

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100219\
 Data File : VX012772.D
 Acq On : 02 Oct 2019 20:20
 Operator : JC/SP
 Sample : K5157-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

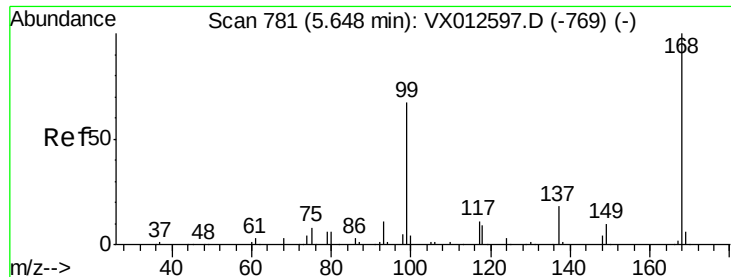
Quant Time: Oct 03 01:34:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	172894	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	296744	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	258865	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	98723	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	121055	48.08	ug/l	0.00
Spiked Amount			Recovery	=	96.16%	
35) Dibromofluoromethane	5.49	113	91023	51.51	ug/l	0.00
Spiked Amount			Recovery	=	103.02%	
50) Toluene-d8	8.71	98	352662	51.82	ug/l	0.00
Spiked Amount			Recovery	=	103.64%	
62) 4-Bromofluorobenzene	11.14	95	118974	44.46	ug/l	0.00
Spiked Amount			Recovery	=	88.92%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	591	0.265	ug/l	98
4) Vinyl Chloride	1.40	62	21892	9.861	ug/l	99
5) Bromomethane	1.64	94	309	0.354	ug/l #	79
6) Chloroethane	1.69	64	602	0.402	ug/l #	45
11) Tert butyl alcohol	3.01	59	3904	6.207	ug/l #	72
12) 1,1-Dichloroethene	2.36	96	458	0.246	ug/l #	67
13) Acrolein	2.28	56	22	10.293	ug/l #	15
16) Acetone	2.44	43	1790	1.342	ug/l	93
21) trans-1,2-Dichloroethene	3.16	96	41264	20.037	ug/l	93
24) 1,1-Dichloroethane	3.70	63	2571	0.664	ug/l #	81
27) cis-1,2-Dichloroethene	4.58	96	48625	20.349	ug/l	84
31) Cyclohexane	5.66	56	3934	1.123	ug/l #	21
36) 1,1-Dichloropropene	5.65	75	14566	5.092	ug/l #	52
38) Carbon Tetrachloride	5.65	117	18552	6.385	ug/l #	16
44) Trichloroethene	7.21	130	21587	10.034	ug/l	99
51) 4-Methyl-2-Pentanone	8.71	43	1720	0.498	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	60337	23.105	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	60337	66.213	ug/l #	8

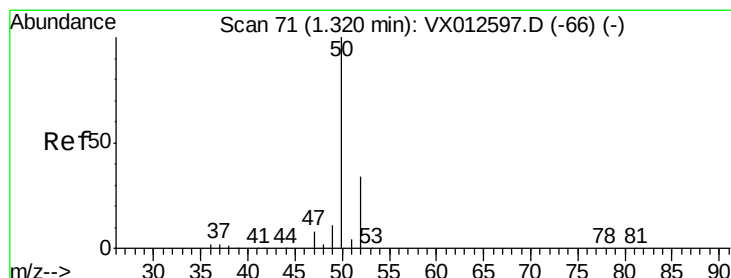
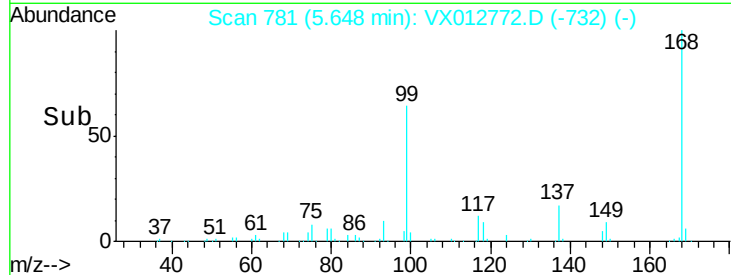
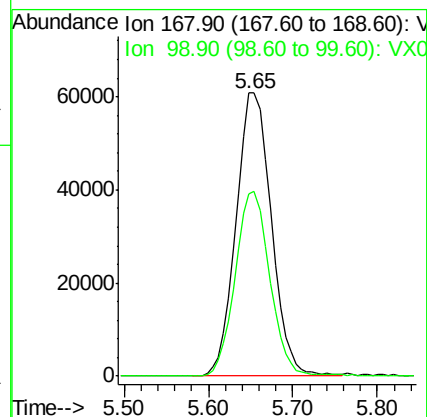
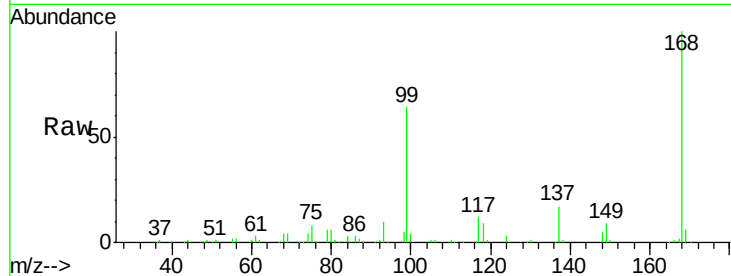
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.00 min
Lab File: VX012772.D
Acq: 02 Oct 2019 20:20

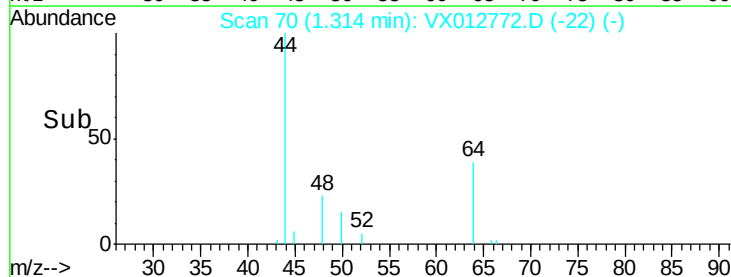
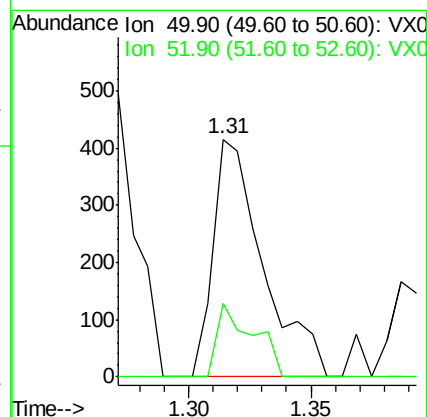
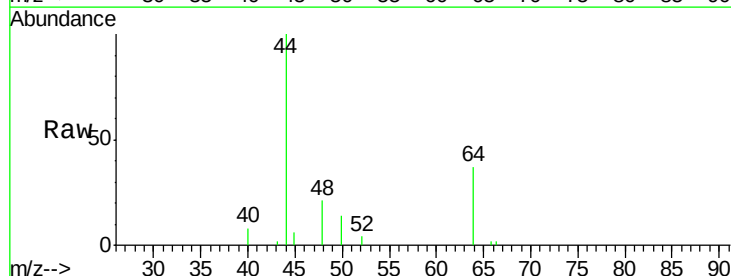
Instrument :
MSVOA_X
ClientSampleId :

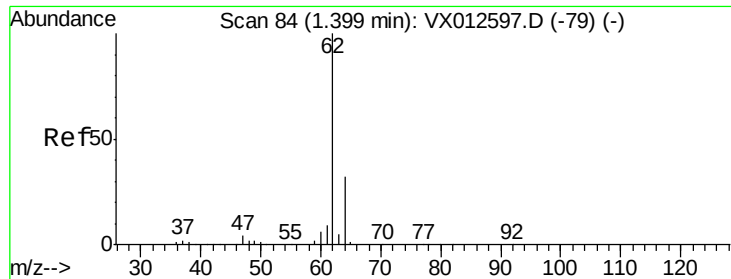
Tot Ion:168 Resp: 172894
Ion Ratio Lower Upper
168 100
99 64.2 51.4 77.2



#3
Chloromethane
Concen: 0.265 ug/l
RT: 1.31 min Scan# 70
Delta R.T. -0.01 min
Lab File: VX012772.D
Acq: 02 Oct 2019 20:20

Tgt Ion: 50 Resp: 591
Ion Ratio Lower Upper
50 100
52 30.8 25.7 38.5





#4

Vinyl Chloride

Concen: 9.861 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX012772.D

Acq: 02 Oct 2019 20:20

Instrument :

MSVOA_X

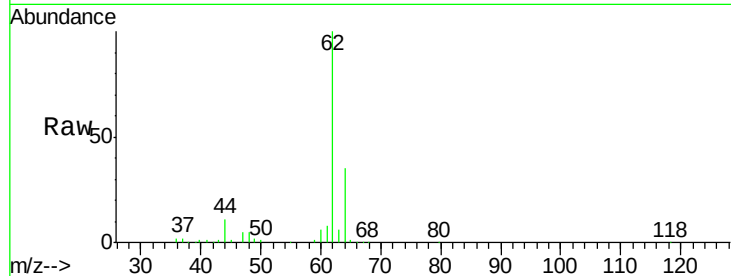
ClientSampleId :

Tot Ion: 62 Resp: 21892

Ion Ratio Lower Upper

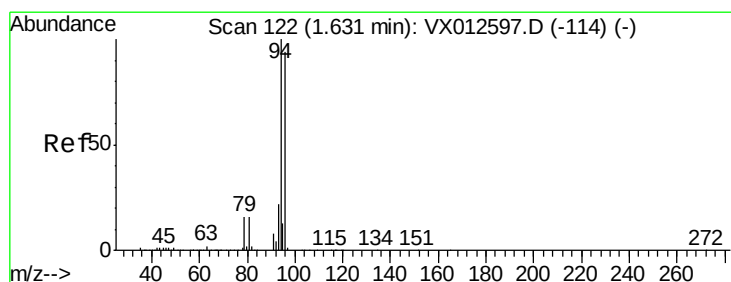
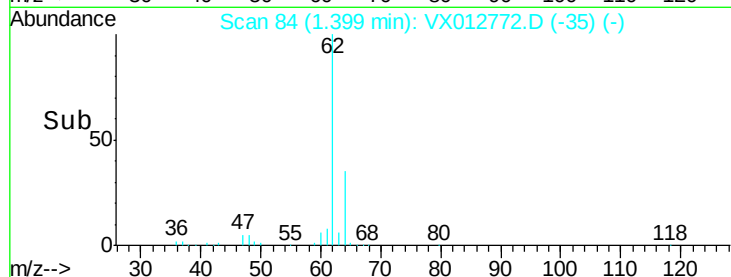
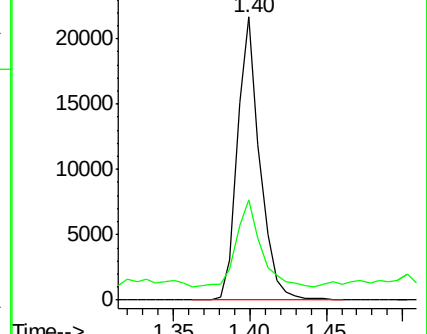
62 100

64 30.5 24.2 36.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.354 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX012772.D

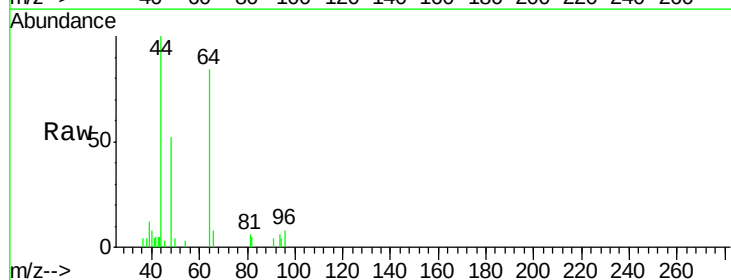
Acq: 02 Oct 2019 20:20

Tgt Ion: 94 Resp: 309

Ion Ratio Lower Upper

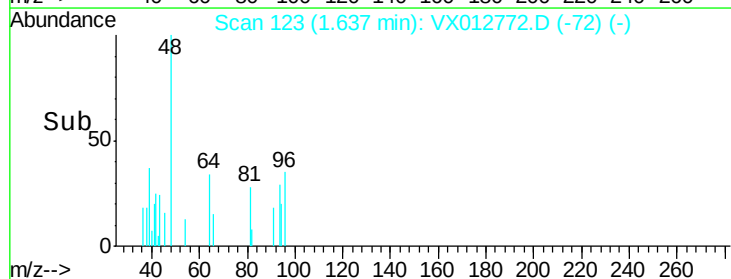
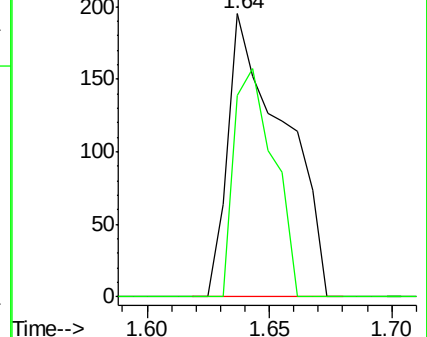
94 100

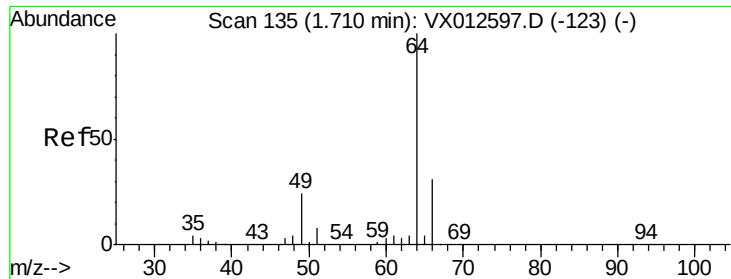
96 71.3 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.402 ug/l

RT: 1.69 min Scan# 131

Delta R.T. -0.02 min

Lab File: VX012772.D

Acq: 02 Oct 2019 20:20

Instrument :

MSVOA_X

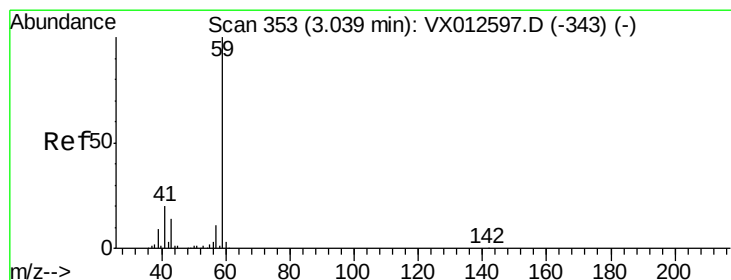
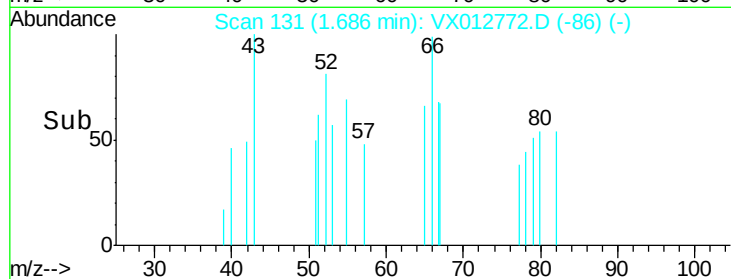
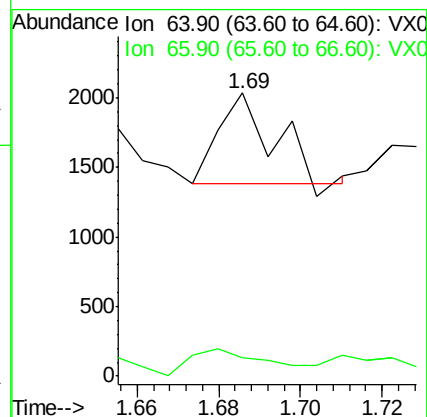
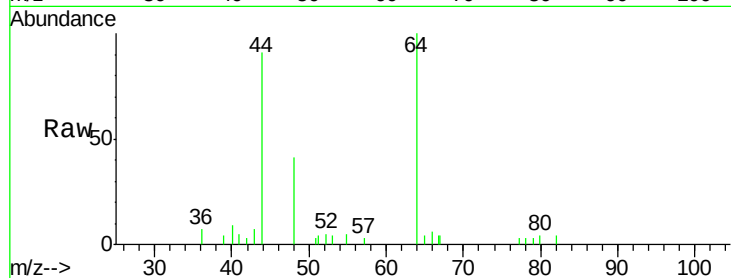
ClientSampled :

Tot Ion: 64 Resp: 602

Ion Ratio Lower Upper

64 100

66 0.0 24.0 36.0#



#11

Tert butyl alcohol

Concen: 6.207 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.03 min

Lab File: VX012772.D

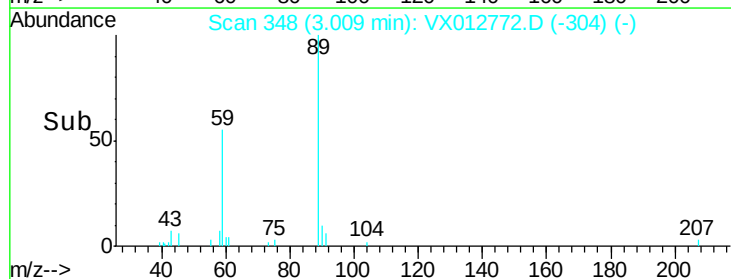
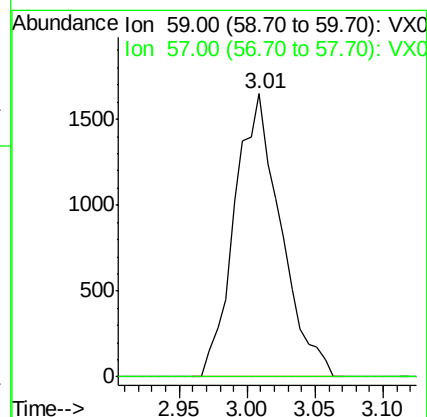
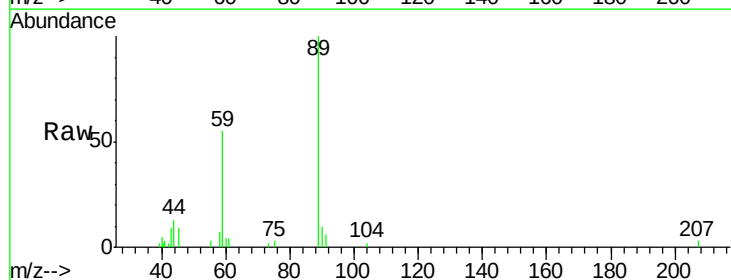
Acq: 02 Oct 2019 20:20

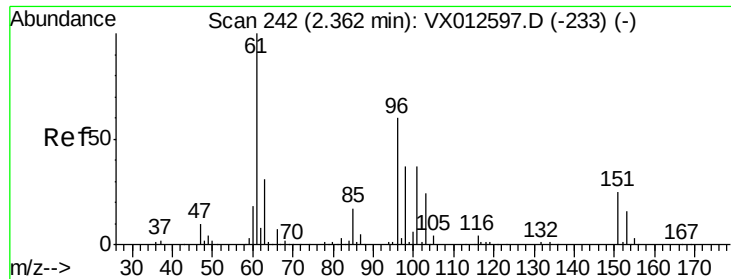
Tgt Ion: 59 Resp: 3904

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#

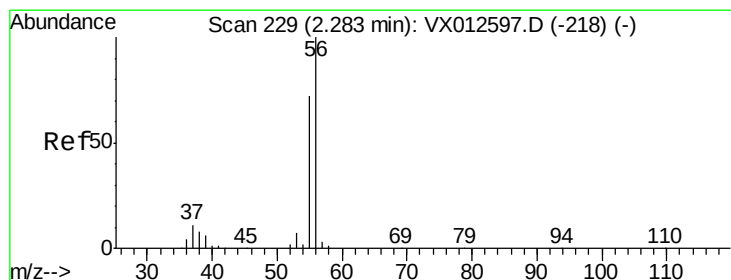
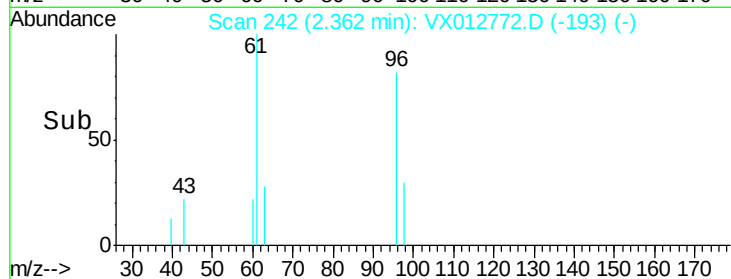
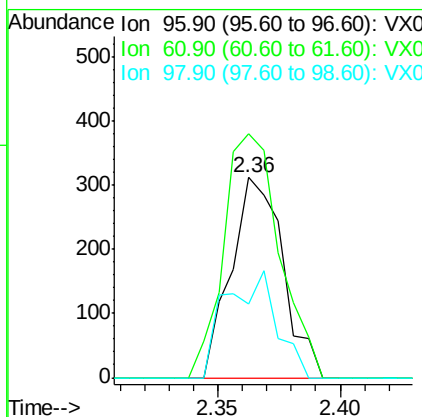
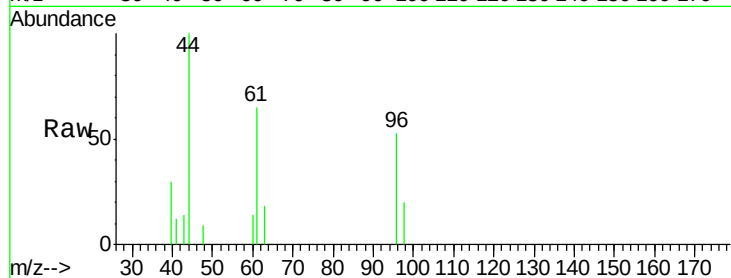




#12
 1,1-Dichloroethene
 Concen: 0.246 ug/l
 RT: 2.36 min Scan# 242
 Delta R.T. 0.00 min
 Lab File: VX012772.D
 Acq: 02 Oct 2019 20:20

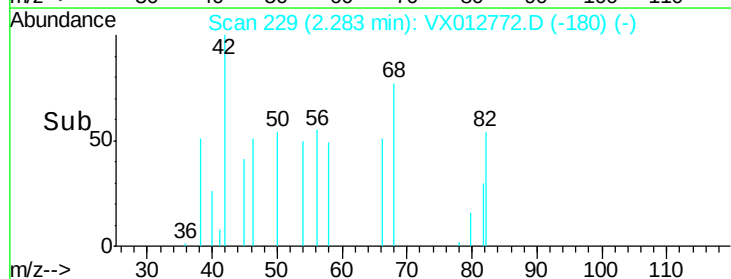
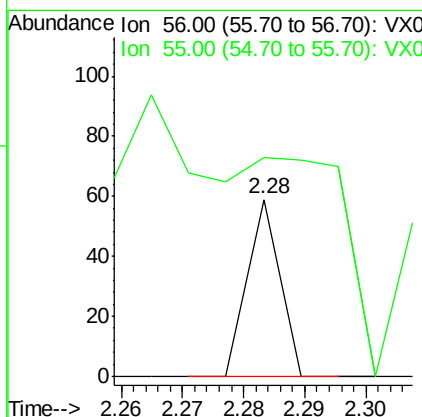
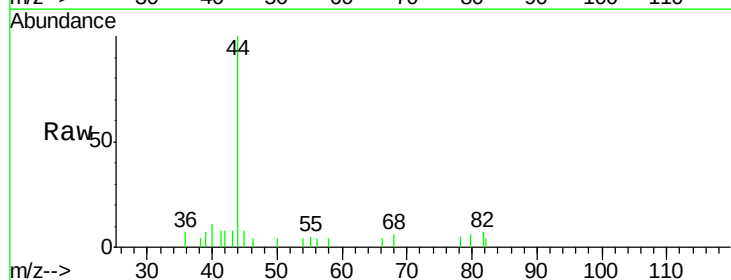
Instrument :
 MSVOA_X
 ClientSampleId :

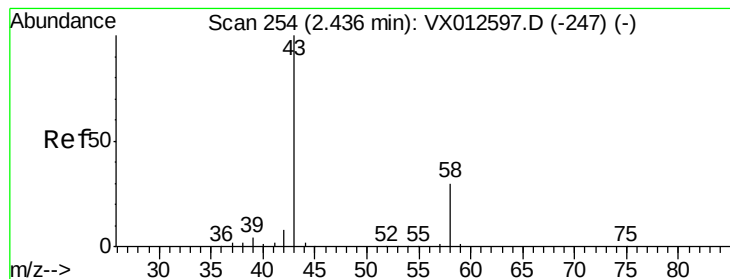
Tot Ion: 96 Resp: 458
 Ion Ratio Lower Upper
 96 100
 61 121.9 133.8 200.6#
 98 37.0 49.9 74.9#



#13
 Acrolein
 Concen: 10.293 ug/l
 RT: 2.28 min Scan# 229
 Delta R.T. 0.00 min
 Lab File: VX012772.D
 Acq: 02 Oct 2019 20:20

Tgt Ion: 56 Resp: 22
 Ion Ratio Lower Upper
 56 100
 55 0.0 55.8 83.8#





#16

Acetone

Concen: 1.342 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012772.D

Acq: 02 Oct 2019 20:20

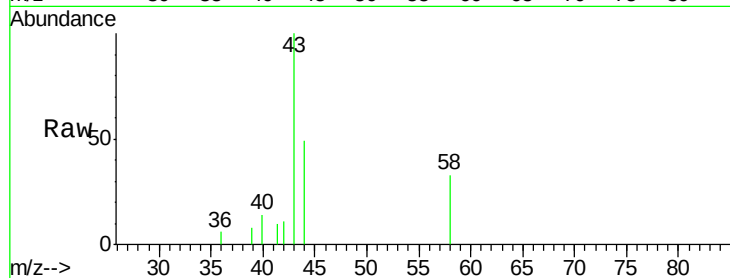
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 1790

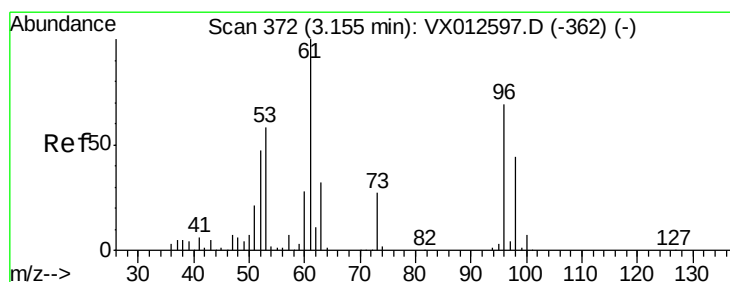
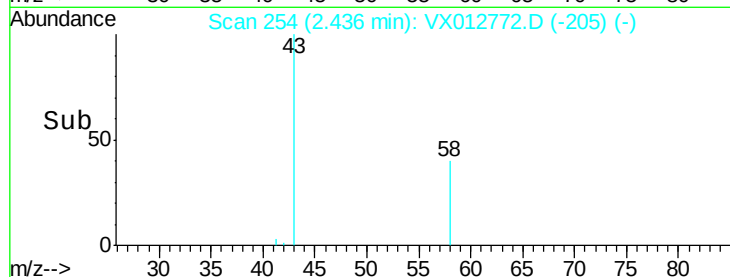
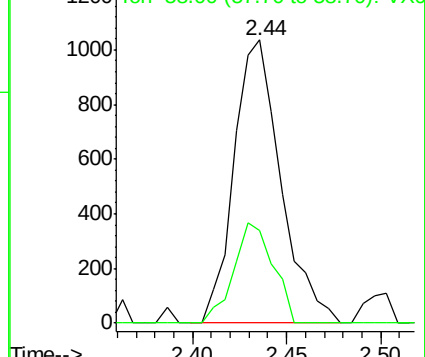
Ion Ratio Lower Upper

43 100

58 32.8 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0



#21

trans-1,2-Dichloroethene

Concen: 20.037 ug/l

RT: 3.16 min Scan# 372

Delta R.T. 0.01 min

Lab File: VX012772.D

Acq: 02 Oct 2019 20:20

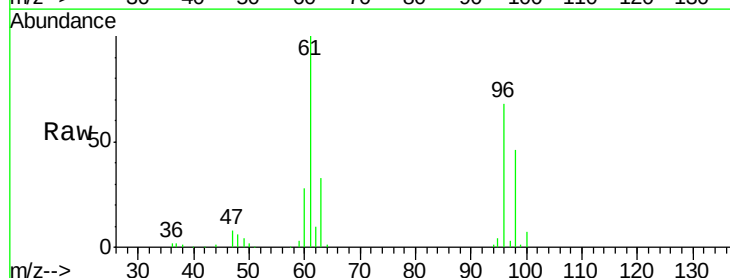
Tgt Ion: 96 Resp: 41264

Ion Ratio Lower Upper

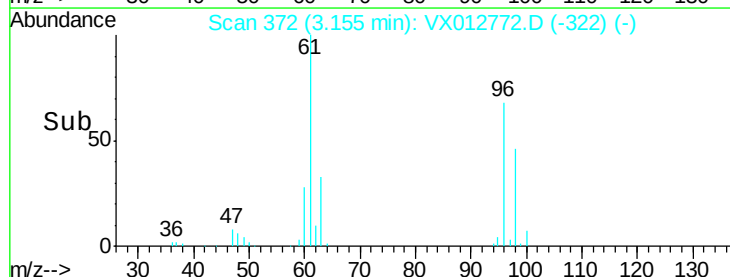
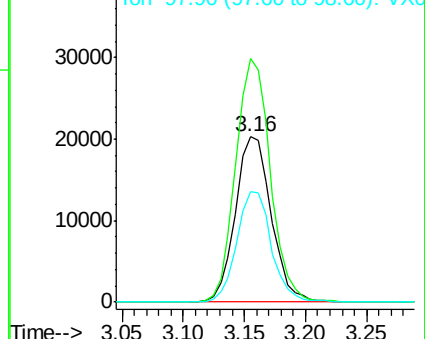
96 100

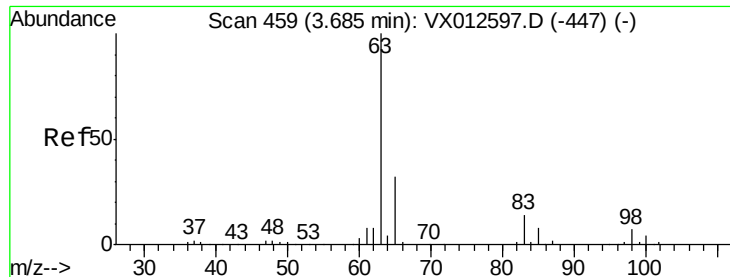
61 147.1 112.0 168.0

98 67.1 47.8 71.8



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0





#24

1,1-Dichloroethane

Concen: 0.664 ug/l

RT: 3.70 min Scan# 461

Delta R.T. 0.01 min

Lab File: VX012772.D

Acq: 02 Oct 2019 20:20

Instrument :

MSVOA_X

ClientSampled :

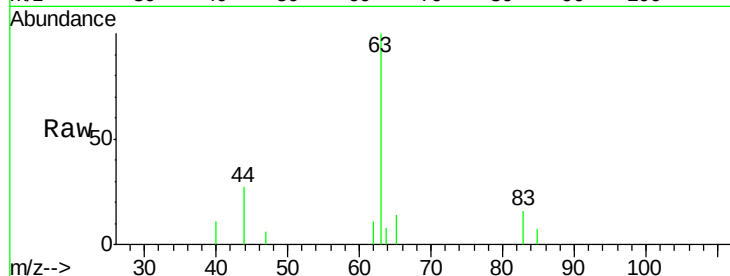
Tot Ion: 63 Resp: 2571

Ion Ratio Lower Upper

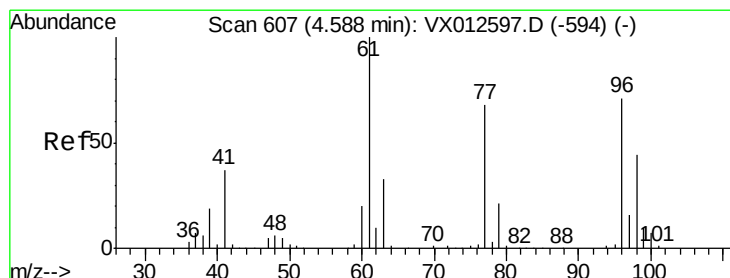
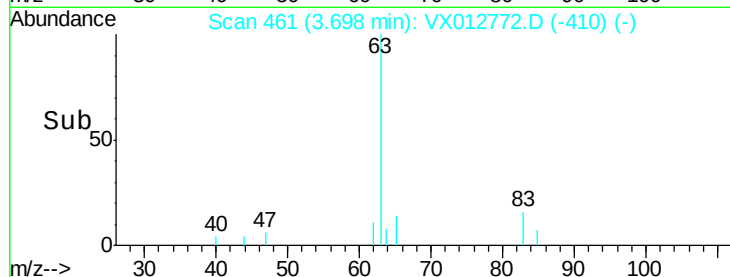
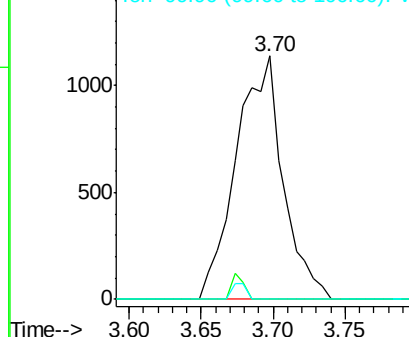
63 100

98 0.0 3.9 11.7#

100 0.0 2.3 6.9#



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 97.90 (97.60 to 98.60): VX0
Ion 99.90 (99.60 to 100.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 20.349 ug/l

RT: 4.58 min Scan# 606

Delta R.T. 0.00 min

Lab File: VX012772.D

Acq: 02 Oct 2019 20:20

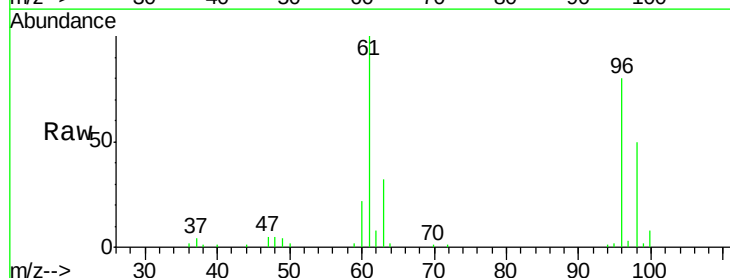
Tgt Ion: 96 Resp: 48625

Ion Ratio Lower Upper

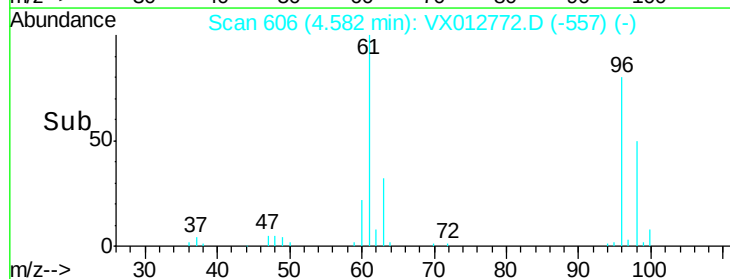
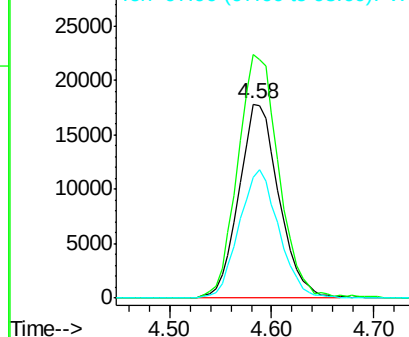
96 100

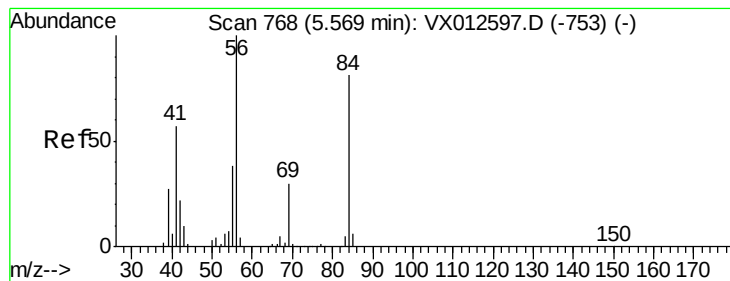
61 129.6 0.0 319.4

98 65.8 0.0 130.6



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0





#31

Cyclohexane

Concen: 1.123 ug/l

RT: 5.66 min Scan# 783

Delta R.T. 0.09 min

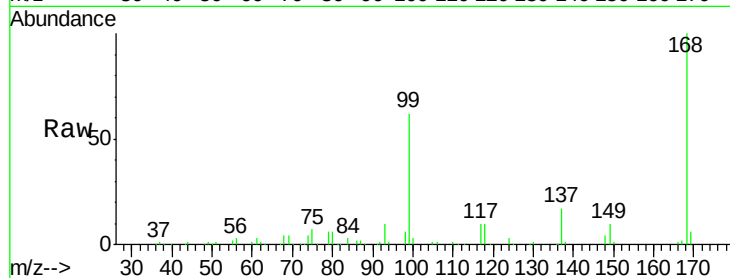
Lab File: VX012772.D

Acq: 02 Oct 2019 20:20

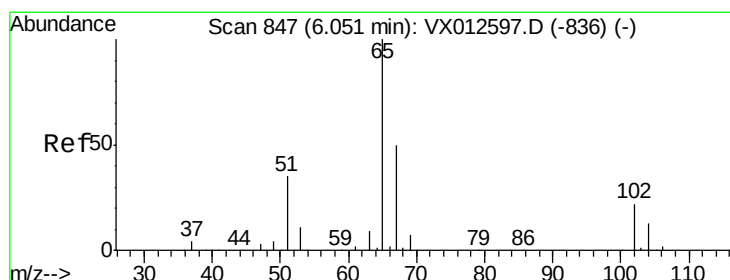
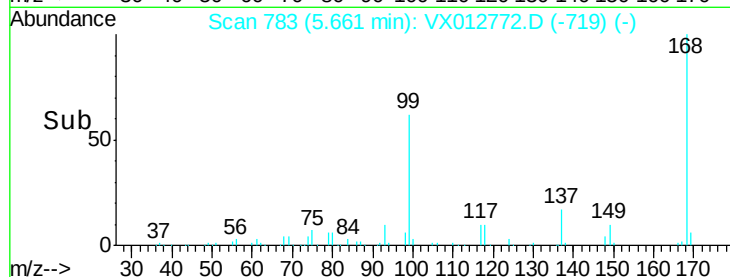
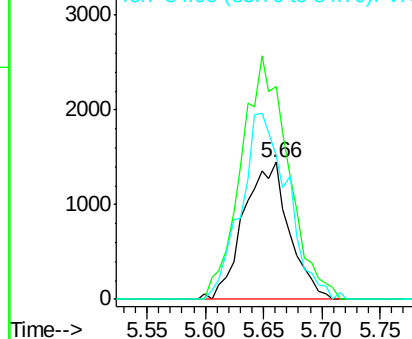
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 3934

Ion	Ratio	Lower	Upper
56	100		
69	155.1	25.0	37.6#
84	105.0	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: 48.082 ug/l

RT: 6.06 min Scan# 848

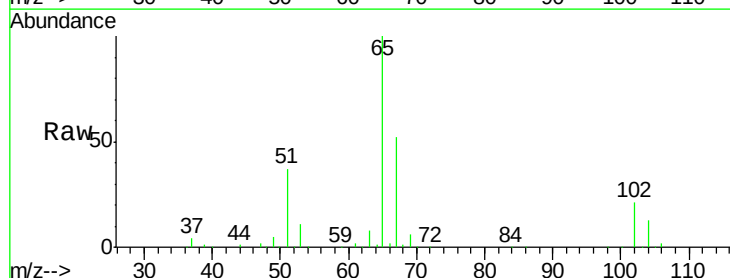
Delta R.T. 0.01 min

Lab File: VX012772.D

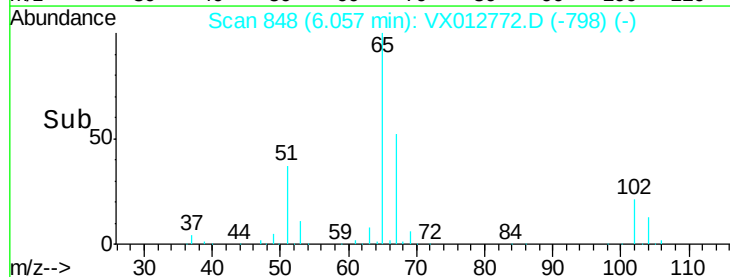
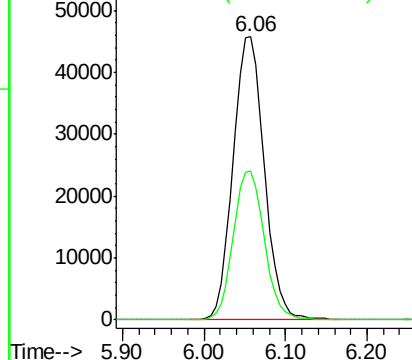
Acq: 02 Oct 2019 20:20

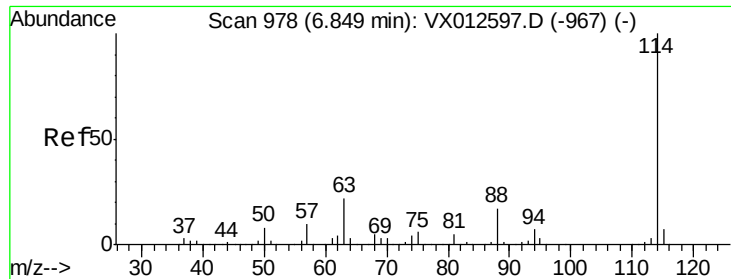
Tgt Ion: 65 Resp: 121055

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

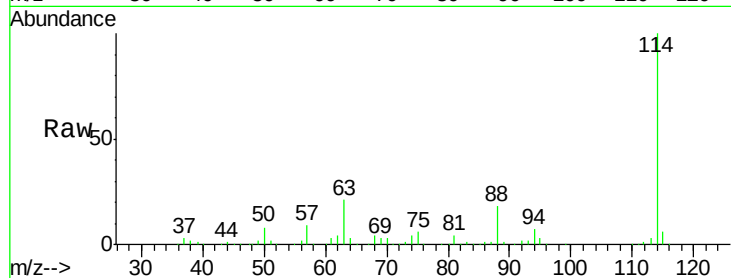




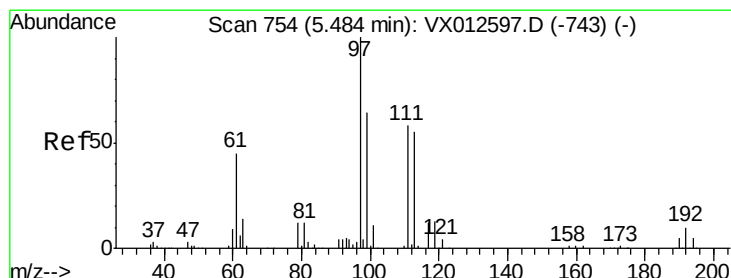
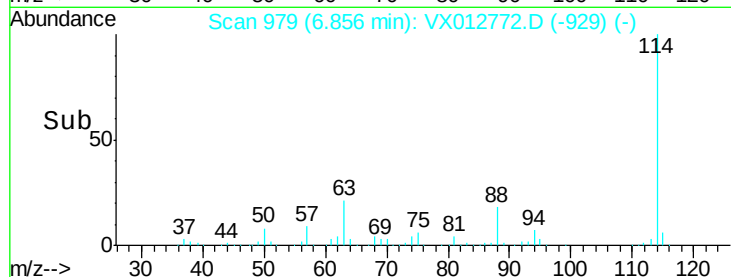
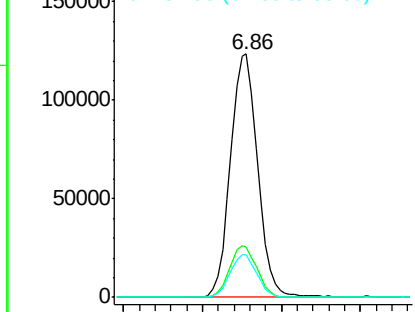
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 979
 Delta R.T. 0.01 min
 Lab File: VX012772.D
 Acq: 02 Oct 2019 20:20

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:114 Resp: 296744
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 43.2
 88 17.5 0.0 33.2

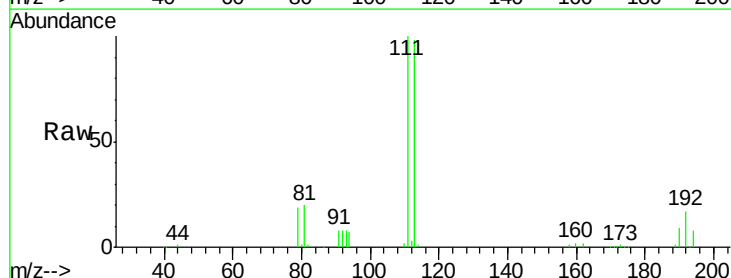


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX
 Ion 87.90 (87.60 to 88.60): VX

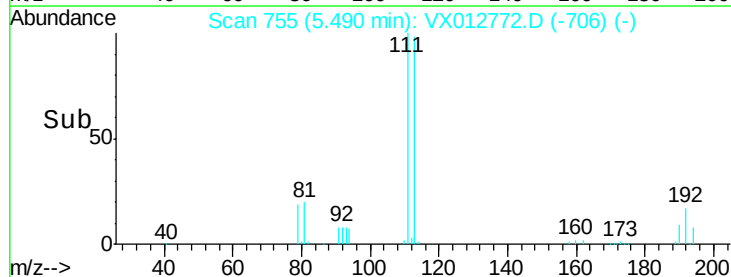
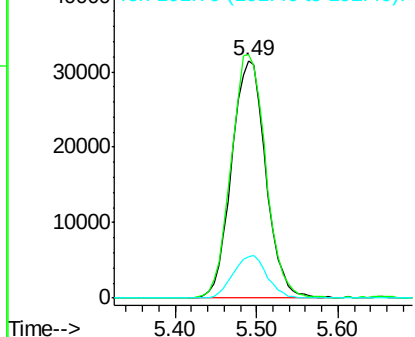


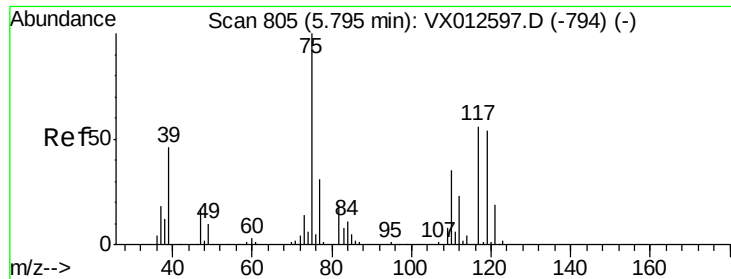
#35
 Dibromofluoromethane
 Concen: 51.506 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX012772.D
 Acq: 02 Oct 2019 20:20

Tgt Ion:113 Resp: 91023
 Ion Ratio Lower Upper
 113 100
 111 103.8 83.4 125.2
 192 17.9 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: 5.092 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX012772.D

Acq: 02 Oct 2019 20:20

Instrument :

MSVOA_X

ClientSampleId :

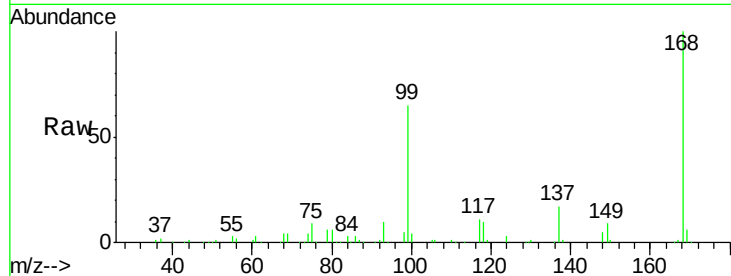
Tot Ion: 75 Resp: 14566

Ion Ratio Lower Upper

75 100

110 9.7 16.7 50.0#

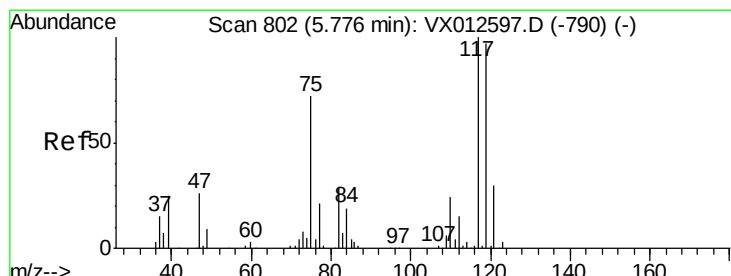
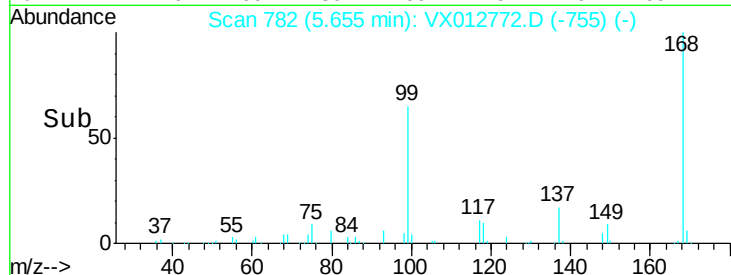
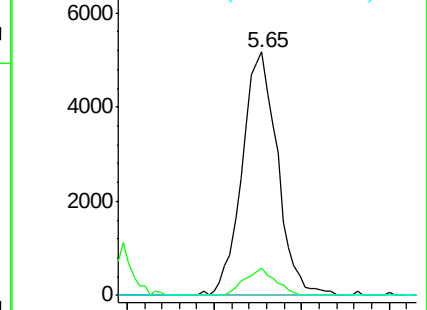
77 0.0 24.2 36.2#



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: 6.385 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX012772.D

Acq: 02 Oct 2019 20:20

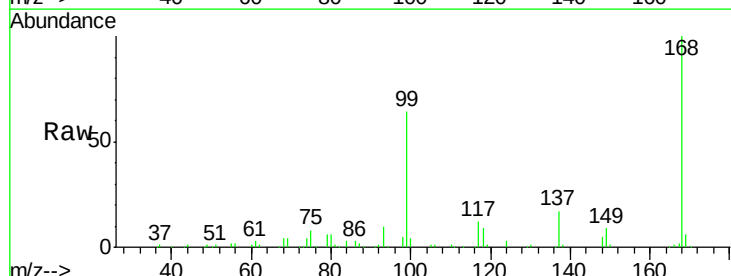
Tgt Ion: 117 Resp: 18552

Ion Ratio Lower Upper

117 100

119 4.3 75.7 113.5#

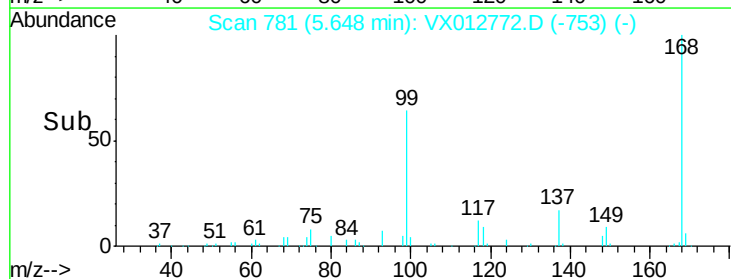
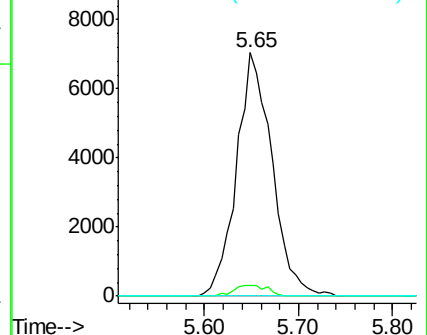
121 0.0 24.2 36.4#

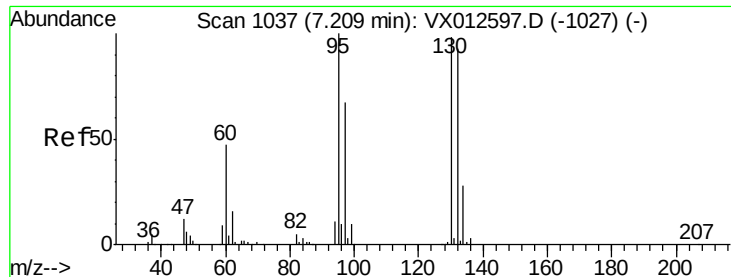


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 10.034 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX012772.D

Acq: 02 Oct 2019 20:20

Instrument :

MSVOA_X

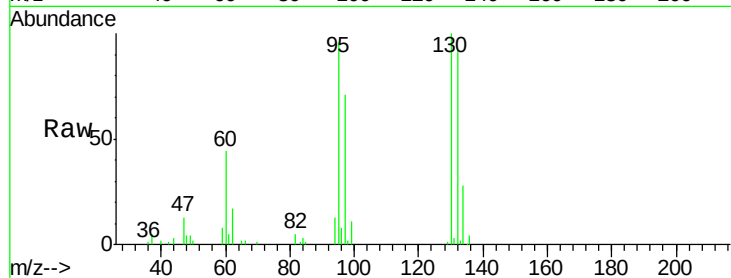
ClientSampleId :

Tot Ion:130 Resp: 21587

Ion Ratio Lower Upper

130 100

95 95.5 0.0 193.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

12000

10000

8000

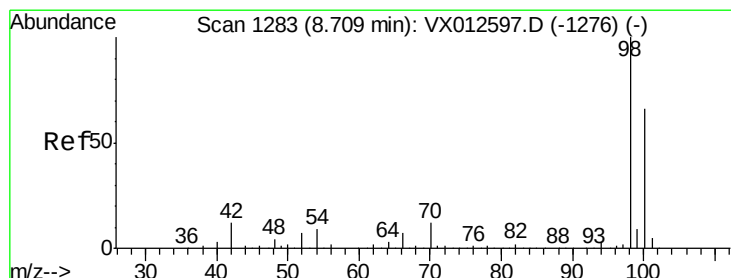
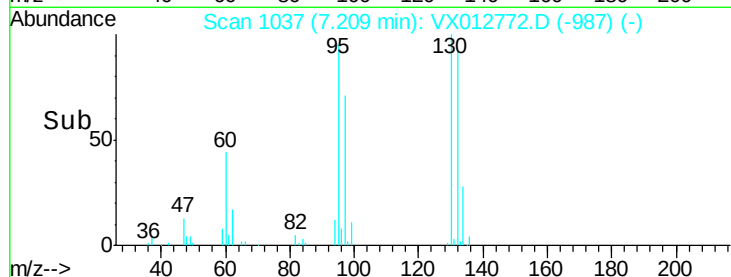
6000

4000

2000

0

Time-->



#50

Toluene-d8

Concen: 51.818 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012772.D

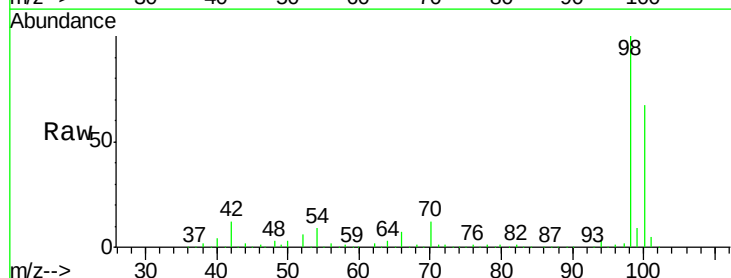
Acq: 02 Oct 2019 20:20

Tgt Ion: 98 Resp: 352662

Ion Ratio Lower Upper

98 100

100 67.9 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

250000

200000

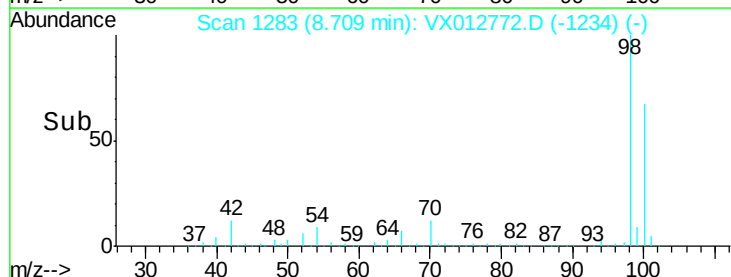
150000

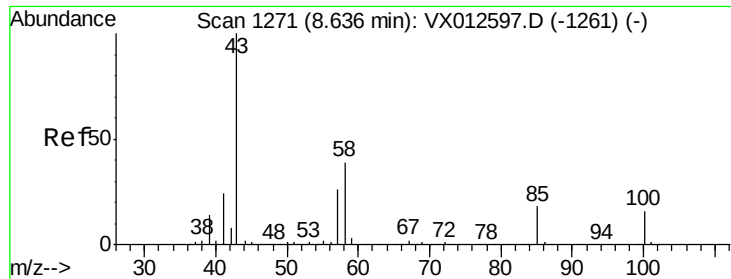
100000

50000

0

Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.498 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VX012772.D

Acq: 02 Oct 2019 20:20

Instrument :

MSVOA_X

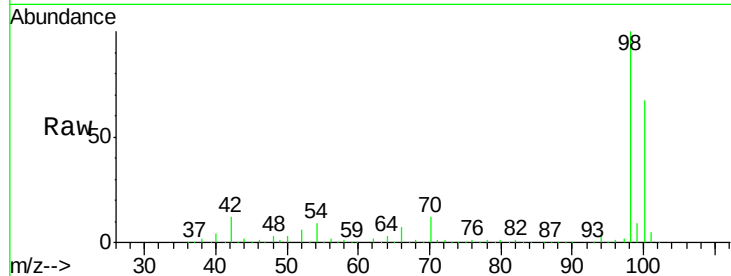
ClientSampled :

Tot Ion: 43 Resp: 1720

Ion Ratio Lower Upper

43 100

58 178.3 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2000

1500

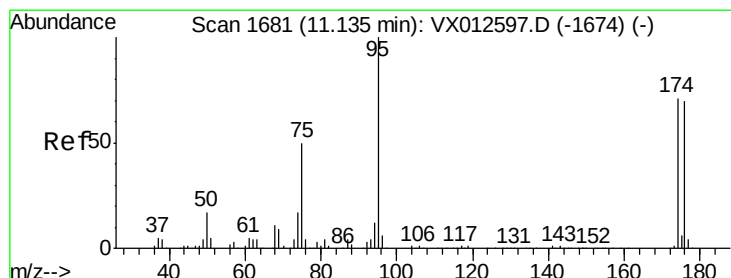
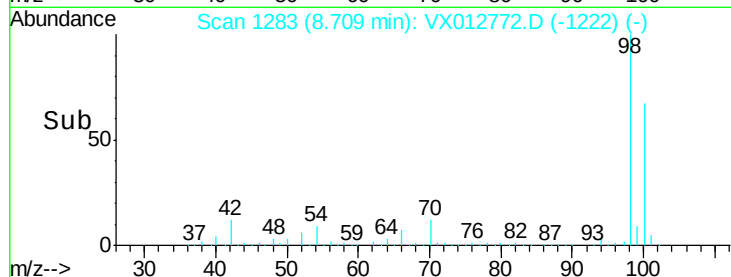
1000

500

0

8.65 8.70 8.75 8.80

Time-->



#62

4-Bromofluorobenzene

Concen: 44.459 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012772.D

Acq: 02 Oct 2019 20:20

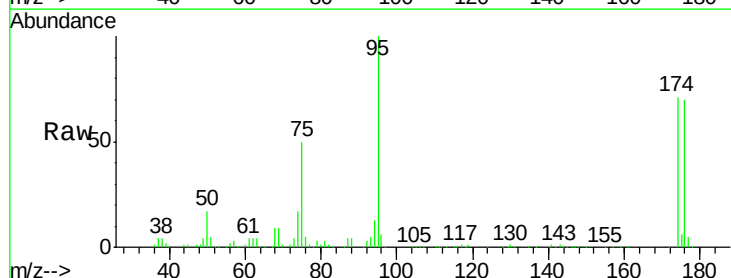
Tgt Ion: 95 Resp: 118974

Ion Ratio Lower Upper

95 100

174 70.2 0.0 140.0

176 67.2 0.0 135.4



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

120000

100000

80000

60000

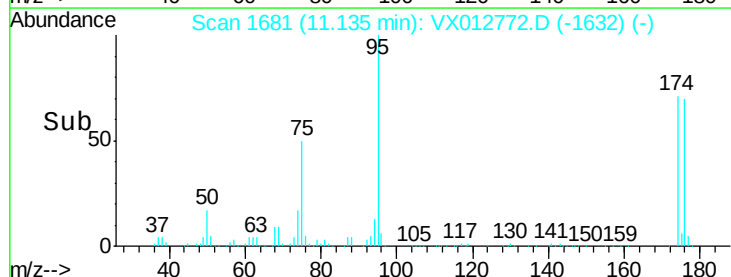
40000

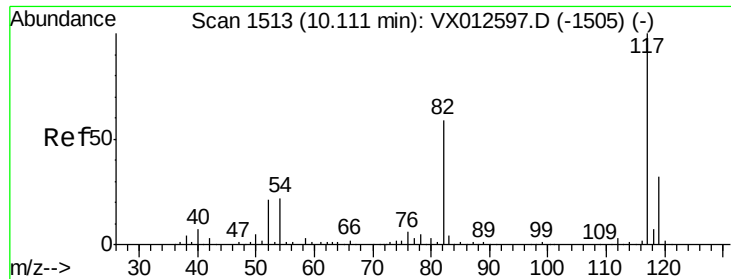
20000

0

11.05 11.10 11.15 11.20

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012772.D

Acq: 02 Oct 2019 20:20

Instrument :

MSVOA_X

ClientSampled :

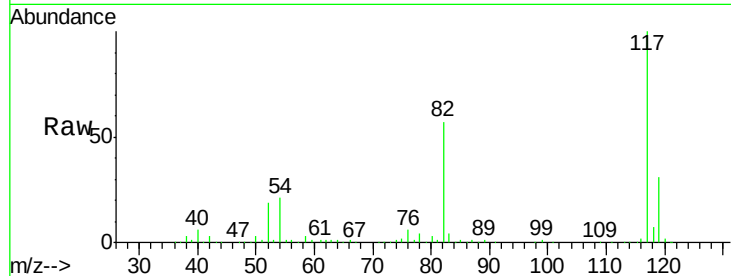
Tot Ion:117 Resp: 258865

Ion Ratio Lower Upper

117 100

82 57.1 45.9 68.9

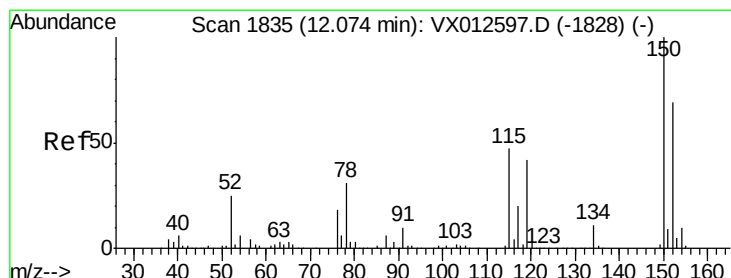
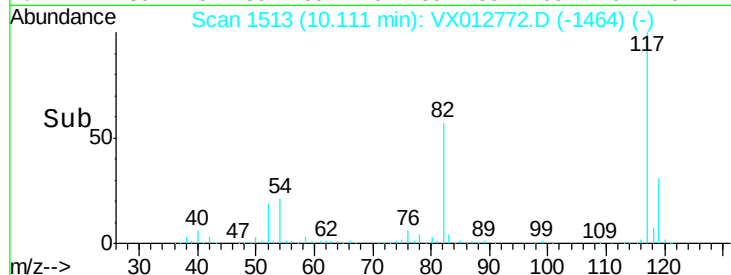
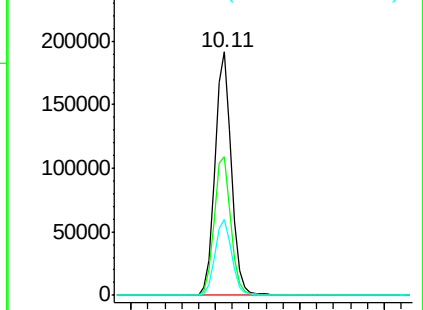
119 31.4 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012772.D

Acq: 02 Oct 2019 20:20

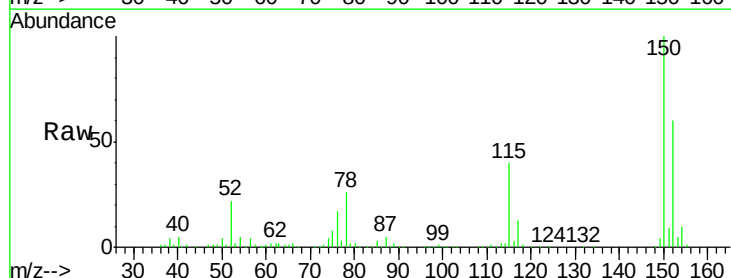
Tgt Ion:152 Resp: 98723

Ion Ratio Lower Upper

152 100

115 63.4 44.1 132.3

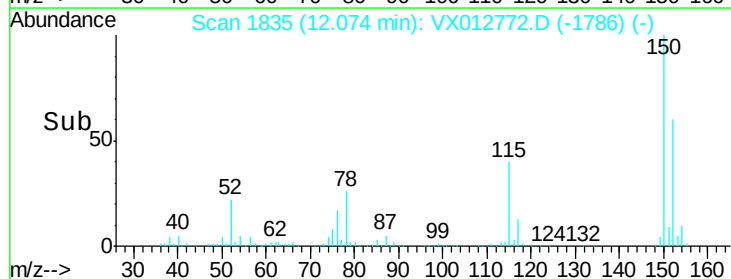
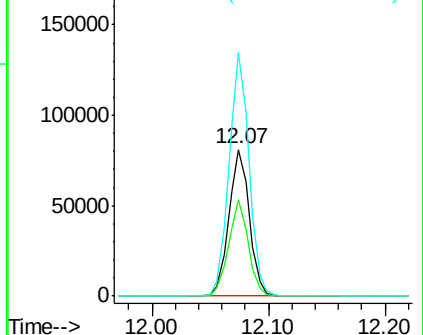
150 162.8 0.0 343.8

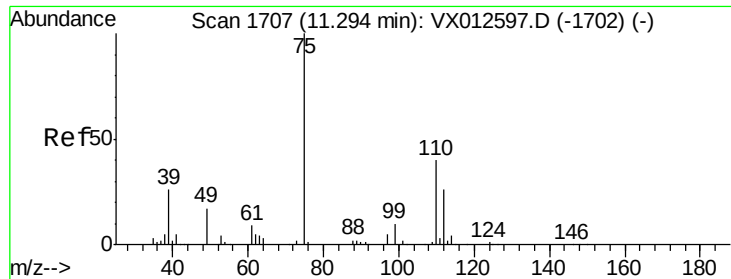


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.105 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012772.D

Acq: 02 Oct 2019 20:20

Instrument :

MSVOA_X

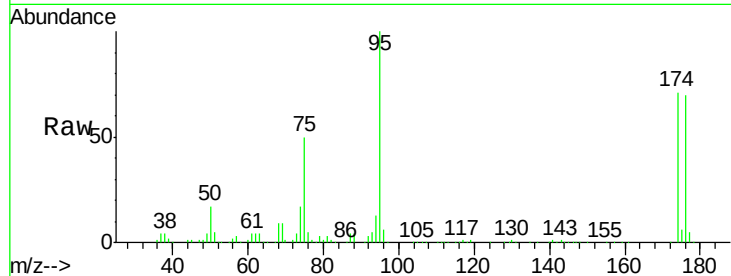
ClientSampled :

Tot Ion: 75 Resp: 60337

Ion Ratio Lower Upper

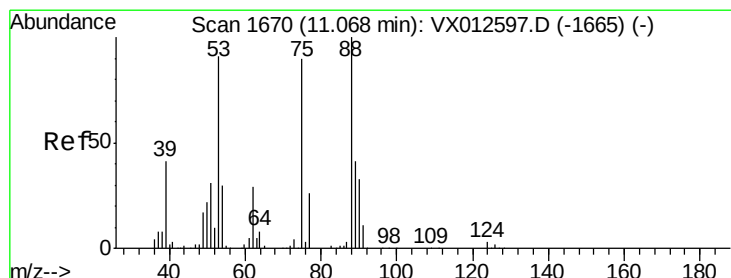
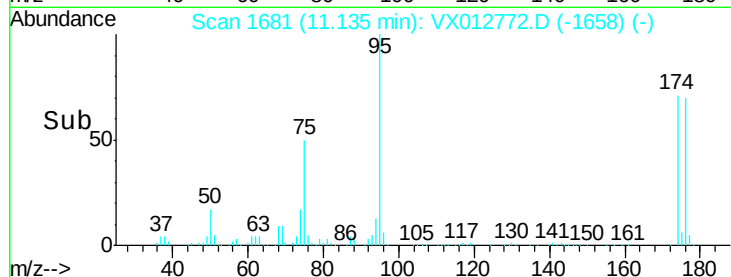
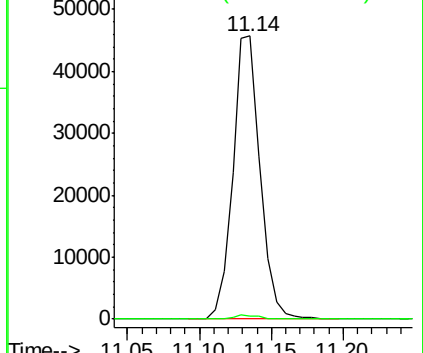
75 100

77 1.3 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: 66.213 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012772.D

Acq: 02 Oct 2019 20:20

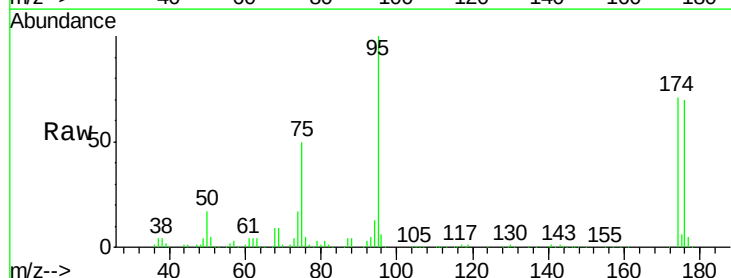
Tgt Ion: 75 Resp: 60337

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

89 0.1 36.3 54.5#



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

