

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW062819\
 Data File : VW011039.D
 Acq On : 28 Jun 2019 02:15
 Operator : SY/VA
 Sample : K3517-11
 Misc : 6.84G/5ML/MSVOA W/SOIL
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 CL-02-062619-A

Quant Time: Jun 28 08:34:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W062819S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 28 01:55:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	186539	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	308314	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	261426	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	110705	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	123628	50.70	ug/l	0.00
Spiked Amount			Recovery	=	101.40%	
35) Dibromofluoromethane	7.88	113	94242	50.06	ug/l	0.00
Spiked Amount			Recovery	=	100.12%	
50) Toluene-d8	10.32	98	383708	49.51	ug/l	0.00
Spiked Amount			Recovery	=	99.02%	
62) 4-Bromofluorobenzene	12.62	95	125162	44.16	ug/l	0.00
Spiked Amount			Recovery	=	88.32%	

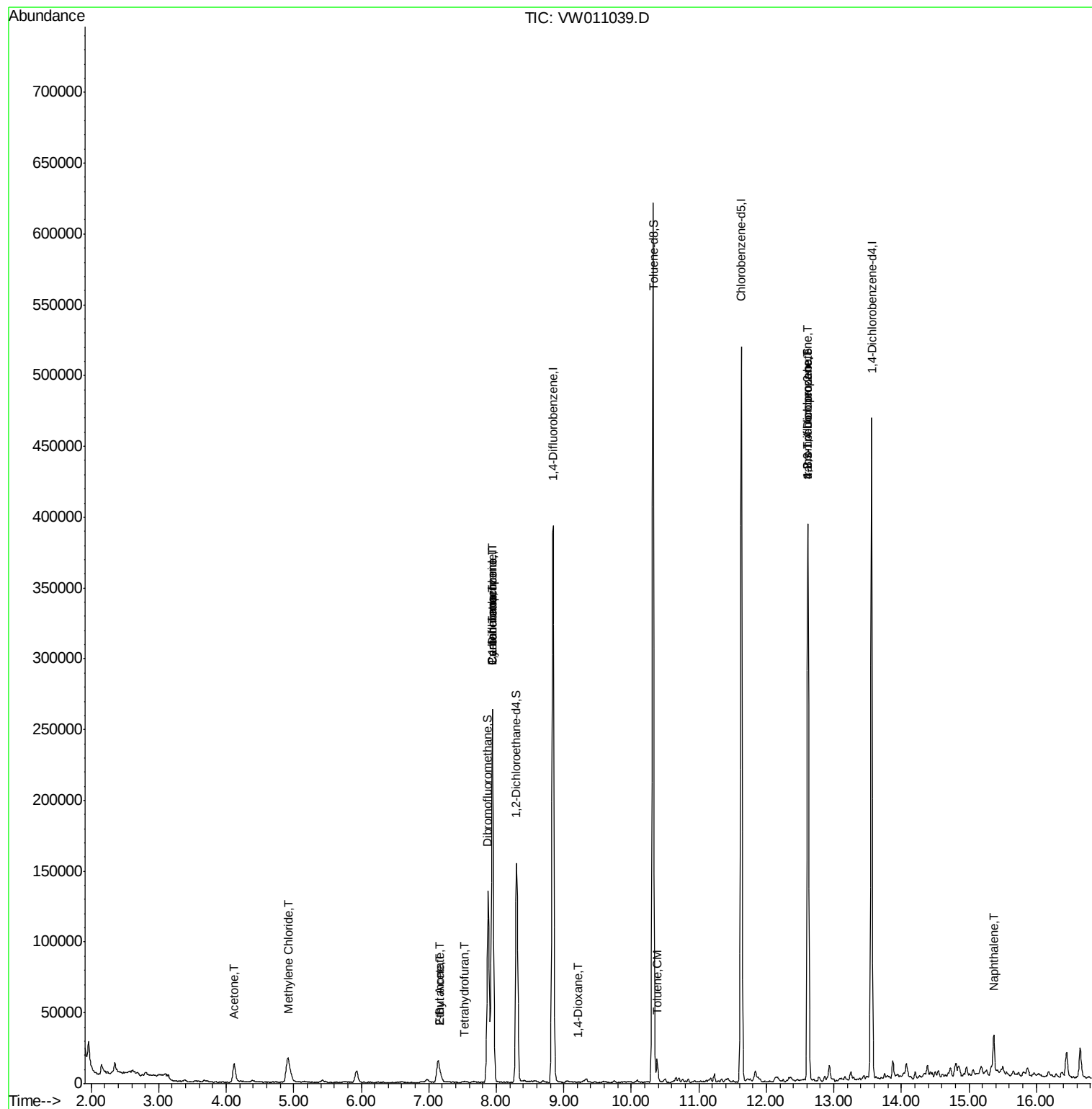
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	4.12	43	24235	40.715	ug/l	100
20) Methylene Chloride	4.91	84	13942	5.765	ug/l	96
25) 2-Butanone	7.17	43	7368	8.143	ug/l	96
29) Tetrahydrofuran	7.54	42	792	1.406	ug/l #	63
31) Cyclohexane	7.94	56	5200	1.115	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	16792	5.067	ug/l #	51
37) Ethyl Acetate	7.17	43	7368	3.822	ug/l #	73
38) Carbon Tetrachloride	7.95	117	19103	7.000	ug/l #	15
49) 1,4-Dioxane	9.21	88	25	1.284	ug/l #	1
52) Toluene	10.38	92	6161	1.104	ug/l	96
76) 1,2,3-Trichloropropane	12.62	75	68930	58.977	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	68930	119.294	ug/l #	3
95) Naphthalene	15.37	128	23203	5.421	ug/l	97

(#) = 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: VW011039.D

Acq: 28 Jun 2019 02:15

Instrument :

MSVOA_W

ClientSampleId :

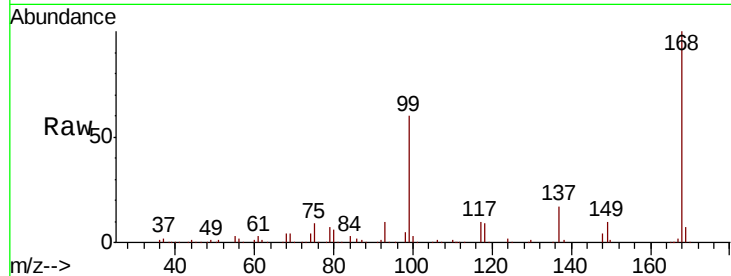
CL-02-062619-A

Tot Ion:168 Resp: 186539

Ion Ratio Lower Upper

168 100

99 60.4 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

80000

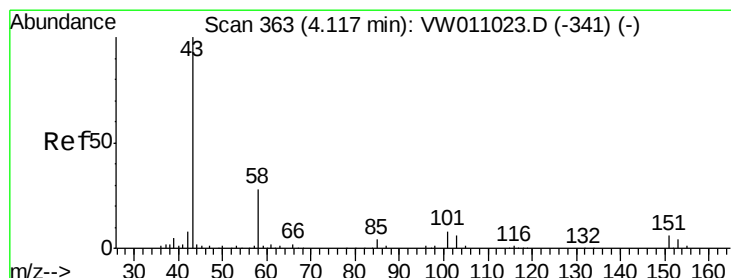
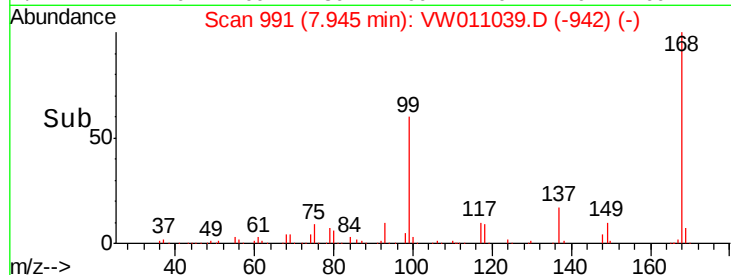
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#16

Acetone

Concen: 40.715 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW011039.D

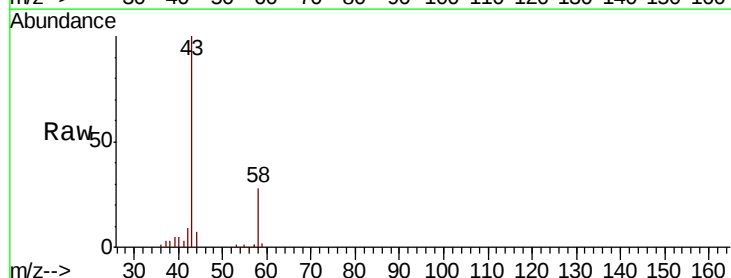
Acq: 28 Jun 2019 02:15

Tgt Ion: 43 Resp: 24235

Ion Ratio Lower Upper

43 100

58 28.1 22.5 33.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.12

8000

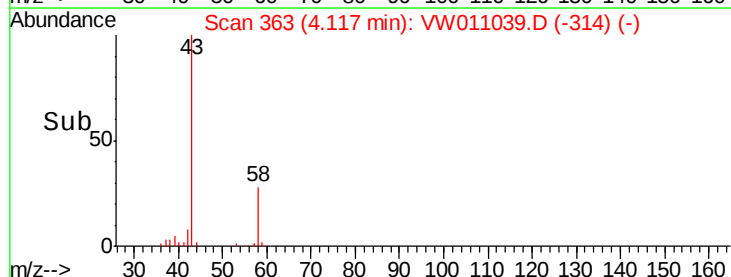
6000

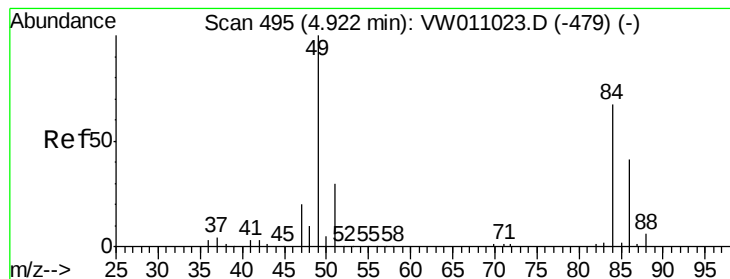
4000

2000

0

Time--> 4.00 4.10 4.20





#20

Methvlene Chloride

Concen: 5.765 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW011039.D

Acq: 28 Jun 2019 02:15

Instrument :

MSVOA_W

ClientSampleId :

CL-02-062619-A

Tot Ion: 84 Resp: 13942

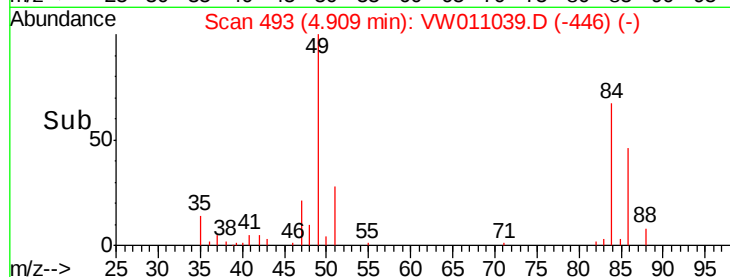
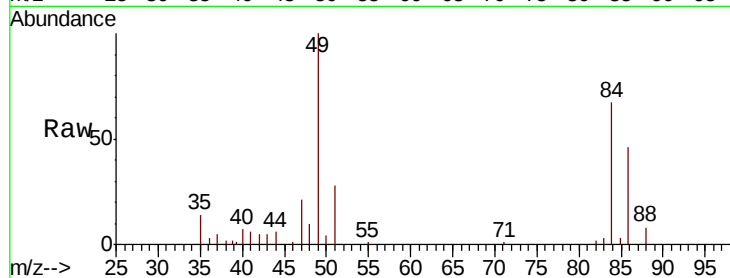
Ion Ratio Lower Upper

84 100

49 148.2 119.6 179.4

51 40.9 35.6 53.4

86 68.3 49.0 73.6

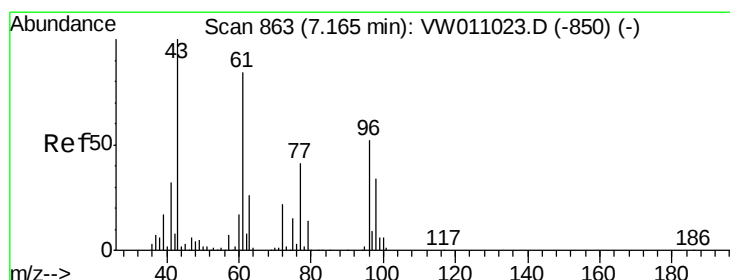
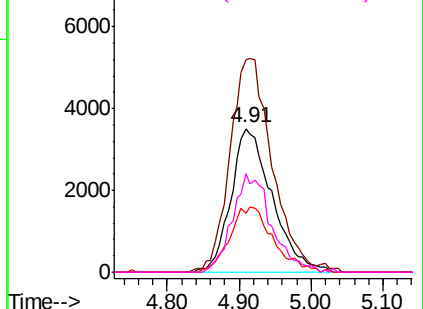


Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#25

2-Butanone

Concen: 8.143 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW011039.D

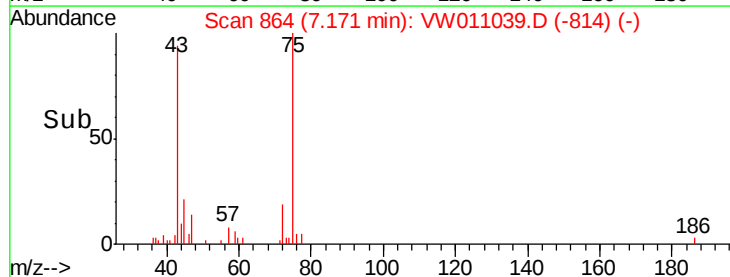
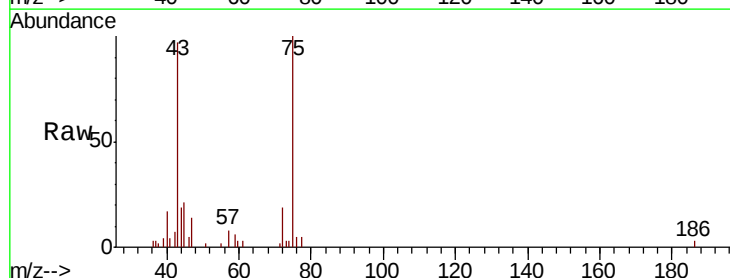
Acq: 28 Jun 2019 02:15

Tgt Ion: 43 Resp: 7368

Ion Ratio Lower Upper

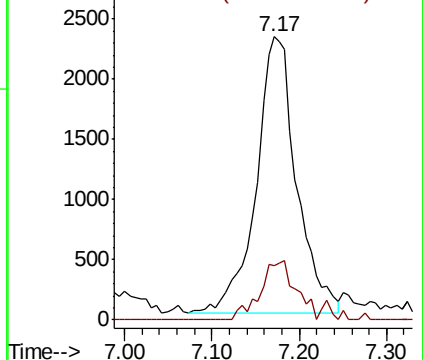
43 100

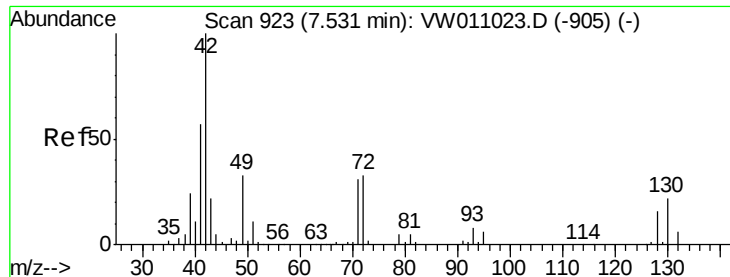
72 19.8 17.2 25.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW





#29

Tetrahydrofuran

Concen: 1.406 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW011039.D

Acq: 28 Jun 2019 02:15

Instrument :

MSVOA_W

ClientSampleId :

CL-02-062619-A

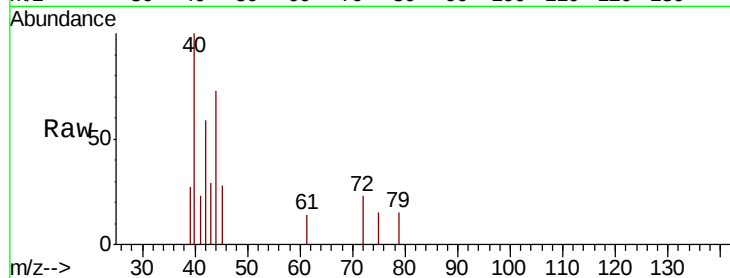
Tot Ion: 42 Resp: 792

Ion Ratio Lower Upper

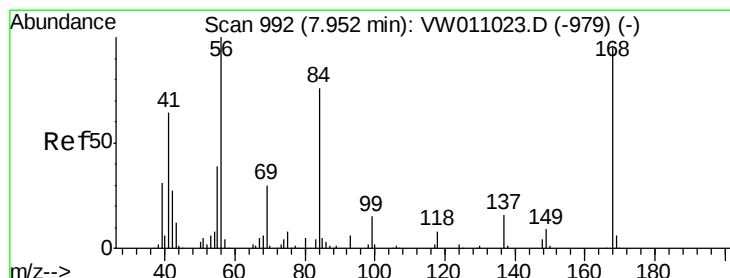
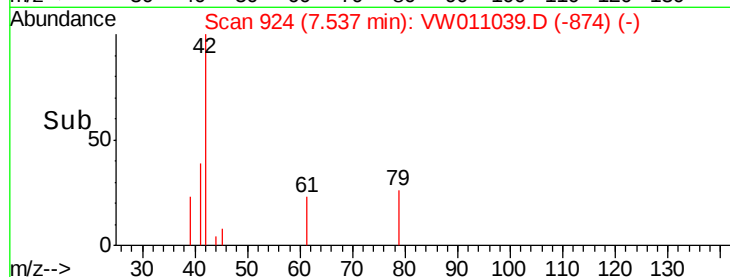
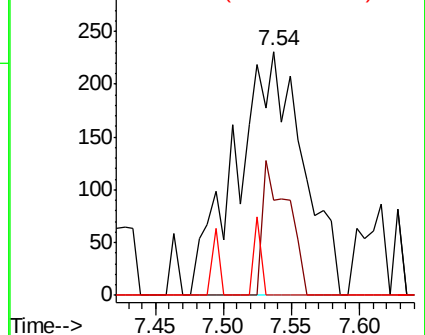
42 100

72 20.8 27.4 41.0#

71 3.4 25.6 38.4#



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: 1.115 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW011039.D

Acq: 28 Jun 2019 02:15

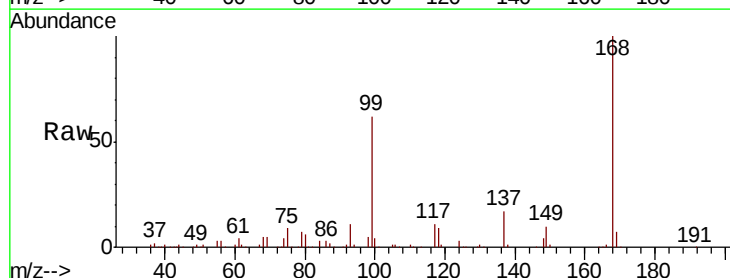
Tgt Ion: 56 Resp: 5200

Ion Ratio Lower Upper

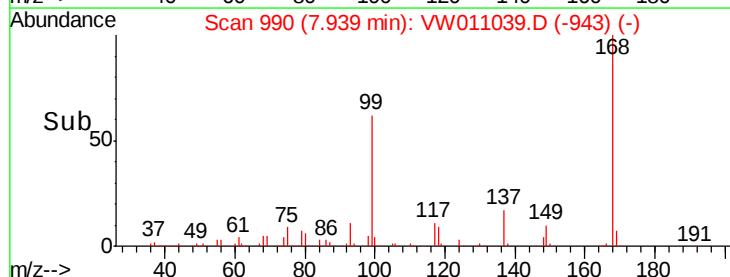
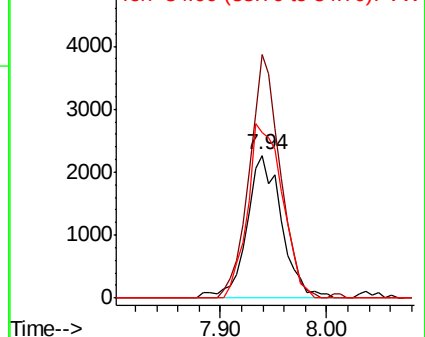
56 100

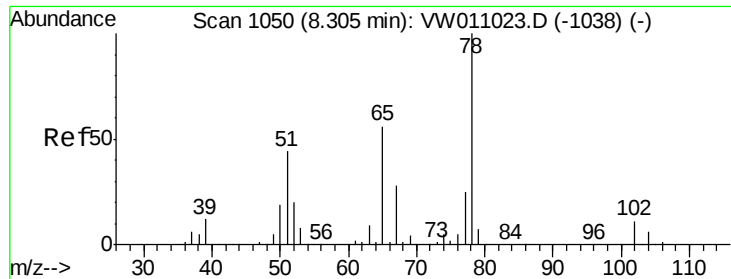
69 170.5 24.2 36.2#

84 116.3 60.6 90.8#



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

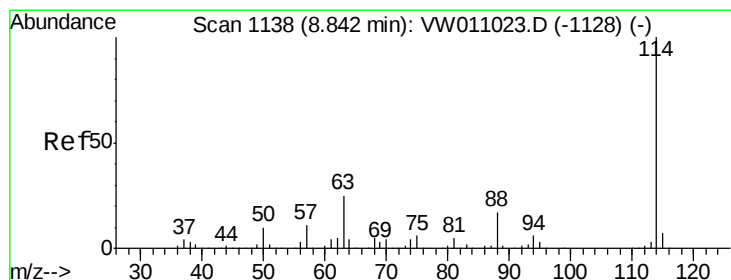
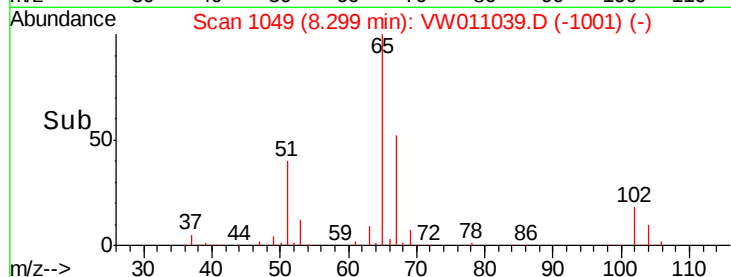
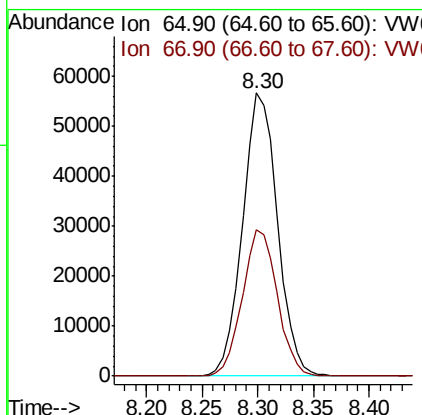
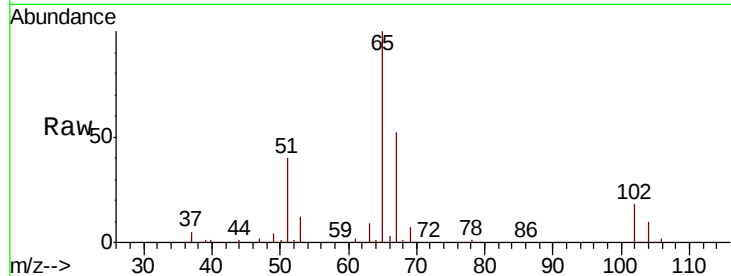




#33
 1,2-Dichloroethane-d4
 Concen: 50.697 ug/l
 RT: 8.30 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VW011039.D
 Acq: 28 Jun 2019 02:15

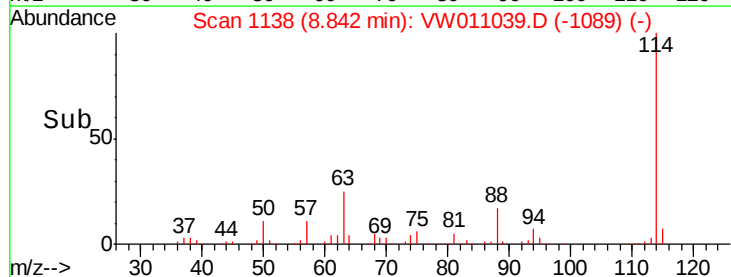
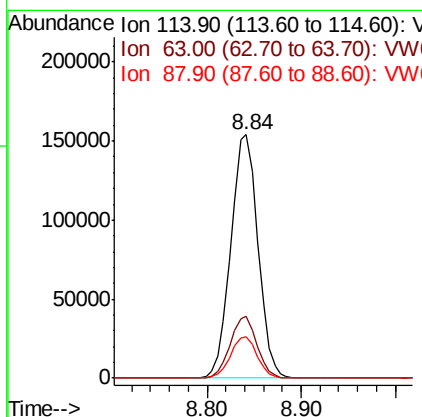
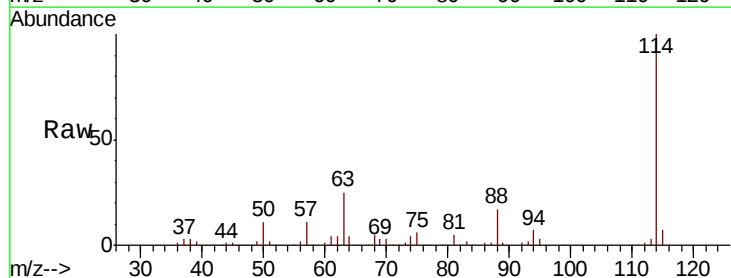
Instrument :
 MSVOA_W
 ClientSampleId :
 CL-02-062619-A

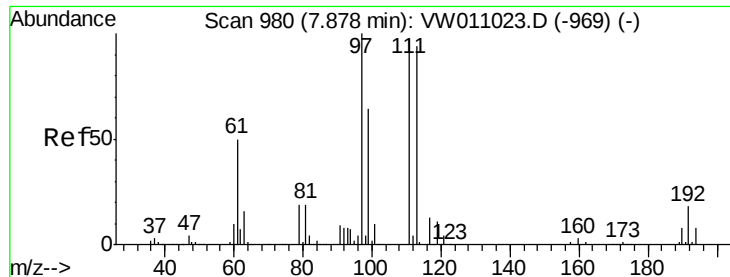
Tot Ion: 65 Resp: 123628
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 102.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW011039.D
 Acq: 28 Jun 2019 02:15

Tgt Ion: 114 Resp: 308314
 Ion Ratio Lower Upper
 114 100
 63 25.3 0.0 50.6
 88 17.0 0.0 34.0

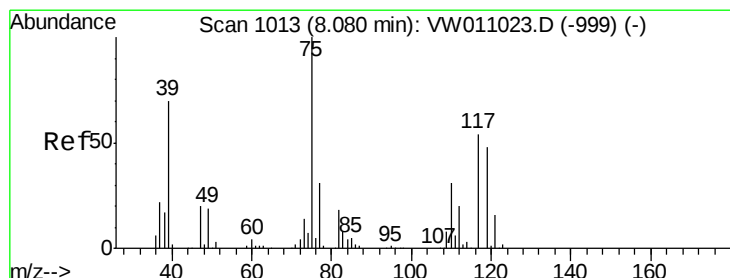
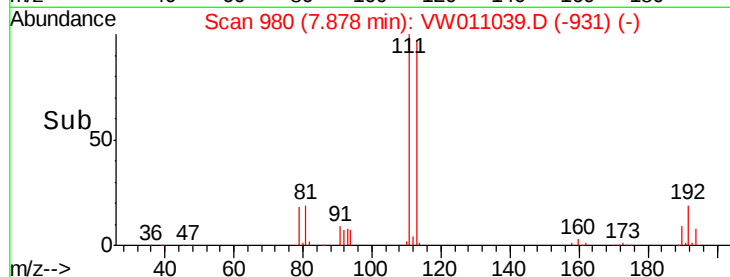
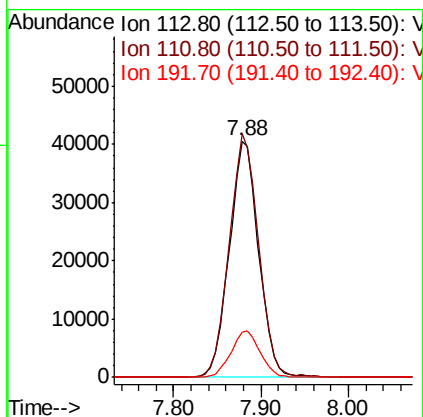
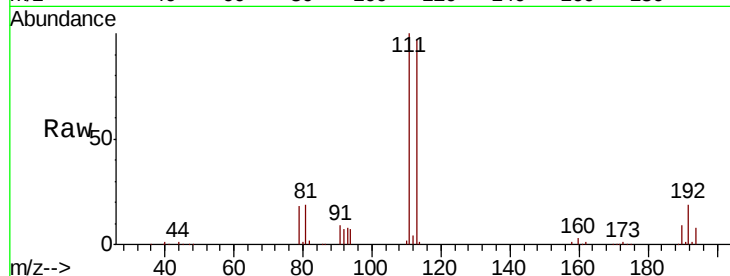




#35
 Dibromofluoromethane
 Concen: 50.057 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.00 min
 Lab File: VW011039.D
 Acq: 28 Jun 2019 02:15

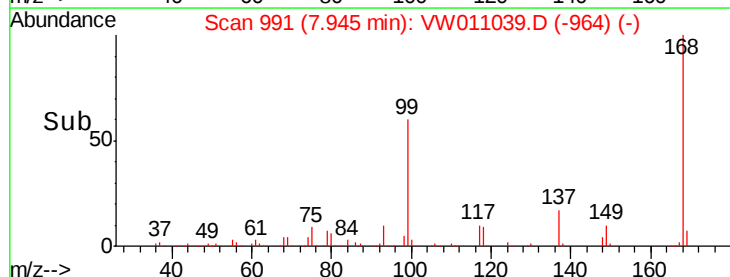
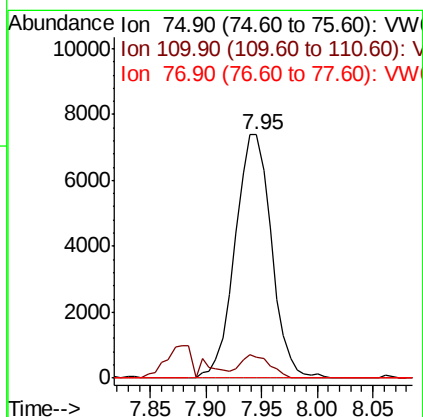
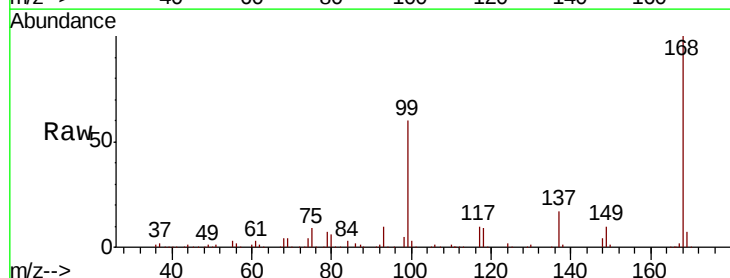
Instrument :
 MSVOA_W
 ClientSampleId :
 CL-02-062619-A

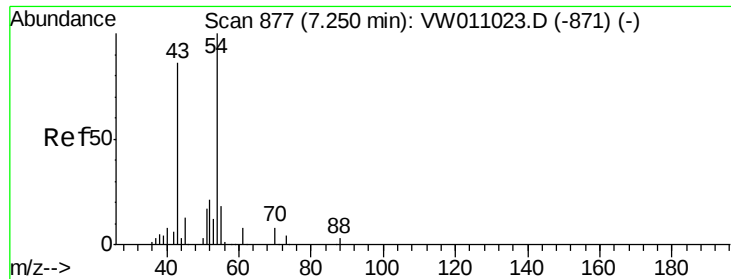
Tot Ion:113 Resp: 94242
 Ion Ratio Lower Upper
 113 100
 111 102.7 83.8 125.6
 192 19.6 16.0 24.0



#36
 1,1-Dichloropropene
 Concen: 5.067 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW011039.D
 Acq: 28 Jun 2019 02:15

Tgt Ion: 75 Resp: 16792
 Ion Ratio Lower Upper
 75 100
 110 7.7 15.5 46.5#
 77 0.0 24.9 37.3#





#37

Ethyl Acetate

Concen: 3.822 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.08 min

Lab File: VW011039.D

Acq: 28 Jun 2019 02:15

Instrument :

MSVOA_W

ClientSampleId :

CL-02-062619-A

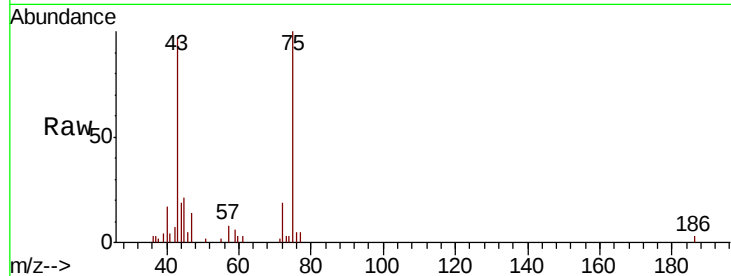
Tot Ion: 43 Resp: 7368

Ion Ratio Lower Upper

43 100

61 0.0 9.0 13.4#

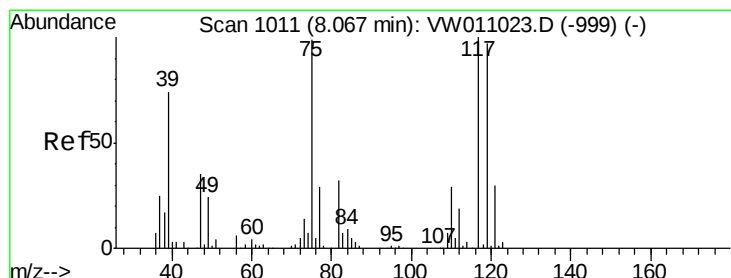
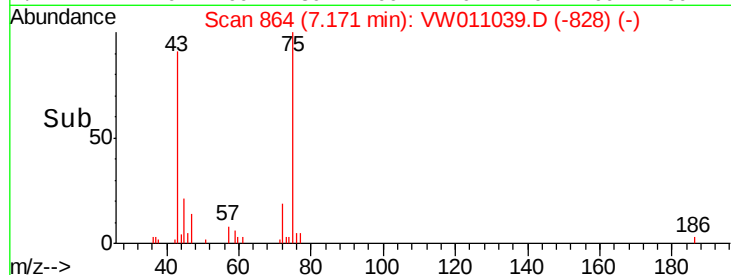
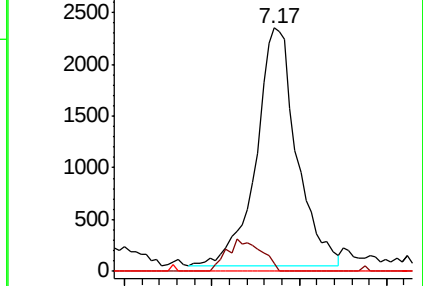
70 0.0 7.2 10.8#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 70.00 (69.70 to 70.70): VW



#38

Carbon Tetrachloride

Concen: 7.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW011039.D

Acq: 28 Jun 2019 02:15

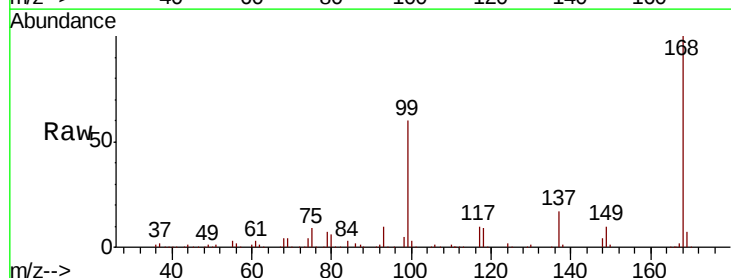
Tgt Ion: 117 Resp: 19103

Ion Ratio Lower Upper

117 100

119 4.9 77.7 116.5#

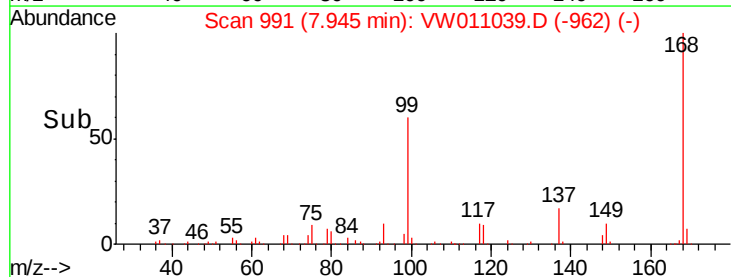
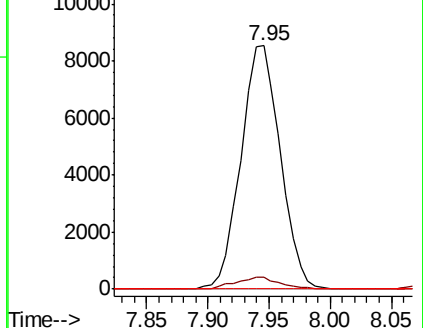
121 0.0 23.9 35.9#

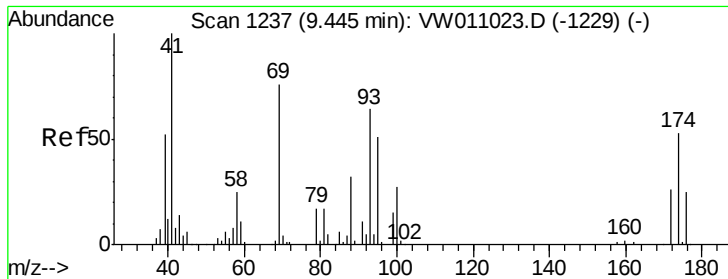


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 1.284 ug/l

RT: 9.21 min Scan# 1198

Delta R.T. -0.24 min

Lab File: VW011039.D

Acq: 28 Jun 2019 02:15

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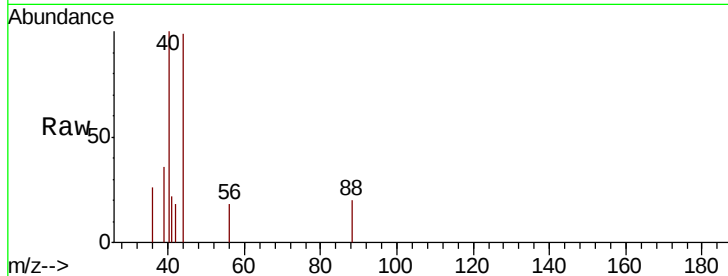
Tot Ion: 88 Resp: 25

Ion Ratio Lower Upper

88 100

43 200.0 34.4 51.6#

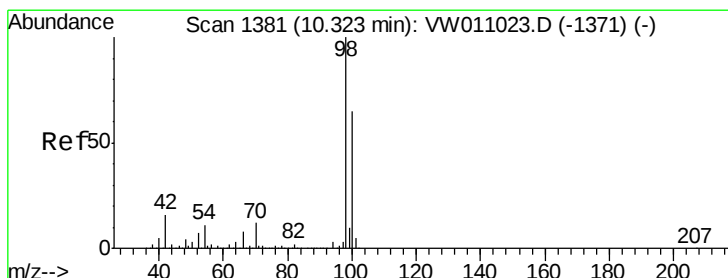
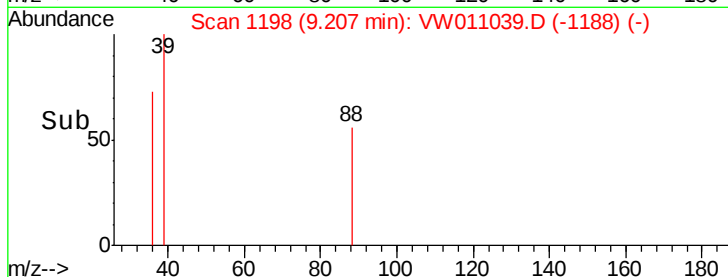
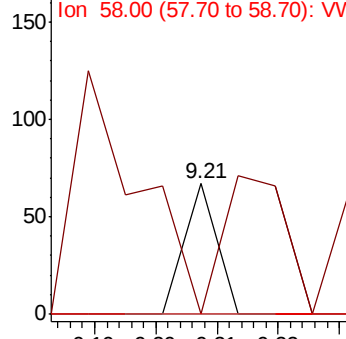
58 0.0 65.2 97.8#



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: 49.513 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW011039.D

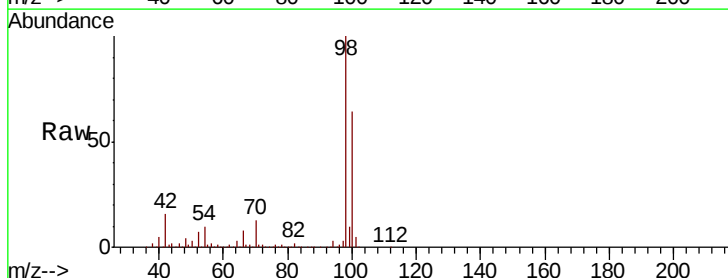
Acq: 28 Jun 2019 02:15

Tgt Ion: 98 Resp: 383708

Ion Ratio Lower Upper

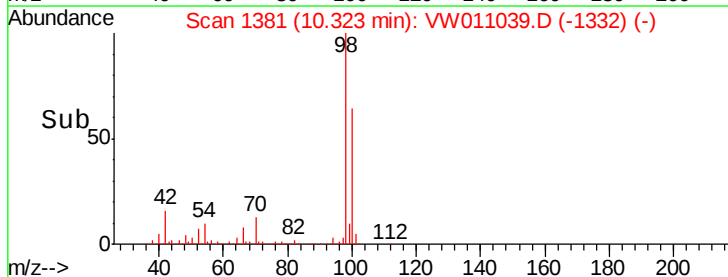
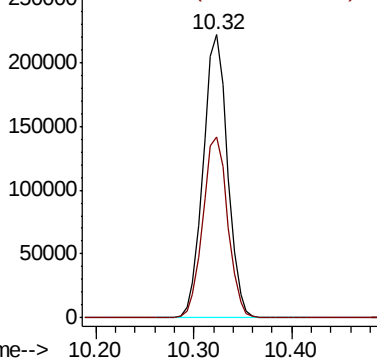
98 100

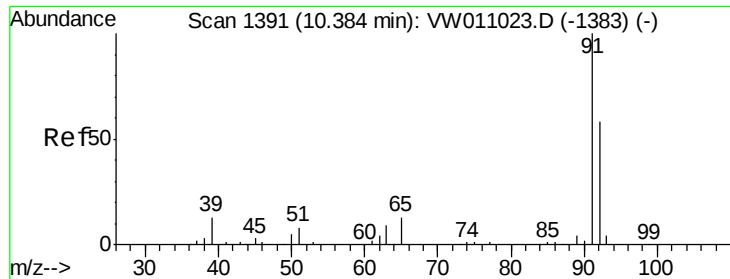
100 65.3 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#52

Toluene

Concen: 1.104 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW011039.D

Acq: 28 Jun 2019 02:15

Instrument :

MSVOA_W

ClientSampleId :

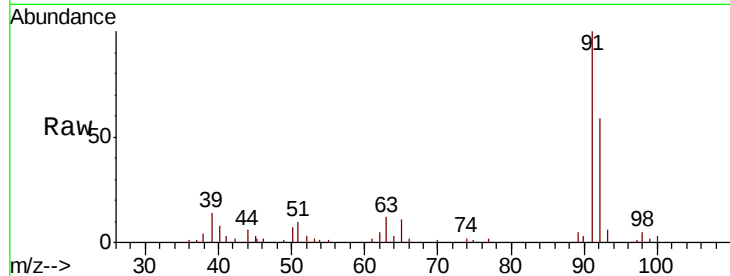
CL-02-062619-A

Tot Ion: 92 Resp: 6161

Ion Ratio Lower Upper

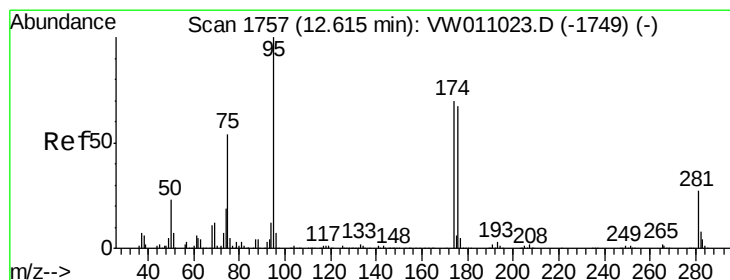
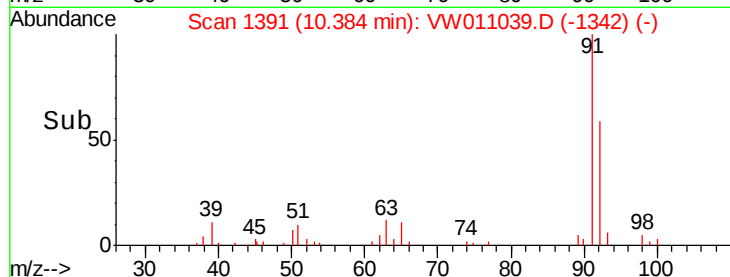
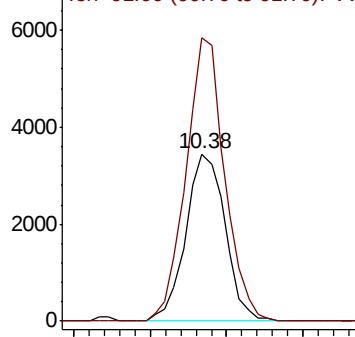
92 100

91 165.9 136.9 205.3



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW



#62

4-Bromofluorobenzene

Concen: 44.158 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.01 min

Lab File: VW011039.D

Acq: 28 Jun 2019 02:15

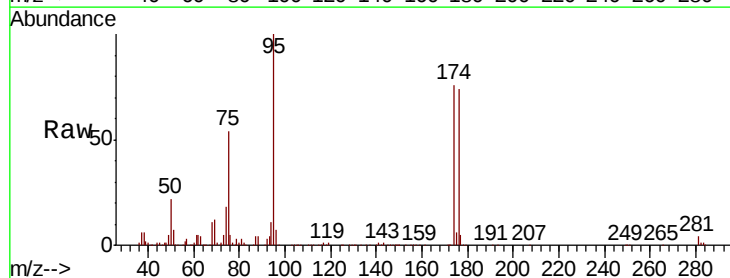
Tgt Ion: 95 Resp: 125162

Ion Ratio Lower Upper

95 100

174 74.8 0.0 149.2

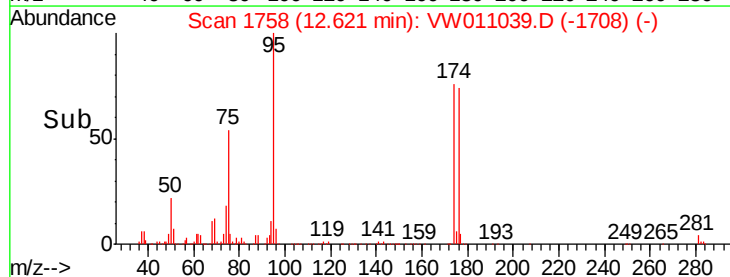
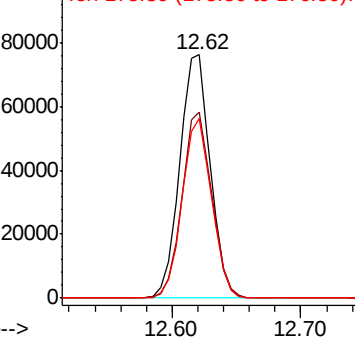
176 71.7 0.0 143.6

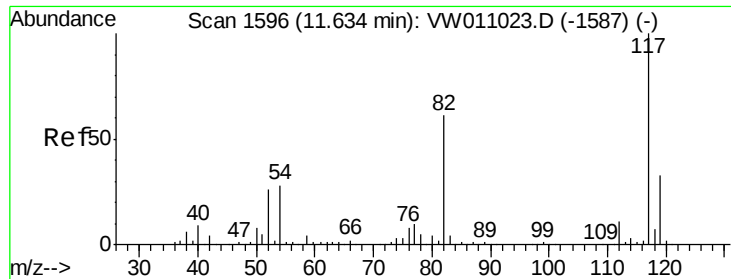


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1595

Delta R.T. -0.01 min

Lab File: VW011039.D

Acq: 28 Jun 2019 02:15

Instrument :

MSVOA_W

ClientSampleId :

CL-02-062619-A

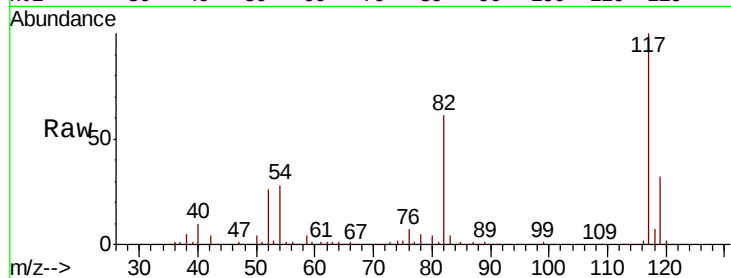
Tot Ion:117 Resp: 261426

Ion Ratio Lower Upper

117 100

82 60.9 48.6 73.0

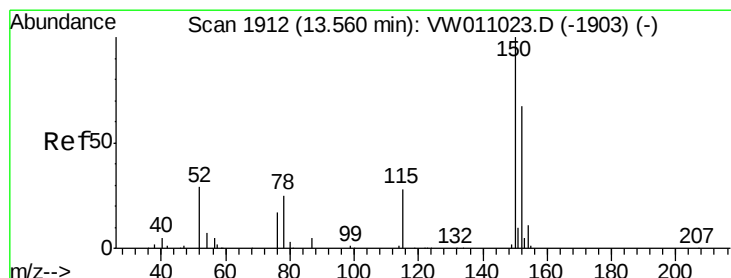
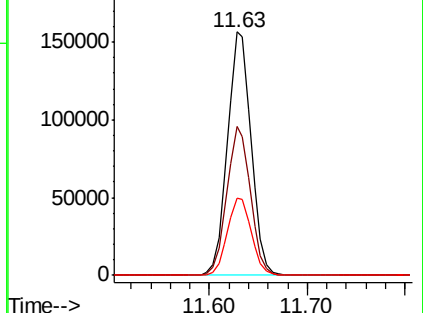
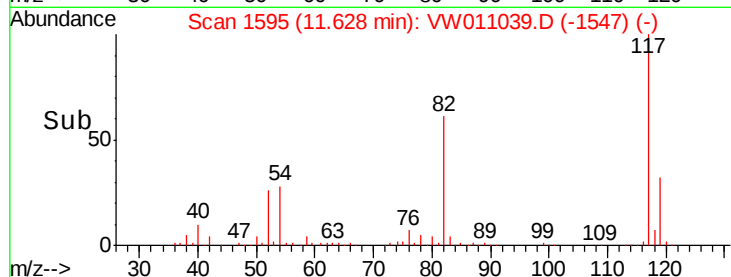
119 31.6 26.1 39.1



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW011039.D

Acq: 28 Jun 2019 02:15

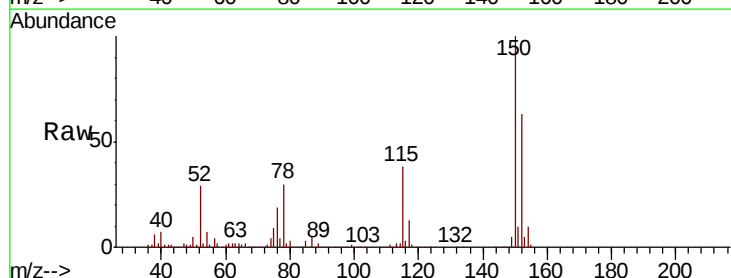
Tgt Ion:152 Resp: 110705

Ion Ratio Lower Upper

152 100

115 60.5 30.7 92.1

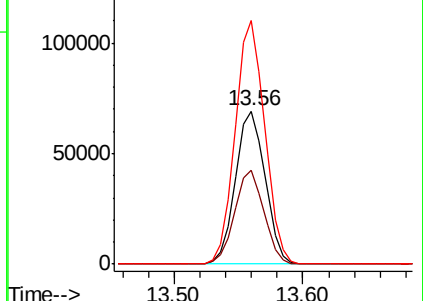
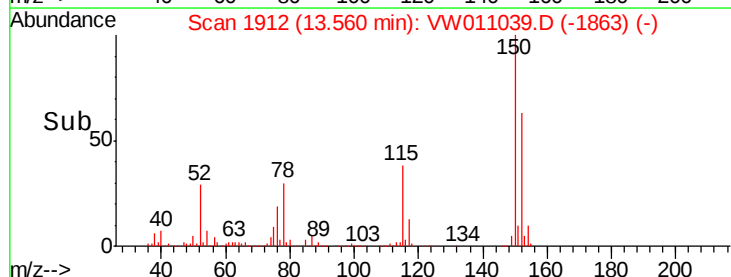
150 158.5 0.0 341.8

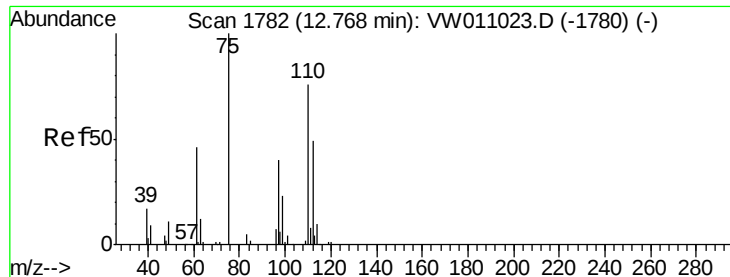


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

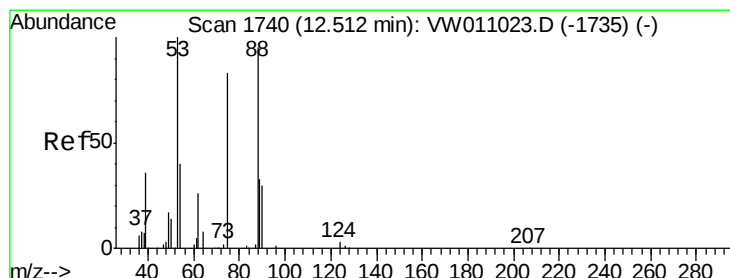
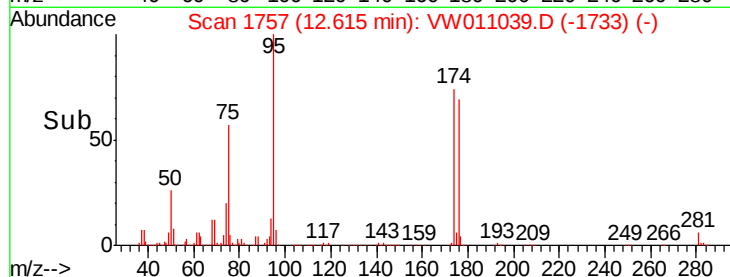
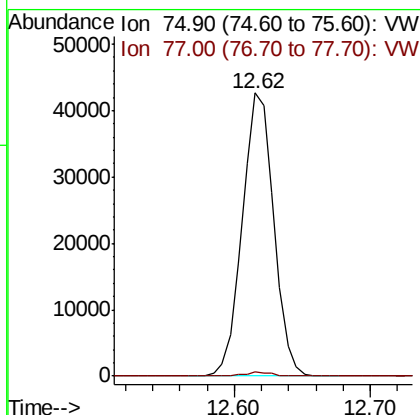
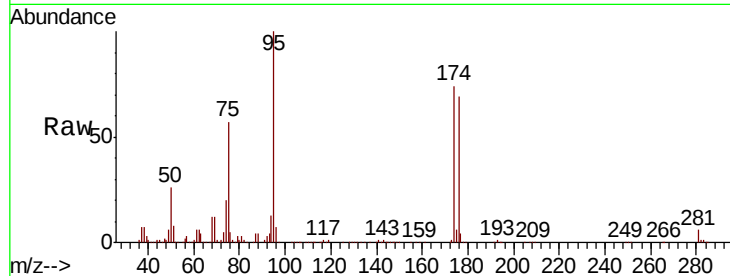




#76
 1,2,3-Trichloropropane
 Concen: 58.977 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW011039.D
 Acq: 28 Jun 2019 02:15

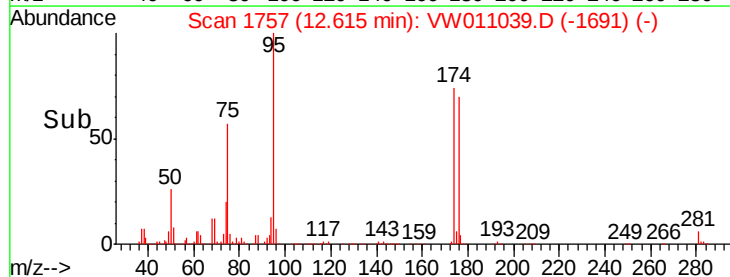
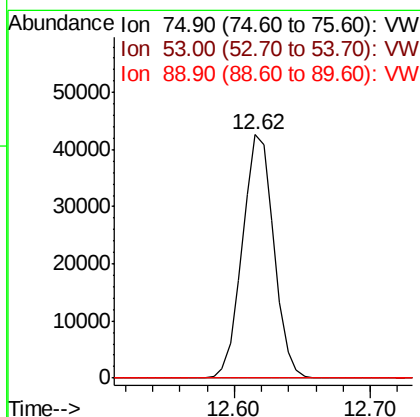
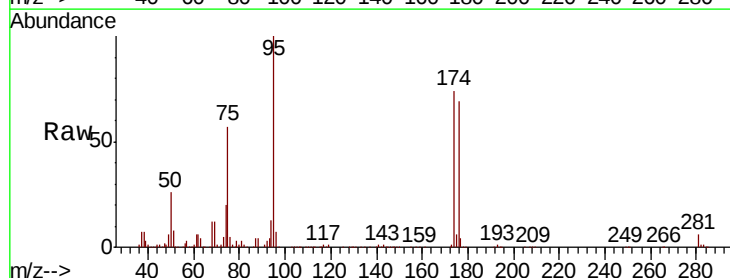
Instrument :
 MSVOA_W
 ClientSampleId :
 CL-02-062619-A

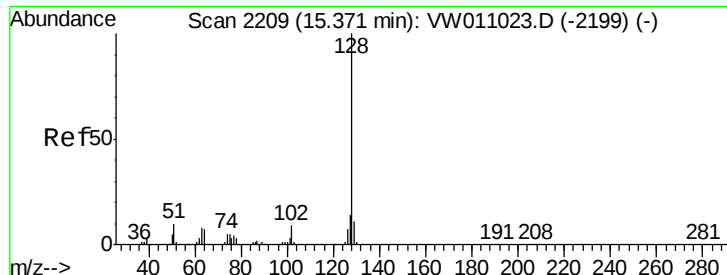
Tot Ion: 75 Resp: 68930
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 119.294 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.10 min
 Lab File: VW011039.D
 Acq: 28 Jun 2019 02:15

Tgt Ion: 75 Resp: 68930
 Ion Ratio Lower Upper
 75 100
 53 0.1 95.6 143.4#
 89 0.0 34.4 51.6#





#95

Naphthalene

Concen: 5.421 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW011039.D

Acq: 28 Jun 2019 02:15

Instrument :

MSVOA_W

ClientSampleId :

CL-02-062619-A

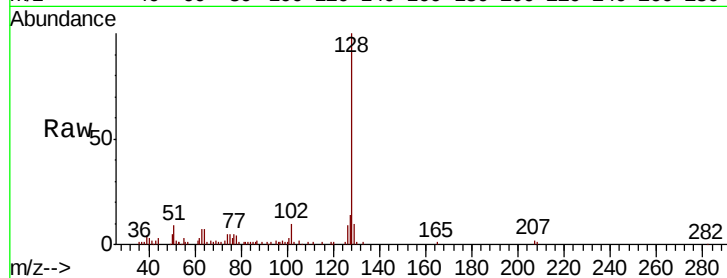
Tot Ion:128 Resp: 23203

Ion Ratio Lower Upper

128 100

127 14.1 10.7 16.1

129 12.3 8.8 13.2



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

