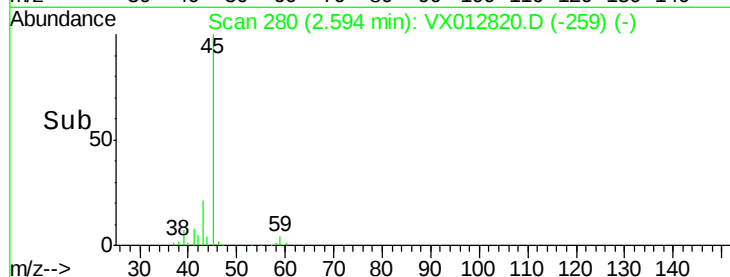
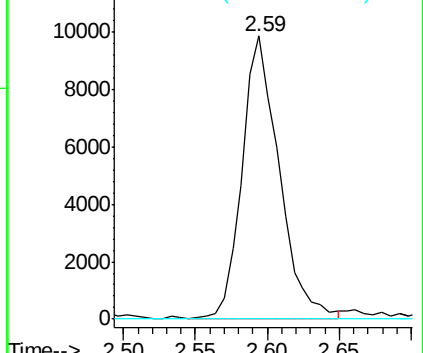
43 100

74 0.0 17.7 26.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#20

Methylene Chloride

Concen: 0.209 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.01 min

Lab File: VX012820.D

Acq: 04 Oct 2019 18:31

Tgt Ion: 84 Resp: 488

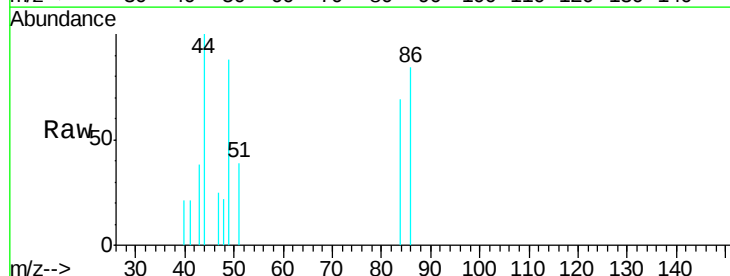
Ion Ratio Lower Upper

84 100

49 127.4 106.8 160.2

51 57.0 32.3 48.5#

86 121.1 51.3 76.9#

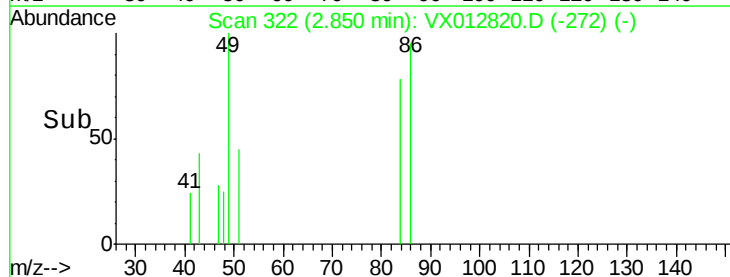
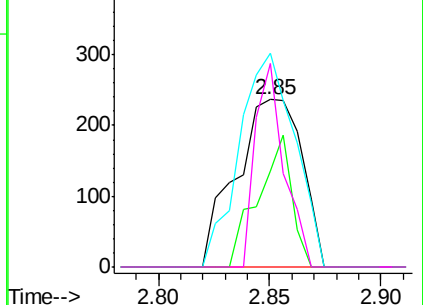


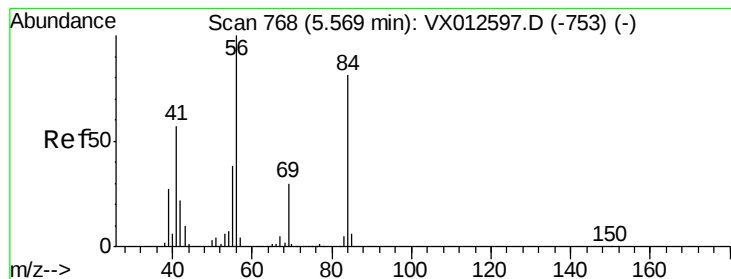
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#31

Cyclohexane

Concen: 1.088 ug/l

RT: 5.64 min Scan# 780

Delta R.T. 0.07 min

Lab File: VX012820.D

Acq: 04 Oct 2019 18:31

Instrument :

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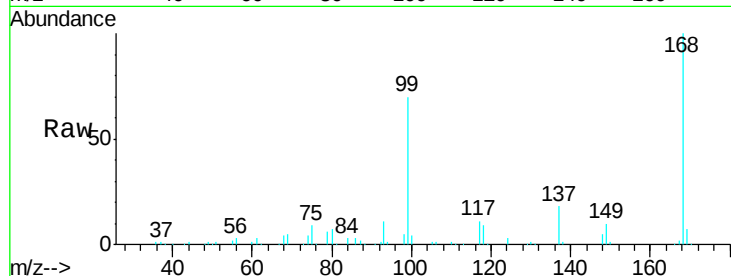
Tgt Ion: 56 Resp: 3947

Ion Ratio Lower Upper

56 100

69 184.5 25.0 37.6#

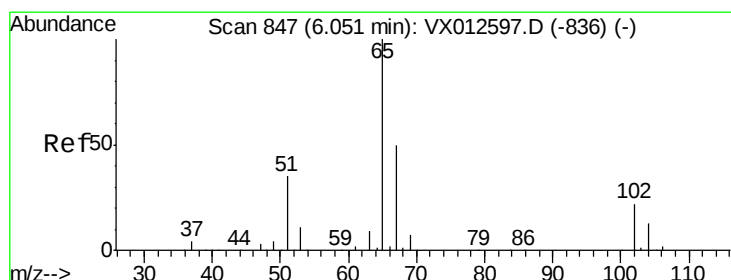
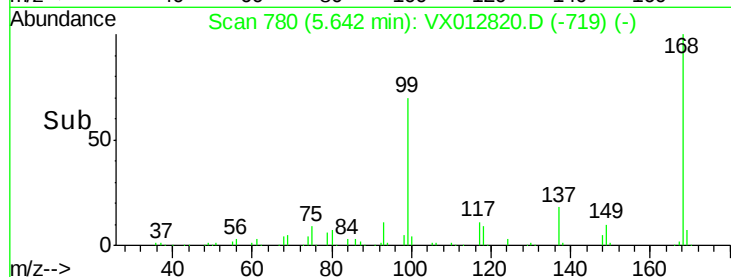
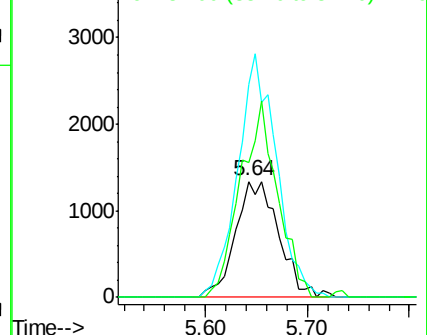
84 116.1 66.4 99.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 46.196 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX012820.D

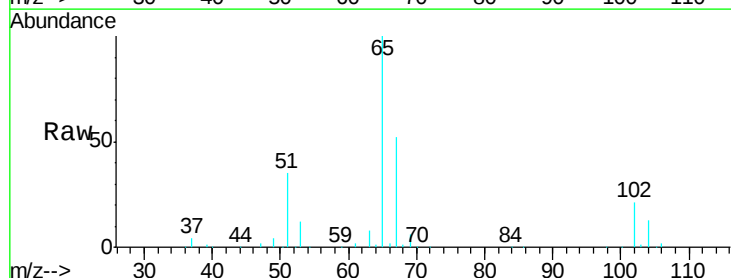
Acq: 04 Oct 2019 18:31

Tgt Ion: 65 Resp: 120380

Ion Ratio Lower Upper

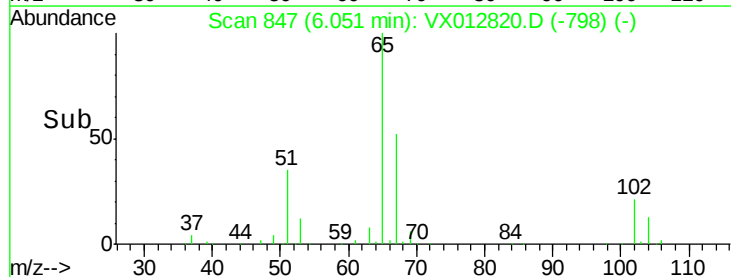
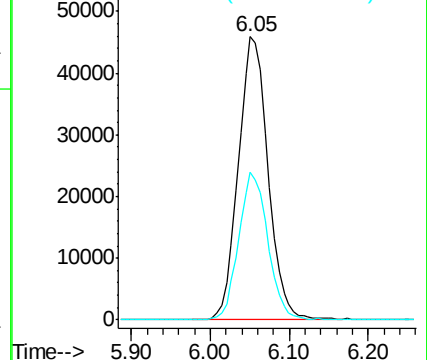
65 100

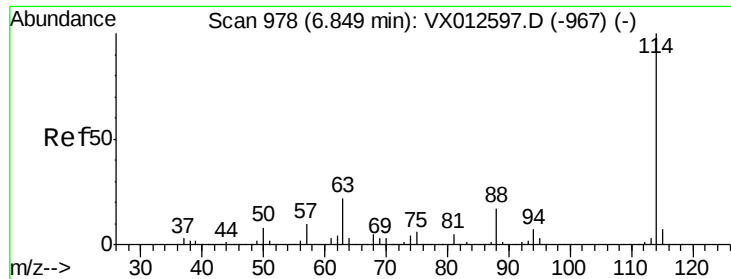
67 51.2 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

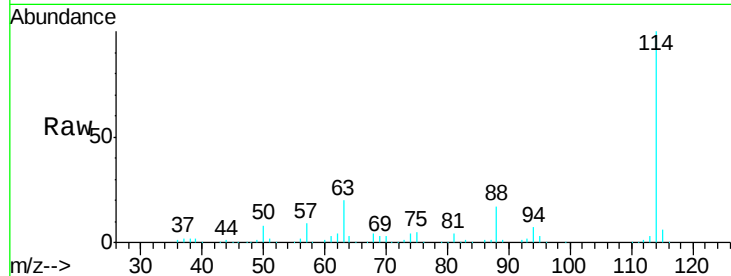




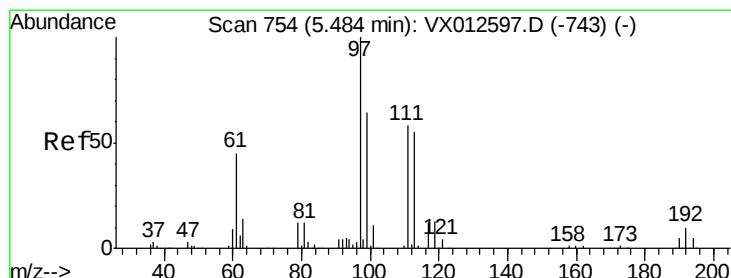
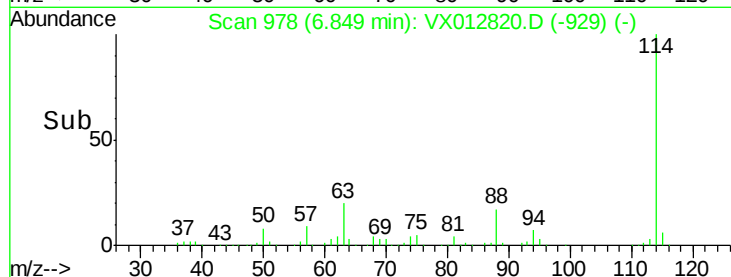
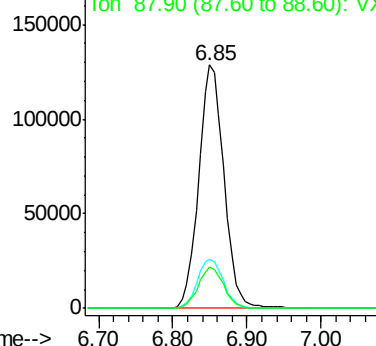
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 978
Delta R.T. 0.00 min
Lab File: VX012820.D
Acq: 04 Oct 2019 18:31

Instrument :
MSVOA_X
ClientSampleId :
SA-DUP06-20191001

Tgt Ion:114 Resp: 305275
Ion Ratio Lower Upper
114 100
63 20.0 0.0 43.2
88 17.1 0.0 33.2

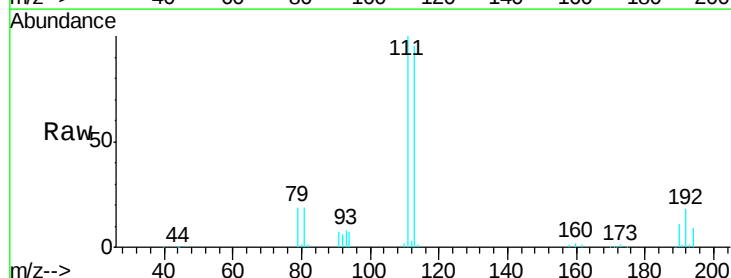


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

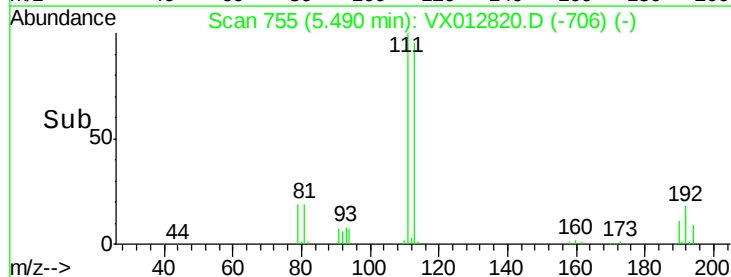
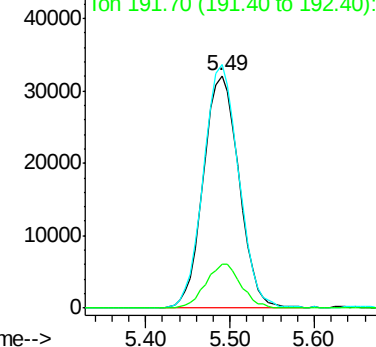


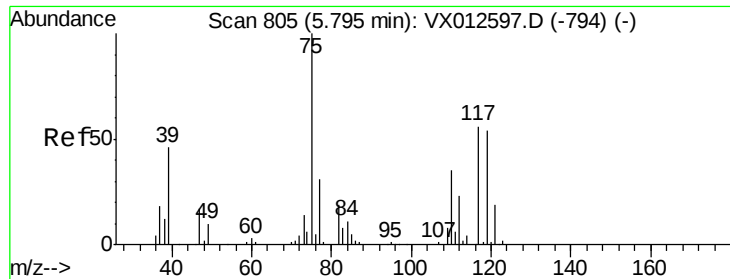
#35
Dibromofluoromethane
Concen: 50.671 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.00 min
Lab File: VX012820.D
Acq: 04 Oct 2019 18:31

Tgt Ion:113 Resp: 92122
Ion Ratio Lower Upper
113 100
111 103.5 83.4 125.2
192 18.8 14.4 21.6



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

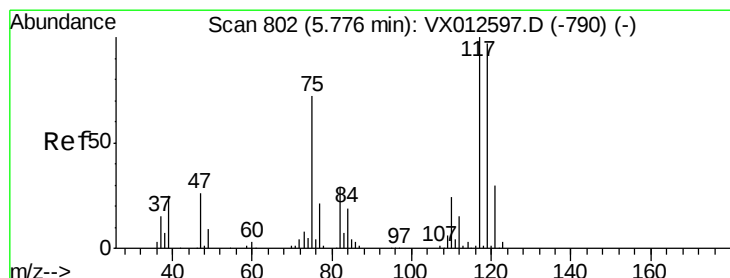
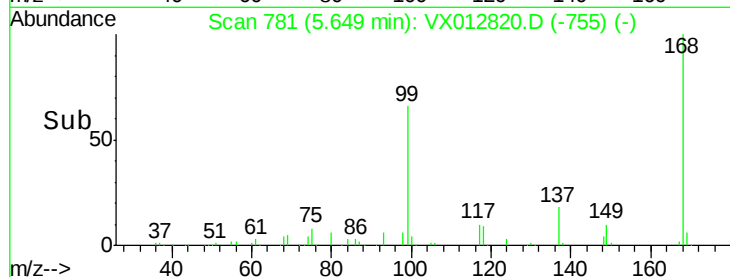
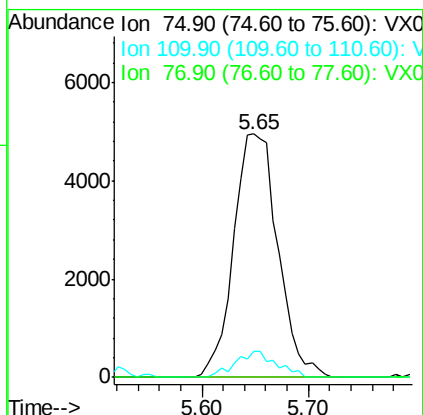
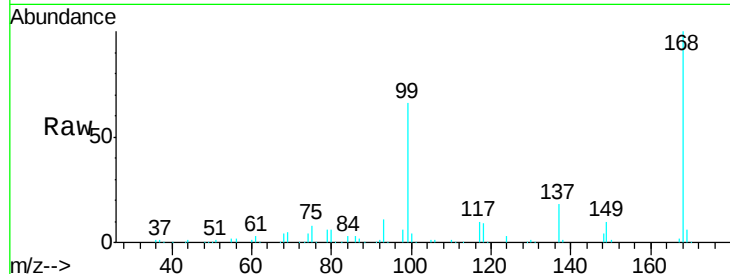




#36
 1,1-Dichloropropene
 Concen: 4.903 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX012820.D
 Acq: 04 Oct 2019 18:31

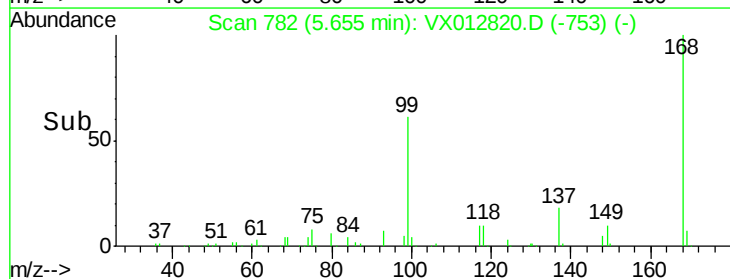
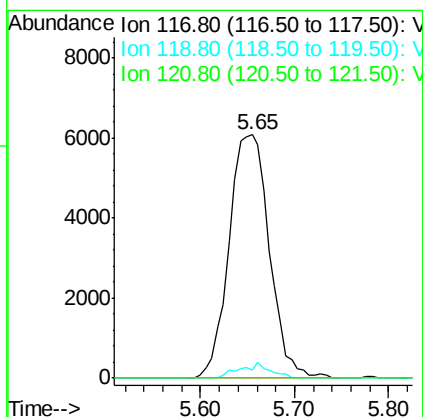
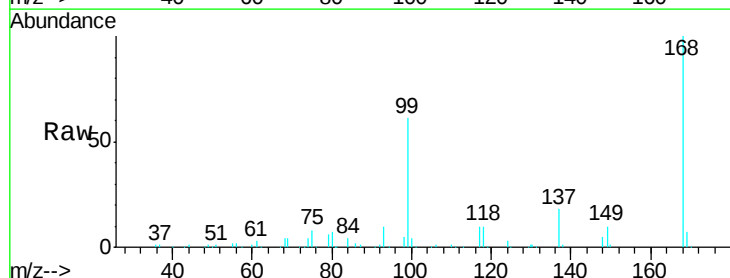
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-DUP06-20191001

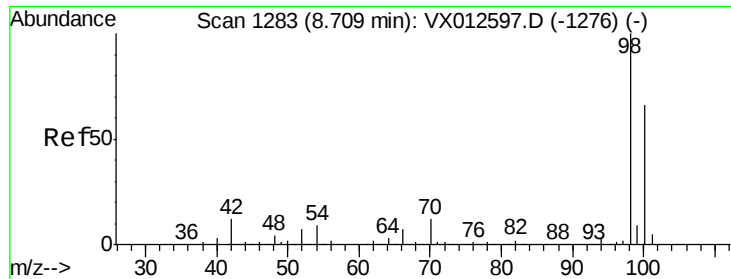
Tgt Ion: 75 Resp: 14426
 Ion Ratio Lower Upper
 75 100
 110 9.9 16.7 50.0#
 77 0.0 24.2 36.2#



#38
 Carbon Tetrachloride
 Concen: 6.060 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX012820.D
 Acq: 04 Oct 2019 18:31

Tgt Ion: 117 Resp: 18114
 Ion Ratio Lower Upper
 117 100
 119 3.5 75.7 113.5#
 121 0.0 24.2 36.4#





#50

Toluene-d8

Concen: 51.819 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012820.D

Acq: 04 Oct 2019 18:31

Instrument :

MSVOA_X

ClientSampleId :

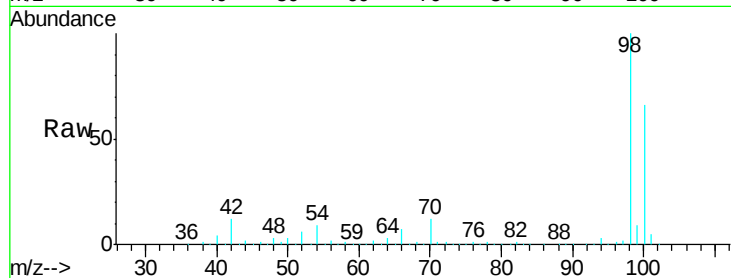
SA-DUP06-20191001

Tgt Ion: 98 Resp: 362809

Ion Ratio Lower Upper

98 100

100 66.1 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX012597.D (-1276) (-)

Ion 100.00 (99.70 to 100.70): VX012597.D (-1276) (-)

8.71

250000

200000

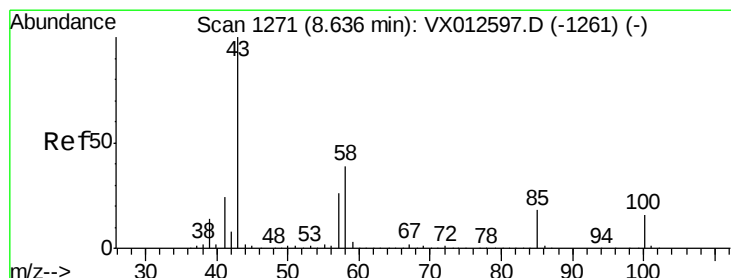
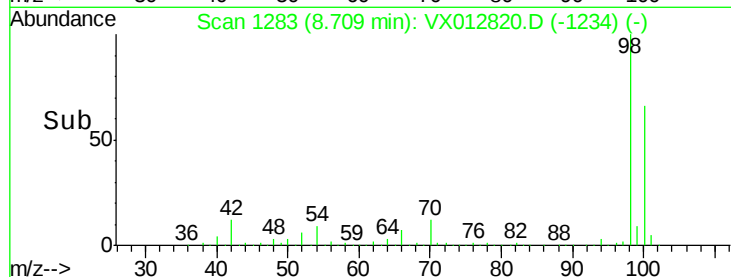
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.488 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VX012820.D

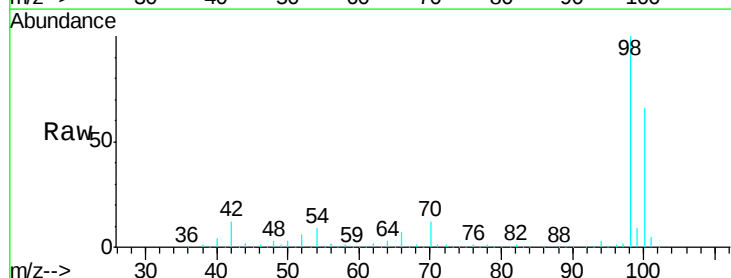
Acq: 04 Oct 2019 18:31

Tgt Ion: 43 Resp: 1733

Ion Ratio Lower Upper

43 100

58 165.9 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VX012597.D (-1261) (-)

Ion 58.00 (57.70 to 58.70): VX012597.D (-1261) (-)

8.71

2000

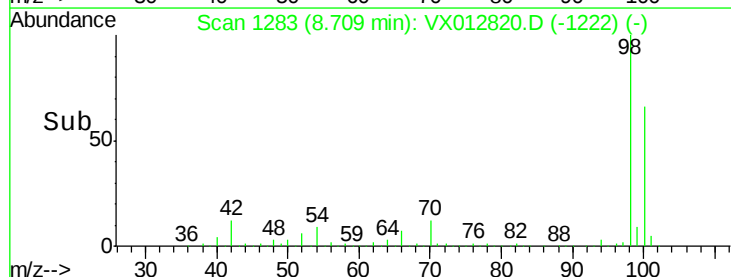
1500

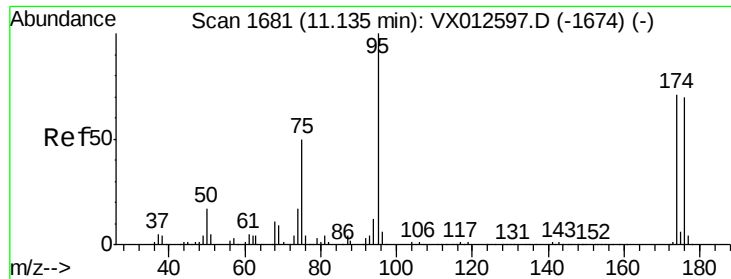
1000

500

0

Time-->





#62

4-Bromofluorobenzene

Concen: 45.946 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012820.D

Acq: 04 Oct 2019 18:31

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP06-20191001

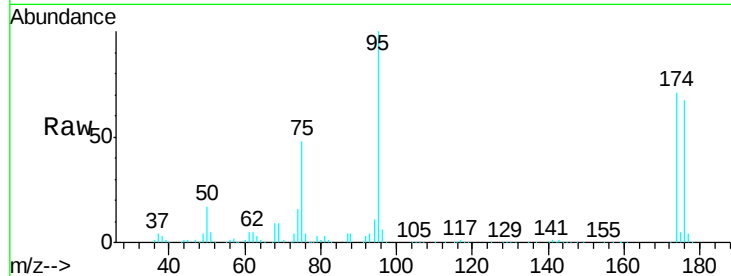
Tgt Ion: 95 Resp: 126489

Ion Ratio Lower Upper

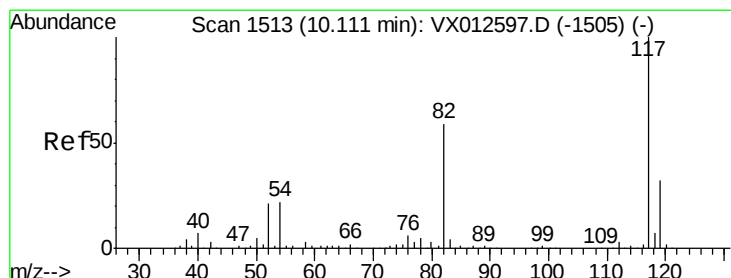
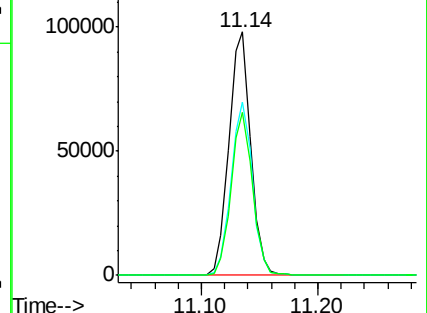
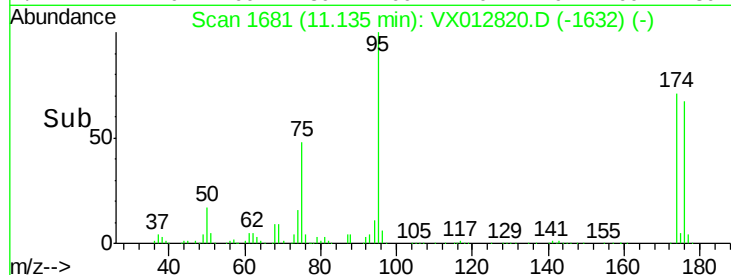
95 100

174 70.4 0.0 140.0

176 66.3 0.0 135.4



Abundance Ion 94.90 (94.60 to 95.60): VX012820.D (-1632) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012820.D

Acq: 04 Oct 2019 18:31

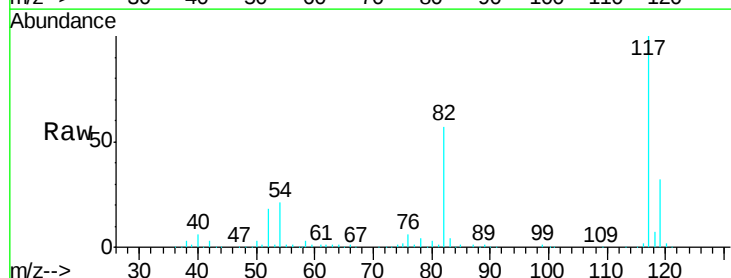
Tgt Ion: 117 Resp: 261662

Ion Ratio Lower Upper

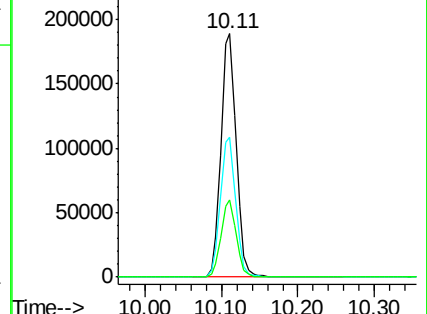
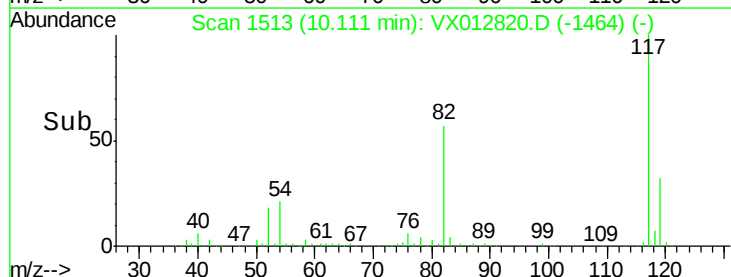
117 100

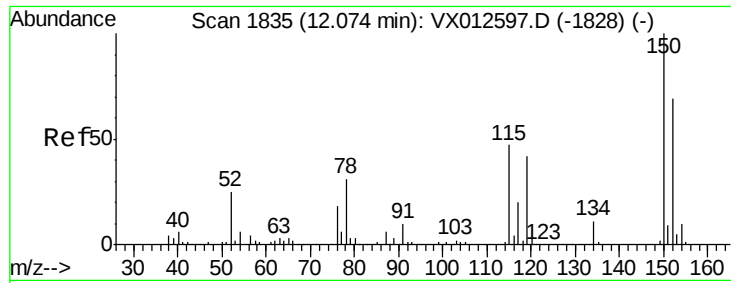
82 57.2 45.9 68.9

119 31.8 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): VX012820.D (-1464) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012820.D

Acq: 04 Oct 2019 18:31

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP06-20191001

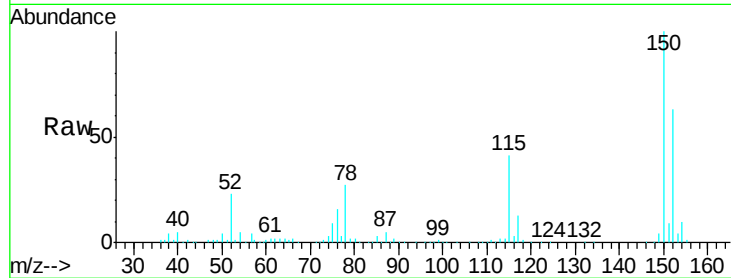
Tgt Ion:152 Resp: 102707

Ion Ratio Lower Upper

152 100

115 64.7 44.1 132.3

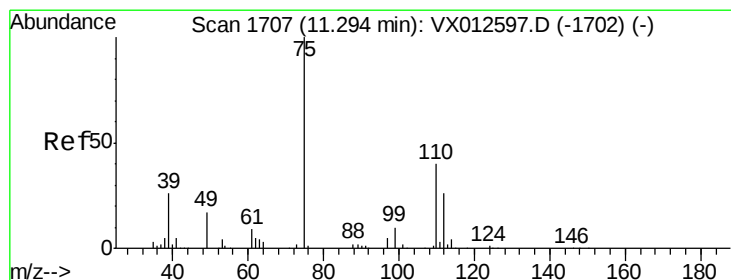
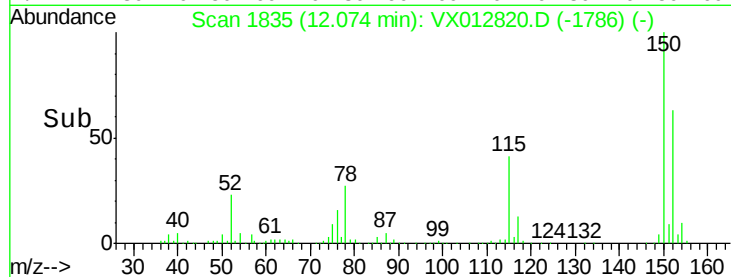
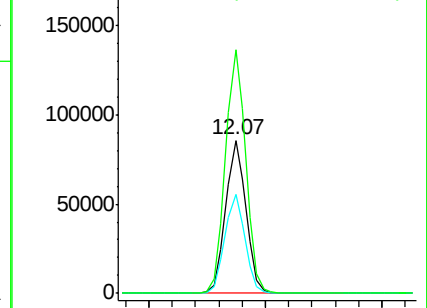
150 159.5 0.0 343.8



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: 23.286 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012820.D

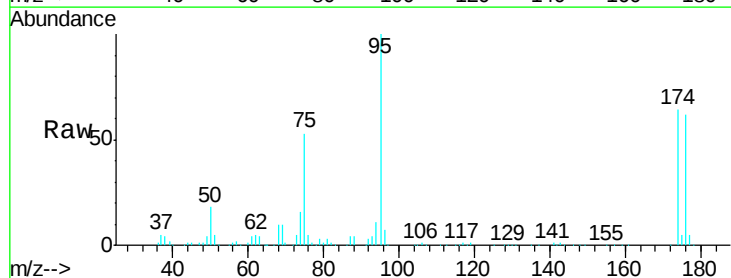
Acq: 04 Oct 2019 18:31

Tgt Ion: 75 Resp: 63265

Ion Ratio Lower Upper

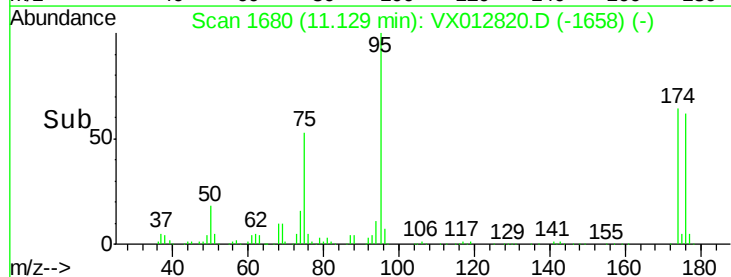
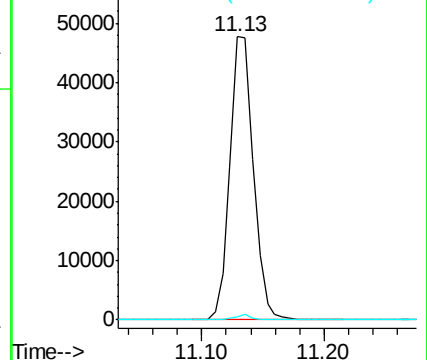
75 100

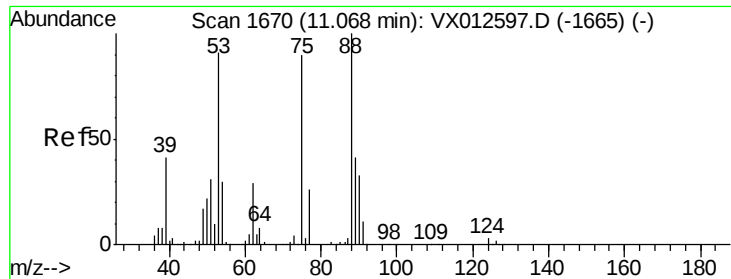
77 1.2 19.7 59.0#



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: 66.733 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012820.D

Acq: 04 Oct 2019 18:31

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP06-20191001

Tgt Ion: 75 Resp: 63265

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

89 0.0 36.3 54.5#

