

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100118\
 Data File : VX004891.D
 Acq On : 02 Oct 2018 01:17
 Operator : JC/MD
 Sample : J5155-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 QNWP8-EQUIP-BLANK

Quant Time: Oct 02 03:37:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 26 14:17:02 2018
 Response via : Initial Calibration

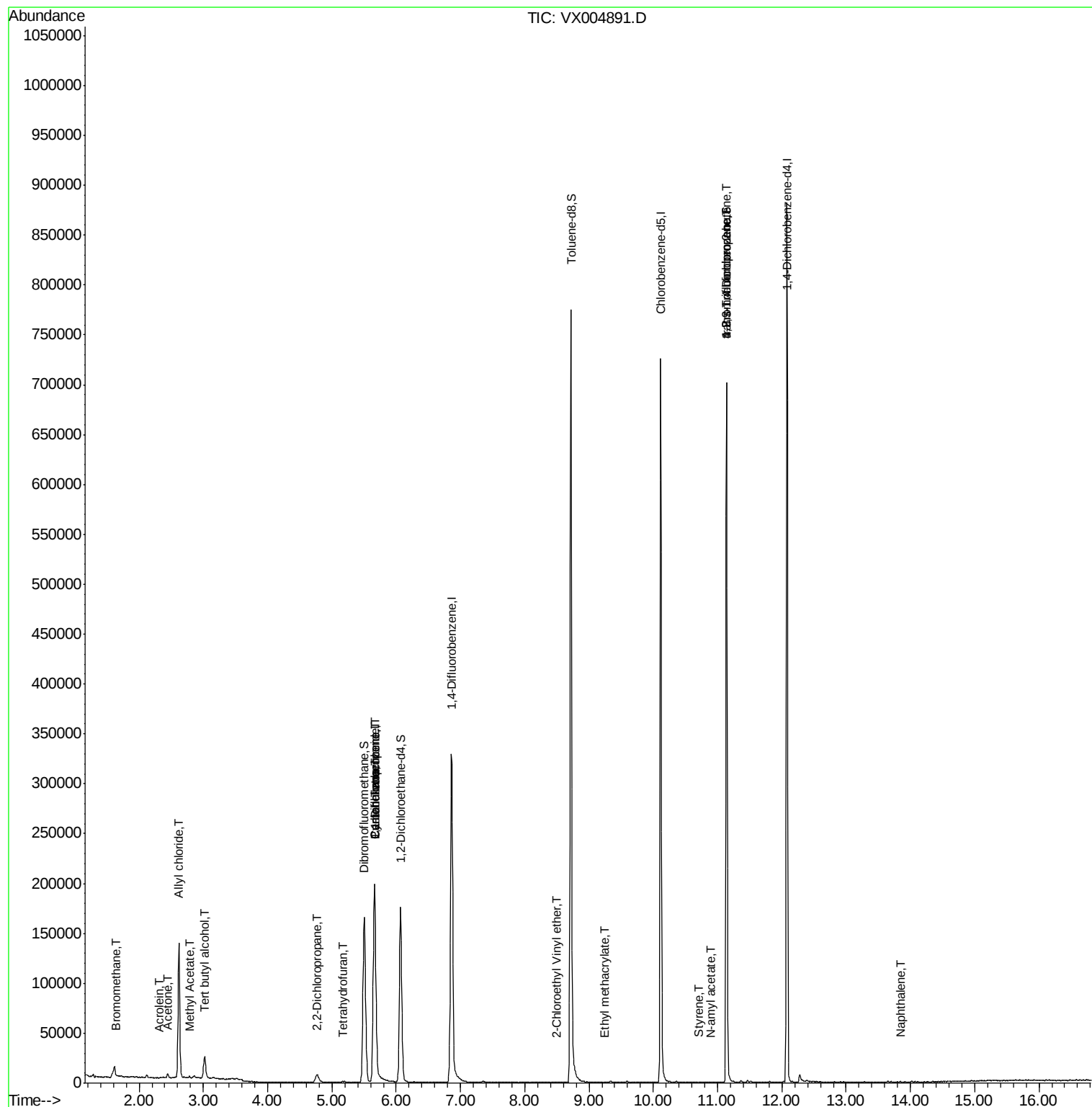
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	212302	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	345837	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	338575	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	180787	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	167546	55.25	ug/l	0.00
Spiked Amount 50.000			Recovery	=	110.50%	
35) Dibromofluoromethane	5.51	113	141361	48.23	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.46%	
50) Toluene-d8	8.72	98	507930	52.13	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.26%	
62) 4-Bromofluorobenzene	11.14	95	175104	49.88	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.76%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.64	94	618	0.316	ug/l	92
6) Chloroethane	1.65	64	1318	Below Cal	#	51
11) Tert butyl alcohol	3.02	59	13694	16.149	ug/l #	74
13) Acrolein	2.32	56	327	0.542	ug/l #	16
14) Allyl chloride	2.62	41	12950	2.580	ug/l #	61
16) Acetone	2.45	43	4451	2.514	ug/l	99
18) Methyl Acetate	2.78	43	1352	0.301	ug/l	97
20) Methylene Chloride	2.85	84	1239	Below Cal	#	87
26) 2,2-Dichloropropane	4.76	77	779	0.222	ug/l #	52
29) Tetrahydrofuran	5.17	42	749	0.462	ug/l #	55
31) Cyclohexane	5.67	56	4246	1.100	ug/l #	6
36) 1,1-Dichloropropene	5.67	75	14970	3.743	ug/l #	49
38) Carbon Tetrachloride	5.67	117	18468	4.393	ug/l #	16
56) Ethyl methacrylate	9.24	69	43	2.870	ug/l #	27
58) 2-Chloroethyl Vinyl ether	8.49	63	19	14.249	ug/l #	45
70) Styrene	10.71	104	94	2.150	ug/l #	24
74) N-amyl acetate	10.89	43	82	1.760	ug/l #	34
76) 1,2,3-Trichloropropane	11.14	75	87813	21.671	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	265	Below Cal		70
81) trans-1,4-Dichloro-2-buten	11.14	75	87813	58.743	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	333	Below Cal		69
95) Naphthalene	13.83	128	335	0.741	ug/l #	79

(#) = 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. 0.01 min

Lab File: VX004891.D

Acq: 02 Oct 2018 01:17

Instrument :

MSVOA_X

ClientSampleId :

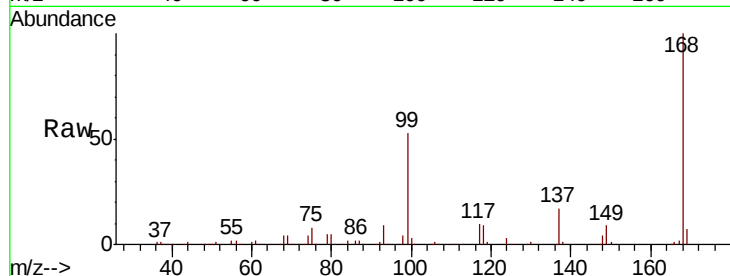
QNWP8-EQUIP-BLANK

Tot Ion:168 Resp: 212302

Ion Ratio Lower Upper

168 100

99 53.2 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

80000

60000

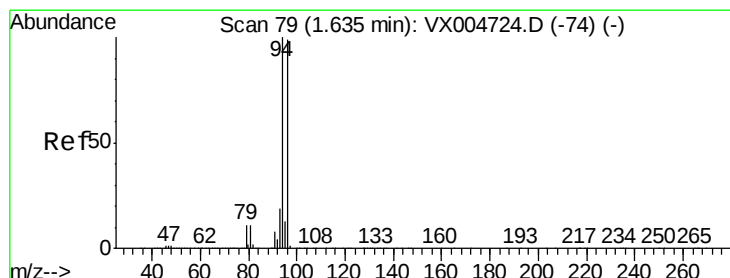
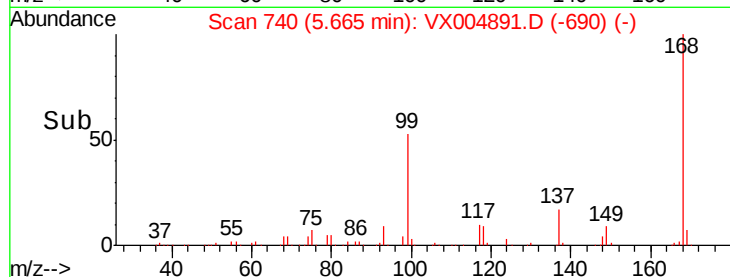
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#5

Bromomethane

Concen: 0.316 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX004891.D

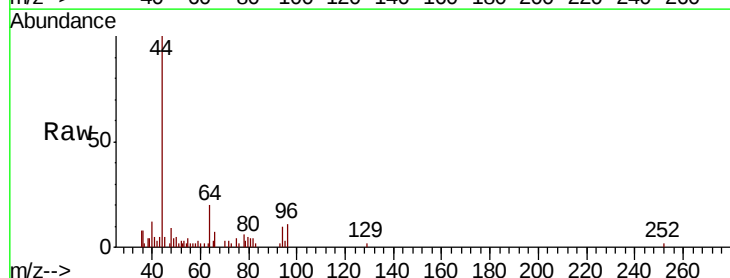
Acq: 02 Oct 2018 01:17

Tgt Ion: 94 Resp: 618

Ion Ratio Lower Upper

94 100

96 85.7 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

300

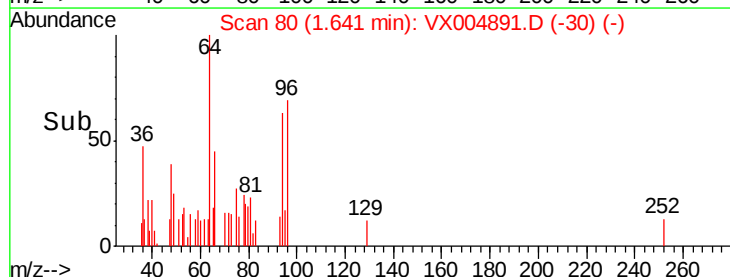
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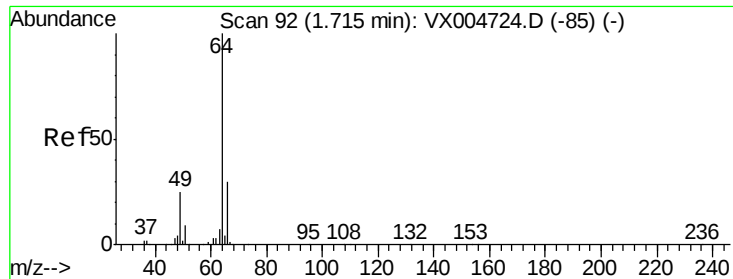
100

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. -0.06 min

Lab File: VX004891.D

Acq: 02 Oct 2018 01:17

Instrument :

MSVOA_X

ClientSampleId :

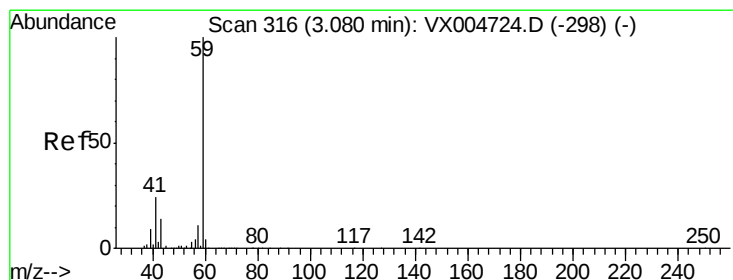
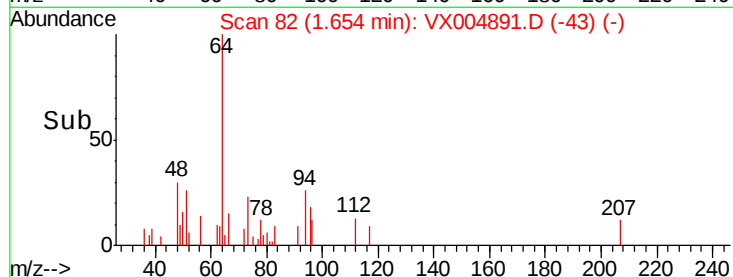
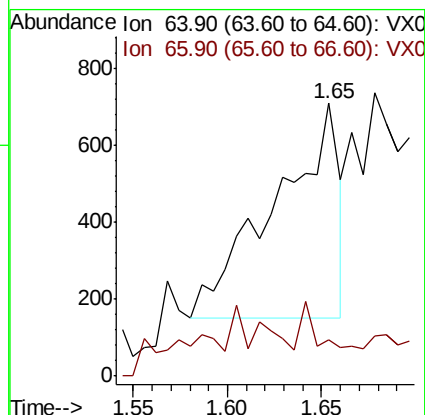
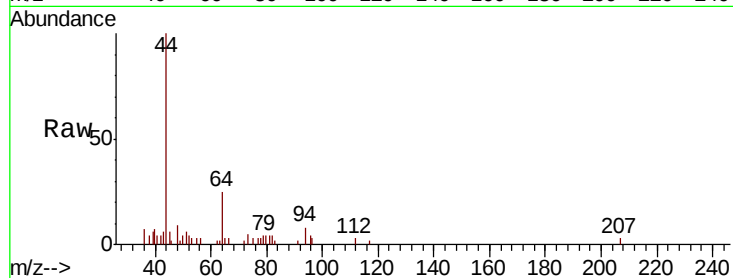
QNWP8-EQUIP-BLANK

Tot Ion: 64 Resp: 1318

Ion Ratio Lower Upper

64 100

66 4.1 24.6 36.8#



#11

Tert butyl alcohol

Concen: 16.149 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX004891.D

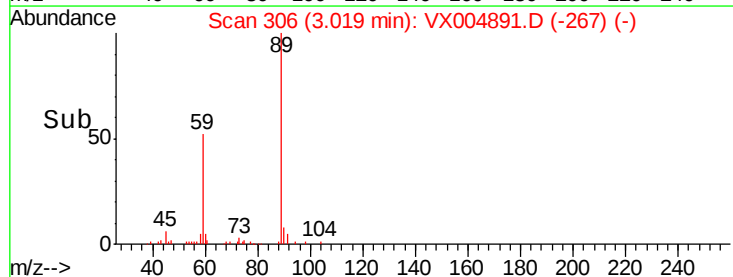
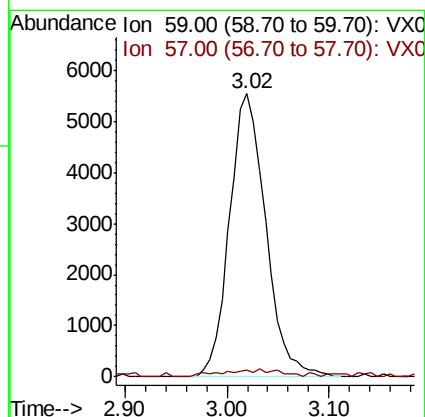
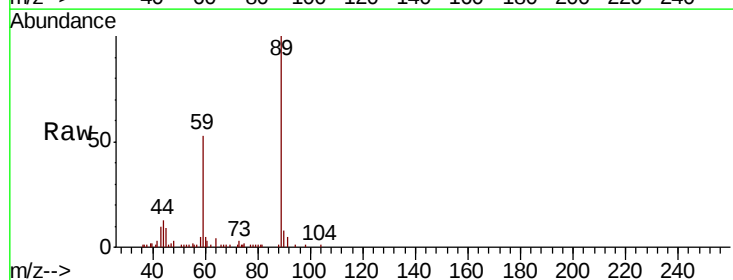
Acq: 02 Oct 2018 01:17

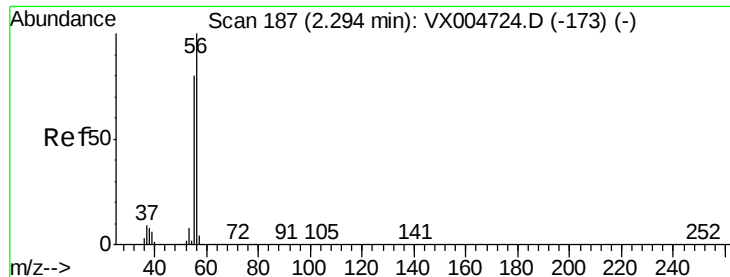
Tgt Ion: 59 Resp: 13694

Ion Ratio Lower Upper

59 100

57 0.6 8.2 12.4#





#13

Acrolein

Concen: 0.542 ug/l

RT: 2.32 min Scan# 191

Delta R.T. 0.02 min

Lab File: VX004891.D

Acq: 02 Oct 2018 01:17

Instrument :

MSVOA_X

ClientSampleId :

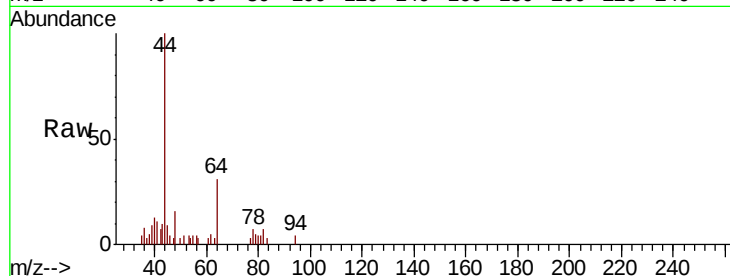
QNWP8-EQUIP-BLANK

Tot Ion: 56 Resp: 327

Ion Ratio Lower Upper

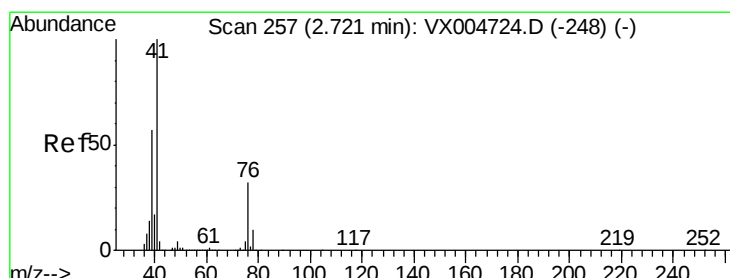
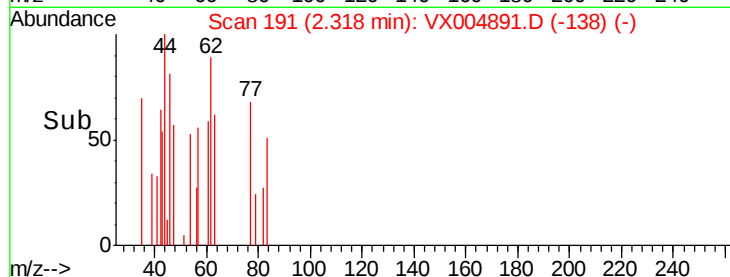
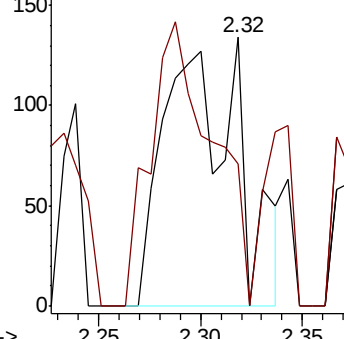
56 100

55 0.0 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#14

Allyl chloride

Concen: 2.580 ug/l

RT: 2.62 min Scan# 241

Delta R.T. -0.10 min

Lab File: VX004891.D

Acq: 02 Oct 2018 01:17

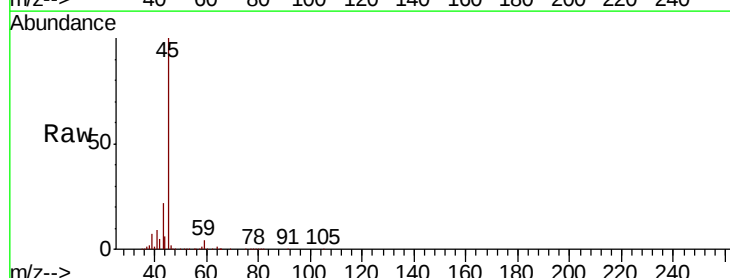
Tgt Ion: 41 Resp: 12950

Ion Ratio Lower Upper

41 100

39 82.2 48.9 73.3#

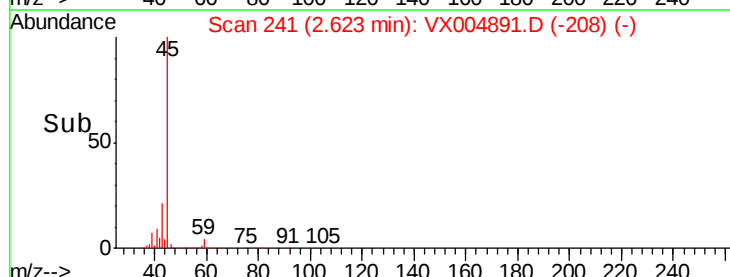
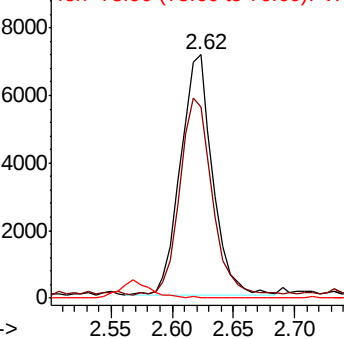
76 0.0 26.7 40.1#

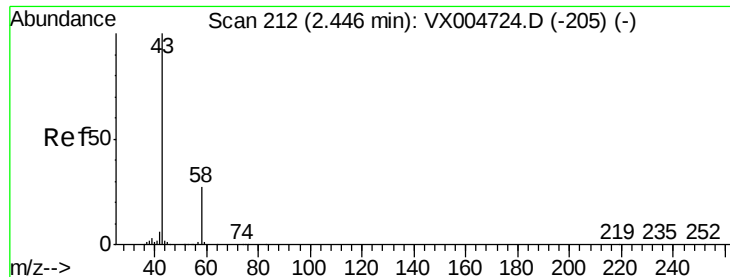


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0





#16

Acetone

Concen: 2.514 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX004891.D

Acq: 02 Oct 2018 01:17

Instrument :

MSVOA_X

ClientSampleId :

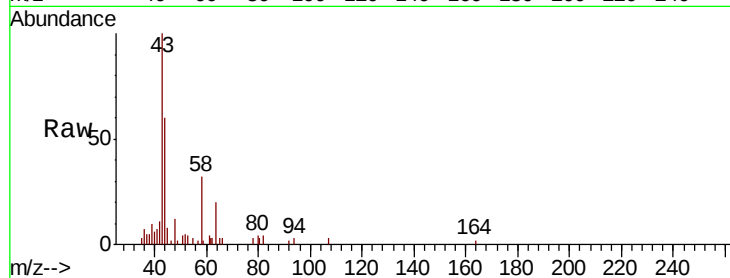
QNWP8-EQUIP-BLANK

Tot Ion: 43 Resp: 4451

Ion Ratio Lower Upper

43 100

58 33.3 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

2500

2000

1500

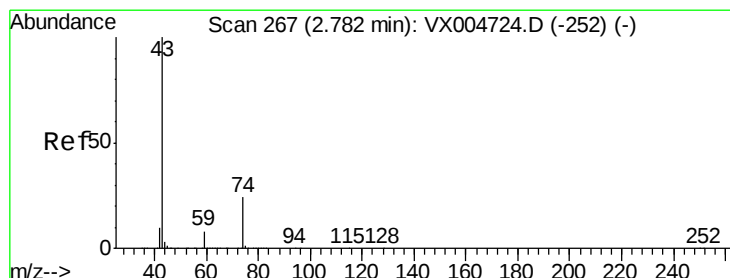
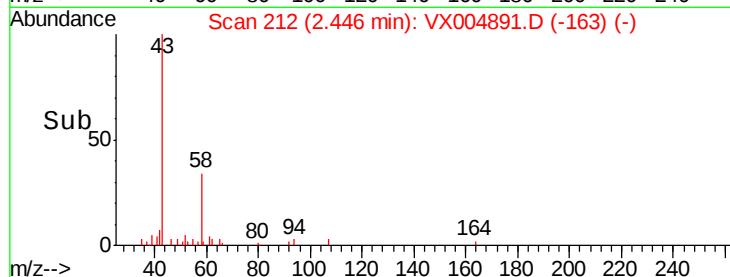
1000

500

0

Time-->

2.35 2.40 2.45 2.50



#18

Methyl Acetate

Concen: 0.301 ug/l

RT: 2.78 min Scan# 267

Delta R.T. -0.00 min

Lab File: VX004891.D

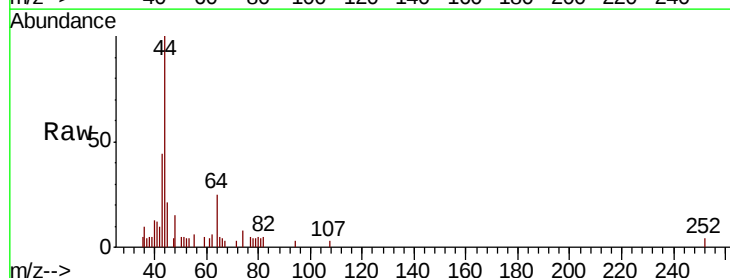
Acq: 02 Oct 2018 01:17

Tgt Ion: 43 Resp: 1352

Ion Ratio Lower Upper

43 100

74 23.0 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

1000

800

600

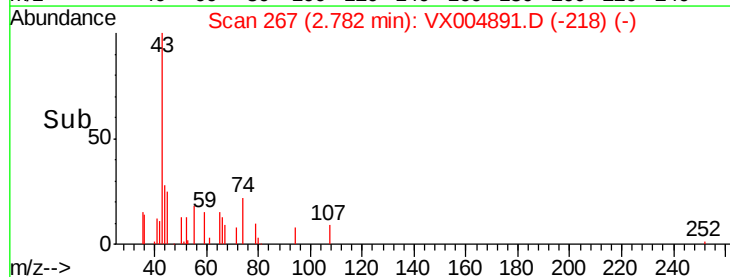
400

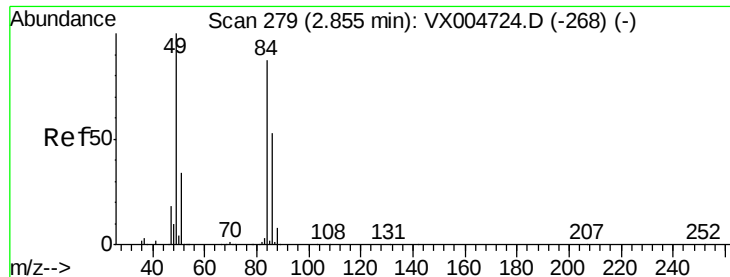
200

0

Time-->

2.70 2.75 2.80 2.85





#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX004891.D

Acq: 02 Oct 2018 01:17

Instrument :

MSVOA_X

ClientSampleId :

QNWP8-EQUIP-BLANK

Tot Ion: 84 Resp: 1239

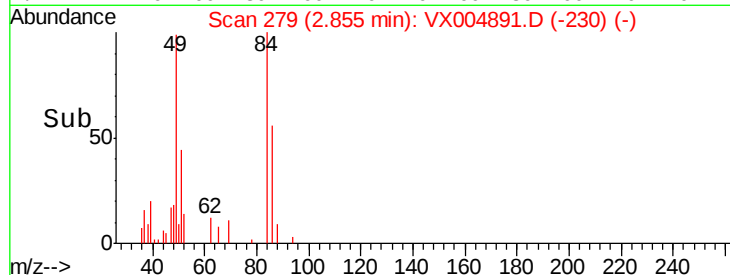
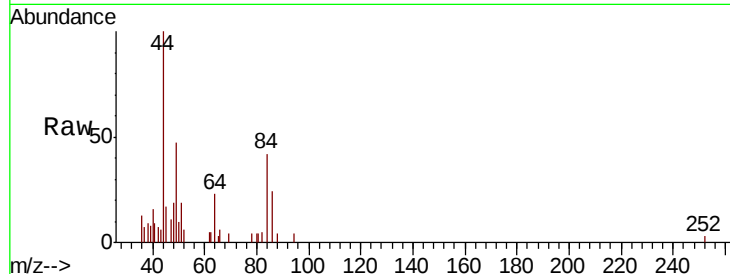
Ion Ratio Lower Upper

84 100

49 111.4 101.2 151.8

51 44.4 29.5 44.3#

86 55.9 52.3 78.5

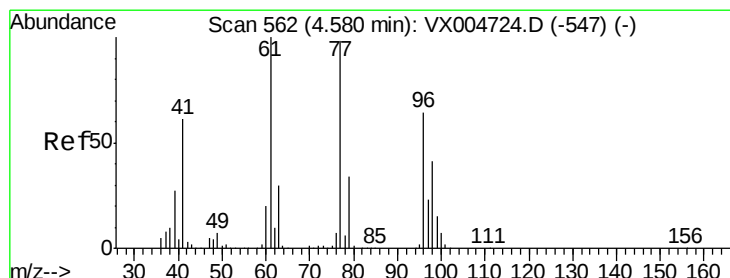
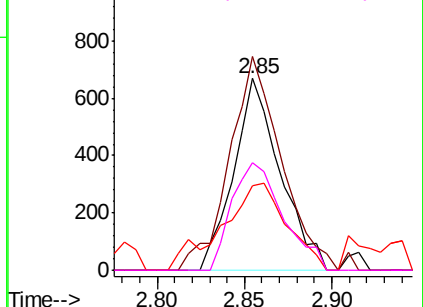


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#26

2,2-Dichloropropane

Concen: 0.222 ug/l

RT: 4.76 min Scan# 592

Delta R.T. 0.18 min

Lab File: VX004891.D

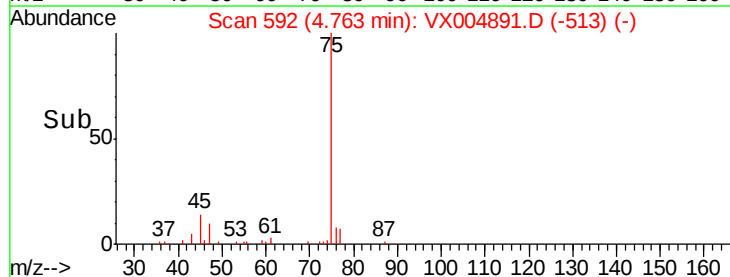
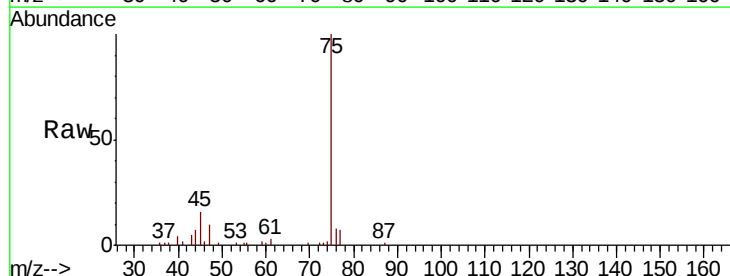
Acq: 02 Oct 2018 01:17

Tgt Ion: 77 Resp: 779

Ion Ratio Lower Upper

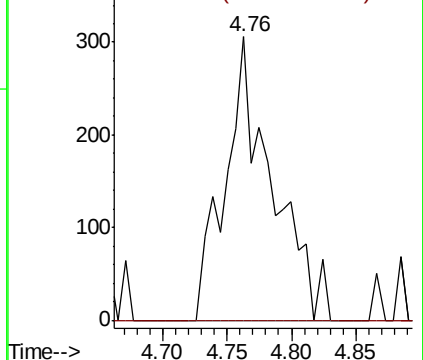
77 100

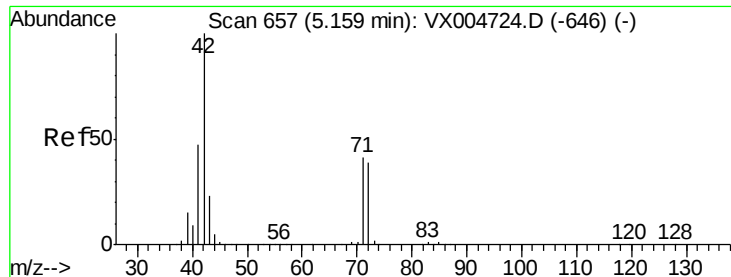
97 0.0 11.7 35.0#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0





#29

Tetrahydrofuran

Concen: 0.462 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX004891.D

Acq: 02 Oct 2018 01:17

Instrument :

MSVOA_X

ClientSampleId :

QNWP8-EQUIP-BLANK

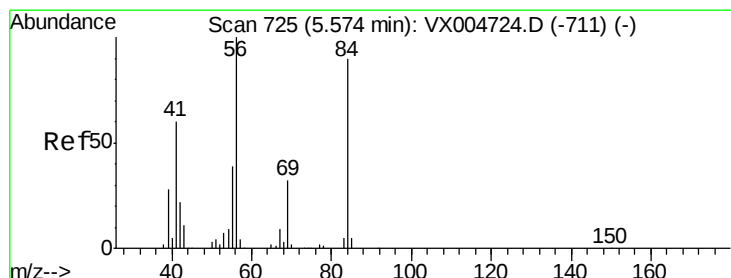
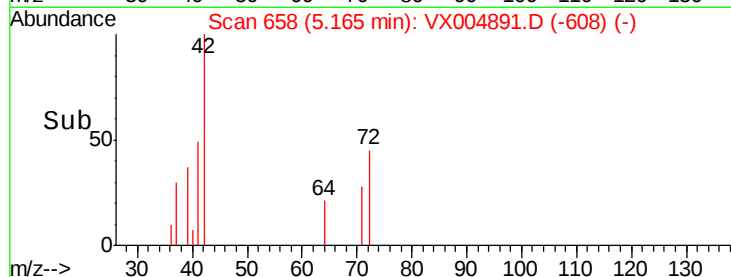
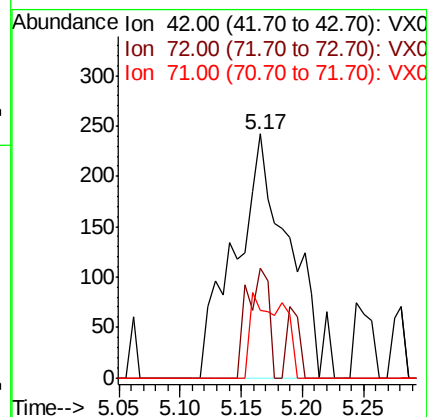
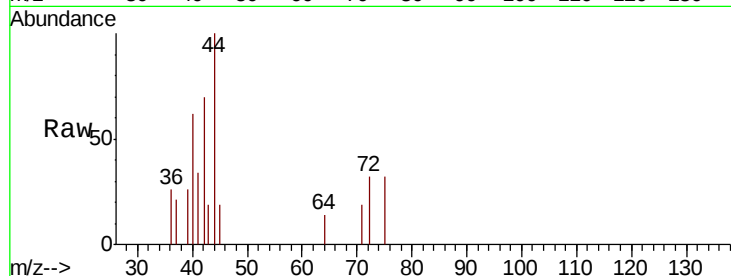
Tot Ion: 42 Resp: 749

Ion Ratio Lower Upper

42 100

72 17.8 37.4 56.0#

71 13.6 34.5 51.7#



#31

Cyclohexane

Concen: 1.100 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX004891.D

Acq: 02 Oct 2018 01:17

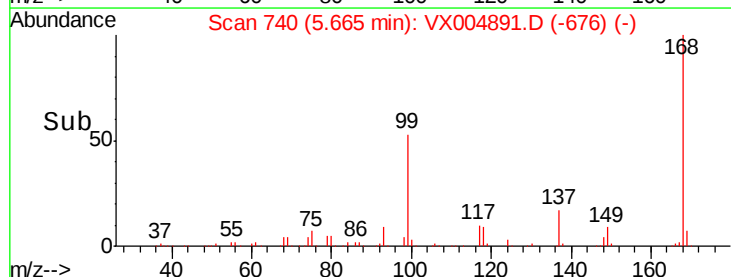
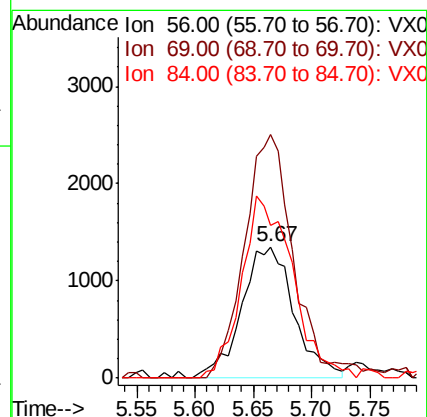
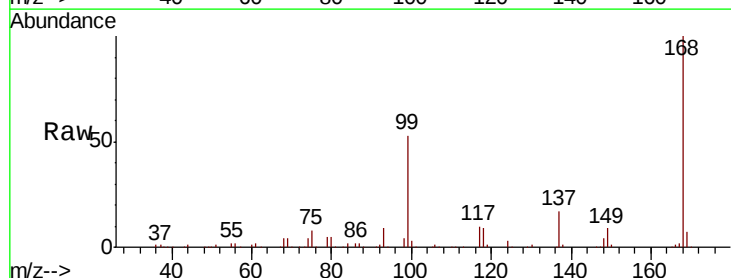
Tgt Ion: 56 Resp: 4246

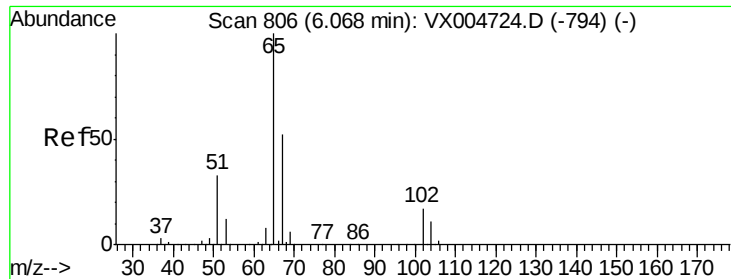
Ion Ratio Lower Upper

56 100

69 185.3 25.4 38.2#

84 116.6 71.4 107.2#





#33

1,2-Dichloroethane-d4

Concen: 55.246 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004891.D

Acq: 02 Oct 2018 01:17

Instrument :

MSVOA_X

ClientSampleId :

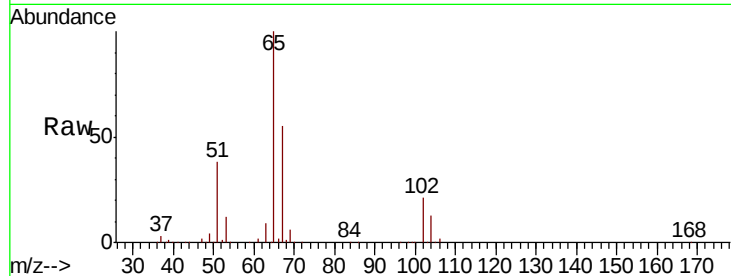
QNWP8-EQUIP-BLANK

Tot Ion: 65 Resp: 167546

Ion Ratio Lower Upper

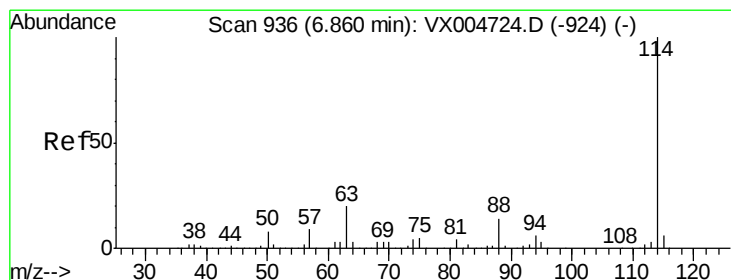
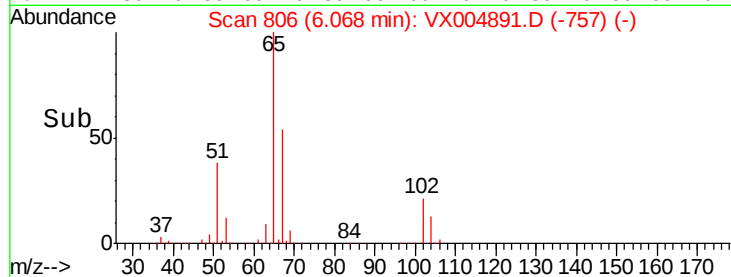
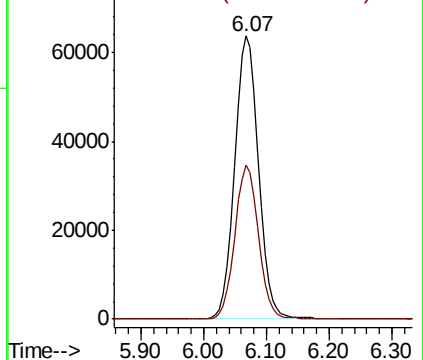
65 100

67 54.1 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. -0.00 min

Lab File: VX004891.D

Acq: 02 Oct 2018 01:17

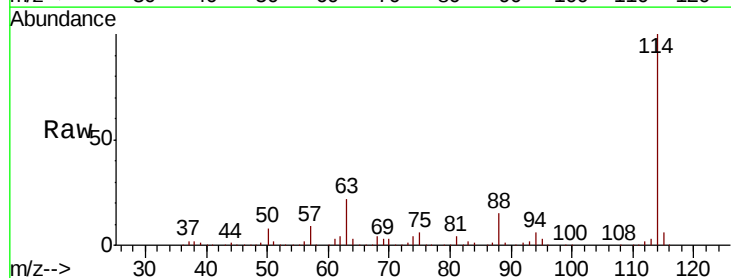
Tgt Ion: 114 Resp: 345837

Ion Ratio Lower Upper

114 100

63 21.6 0.0 39.0

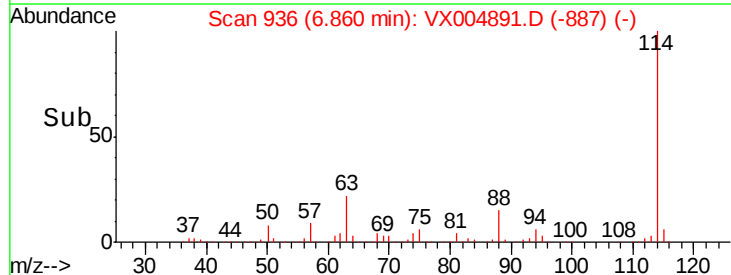
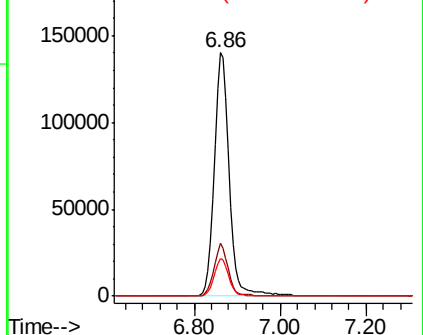
88 15.3 0.0 30.4

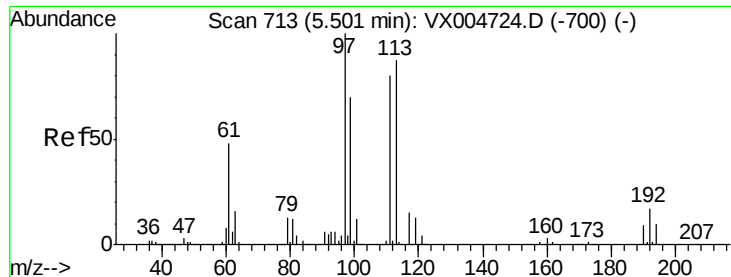


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.229 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX004891.D

Acq: 02 Oct 2018 01:17

Instrument :

MSVOA_X

ClientSampleId :

QNWP8-EQUIP-BLANK

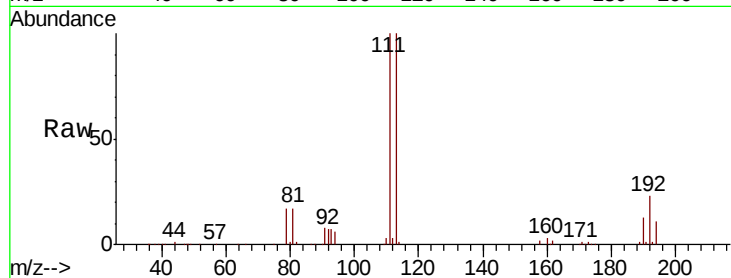
Tot Ion:113 Resp: 141361

Ion Ratio Lower Upper

113 100

111 102.5 82.4 123.6

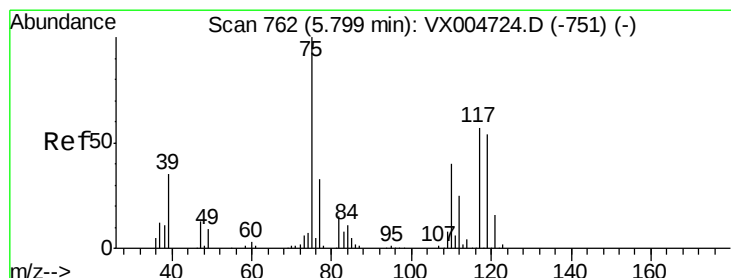
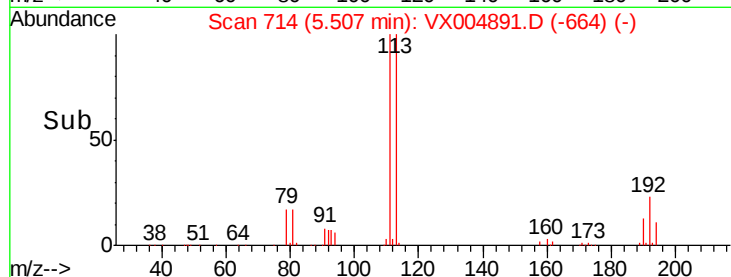
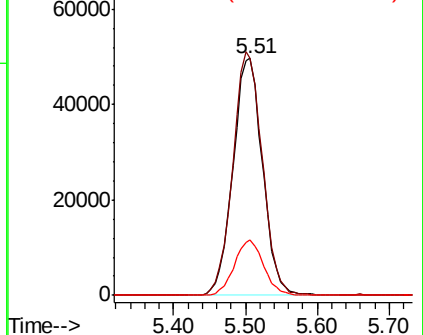
192 23.1 19.4 29.2



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: 3.743 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX004891.D

Acq: 02 Oct 2018 01:17

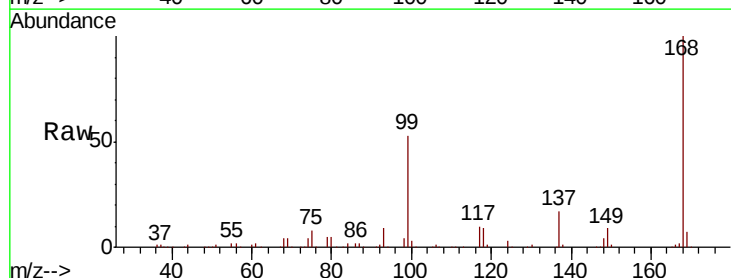
Tgt Ion: 75 Resp: 14970

Ion Ratio Lower Upper

75 100

110 9.0 18.0 54.0#

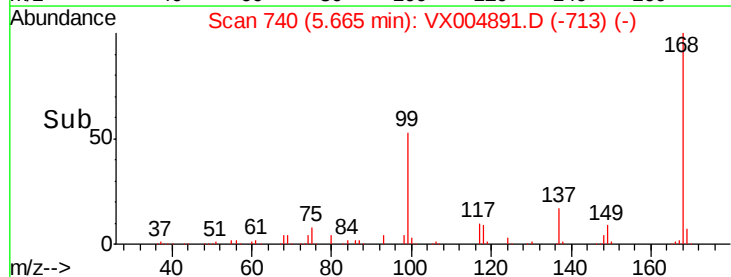
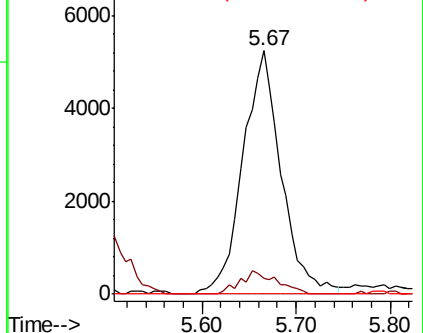
77 0.0 24.6 36.8#

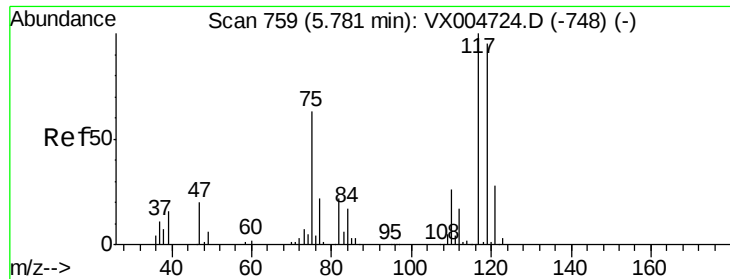


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

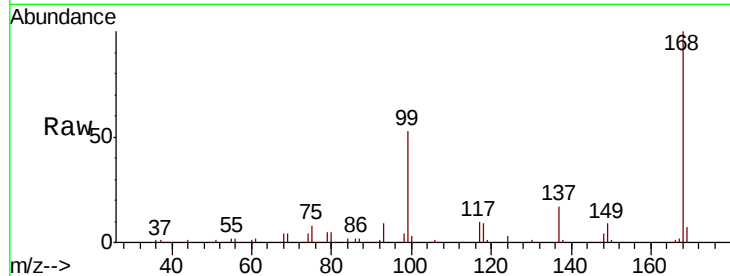




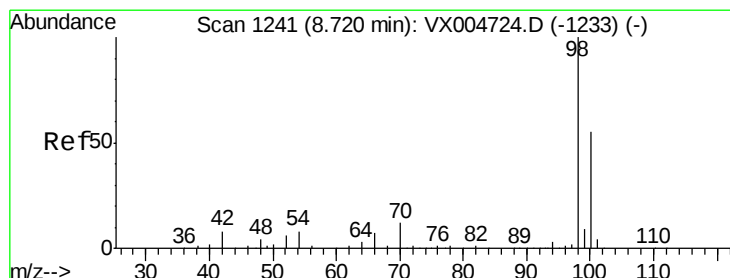
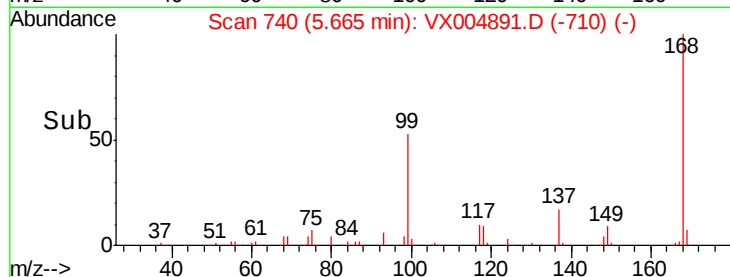
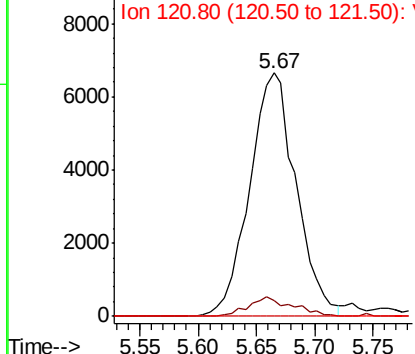
#38
Carbon Tetrachloride
Concen: 4.393 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX004891.D
Acq: 02 Oct 2018 01:17

Instrument :
MSVOA_X
ClientSampleId :
QNWP8-EQUIP-BLANK

Tot Ion:117 Resp: 18468
Ion Ratio Lower Upper
117 100
119 6.6 78.8 118.2#
121 0.0 24.9 37.3#

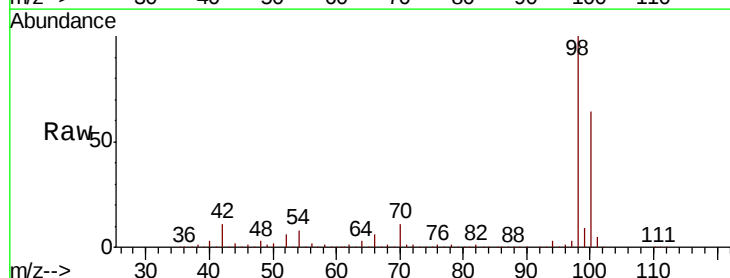


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

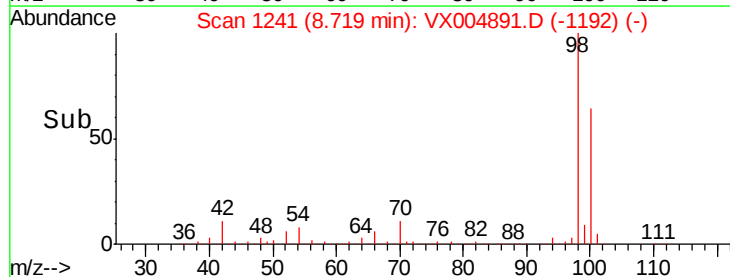
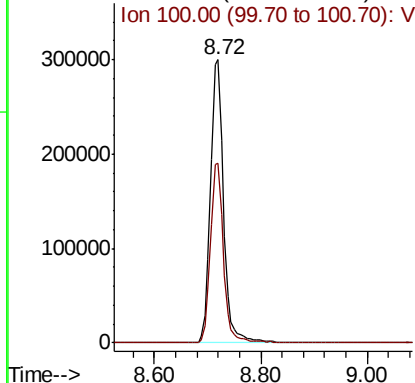


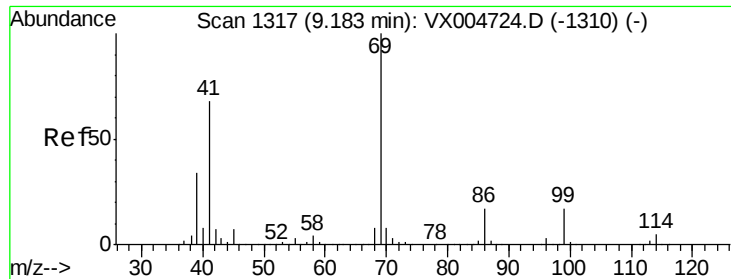
#50
Toluene-d8
Concen: 52.127 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VX004891.D
Acq: 02 Oct 2018 01:17

Tgt Ion: 98 Resp: 507930
Ion Ratio Lower Upper
98 100
100 63.4 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#56

Ethyl methacrylate

Concen: 2.870 ug/l

RT: 9.24 min Scan# 1326

Delta R.T. 0.06 min

Lab File: VX004891.D

Acq: 02 Oct 2018 01:17

Instrument :

MSVOA_X

ClientSampleId :

QNWP8-EQUIP-BLANK

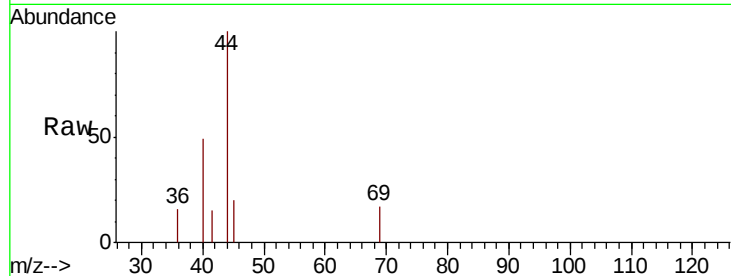
Tot Ion: 69 Resp: 43

Ion Ratio Lower Upper

69 100

41 46.5 51.0 76.4#

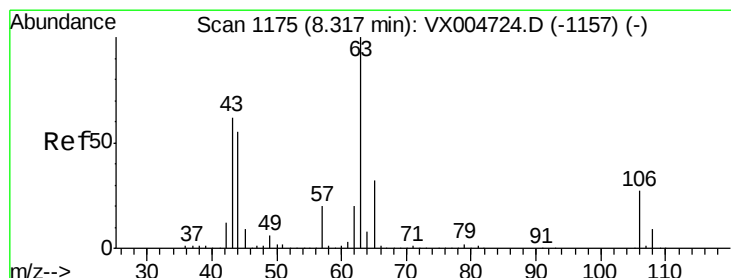
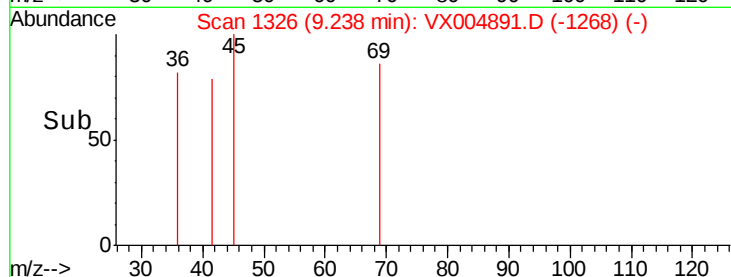
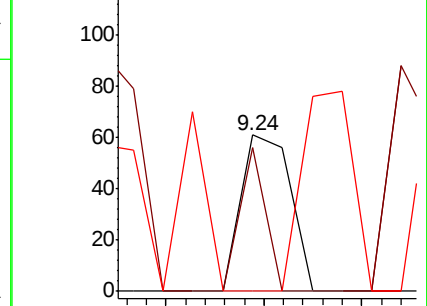
39 130.2 26.1 39.1#



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#58

2-Chloroethyl Vinyl ether

Concen: 14.249 ug/l

RT: 8.49 min Scan# 1204

Delta R.T. 0.18 min

Lab File: VX004891.D

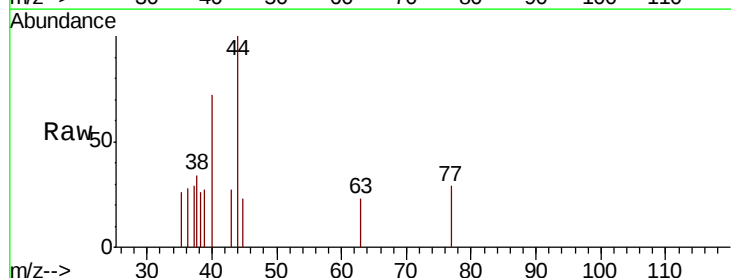
Acq: 02 Oct 2018 01:17

Tgt Ion: 63 Resp: 19

Ion Ratio Lower Upper

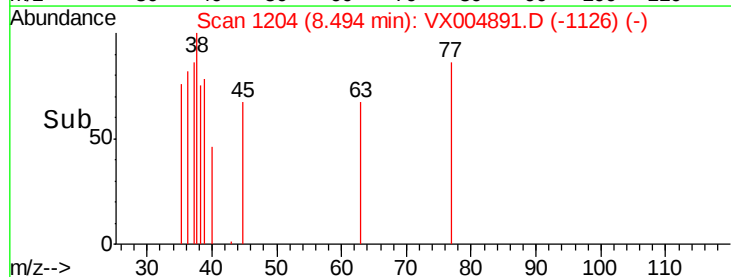
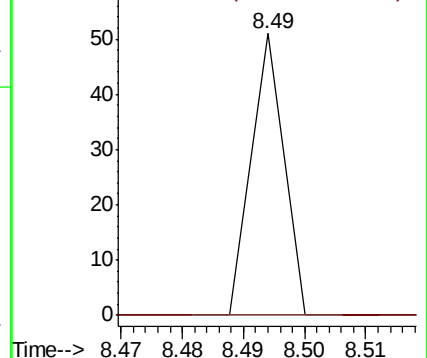
63 100

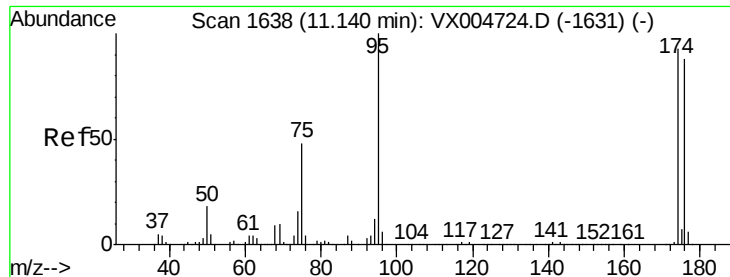
106 0.0 23.9 35.9#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V





#62

4-Bromofluorobenzene

Concen: 49.882 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX004891.D

Acq: 02 Oct 2018 01:17

Instrument :

MSVOA_X

ClientSampleId :

QNWP8-EQUIP-BLANK

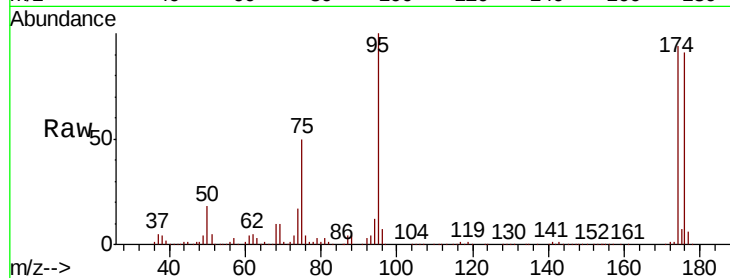
Tot Ion: 95 Resp: 175104

Ion Ratio Lower Upper

95 100

174 93.7 0.0 185.2

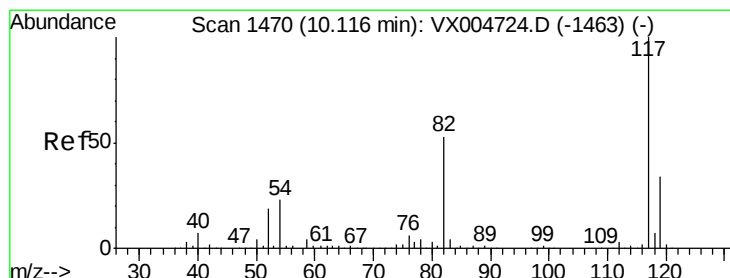
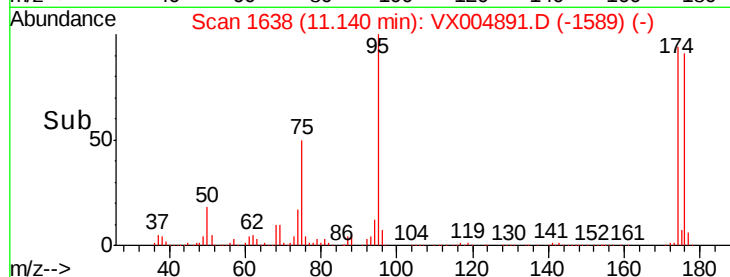
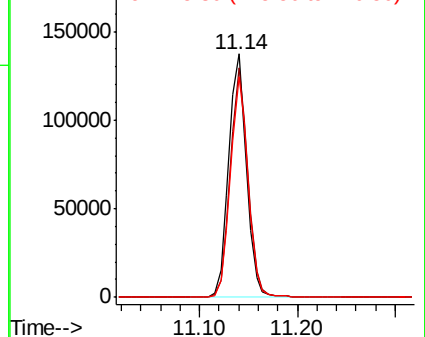
176 89.9 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX004724.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX004724.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX004724.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX004891.D

Acq: 02 Oct 2018 01:17

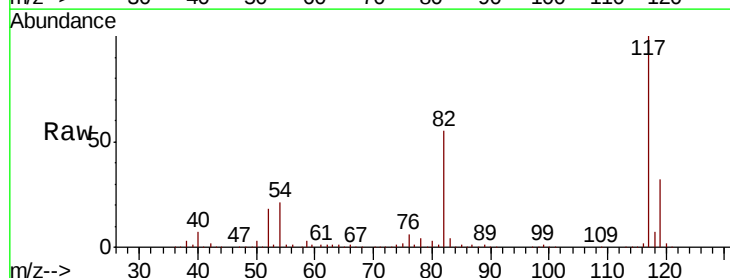
Tgt Ion: 117 Resp: 338575

Ion Ratio Lower Upper

117 100

82 54.7 47.8 71.6

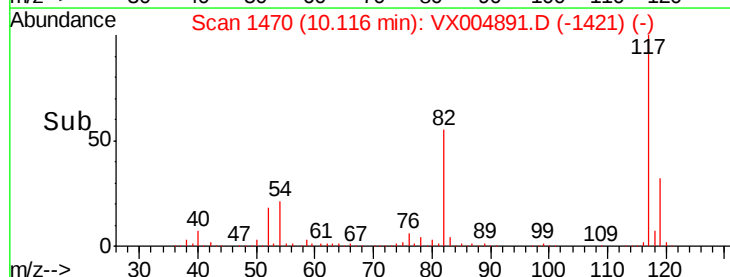
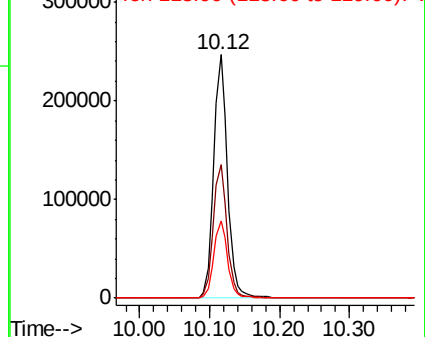
119 31.9 29.3 43.9

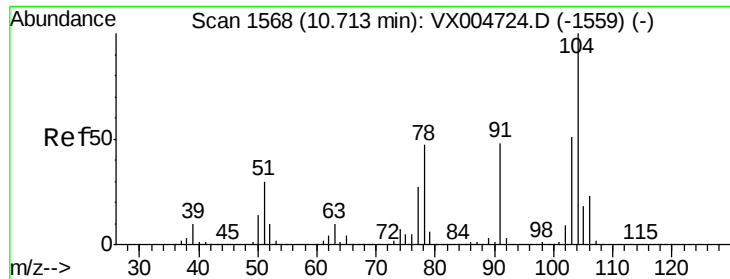


Abundance Ion 116.90 (116.60 to 117.60): VX004724.D (-1463) (-)

Ion 82.00 (81.70 to 82.70): VX004724.D (-1463) (-)

Ion 118.90 (118.60 to 119.60): VX004724.D (-1463) (-)





#70

Stvrene

Concen: 2.150 ug/l

RT: 10.71 min Scan# 1567

Delta R.T. -0.01 min

Lab File: VX004891.D

Acq: 02 Oct 2018 01:17

Instrument :

MSVOA_X

ClientSampleId :

QNWP8-EQUIP-BLANK

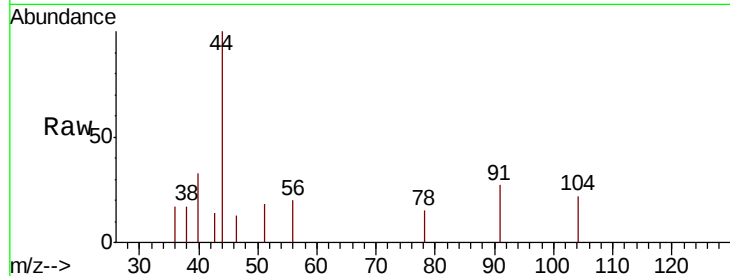
Tot Ion:104 Resp: 94

Ion Ratio Lower Upper

104 100

78 96.8 37.4 56.0#

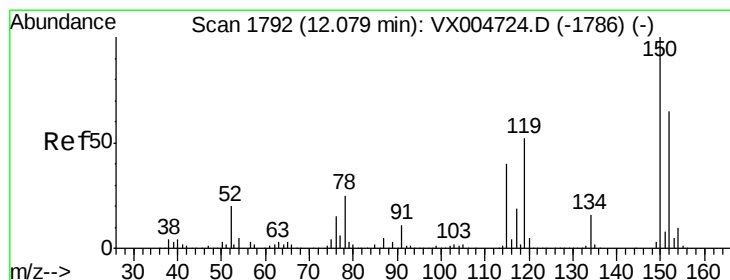
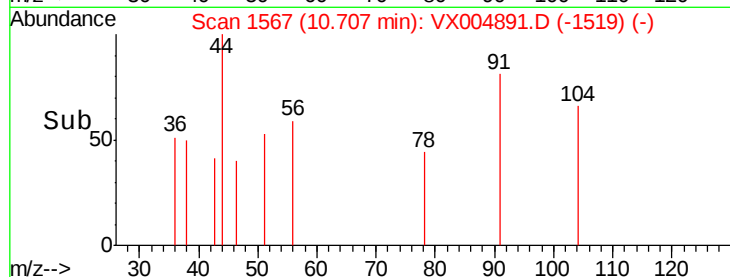
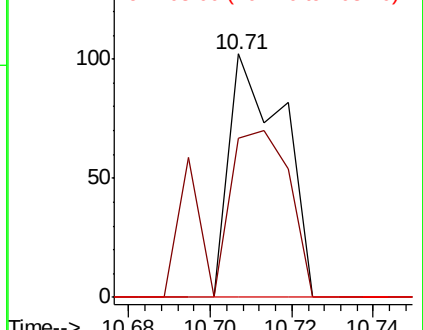
103 0.0 43.8 65.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VX0

Ion 103.00 (102.70 to 103.70): 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: VX004891.D

Acq: 02 Oct 2018 01:17

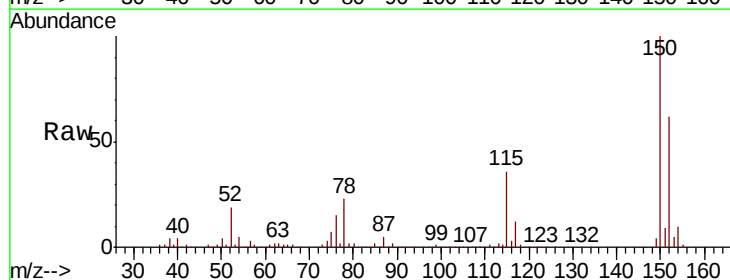
Tgt Ion:152 Resp: 180787

Ion Ratio Lower Upper

152 100

115 56.1 39.0 117.0

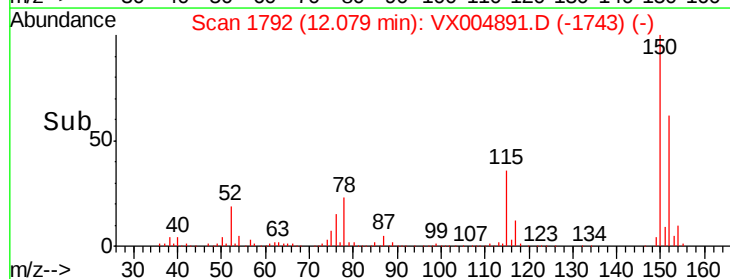
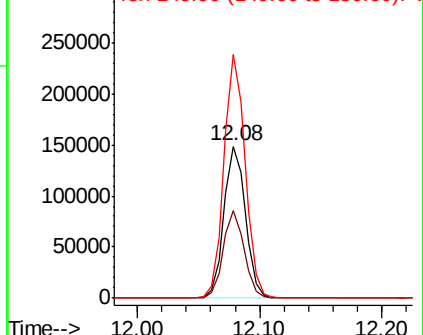
150 158.0 0.0 351.0

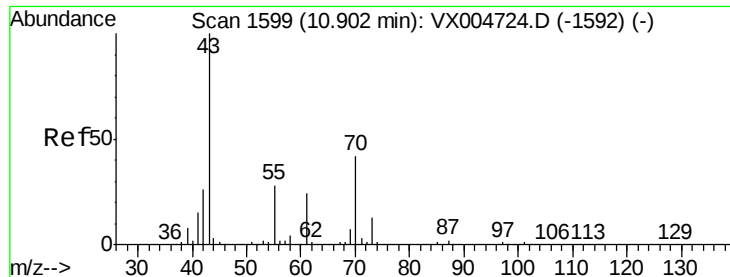


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.760 ug/l

RT: 10.89 min Scan# 1597

Delta R.T. -0.01 min

Lab File: VX004891.D

Acq: 02 Oct 2018 01:17

Instrument :

MSVOA_X

ClientSampleId :

QNWP8-EQUIP-BLANK

Tot Ion: 43 Resp: 82

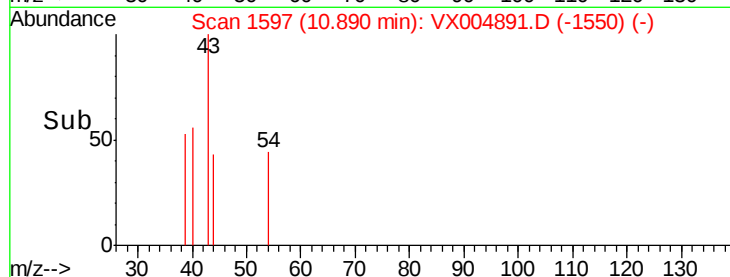
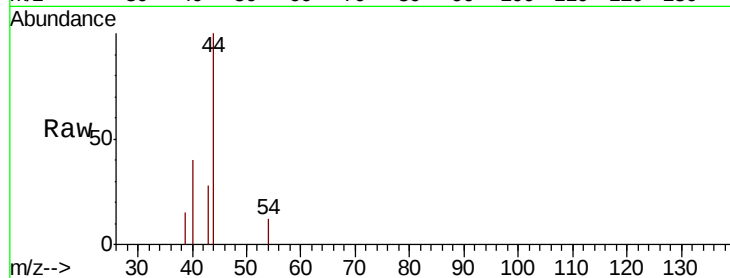
Ion Ratio Lower Upper

43 100

70 0.0 37.4 56.0#

55 64.6 21.8 32.8#

61 0.0 20.6 30.8#

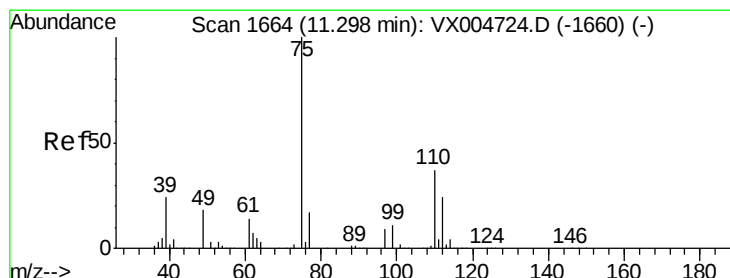
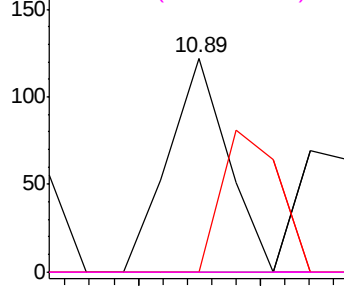


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 21.671 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004891.D

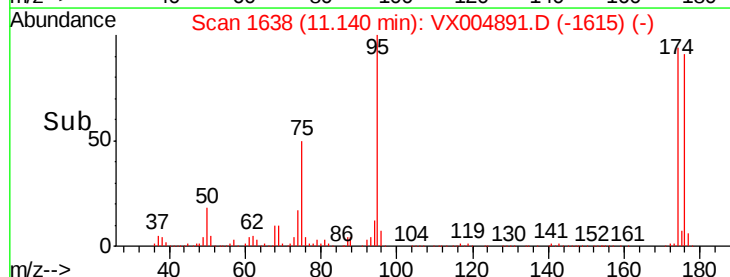
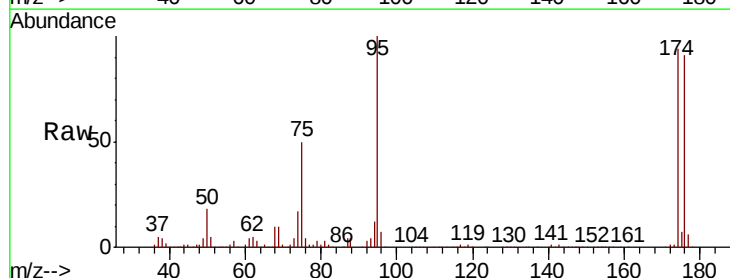
Acq: 02 Oct 2018 01:17

Tgt Ion: 75 Resp: 87813

Ion Ratio Lower Upper

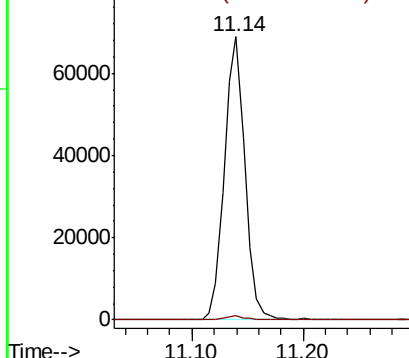
75 100

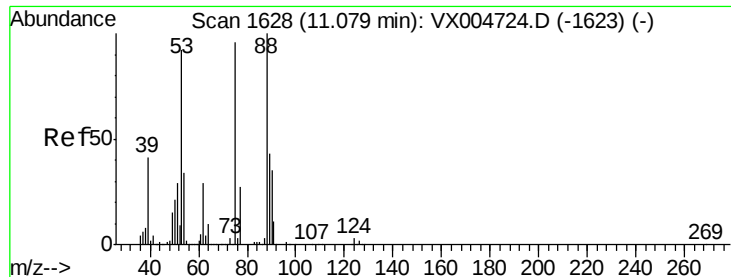
77 1.4 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

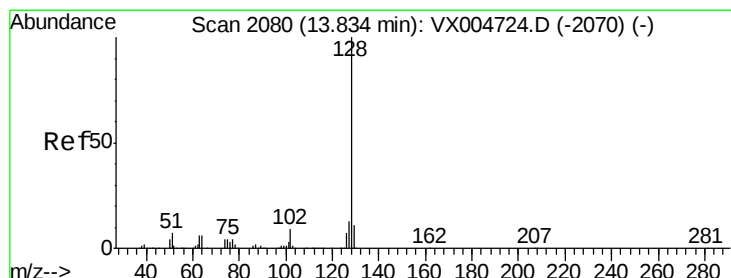
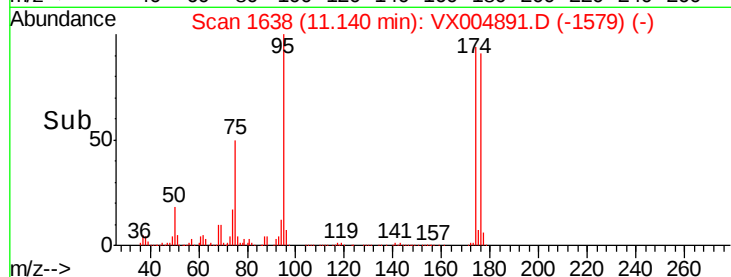
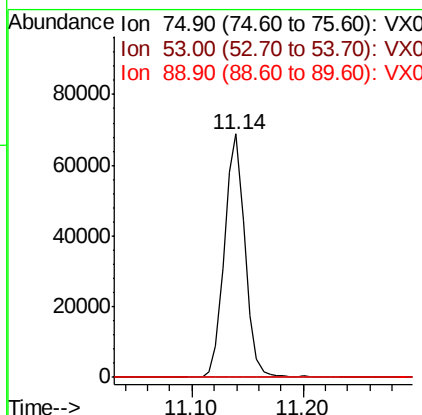
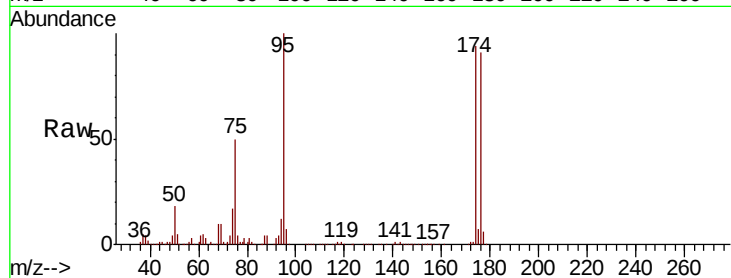




#81
trans-1,4-Dichloro-2-butene
Concen: 58.743 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.06 min
Lab File: VX004891.D
Acq: 02 Oct 2018 01:17

Instrument :
MSVOA_X
ClientSampleId :
QNWP8-EQUIP-BLANK

Tot Ion: 75 Resp: 87813
Ion Ratio Lower Upper
75 100
53 0.3 80.1 120.1#
89 0.0 37.2 55.8#



#95
Naphthalene
Concen: 0.741 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX004891.D
Acq: 02 Oct 2018 01:17

Tgt Ion:128 Resp: 335
Ion Ratio Lower Upper
128 100
127 18.5 10.2 15.2#
129 0.0 8.6 12.8#

