

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX092818\
 Data File : VX004820.D
 Acq On : 28 Sep 2018 14:45
 Operator : JC/MD
 Sample : J5081-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-720

Quant Time: Sep 29 06:24:36 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	230770	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	375193	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	365364	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	204349	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	177306	53.79	ug/l	0.00
Spiked Amount			Recovery	=	107.58%	
35) Dibromofluoromethane	5.50	113	148821	46.80	ug/l	0.00
Spiked Amount			Recovery	=	93.60%	
50) Toluene-d8	8.72	98	544570	51.51	ug/l	0.00
Spiked Amount			Recovery	=	103.02%	
62) 4-Bromofluorobenzene	11.14	95	196768	51.67	ug/l	0.00
Spiked Amount			Recovery	=	103.34%	

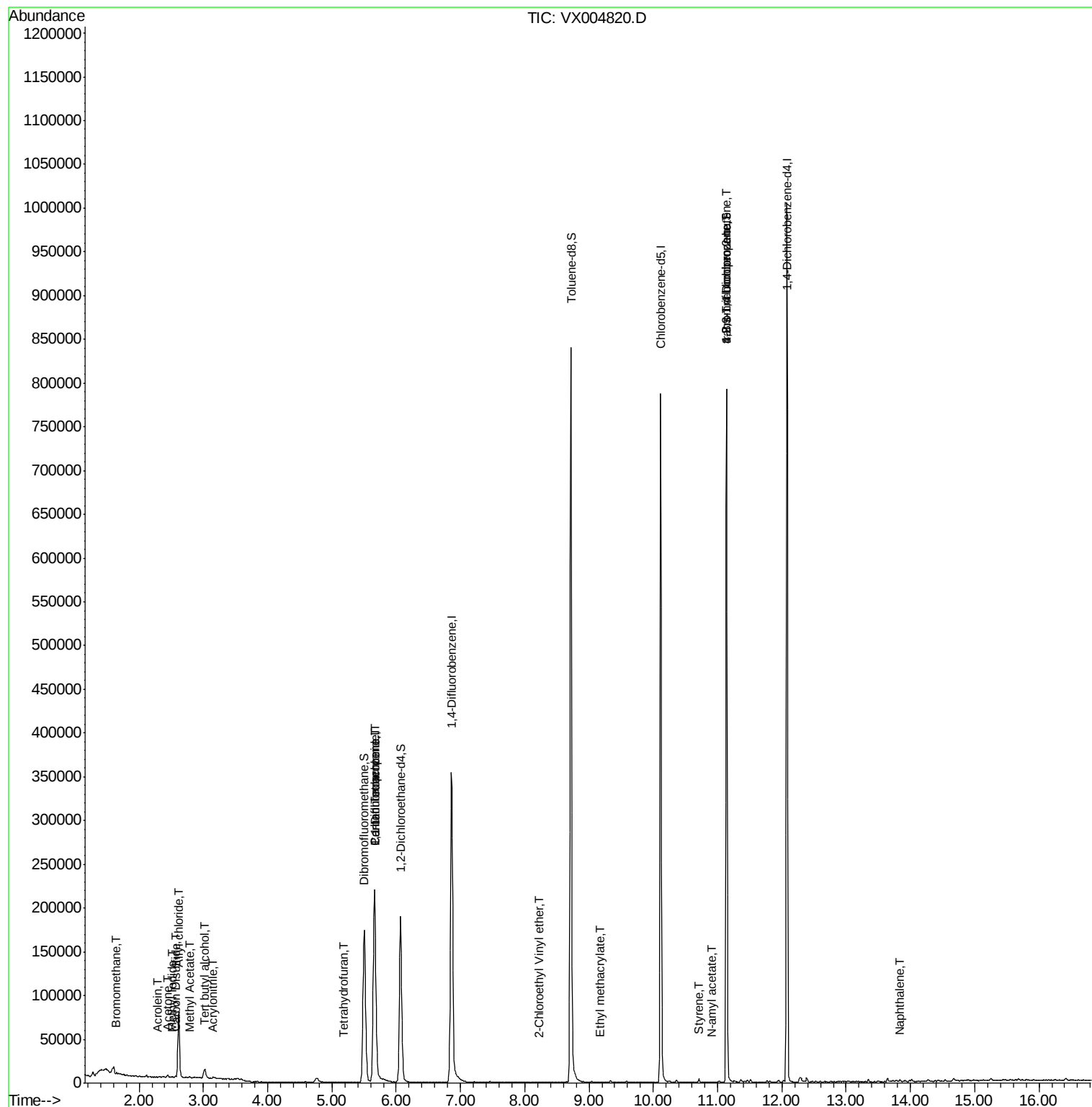
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	501	0.236	ug/l #	63
6) Chloroethane	1.75	64	332	Below Cal	#	87
10) Methyl Iodide	2.52	142	1294	0.383	ug/l #	85
11) Tert butyl alcohol	3.03	59	6863	7.446	ug/l #	72
13) Acrolein	2.29	56	333	0.508	ug/l #	35
14) Allyl chloride	2.62	41	7191	1.318	ug/l #	61
15) Acrylonitrile	3.16	53	714	0.352	ug/l #	32
16) Acetone	2.44	43	3045	1.582	ug/l	99
17) Carbon Disulfide	2.57	76	2504	0.333	ug/l	95
18) Methyl Acetate	2.78	43	995	0.204	ug/l	94
20) Methylene Chloride	2.85	84	496	Below Cal	#	77
29) Tetrahydrofuran	5.18	42	420	0.238	ug/l #	45
36) 1,1-Dichloropropene	5.66	75	15988	3.685	ug/l #	49
38) Carbon Tetrachloride	5.67	117	20579	4.512	ug/l #	15
56) Ethyl methacrylate	9.17	69	175	2.893	ug/l #	30
58) 2-Chloroethyl Vinyl ether	8.22	63	41	14.256	ug/l #	45
70) Styrene	10.71	104	1204	2.256	ug/l	95
74) N-amyl acetate	10.90	43	405	1.803	ug/l #	46
76) 1,2,3-Trichloropropane	11.14	75	97315	21.247	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	551	Below Cal		81
81) trans-1,4-Dichloro-2-buten	11.14	75	97315	57.632	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	738	Below Cal		91
95) Naphthalene	13.83	128	1739	0.820	ug/l #	93

(#) = 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: VX004820.D

Acq: 28 Sep 2018 14:45

Instrument :

MSVOA_X

ClientSampled :

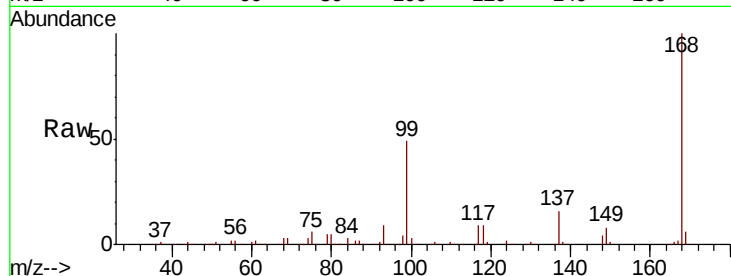
MH-720

Tot Ion:168 Resp: 230770

Ion Ratio Lower Upper

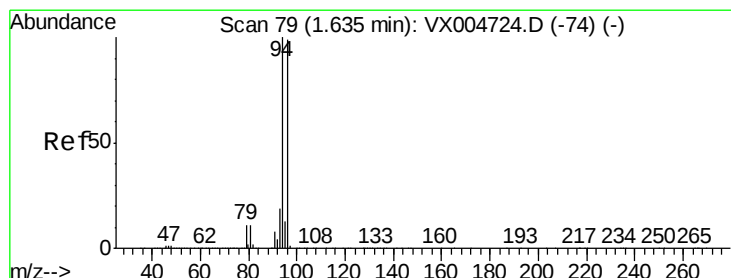
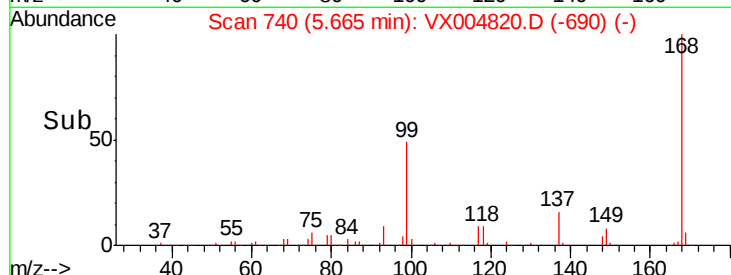
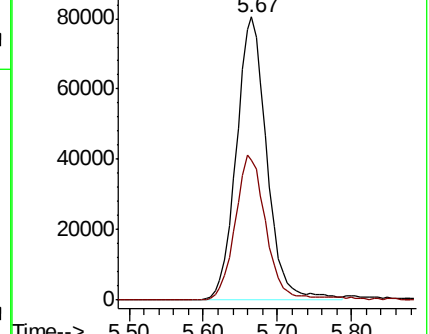
168 100

99 49.3 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.236 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004820.D

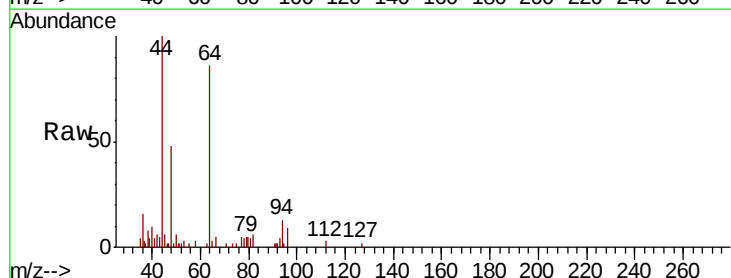
Acq: 28 Sep 2018 14:45

Tgt Ion: 94 Resp: 501

Ion Ratio Lower Upper

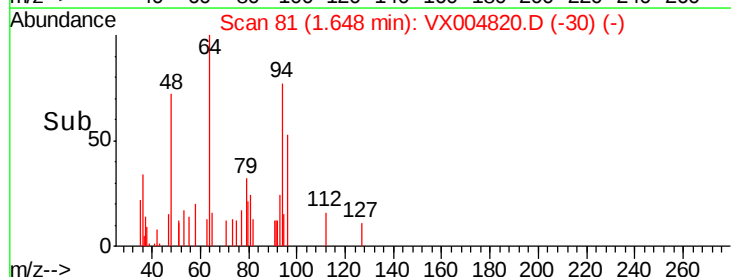
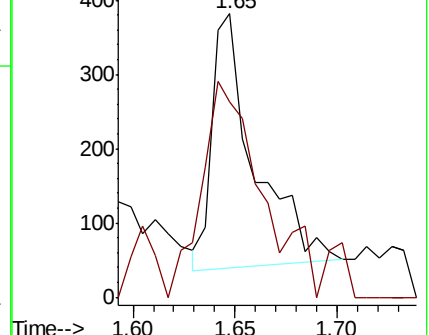
94 100

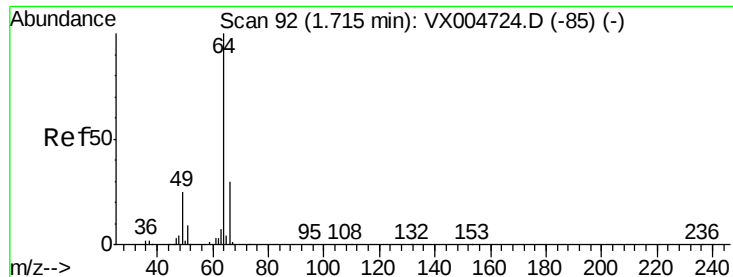
96 57.4 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.75 min Scan# 98

Delta R.T. 0.04 min

Lab File: VX004820.D

Acq: 28 Sep 2018 14:45

Instrument :

MSVOA_X

ClientSampled :

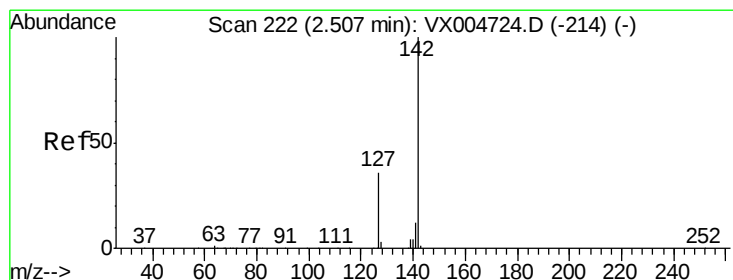
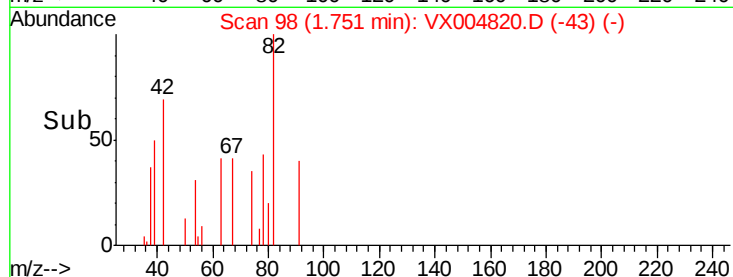
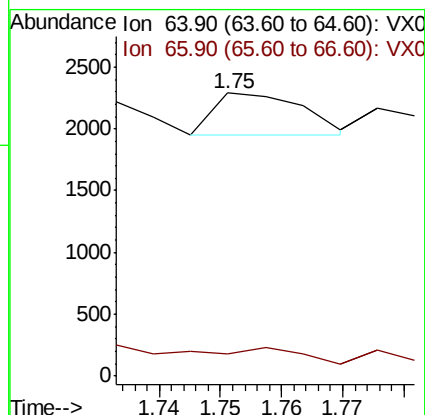
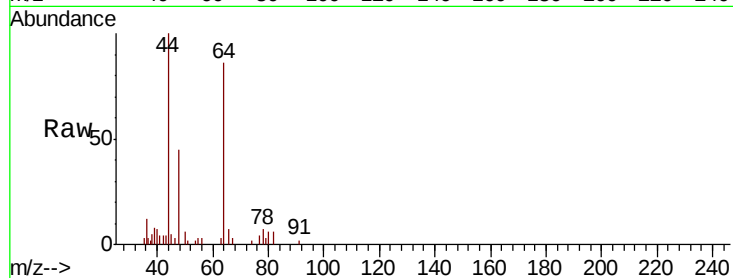
MH-720

Tot Ion: 64 Resp: 332

Ion Ratio Lower Upper

64 100

66 23.4 24.6 36.8#



#10

Methyl Iodide

Concen: 0.383 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX004820.D

Acq: 28 Sep 2018 14:45

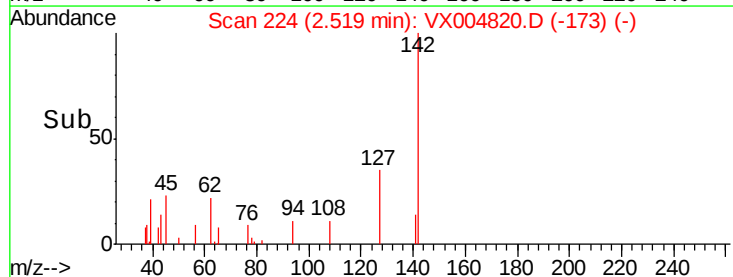
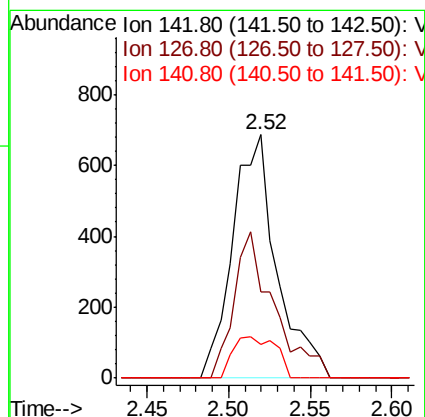
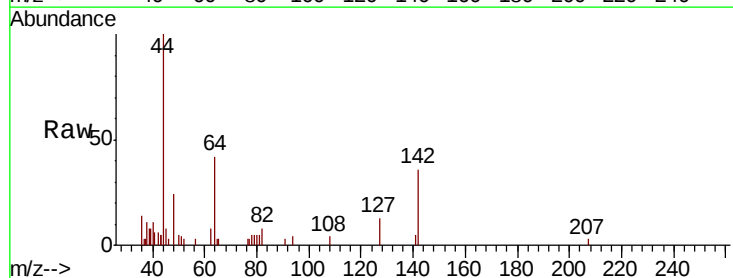
Tgt Ion: 142 Resp: 1294

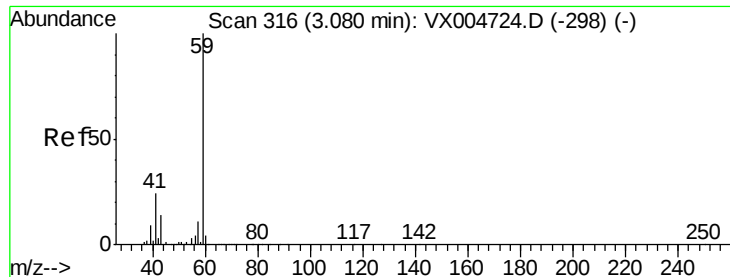
Ion Ratio Lower Upper

142 100

127 54.2 33.8 50.6#

141 16.3 11.4 17.0



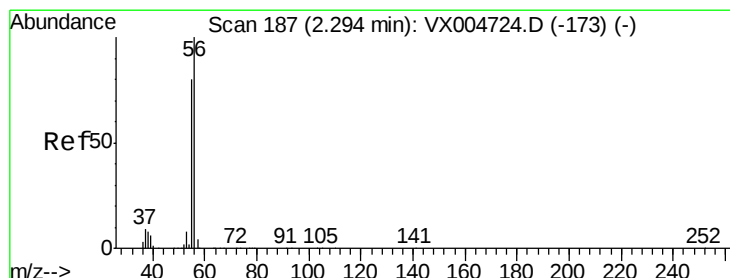
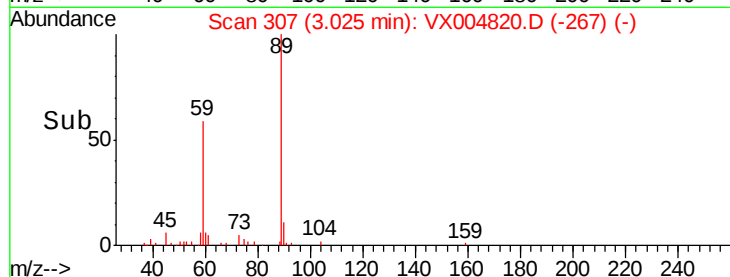
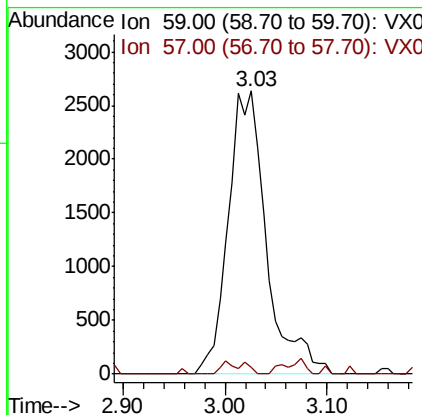
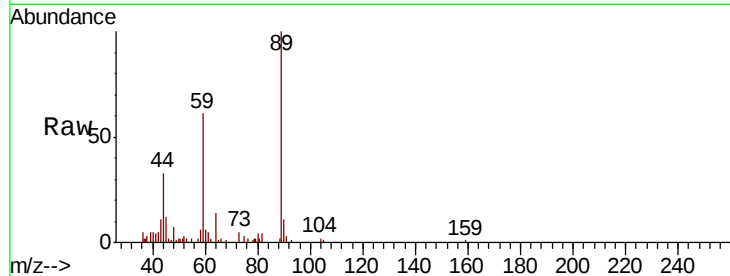


#11

Tert butyl alcohol
 Concen: 7.446 ug/l
 RT: 3.03 min Scan# 307
 Delta R.T. -0.05 min
 Lab File: VX004820.D
 Acq: 28 Sep 2018 14:45

Instrument :
 MSVOA_X
 ClientSampled :
 MH-720

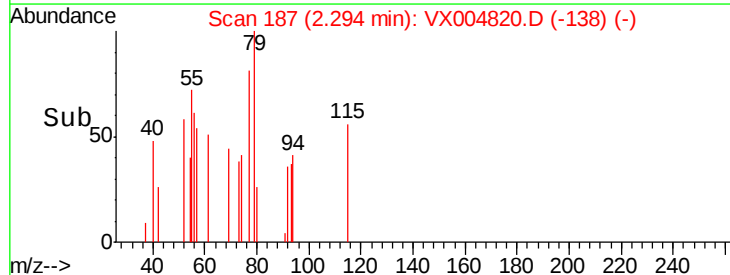
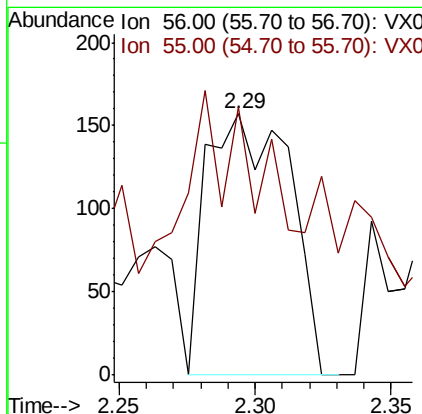
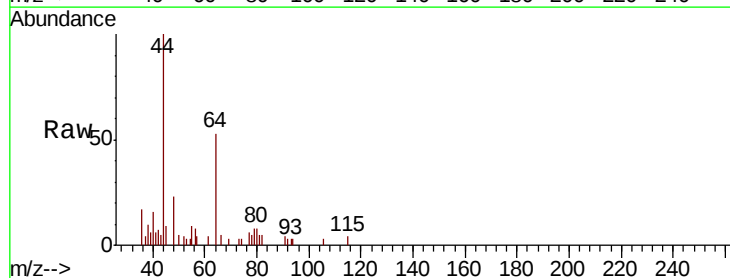
Tot Ion: 59 Resp: 6863
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#

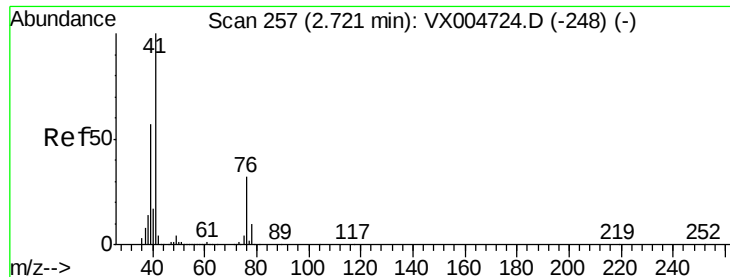


#13

Acrolein
 Concen: 0.508 ug/l
 RT: 2.29 min Scan# 187
 Delta R.T. -0.00 min
 Lab File: VX004820.D
 Acq: 28 Sep 2018 14:45

Tgt Ion: 56 Resp: 333
 Ion Ratio Lower Upper
 56 100
 55 15.9 54.7 82.1#





#14

Allvl chloride

Concen: 1.318 ug/l

RT: 2.62 min Scan# 240

Delta R.T. -0.10 min

Lab File: VX004820.D

Acq: 28 Sep 2018 14:45

Instrument :

MSVOA_X

ClientSampleId :

MH-720

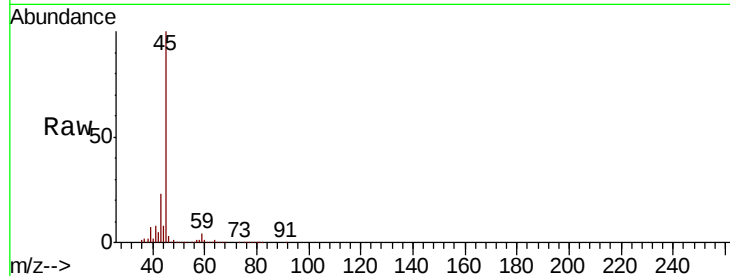
Tot Ion: 41 Resp: 7191

Ion Ratio Lower Upper

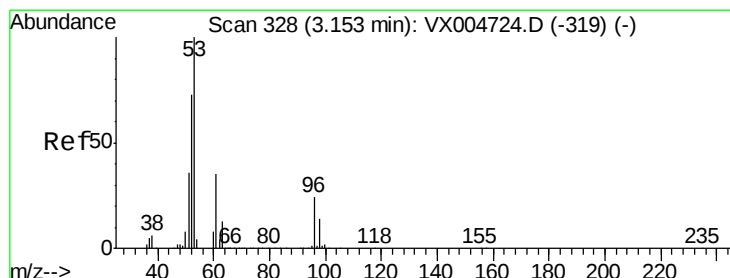
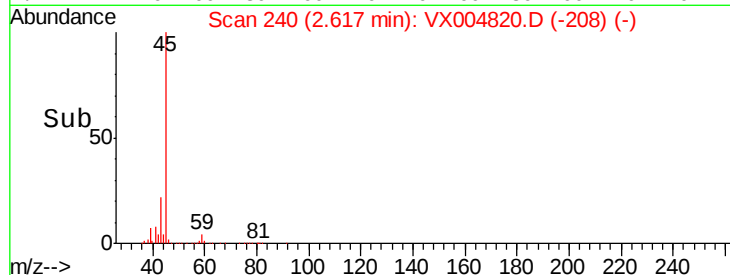
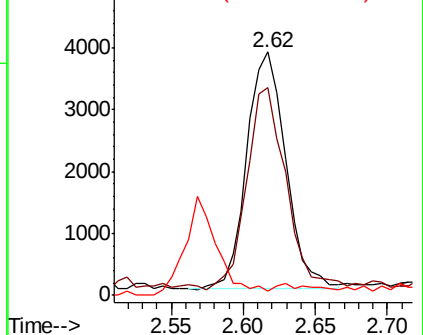
41 100

39 86.5 48.9 73.3#

76 5.5 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



#15

Acrylonitrile

Concen: 0.352 ug/l

RT: 3.16 min Scan# 329

Delta R.T. 0.01 min

Lab File: VX004820.D

Acq: 28 Sep 2018 14:45

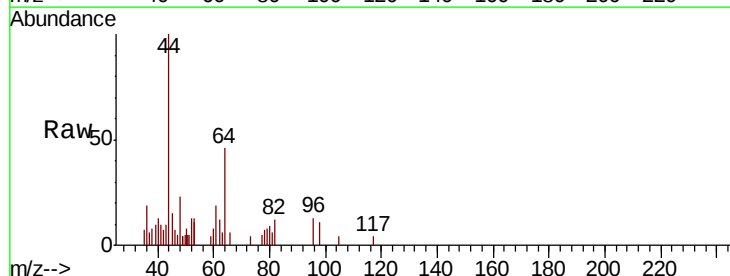
Tgt Ion: 53 Resp: 714

Ion Ratio Lower Upper

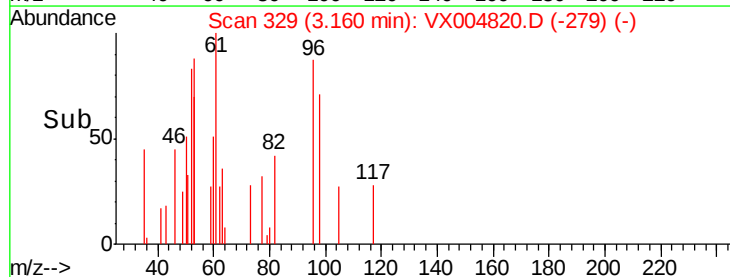
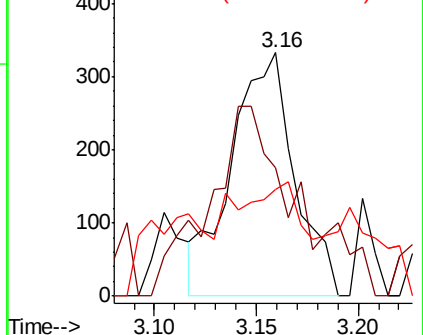
53 100

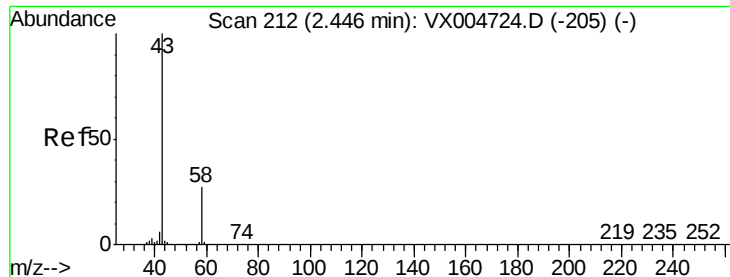
52 0.0 65.2 97.8#

51 42.7 28.2 42.2#



Abundance Ion 53.00 (52.70 to 53.70): VX0
Ion 52.00 (51.70 to 52.70): VX0
Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 1.582 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX004820.D

Acq: 28 Sep 2018 14:45

Instrument :

MSVOA_X

ClientSampled :

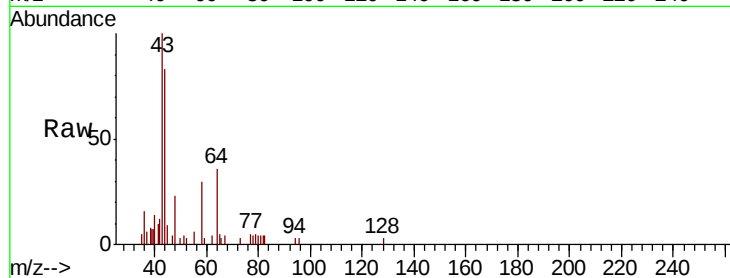
MH-720

Tot Ion: 43 Resp: 3045

Ion Ratio Lower Upper

43 100

58 32.1 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

2000

1500

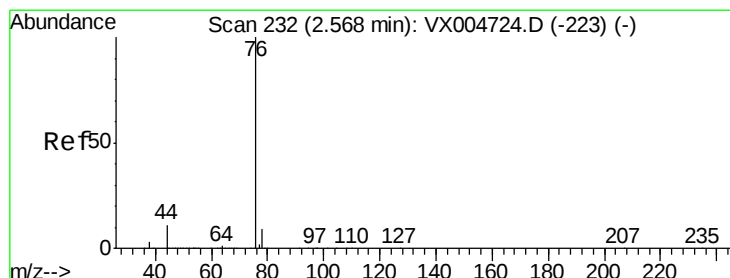
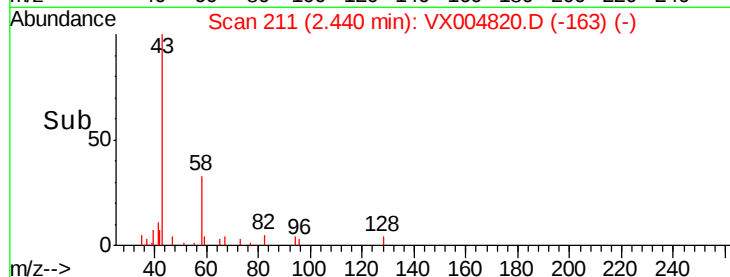
1000

500

0

2.40 2.45 2.50

Time-->



#17

Carbon Disulfide

Concen: 0.333 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX004820.D

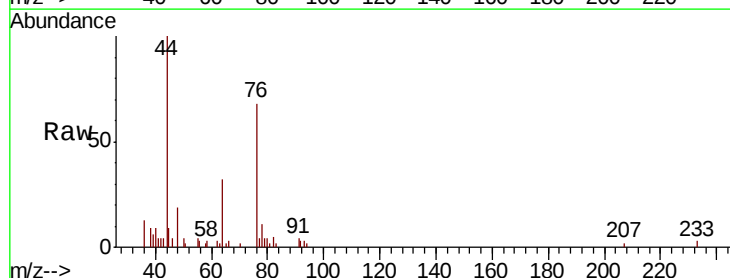
Acq: 28 Sep 2018 14:45

Tgt Ion: 76 Resp: 2504

Ion Ratio Lower Upper

76 100

78 10.5 7.0 10.6



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

1500

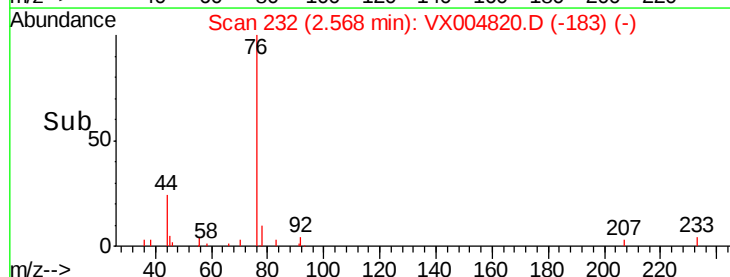
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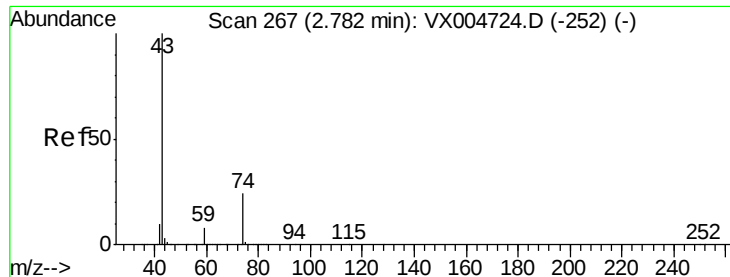
500

0

2.50 2.55 2.60

Time-->

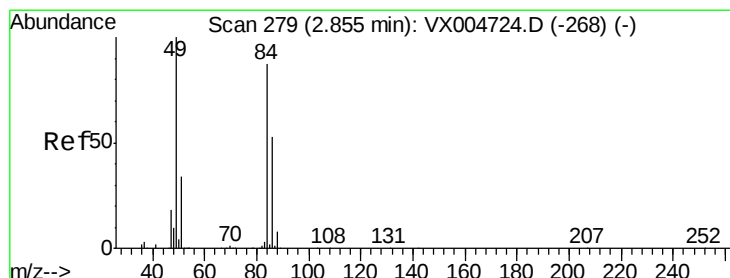
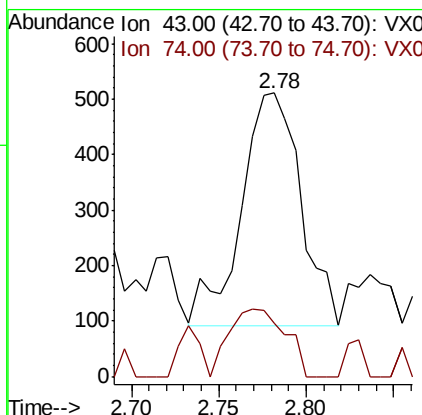
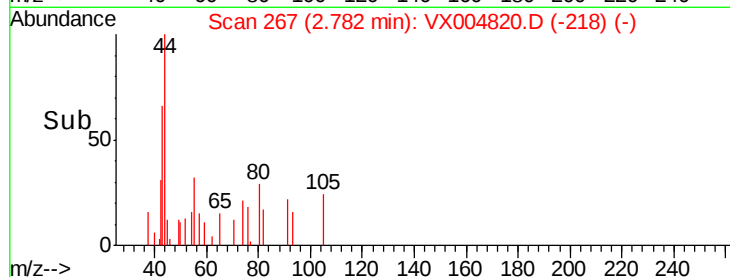
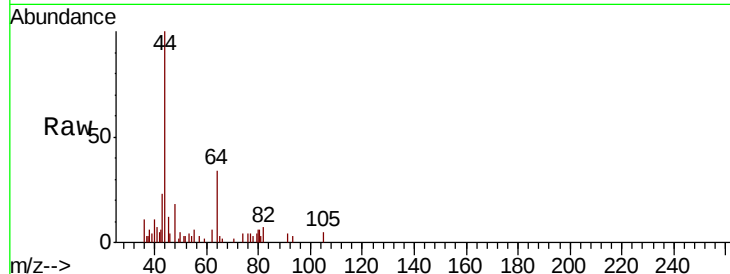




#18
Methvl Acetate
Concen: 0.204 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX004820.D
Acq: 28 Sep 2018 14:45

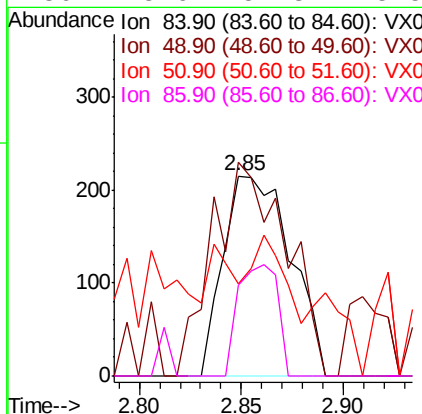
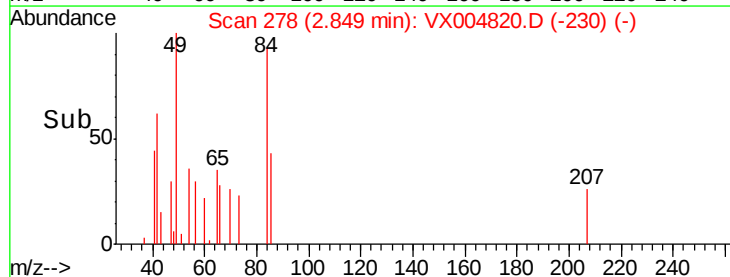
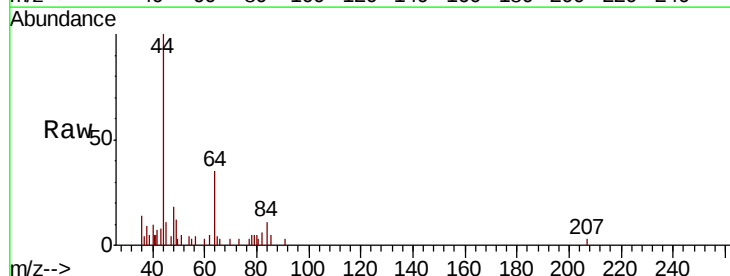
Instrument :
MSVOA_X
ClientSampled :
MH-720

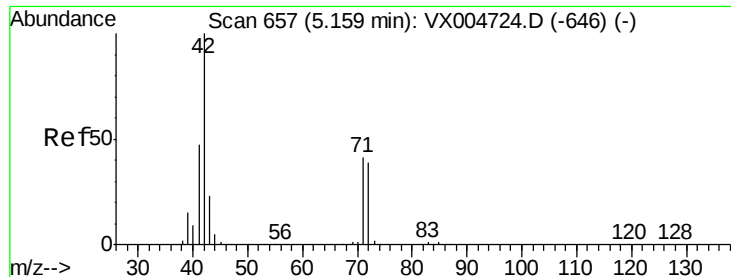
Tot Ion: 43 Resp: 995
Ion Ratio Lower Upper
43 100
74 27.3 19.4 29.2



#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 278
Delta R.T. -0.01 min
Lab File: VX004820.D
Acq: 28 Sep 2018 14:45

Tgt Ion: 84 Resp: 496
Ion Ratio Lower Upper
84 100
49 107.0 101.2 151.8
51 14.0 29.5 44.3#
86 45.6 52.3 78.5#





#29

Tetrahydrofuran

Concen: 0.238 ug/l

RT: 5.18 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX004820.D

Acq: 28 Sep 2018 14:45

Instrument :

MSVOA_X

ClientSampled :

MH-720

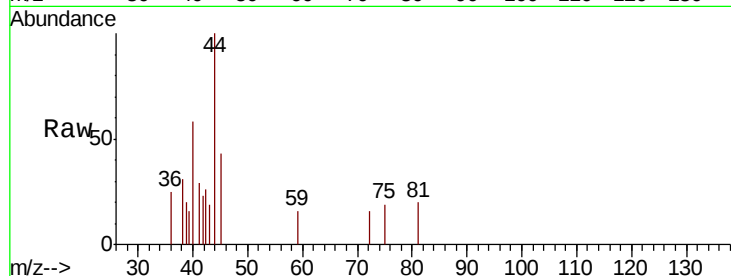
Tot Ion: 42 Resp: 420

Ion Ratio Lower Upper

42 100

72 4.8 37.4 56.0#

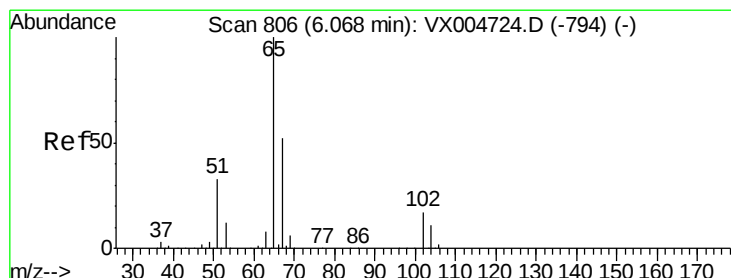
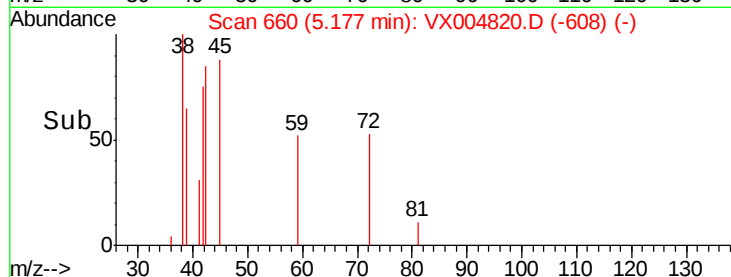
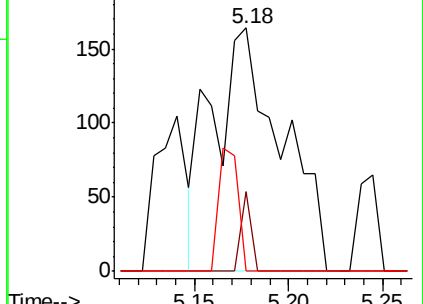
71 14.0 34.5 51.7#



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



#33

1,2-Dichloroethane-d4

Concen: 53.785 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004820.D

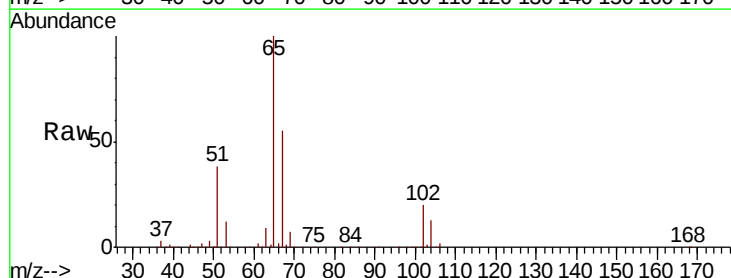
Acq: 28 Sep 2018 14:45

Tgt Ion: 65 Resp: 177306

Ion Ratio Lower Upper

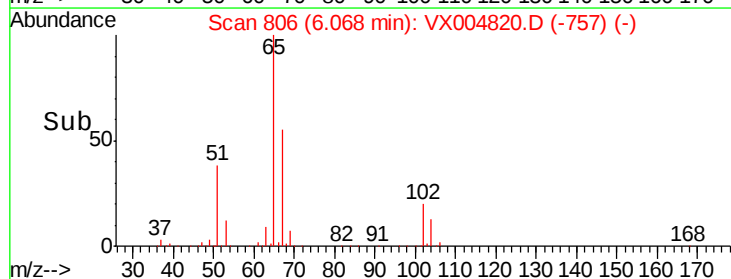
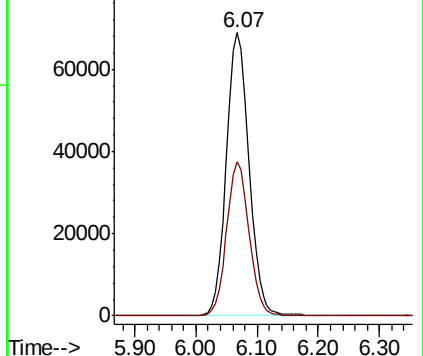
65 100

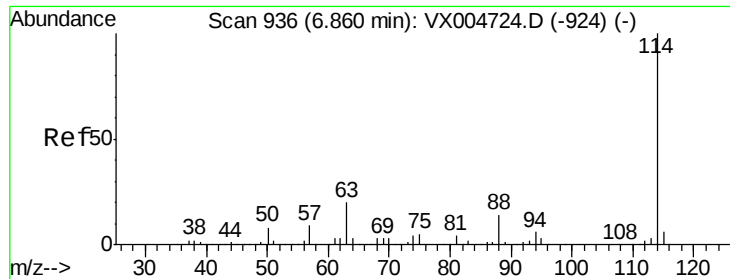
67 53.6 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

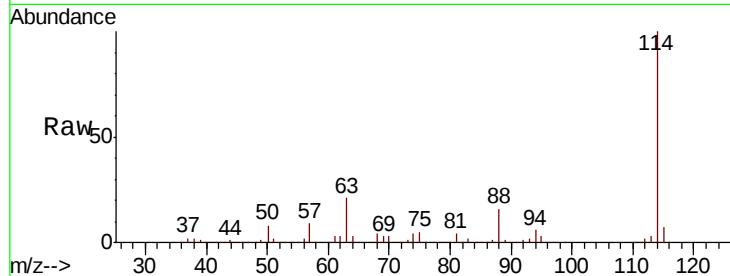




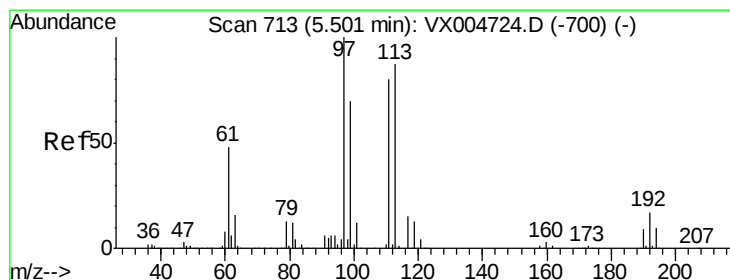
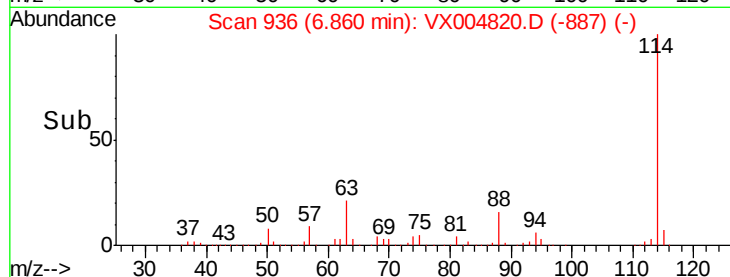
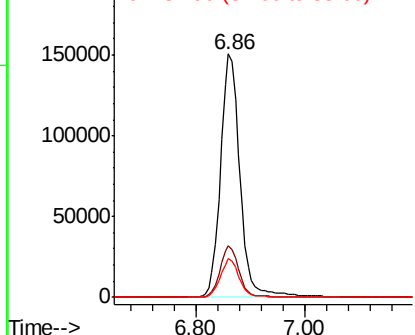
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004820.D
 Acq: 28 Sep 2018 14:45

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-720

Tot Ion:114 Resp: 375193
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 39.0
 88 15.9 0.0 30.4

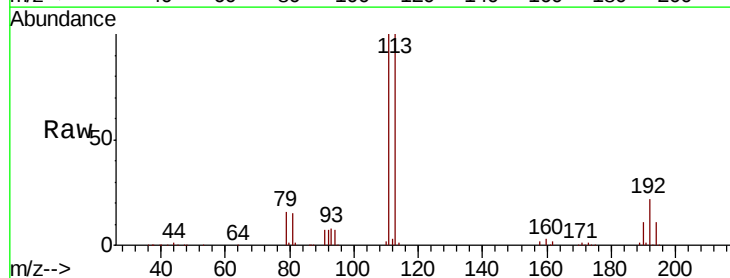


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

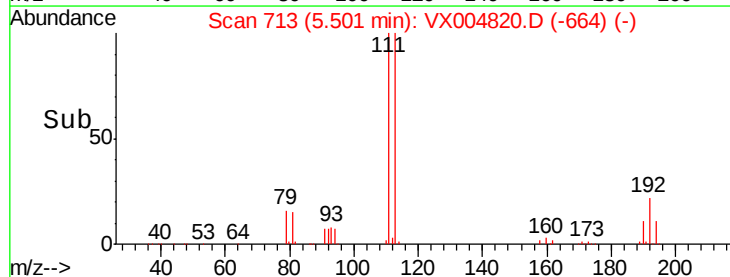
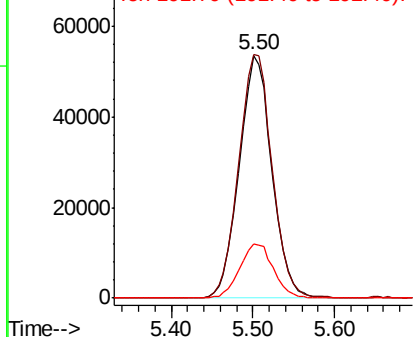


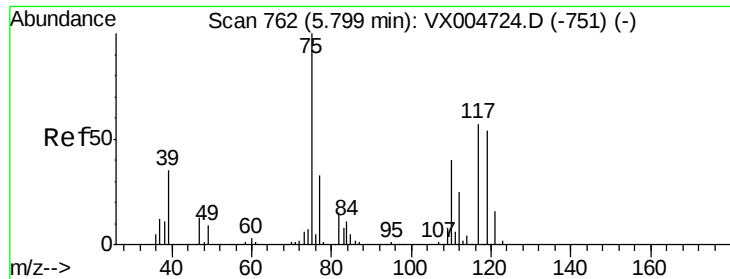
#35
 Dibromofluoromethane
 Concen: 46.802 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX004820.D
 Acq: 28 Sep 2018 14:45

Tgt Ion:113 Resp: 148821
 Ion Ratio Lower Upper
 113 100
 111 102.9 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

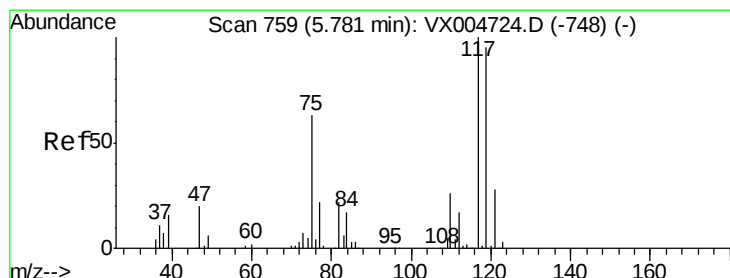
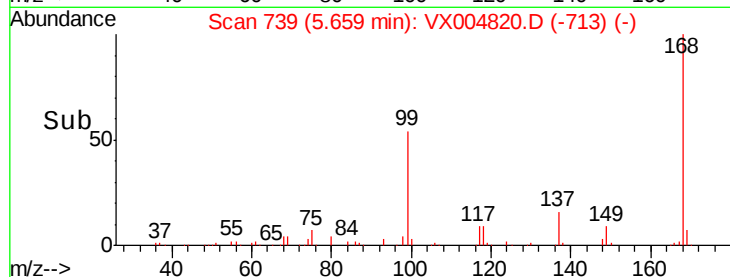
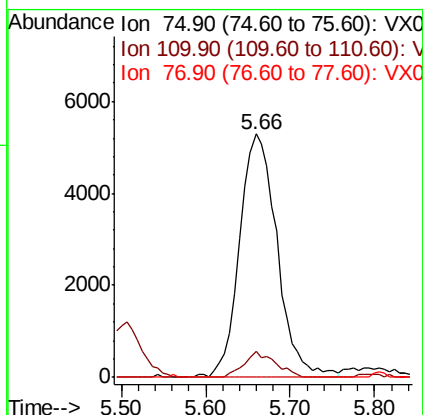
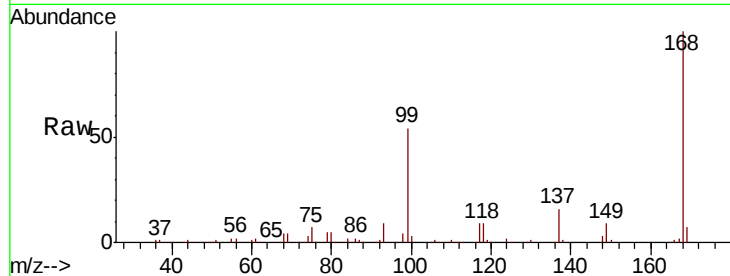




#36
 1,1-Dichloropropene
 Concen: 3.685 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX004820.D
 Acq: 28 Sep 2018 14:45

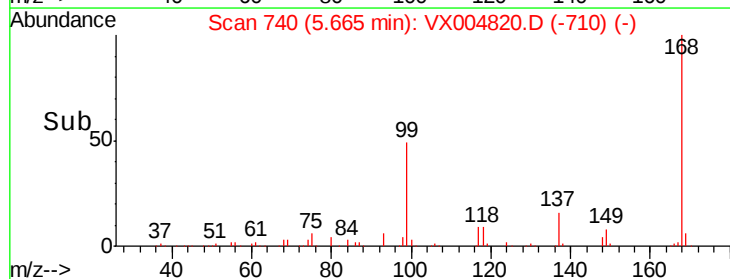
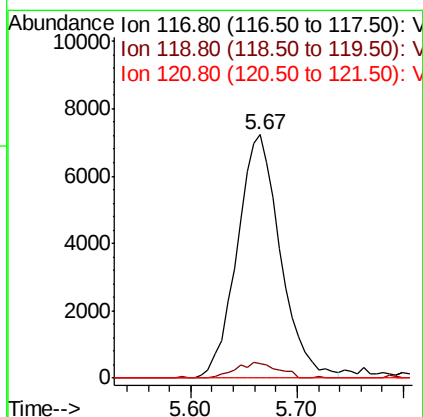
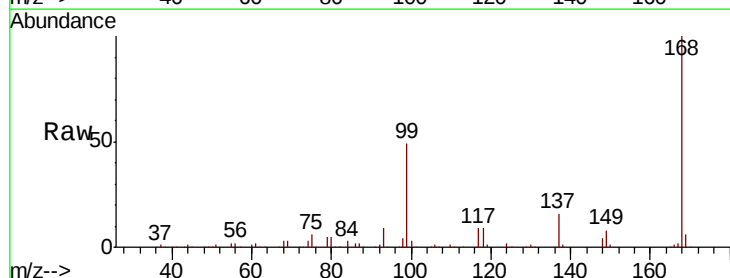
Instrument :
 MSVOA_X
 ClientSampleId :
 MH-720

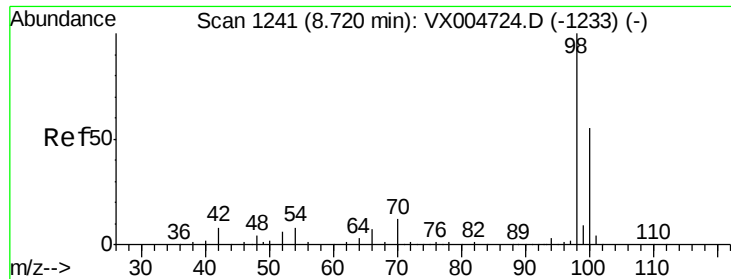
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.0	54.0#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 4.512 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX004820.D
 Acq: 28 Sep 2018 14:45

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.8	78.8	118.2#
121	0.0	24.9	37.3#





#50

Toluene-d8

Concen: 51.514 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. -0.00 min

Lab File: VX004820.D

Acq: 28 Sep 2018 14:45

Instrument :

MSVOA_X

ClientSampleId :

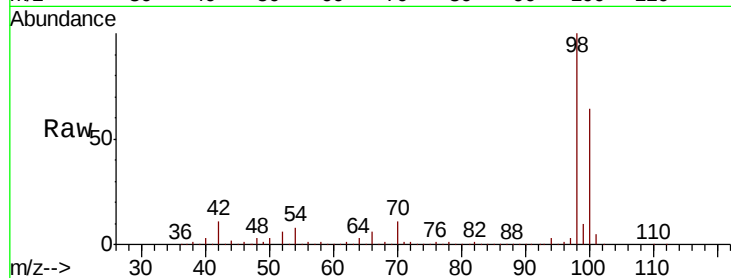
MH-720

Tot Ion: 98 Resp: 544570

Ion Ratio Lower Upper

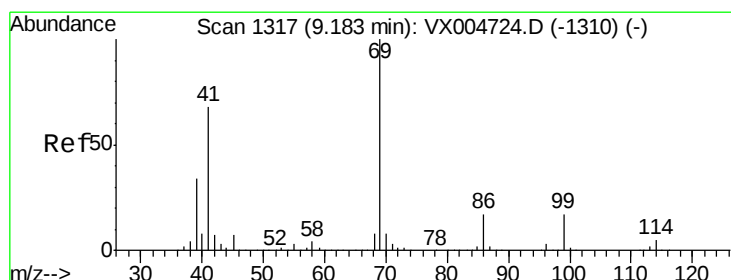
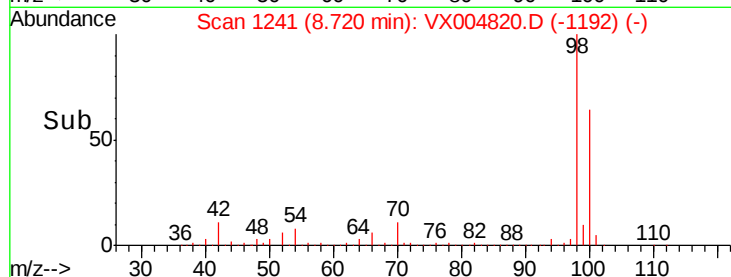
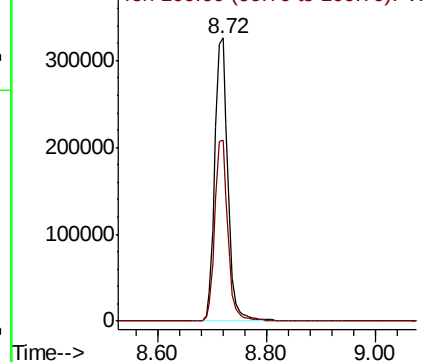
98 100

100 63.5 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#56

Ethyl methacrylate

Concen: 2.893 ug/l

RT: 9.17 min Scan# 1315

Delta R.T. -0.01 min

Lab File: VX004820.D

Acq: 28 Sep 2018 14:45

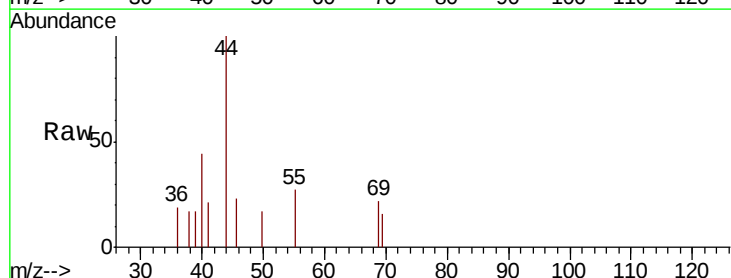
Tgt Ion: 69 Resp: 175

Ion Ratio Lower Upper

69 100

41 0.0 51.0 76.4#

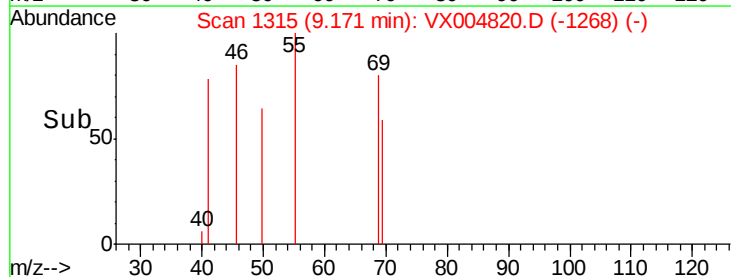
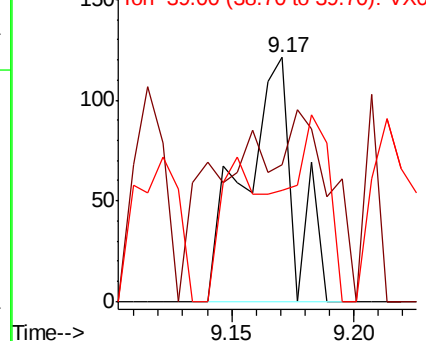
39 59.4 26.1 39.1#

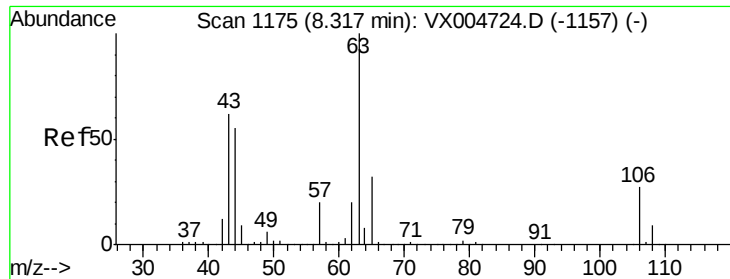


Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#58

2-Chloroethyl Vinyl ether

Concen: 14.256 ug/l

RT: 8.22 min Scan# 1159

Delta R.T. -0.10 min

Lab File: VX004820.D

Acq: 28 Sep 2018 14:45

Instrument :

MSVOA_X

ClientSampleId :

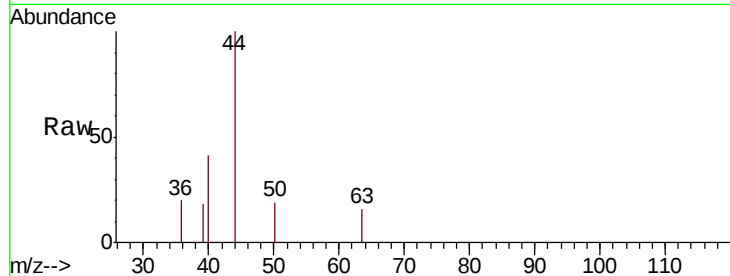
MH-720

Tot Ion: 63 Resp: 41

Ion Ratio Lower Upper

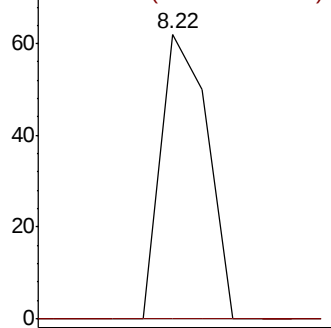
63 100

106 0.0 23.9 35.9#

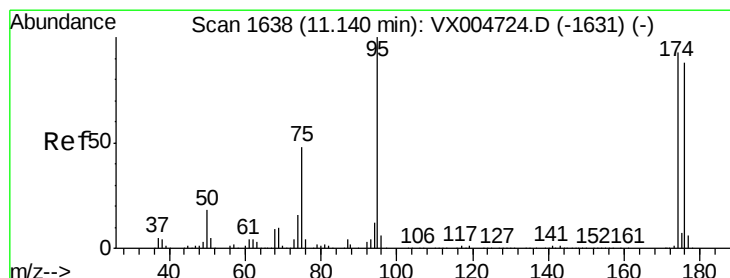
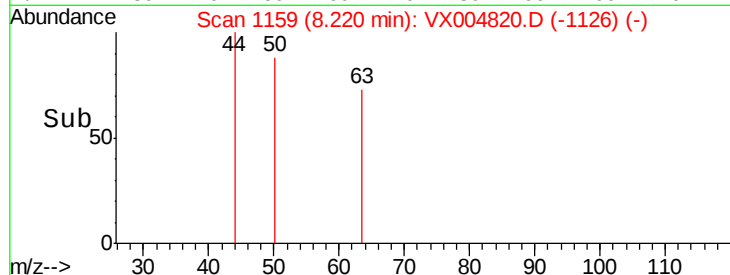


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V



Time-->



#62

4-Bromofluorobenzene

Concen: 51.667 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX004820.D

Acq: 28 Sep 2018 14:45

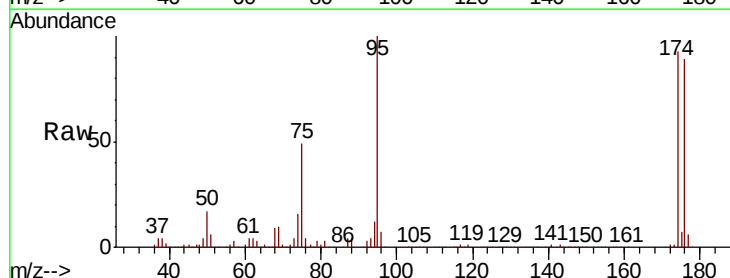
Tgt Ion: 95 Resp: 196768

Ion Ratio Lower Upper

95 100

174 91.2 0.0 185.2

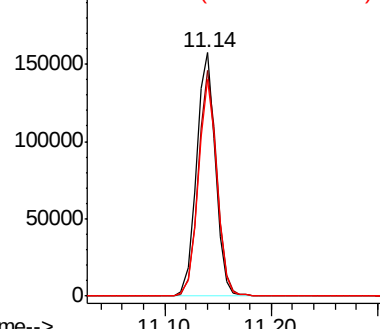
176 87.8 0.0 178.6



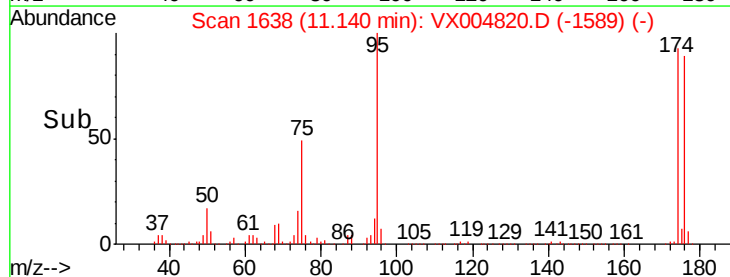
Abundance Ion 94.90 (94.60 to 95.60): VX0

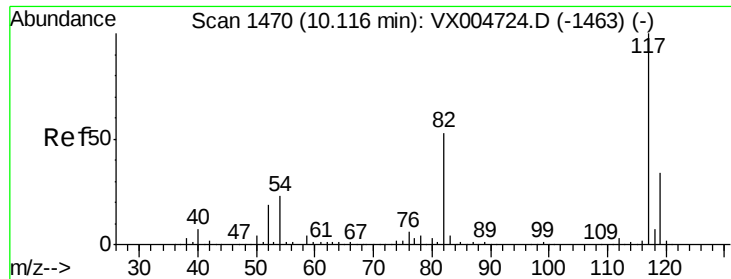
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time-->

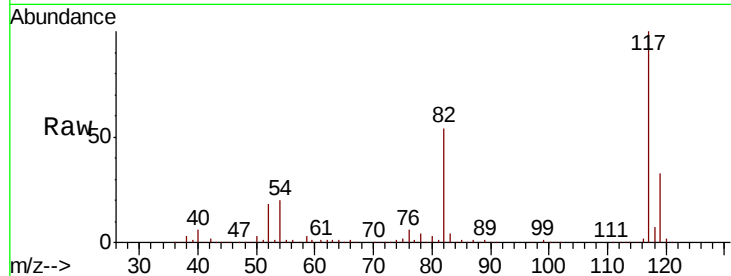




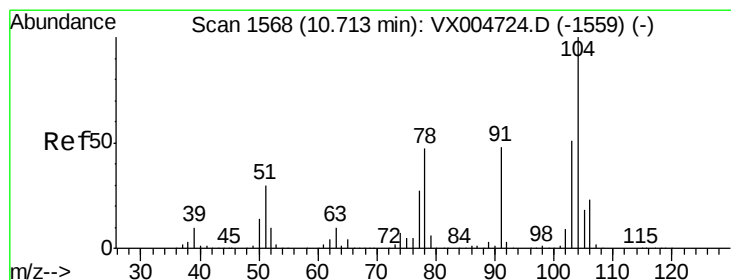
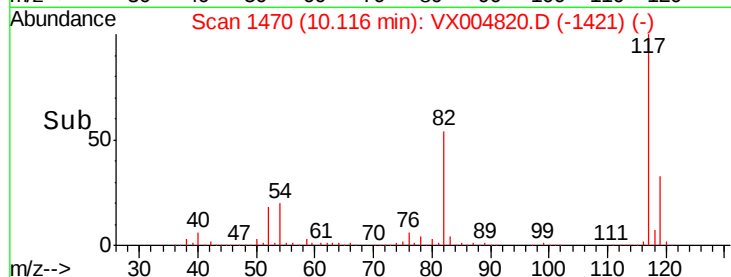
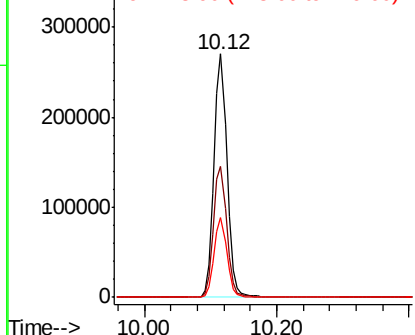
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004820.D
Acq: 28 Sep 2018 14:45

Instrument :
MSVOA_X
ClientSampleId :
MH-720

Tot Ion:117 Resp: 365364
Ion Ratio Lower Upper
117 100
82 53.8 47.8 71.6
119 32.8 29.3 43.9

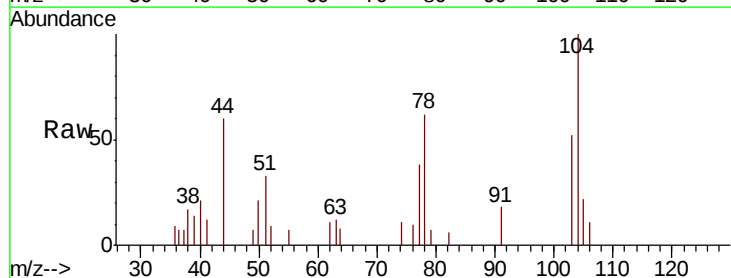


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

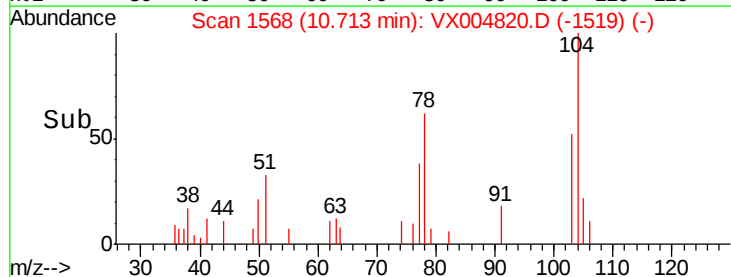
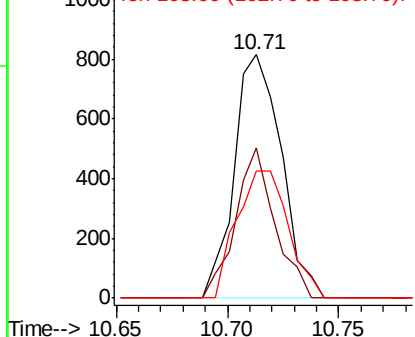


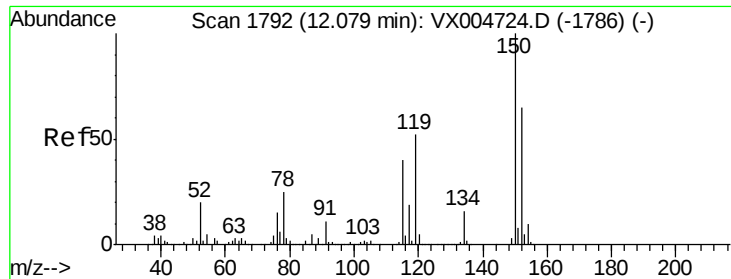
#70
Styrene
Concen: 2.256 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VX004820.D
Acq: 28 Sep 2018 14:45

Tgt Ion:104 Resp: 1204
Ion Ratio Lower Upper
104 100
78 51.4 37.4 56.0
103 57.1 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: VX004820.D

Acq: 28 Sep 2018 14:45

Instrument :

MSVOA_X

ClientSampled :

MH-720

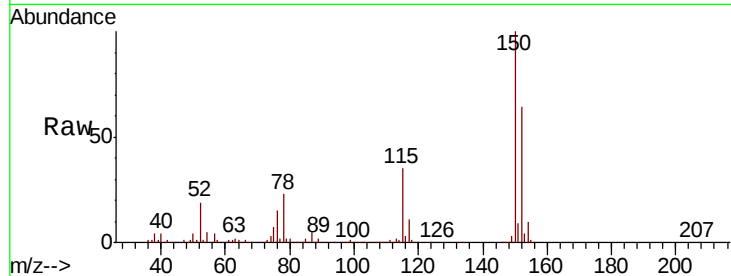
Tot Ion:152 Resp: 204349

Ion Ratio Lower Upper

152 100

115 55.2 39.0 117.0

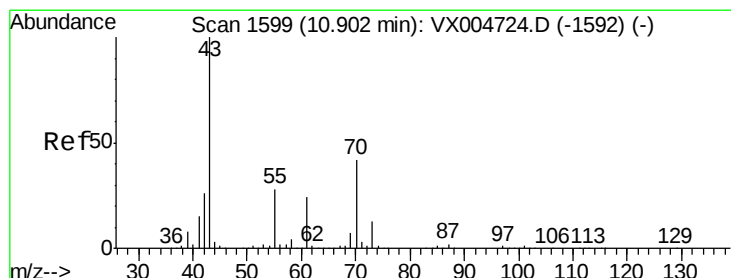
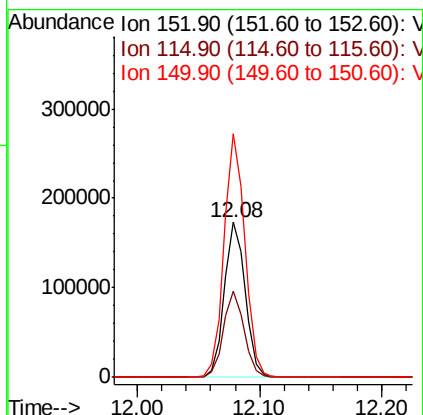
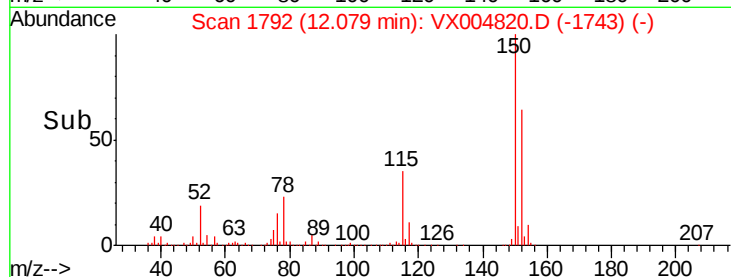
150 156.4 0.0 351.0



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-ethyl acetate

Concen: 1.803 ug/l

RT: 10.90 min Scan# 1599

Delta R.T. 0.00 min

Lab File: VX004820.D

Acq: 28 Sep 2018 14:45

Tgt Ion: 43 Resp: 405

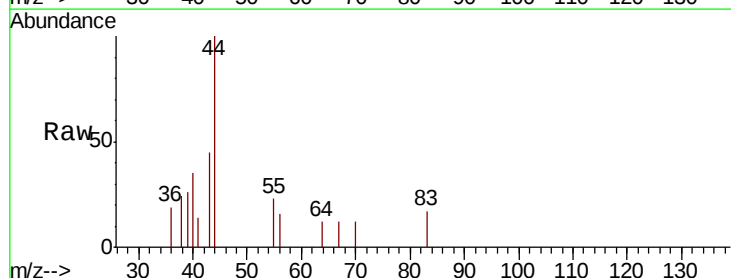
Ion Ratio Lower Upper

43 100

70 0.0 37.4 56.0#

55 42.5 21.8 32.8#

61 0.0 20.6 30.8#

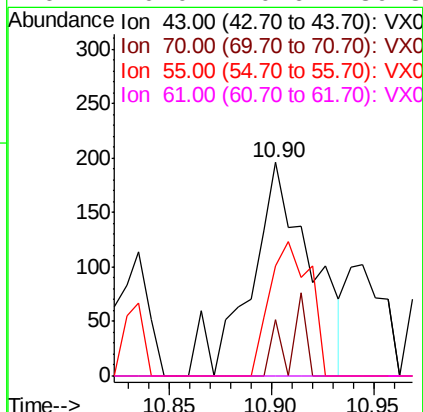
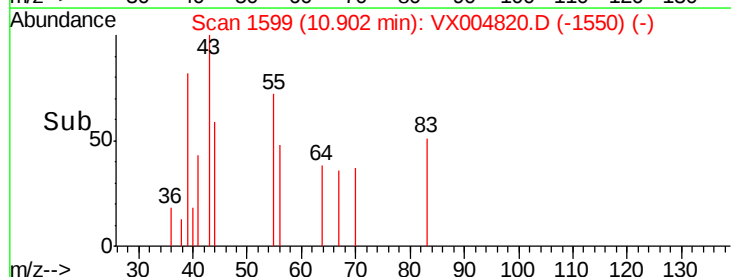


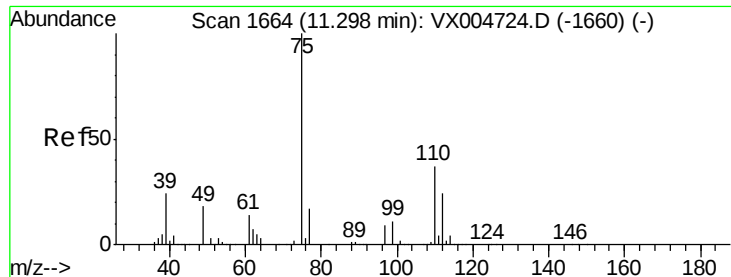
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 21.247 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004820.D

Acq: 28 Sep 2018 14:45

Instrument :

MSVOA_X

ClientSampled :

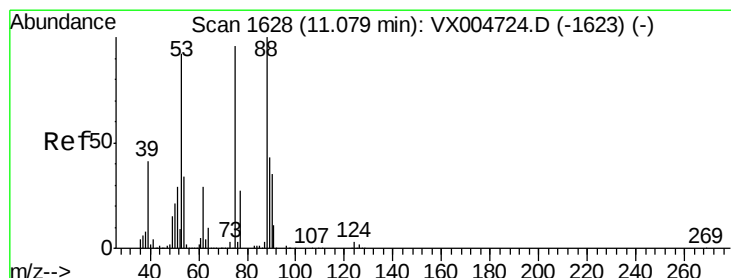
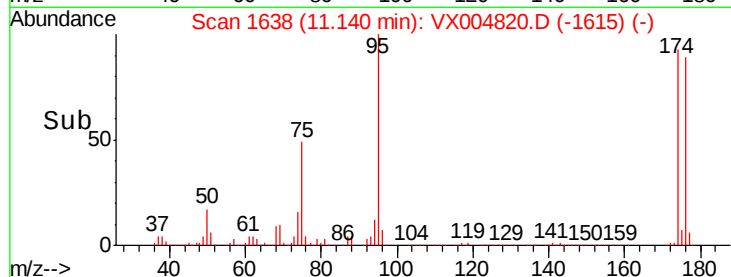
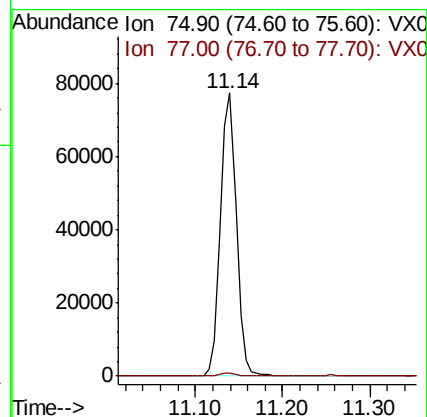
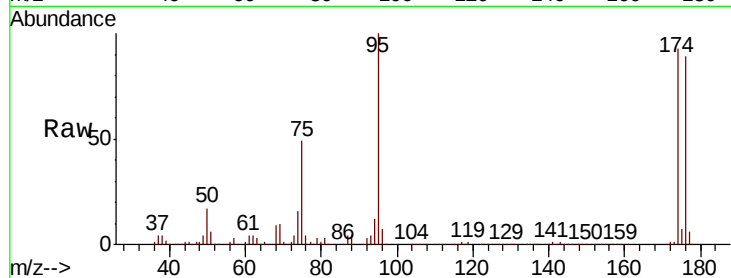
MH-720

Tot Ion: 75 Resp: 97315

Ion Ratio Lower Upper

75 100

77 1.3 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 57.632 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004820.D

Acq: 28 Sep 2018 14:45

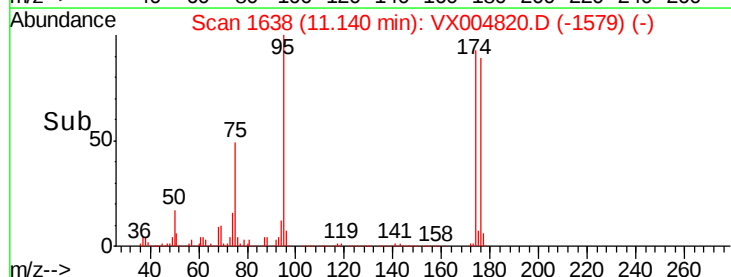
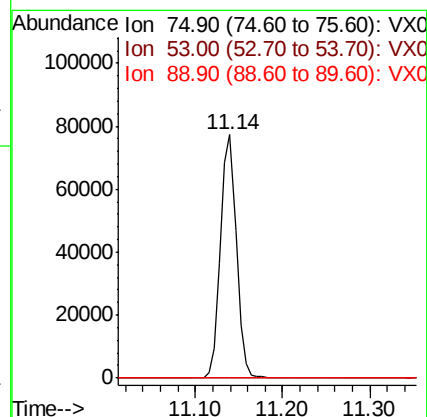
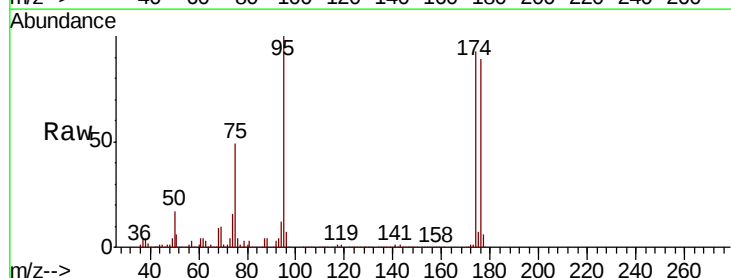
Tgt Ion: 75 Resp: 97315

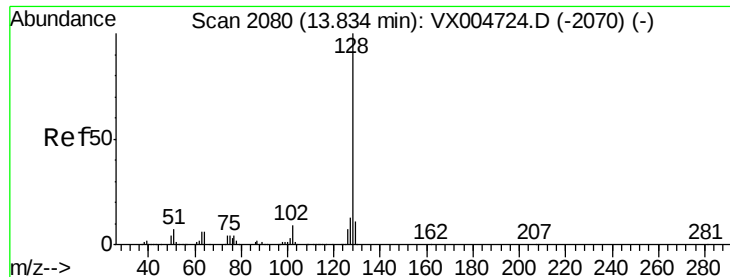
Ion Ratio Lower Upper

75 100

53 0.3 80.1 120.1#

89 0.0 37.2 55.8#





#95

Naphthalene

Concen: 0.820 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX004820.D

Acq: 28 Sep 2018 14:45

Instrument :

MSVOA_X

ClientSampleId :

MH-720

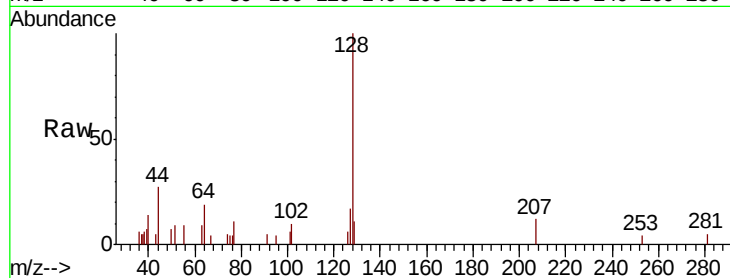
Tot Ion:128 Resp: 1739

Ion Ratio Lower Upper

128 100

127 14.3 10.2 15.2

129 15.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

