

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW021319\
 Data File : VW008651.D
 Acq On : 13 Feb 2019 21:04
 Operator : SY/VA
 Sample : K1343-29RE
 Misc : 6.69G/5ML/MSVOA W/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 HD-02-021119

Quant Time: Feb 14 04:46:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 04:06:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	336867	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	501077	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	435376	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	200725	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	181428	51.80	ug/l	0.00
Spiked Amount			Recovery	=	103.60%	
35) Dibromofluoromethane	7.88	113	155476	49.97	ug/l	0.00
Spiked Amount			Recovery	=	99.94%	
50) Toluene-d8	10.32	98	590294	49.22	ug/l	0.00
Spiked Amount			Recovery	=	98.44%	
62) 4-Bromofluorobenzene	12.62	95	206942	45.81	ug/l	0.00
Spiked Amount			Recovery	=	91.62%	

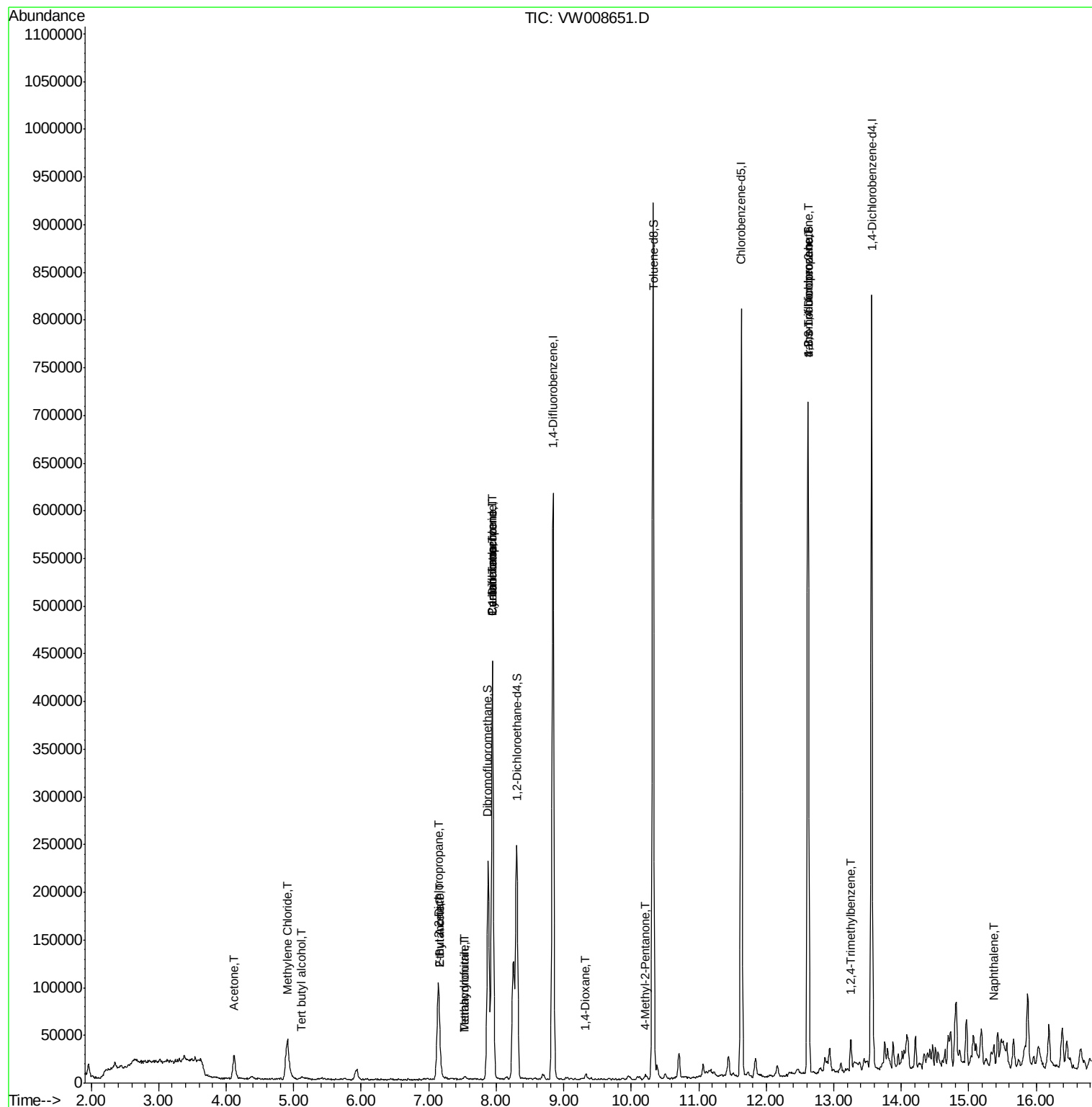
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.12	59	3226	11.513	ug/l	100
16) Acetone	4.12	43	42049	52.763	ug/l #	88
20) Methylene Chloride	4.91	84	32844	2.478	ug/l	93
25) 2-Butanone	7.17	43	11744	10.436	ug/l #	80
26) 2,2-Dichloropropane	7.15	77	7243	1.827	ug/l #	53
29) Tetrahydrofuran	7.53	42	2038	2.748	ug/l #	80
31) Cyclohexane	7.94	56	8182	1.277	ug/l #	5
36) 1,1-Dichloropropene	7.95	75	24555	4.878	ug/l #	50
37) Ethyl Acetate	7.17	43	11744	4.836	ug/l #	51
38) Carbon Tetrachloride	7.95	117	31785	6.349	ug/l #	16
41) Methacrylonitrile	7.53	41	2139	1.566	ug/l #	34
49) 1,4-Dioxane	9.32	88	89	2.975	ug/l #	22
51) 4-Methyl-2-Pentanone	10.21	43	4223	1.698	ug/l #	87
76) 1,2,3-Trichloropropane	12.62	75	108492	54.737	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	108492	117.122	ug/l #	6
84) 1,2,4-Trimethylbenzene	13.25	105	19639	1.539	ug/l	97
95) Naphthalene	15.37	128	11690	1.485	ug/l	95

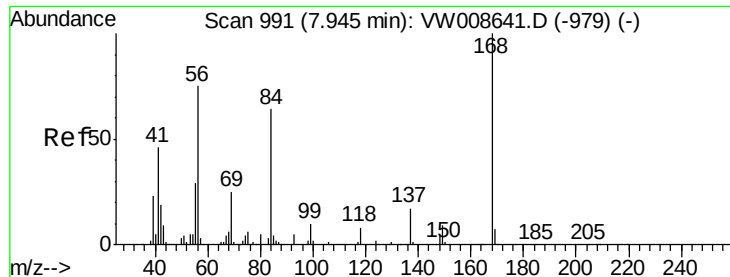
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW008651.D

Acq: 13 Feb 2019 21:04

Instrument :

MSVOA_W

ClientSampleId :

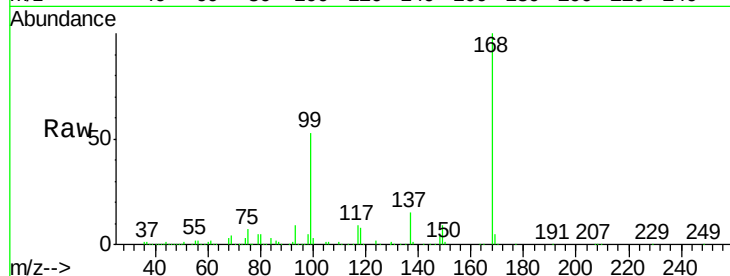
HD-02-021119

Tot Ion:168 Resp: 336867

Ion Ratio Lower Upper

168 100

99 53.5 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

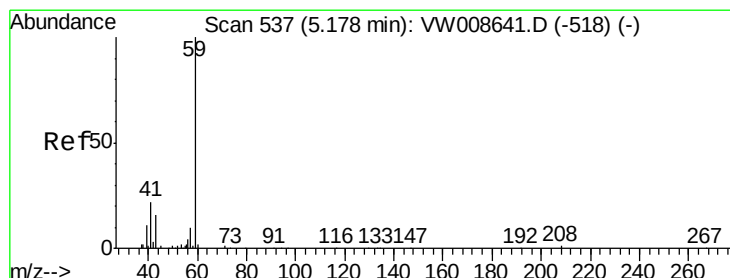
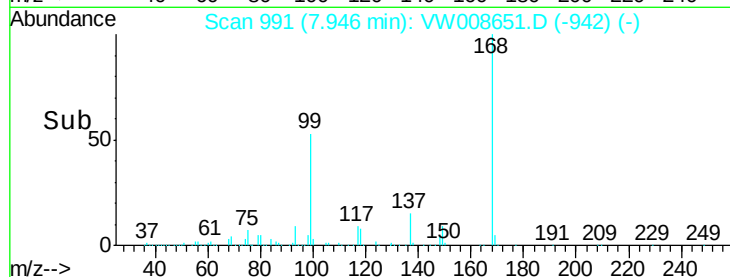
150000

100000

50000

0

Time--> 7.80 7.90 8.00



#11

Tert butyl alcohol

Concen: 11.513 ug/l

RT: 5.12 min Scan# 527

Delta R.T. -0.06 min

Lab File: VW008651.D

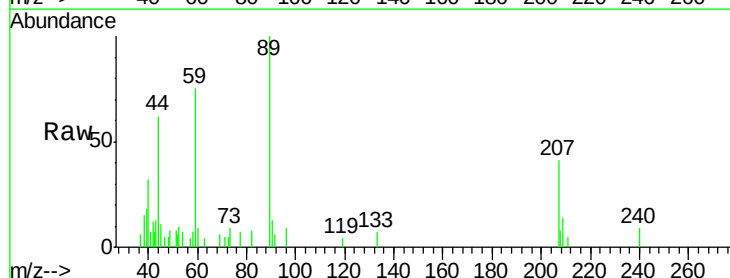
Acq: 13 Feb 2019 21:04

Tgt Ion: 59 Resp: 3226

Ion Ratio Lower Upper

59 100

57 10.5 8.3 12.5



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.12

1000

800

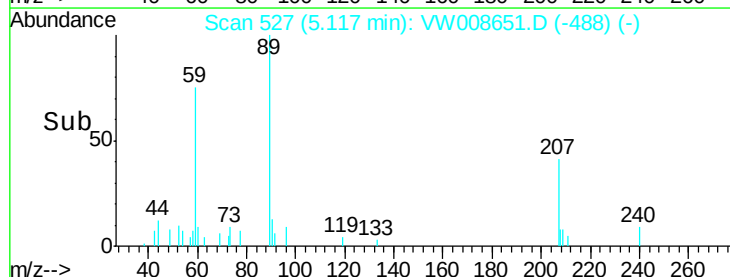
600

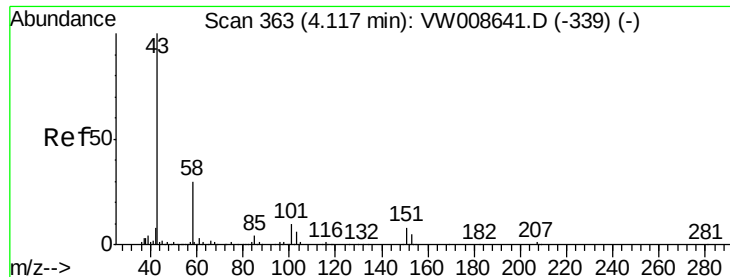
400

200

0

Time--> 5.00 5.05 5.10 5.15 5.20





#16

Acetone

Concen: 52.763 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW008651.D

Acq: 13 Feb 2019 21:04

Instrument :

MSVOA_W

ClientSampleId :

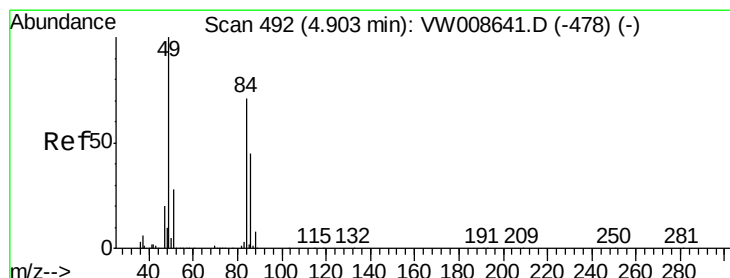
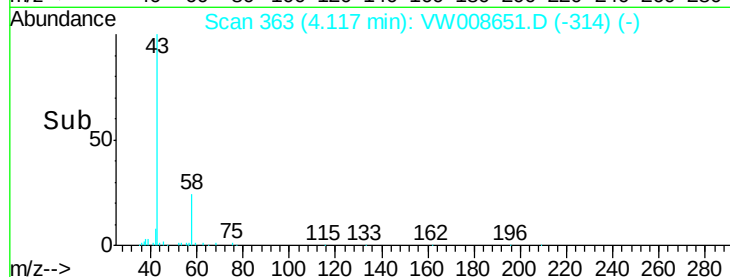
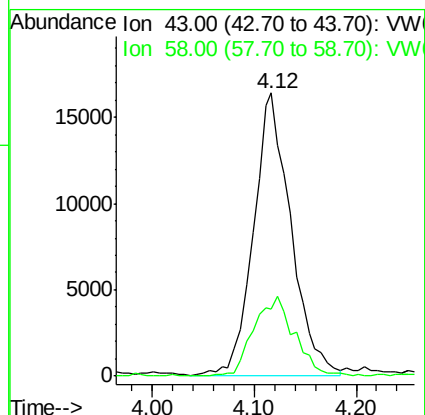
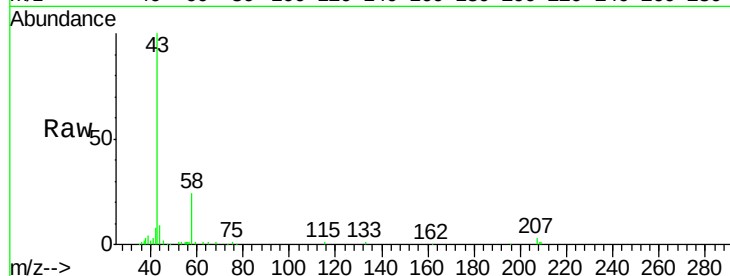
HD-02-021119

Tot Ion: 43 Resp: 42049

Ion Ratio Lower Upper

43 100

58 23.6 24.1 36.1#



#20

Methylene Chloride

Concen: 2.478 ug/l

RT: 4.91 min Scan# 493

Delta R.T. 0.01 min

Lab File: VW008651.D

Acq: 13 Feb 2019 21:04

Tgt Ion: 84 Resp: 32844

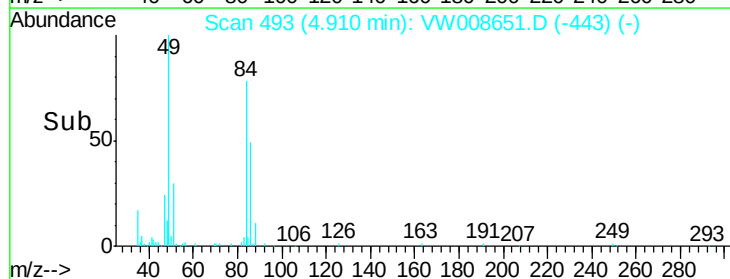
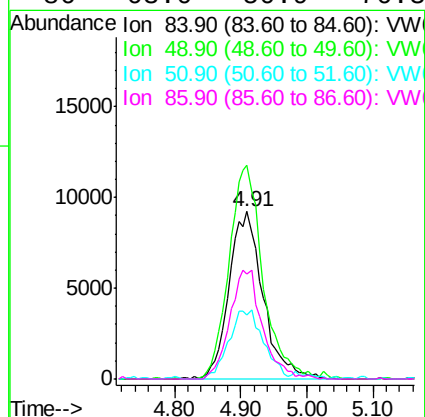
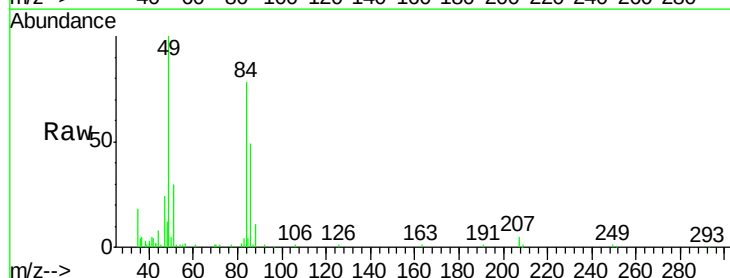
Ion Ratio Lower Upper

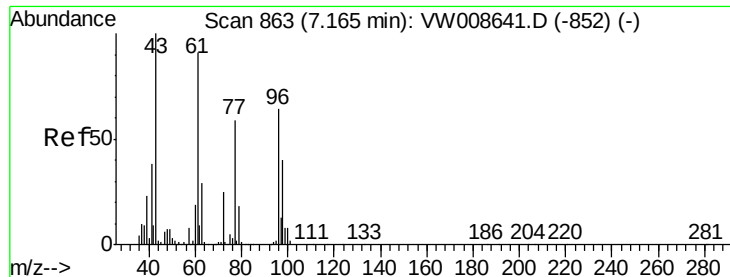
84 100

49 127.8 113.3 169.9

51 38.0 32.1 48.1

86 63.0 50.9 76.3





#25

2-Butanone

Concen: 10.436 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW008651.D

Acq: 13 Feb 2019 21:04

Instrument :

MSVOA_W

ClientSampleId :

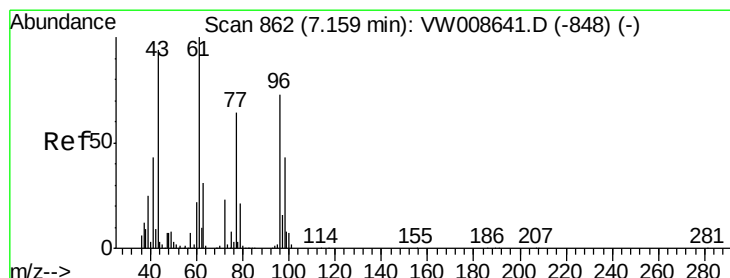
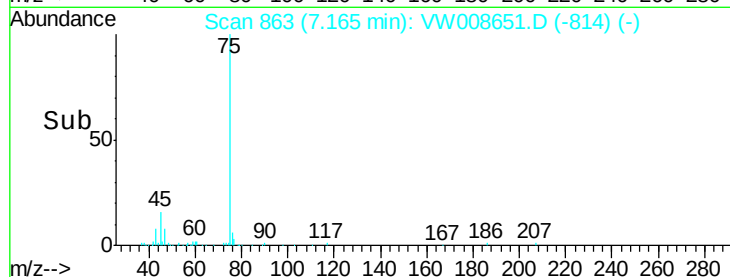
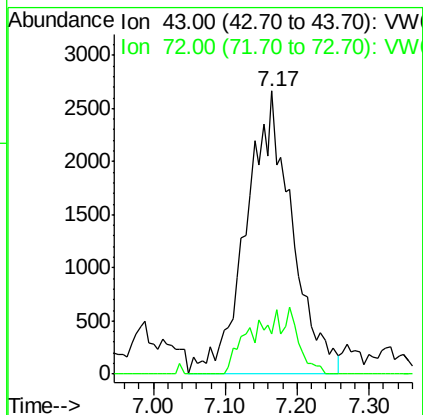
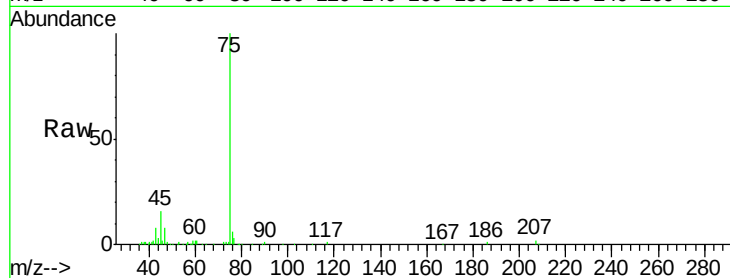
HD-02-021119

Tot Ion: 43 Resp: 11744

Ion Ratio Lower Upper

43 100

72 14.4 19.7 29.5#



#26

2,2-Dichloropropane

Concen: 1.827 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.01 min

Lab File: VW008651.D

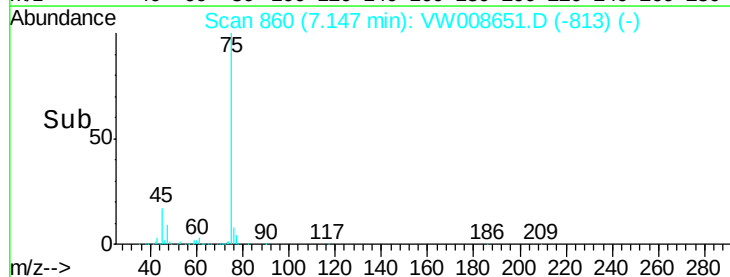
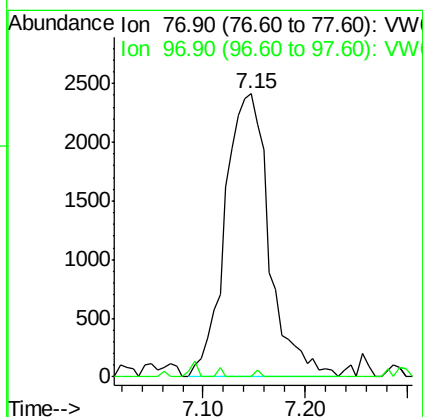
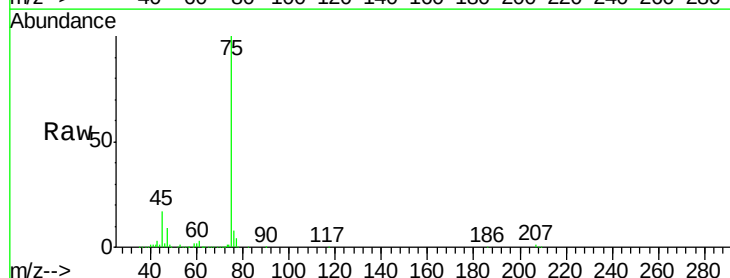
Acq: 13 Feb 2019 21:04

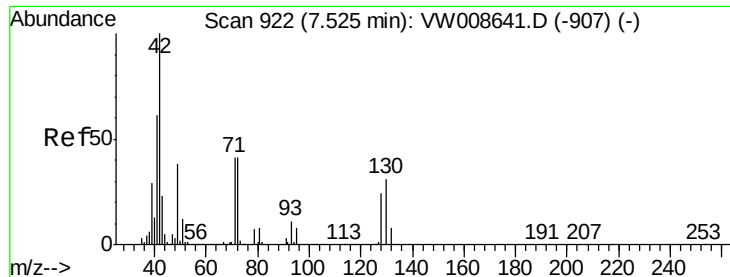
Tgt Ion: 77 Resp: 7243

Ion Ratio Lower Upper

77 100

97 0.3 11.7 35.0#





#29

Tetrahydrofuran

Concen: 2.748 ug/l

RT: 7.53 min Scan# 923

Delta R.T. 0.01 min

Lab File: VW008651.D

Acq: 13 Feb 2019 21:04

Instrument :

MSVOA_W

ClientSampleId :

HD-02-021119

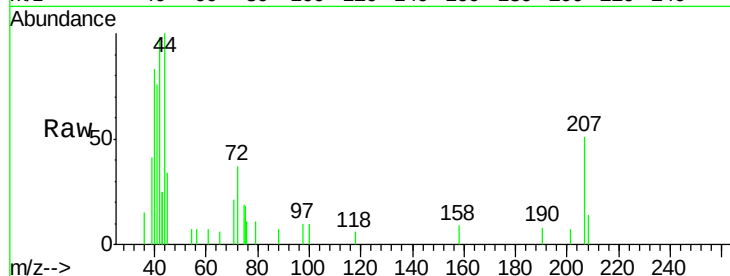
Tot Ion: 42 Resp: 2038

Ion Ratio Lower Upper

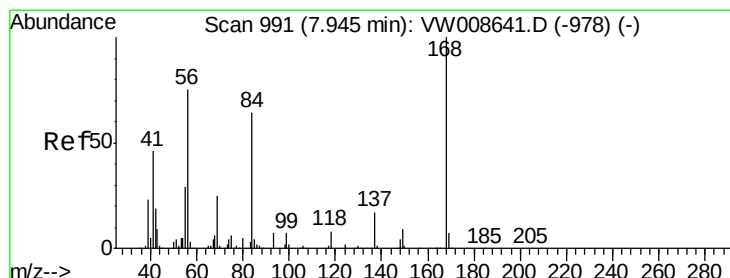
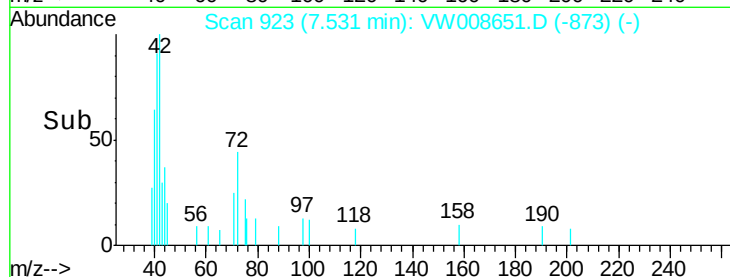
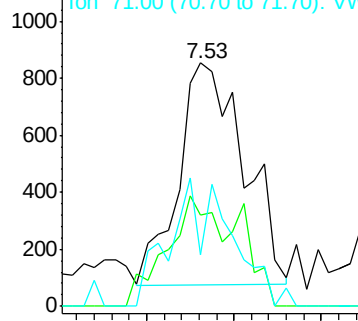
42 100

72 53.2 32.2 48.2#

71 27.1 31.0 46.6#



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: 1.277 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW008651.D

Acq: 13 Feb 2019 21:04

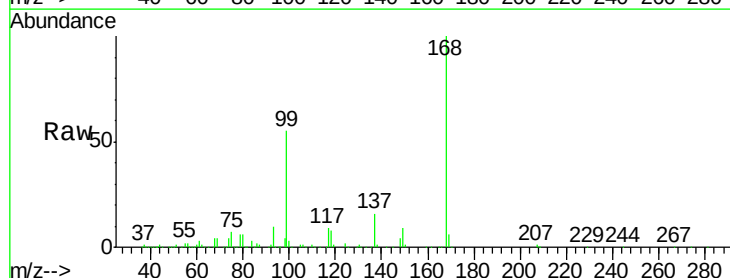
Tgt Ion: 56 Resp: 8182

Ion Ratio Lower Upper

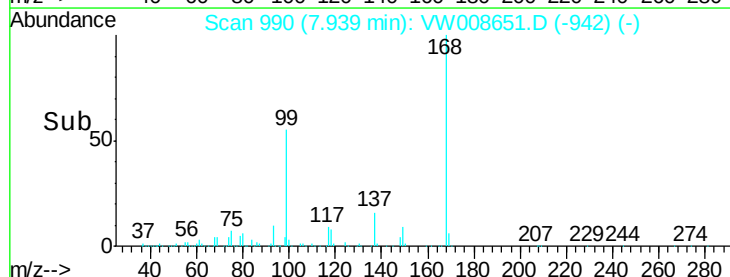
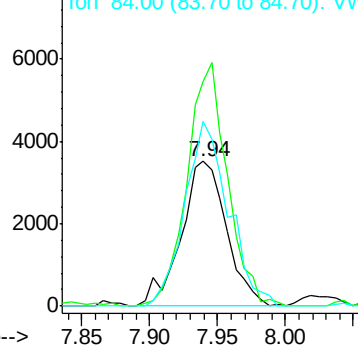
56 100

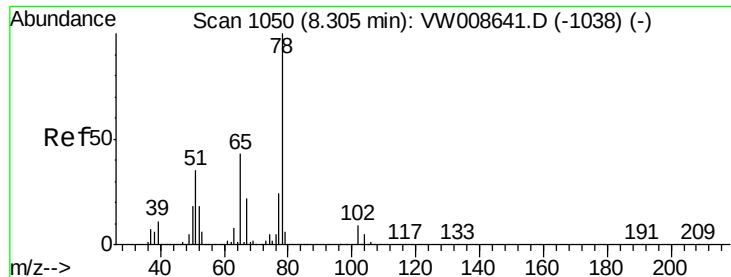
69 155.1 26.4 39.6#

84 128.1 67.4 101.2#



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

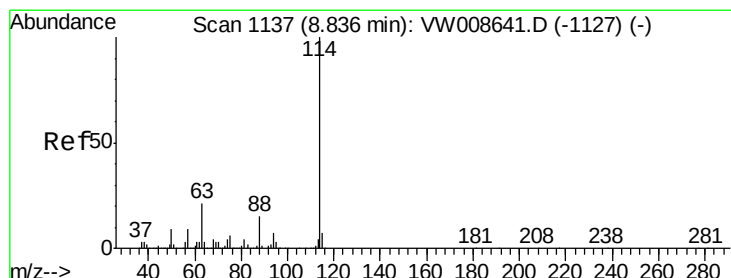
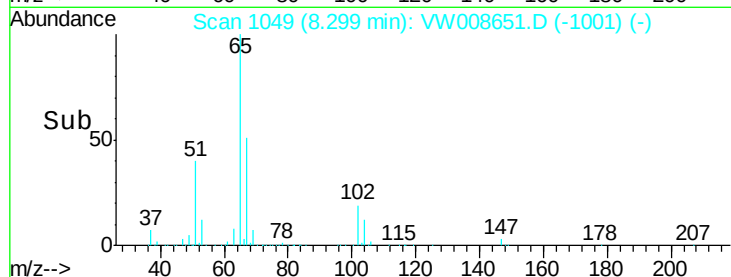
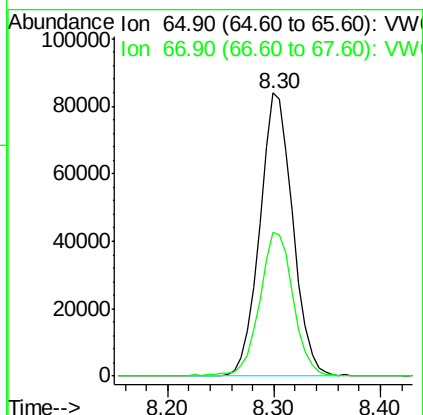
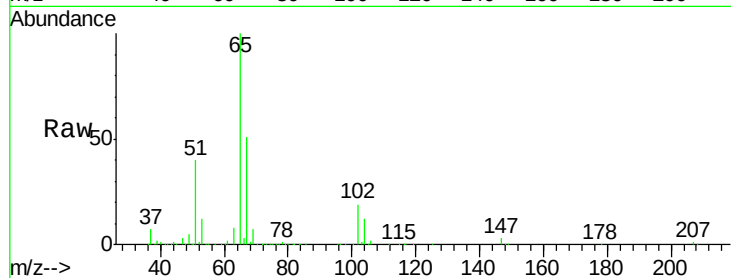




#33
 1,2-Dichloroethane-d4
 Concen: 51.804 ug/l
 RT: 8.30 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VW008651.D
 Acq: 13 Feb 2019 21:04

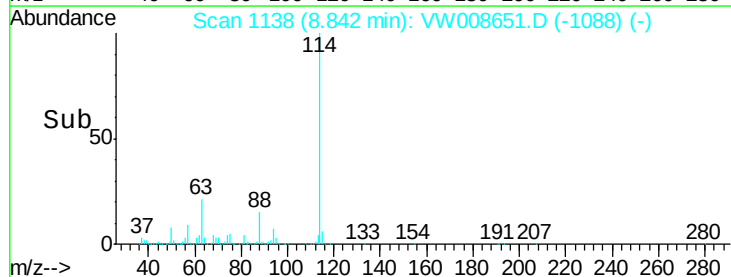
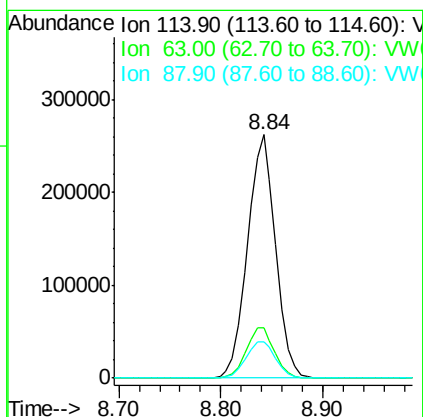
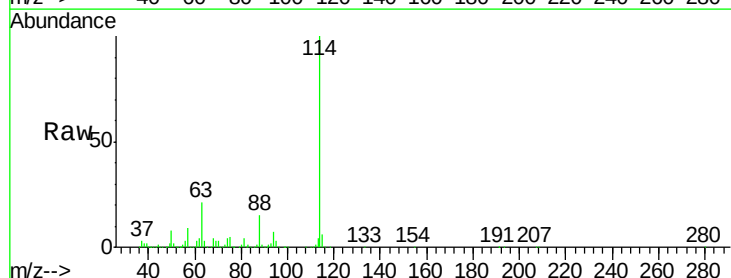
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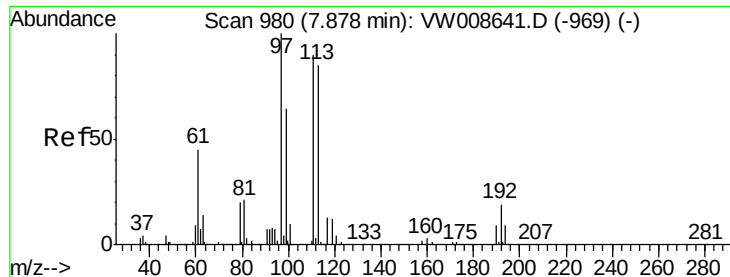
Tot Ion: 65 Resp: 181428
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 102.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.01 min
 Lab File: VW008651.D
 Acq: 13 Feb 2019 21:04

Tgt Ion: 114 Resp: 501077
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 41.2
 88 14.9 0.0 29.6

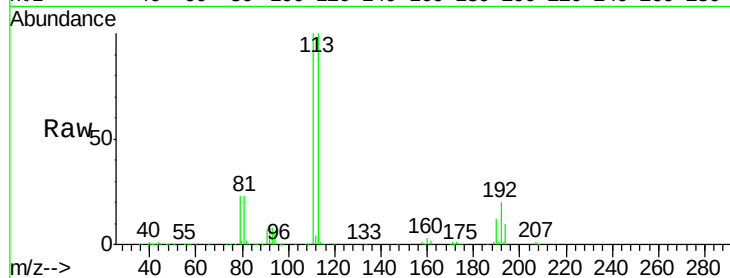




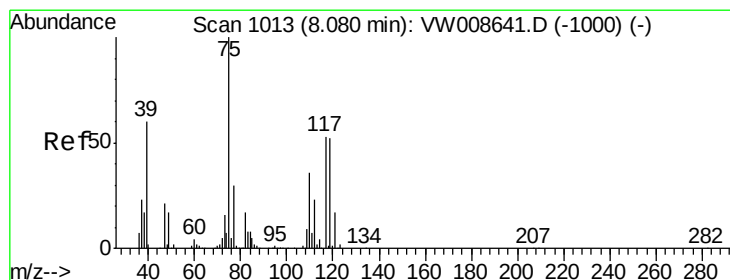
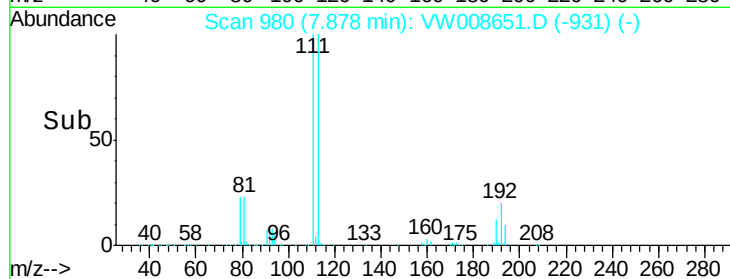
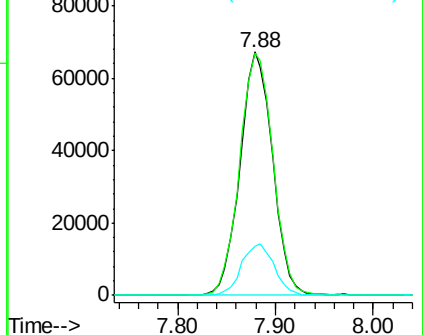
#35
 Dibromofluoromethane
 Concen: 49.970 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. 0.00 min
 Lab File: VW008651.D
 Acq: 13 Feb 2019 21:04

Instrument :
 MSVOA_W
 ClientSampleId :
 HD-02-021119

Tot Ion:113 Resp: 155476
 Ion Ratio Lower Upper
 113 100
 111 102.4 84.0 126.0
 192 21.3 17.4 26.2

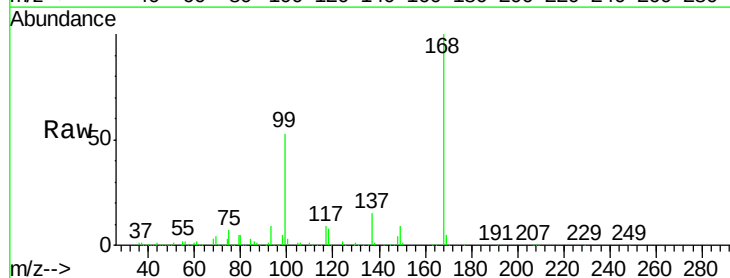


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

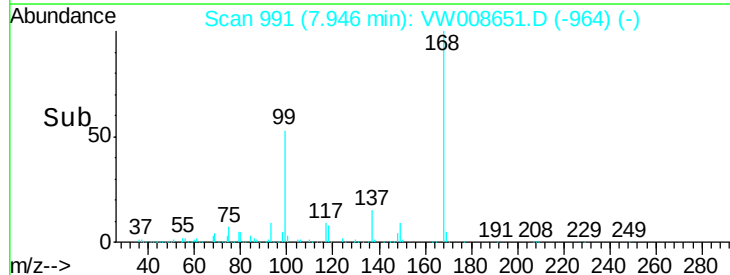
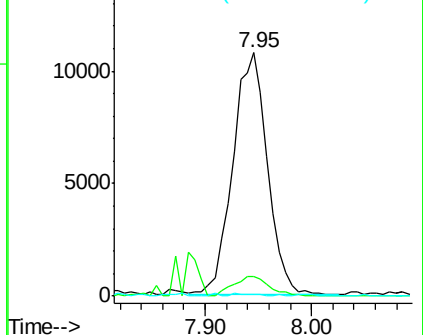


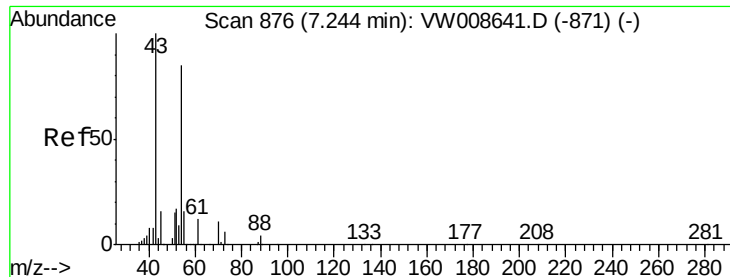
#36
 1,1-Dichloropropene
 Concen: 4.878 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW008651.D
 Acq: 13 Feb 2019 21:04

Tgt Ion: 75 Resp: 24555
 Ion Ratio Lower Upper
 75 100
 110 8.5 17.8 53.3#
 77 0.6 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VW
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VW

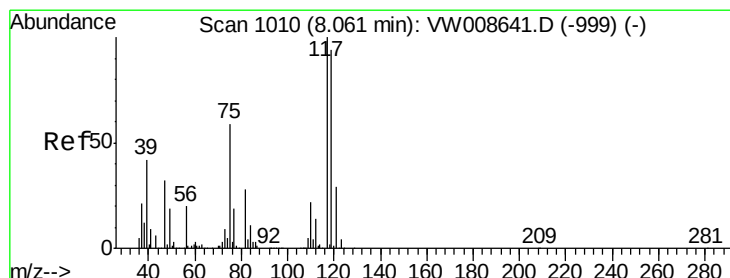
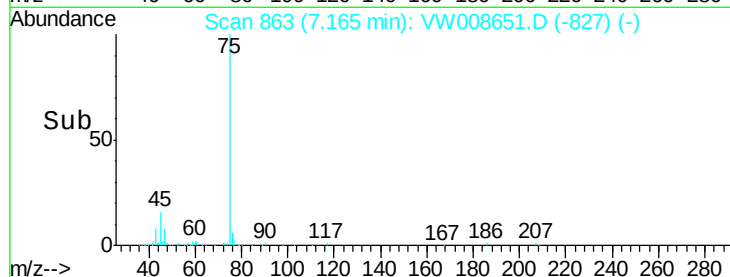
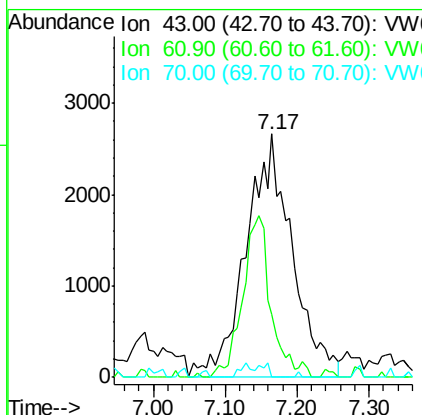
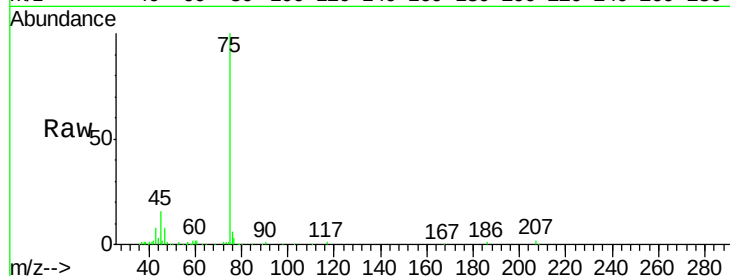




#37
Ethyl Acetate
Concen: 4.836 ug/l
RT: 7.17 min Scan# 863
Delta R.T. -0.08 min
Lab File: VW008651.D
Acq: 13 Feb 2019 21:04

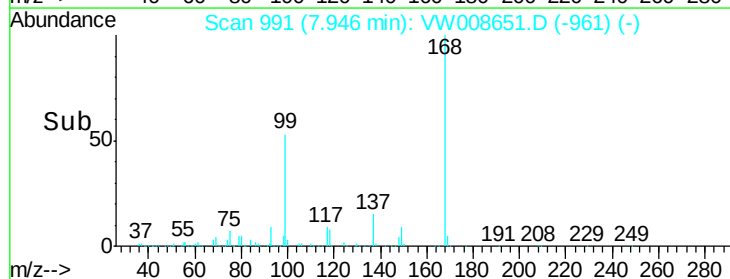
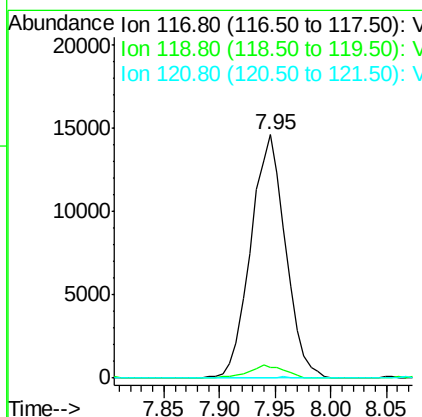
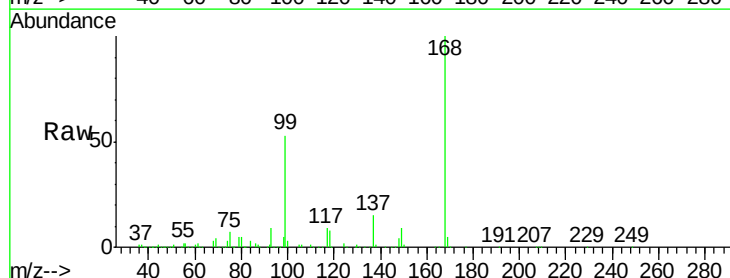
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HD-02-021119

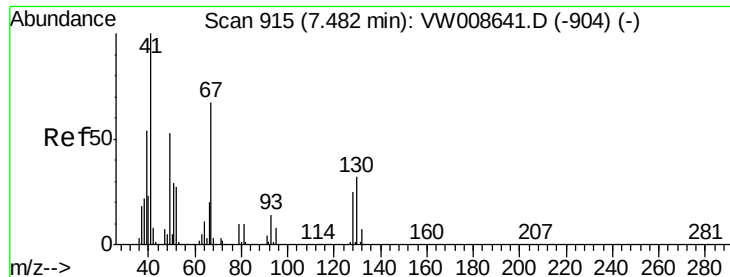
Tot Ion: 43 Resp: 11744
Ion Ratio Lower Upper
43 100
61 40.1 10.5 15.7#
70 1.2 8.1 12.1#



#38
Carbon Tetrachloride
Concen: 6.349 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW008651.D
Acq: 13 Feb 2019 21:04

Tgt Ion: 117 Resp: 31785
Ion Ratio Lower Upper
117 100
119 4.6 75.1 112.7#
121 0.0 23.5 35.3#





#41

Methacrylonitrile

Concen: 1.566 ug/l

RT: 7.53 min Scan# 923

Delta R.T. 0.05 min

Lab File: VW008651.D

Acq: 13 Feb 2019 21:04

Instrument :

MSVOA_W

ClientSampleId :

HD-02-021119

Tot Ion: 41 Resp: 2139

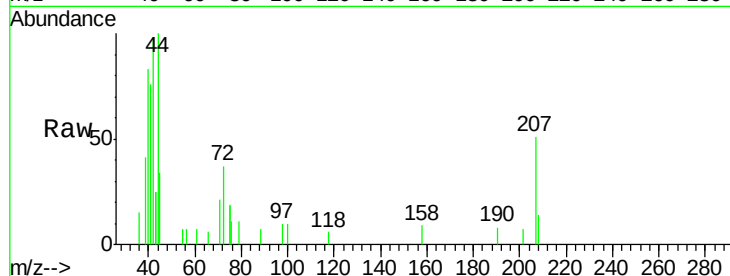
Ion Ratio Lower Upper

41 100

39 12.4 39.7 59.5#

67 1.8 52.5 78.7#

52 0.0 23.1 34.7#

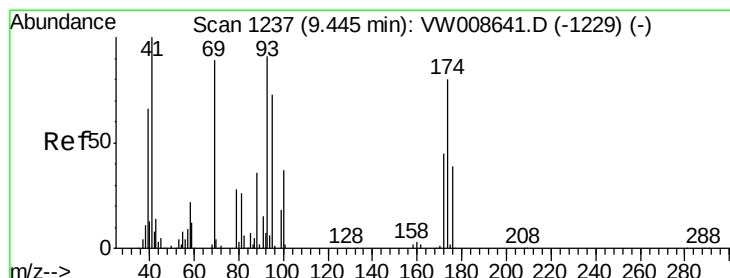
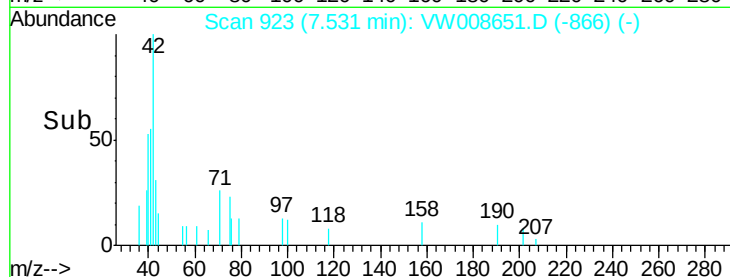
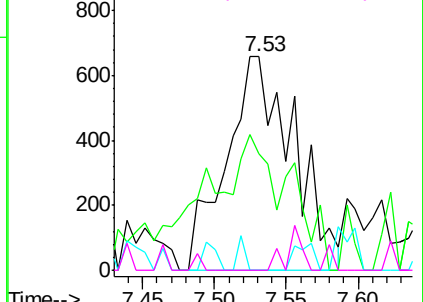


Abundance Ion 41.00 (40.70 to 41.70): VW

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



#49

1,4-Dioxane

Concen: 2.975 ug/l

RT: 9.32 min Scan# 1216

Delta R.T. -0.13 min

Lab File: VW008651.D

Acq: 13 Feb 2019 21:04

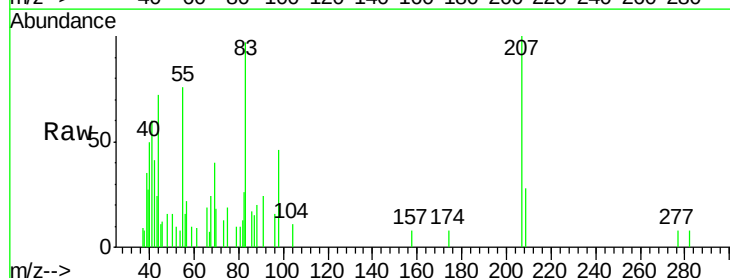
Tgt Ion: 88 Resp: 89

Ion Ratio Lower Upper

88 100

43 0.0 31.0 46.6#

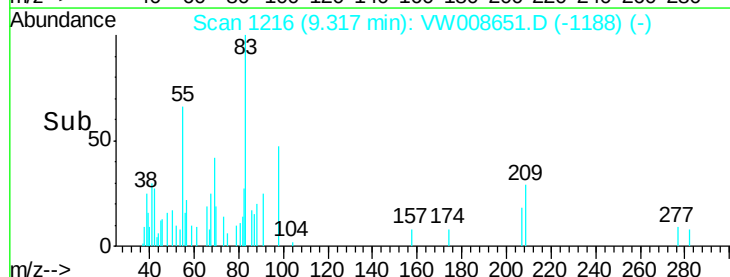
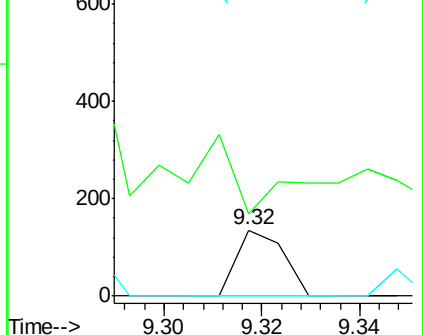
58 0.0 57.0 85.6#

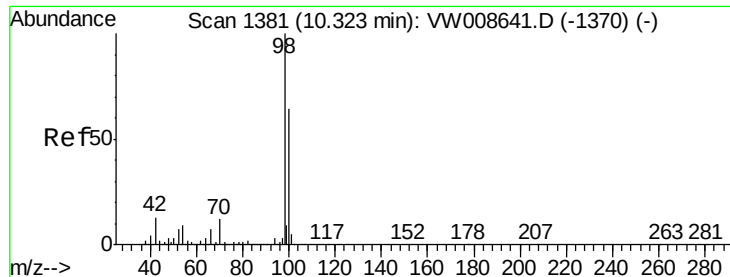


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 49.216 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008651.D

Acq: 13 Feb 2019 21:04

Instrument :

MSVOA_W

ClientSampleId :

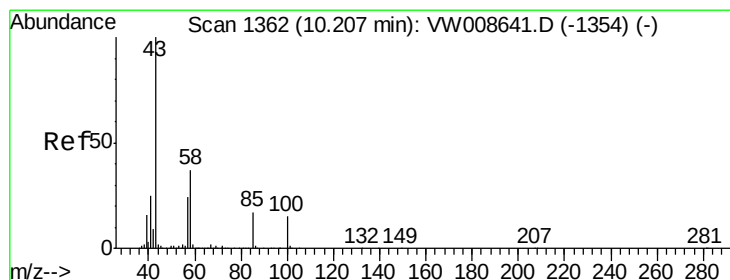
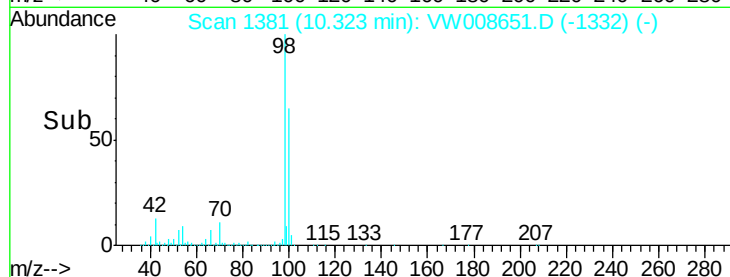
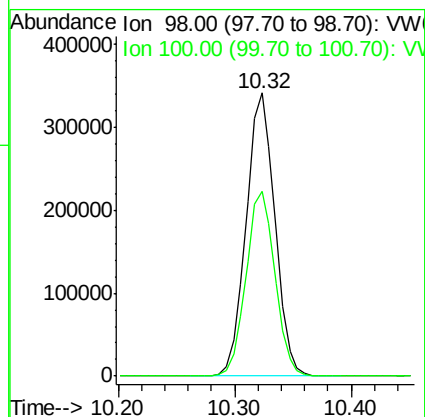
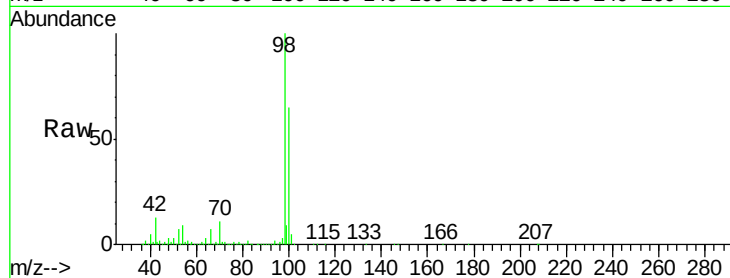
HD-02-021119

Tot Ion: 98 Resp: 590294

Ion Ratio Lower Upper

98 100

100 65.4 52.2 78.4



#51

4-Methyl-2-Pentanone

Concen: 1.698 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW008651.D

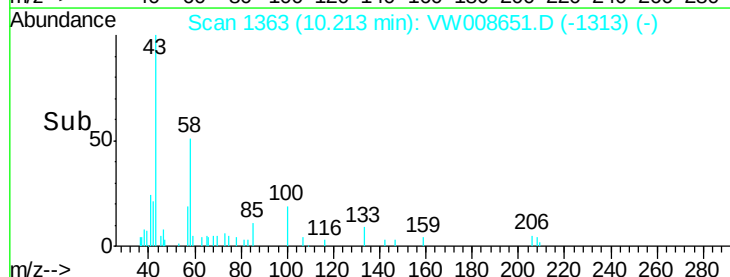
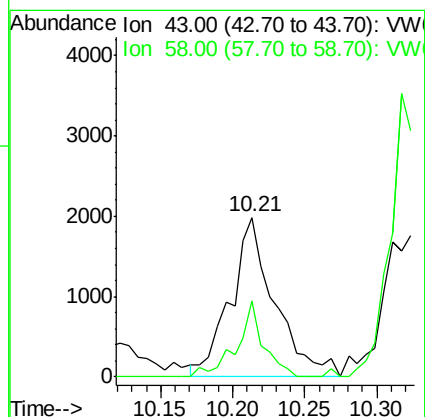
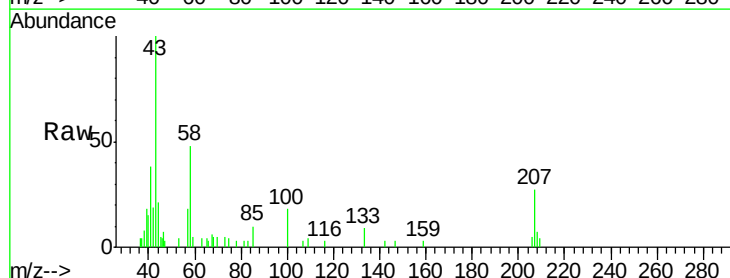
Acq: 13 Feb 2019 21:04

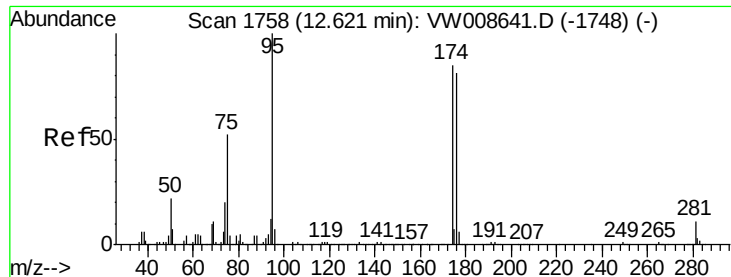
Tgt Ion: 43 Resp: 4223

Ion Ratio Lower Upper

43 100

58 28.7 29.0 43.6#





#62

4-Bromofluorobenzene

Concen: 45.807 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW008651.D

Acq: 13 Feb 2019 21:04

Instrument :

MSVOA_W

ClientSampleId :

HD-02-021119

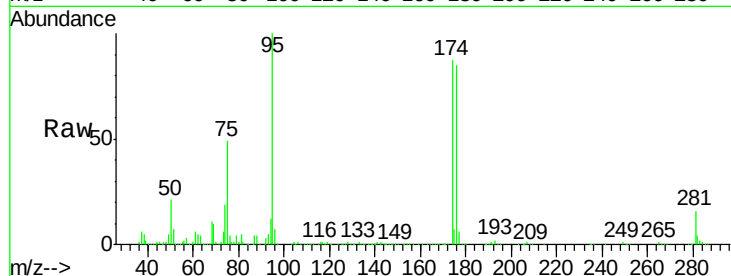
Tot Ion: 95 Resp: 206942

Ion Ratio Lower Upper

95 100

174 83.1 0.0 163.2

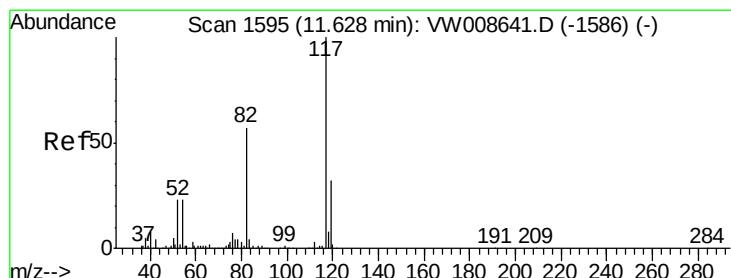
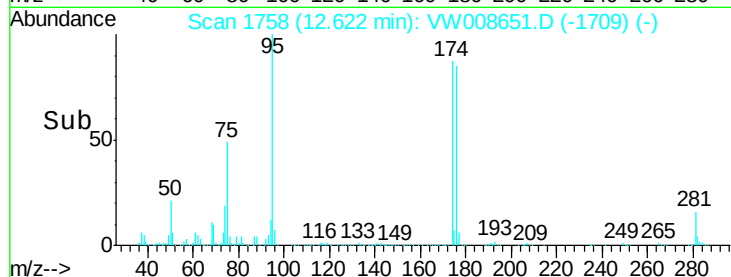
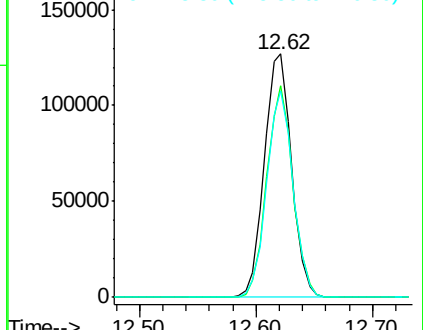
176 82.0 0.0 158.0



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VW008651.D

Acq: 13 Feb 2019 21:04

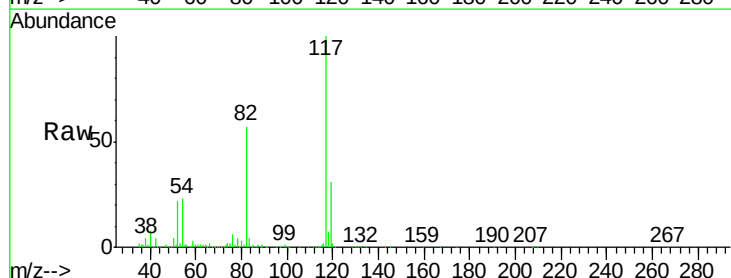
Tgt Ion: 117 Resp: 435376

Ion Ratio Lower Upper

117 100

82 57.3 45.6 68.4

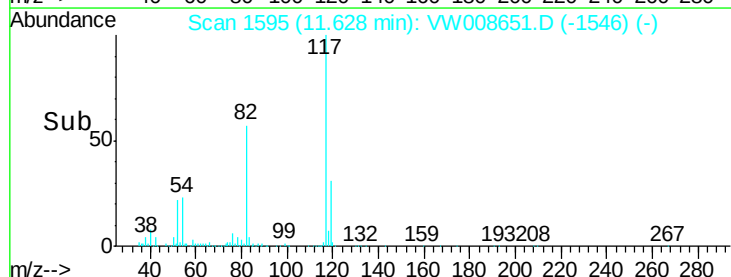
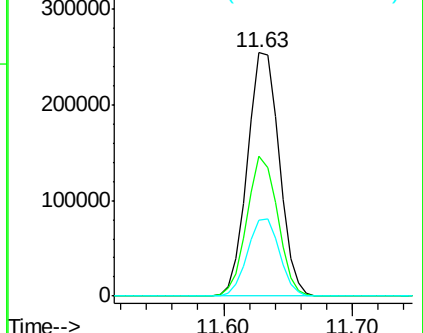
119 31.0 25.7 38.5

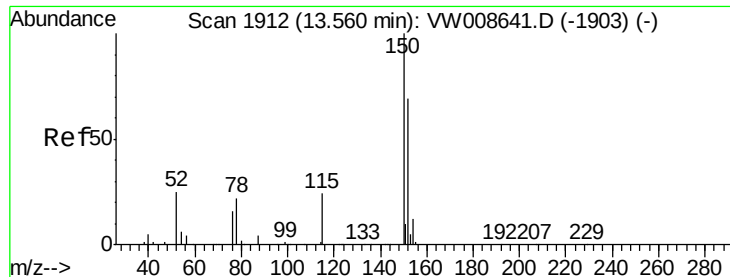


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW008651.D

Acq: 13 Feb 2019 21:04

Instrument :

MSVOA_W

ClientSampleId :

HD-02-021119

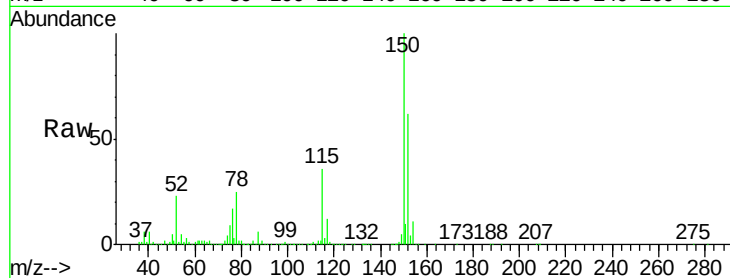
Tot Ion:152 Resp: 200725

Ion Ratio Lower Upper

152 100

115 57.6 29.3 87.8

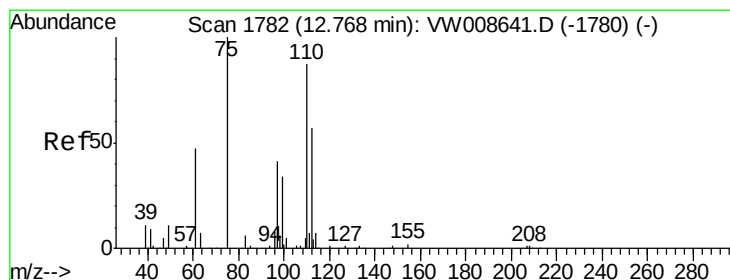
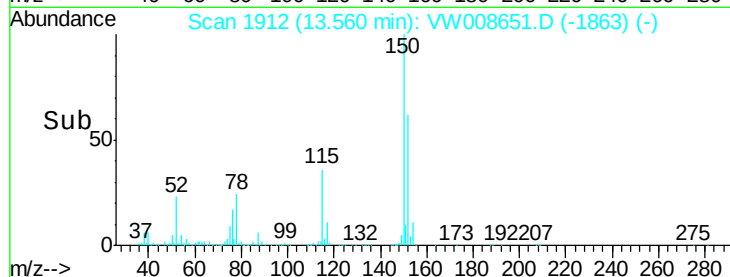
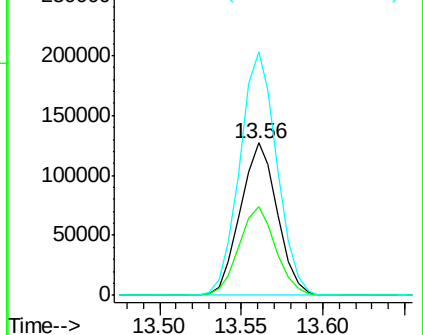
150 160.1 0.0 352.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 54.737 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW008651.D

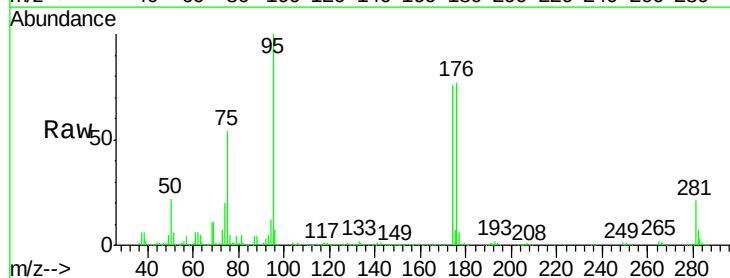
Acq: 13 Feb 2019 21:04

Tgt Ion: 75 Resp: 108492

Ion Ratio Lower Upper

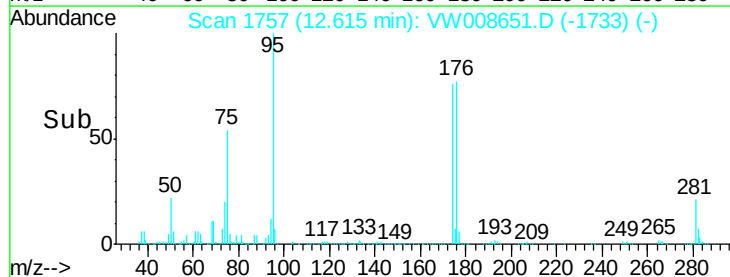
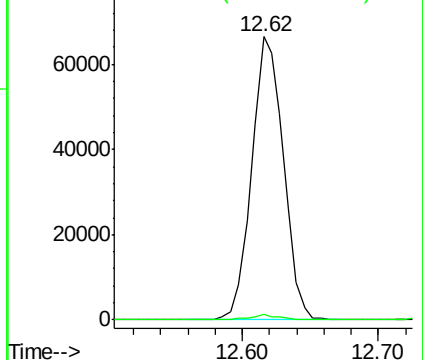
75 100

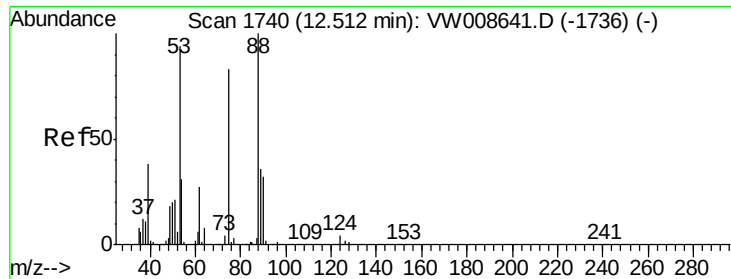
77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 117.122 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW008651.D

Acq: 13 Feb 2019 21:04

Instrument :

MSVOA_W

ClientSampleId :

HD-02-021119

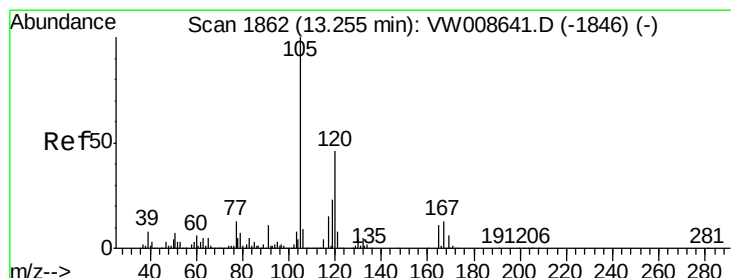
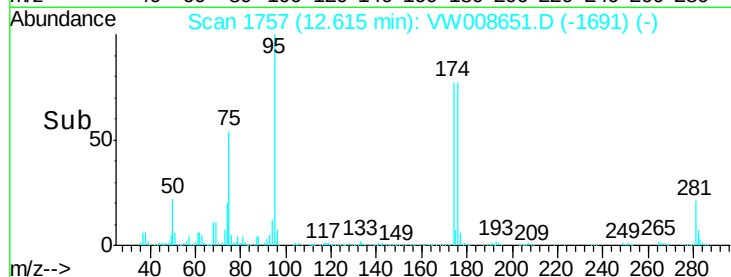
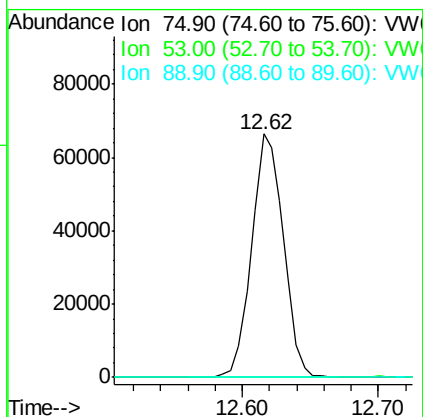
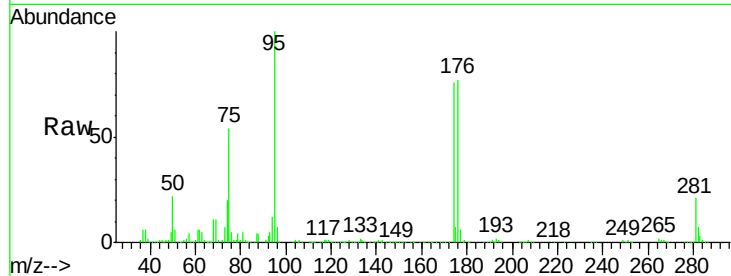
Tot Ion: 75 Resp: 108492

Ion Ratio Lower Upper

75 100

53 0.3 87.4 131.0#

89 0.0 37.0 55.4#



#84

1,2,4-Trimethylbenzene

Concen: 1.539 ug/l

RT: 13.25 min Scan# 1861

Delta R.T. -0.01 min

Lab File: VW008651.D

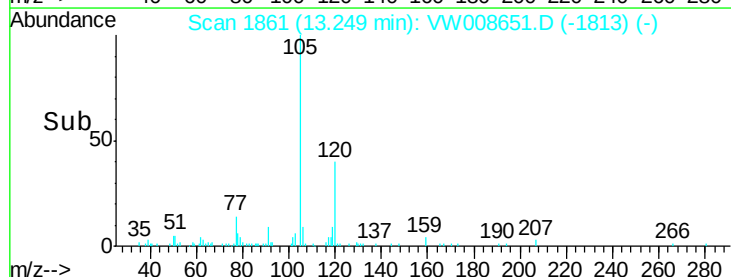
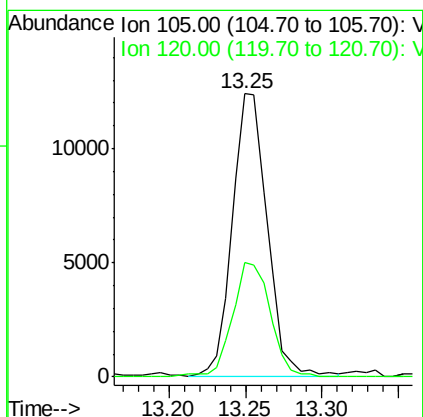
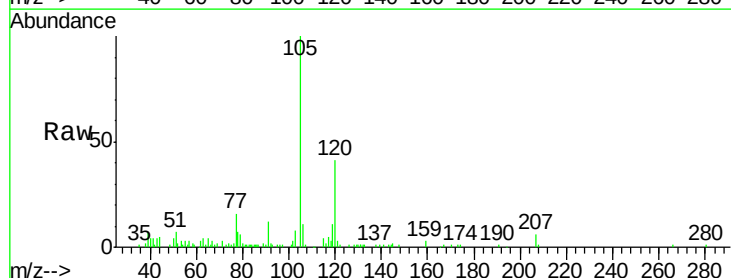
Acq: 13 Feb 2019 21:04

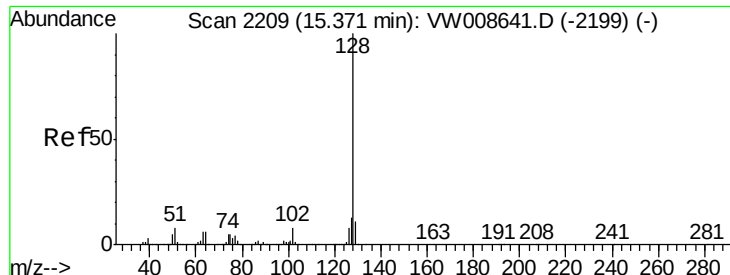
Tgt Ion: 105 Resp: 19639

Ion Ratio Lower Upper

105 100

120 43.7 22.9 68.8





#95

Naphthalene

Concen: 1.485 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW008651.D

Acq: 13 Feb 2019 21:04

Instrument :

MSVOA_W

ClientSampleId :

HD-02-021119

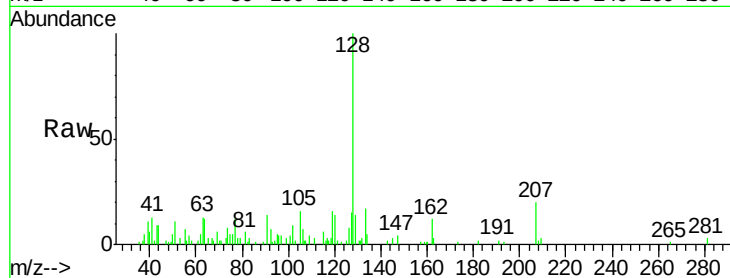
Tot Ion:128 Resp: 11690

Ion Ratio Lower Upper

128 100

127 15.9 10.9 16.3

129 9.2 8.7 13.1



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

