

Data File : VW012769.D
Acq On : 08 Sep 2019 15:10
Operator : SY/VA
Sample : K4603-06
Misc : 3.28G/5ML/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
PAR-E4-(0)

Quant Time: Sep 09 05:58:19 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W090719S.M
Quant Title : SW846 8260
QLast Update : Sun Sep 08 05:04:40 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	219517	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	333080	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	283104	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	114810	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	122710	50.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.06%	
35) Dibromofluoromethane	7.88	113	100285	50.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.28%	
50) Toluene-d8	10.32	98	388516	50.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.16%	
62) 4-Bromofluorobenzene	12.62	95	133249	47.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.62%	

Target Compounds

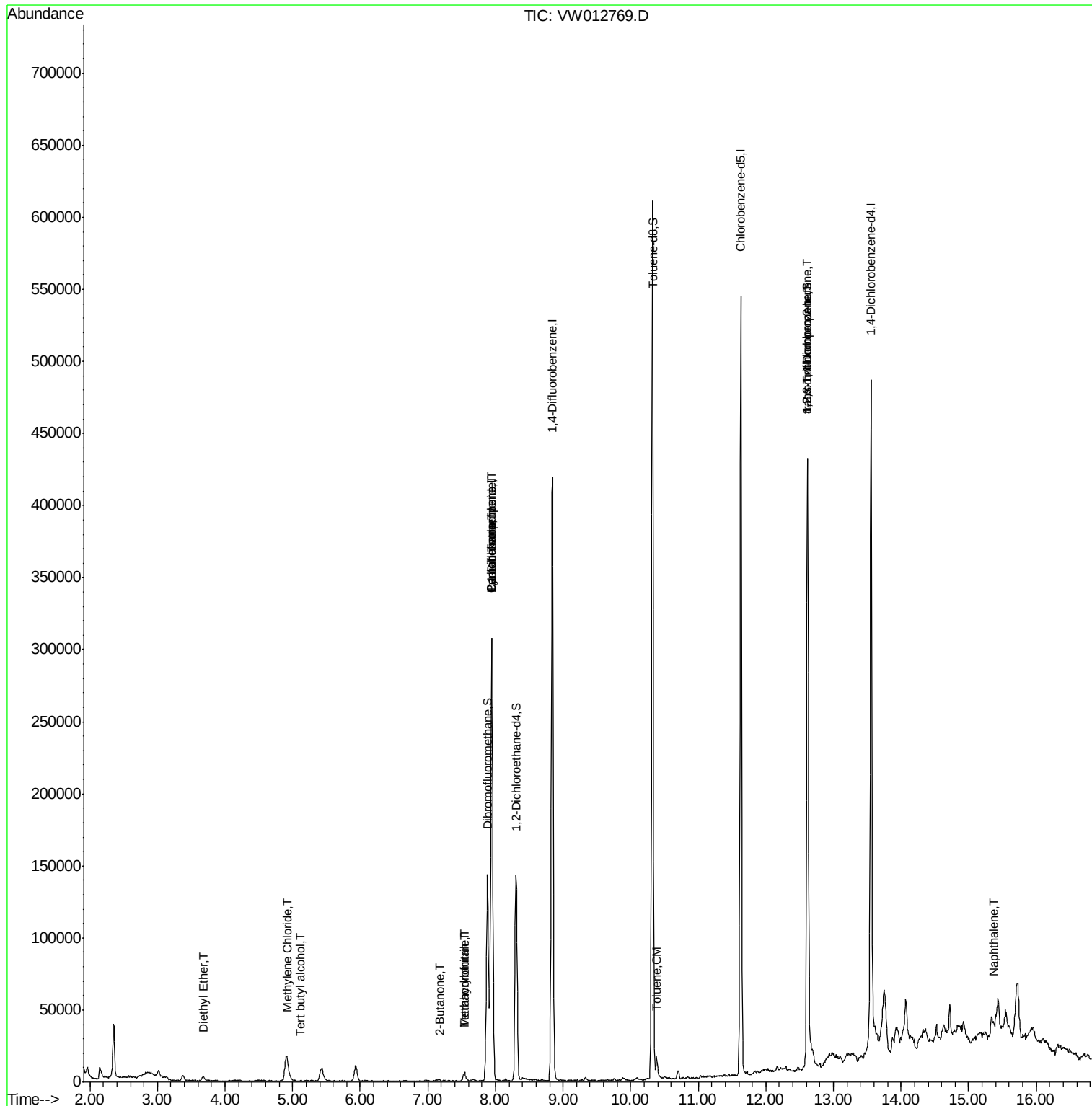
						Qvalue
8) Diethyl Ether	3.67	74	1807	1.757	ug/l	95
11) Tert butyl alcohol	5.11	59	203	1.082	ug/l #	72
20) Methylene Chloride	4.91	84	13600	6.501	ug/l #	93
25) 2-Butanone	7.17	43	98	19.772	ug/l #	77
29) Tetrahydrofuran	7.54	42	5334	9.878	ug/l	98
31) Cyclohexane	7.95	56	5718	1.586	ug/l #	23
36) 1,1-Dichloropropene	7.95	75	17918	6.054	ug/l #	53
38) Carbon Tetrachloride	7.95	117	21915	7.512	ug/l #	16
41) Methacrylonitrile	7.54	41	3180	6.128	ug/l #	59
52) Toluene	10.38	92	6019	1.174	ug/l	93
76) 1,2,3-Trichloropropane	12.62	75	69374	59.093	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	69374	124.985	ug/l #	7
95) Naphthalene	15.37	128	1030	4.634	ug/l #	89

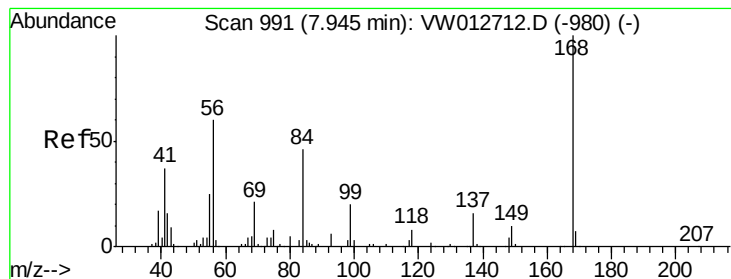
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW012769.D

Acq: 08 Sep 2019 15:10

Instrument :

MSVOA_W

ClientSampleId :

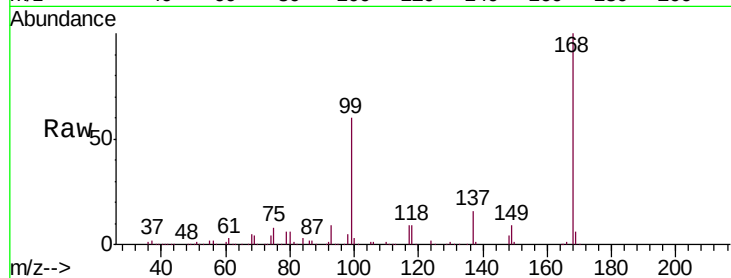
PAR-E4-(0)

Tgt Ion:168 Resp: 219517

Ion Ratio Lower Upper

168 100

99 59.5 47.8 71.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

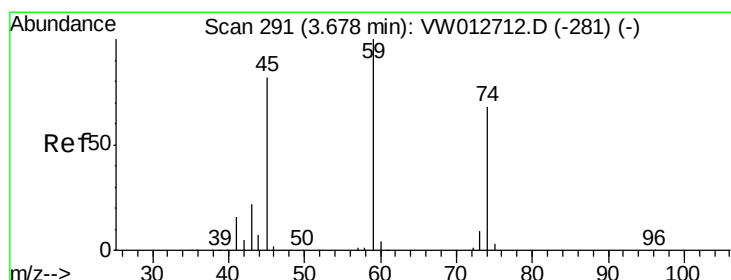
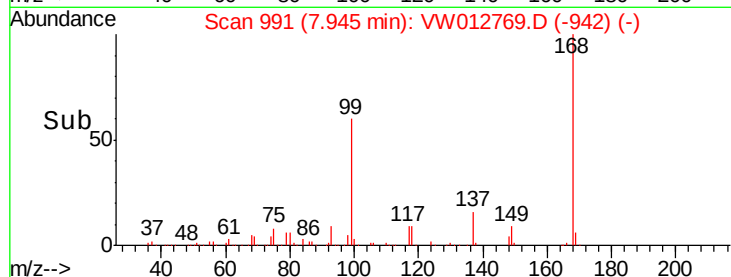
60000

40000

20000

0

Time-->



#8

Diethyl Ether

Concen: 1.757 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW012769.D

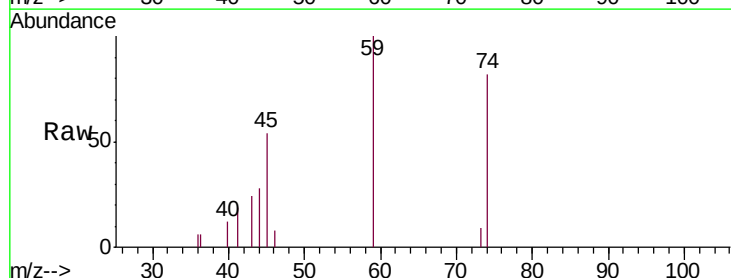
Acq: 08 Sep 2019 15:10

Tgt Ion: 74 Resp: 1807

Ion Ratio Lower Upper

74 100

45 112.5 58.8 176.4



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.67

1000

800

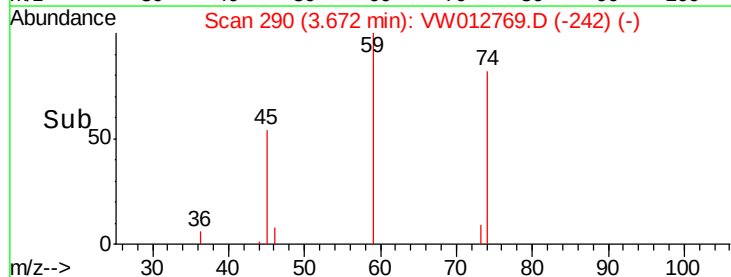
600

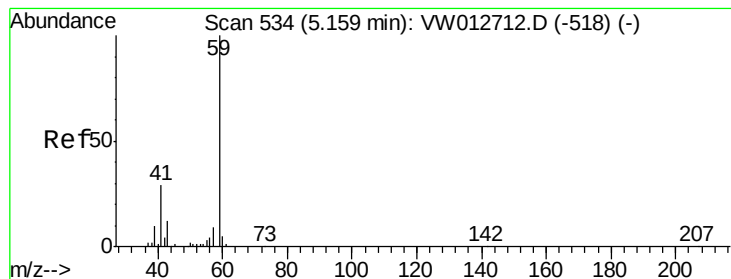
400

200

0

Time-->



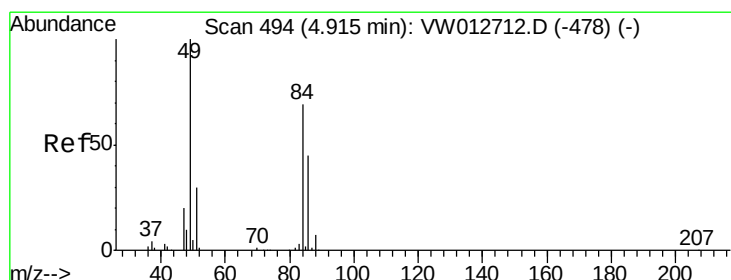
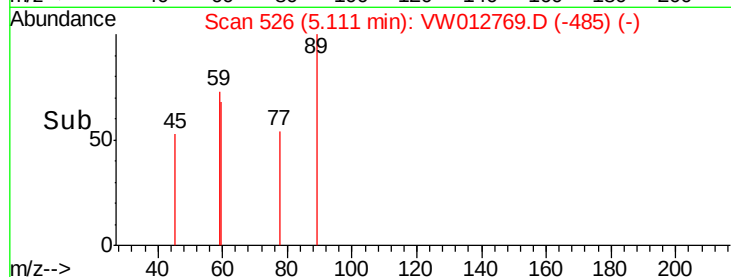
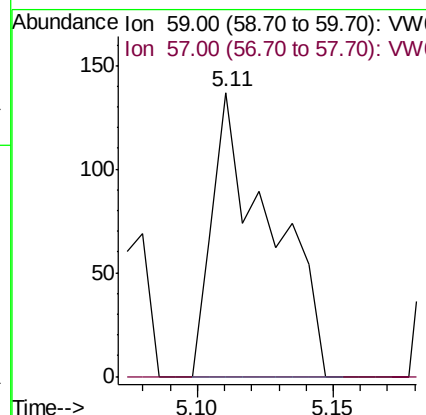
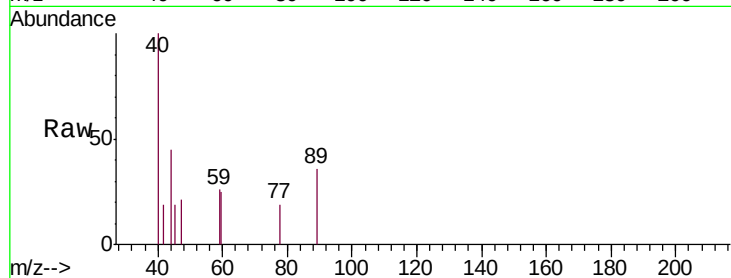


#11

Tert butyl alcohol
 Concen: 1.082 ug/l
 RT: 5.11 min Scan# 526
 Delta R.T. -0.05 min
 Lab File: VW012769.D
 Acq: 08 Sep 2019 15:10

Instrument :
 MSVOA_W
 ClientSampleId :
 PAR-E4-(0)

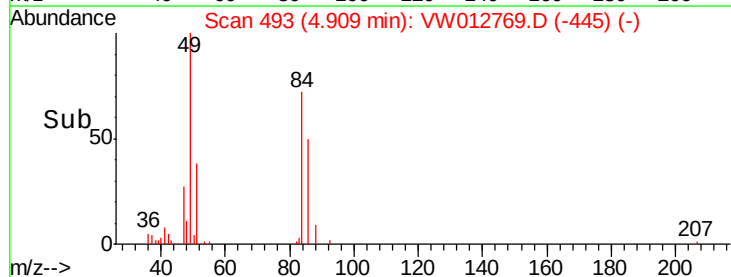
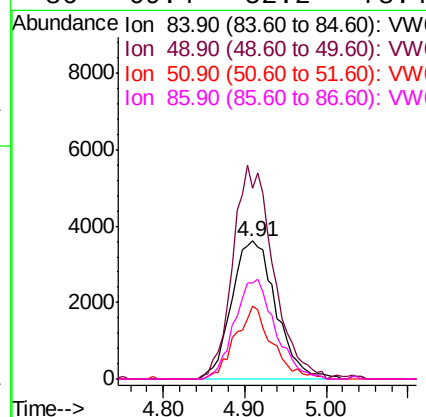
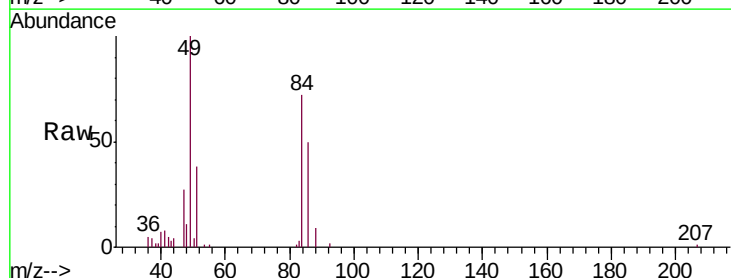
Tgt Ion: 59 Resp: 203
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#

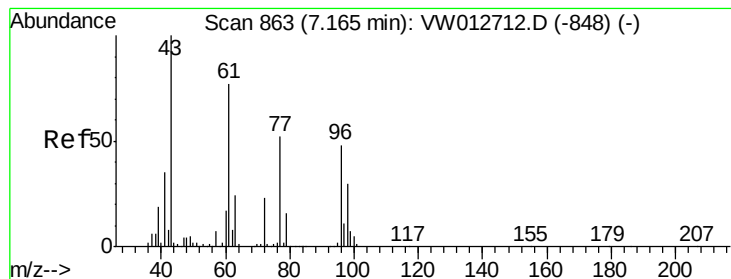


#20

Methylene Chloride
 Concen: 6.501 ug/l
 RT: 4.91 min Scan# 493
 Delta R.T. -0.01 min
 Lab File: VW012769.D
 Acq: 08 Sep 2019 15:10

Tgt Ion: 84 Resp: 13600
 Ion Ratio Lower Upper
 84 100
 49 138.2 115.4 173.0
 51 52.7 34.9 52.3#
 86 69.4 52.2 78.4





#25

2-Butanone

Concen: 19.772 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW012769.D

Acq: 08 Sep 2019 15:10

Instrument :

MSVOA_W

ClientSampleId :

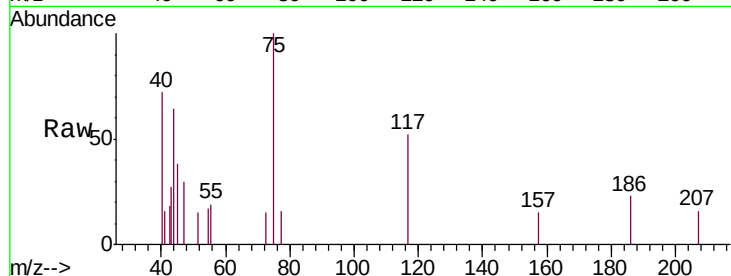
PAR-E4-(0)

Tgt Ion: 43 Resp: 98

Ion Ratio Lower Upper

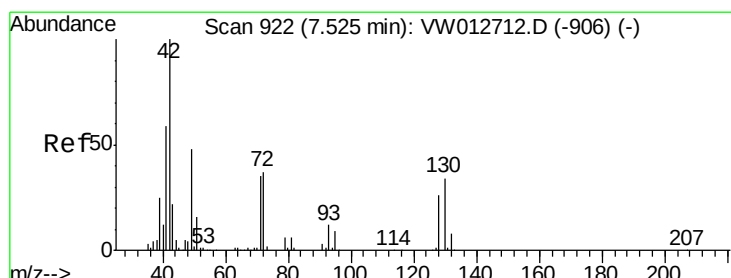
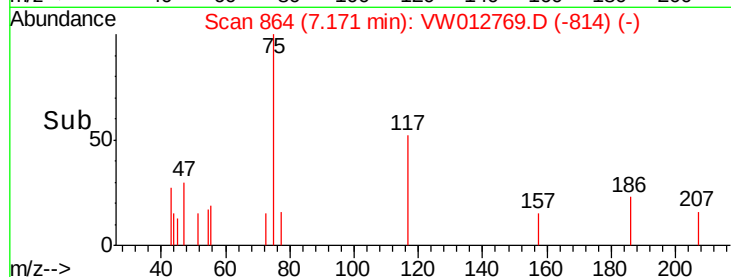
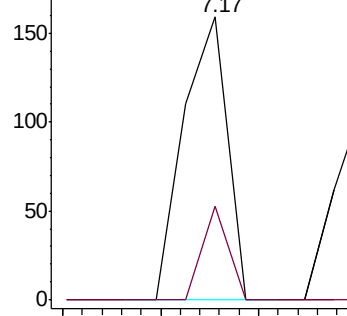
43 100

72 33.3 18.0 27.0#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#29

Tetrahydrofuran

Concen: 9.878 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.02 min

Lab File: VW012769.D

Acq: 08 Sep 2019 15:10

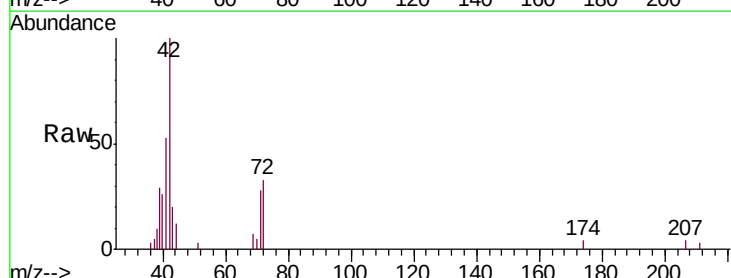
Tgt Ion: 42 Resp: 5334

Ion Ratio Lower Upper

42 100

72 35.9 28.4 42.6

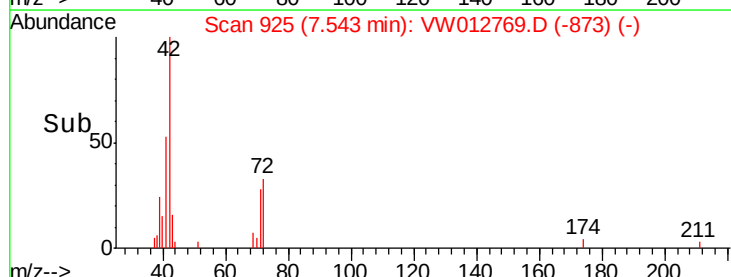
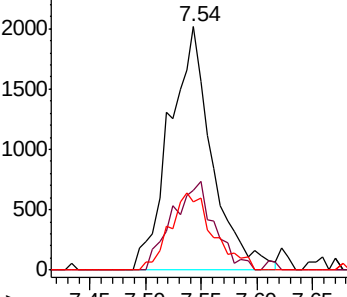
71 32.2 27.1 40.7

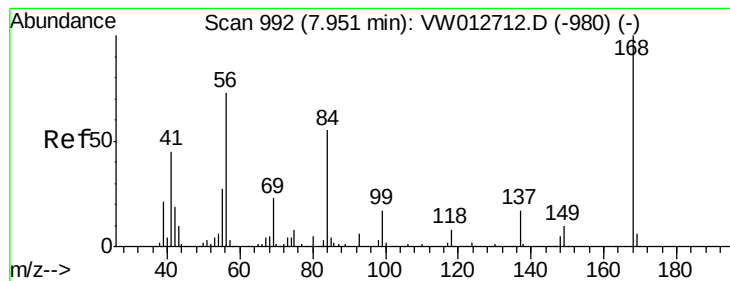


Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW





#31

Cyclohexane

Concen: 1.586 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW012769.D

Acq: 08 Sep 2019 15:10

Instrument :

MSVOA_W

ClientSampled :

PAR-E4-(0)

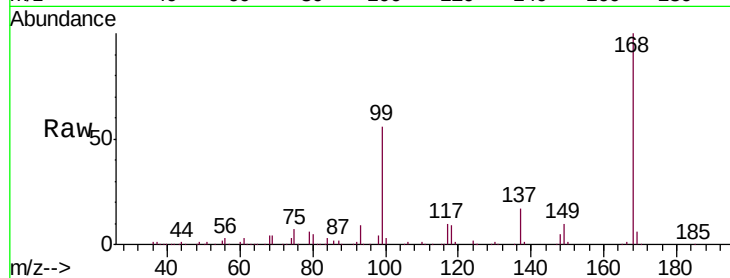
Tgt Ion: 56 Resp: 5718

Ion Ratio Lower Upper

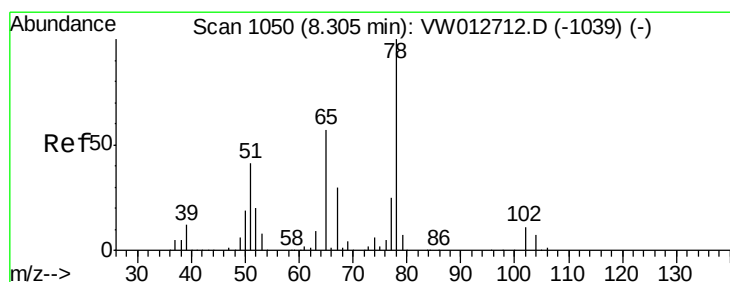
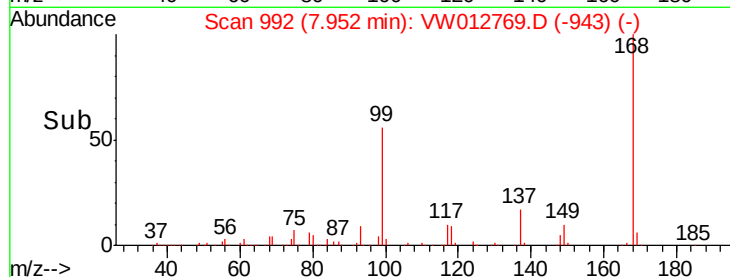
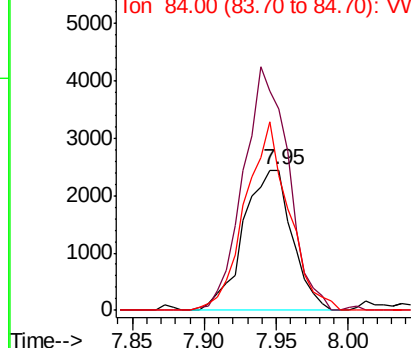
56 100

69 143.3 25.7 38.5#

84 96.4 60.4 90.6#



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



#33

1,2-Dichloroethane-d4

Concen: 50.030 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW012769.D

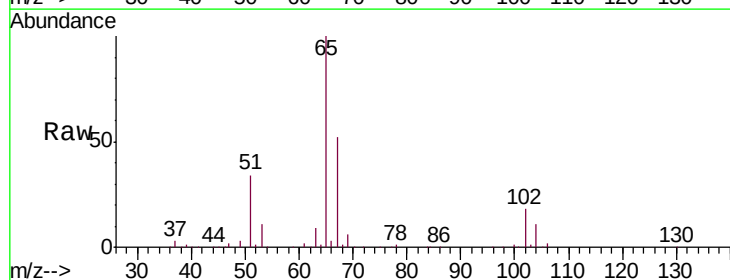
Acq: 08 Sep 2019 15:10

Tgt Ion: 65 Resp: 122710

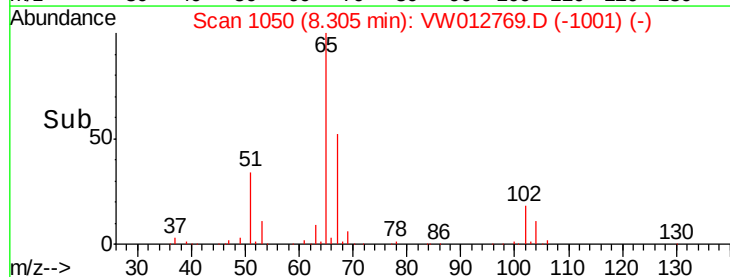
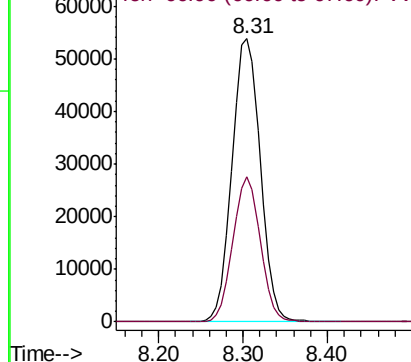
Ion Ratio Lower Upper

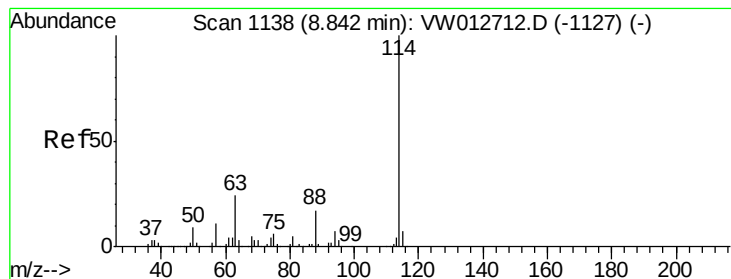
65 100

67 49.6 0.0 101.8



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW012769.D

Acq: 08 Sep 2019 15:10

Instrument :

MSVOA_W

ClientSampleId :

PAR-E4-(0)

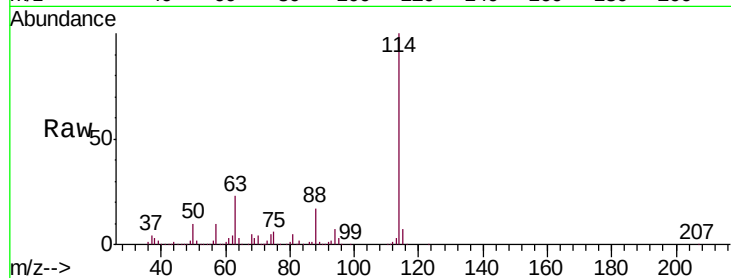
Tgt Ion:114 Resp: 333080

Ion Ratio Lower Upper

114 100

63 23.0 0.0 47.2

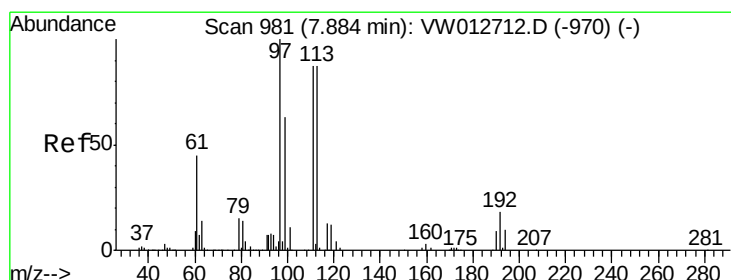
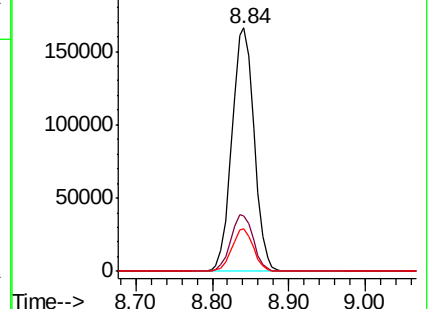
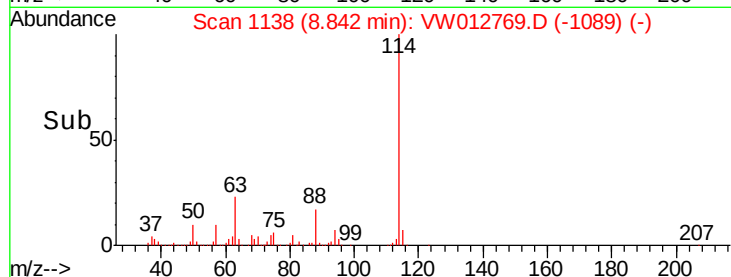
88 17.3 0.0 34.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 50.642 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW012769.D

Acq: 08 Sep 2019 15:10

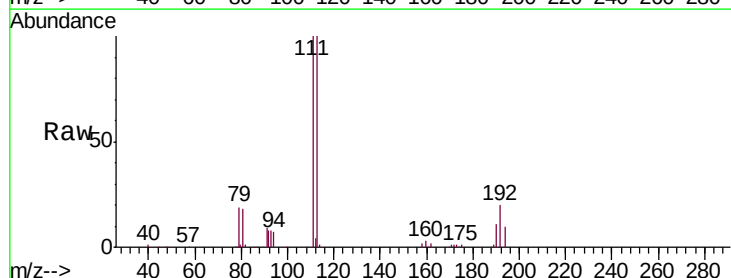
Tgt Ion:113 Resp: 100285

Ion Ratio Lower Upper

113 100

111 103.1 80.2 120.4

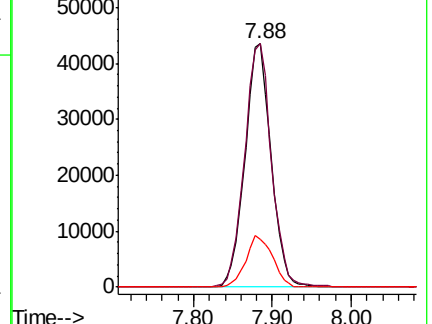
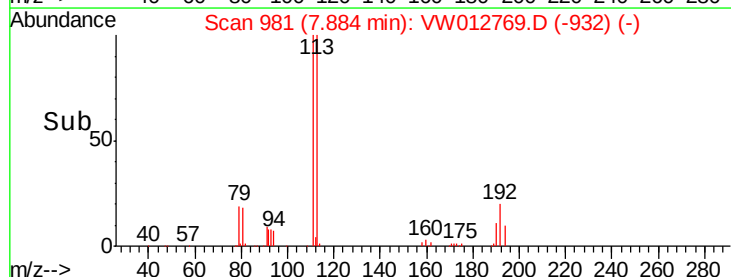
192 21.6 17.3 25.9

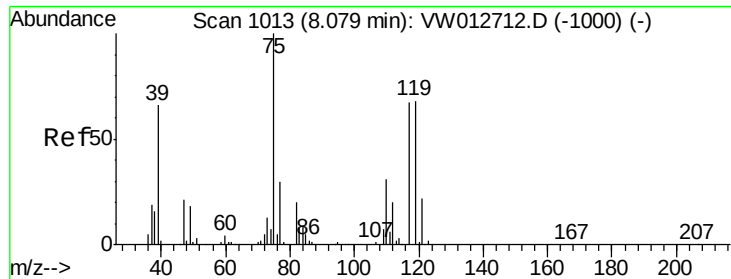


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

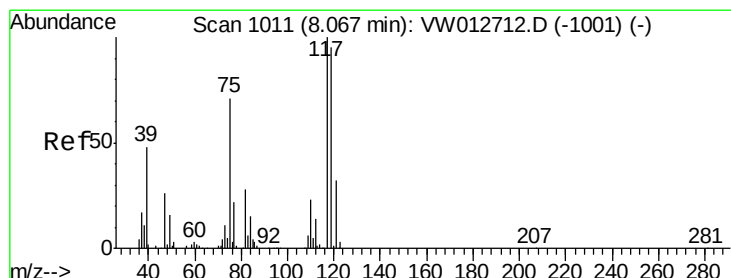
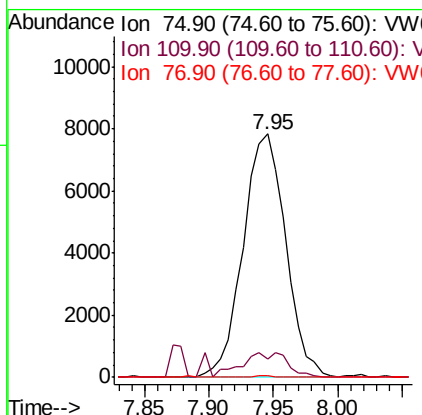
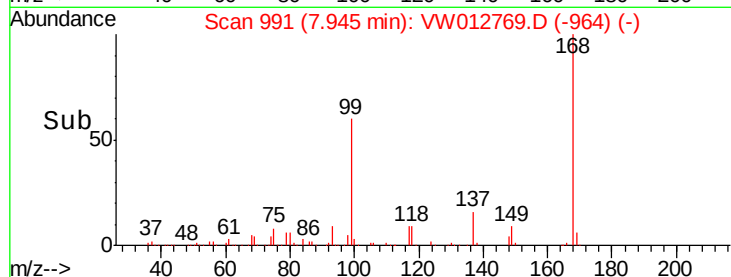
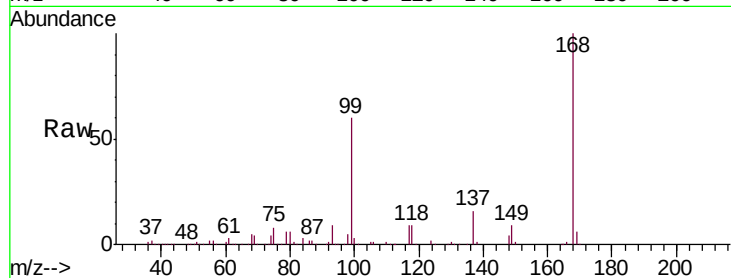




#36
 1,1-Dichloropropene
 Concen: 6.054 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW012769.D
 Acq: 08 Sep 2019 15:10

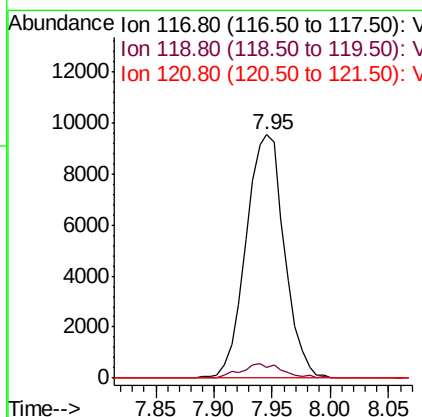
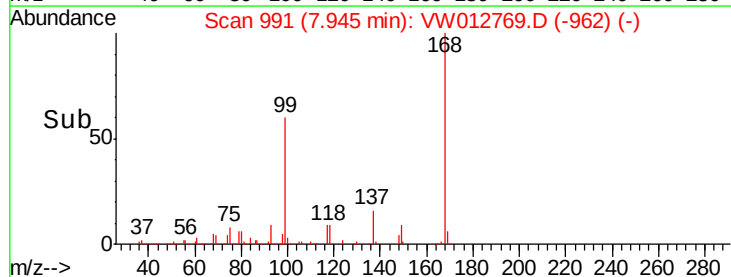
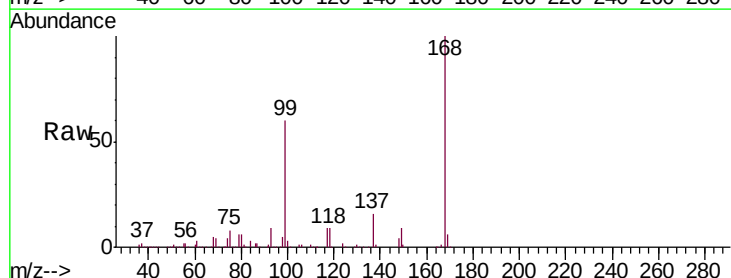
Instrument :
 MSVOA_W
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 PAR-E4-(0)

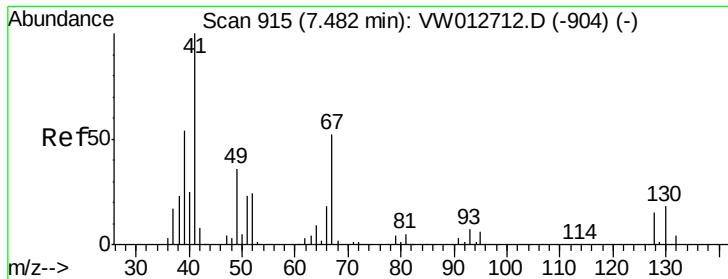
Tgt Ion: 75 Resp: 17918
 Ion Ratio Lower Upper
 75 100
 110 10.5 15.9 47.7#
 77 0.3 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 7.512 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW012769.D
 Acq: 08 Sep 2019 15:10

Tgt Ion: 117 Resp: 21915
 Ion Ratio Lower Upper
 117 100
 119 4.3 76.2 114.2#
 121 0.0 25.4 38.2#





#41

Methacrylonitrile

Concen: 6.128 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.05 min

Lab File: VW012769.D

Acq: 08 Sep 2019 15:10

Instrument :

MSVOA_W

ClientSampled :

PAR-E4-(0)

Tgt Ion: 41 Resp: 3180

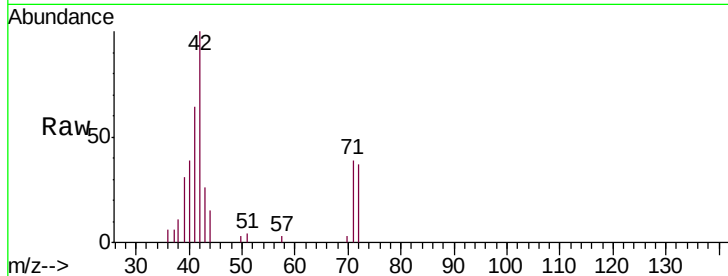
Ion Ratio Lower Upper

41 100

39 57.4 47.5 71.3

67 0.0 45.1 67.7#

52 0.0 20.2 30.2#

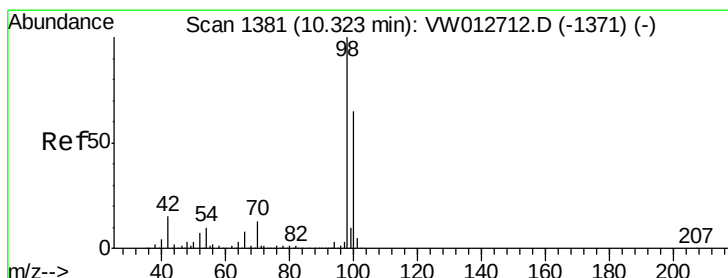
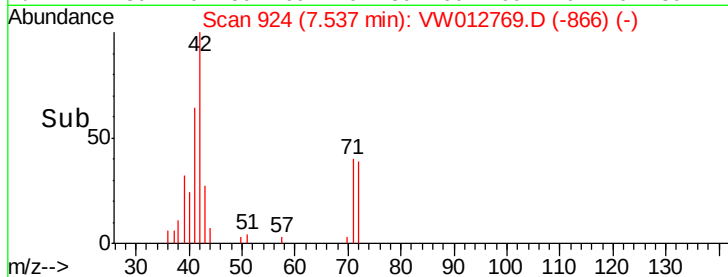
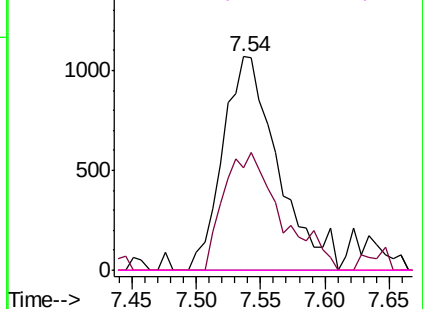


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW



#50

Toluene-d8

Concen: 50.078 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW012769.D

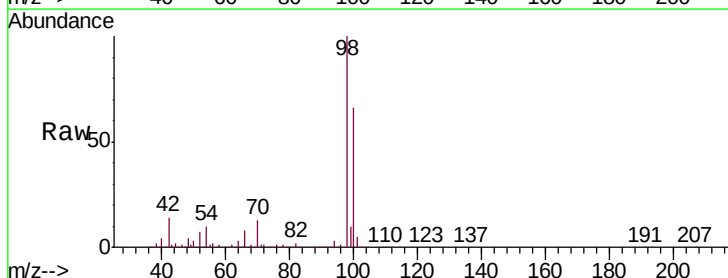
Acq: 08 Sep 2019 15:10

Tgt Ion: 98 Resp: 388516

Ion Ratio Lower Upper

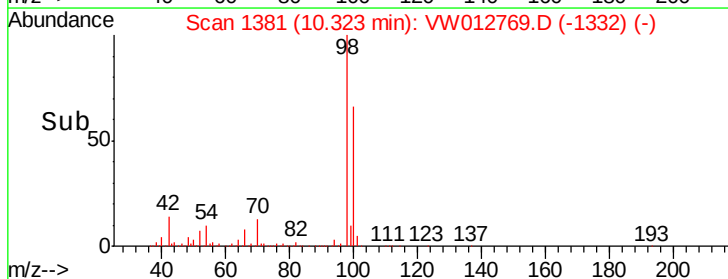
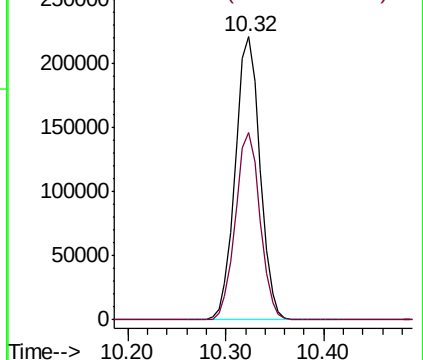
98 100

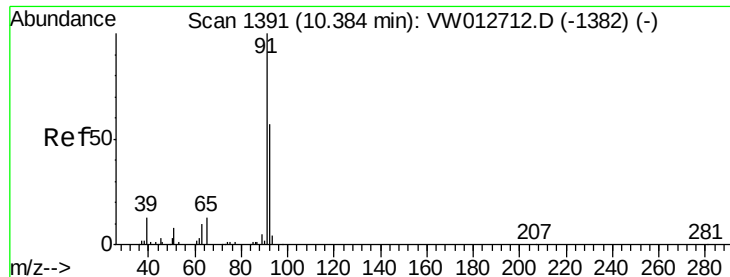
100 65.9 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#52

Toluene

Concen: 1.174 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW012769.D

Acq: 08 Sep 2019 15:10

Instrument :

MSVOA_W

ClientSampleId :

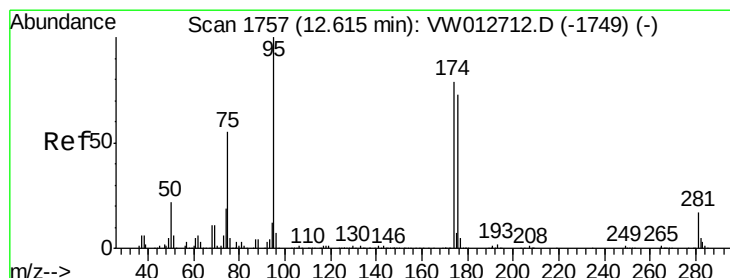
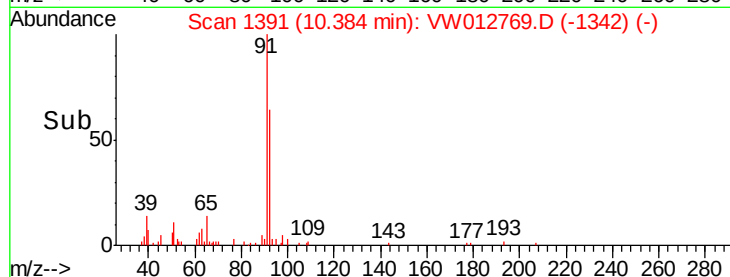
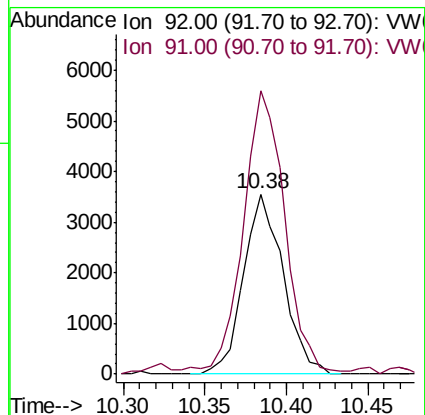
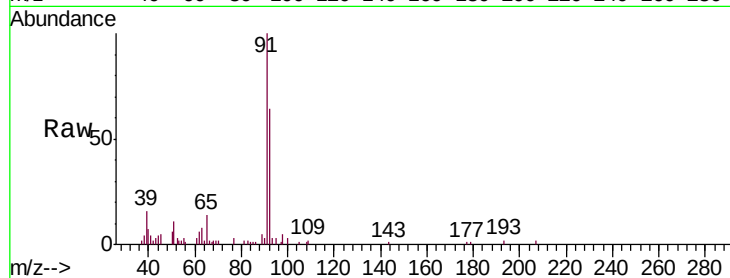
PAR-E4-(0)

Tgt Ion: 92 Resp: 6019

Ion Ratio Lower Upper

92 100

91 161.8 137.0 205.4



#62

4-Bromofluorobenzene

Concen: 47.311 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW012769.D

Acq: 08 Sep 2019 15:10

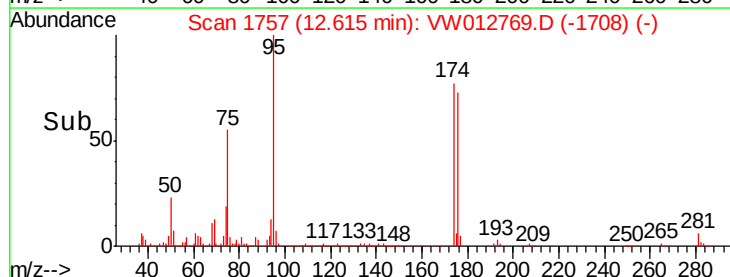
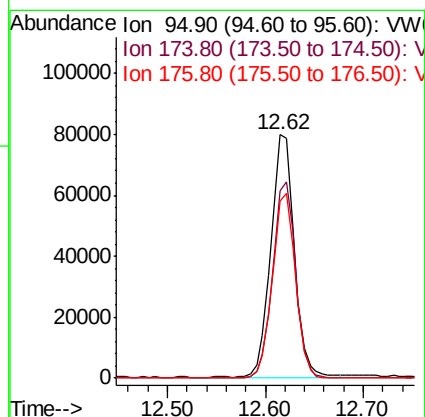
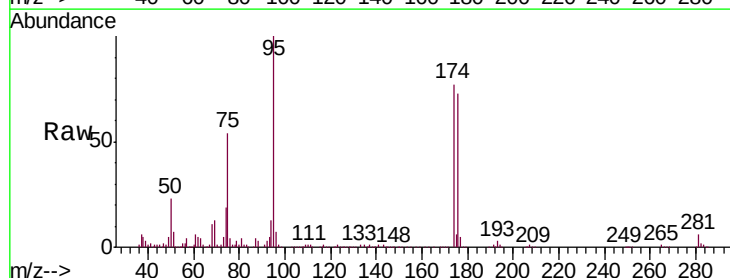
Tgt Ion: 95 Resp: 133249

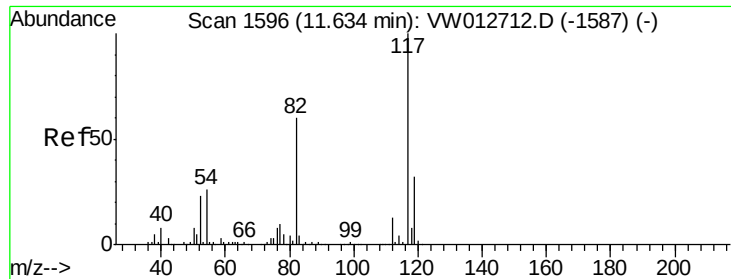
Ion Ratio Lower Upper

95 100

174 78.3 0.0 161.0

176 74.3 0.0 156.4

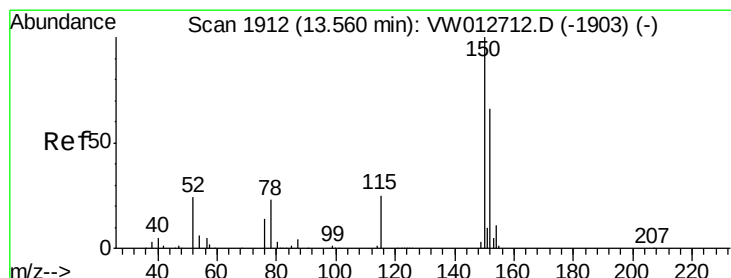
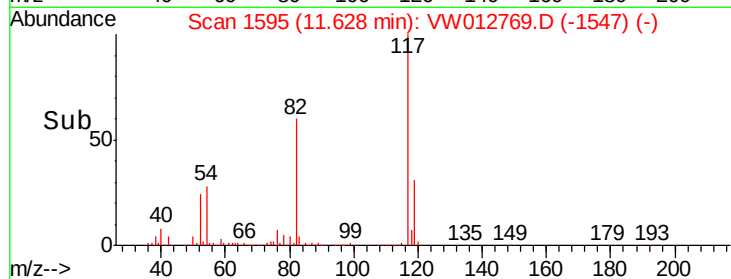
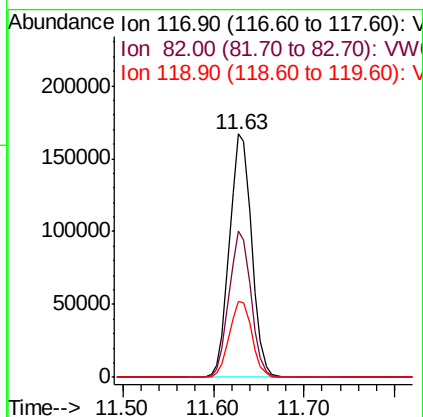
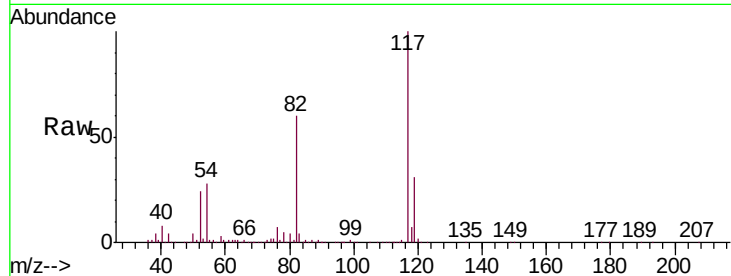




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW012769.D
Acq: 08 Sep 2019 15:10

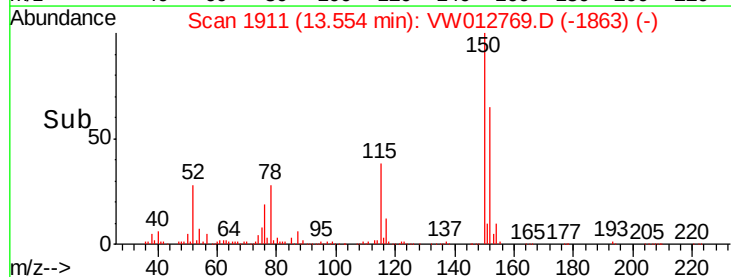
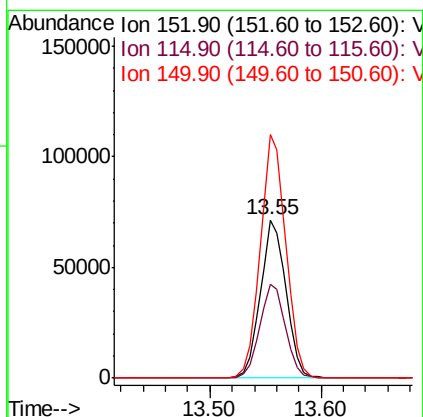
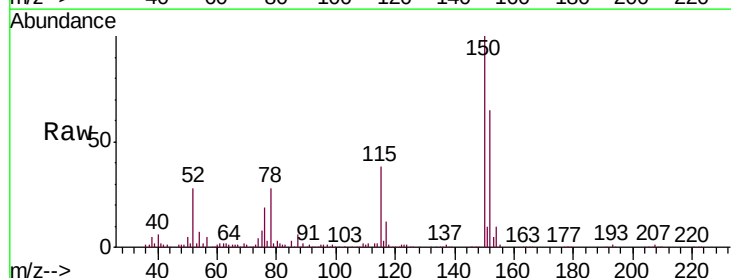
Instrument :
MSVOA_W
ClientSampleId :
PAR-E4-(0)

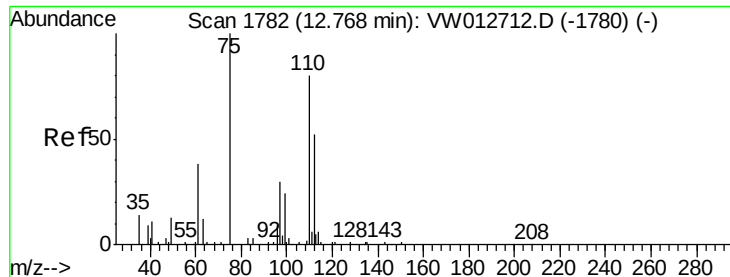
Tgt Ion:117 Resp: 283104
Ion Ratio Lower Upper
117 100
82 60.2 48.2 72.4
119 31.1 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.55 min Scan# 1911
Delta R.T. -0.01 min
Lab File: VW012769.D
Acq: 08 Sep 2019 15:10

Tgt Ion:152 Resp: 114810
Ion Ratio Lower Upper
152 100
115 59.7 30.0 90.1
150 153.5 0.0 349.0





#76

1,2,3-Trichloropropane

Concen: 59.093 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012769.D

Acq: 08 Sep 2019 15:10

Instrument :

MSVOA_W

ClientSampleId :

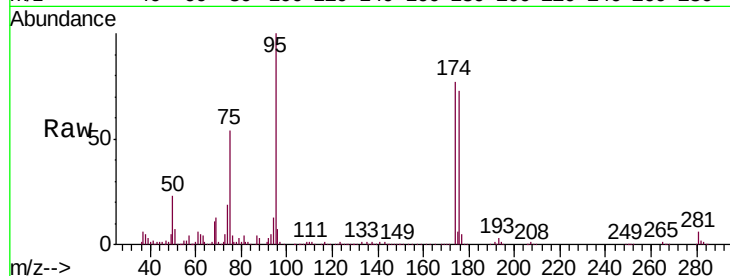
PAR-E4-(0)

Tgt Ion: 75 Resp: 69374

Ion Ratio Lower Upper

75 100

77 2.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

12.62

40000

30000

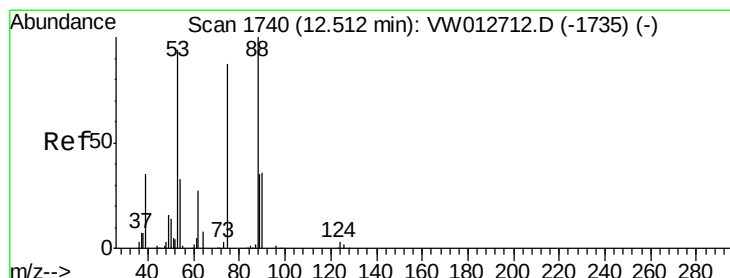
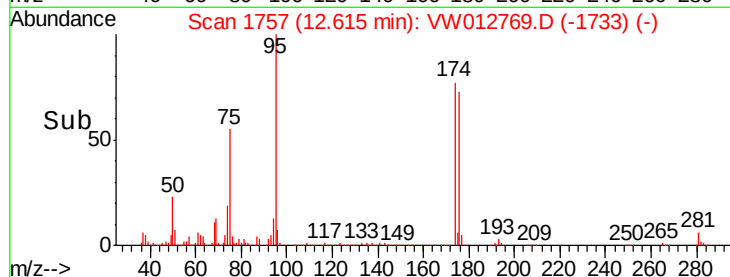
20000

10000

0

12.55 12.60 12.65

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 124.985 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012769.D

Acq: 08 Sep 2019 15:10

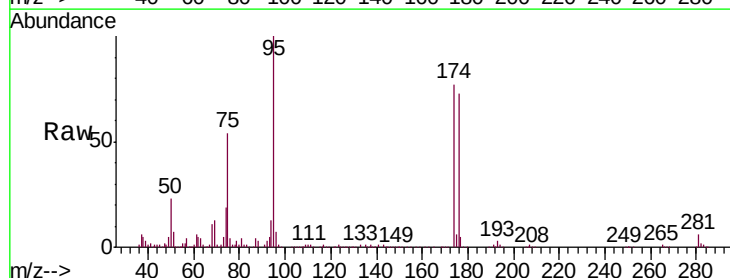
Tgt Ion: 75 Resp: 69374

Ion Ratio Lower Upper

75 100

53 0.8 87.6 131.4#

89 0.2 35.5 53.3#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

60000

50000

40000

30000

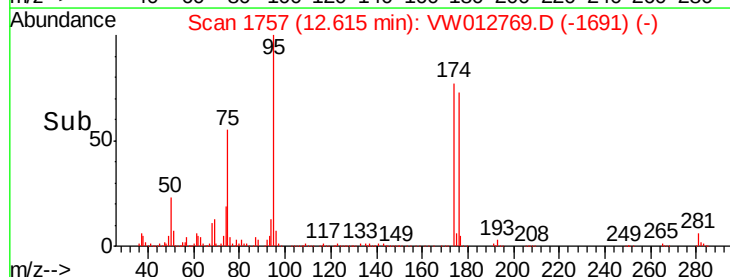
20000

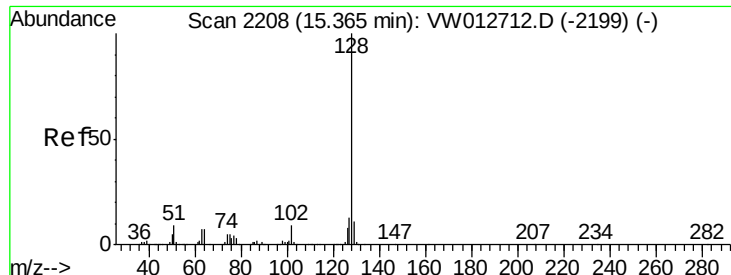
10000

0

12.55 12.60 12.65

Time-->





#95

Naphthalene

Concen: 4.634 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.01 min

Lab File: VW012769.D

Acq: 08 Sep 2019 15:10

Instrument :

MSVOA_W

ClientSampleId :

PAR-E4-(0)

Tgt Ion:128 Resp: 1030

Ion Ratio Lower Upper

128 100

127 14.8 10.7 16.1

129 3.0 8.7 13.1#

