

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072718\
 Data File : VX003719.D
 Acq On : 27 Jul 2018 16:44
 Operator : JC/SP
 Sample : VX0727WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0727WBL01

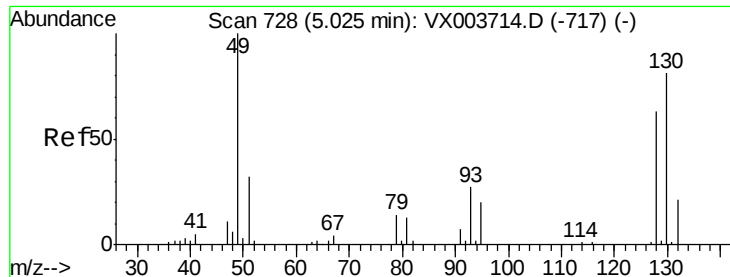
Quant Time: Jul 28 02:28:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X072718W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 27 16:17:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	22052	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	100922	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	94164	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.07	65	46225	28.55	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.17%
60) 4-Bromofluorobenzene	11.14	95	39838	26.28	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	87.60%
63) Toluene-d8	8.71	98	121856	28.73	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	95.77%

Target Compounds						Ovalue
5) Bromomethane	1.65	94	282	0.29	ug/l	82
6) Chloroethane	1.72	64	1198	1.11	ug/l #	44
13) Acrolein	2.29	56	136	0.75	ug/l #	39
14) Acrylonitrile	3.15	53	395	0.43	ug/l #	78
15) Acetone	2.45	58	103	0.41	ug/l #	1
16) Carbon Disulfide	2.57	76	2217	0.63	ug/l	100
18) Methylene Chloride	2.86	84	353	0.24	ug/l #	93
19) trans-1,2-Dichloroethene	3.17	96	326	0.24	ug/l #	78
51) Ethyl methacrylate	8.73	69	379	0.20	ug/l	85
56) Bromoform	11.14	173	417	0.44	ug/l #	1
58) 4-Methyl-2-Pentanone	8.71	43	550	0.31	ug/l #	1
61) Tetrachloroethene	9.34	164	250	0.23	ug/l	90
77) t-1,4-Dichloro-2-butene	11.14	75	20563	37.24	ug/l #	11
83) 1,3-Dichlorobenzene	12.03	146	539	0.20	ug/l	95
84) 1,4-Dichlorobenzene	12.10	146	614	0.23	ug/l	87
88) 1,2-Dibromo-3-Chloropropan	12.82	75	127	0.31	ug/l #	1
89) 1,2,4-Trichlorobenzene	13.65	180	503	0.27	ug/l	90
90) Hexachlorobutadiene	13.79	225	259	0.30	ug/l	88

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



#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 5.02 min Scan# 727

Delta R.T. -0.01 min

Lab File: VX003719.D

Acq: 27 Jul 2018 16:44

Instrument :

MSVOA_X

ClientSampleId :

VX0727WBL01

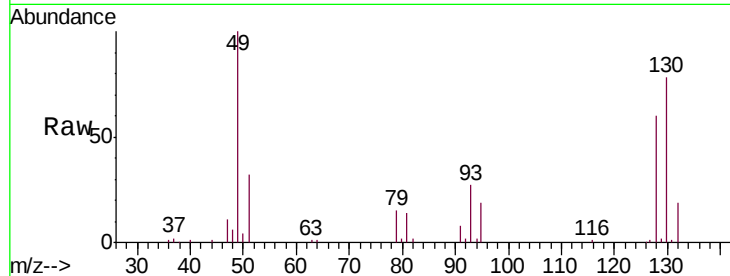
Tot Ion:128 Resp: 22052

Ion Ratio Lower Upper

128 100

49 166.2 0.0 423.0

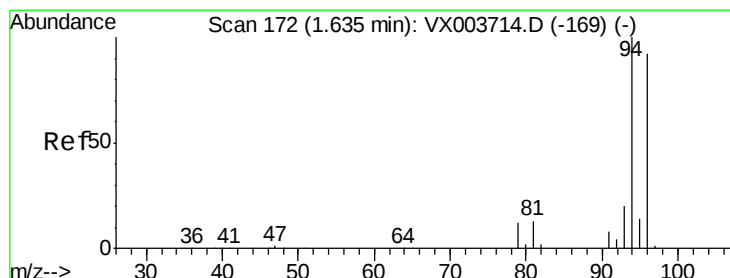
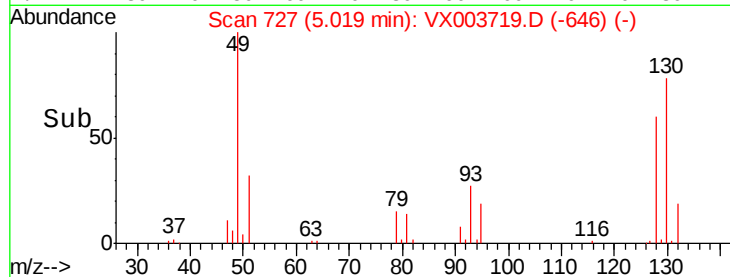
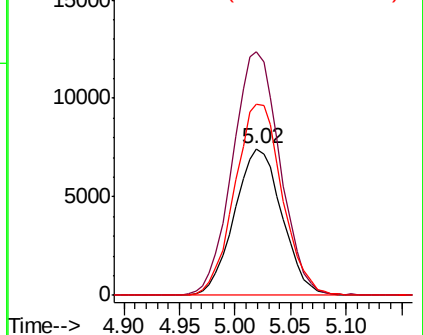
130 131.0 0.0 324.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#5

Bromomethane

Concen: 0.29 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003719.D

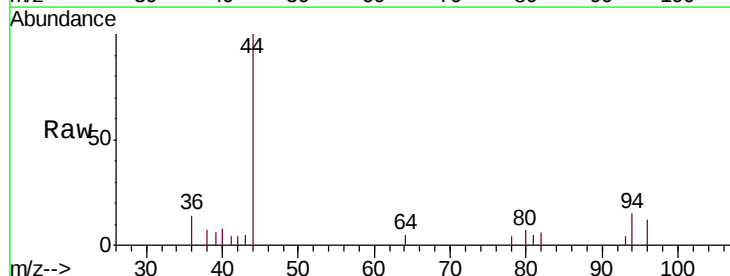
Acq: 27 Jul 2018 16:44

Tgt Ion: 94 Resp: 282

Ion Ratio Lower Upper

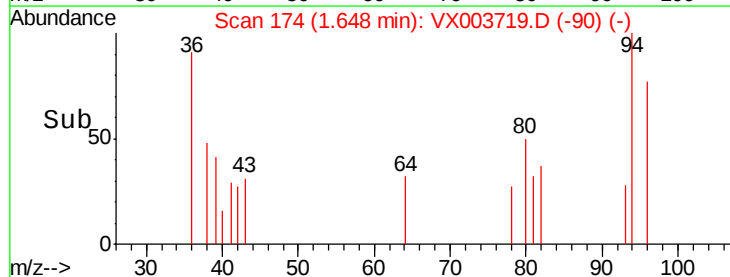
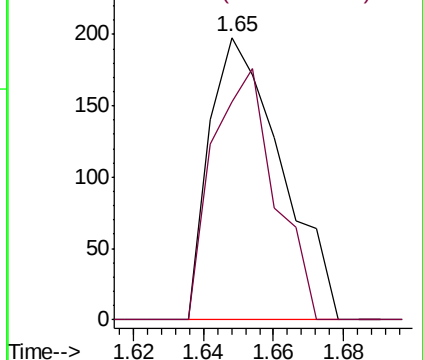
94 100

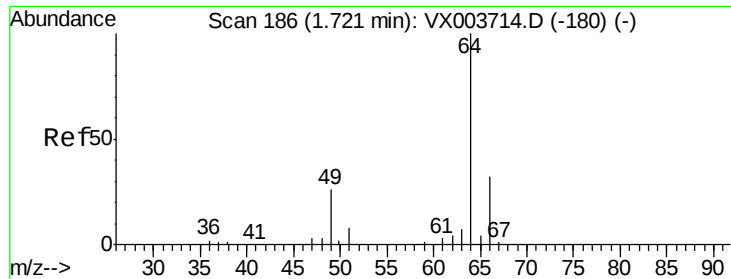
96 77.3 75.7 113.5



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0





#6

Chloroethane

Concen: 1.11 ug/l

RT: 1.72 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX003719.D

Acq: 27 Jul 2018 16:44

Instrument :

MSVOA_X

ClientSampleId :

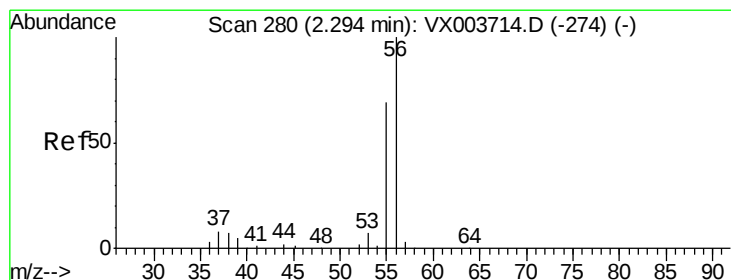
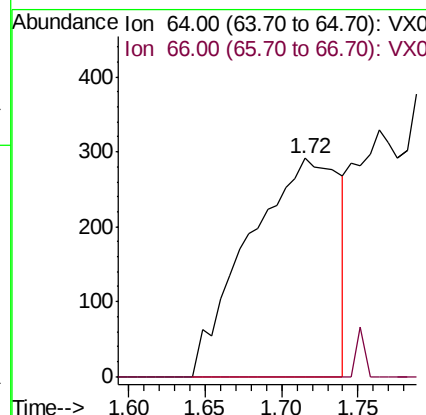
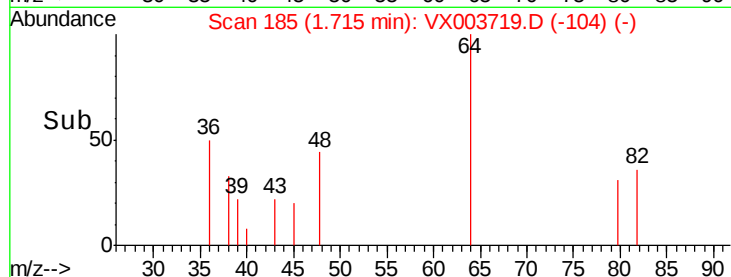
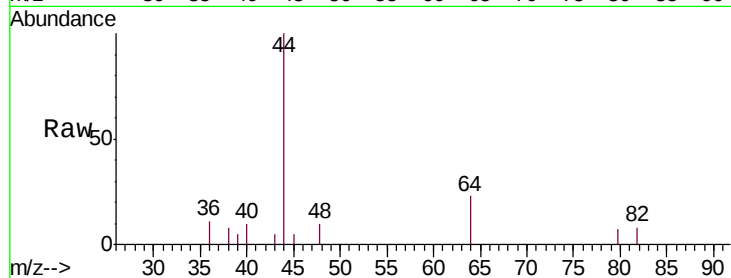
VX0727WBL01

Tot Ion: 64 Resp: 1198

Ion Ratio Lower Upper

64 100

66 0.0 24.3 36.5#



#13

Acrolein

Concen: 0.75 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX003719.D

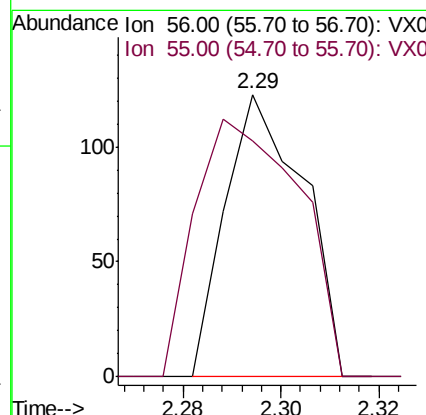
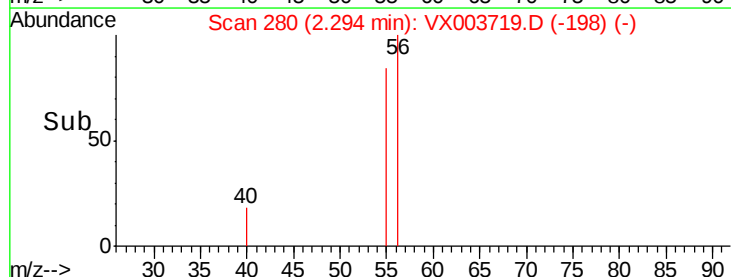
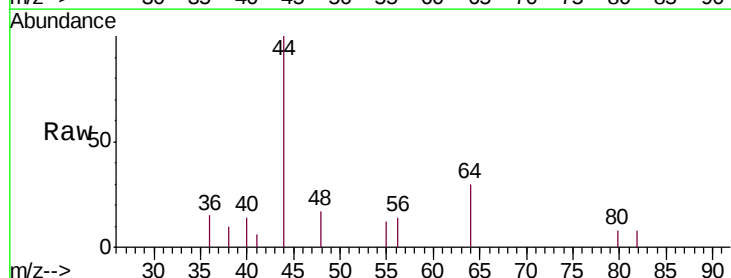
Acq: 27 Jul 2018 16:44

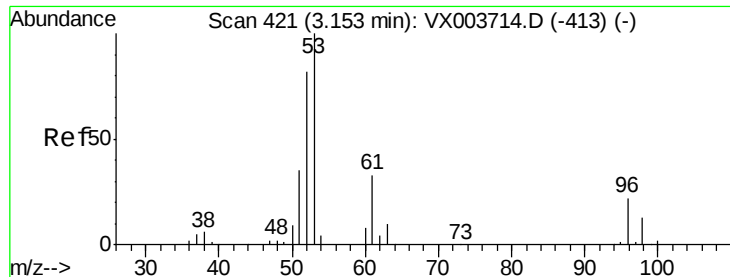
Tgt Ion: 56 Resp: 136

Ion Ratio Lower Upper

56 100

55 122.1 57.3 85.9#





#14

Acrylonitrile

Concen: 0.43 ug/l

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX003719.D

Acq: 27 Jul 2018 16:44

Instrument :

MSVOA_X

ClientSampled :

VX0727WBL01

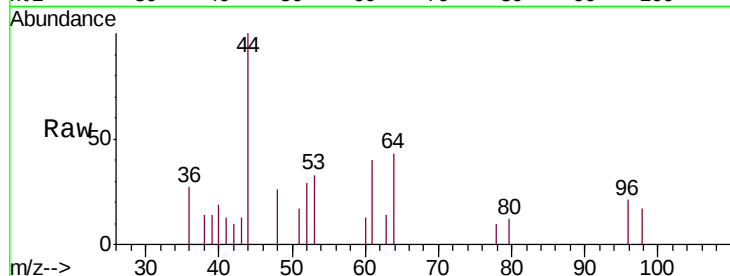
Tot Ion: 53 Resp: 395

Ion Ratio Lower Upper

53 100

52 93.2 41.5 124.6

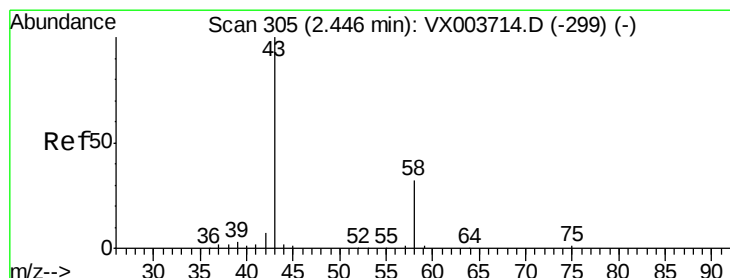
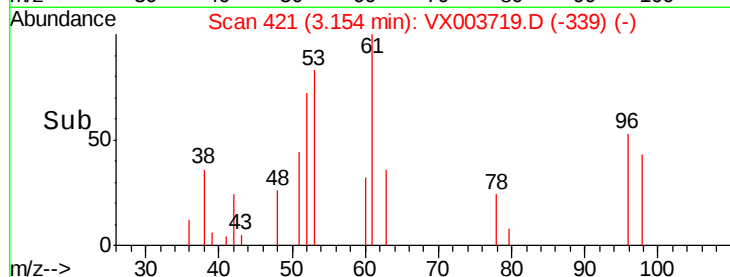
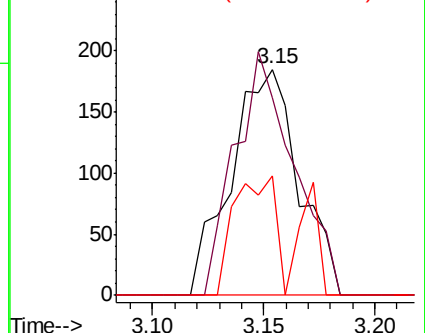
51 9.1 17.9 53.8#



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



#15

Acetone

Concen: 0.41 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003719.D

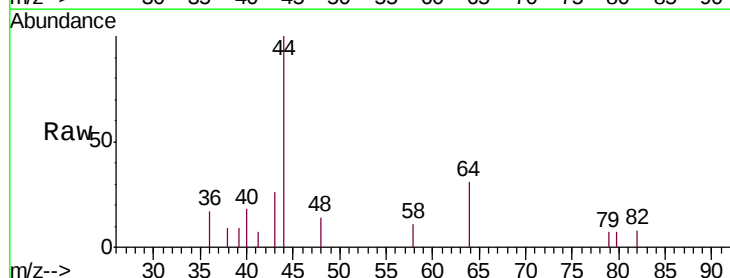
Acq: 27 Jul 2018 16:44

Tgt Ion: 58 Resp: 103

Ion Ratio Lower Upper

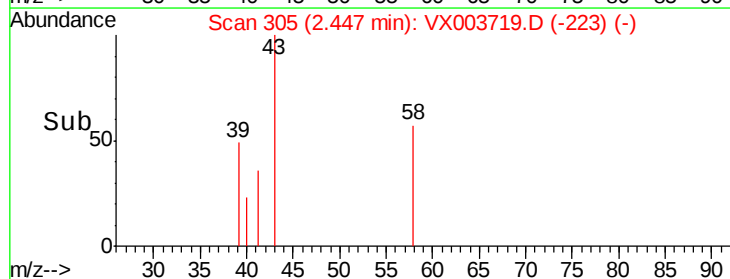
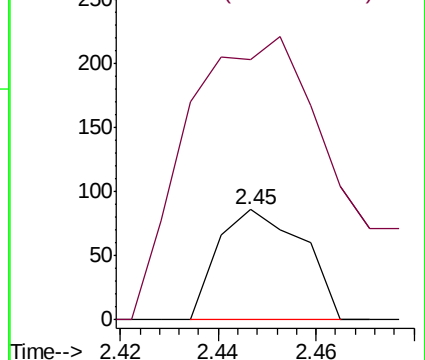
58 100

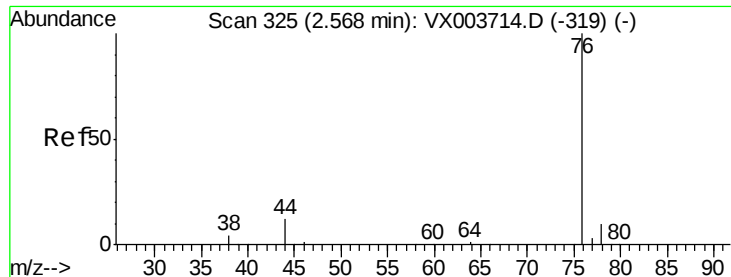
43 115.1 278.8 418.2#



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0





#16

Carbon Disulfide

Concen: 0.63 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX003719.D

Acq: 27 Jul 2018 16:44

Instrument :

MSVOA_X

ClientSampleId :

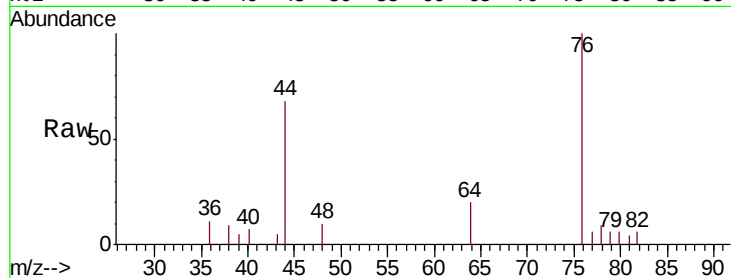
VX0727WBL01

Tot Ion: 76 Resp: 2217

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0

2.57

1500

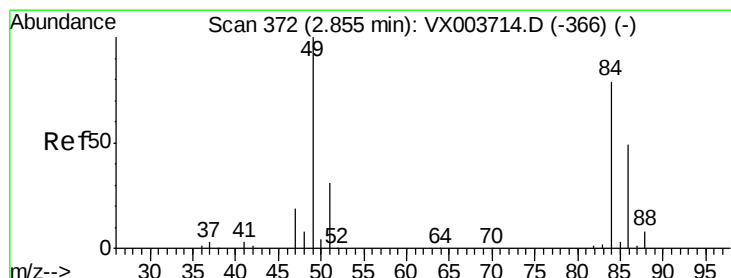
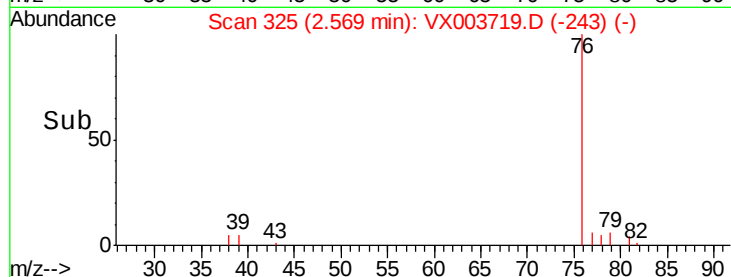
1000

500

0

2.55 2.60

Time-->



#18

Methylene Chloride

Concen: 0.24 ug/l

RT: 2.86 min Scan# 372

Delta R.T. 0.00 min

Lab File: VX003719.D

Acq: 27 Jul 2018 16:44

Tgt Ion: 84 Resp: 353

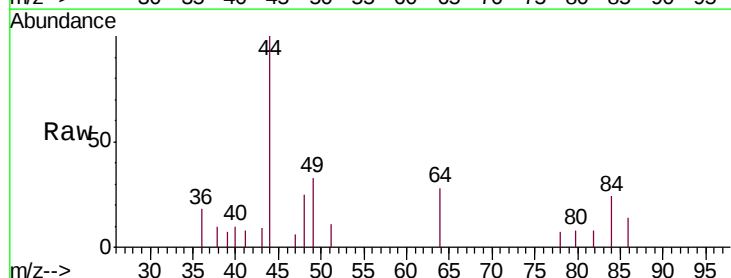
Ion Ratio Lower Upper

84 100

49 136.9 104.7 157.1

51 47.2 31.0 46.4#

86 59.0 50.8 76.2



Abundance Ion 84.00 (83.70 to 84.70): VX0

Ion 49.00 (48.70 to 49.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

Ion 86.00 (85.70 to 86.70): VX0

400

300

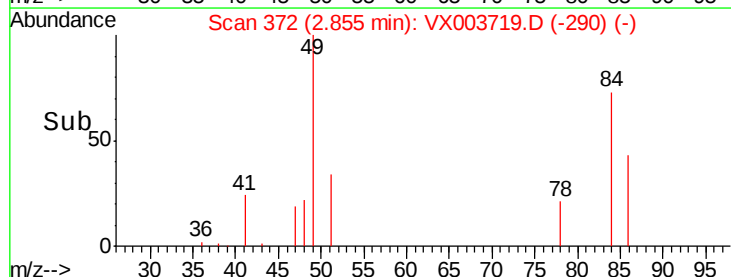
200

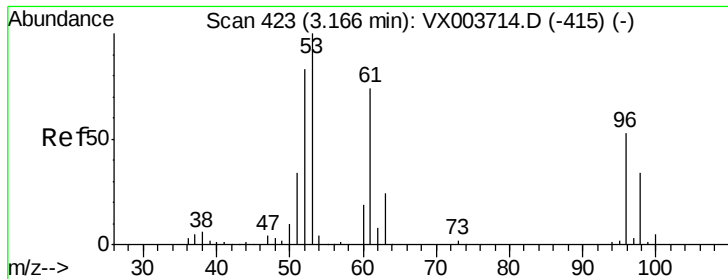
100

0

2.82 2.84 2.86 2.88

Time-->





#19

trans-1,2-Dichloroethene

Concen: 0.24 ug/l

RT: 3.17 min Scan# 423

Delta R.T. 0.00 min

Lab File: VX003719.D

Acq: 27 Jul 2018 16:44

Instrument :

MSVOA_X

ClientSampleId :

VX0727WBL01

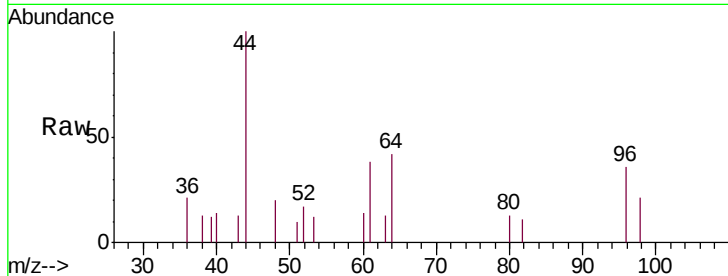
Tot Ion: 96 Resp: 326

Ion Ratio Lower Upper

96 100

61 107.7 114.6 172.0#

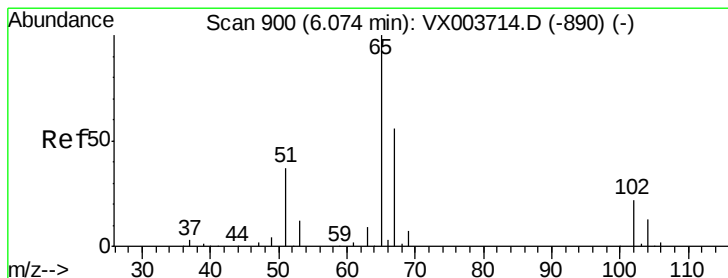
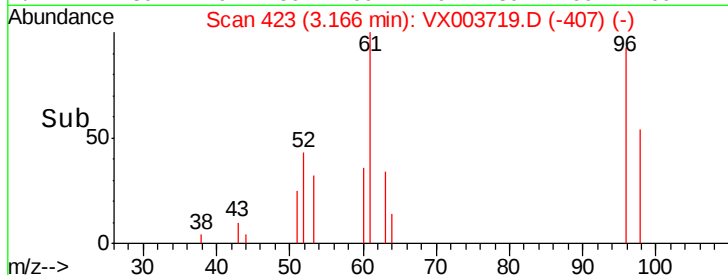
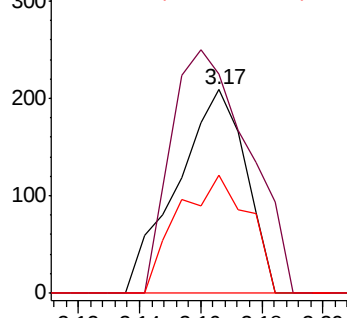
98 57.9 51.3 76.9



Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 98.00 (97.70 to 98.70): VX0



#27

1,2-Dichloroethane-d4

Concen: 28.55 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX003719.D

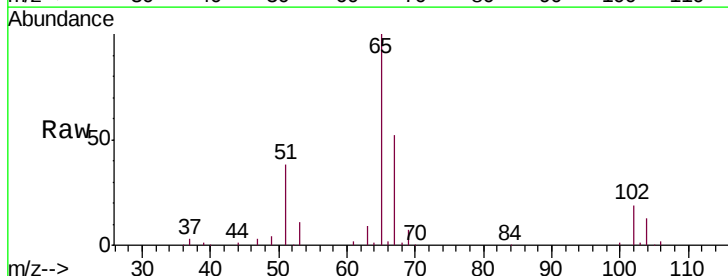
Acq: 27 Jul 2018 16:44

Tgt Ion: 65 Resp: 46225

Ion Ratio Lower Upper

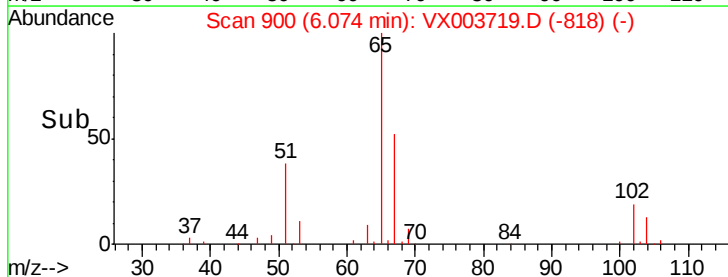
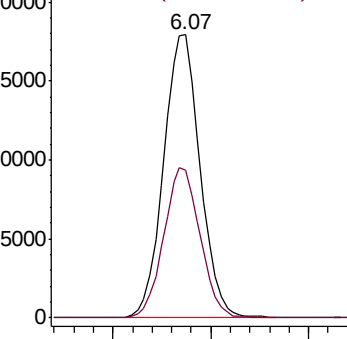
65 100

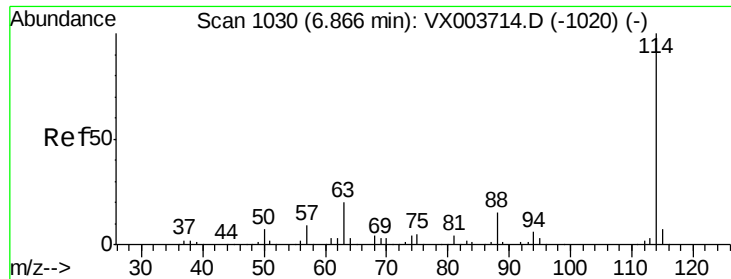
67 52.7 40.9 61.3



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

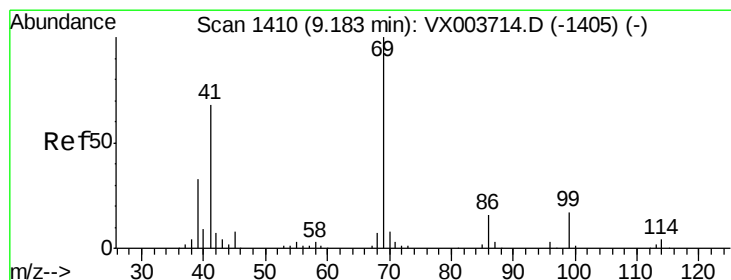
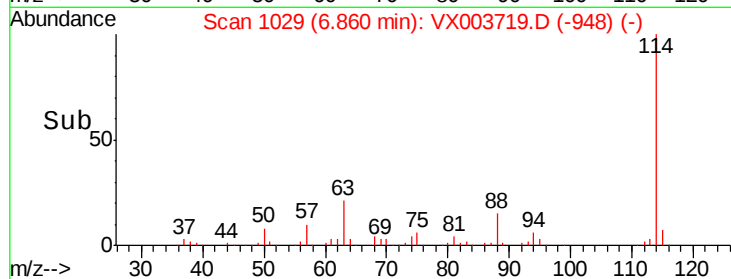
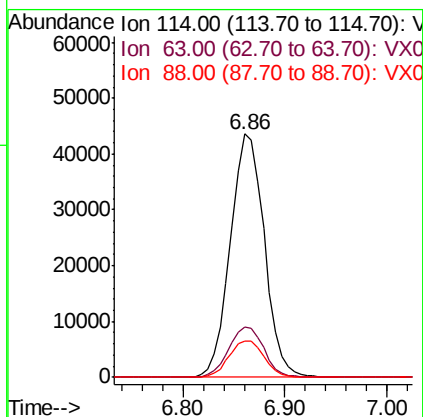
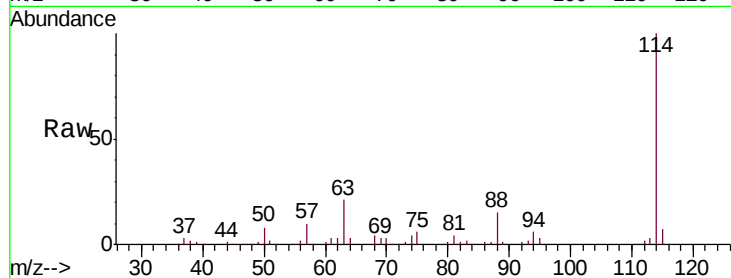




#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. -0.01 min
 Lab File: VX003719.D
 Acq: 27 Jul 2018 16:44

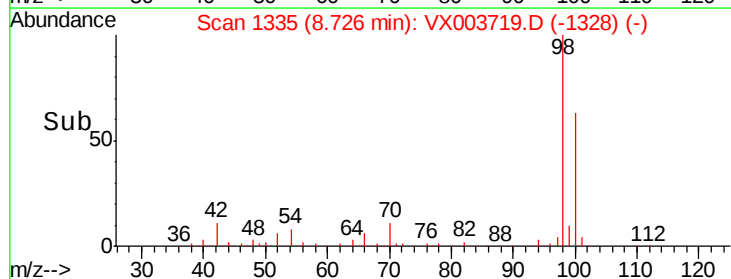
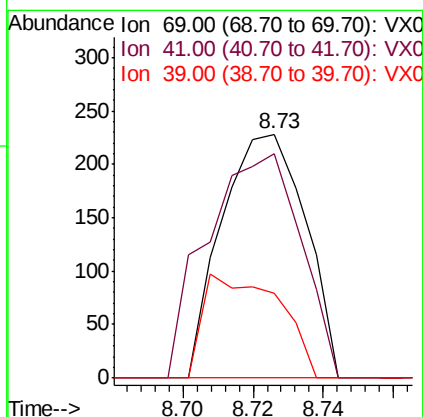
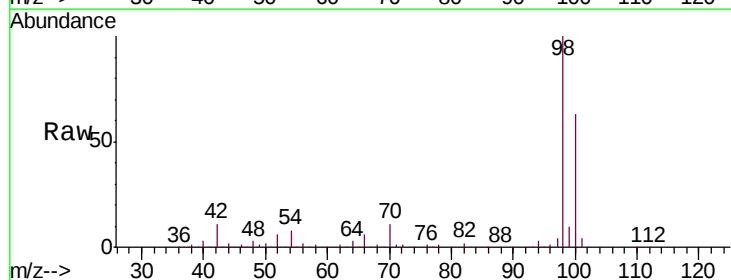
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0727WBL01

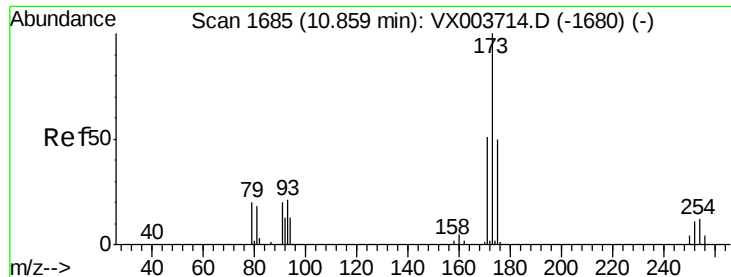
Tot Ion:114 Resp: 100922
 Ion Ratio Lower Upper
 114 100
 63 21.4 17.1 25.7
 88 15.5 12.6 19.0



#51
 Ethyl methacrylate
 Concen: 0.20 ug/l
 RT: 8.73 min Scan# 1335
 Delta R.T. -0.46 min
 Lab File: VX003719.D
 Acq: 27 Jul 2018 16:44

Tgt Ion: 69 Resp: 379
 Ion Ratio Lower Upper
 69 100
 41 92.1 39.1 117.3
 39 34.6 21.7 65.1





#56

Bromoform

Concen: 0.44 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.28 min

Lab File: VX003719.D

Acq: 27 Jul 2018 16:44

Instrument :

MSVOA_X

ClientSampleId :

VX0727WBL01

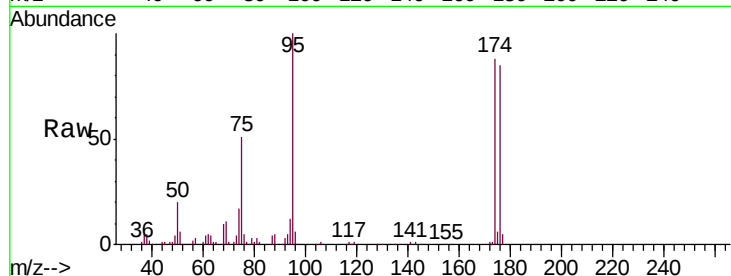
Tot Ion:173 Resp: 417

Ion Ratio Lower Upper

173 100

175 613.7 39.0 58.4#

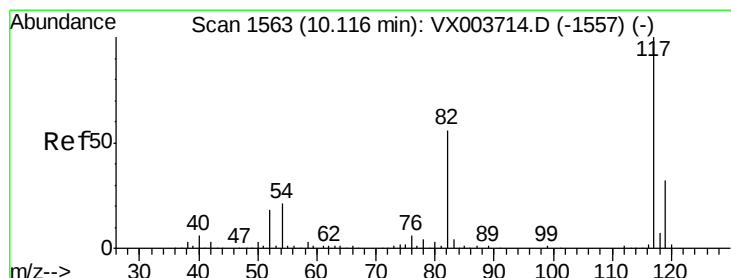
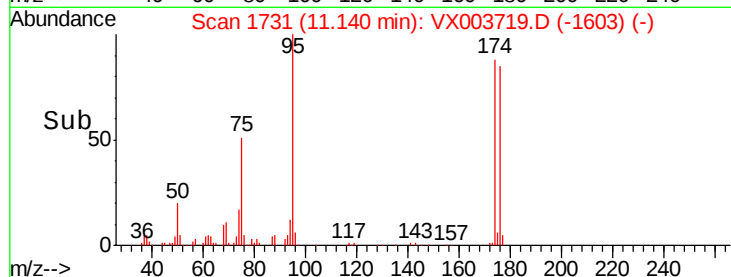
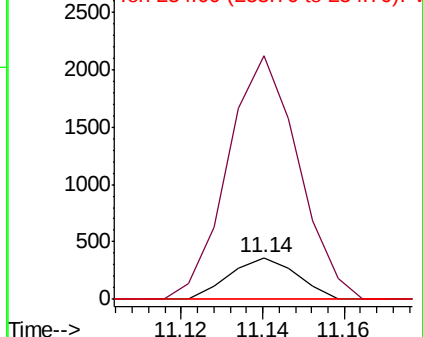
254 0.0 9.6 14.4#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#57

Chlorobenzene-d5

Concen: 30.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX003719.D

Acq: 27 Jul 2018 16:44

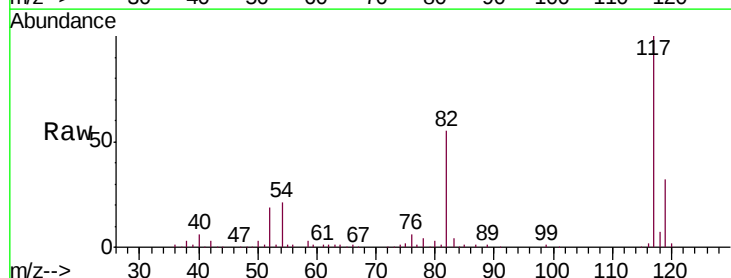
Tgt Ion:117 Resp: 94164

Ion Ratio Lower Upper

117 100

82 55.5 44.3 66.5

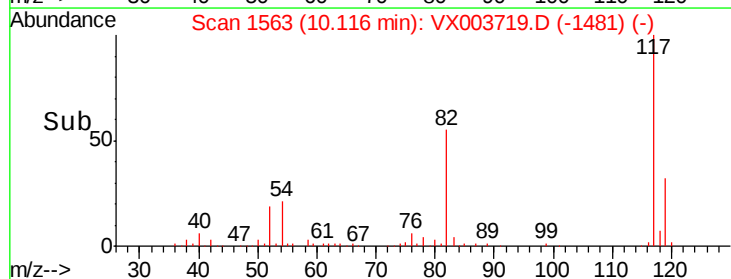
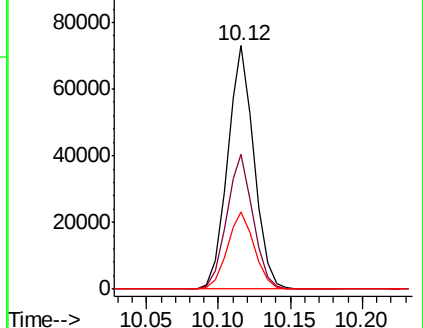
119 32.2 25.7 38.5

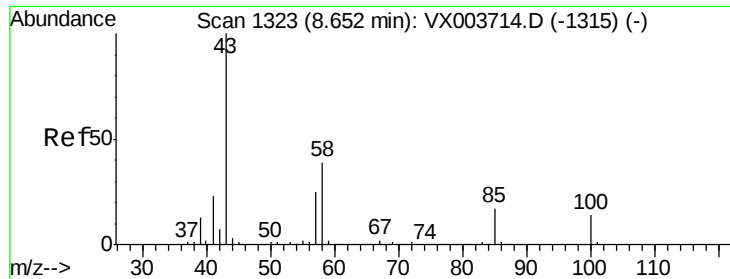


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V

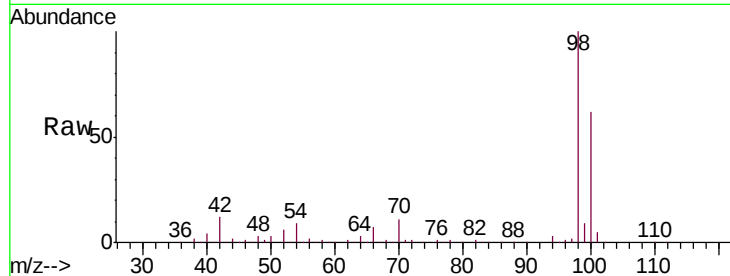




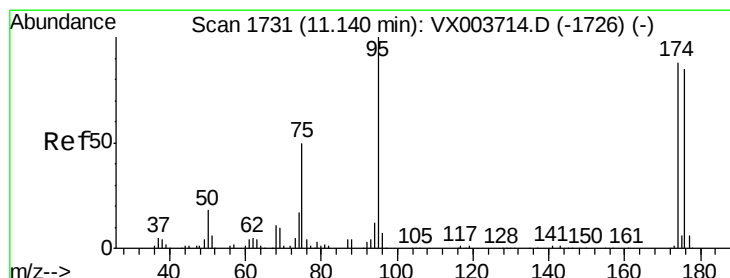
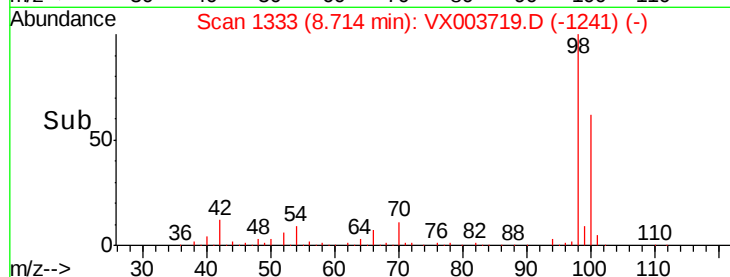
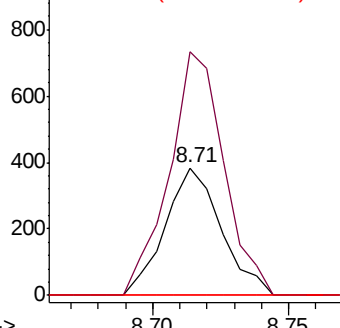
#58
 4-Methyl-2-Pentanone
 Concen: 0.31 ug/l
 RT: 8.71 min Scan# 1333
 Delta R.T. 0.06 min
 Lab File: VX003719.D
 Acq: 27 Jul 2018 16:44

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0727WBL01

Tot Ion: 43 Resp: 550
 Ion Ratio Lower Upper
 43 100
 58 186.2 28.2 42.4#
 85 0.0 12.4 18.6#

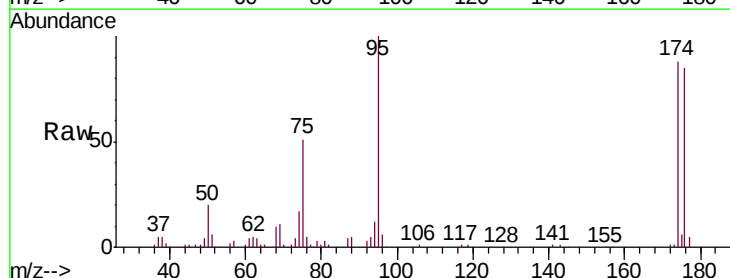


Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0
 Ion 85.00 (84.70 to 85.70): VX0

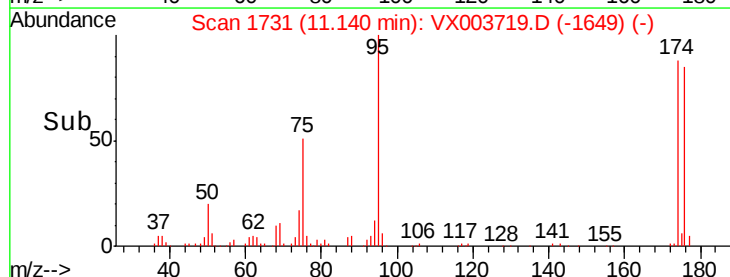
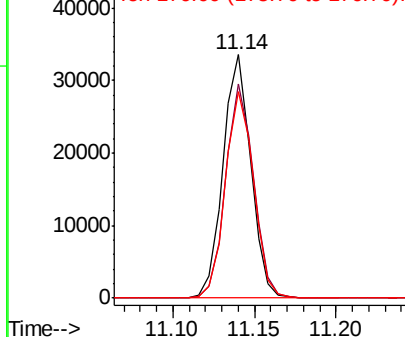


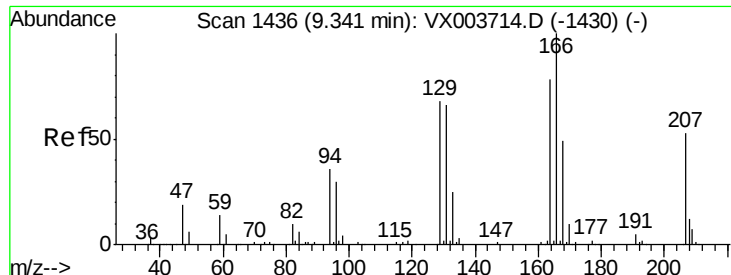
#60
 4-Bromofluorobenzene
 Concen: 26.28 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.00 min
 Lab File: VX003719.D
 Acq: 27 Jul 2018 16:44

Tgt Ion: 95 Resp: 39838
 Ion Ratio Lower Upper
 95 100
 174 88.5 71.8 107.6
 176 85.7 70.1 105.1



Abundance Ion 95.00 (94.70 to 95.70): VX0
 Ion 174.00 (173.70 to 174.70): V
 Ion 176.00 (175.70 to 176.70): V

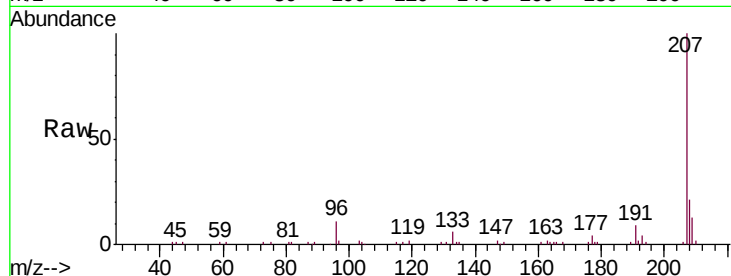




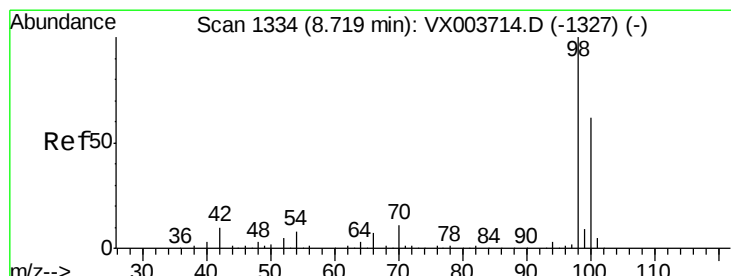
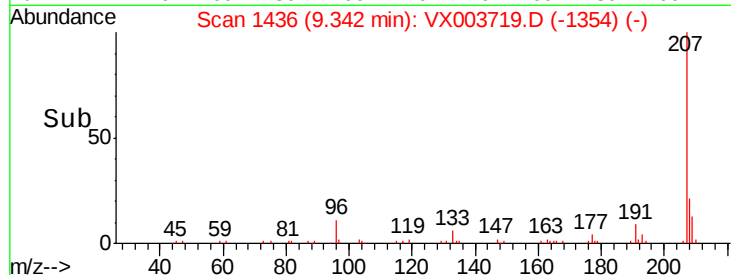
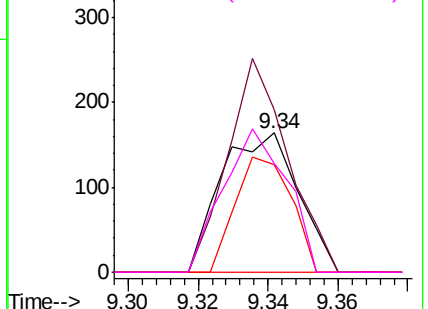
#61
Tetrachloroethene
Concen: 0.23 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. 0.00 min
Lab File: VX003719.D
Acq: 27 Jul 2018 16:44

Instrument :
MSVOA_X
ClientSampleId :
VX0727WBL01

Tot Ion:164 Resp: 250
Ion Ratio Lower Upper
164 100
166 116.5 102.4 153.6
129 77.4 70.1 105.1
131 78.0 69.1 103.7

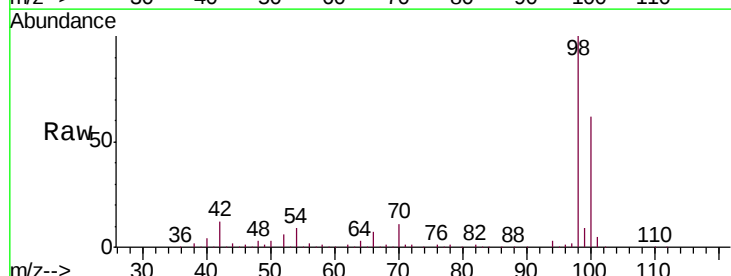


Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V

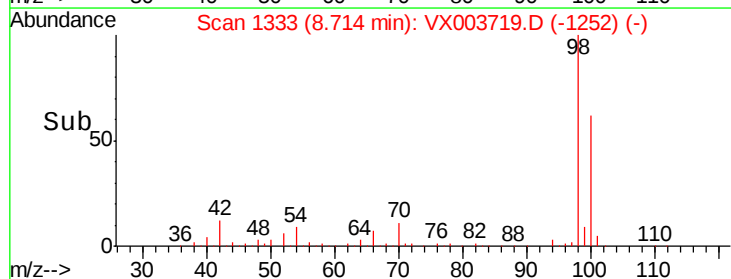
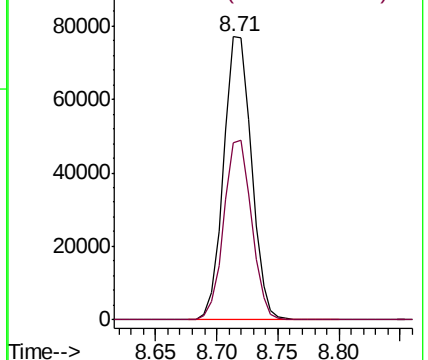


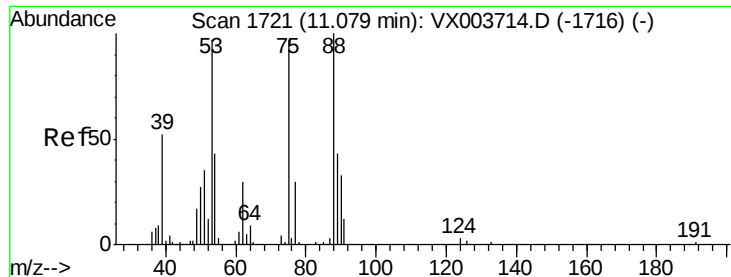
#63
Toluene-d8
Concen: 28.73 ug/l
RT: 8.71 min Scan# 1333
Delta R.T. -0.01 min
Lab File: VX003719.D
Acq: 27 Jul 2018 16:44

Tgt Ion: 98 Resp: 121856
Ion Ratio Lower Upper
98 100
100 63.2 50.8 76.2



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





#77

t-1,4-Dichloro-2-butene

Concen: 37.24 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003719.D

Acq: 27 Jul 2018 16:44

Instrument :

MSVOA_X

ClientSampleId :

VX0727WBL01

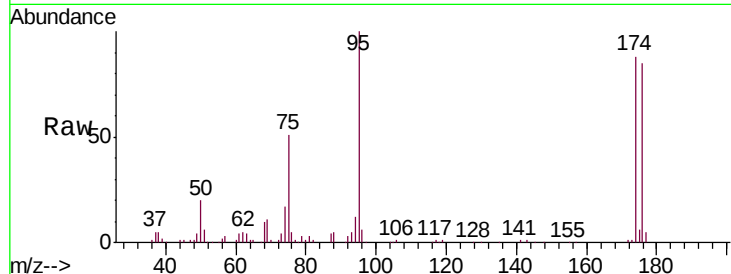
Tot Ion: 75 Resp: 20563

Ion Ratio Lower Upper

75 100

53 0.3 48.3 144.9#

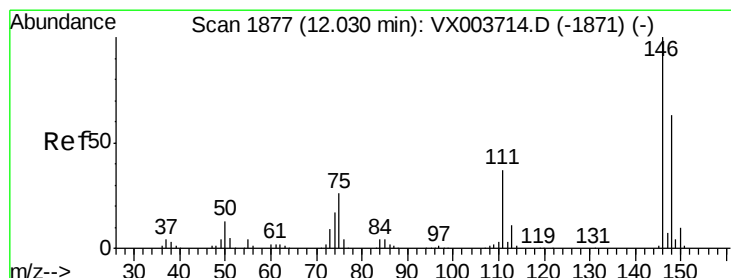
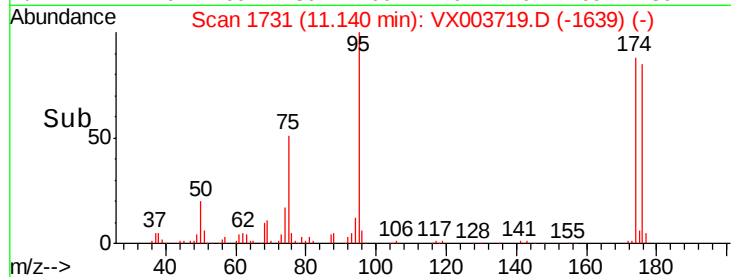
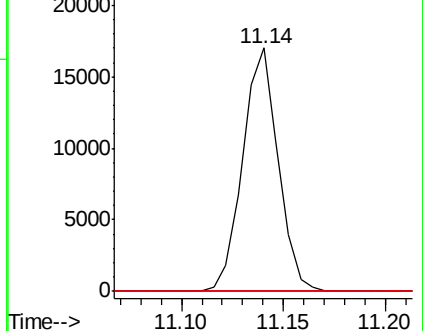
89 0.0 21.8 65.4#



Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 89.00 (88.70 to 89.70): VX0



#83

1,3-Dichlorobenzene

Concen: 0.20 ug/l

RT: 12.03 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VX003719.D

Acq: 27 Jul 2018 16:44

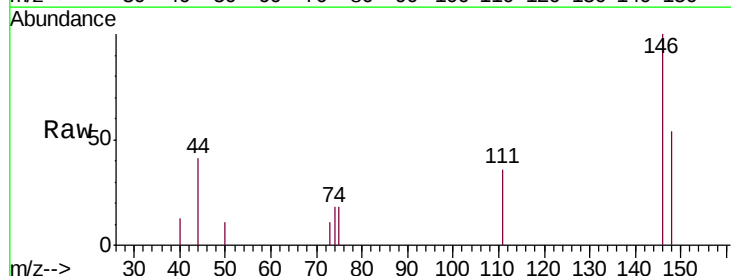
Tgt Ion: 146 Resp: 539

Ion Ratio Lower Upper

146 100

111 32.7 19.1 57.5

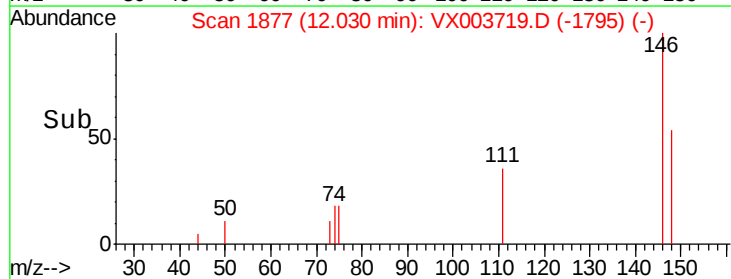
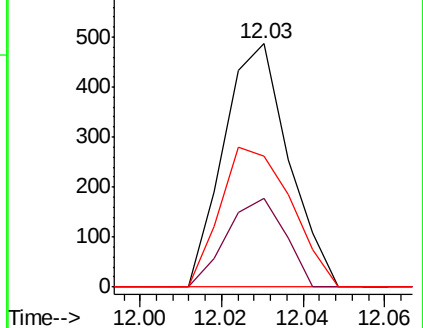
148 62.5 31.9 95.7

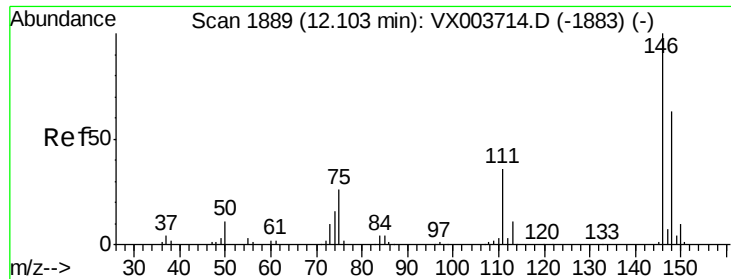


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

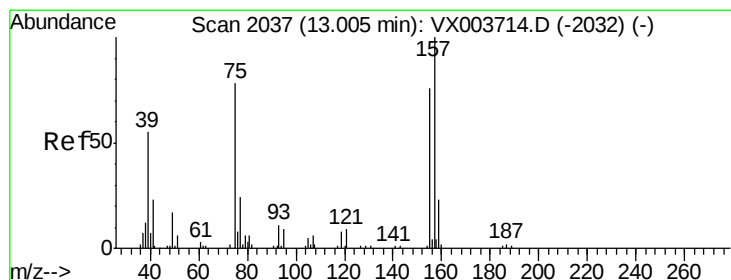
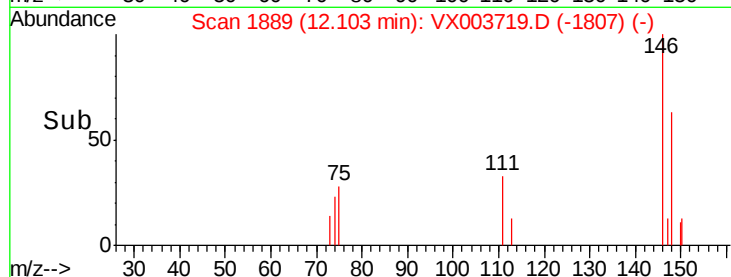
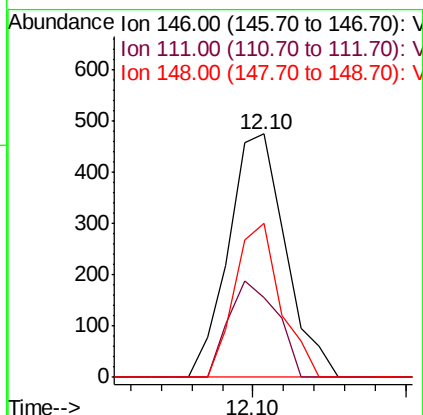
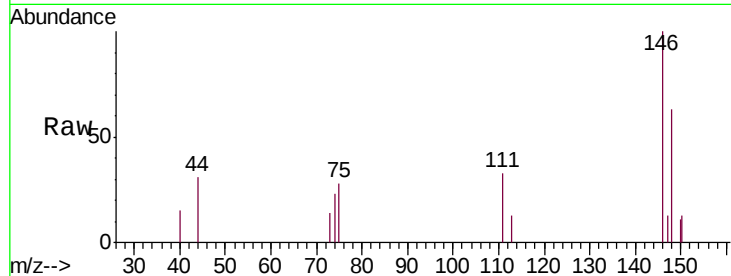




#84
 1,4-Dichlorobenzene
 Concen: 0.23 ug/l
 RT: 12.10 min Scan# 1889
 Delta R.T. 0.00 min
 Lab File: VX003719.D
 Acq: 27 Jul 2018 16:44

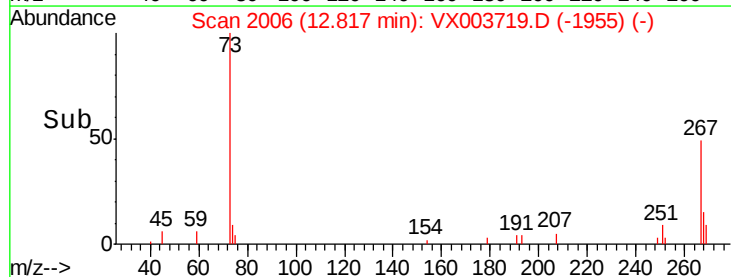
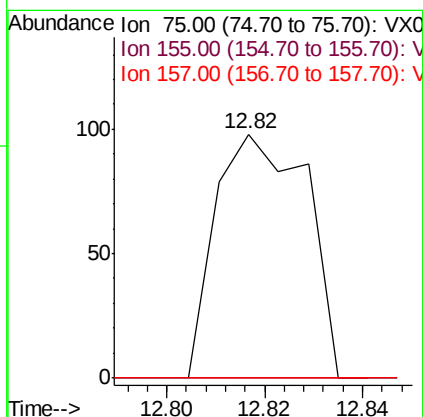
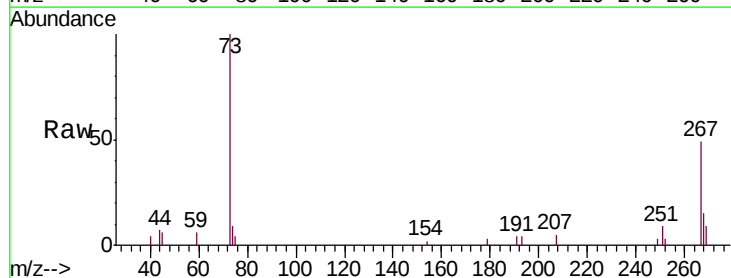
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0727WBL01

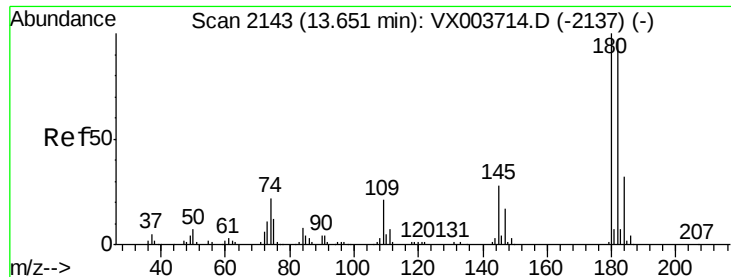
Tot Ion:146 Resp: 614
 Ion Ratio Lower Upper
 146 100
 111 33.7 18.5 55.5
 148 50.8 32.0 96.0



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 0.31 ug/l
 RT: 12.82 min Scan# 2006
 Delta R.T. -0.19 min
 Lab File: VX003719.D
 Acq: 27 Jul 2018 16:44

Tgt Ion: 75 Resp: 127
 Ion Ratio Lower Upper
 75 100
 155 0.0 73.1 109.7#
 157 0.0 93.1 139.7#

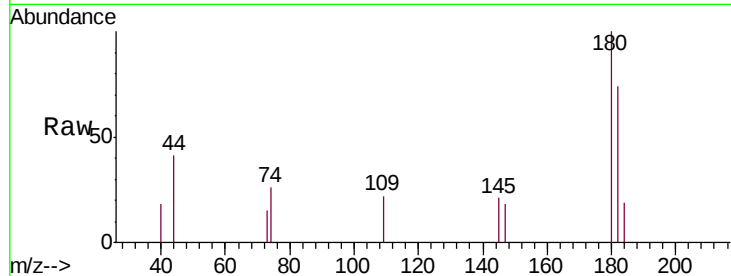




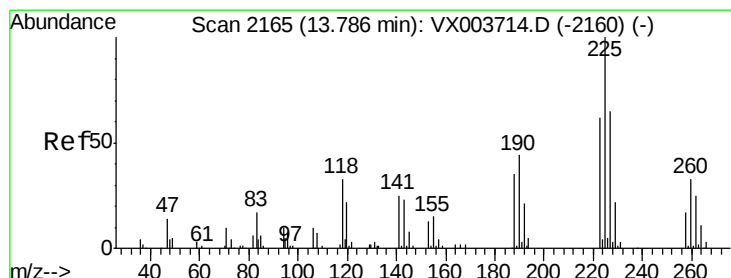
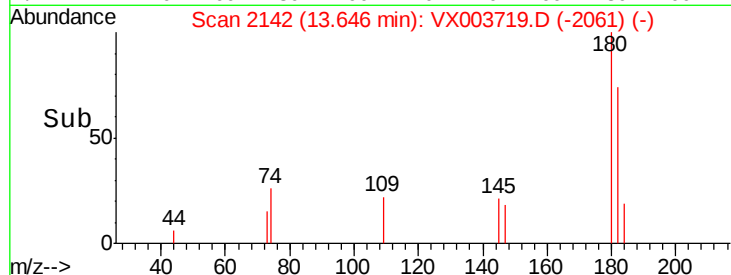
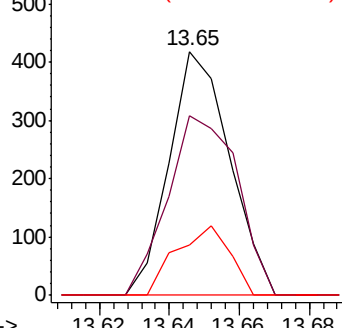
#89
 1,2,4-Trichlorobenzene
 Concen: 0.27 ug/l
 RT: 13.65 min Scan# 2142
 Delta R.T. -0.01 min
 Lab File: VX003719.D
 Acq: 27 Jul 2018 16:44

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0727WBL01

Tot Ion:180 Resp: 503
 Ion Ratio Lower Upper
 180 100
 182 84.5 76.4 114.6
 145 25.0 22.9 34.3

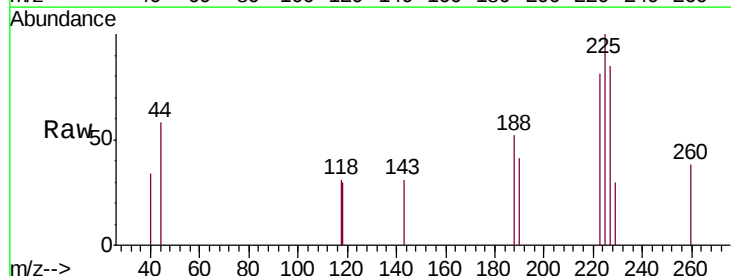


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V



#90
 Hexachlorobutadiene
 Concen: 0.30 ug/l
 RT: 13.79 min Scan# 2165
 Delta R.T. 0.00 min
 Lab File: VX003719.D
 Acq: 27 Jul 2018 16:44

Tgt Ion:225 Resp: 259
 Ion Ratio Lower Upper
 225 100
 223 62.9 0.0 122.4
 227 79.9 0.0 128.0



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V

