

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101518\
 Data File : VX005335.D
 Acq On : 15 Oct 2018 11:28
 Operator : JC/MD
 Sample : J5459-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-SAMPLE-MANA

Quant Time: Oct 16 03:34:03 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	291462	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	397095	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	353430	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	169271	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	163240	50.46	ug/l	0.00
Spiked Amount			Recovery	=	100.92%	
35) Dibromofluoromethane	5.50	113	136405	51.86	ug/l	0.00
Spiked Amount			Recovery	=	103.72%	
50) Toluene-d8	8.72	98	471685	52.24	ug/l	0.00
Spiked Amount			Recovery	=	104.48%	
62) 4-Bromofluorobenzene	11.14	95	153170	45.16	ug/l	0.00
Spiked Amount			Recovery	=	90.32%	

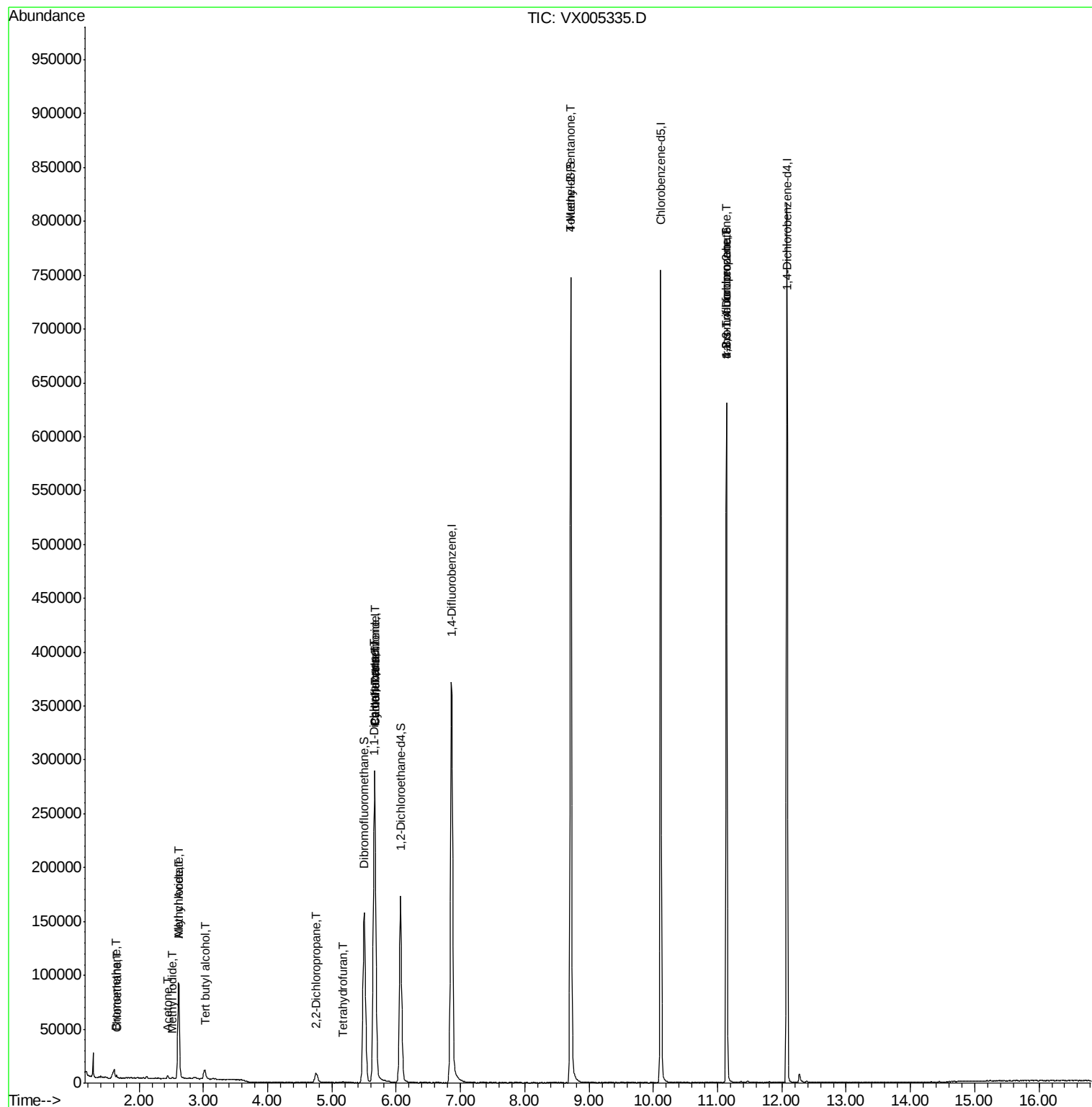
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	528	0.860	ug/l #	46
6) Chloroethane	1.67	64	65	0.364	ug/l #	3
10) Methyl Iodide	2.51	142	390	2.620	ug/l #	89
11) Tert butyl alcohol	3.03	59	5592	6.128	ug/l #	72
13) Acrolein	2.30	56	295	Below Cal	#	34
14) Allyl chloride	2.61	41	8914	1.590	ug/l #	65
16) Acetone	2.45	43	2450	1.310	ug/l	95
18) Methyl Acetate	2.61	43	22978	4.318	ug/l #	51
20) Methylene Chloride	2.85	84	732	Below Cal		88
26) 2,2-Dichloropropane	4.74	77	880	0.218	ug/l #	52
29) Tetrahydrofuran	5.17	42	703	0.403	ug/l #	40
31) Cyclohexane	5.66	56	5152	1.159	ug/l #	21
36) 1,1-Dichloropropene	5.65	75	19704	5.123	ug/l #	45
38) Carbon Tetrachloride	5.67	117	25980	6.723	ug/l #	15
44) Trichloroethene	7.21	130	209	Below Cal		95
51) 4-Methyl-2-Pentanone	8.72	43	1938	0.425	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	74899	22.812	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	74899	69.313	ug/l #	10

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX005335.D

Acq: 15 Oct 2018 11:28

Instrument :

MSVOA_X

ClientSampleId :

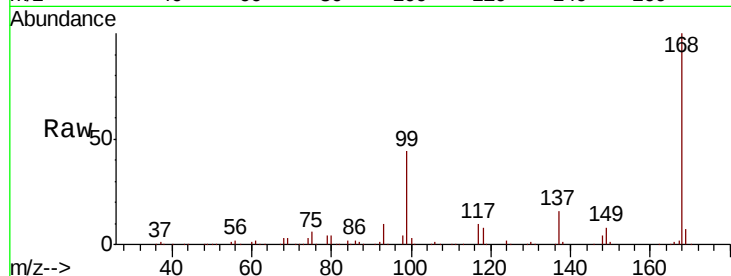
STORAGE-BLANK-SAMPLE-MANA

Tot Ion:168 Resp: 291462

Ion Ratio Lower Upper

168 100

99 43.9 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

120000

100000

80000

60000

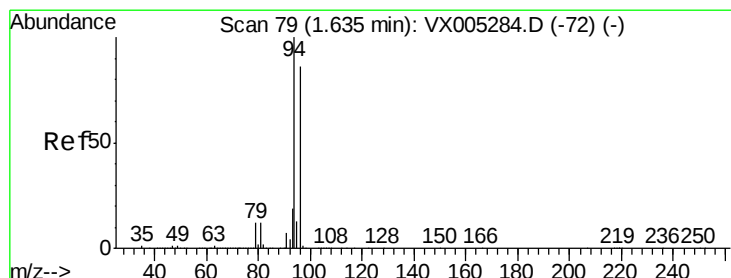
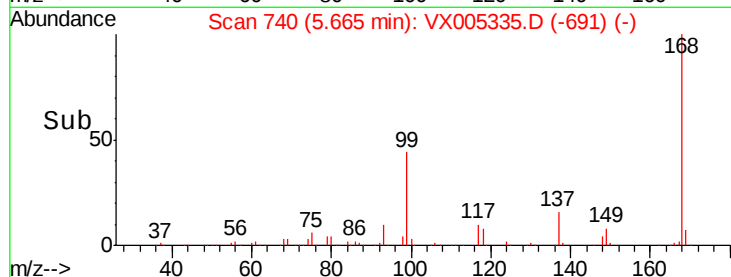
40000

20000

0

Time-->

5.60 5.70 5.80



#5

Bromomethane

Concen: 0.860 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX005335.D

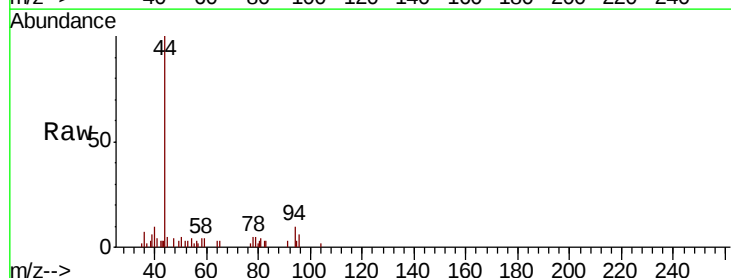
Acq: 15 Oct 2018 11:28

Tgt Ion: 94 Resp: 528

Ion Ratio Lower Upper

94 100

96 41.2 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

300

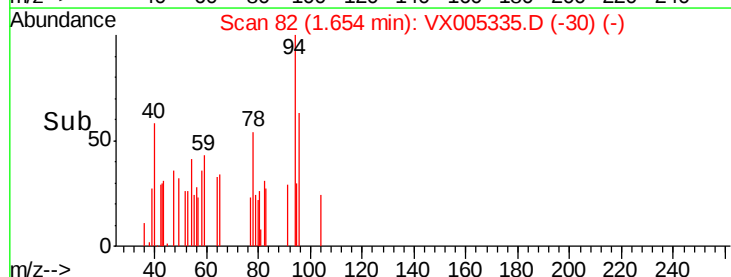
200

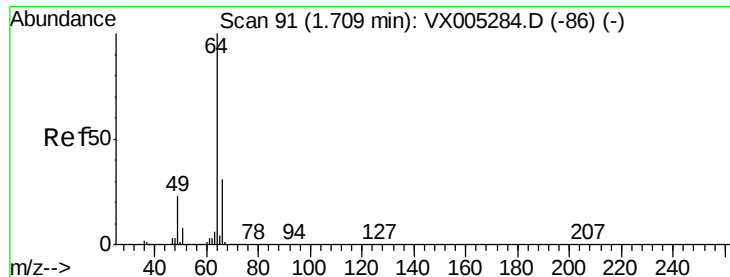
100

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: 0.364 ug/l

RT: 1.67 min Scan# 84

Delta R.T. -0.04 min

Lab File: VX005335.D

Acq: 15 Oct 2018 11:28

Instrument :

MSVOA_X

ClientSampleId :

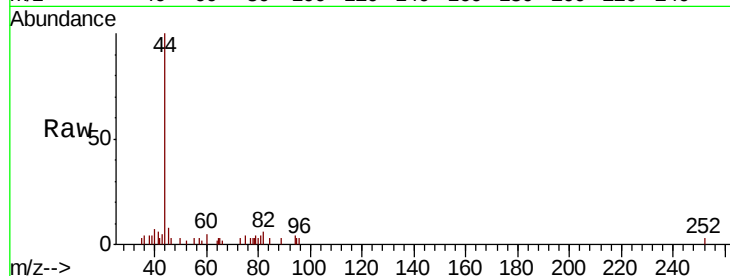
STORAGE-BLANK-SAMPLE-MANA

Tot Ion: 64 Resp: 65

Ion Ratio Lower Upper

64 100

66 83.8 24.6 36.8#



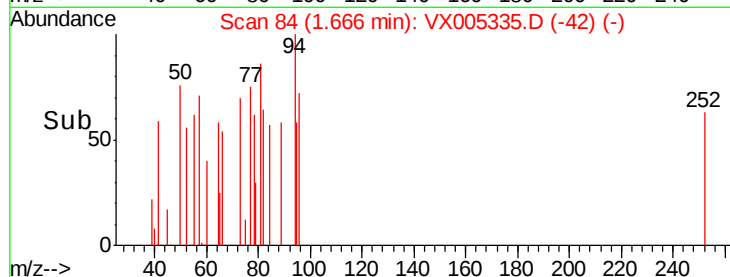
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

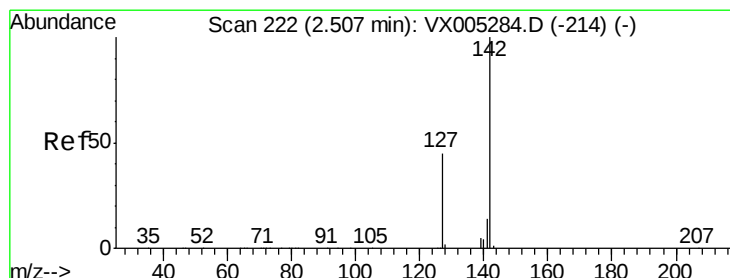
1.67

1.68

1.69



Time-->



#10

Methyl Iodide

Concen: 2.620 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX005335.D

Acq: 15 Oct 2018 11:28

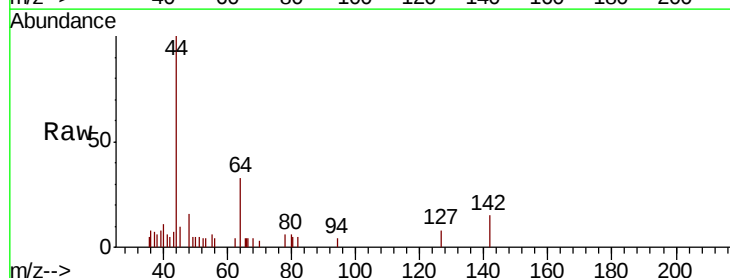
Tgt Ion: 142 Resp: 390

Ion Ratio Lower Upper

142 100

127 44.1 33.8 50.6

141 0.0 11.4 17.0#



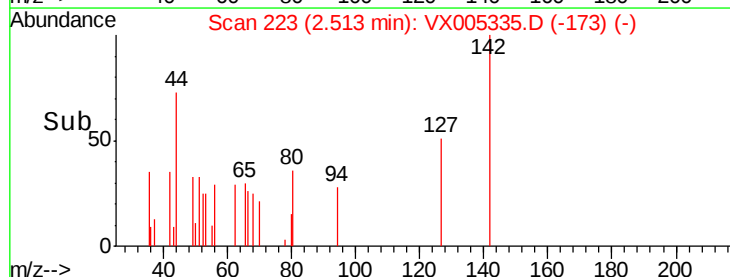
Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

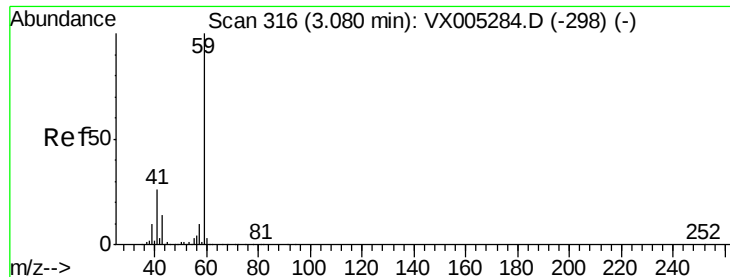
Ion 140.80 (140.50 to 141.50): V

2.51

2.55



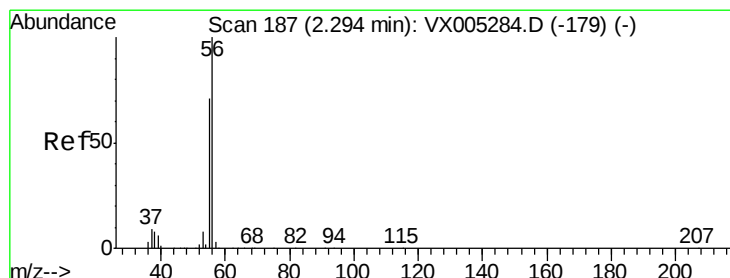
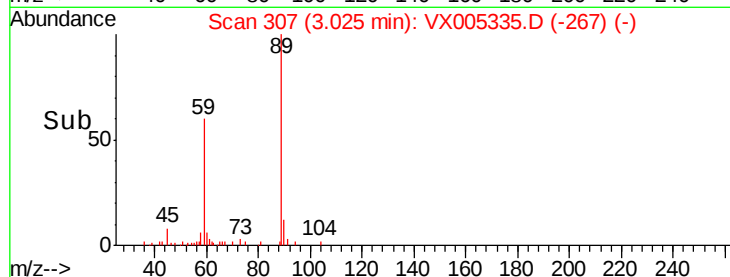
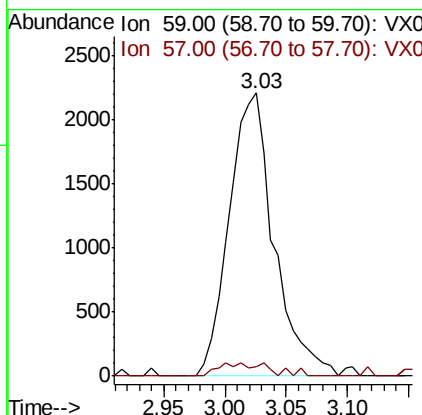
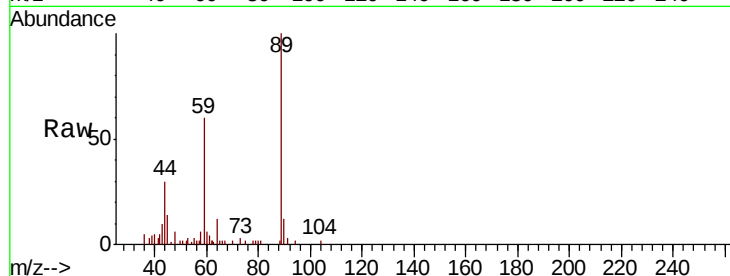
Time-->



#11
Tert butyl alcohol
Concen: 6.128 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.05 min
Lab File: VX005335.D
Acq: 15 Oct 2018 11:28

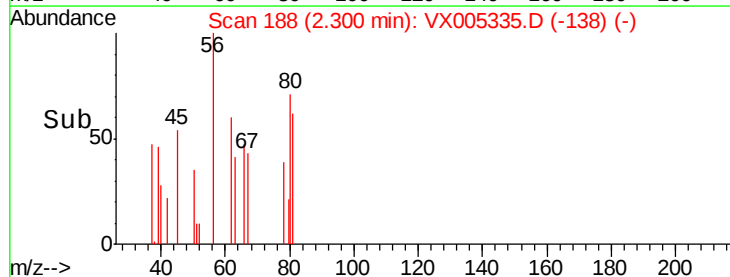
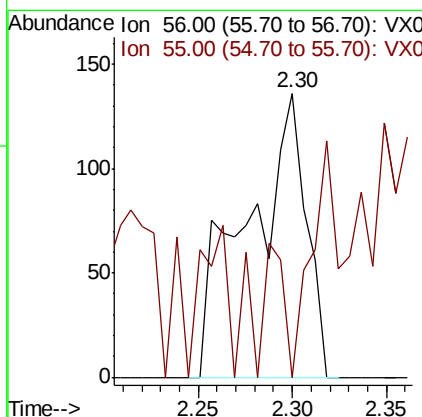
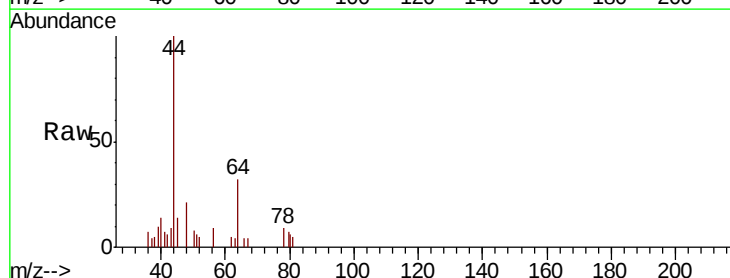
Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-SAMPLE-MANA

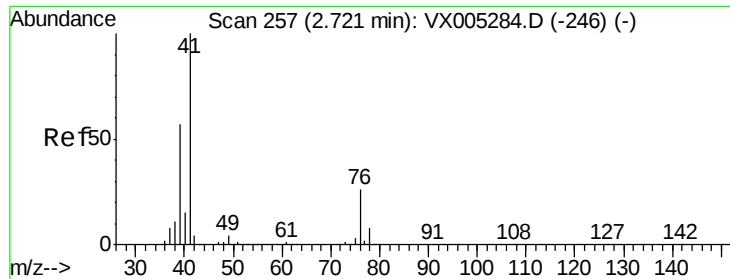
Tot Ion: 59 Resp: 5592
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: Below Cal
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX005335.D
Acq: 15 Oct 2018 11:28

Tgt Ion: 56 Resp: 295
Ion Ratio Lower Upper
56 100
55 14.9 54.7 82.1#





#14

Allvl chloride

Concen: 1.590 ug/l

RT: 2.61 min Scan# 239

Delta R.T. -0.11 min

Lab File: VX005335.D

Acq: 15 Oct 2018 11:28

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SAMPLE-MANA

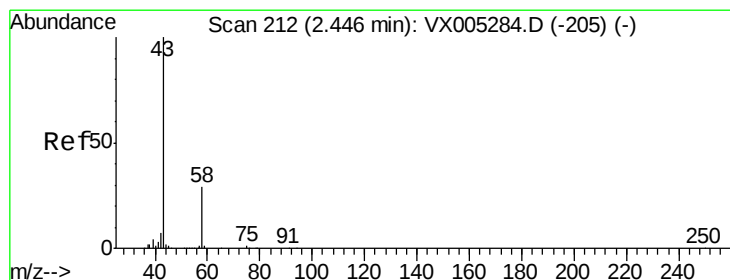
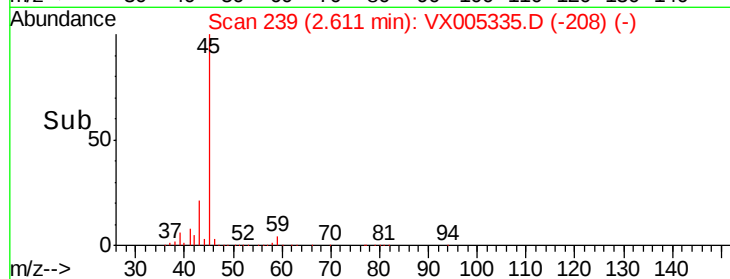
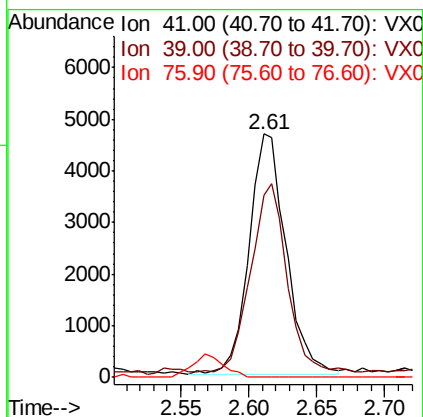
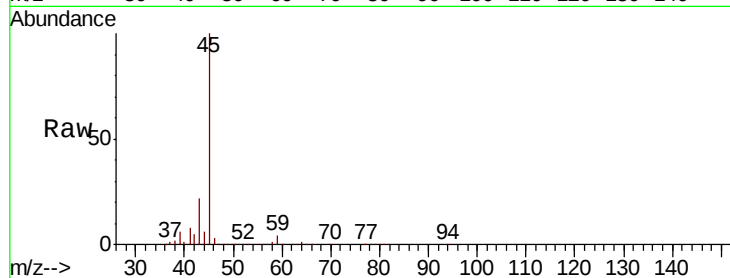
Tot Ion: 41 Resp: 8914

Ion Ratio Lower Upper

41 100

39 77.7 48.9 73.3#

76 0.0 26.7 40.1#



#16

Acetone

Concen: 1.310 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005335.D

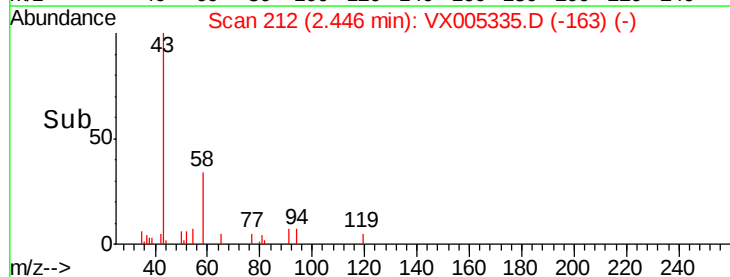
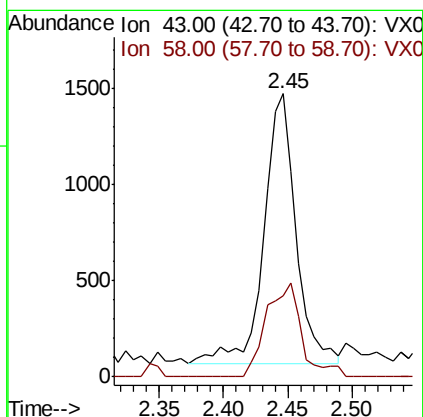
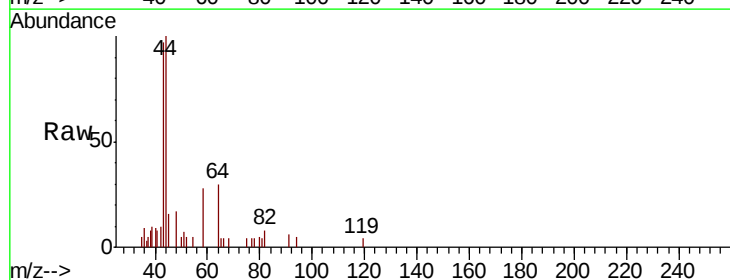
Acq: 15 Oct 2018 11:28

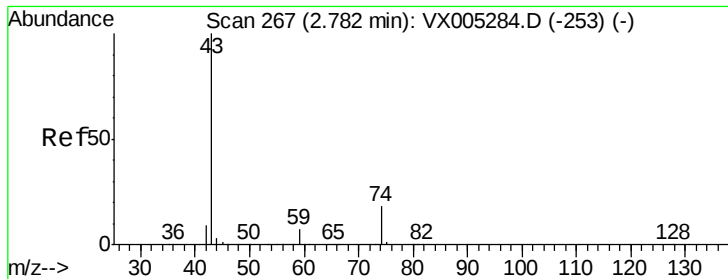
Tgt Ion: 43 Resp: 2450

Ion Ratio Lower Upper

43 100

58 30.1 26.2 39.4

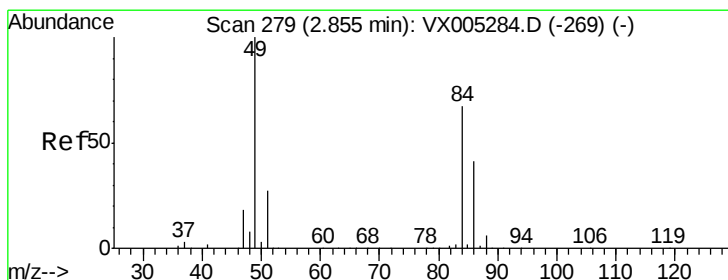
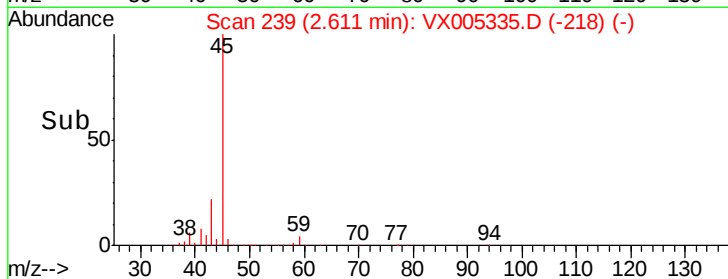
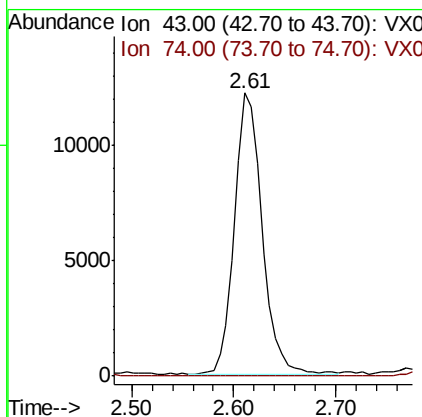
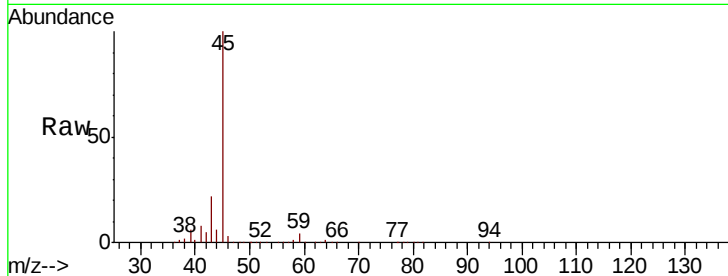




#18
Methyl Acetate
Concen: 4.318 ug/l
RT: 2.61 min Scan# 239
Delta R.T. -0.17 min
Lab File: VX005335.D
Acq: 15 Oct 2018 11:28

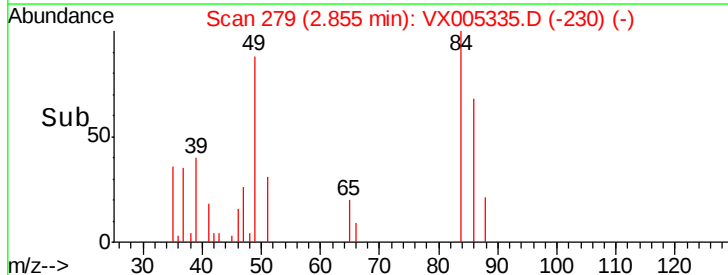
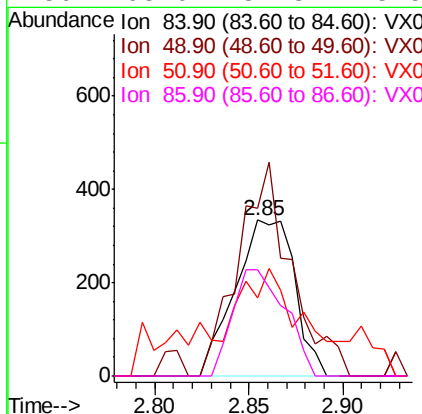
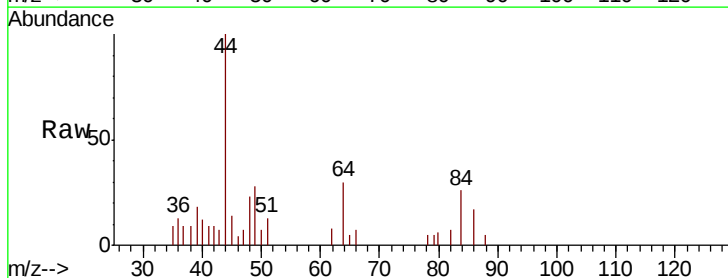
Instrument :
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STORAGE-BLANK-SAMPLE-MANA

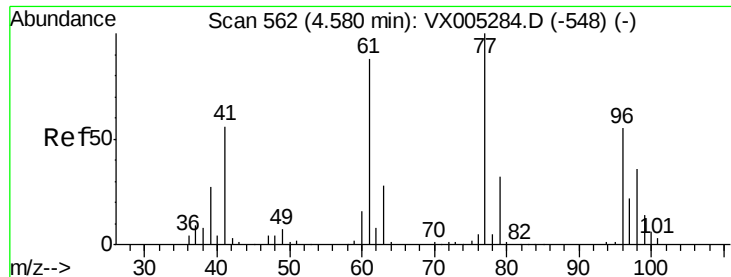
Tot Ion: 43 Resp: 22978
Ion Ratio Lower Upper
43 100
74 0.0 19.4 29.2#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX005335.D
Acq: 15 Oct 2018 11:28

Tgt Ion: 84 Resp: 732
Ion Ratio Lower Upper
84 100
49 107.8 101.2 151.8
51 30.2 29.5 44.3
86 68.0 52.3 78.5





#26

2,2-Dichloropropane

Concen: 0.218 ug/l

RT: 4.74 min Scan# 589

Delta R.T. 0.16 min

Lab File: VX005335.D

Acq: 15 Oct 2018 11:28

Instrument :

MSVOA_X

ClientSampleId :

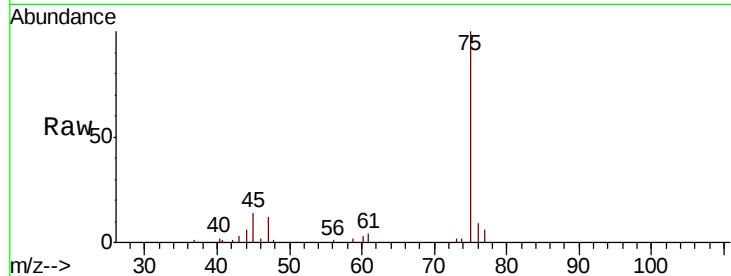
STORAGE-BLANK-SAMPLE-MANA

Tot Ion: 77 Resp: 880

Ion Ratio Lower Upper

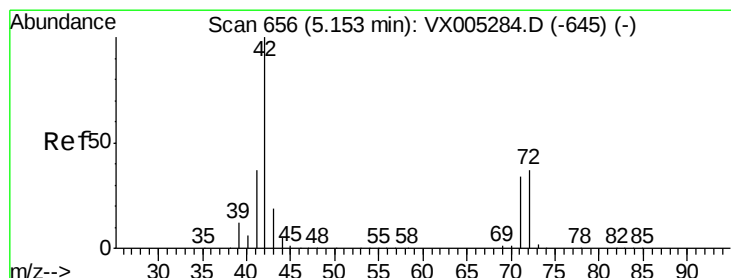
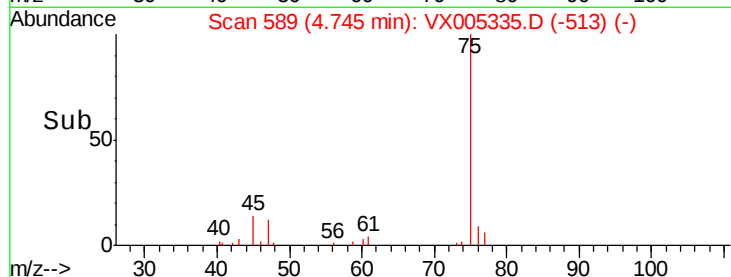
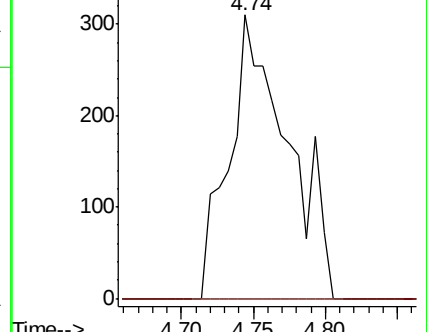
77 100

97 0.0 11.7 35.0#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0



#29

Tetrahydrofuran

Concen: 0.403 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX005335.D

Acq: 15 Oct 2018 11:28

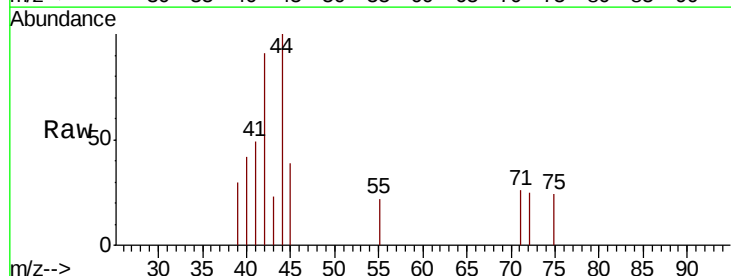
Tgt Ion: 42 Resp: 703

Ion Ratio Lower Upper

42 100

72 11.1 37.4 56.0#

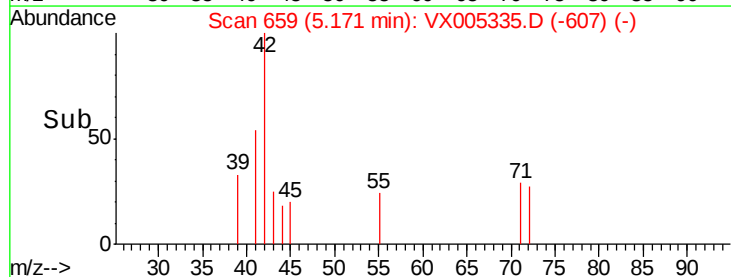
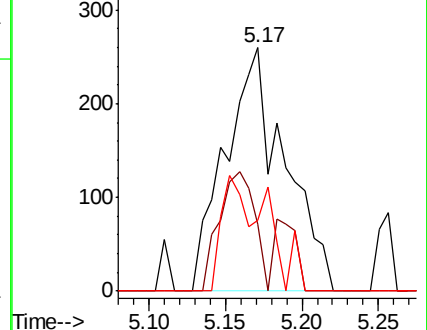
71 0.0 34.5 51.7#

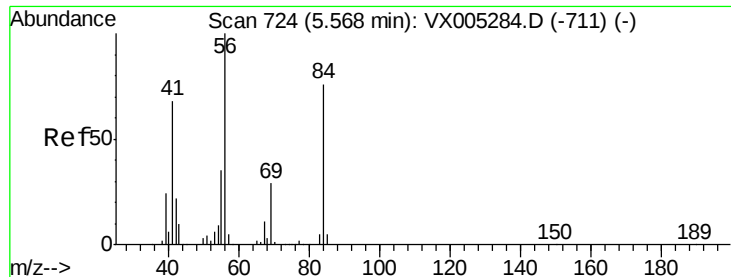


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

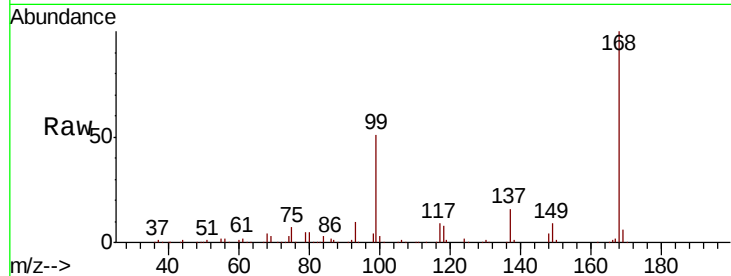




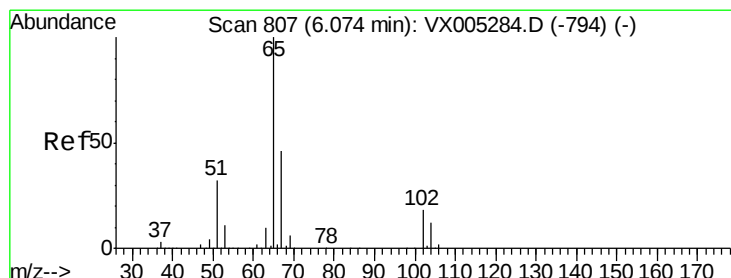
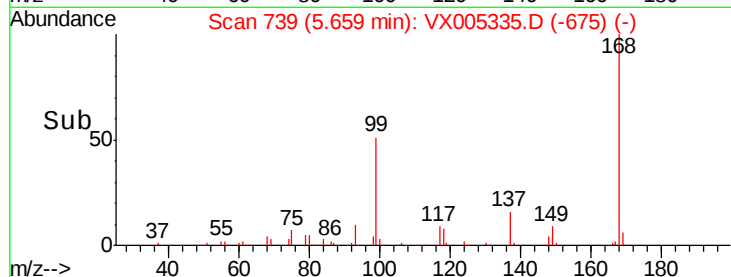
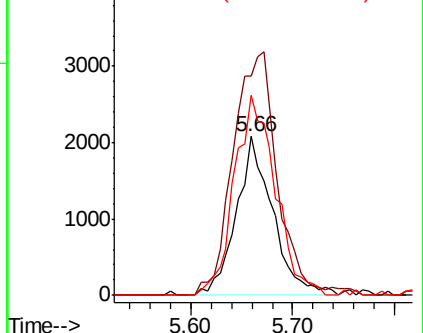
#31
Cyclohexane
Concen: 1.159 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX005335.D
Acq: 15 Oct 2018 11:28

Instrument :
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STORAGE-BLANK-SAMPLE-MANA

Tot Ion: 56 Resp: 5152
Ion Ratio Lower Upper
56 100
69 138.1 25.4 38.2#
84 125.6 71.4 107.2#

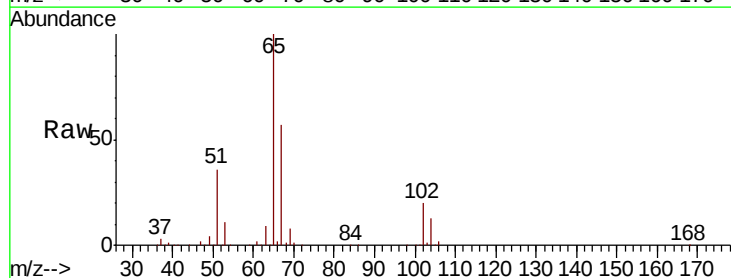


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

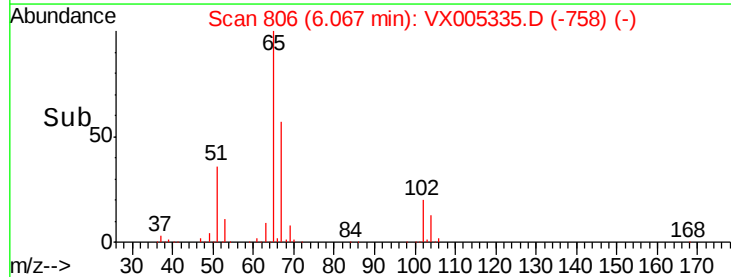
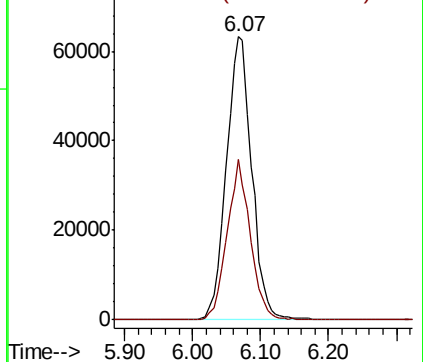


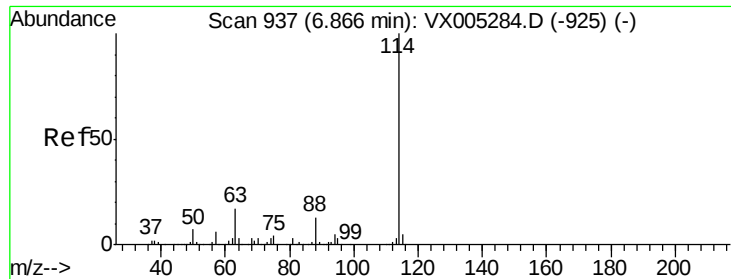
#33
1,2-Dichloroethane-d4
Concen: 50.464 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.01 min
Lab File: VX005335.D
Acq: 15 Oct 2018 11:28

Tgt Ion: 65 Resp: 163240
Ion Ratio Lower Upper
65 100
67 51.7 0.0 106.8



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# 936

Delta R.T. -0.01 min

Lab File: VX005335.D

Acq: 15 Oct 2018 11:28

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SAMPLE-MANA

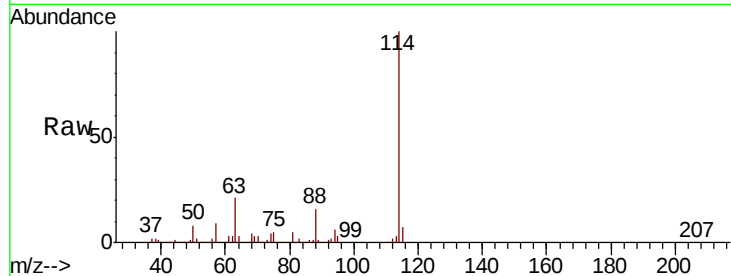
Tot Ion:114 Resp: 397095

Ion Ratio Lower Upper

114 100

63 20.6 0.0 39.0

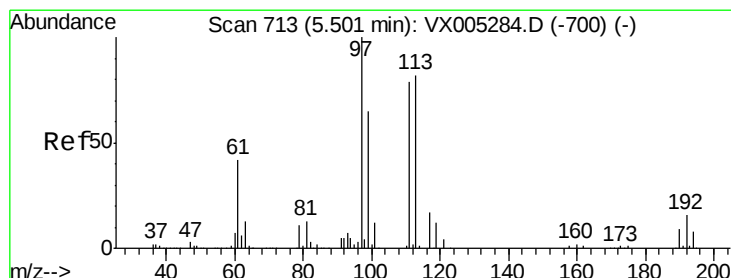
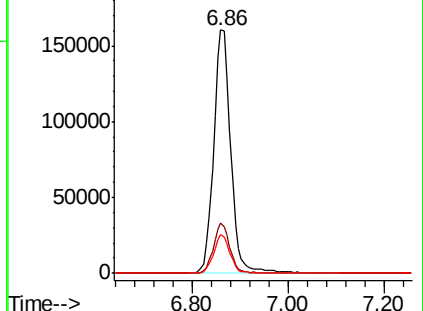
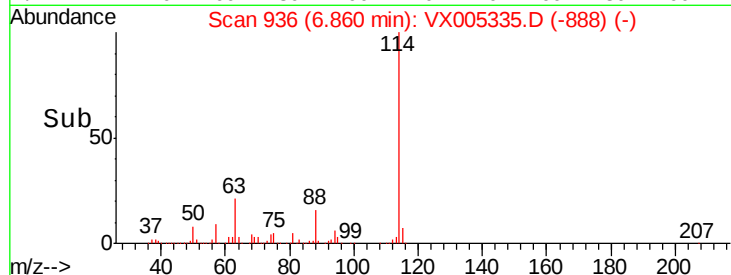
88 15.9 0.0 30.4



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: 51.864 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX005335.D

Acq: 15 Oct 2018 11:28

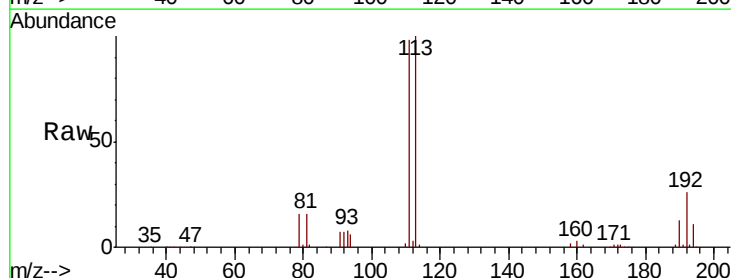
Tgt Ion:113 Resp: 136405

Ion Ratio Lower Upper

113 100

111 98.8 82.4 123.6

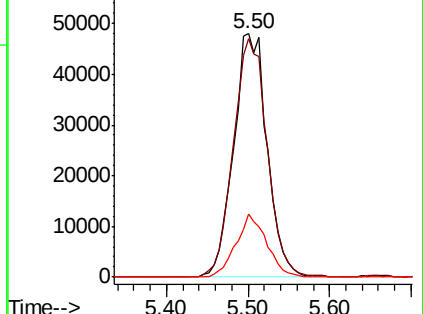
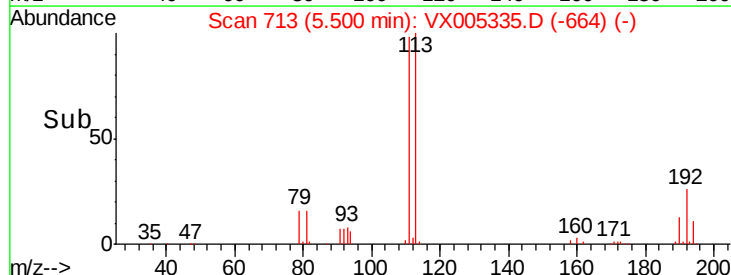
192 23.7 19.4 29.2

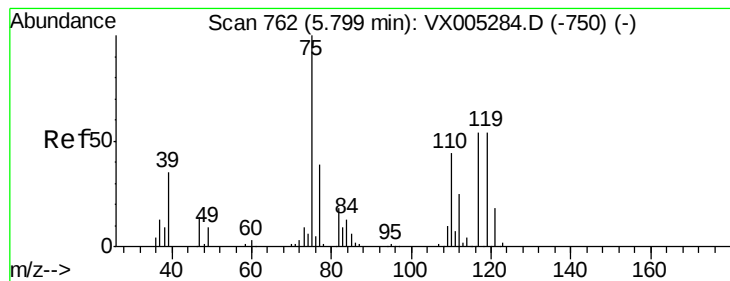


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.123 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.15 min

Lab File: VX005335.D

Acq: 15 Oct 2018 11:28

Instrument :

MSVOA_X

ClientSampleId :

STORAGE-BLANK-SAMPLE-MANA

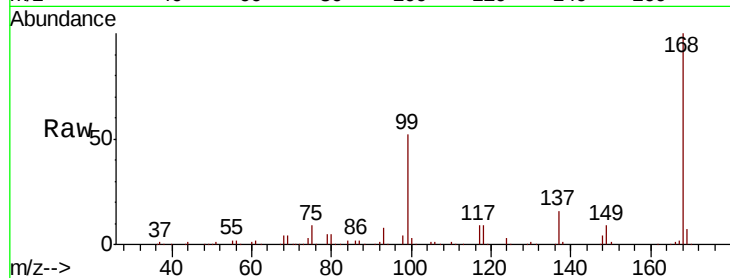
Tot Ion: 75 Resp: 19704

Ion Ratio Lower Upper

75 100

110 4.2 18.0 54.0#

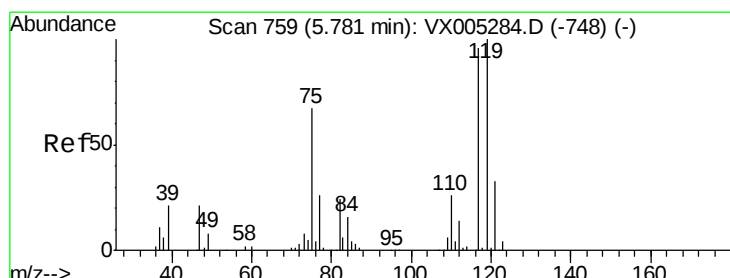
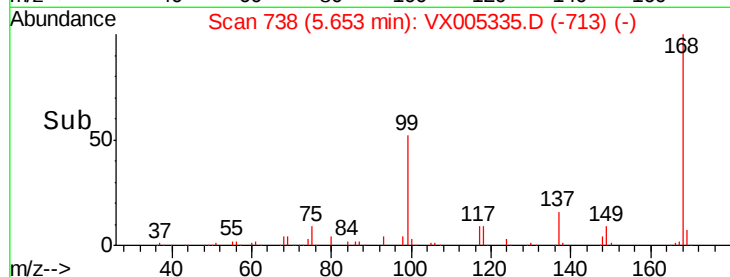
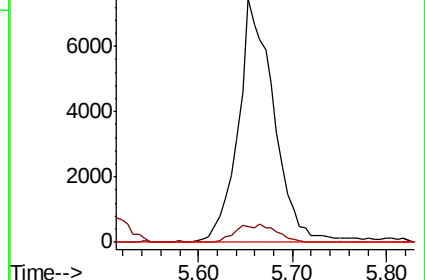
77 0.0 24.6 36.8#



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: 6.723 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005335.D

Acq: 15 Oct 2018 11:28

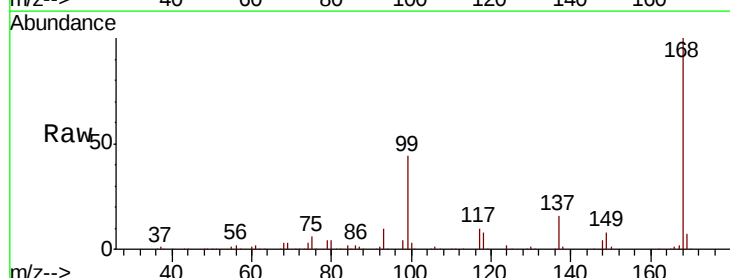
Tgt Ion:117 Resp: 25980

Ion Ratio Lower Upper

117 100

119 5.1 78.8 118.2#

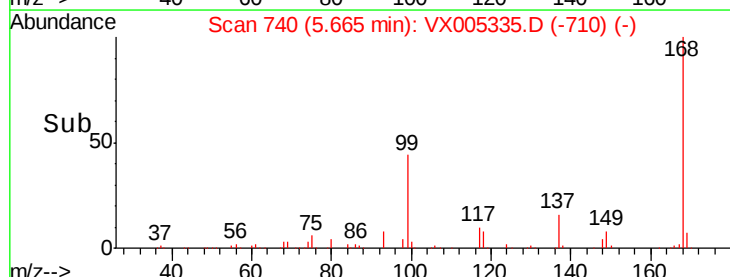
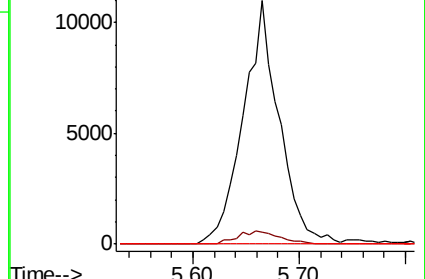
121 0.0 24.9 37.3#

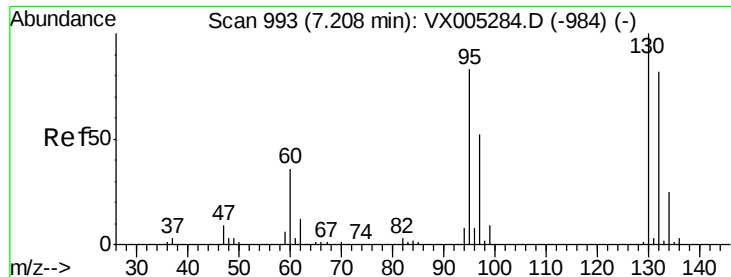


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: Below Cal

RT: 7.21 min Scan# 994

Delta R.T. 0.01 min

Lab File: VX005335.D

Acq: 15 Oct 2018 11:28

Instrument :

MSVOA_X

ClientSampleId :

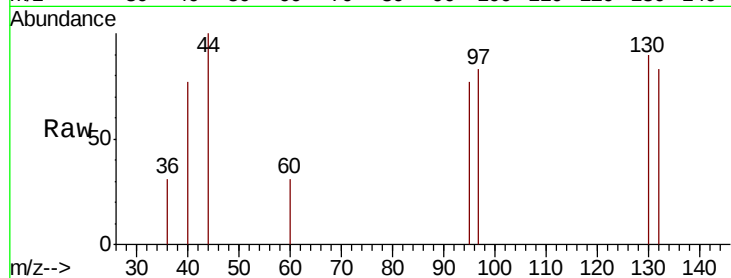
STORAGE-BLANK-SAMPLE-MANA

Tot Ion:130 Resp: 209

Ion Ratio Lower Upper

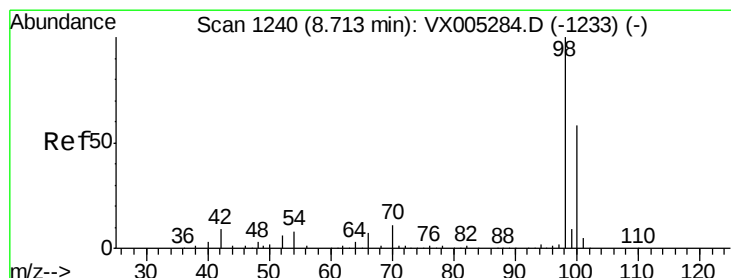
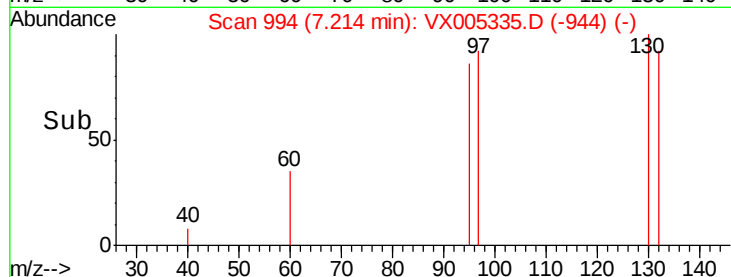
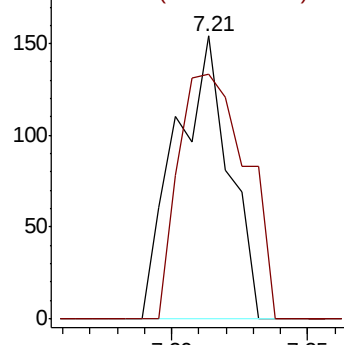
130 100

95 86.4 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 52.240 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.01 min

Lab File: VX005335.D

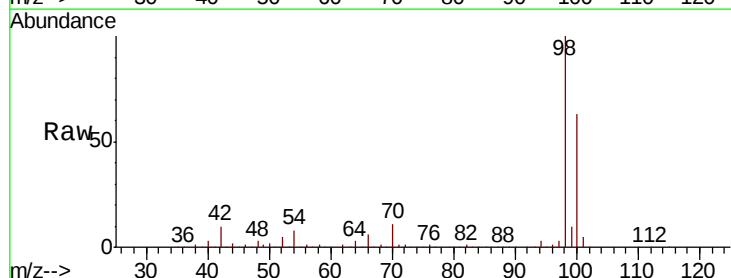
Acq: 15 Oct 2018 11:28

Tgt Ion: 98 Resp: 471685

Ion Ratio Lower Upper

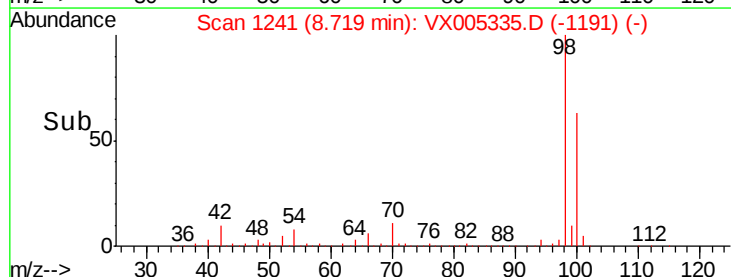
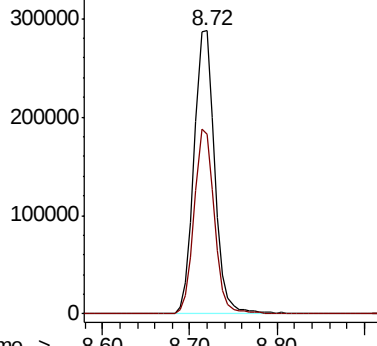
98 100

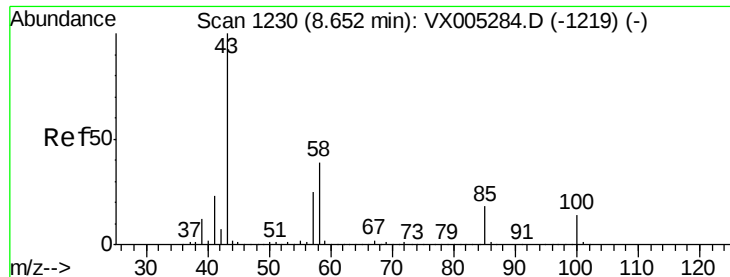
100 64.1 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.425 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.07 min

Lab File: VX005335.D

Acq: 15 Oct 2018 11:28

Instrument :

MSVOA_X

ClientSampleId :

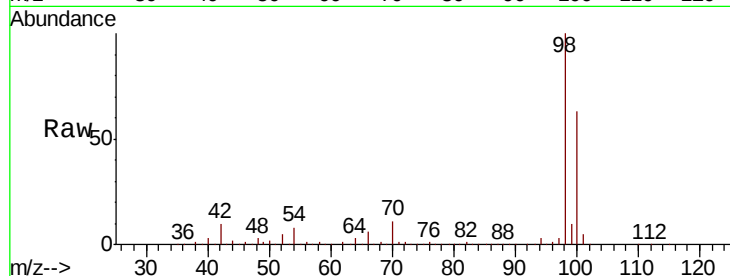
STORAGE-BLANK-SAMPLE-MANA

Tot Ion: 43 Resp: 1938

Ion Ratio Lower Upper

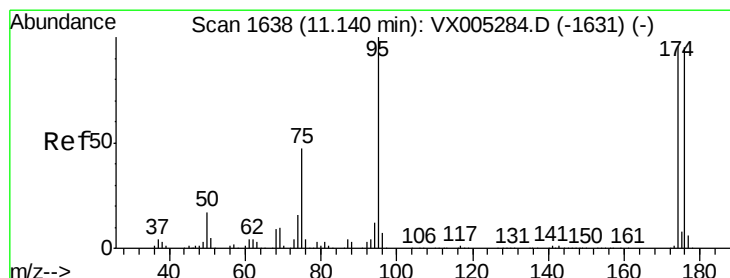
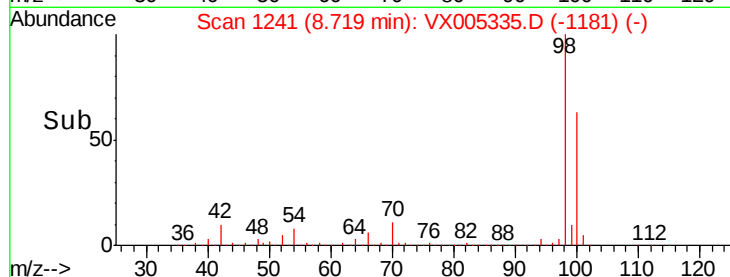
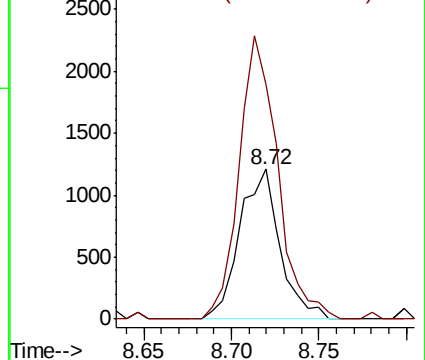
43 100

58 180.8 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 45.157 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005335.D

Acq: 15 Oct 2018 11:28

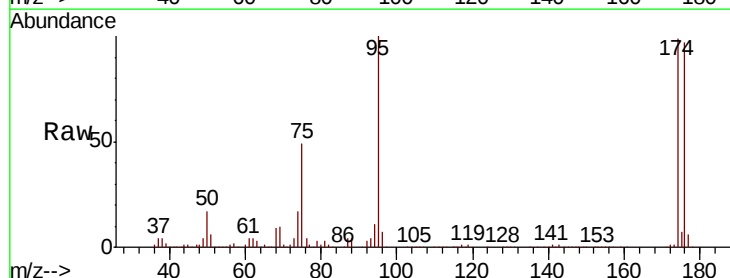
Tgt Ion: 95 Resp: 153170

Ion Ratio Lower Upper

95 100

174 96.3 0.0 185.2

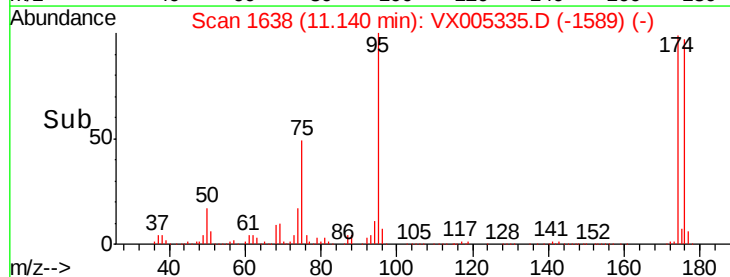
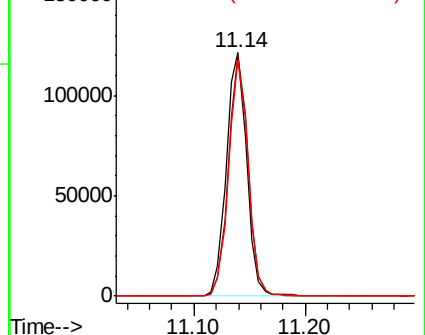
176 92.6 0.0 178.6

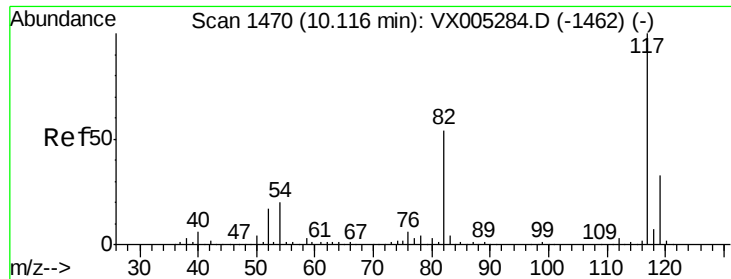


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

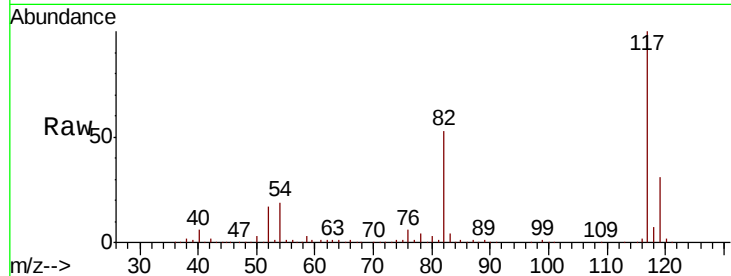




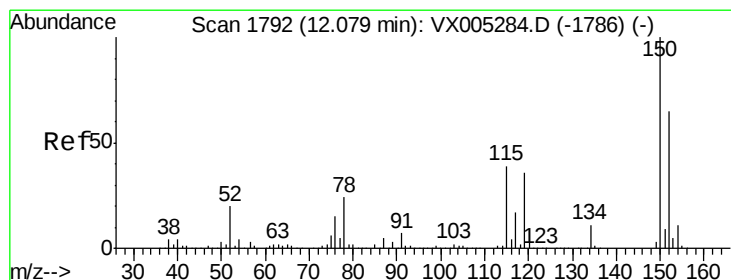
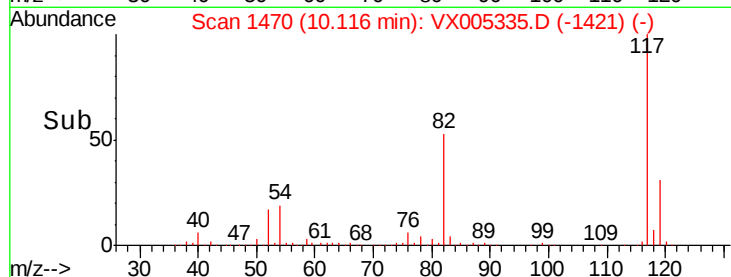
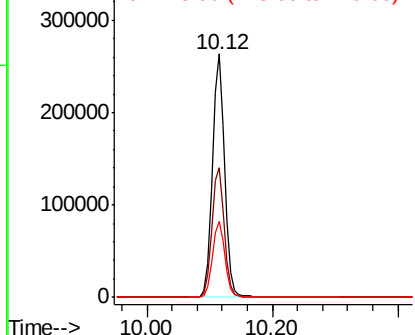
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005335.D
Acq: 15 Oct 2018 11:28

Instrument :
MSVOA_X
ClientSampleId :
STORAGE-BLANK-SAMPLE-MANA

Tot Ion:117 Resp: 353430
Ion Ratio Lower Upper
117 100
82 53.1 47.8 71.6
119 31.1 29.3 43.9

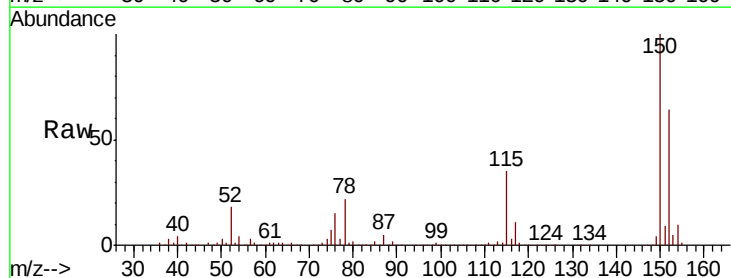


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

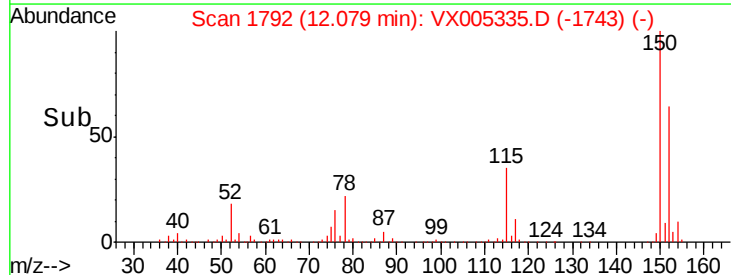
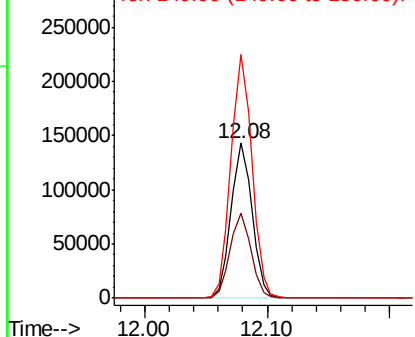


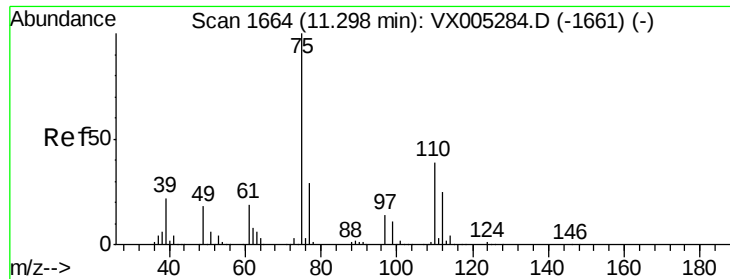
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005335.D
Acq: 15 Oct 2018 11:28

Tgt Ion:152 Resp: 169271
Ion Ratio Lower Upper
152 100
115 55.0 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

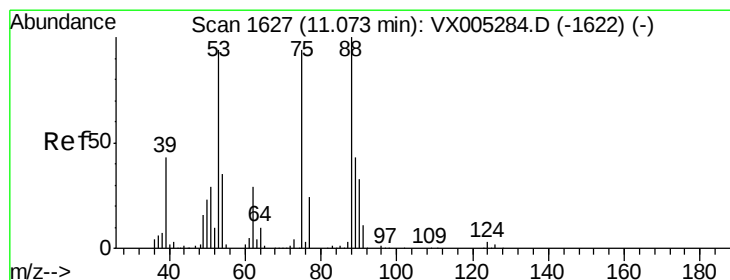
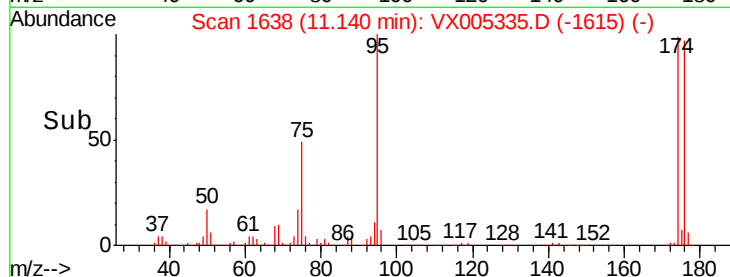
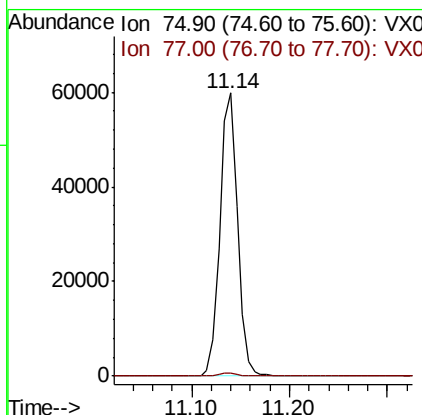
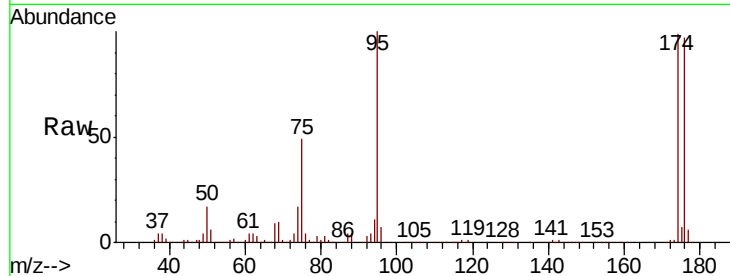




#76
 1,2,3-Trichloropropane
 Concen: 22.812 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.16 min
 Lab File: VX005335.D
 Acq: 15 Oct 2018 11:28

Instrument :
 MSVOA_X
 ClientSampleId :
 STORAGE-BLANK-SAMPLE-MANA

Tot Ion: 75 Resp: 74899
 Ion Ratio Lower Upper
 75 100
 77 1.2 20.2 60.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.313 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.07 min
 Lab File: VX005335.D
 Acq: 15 Oct 2018 11:28

Tgt Ion: 75 Resp: 74899
 Ion Ratio Lower Upper
 75 100
 53 0.3 80.1 120.1#
 89 0.0 37.2 55.8#

