

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100719\
 Data File : VX012846.D
 Acq On : 07 Oct 2019 18:20
 Operator : JC/SP
 Sample : K5154-19
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 08 11:13:25 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	185304	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	314350	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	269265	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	111281	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	122583	45.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.86%	
35) Dibromofluoromethane	5.49	113	94162	50.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.60%	
50) Toluene-d8	8.71	98	369478	51.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.50%	
62) 4-Bromofluorobenzene	11.14	95	133363	47.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.08%	

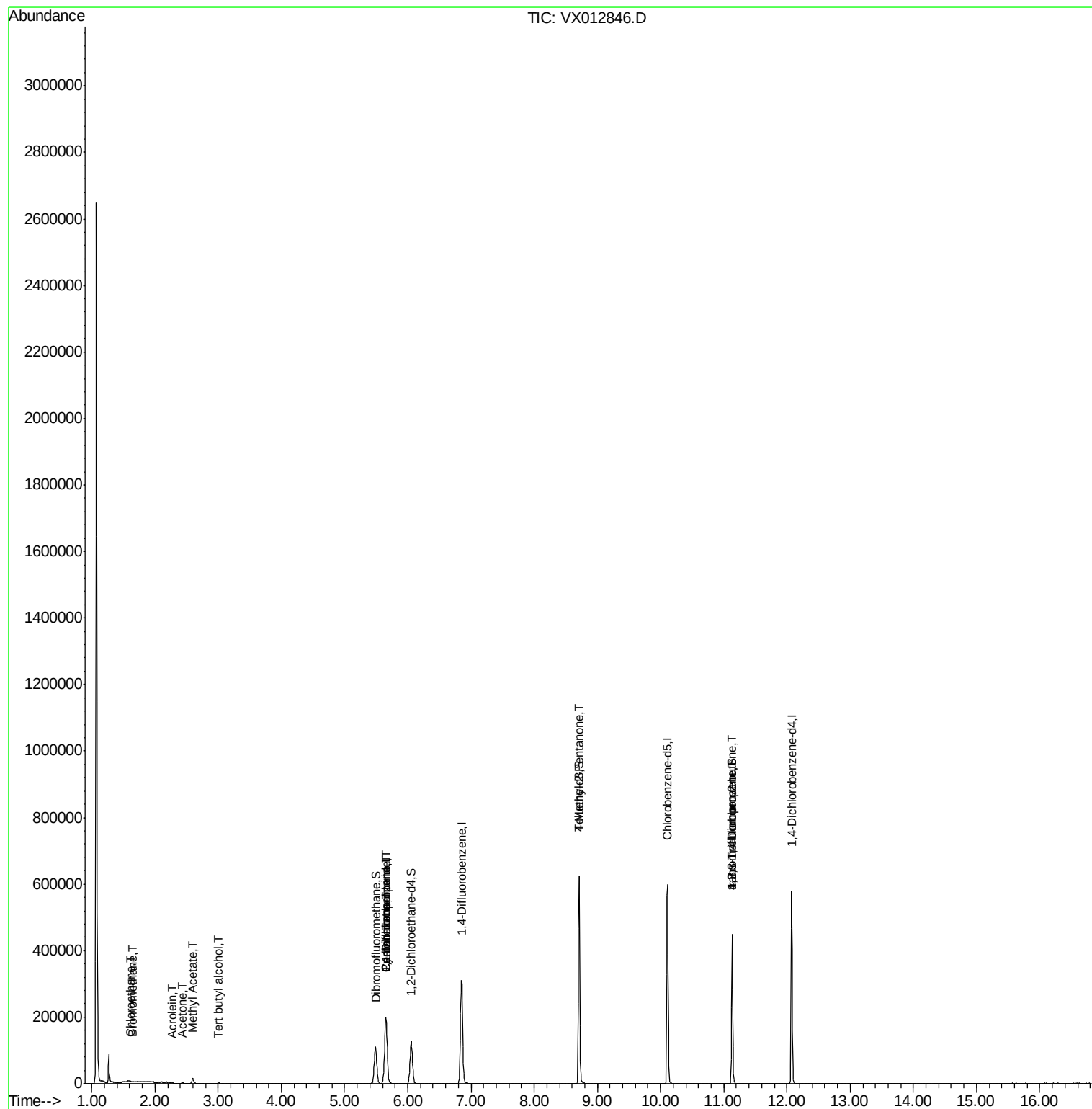
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	202	0.216	ug/l #	70
6) Chloroethane	1.61	64	1096	0.683	ug/l #	54
11) Tert butyl alcohol	3.00	59	1134	1.682	ug/l #	72
13) Acrolein	2.28	56	50	10.361	ug/l #	1
16) Acetone	2.43	43	3573	2.500	ug/l #	89
18) Methyl Acetate	2.60	43	4699	1.396	ug/l #	54
31) Cyclohexane	5.65	56	4183	1.114	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	15106	4.985	ug/l #	51
38) Carbon Tetrachloride	5.65	117	19411	6.306	ug/l #	17
51) 4-Methyl-2-Pentanone	8.71	43	1832	0.501	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	65650	22.302	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	65650	63.913	ug/l #	8

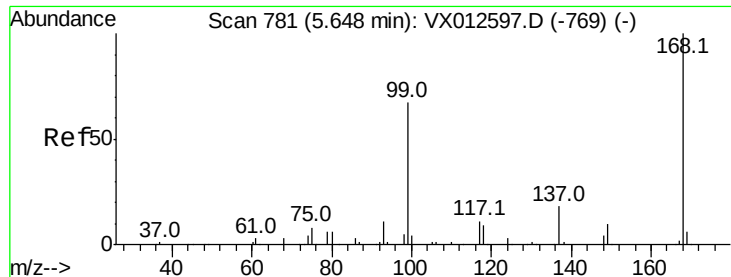
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012846.D

Acq: 07 Oct 2019 18:20

Instrument :

MSVOA_X

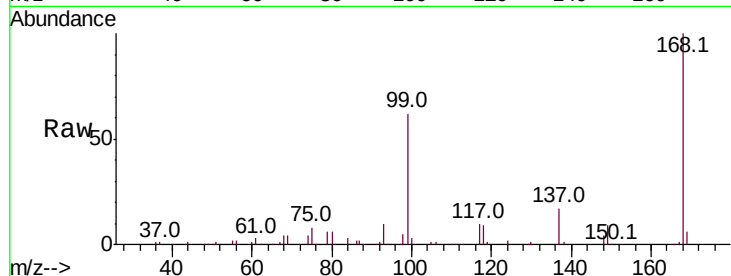
ClientSampleId :

Tot Ion:168 Resp: 185304

Ion Ratio Lower Upper

168 100

99 61.9 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

60000

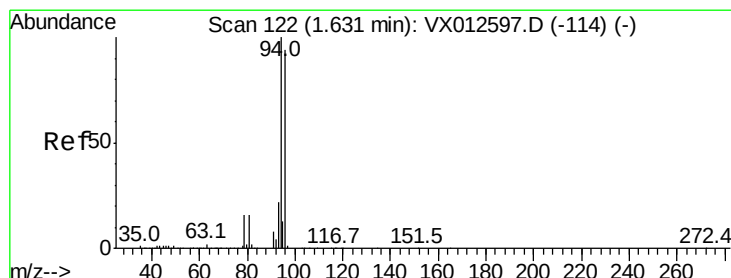
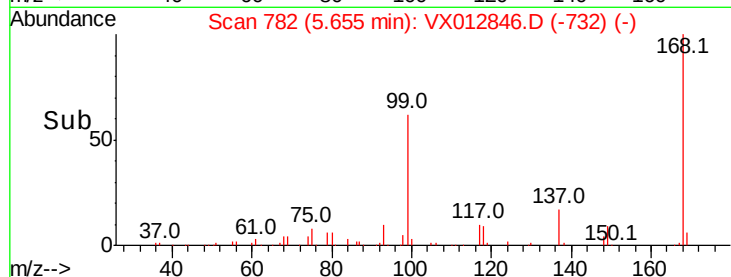
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.216 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX012846.D

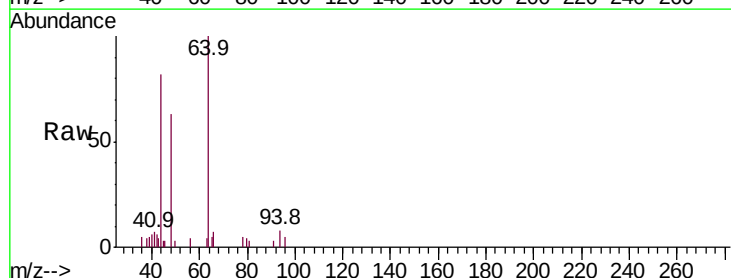
Acq: 07 Oct 2019 18:20

Tgt Ion: 94 Resp: 202

Ion Ratio Lower Upper

94 100

96 62.2 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

200

150

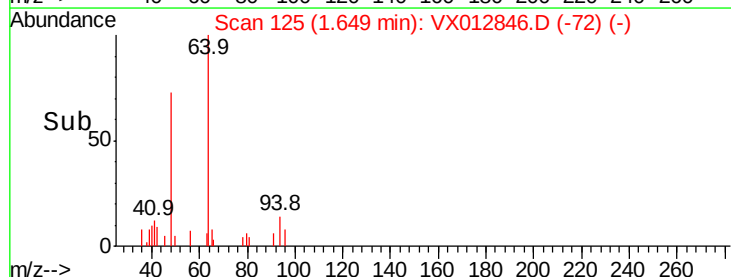
100

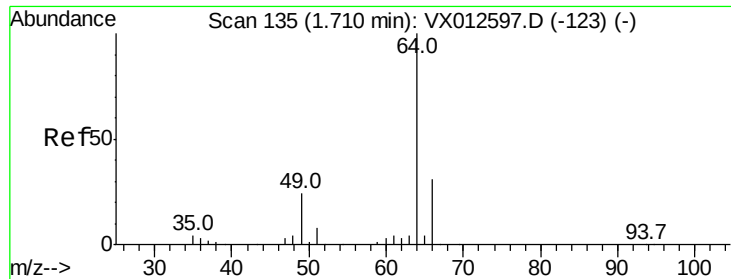
50

0

Time-->

1.62 1.64 1.66 1.68





#6

Chloroethane

Concen: 0.683 ug/l

RT: 1.61 min Scan# 118

Delta R.T. -0.10 min

Lab File: VX012846.D

Acq: 07 Oct 2019 18:20

Instrument :

MSVOA_X

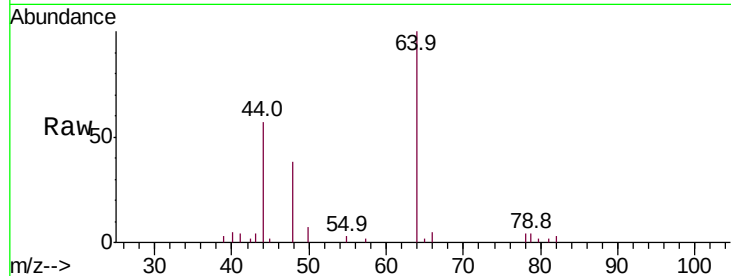
ClientSampled :

Tot Ion: 64 Resp: 1096

Ion Ratio Lower Upper

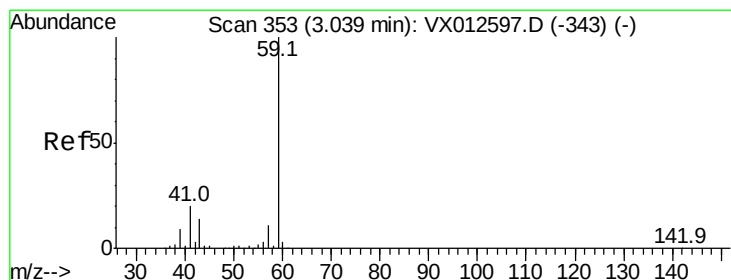
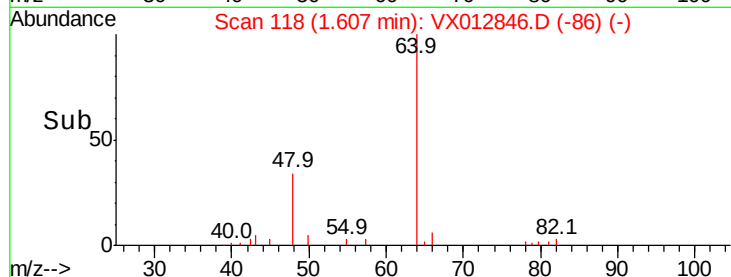
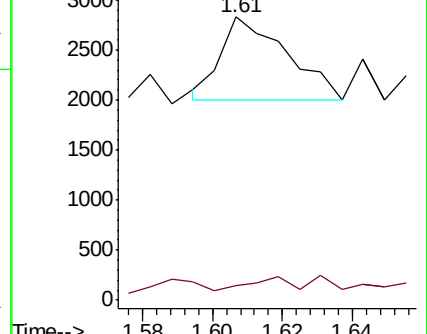
64 100

66 4.8 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: 1.682 ug/l

RT: 3.00 min Scan# 347

Delta R.T. -0.04 min

Lab File: VX012846.D

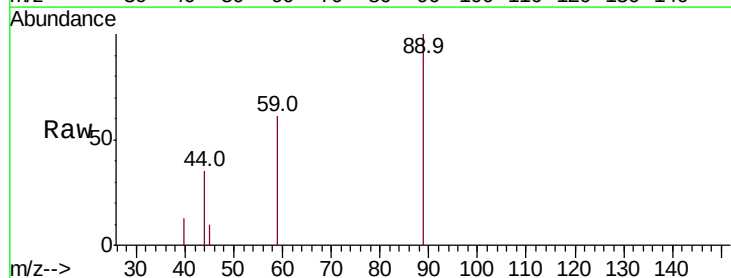
Acq: 07 Oct 2019 18:20

Tgt Ion: 59 Resp: 1134

Ion Ratio Lower Upper

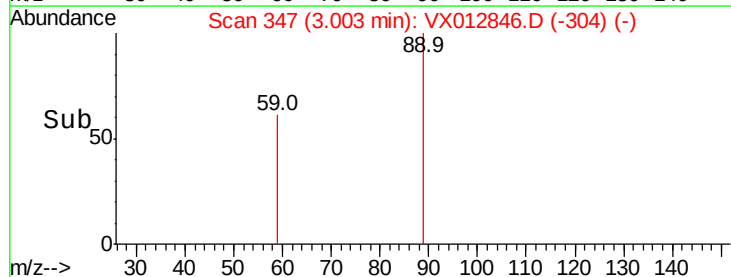
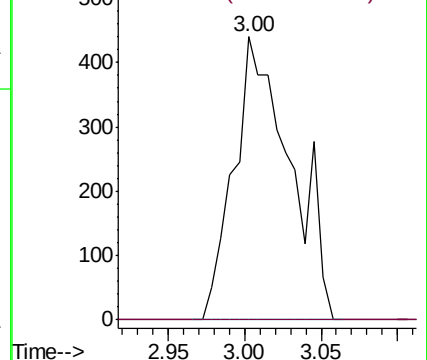
59 100

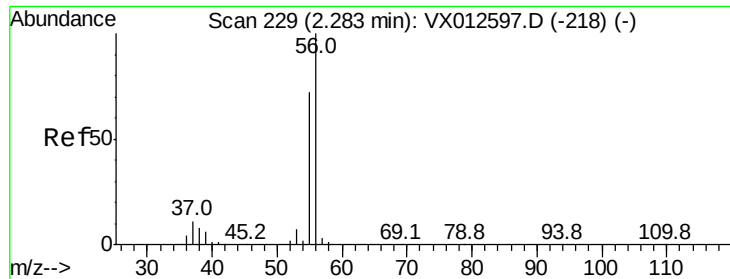
57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 10.361 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX012846.D

Acq: 07 Oct 2019 18:20

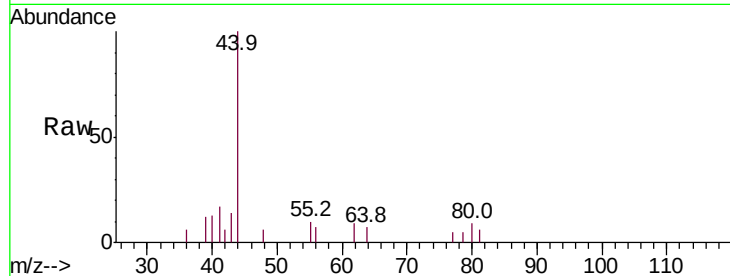
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 50

Ion Ratio Lower Upper

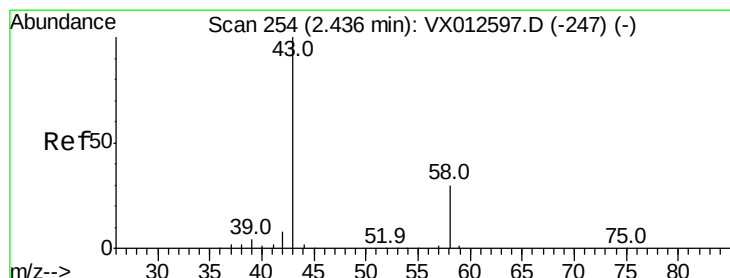
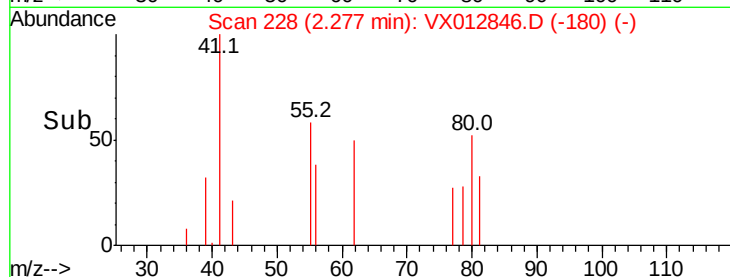
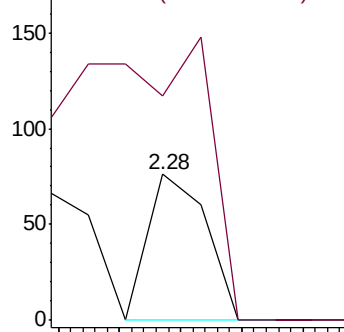
56 100

55 578.0 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 2.500 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012846.D

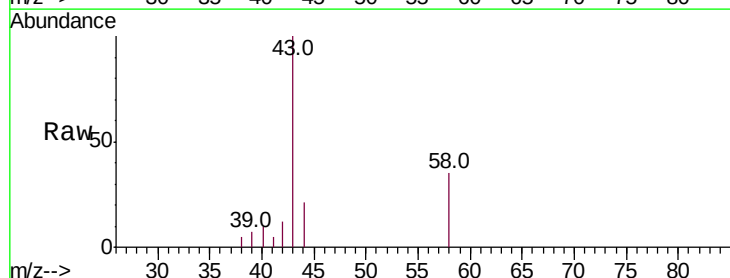
Acq: 07 Oct 2019 18:20

Tgt Ion: 43 Resp: 3573

Ion Ratio Lower Upper

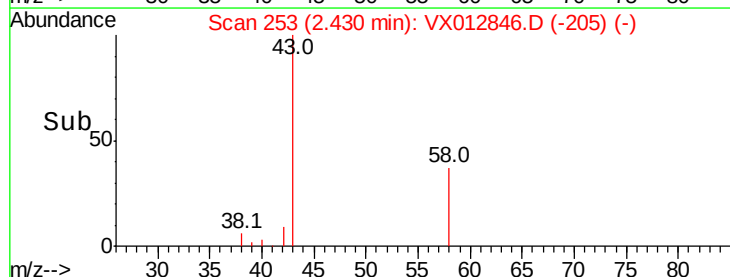
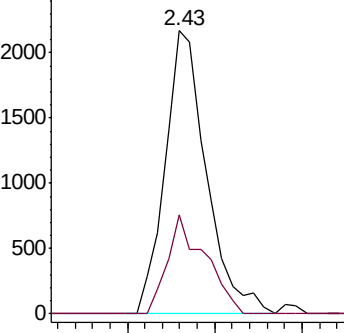
43 100

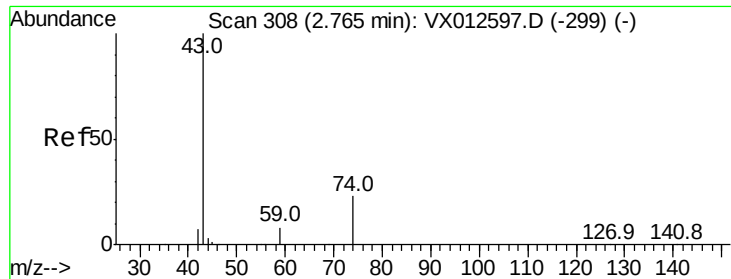
58 35.1 23.3 34.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

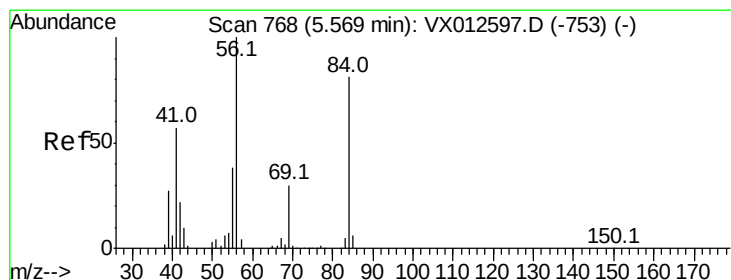
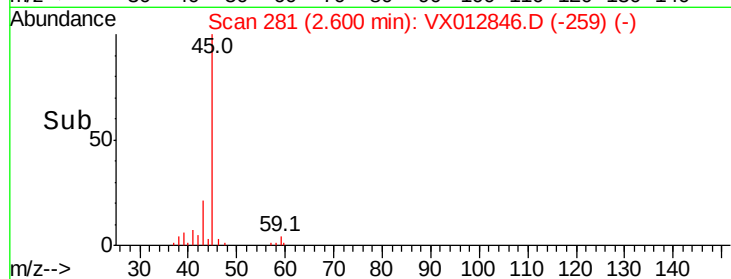
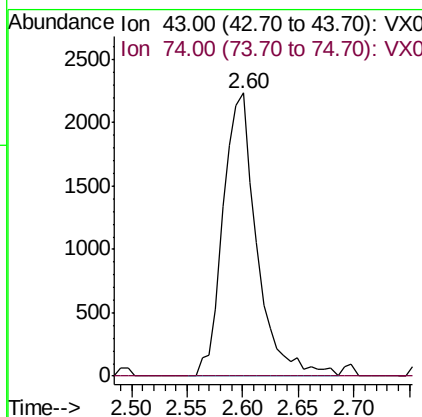
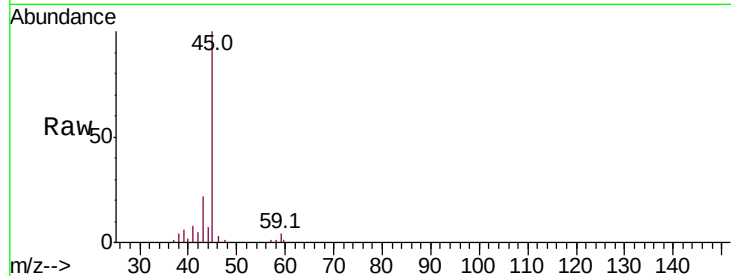




#18
Methvl Acetate
Concen: 1.396 ug/l
RT: 2.60 min Scan# 281
Delta R.T. -0.16 min
Lab File: VX012846.D
Acq: 07 Oct 2019 18:20

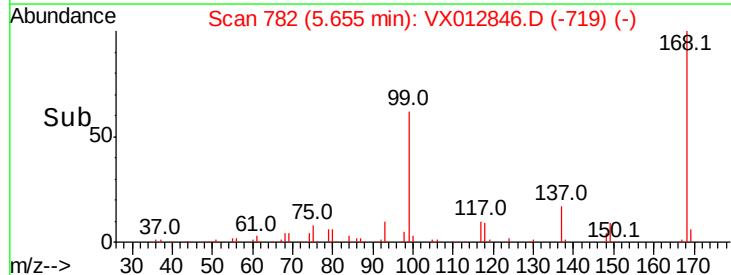
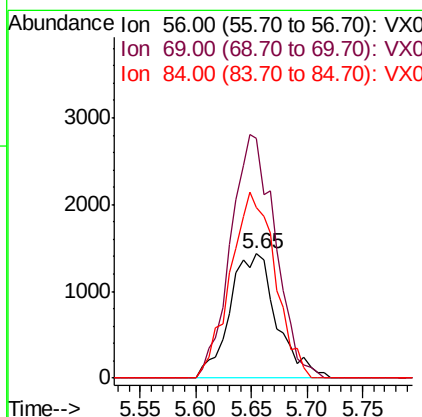
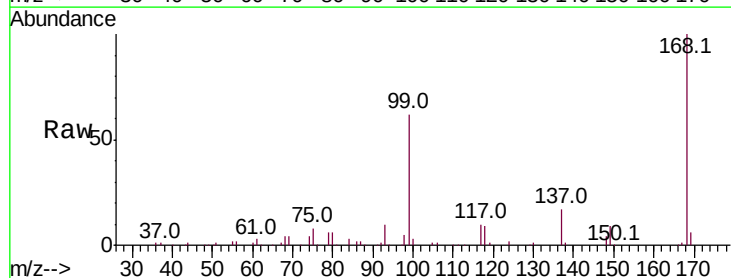
Instrument :
MSVOA_X
ClientSampleId :

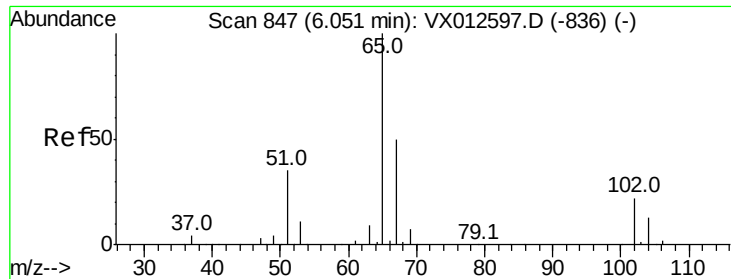
Tot Ion: 43 Resp: 4699
Ion Ratio Lower Upper
43 100
74 0.0 17.7 26.5#



#31
Cyclohexane
Concen: 1.114 ug/l
RT: 5.65 min Scan# 782
Delta R.T. 0.09 min
Lab File: VX012846.D
Acq: 07 Oct 2019 18:20

Tgt Ion: 56 Resp: 4183
Ion Ratio Lower Upper
56 100
69 193.2 25.0 37.6#
84 137.2 66.4 99.6#

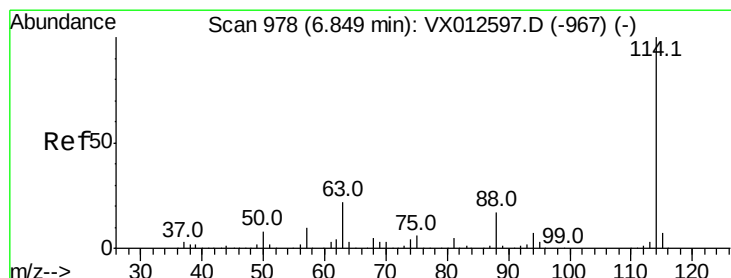
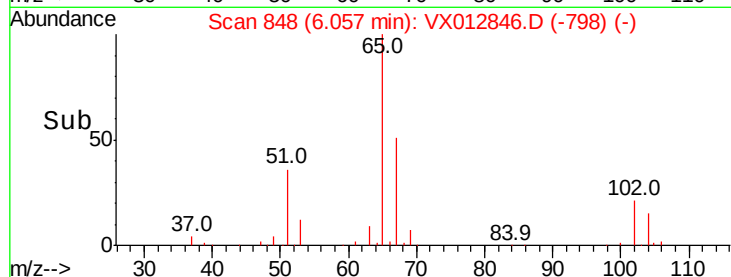
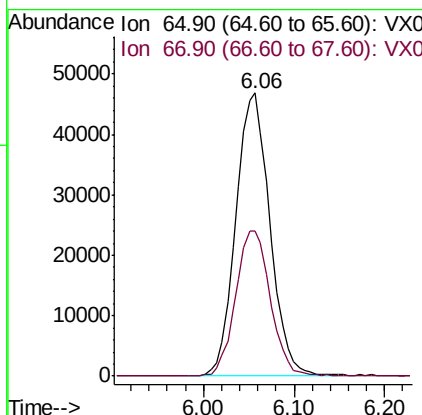
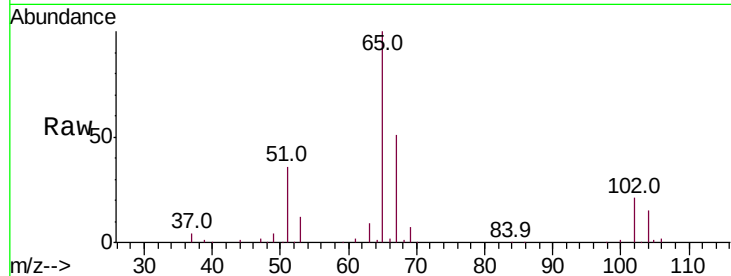




#33
 1,2-Dichloroethane-d4
 Concen: 45.428 ug/l
 RT: 6.06 min Scan# 848
 Delta R.T. 0.01 min
 Lab File: VX012846.D
 Acq: 07 Oct 2019 18:20

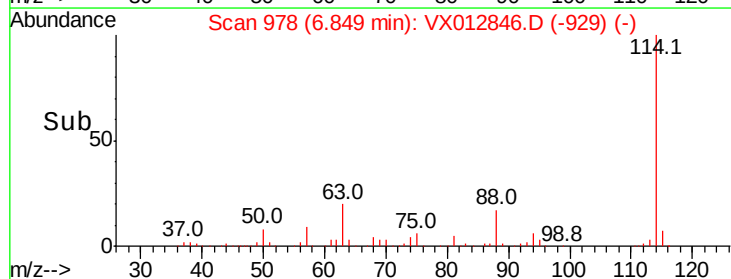
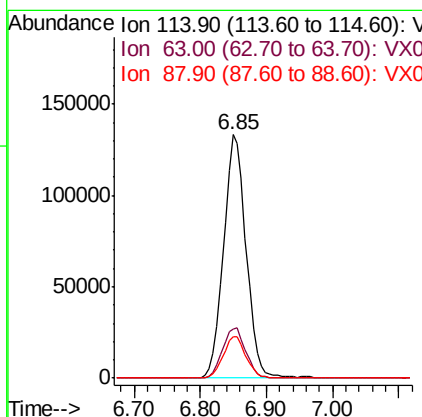
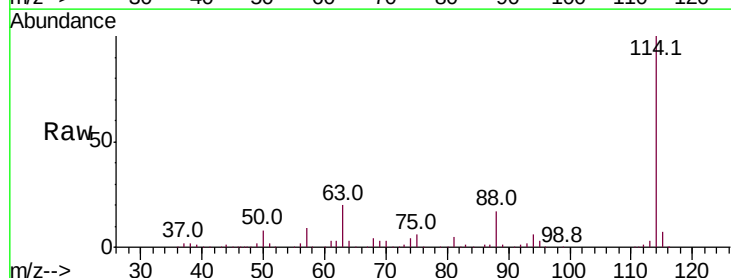
Instrument :
 MSVOA_X
 ClientSampled :

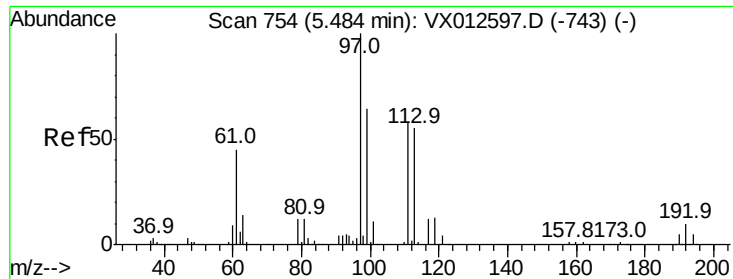
Tot Ion: 65 Resp: 122583
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 101.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012846.D
 Acq: 07 Oct 2019 18:20

Tgt Ion:114 Resp: 314350
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 43.2
 88 16.8 0.0 33.2

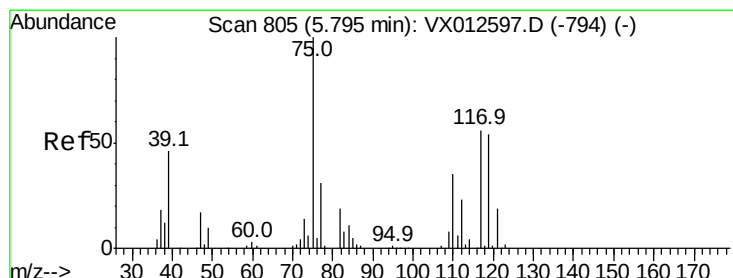
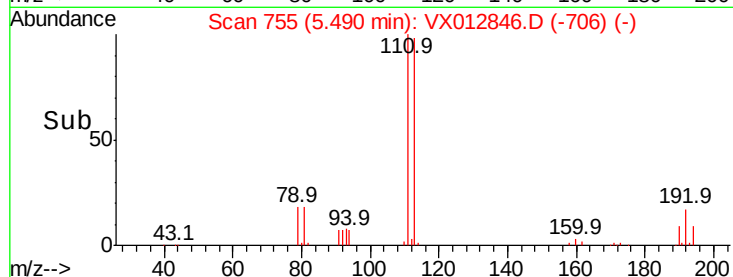
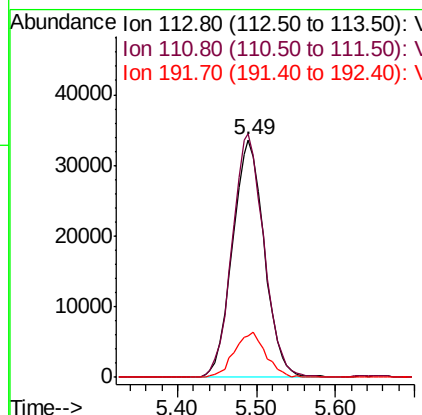
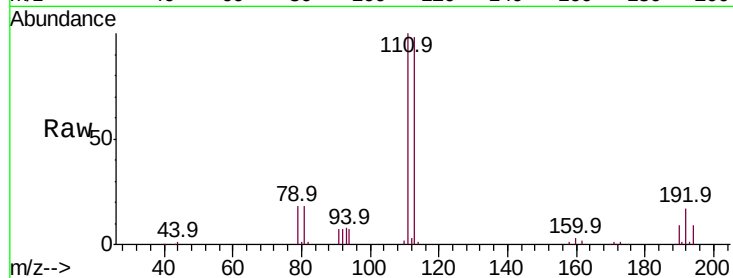




#35
 Dibromofluoromethane
 Concen: 50.298 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX012846.D
 Acq: 07 Oct 2019 18:20

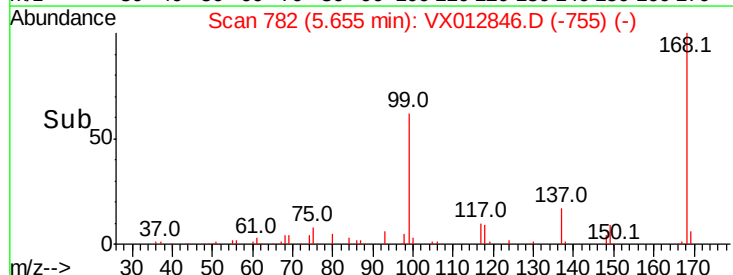
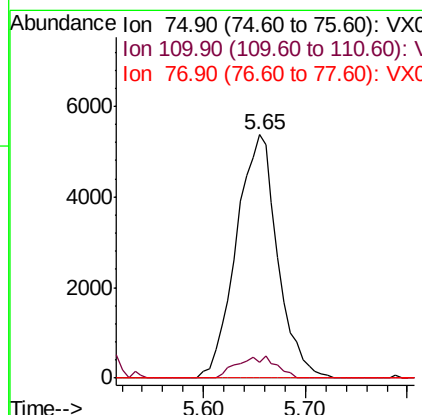
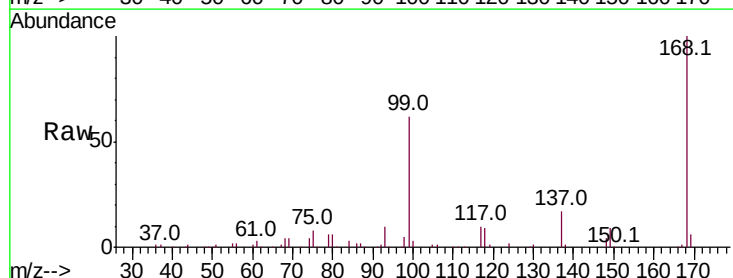
Instrument :
 MSVOA_X
 ClientSampleId :

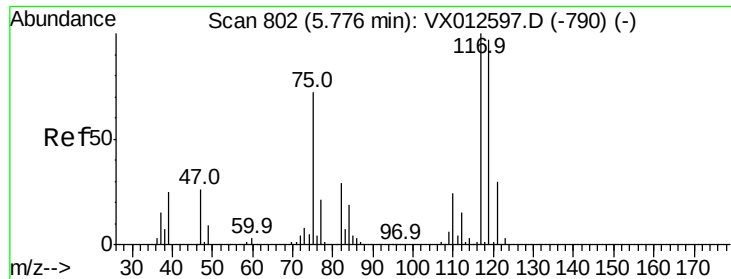
Tot Ion:113 Resp: 94162
 Ion Ratio Lower Upper
 113 100
 111 102.6 83.4 125.2
 192 18.9 14.4 21.6



#36
 1,1-Dichloropropene
 Concen: 4.985 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX012846.D
 Acq: 07 Oct 2019 18:20

Tgt Ion: 75 Resp: 15106
 Ion Ratio Lower Upper
 75 100
 110 8.4 16.7 50.0#
 77 0.0 24.2 36.2#

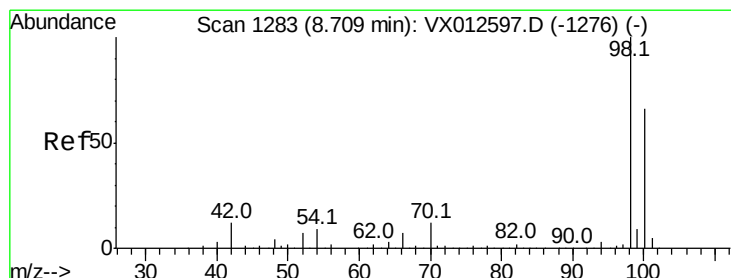
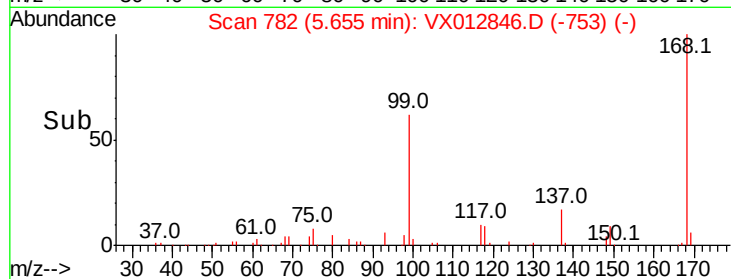
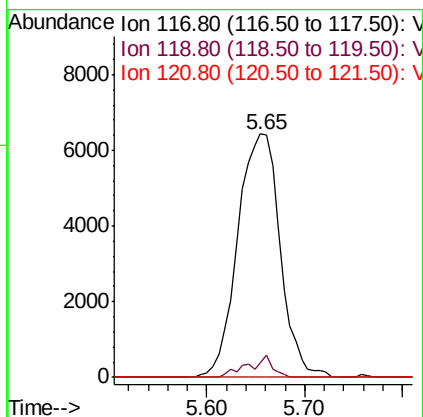
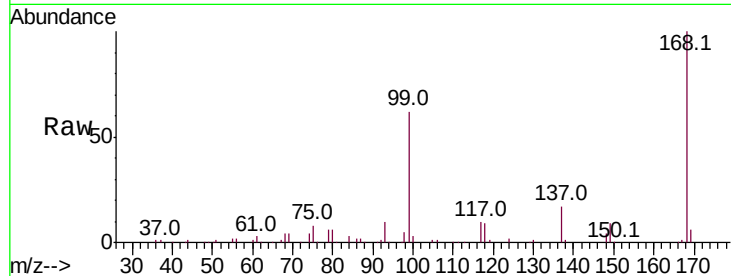




#38
Carbon Tetrachloride
Concen: 6.306 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX012846.D
Acq: 07 Oct 2019 18:20

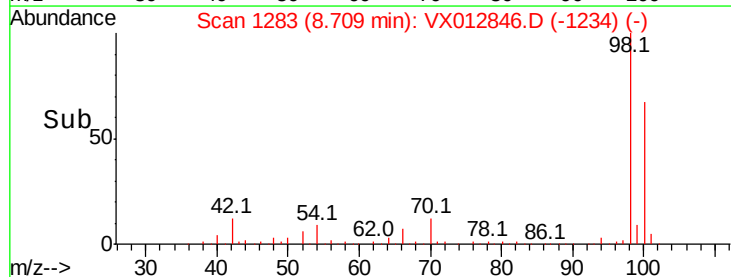
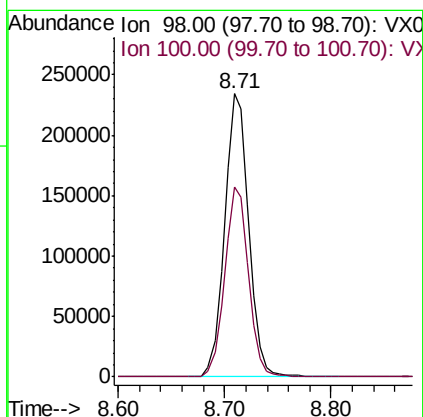
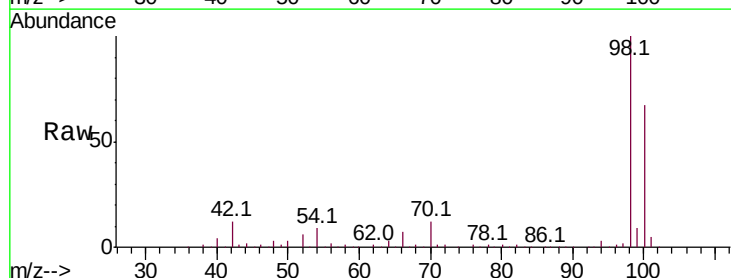
Instrument :
MSVOA_X
ClientSampleId :

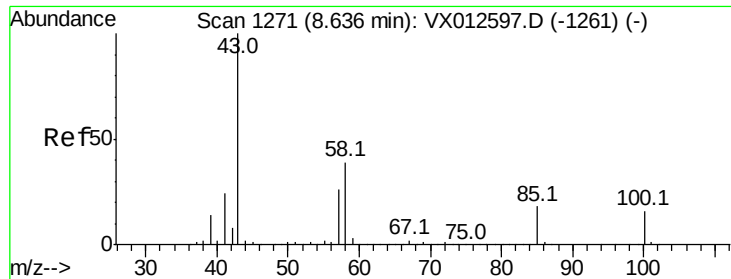
Tot Ion:117 Resp: 19411
Ion Ratio Lower Upper
117 100
119 6.1 75.7 113.5#
121 0.0 24.2 36.4#



#50
Toluene-d8
Concen: 51.249 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012846.D
Acq: 07 Oct 2019 18:20

Tgt Ion: 98 Resp: 369478
Ion Ratio Lower Upper
98 100
100 66.5 53.4 80.2





#51

4-Methyl-2-Pentanone

Concen: 0.501 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VX012846.D

Acq: 07 Oct 2019 18:20

Instrument :

MSVOA_X

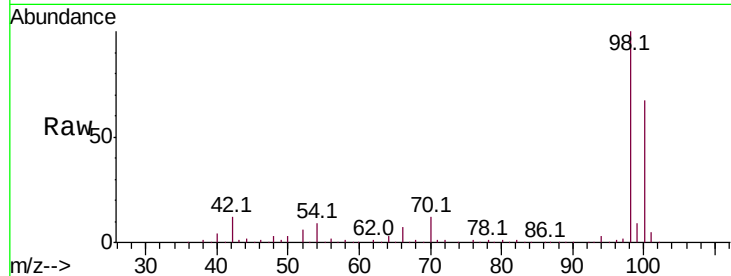
ClientSampleId :

Tot Ion: 43 Resp: 1832

Ion Ratio Lower Upper

43 100

58 172.2 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2500

2000

1500

1000

500

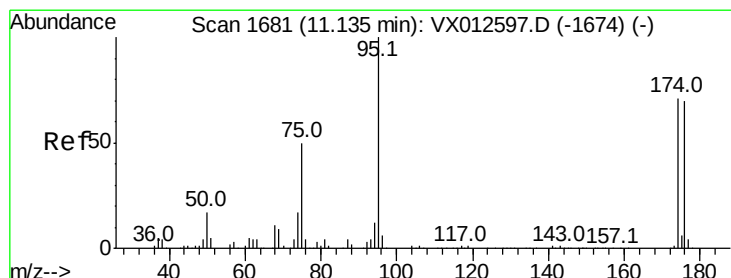
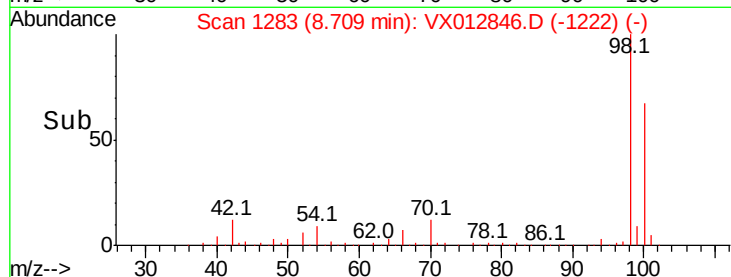
0

8.65

8.70

8.75

Time-->



#62

4-Bromofluorobenzene

Concen: 47.045 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012846.D

Acq: 07 Oct 2019 18:20

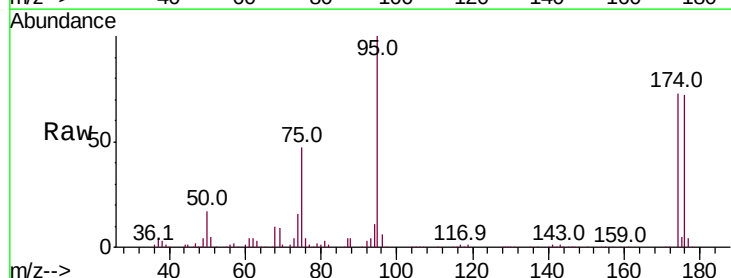
Tgt Ion: 95 Resp: 133363

Ion Ratio Lower Upper

95 100

174 71.0 0.0 140.0

176 67.1 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

100000

50000

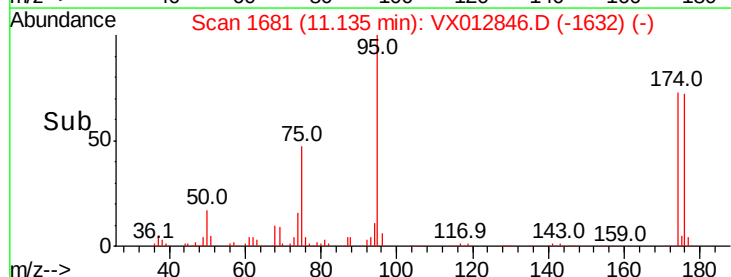
0

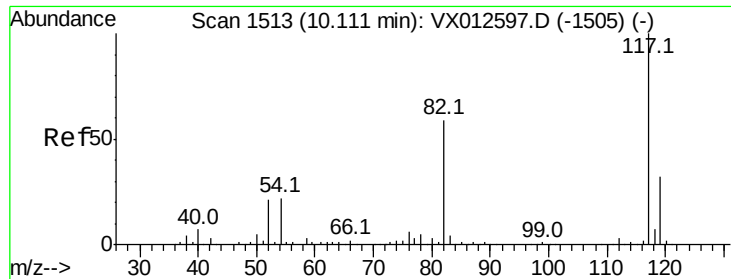
11.10

11.14

11.20

Time-->

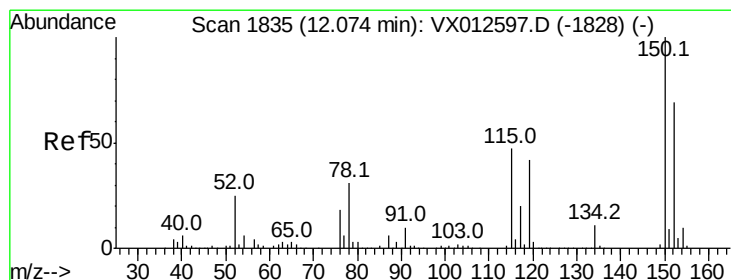
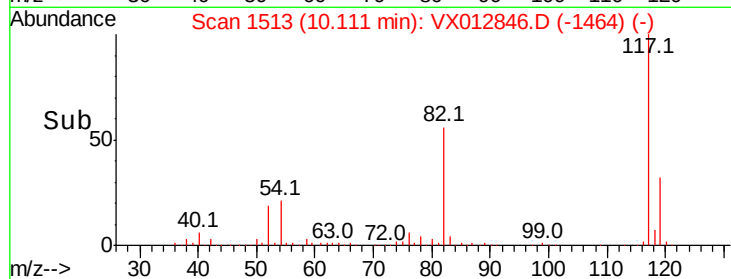
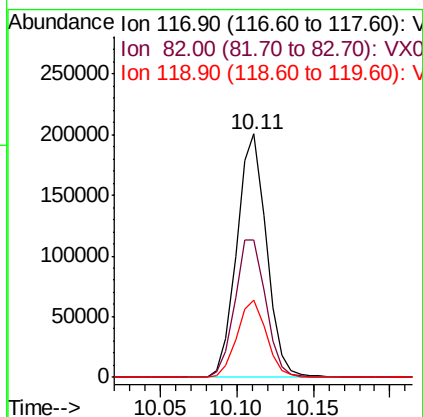
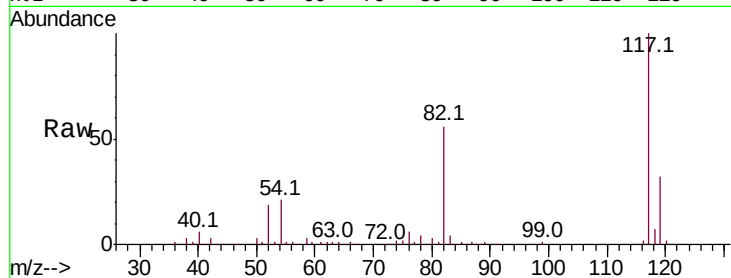




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012846.D
Acq: 07 Oct 2019 18:20

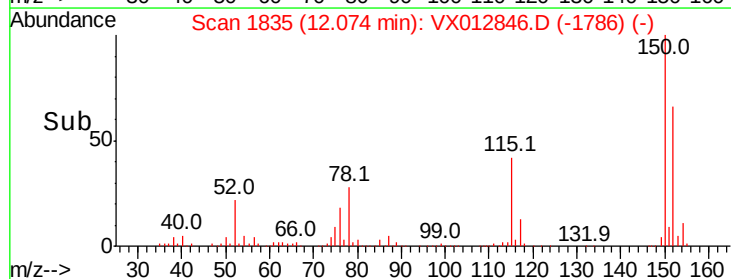
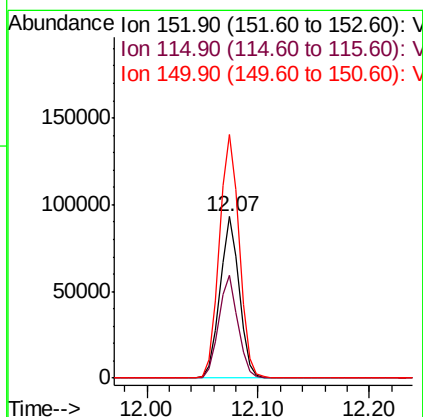
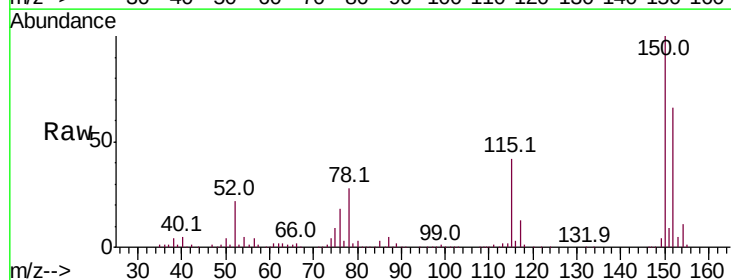
Instrument :
MSVOA_X
ClientSampled :

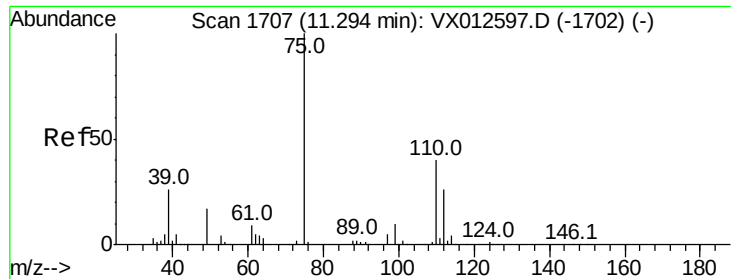
Tot Ion:117 Resp: 269265
Ion Ratio Lower Upper
117 100
82 56.4 45.9 68.9
119 32.0 25.3 37.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX012846.D
Acq: 07 Oct 2019 18:20

Tgt Ion:152 Resp: 111281
Ion Ratio Lower Upper
152 100
115 63.4 44.1 132.3
150 156.4 0.0 343.8





#76

1,2,3-Trichloropropane

Concen: 22.302 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012846.D

Acq: 07 Oct 2019 18:20

Instrument :

MSVOA_X

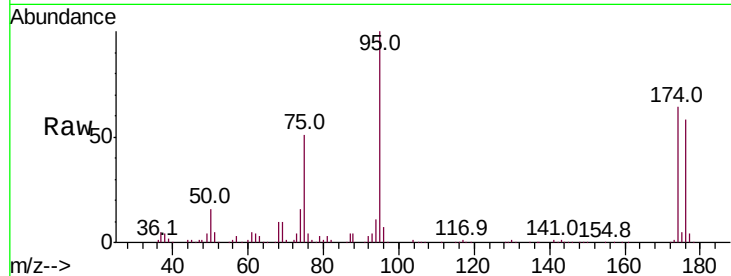
ClientSampleId :

Tot Ion: 75 Resp: 65650

Ion Ratio Lower Upper

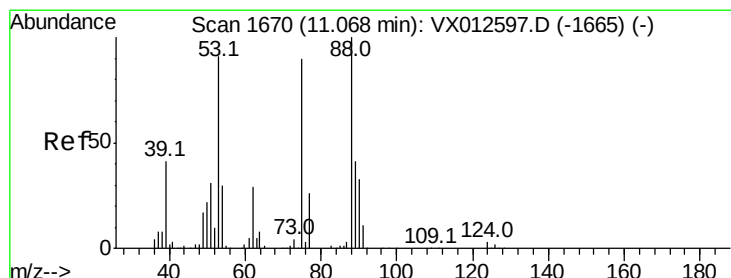
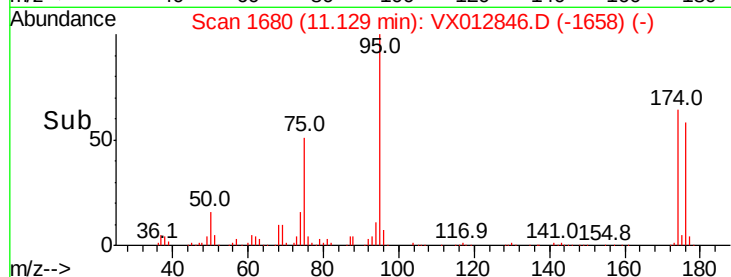
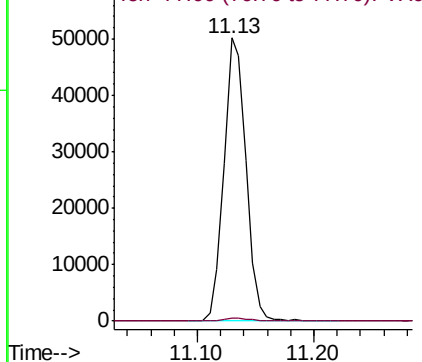
75 100

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: 63.913 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012846.D

Acq: 07 Oct 2019 18:20

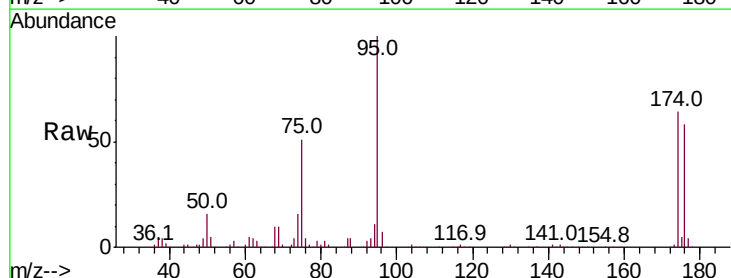
Tgt Ion: 75 Resp: 65650

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

