

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101518\
 Data File : VX005344.D
 Acq On : 15 Oct 2018 15:28
 Operator : JC/MD
 Sample : PB113825TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 16 03:36:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	266631	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	388097	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	355704	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	168140	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	153583	51.90	ug/l	0.00
Spiked Amount			Recovery	=	103.80%	
35) Dibromofluoromethane	5.50	113	122579	47.69	ug/l	0.00
Spiked Amount			Recovery	=	95.38%	
50) Toluene-d8	8.72	98	468310	53.07	ug/l	0.00
Spiked Amount			Recovery	=	106.14%	
62) 4-Bromofluorobenzene	11.14	95	152932	46.13	ug/l	0.00
Spiked Amount			Recovery	=	92.26%	

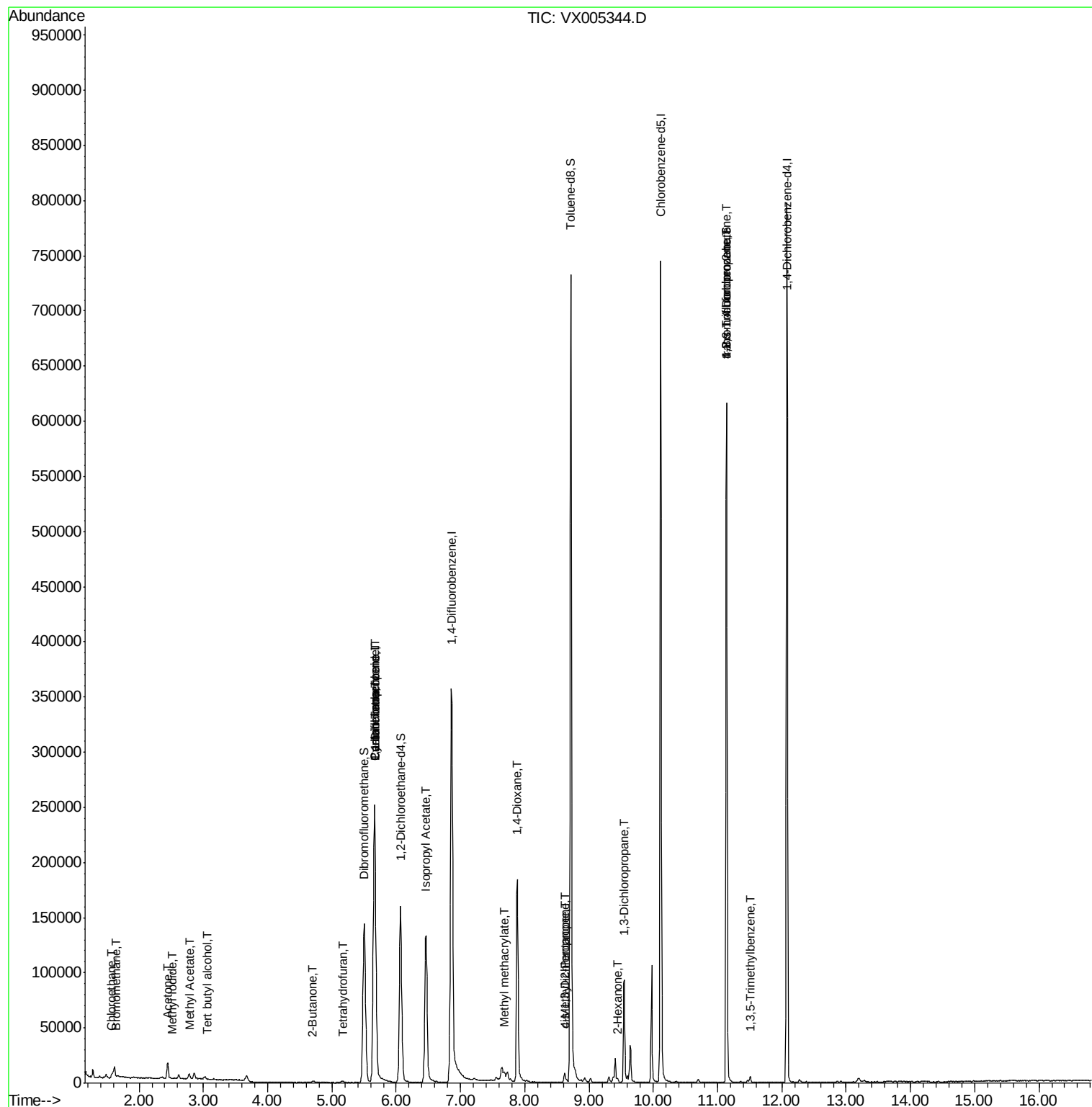
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	522	0.883	ug/l	91
6) Chloroethane	1.56	64	762	0.715	ug/l	93
10) Methyl Iodide	2.51	142	179	2.555	ug/l #	79
11) Tert butyl alcohol	3.06	59	273	0.327	ug/l #	57
13) Acrolein	2.30	56	130	Below Cal		84
16) Acetone	2.45	43	15912	9.300	ug/l	100
18) Methyl Acetate	2.78	43	5483	1.126	ug/l	96
20) Methylene Chloride	2.85	84	2450	Below Cal		95
25) 2-Butanone	4.70	43	2584	1.032	ug/l	99
29) Tetrahydrofuran	5.17	42	1381	0.865	ug/l #	79
31) Cyclohexane	5.66	56	4707	1.157	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	17418	4.634	ug/l #	50
38) Carbon Tetrachloride	5.67	117	23421	6.201	ug/l #	17
43) Isopropyl Acetate	6.46	43	185330	28.782	ug/l	96
44) Trichloroethene	7.22	130	636	Below Cal		96
48) Methyl methacrylate	7.68	41	8930	2.674	ug/l #	19
49) 1,4-Dioxane	7.88	88	41	0.532	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	2711	0.608	ug/l #	50
54) cis-1,3-Dichloropropene	8.62	75	1188	0.300	ug/l #	71
57) 1,3-Dichloropropane	9.55	76	885	0.203	ug/l #	43
59) 2-Hexanone	9.44	43	1250	0.349	ug/l #	22
76) 1,2,3-Trichloropropane	11.14	75	74943	22.979	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	2276	0.266	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.14	75	74943	69.820	ug/l #	10

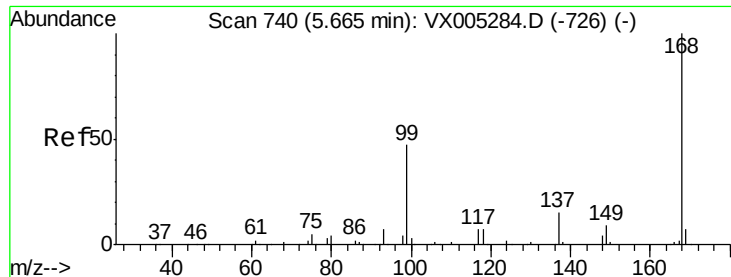
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 16 03:36:46 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 12 11:28:43 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX005344.D

Acq: 15 Oct 2018 15:28

Instrument :

MSVOA_X

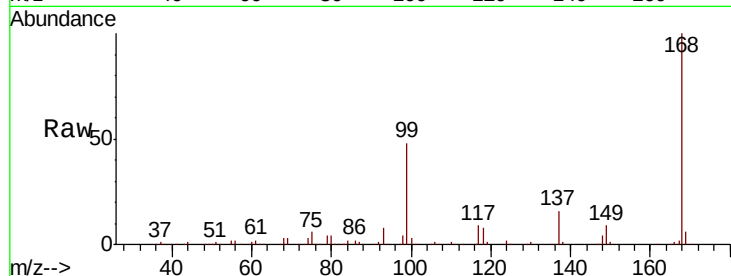
ClientSampleId :

Tot Ion:168 Resp: 266631

Ion Ratio Lower Upper

168 100

99 48.3 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

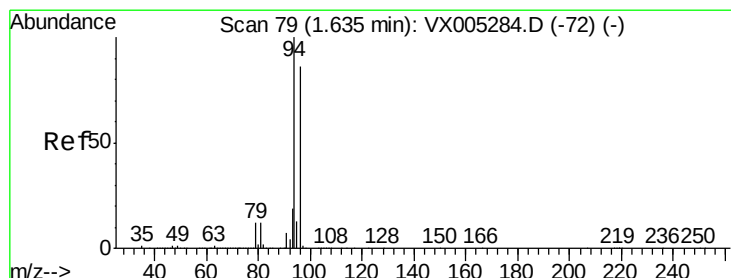
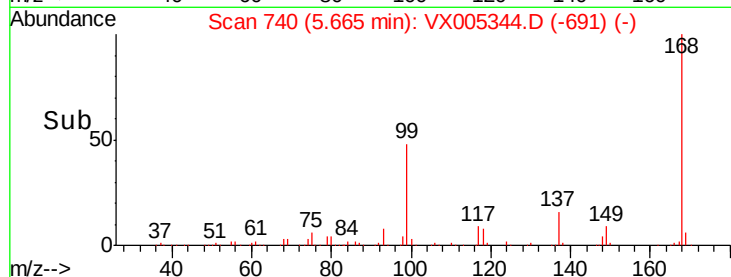
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.883 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX005344.D

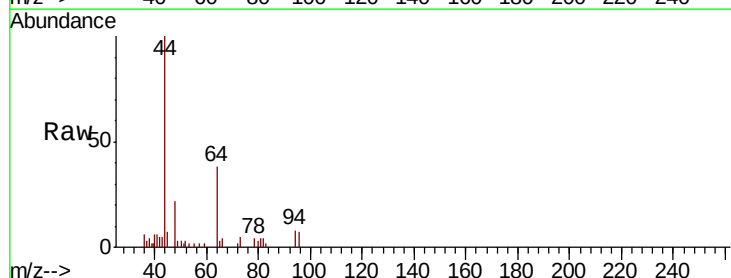
Acq: 15 Oct 2018 15:28

Tgt Ion: 94 Resp: 522

Ion Ratio Lower Upper

94 100

96 84.4 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

200

150

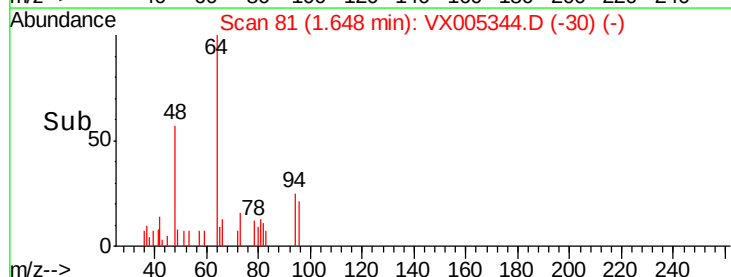
100

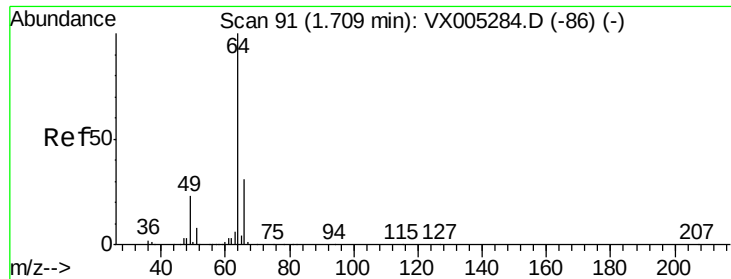
50

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: 0.715 ug/l

RT: 1.56 min Scan# 67

Delta R.T. -0.15 min

Lab File: VX005344.D

Acq: 15 Oct 2018 15:28

Instrument :

MSVOA_X

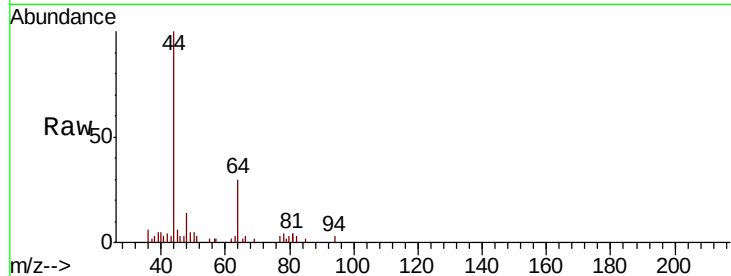
ClientSampleId :

Tot Ion: 64 Resp: 762

Ion Ratio Lower Upper

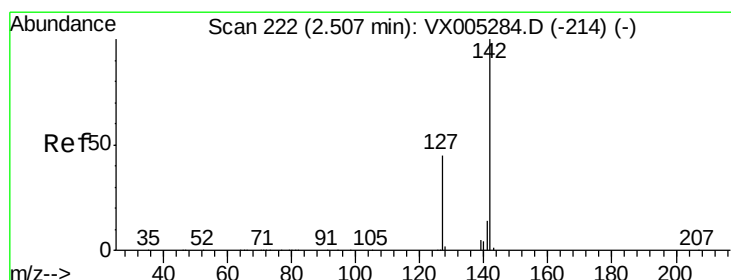
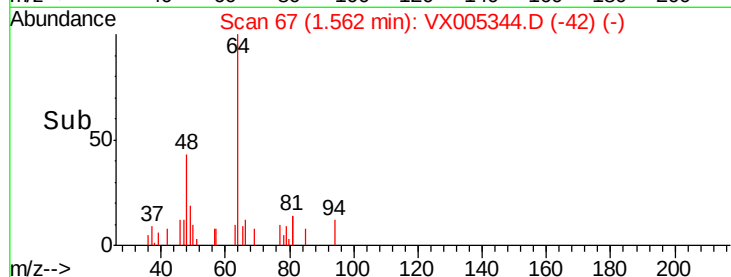
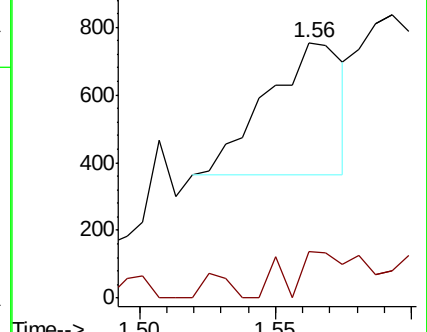
64 100

66 34.7 24.6 36.8



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 2.555 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX005344.D

Acq: 15 Oct 2018 15:28

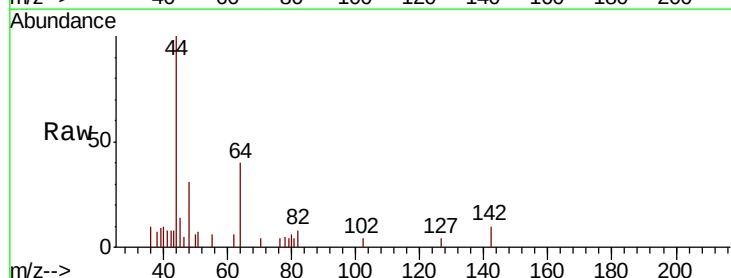
Tgt Ion: 142 Resp: 179

Ion Ratio Lower Upper

142 100

127 31.8 33.8 50.6#

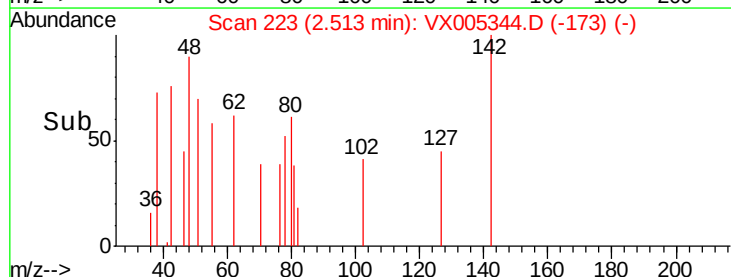
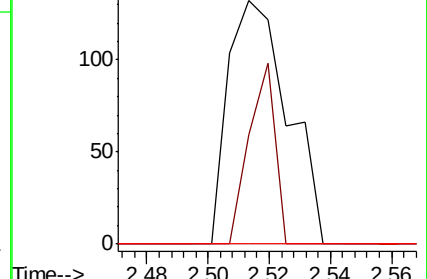
141 0.0 11.4 17.0#

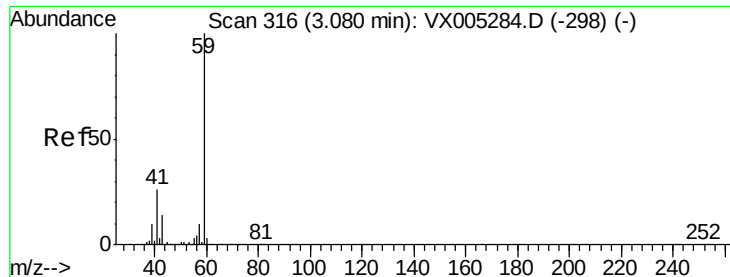


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



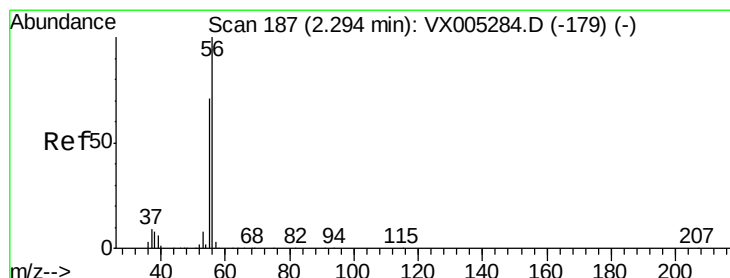
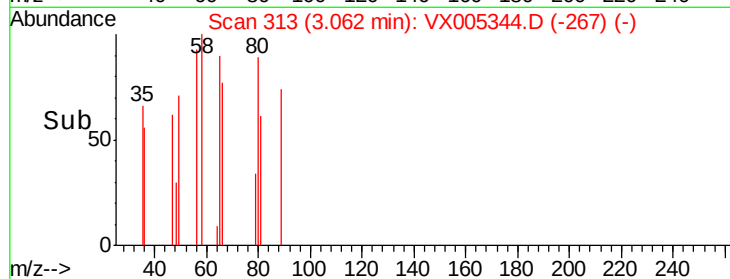
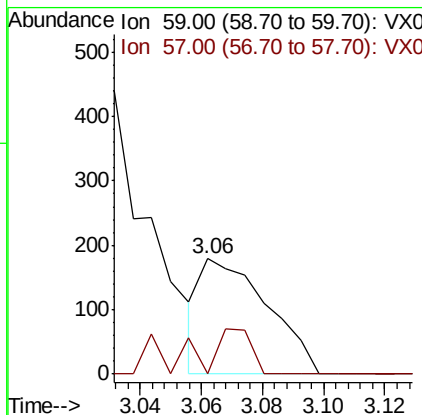
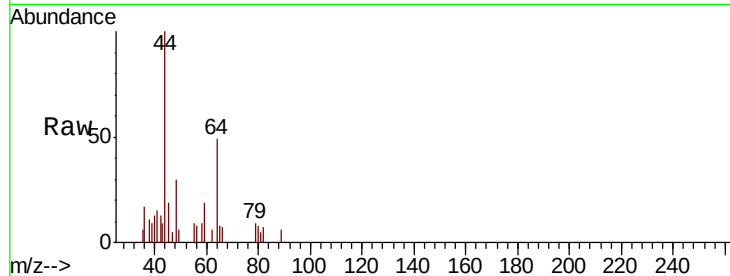


#11

Tert butyl alcohol
 Concen: 0.327 ug/l
 RT: 3.06 min Scan# 313
 Delta R.T. -0.02 min
 Lab File: VX005344.D
 Acq: 15 Oct 2018 15:28

Instrument :
 MSVOA_X
 ClientSampled :

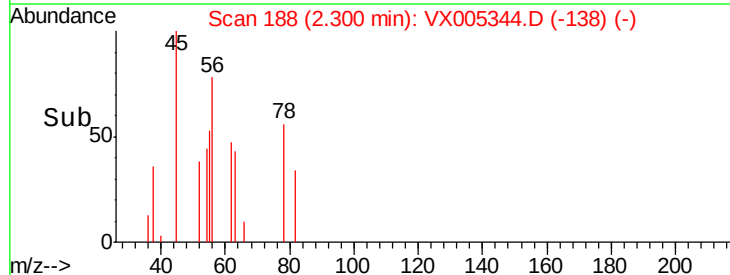
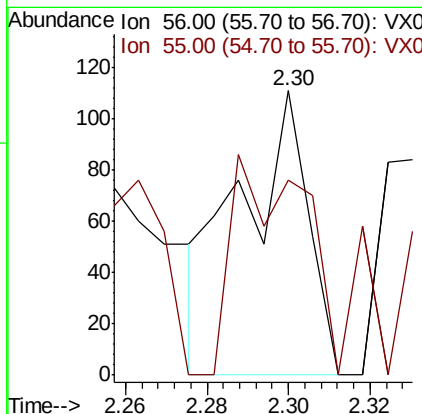
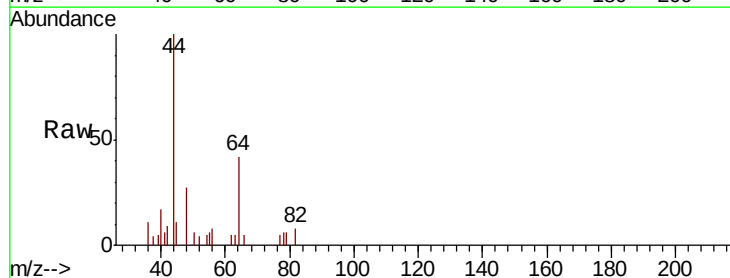
Tot Ion: 59 Resp: 273
 Ion Ratio Lower Upper
 59 100
 57 26.4 8.2 12.4#

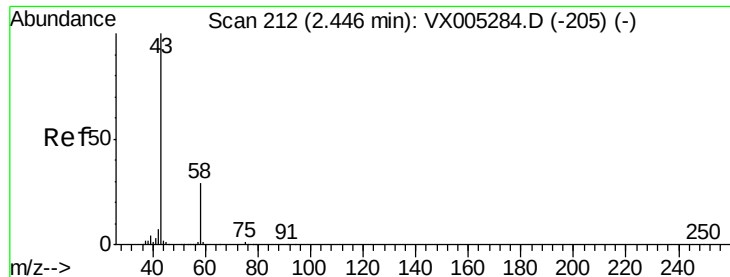


#13

Acrolein
 Concen: Below Cal
 RT: 2.30 min Scan# 188
 Delta R.T. 0.01 min
 Lab File: VX005344.D
 Acq: 15 Oct 2018 15:28

Tgt Ion: 56 Resp: 130
 Ion Ratio Lower Upper
 56 100
 55 81.5 54.7 82.1





#16

Acetone

Concen: 9.300 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005344.D

Acq: 15 Oct 2018 15:28

Instrument :

MSVOA_X

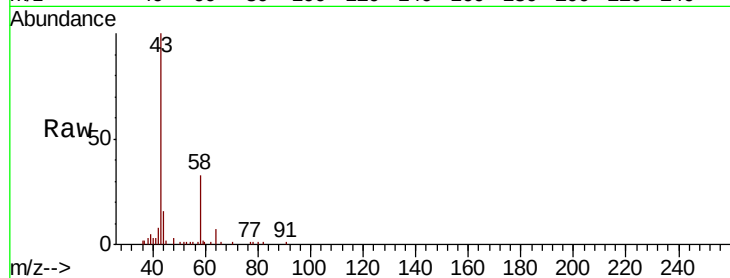
ClientSampled :

Tot Ion: 43 Resp: 15912

Ion Ratio Lower Upper

43 100

58 33.0 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

10000

8000

6000

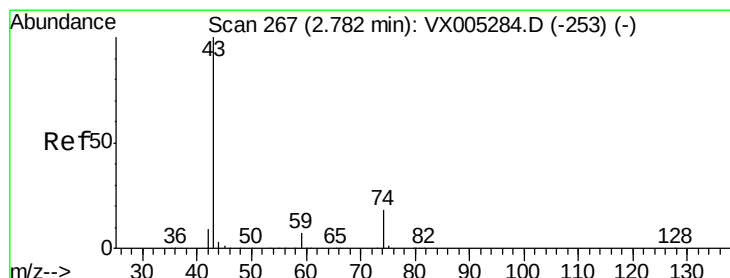
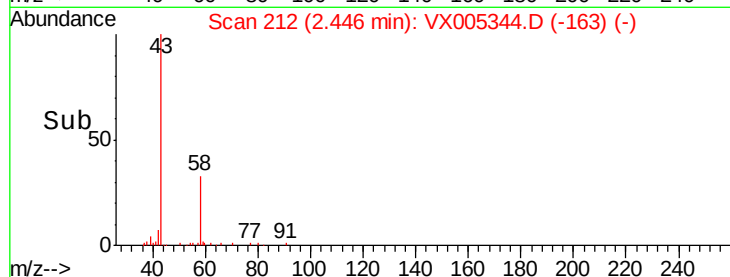
4000

2000

0

Time-->

2.35 2.40 2.45 2.50 2.55



#18

Methyl Acetate

Concen: 1.126 ug/l

RT: 2.78 min Scan# 267

Delta R.T. -0.00 min

Lab File: VX005344.D

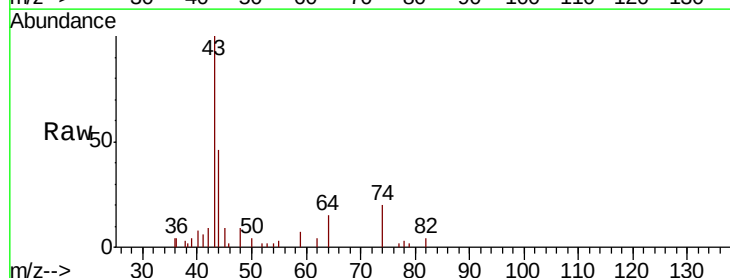
Acq: 15 Oct 2018 15:28

Tgt Ion: 43 Resp: 5483

Ion Ratio Lower Upper

43 100

74 22.5 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

3000

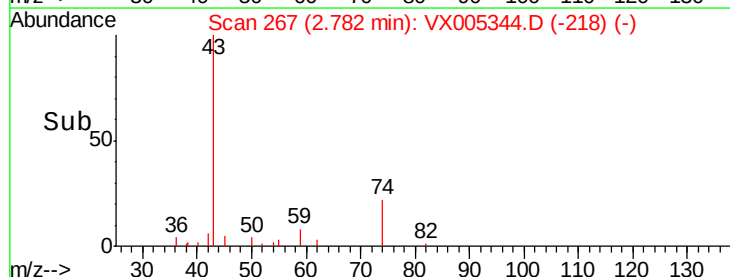
2000

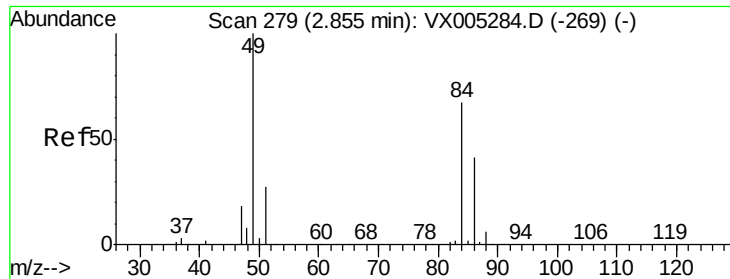
1000

0

Time-->

2.70 2.75 2.80 2.85

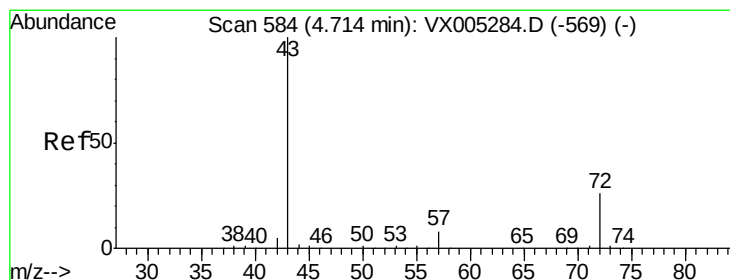
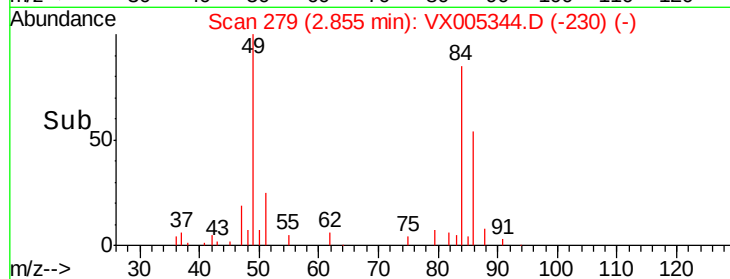
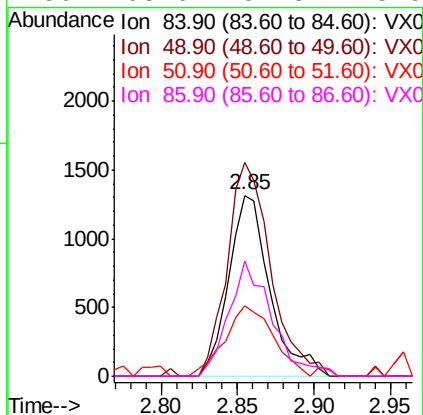
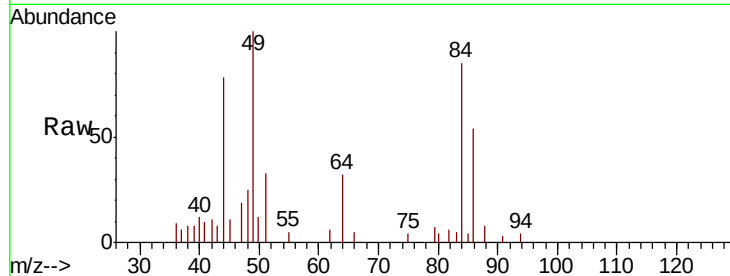




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX005344.D
Acq: 15 Oct 2018 15:28

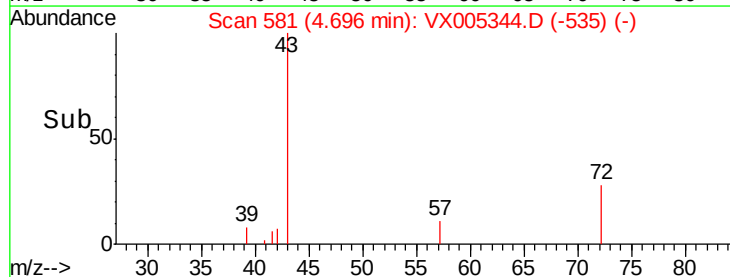
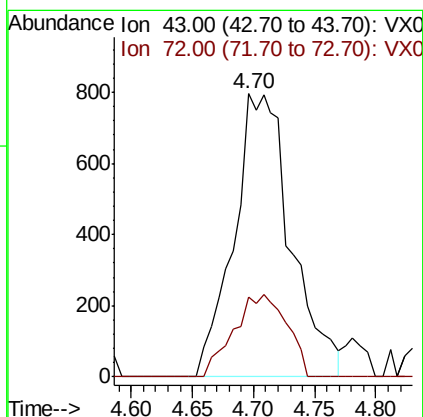
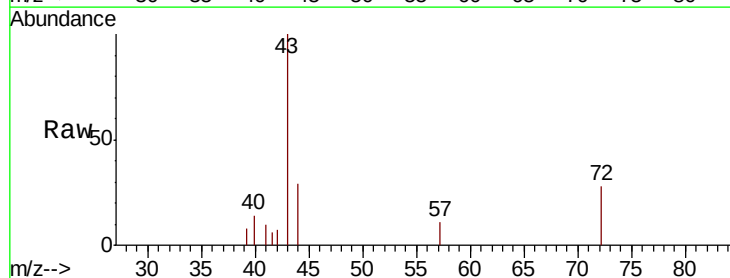
Instrument :
MSVOA_X
ClientSampleId :

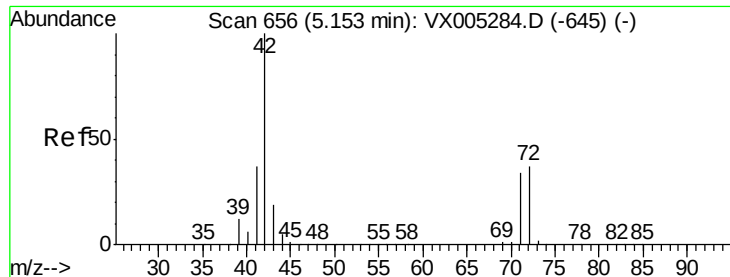
Tot Ion:	84	Resp:	2450
Ion	Ratio	Lower	Upper
84	100		
49	118.3	101.2	151.8
51	38.9	29.5	44.3
86	63.6	52.3	78.5



#25
2-Butanone
Concen: 1.032 ug/l
RT: 4.70 min Scan# 581
Delta R.T. -0.02 min
Lab File: VX005344.D
Acq: 15 Oct 2018 15:28

Tgt Ion:	43	Resp:	2584
Ion	Ratio	Lower	Upper
43	100		
72	28.0	22.0	33.0

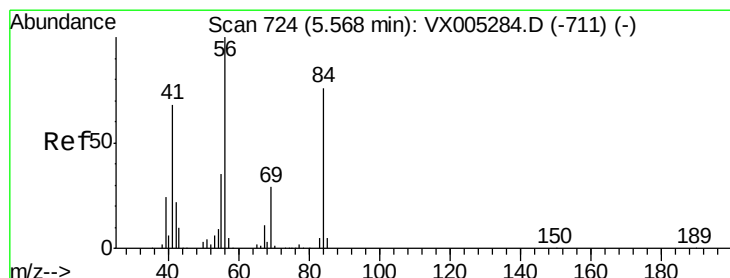
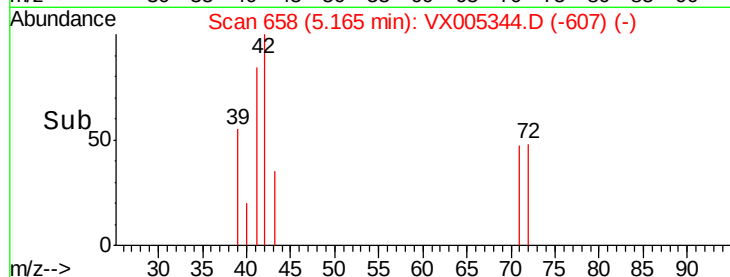
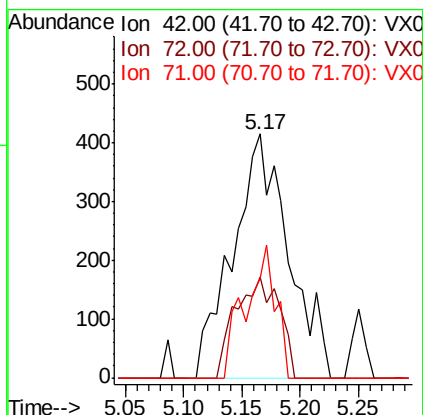
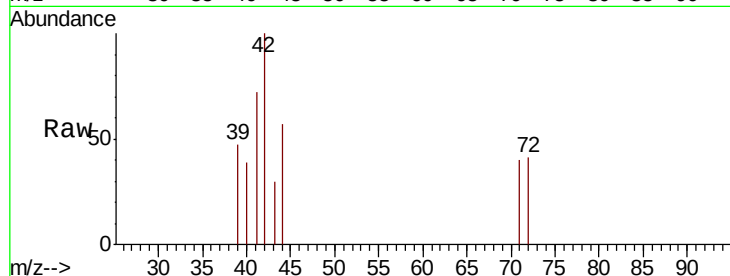




#29
Tetrahydrofuran
Concen: 0.865 ug/l
RT: 5.17 min Scan# 658
Delta R.T. 0.01 min
Lab File: VX005344.D
Acq: 15 Oct 2018 15:28

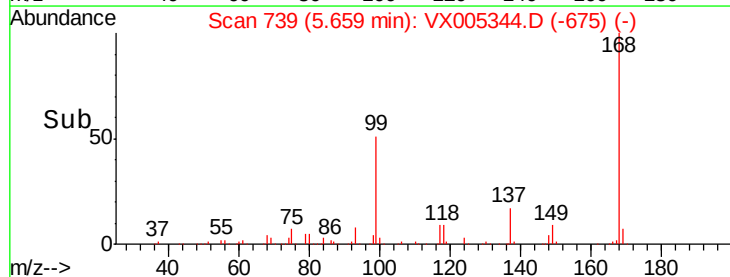
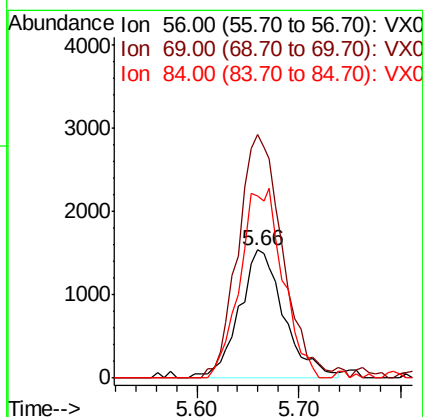
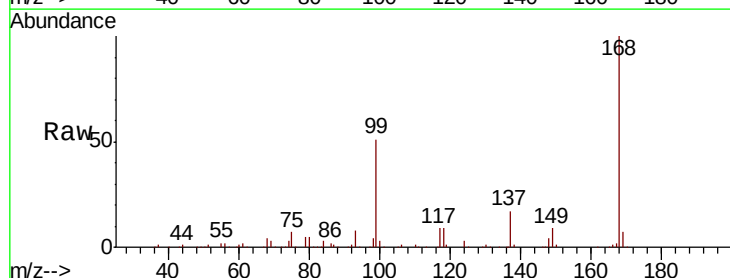
Instrument :
MSVOA_X
ClientSampled :

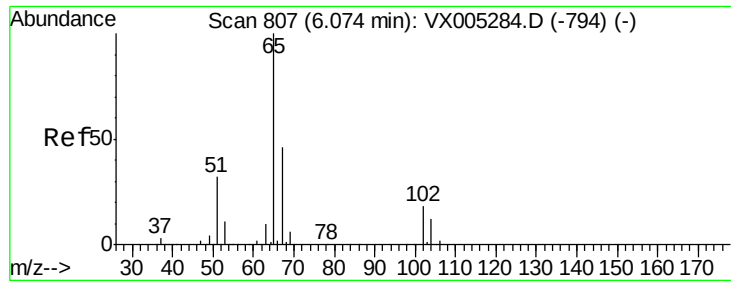
Tot Ion: 42 Resp: 1381
Ion Ratio Lower Upper
42 100
72 32.3 37.4 56.0#
71 29.6 34.5 51.7#



#31
Cyclohexane
Concen: 1.157 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX005344.D
Acq: 15 Oct 2018 15:28

Tgt Ion: 56 Resp: 4707
Ion Ratio Lower Upper
56 100
69 189.9 25.4 38.2#
84 142.1 71.4 107.2#

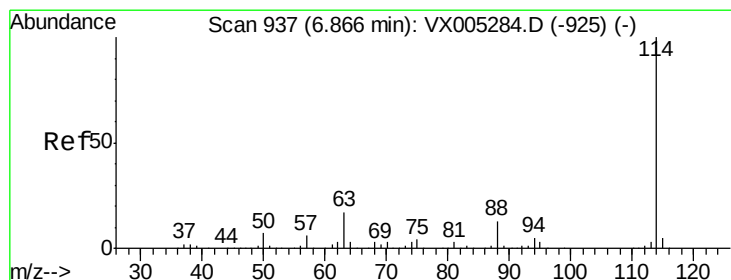
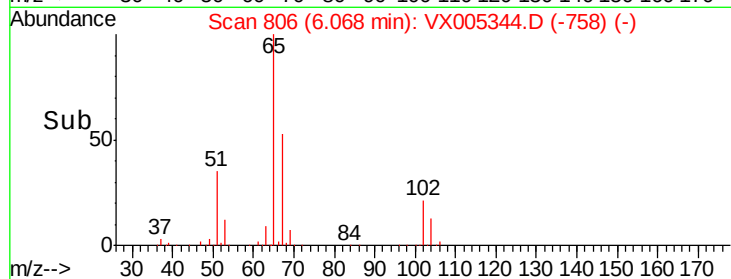
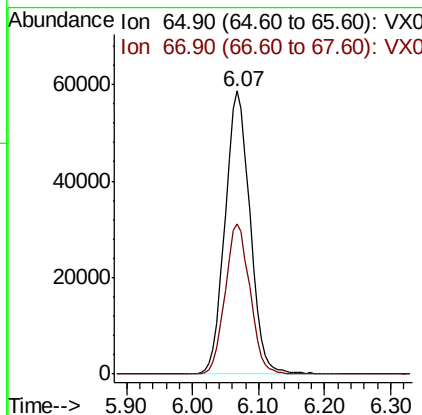
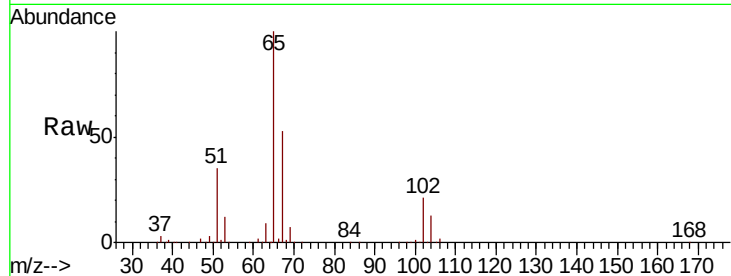




#33
 1,2-Dichloroethane-d4
 Concen: 51.900 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.01 min
 Lab File: VX005344.D
 Acq: 15 Oct 2018 15:28

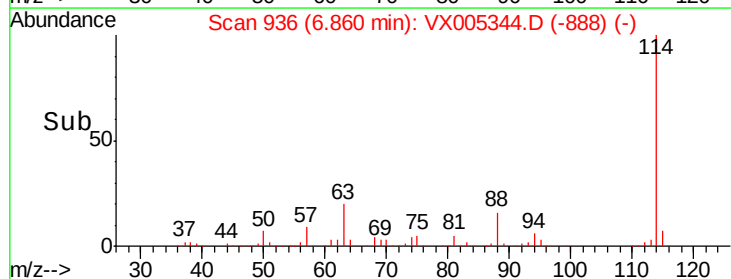
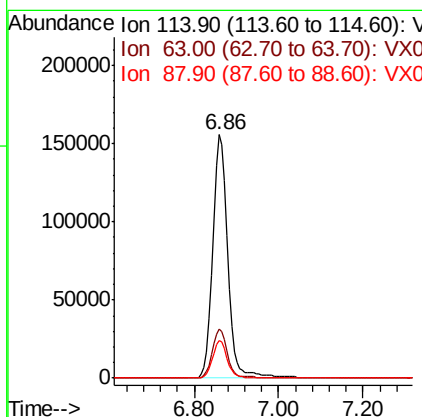
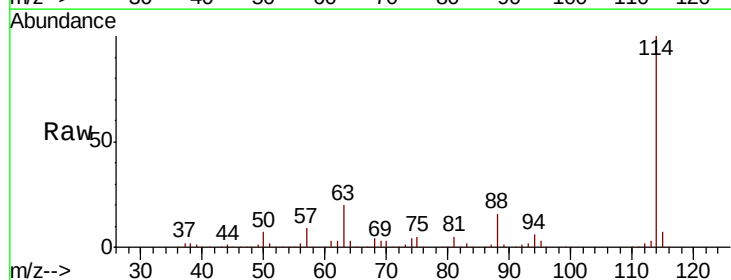
Instrument :
 MSVOA_X
 ClientSampleId :

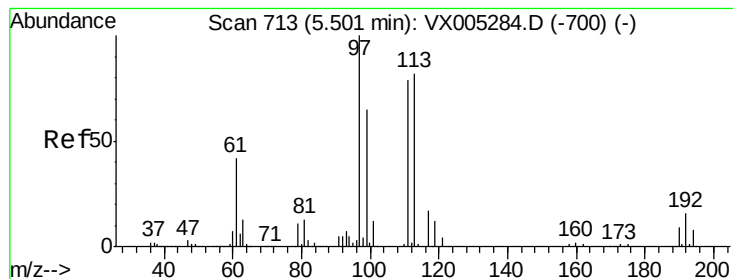
Tot Ion: 65 Resp: 153583
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VX005344.D
 Acq: 15 Oct 2018 15:28

Tgt Ion: 114 Resp: 388097
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 39.0
 88 15.6 0.0 30.4





#35

Dibromofluoromethane

Concen: 47.688 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX005344.D

Acq: 15 Oct 2018 15:28

Instrument :

MSVOA_X

ClientSampled :

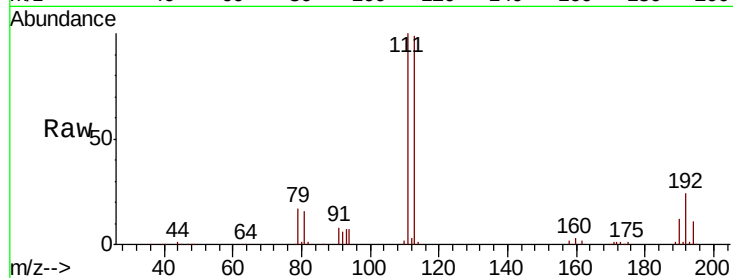
Tot Ion:113 Resp: 122579

Ion Ratio Lower Upper

113 100

111 103.2 82.4 123.6

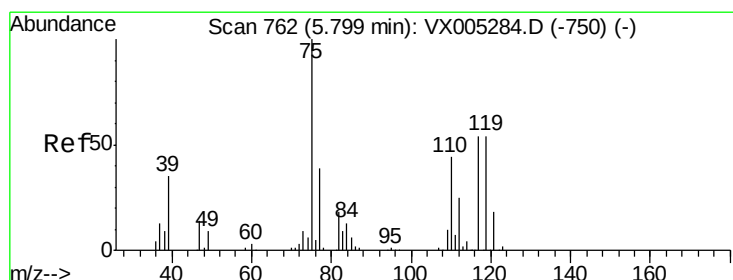
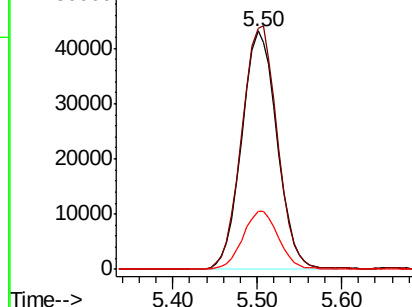
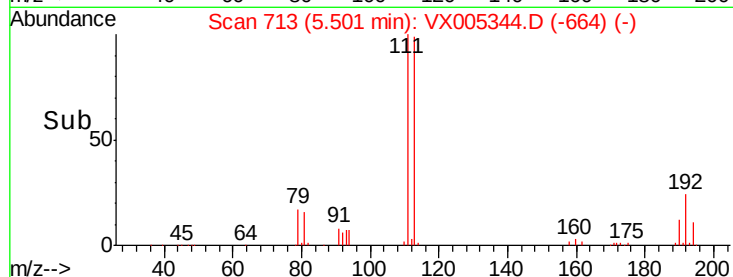
192 24.6 19.4 29.2



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: 4.634 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX005344.D

Acq: 15 Oct 2018 15:28

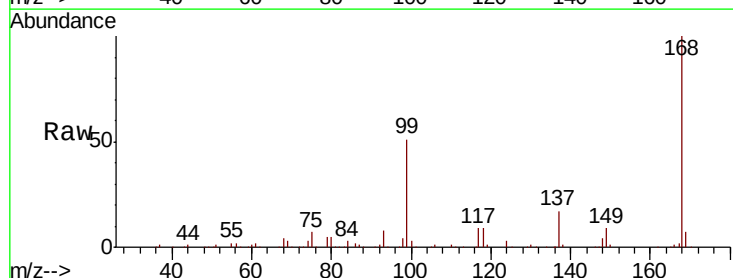
Tgt Ion: 75 Resp: 17418

Ion Ratio Lower Upper

75 100

110 9.3 18.0 54.0#

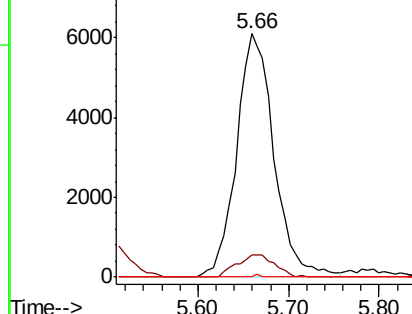
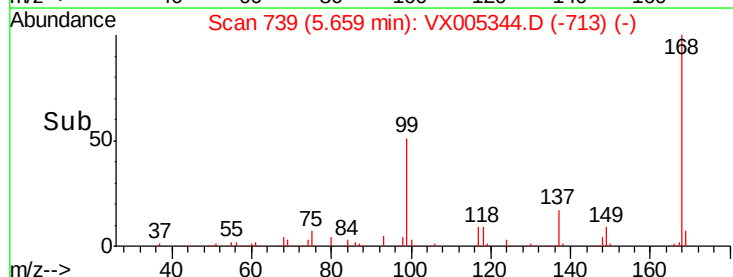
77 0.1 24.6 36.8#

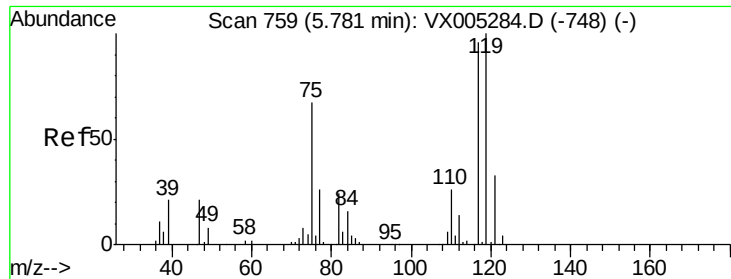


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.201 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005344.D

Acq: 15 Oct 2018 15:28

Instrument :

MSVOA_X

ClientSampled :

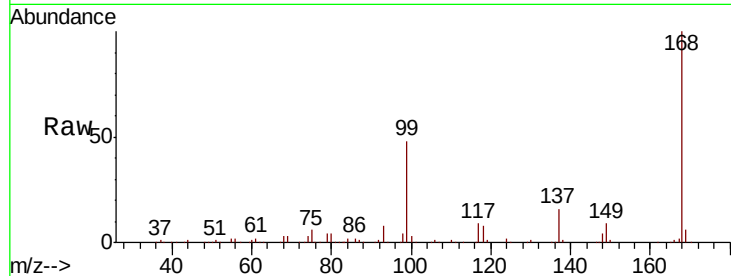
Tot Ion:117 Resp: 23421

Ion Ratio Lower Upper

117 100

119 7.5 78.8 118.2#

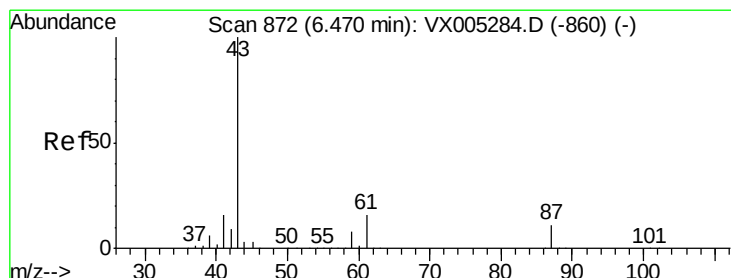
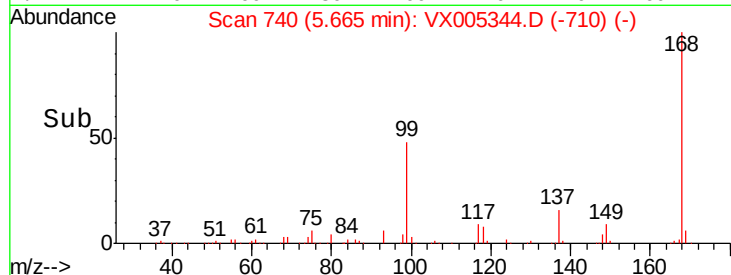
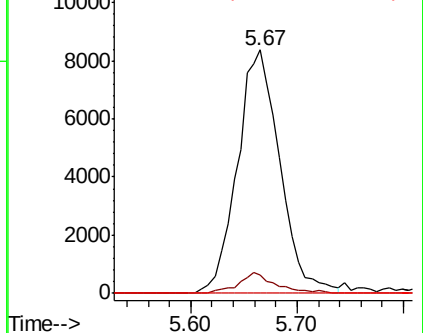
121 0.0 24.9 37.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 28.782 ug/l

RT: 6.46 min Scan# 871

Delta R.T. -0.01 min

Lab File: VX005344.D

Acq: 15 Oct 2018 15:28

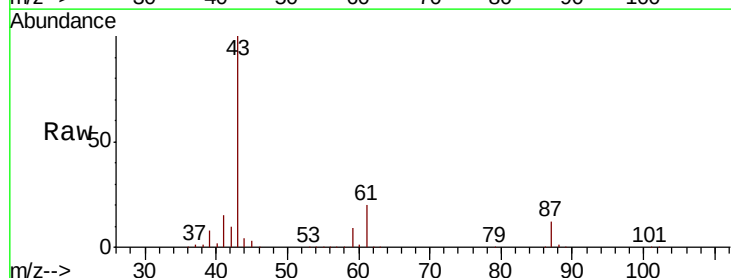
Tgt Ion: 43 Resp: 185330

Ion Ratio Lower Upper

43 100

61 19.3 17.0 25.4

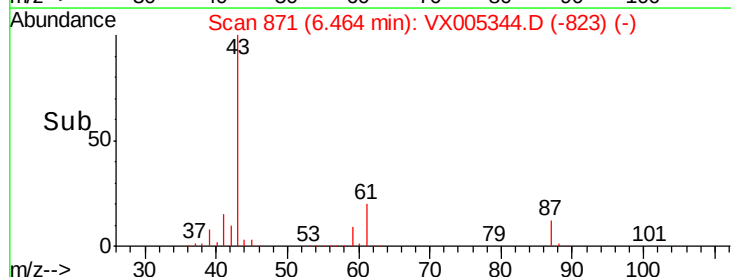
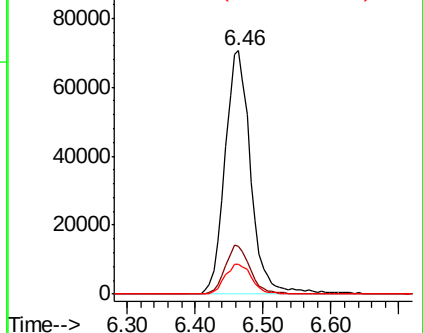
87 12.8 11.4 17.2

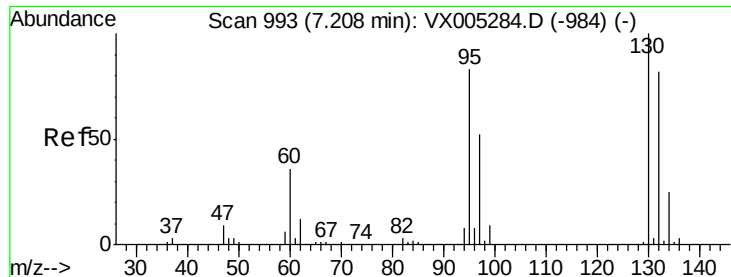


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

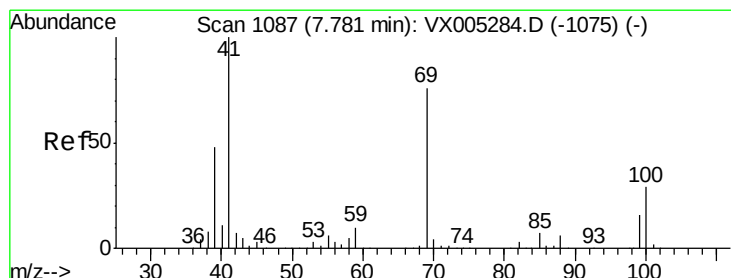
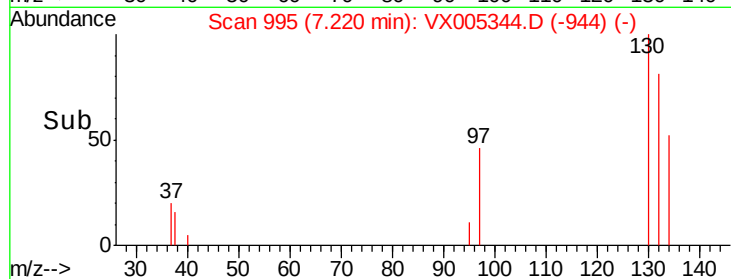
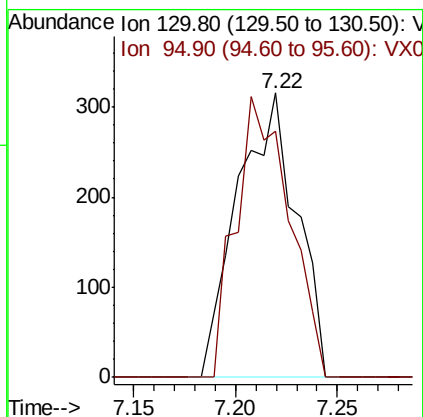
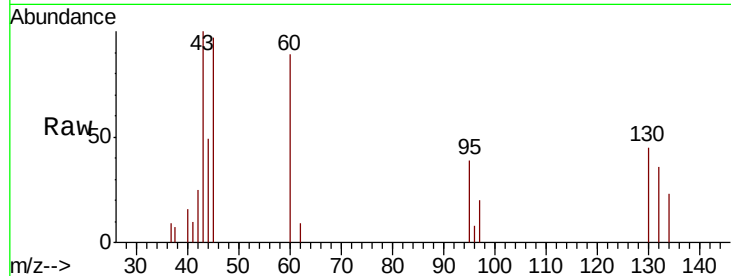




#44
 Trichloroethene
 Concen: Below Cal
 RT: 7.22 min Scan# 995
 Delta R.T. 0.01 min
 Lab File: VX005344.D
 Acq: 15 Oct 2018 15:28

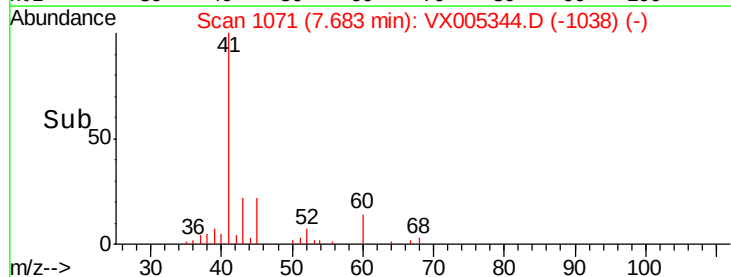
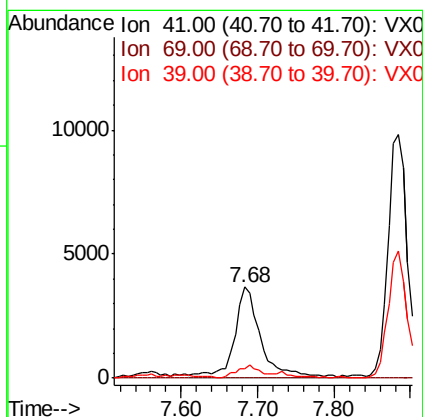
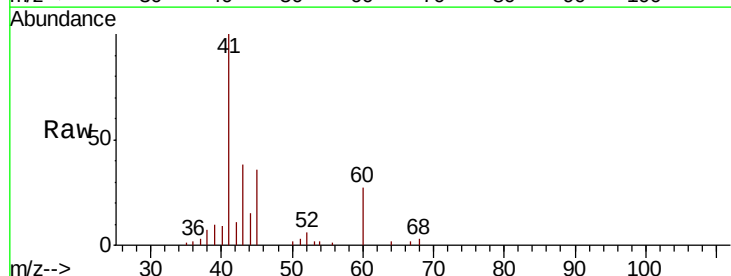
Instrument :
 MSVOA_X
 ClientSampleId :

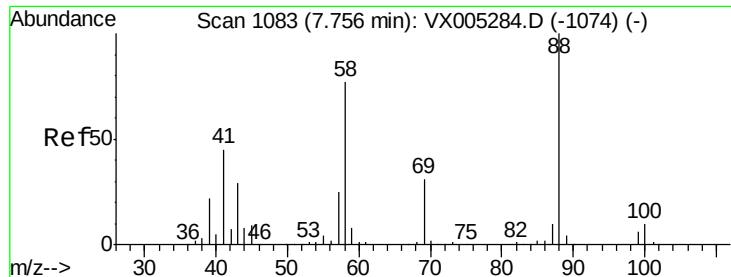
Tot Ion:130 Resp: 636
 Ion Ratio Lower Upper
 130 100
 95 86.7 0.0 181.6



#48
 Methyl methacrylate
 Concen: 2.674 ug/l
 RT: 7.68 min Scan# 1071
 Delta R.T. -0.10 min
 Lab File: VX005344.D
 Acq: 15 Oct 2018 15:28

Tgt Ion: 41 Resp: 8930
 Ion Ratio Lower Upper
 41 100
 69 0.0 70.2 105.4#
 39 11.6 42.7 64.1#

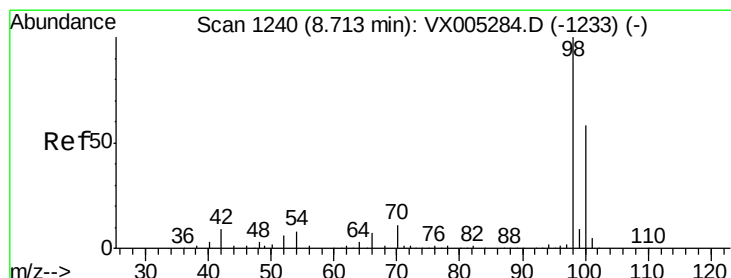
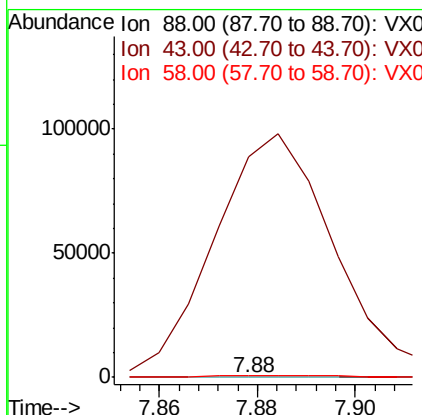
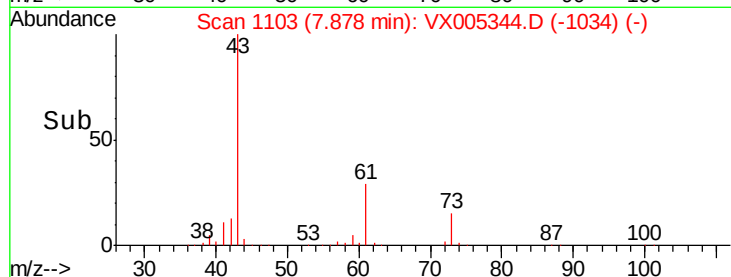
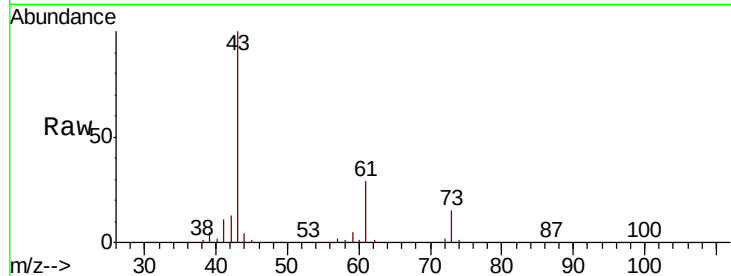




#49
 1,4-Dioxane
 Concen: 0.532 ug/l
 RT: 7.88 min Scan# 1103
 Delta R.T. 0.12 min
 Lab File: VX005344.D
 Acq: 15 Oct 2018 15:28

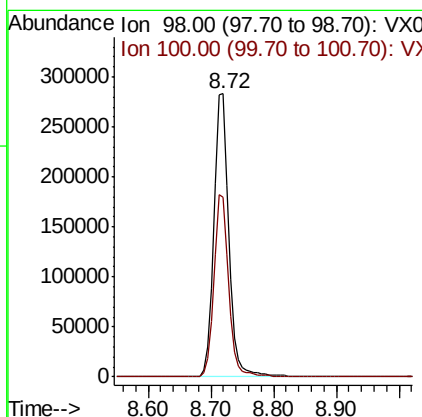
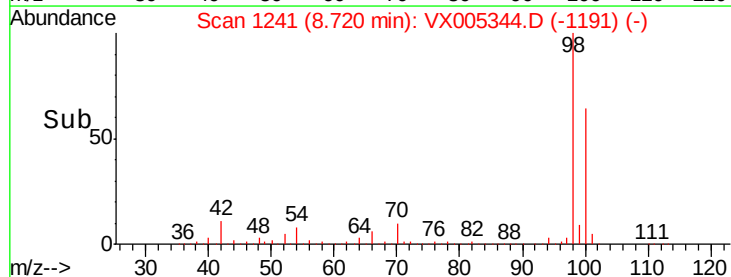
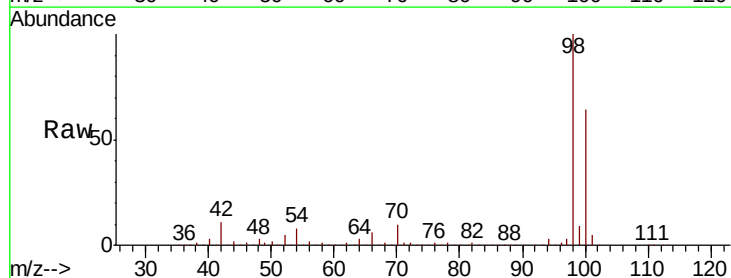
Instrument :
 MSVOA_X
 ClientSampleId :

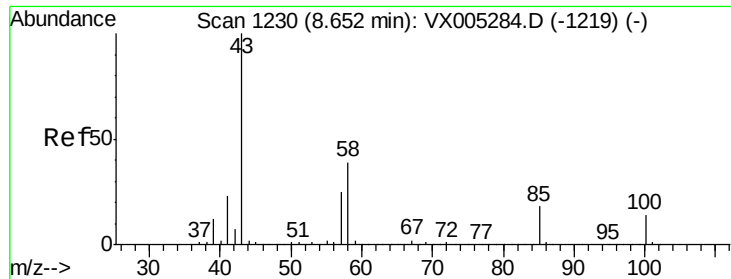
Tot Ion: 88 Resp: 41
 Ion Ratio Lower Upper
 88 100
 43 423404.9 24.7 37.1#
 58 3826.8 55.3 82.9#



#50
 Toluene-d8
 Concen: 53.069 ug/l
 RT: 8.72 min Scan# 1241
 Delta R.T. 0.01 min
 Lab File: VX005344.D
 Acq: 15 Oct 2018 15:28

Tgt Ion: 98 Resp: 468310
 Ion Ratio Lower Upper
 98 100
 100 63.4 52.9 79.3





#51

4-Methyl-2-Pentanone

Concen: 0.608 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX005344.D

Acq: 15 Oct 2018 15:28

Instrument :

MSVOA_X

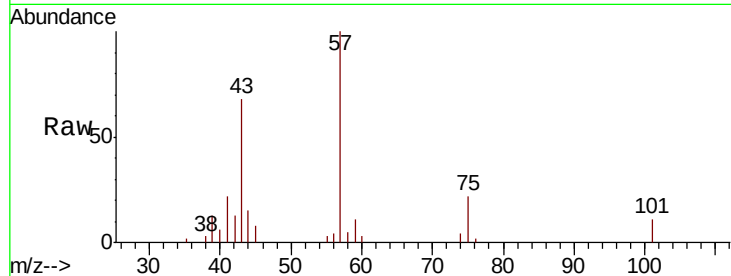
ClientSampled :

Tot Ion: 43 Resp: 2711

Ion Ratio Lower Upper

43 100

58 9.9 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.62

2000

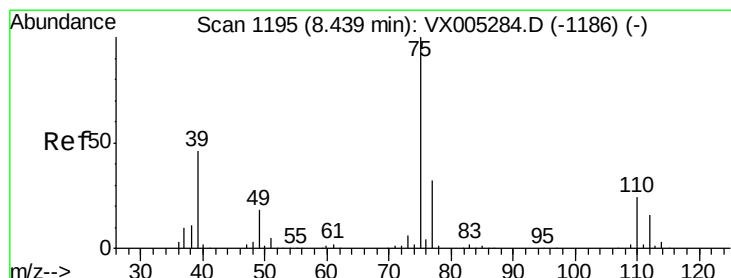
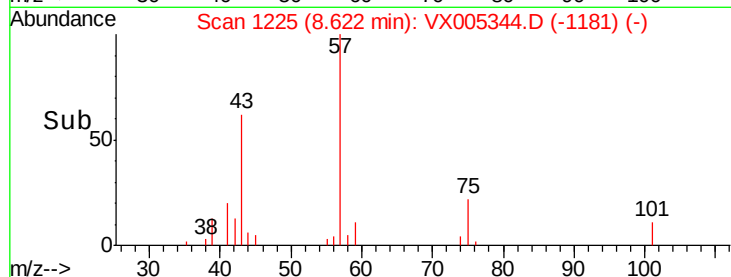
1500

1000

500

0

Time--> 8.55 8.60 8.65



#54

cis-1,3-Dichloropropene

Concen: 0.300 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX005344.D

Acq: 15 Oct 2018 15:28

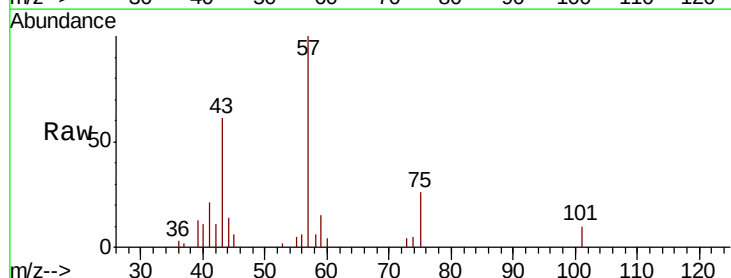
Tgt Ion: 75 Resp: 1188

Ion Ratio Lower Upper

75 100

77 0.0 26.2 39.2#

39 40.5 36.4 54.6



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0

8.62

800

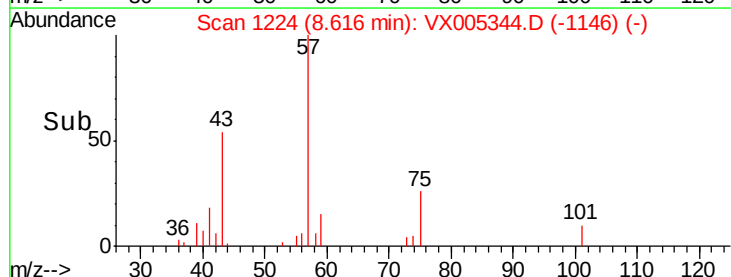
600

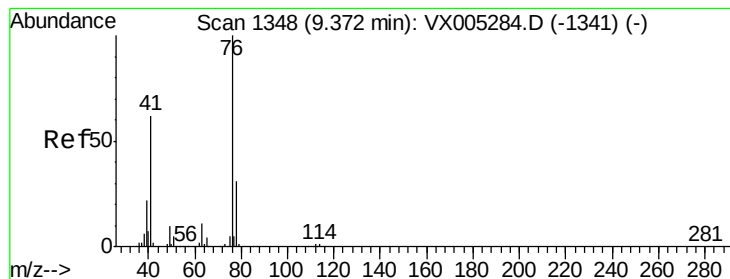
400

200

0

Time--> 8.55 8.60 8.65





#57

1,3-Dichloropropane

Concen: 0.203 ug/l

RT: 9.55 min Scan# 1377

Delta R.T. 0.18 min

Lab File: VX005344.D

Acq: 15 Oct 2018 15:28

Instrument :

MSVOA_X

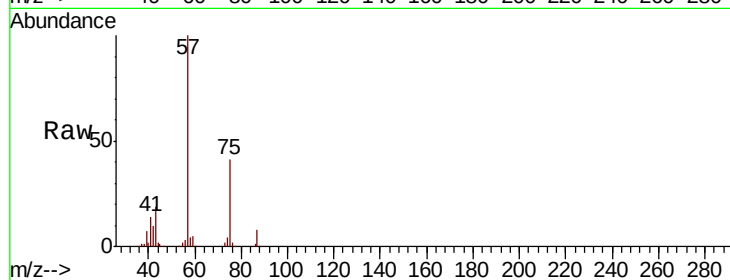
ClientSampleId :

Tot Ion: 76 Resp: 885

Ion Ratio Lower Upper

76 100

78 0.0 25.5 38.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

800

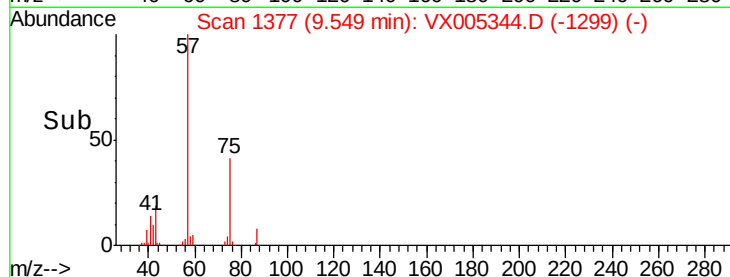
600

400

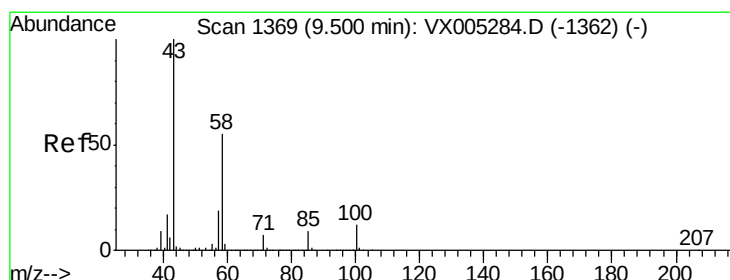
200

0

9.50 9.55 9.60



Time-->



#59

2-Hexanone

Concen: 0.349 ug/l

RT: 9.44 min Scan# 1359

Delta R.T. -0.06 min

Lab File: VX005344.D

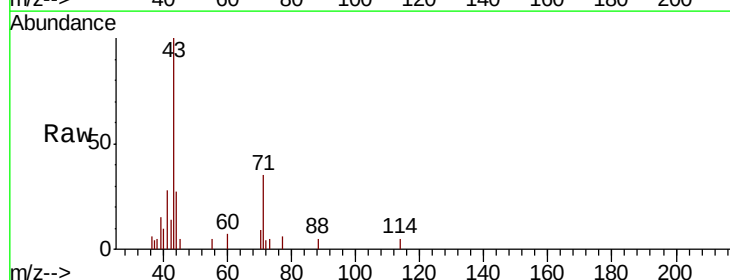
Acq: 15 Oct 2018 15:28

Tgt Ion: 43 Resp: 1250

Ion Ratio Lower Upper

43 100

58 0.0 29.0 87.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

3000

2500

2000

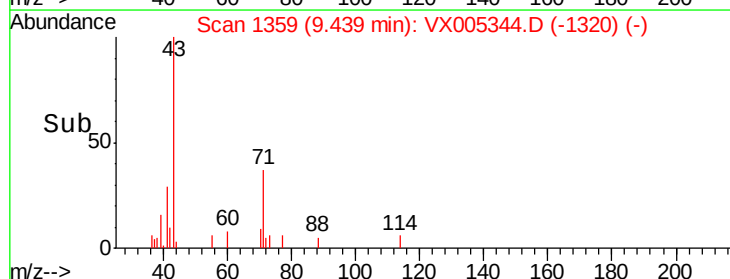
1500

1000

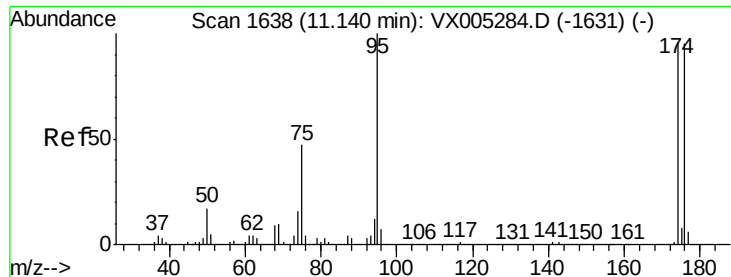
500

0

9.42 9.44 9.46 9.48



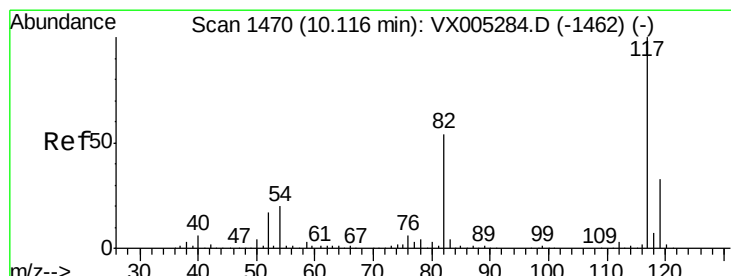
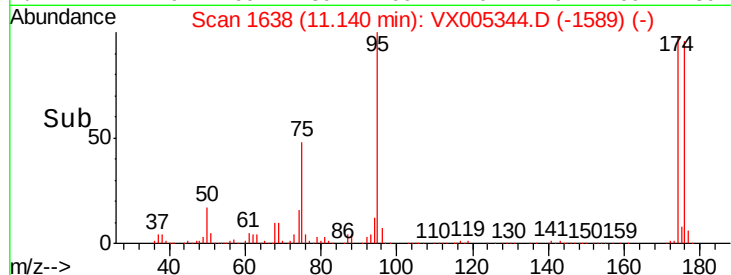
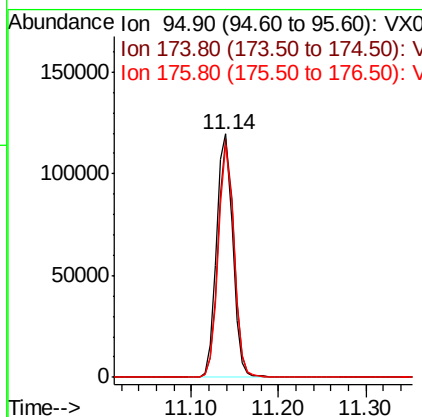
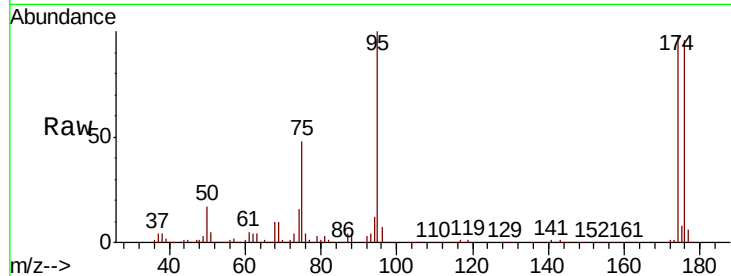
Time-->



#62
4-Bromofluorobenzene
Concen: 46.132 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005344.D
Acq: 15 Oct 2018 15:28

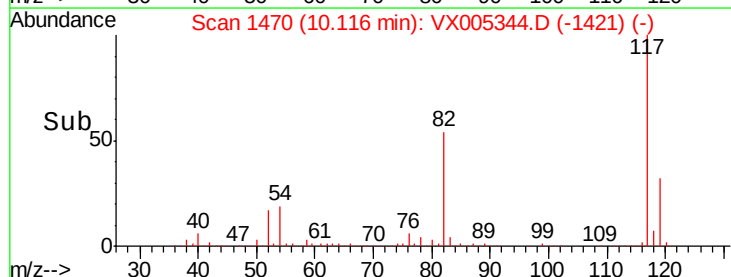
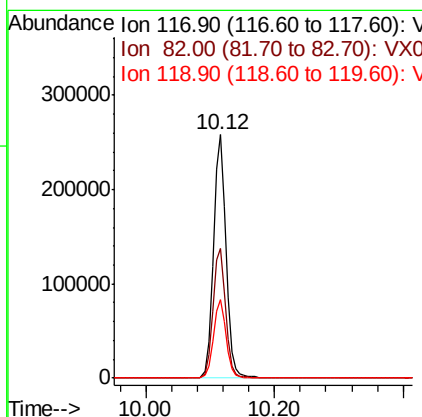
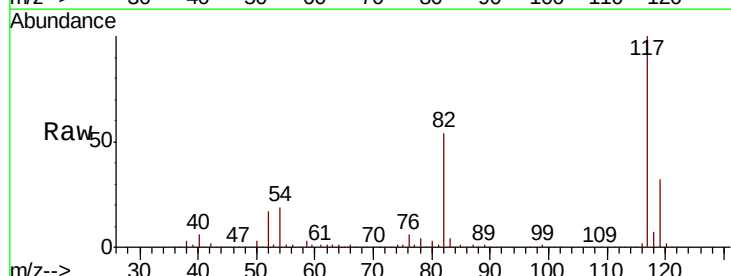
Instrument :
MSVOA_X
ClientSampleId :

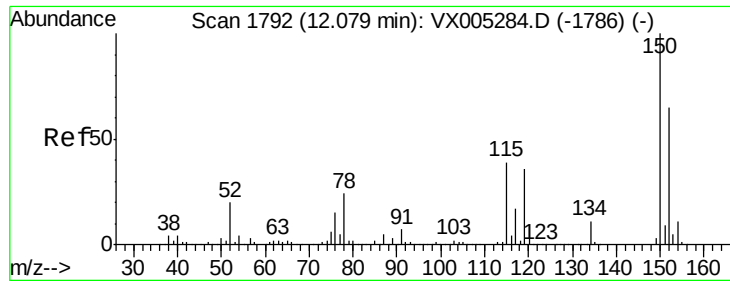
Tot Ion: 95 Resp: 152932
Ion Ratio Lower Upper
95 100
174 95.7 0.0 185.2
176 92.2 0.0 178.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005344.D
Acq: 15 Oct 2018 15:28

Tgt Ion: 117 Resp: 355704
Ion Ratio Lower Upper
117 100
82 53.5 47.8 71.6
119 32.0 29.3 43.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005344.D

Acq: 15 Oct 2018 15:28

Instrument :

MSVOA_X

ClientSampled :

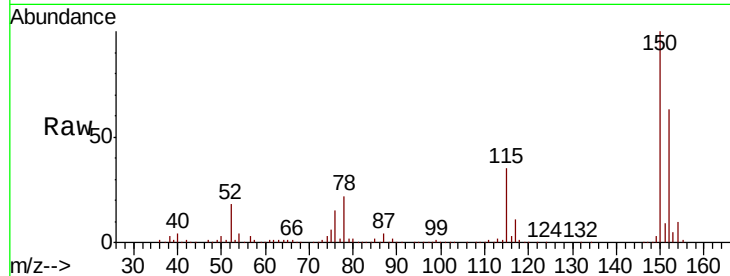
Tot Ion:152 Resp: 168140

Ion Ratio Lower Upper

152 100

115 54.8 39.0 117.0

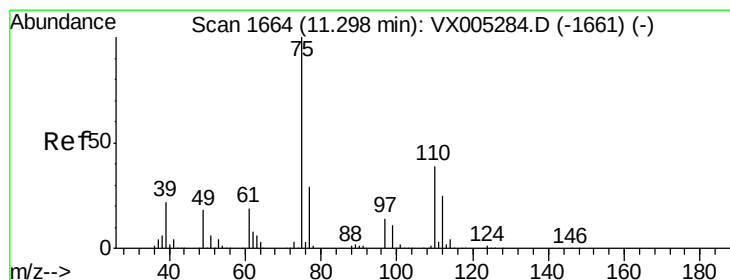
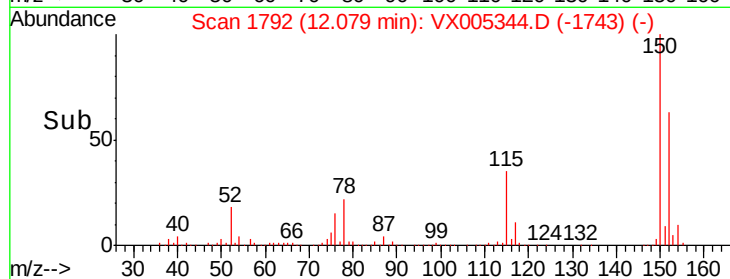
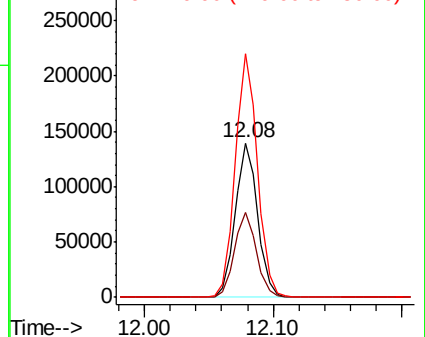
150 157.8 0.0 351.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.979 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005344.D

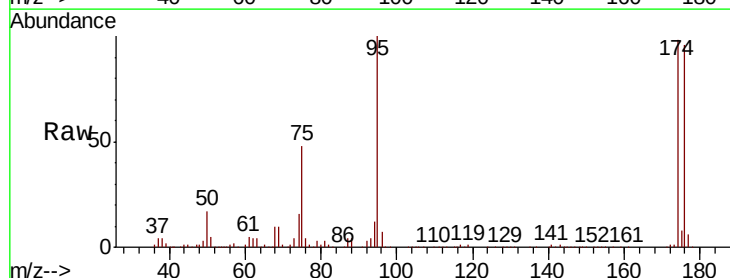
Acq: 15 Oct 2018 15:28

Tgt Ion: 75 Resp: 74943

Ion Ratio Lower Upper

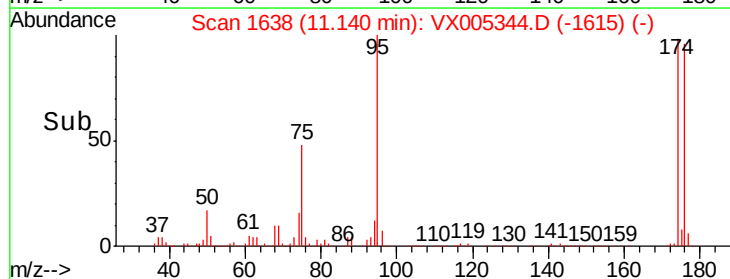
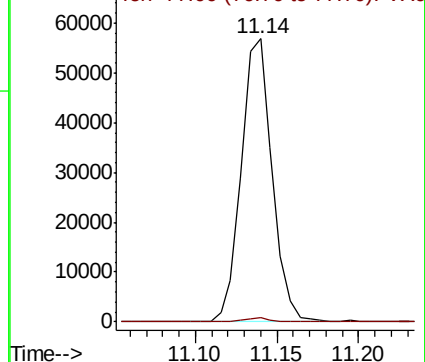
75 100

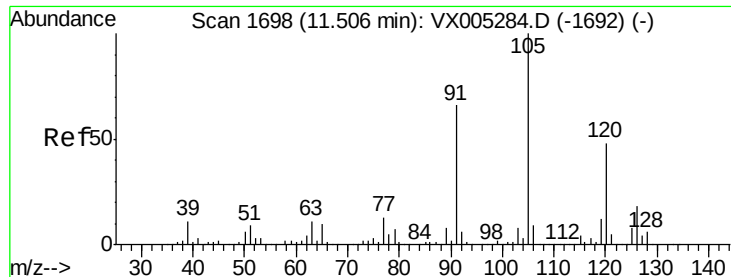
77 1.4 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

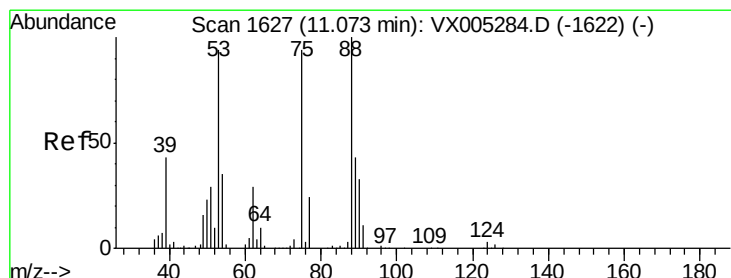
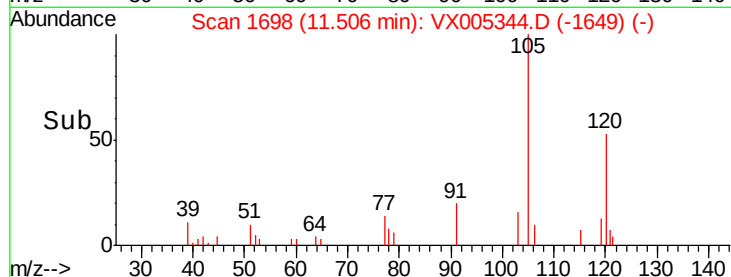
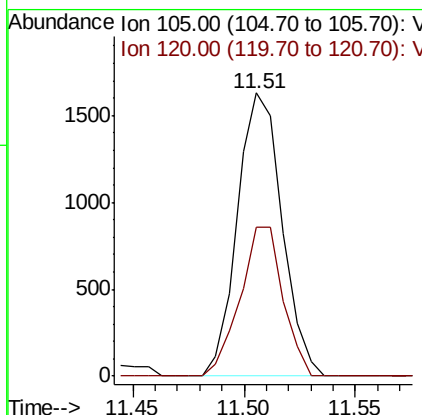
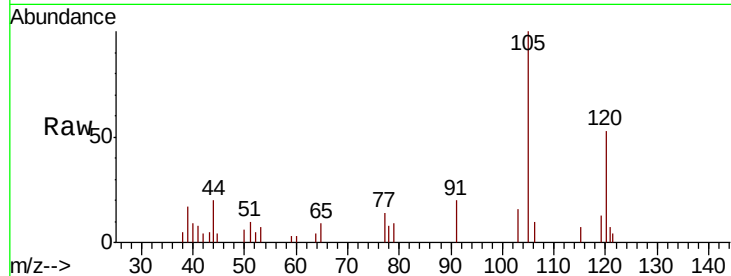




#80
 1,3,5-Trimethylbenzene
 Concen: 0.266 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX005344.D
 Acq: 15 Oct 2018 15:28

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:105 Resp: 2276
 Ion Ratio Lower Upper
 105 100
 120 50.7 25.6 76.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.820 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.07 min
 Lab File: VX005344.D
 Acq: 15 Oct 2018 15:28

Tgt Ion: 75 Resp: 74943
 Ion Ratio Lower Upper
 75 100
 53 0.3 80.1 120.1#
 89 0.0 37.2 55.8#

