

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW051520\
 Data File : VW015441.D
 Acq On : 15 May 2020 18:25
 Operator : SY/VA
 Sample : L2679-08
 Misc : 5.94G/5ML/MSVOA W/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: May 16 02:56:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W050620S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 05 18:41:17 2020
 Response via : Initial Calibration

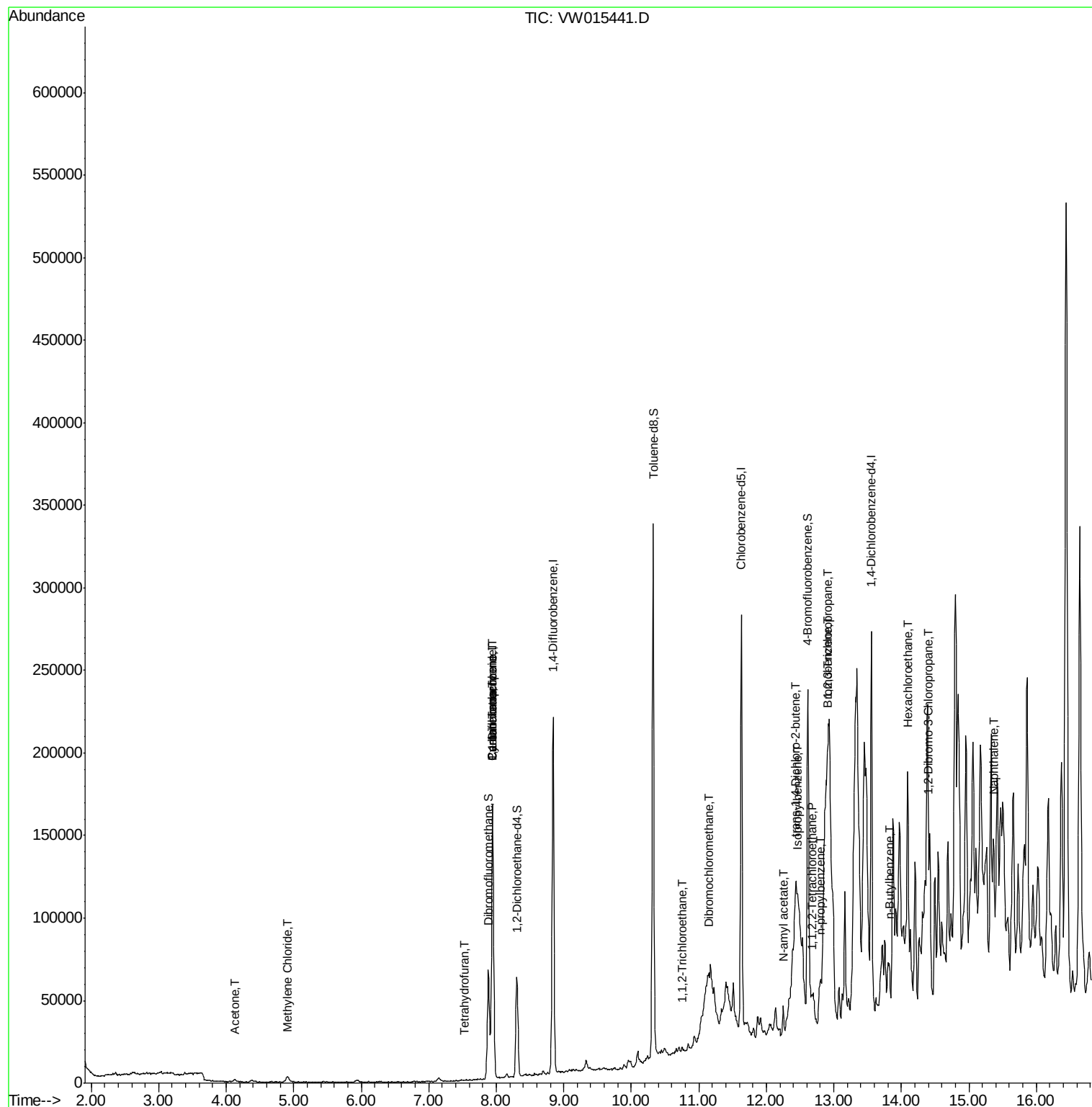
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	124319	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	177413	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	140199	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	61489	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	48949	35.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	71.64%	
35) Dibromofluoromethane	7.88	113	46786	45.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.90%	
50) Toluene-d8	10.32	98	209975	49.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.66%	
62) 4-Bromofluorobenzene	12.62	95	67660	43.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.96%	
Target Compounds						
					Qvalue	
16) Acetone	4.13	43	3075	14.484	ug/l #	85
20) Methylene Chloride	4.91	84	2431	1.755	ug/l	92
29) Tetrahydrofuran	7.53	42	230	1.056	ug/l #	34
31) Cyclohexane	7.95	56	3224	1.287	ug/l #	6
36) 1,1-Dichloropropene	7.95	75	9689	5.559	ug/l #	52
38) Carbon Tetrachloride	7.95	117	12246	7.515	ug/l #	17
55) 1,1,2-Trichloroethane	10.76	97	1232	1.492	ug/l #	23
60) Dibromochloromethane	11.15	129	14249	14.344	ug/l #	10
73) Isopropylbenzene	12.47	105	8321	1.813	ug/l	90
74) N-amyl acetate	12.25	43	4130	3.806	ug/l #	59
75) 1,1,2,2-Tetrachloroethane	12.68	83	2504	3.487	ug/l #	16
76) 1,2,3-Trichloropropane	12.91	75	6258	12.372	ug/l #	100
77) Bromobenzene	12.90	156	155217	159.551	ug/l #	1
78) n-propylbenzene	12.80	91	15315	2.781	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.43	75	3757	14.691	ug/l #	10
89) n-Butylbenzene	13.82	91	17134	4.128	ug/l #	83
90) Hexachloroethane	14.10	117	6084	7.787	ug/l #	14
92) 1,2-Dibromo-3-Chloropropan	14.41	75	359	2.864	ug/l	79
95) Naphthalene	15.36	128	65329	32.342	ug/l	98

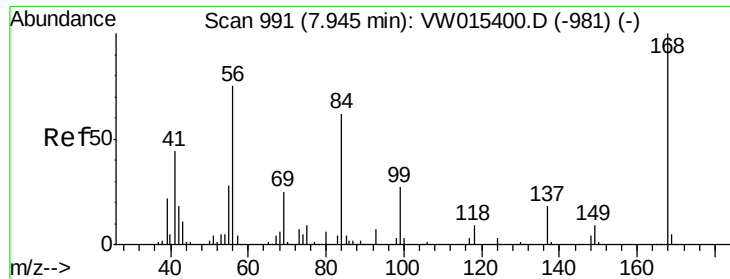
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue May 05 18:41:17 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW015441.D

Acq: 15 May 2020 18:25

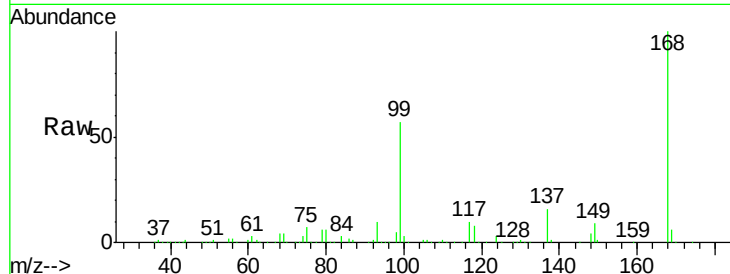
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:168 Resp: 124319

Ion Ratio Lower Upper

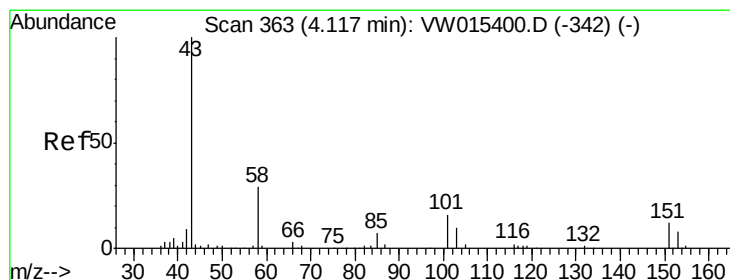
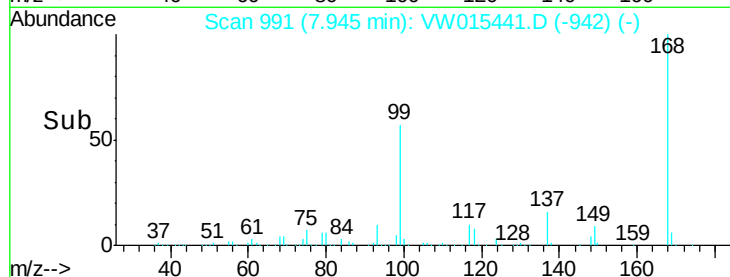
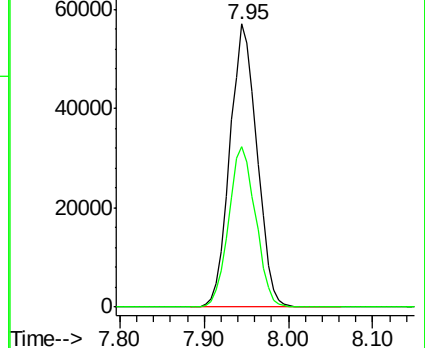
168 100

99 56.6 50.3 75.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#16

Acetone

Concen: 14.484 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW015441.D

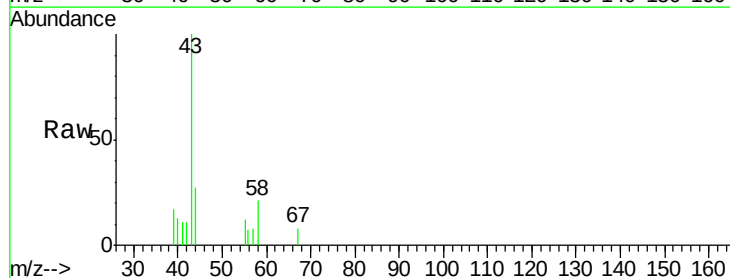
Acq: 15 May 2020 18:25

Tgt Ion: 43 Resp: 3075

Ion Ratio Lower Upper

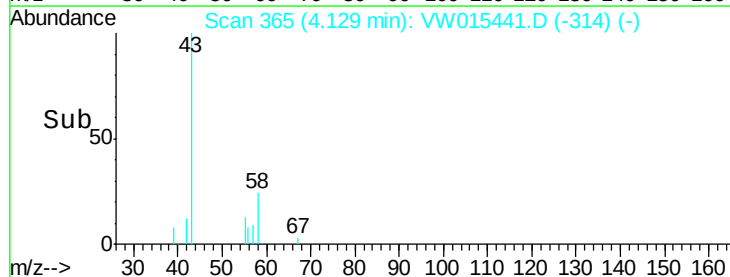
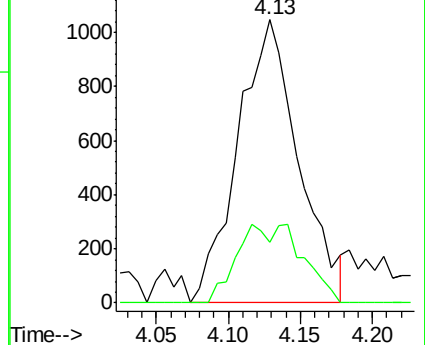
43 100

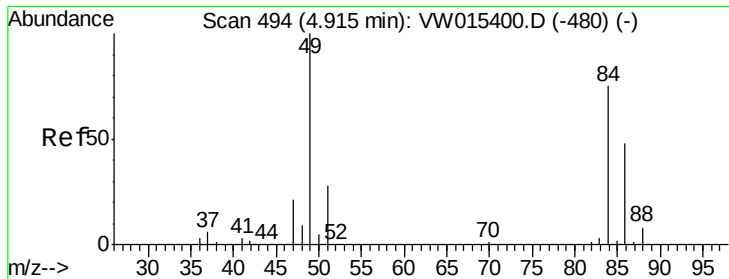
58 21.4 23.4 35.0#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

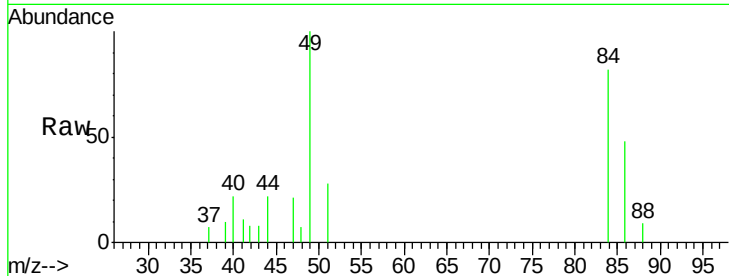




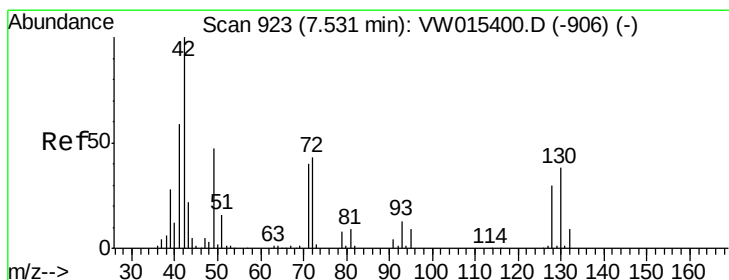
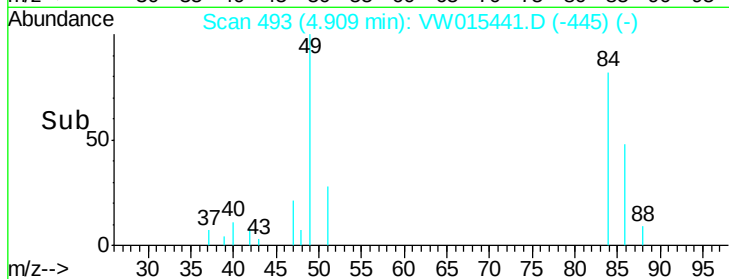
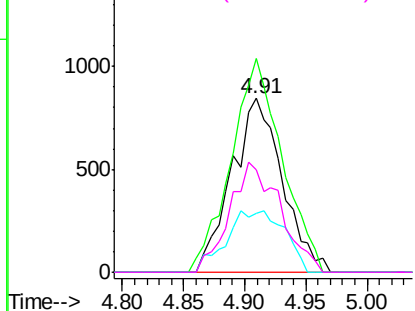
#20
Methylene Chloride
Concen: 1.755 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW015441.D
Acq: 15 May 2020 18:25

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:	84	Resp:	2431
Ion	Ratio	Lower	Upper
84	100		
49	122.7	106.4	159.6
51	33.9	30.2	45.2
86	58.9	51.6	77.4

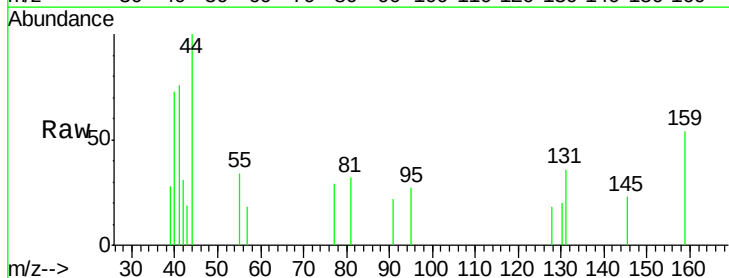


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

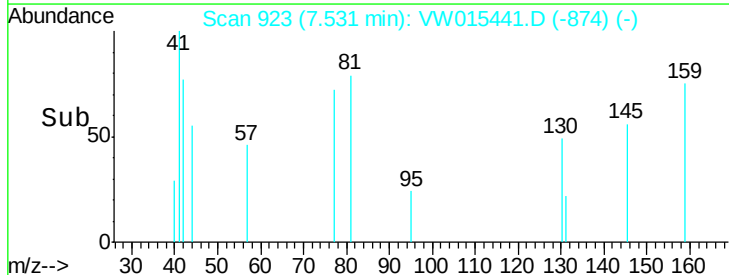
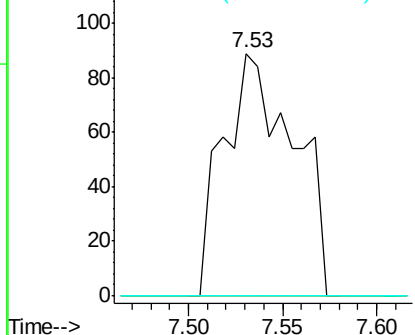


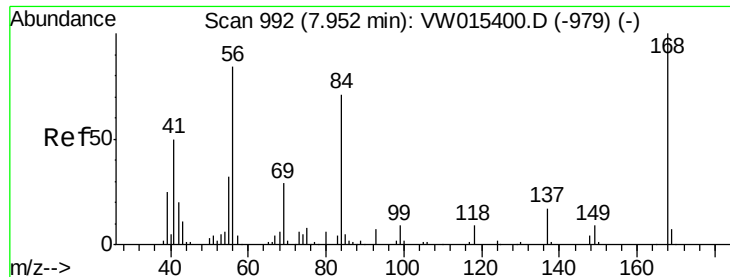
#29
Tetrahydrofuran
Concen: 1.056 ug/l
RT: 7.53 min Scan# 923
Delta R.T. -0.00 min
Lab File: VW015441.D
Acq: 15 May 2020 18:25

Tgt Ion:	42	Resp:	230
Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.6	50.4#
71	0.0	32.1	48.1#



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

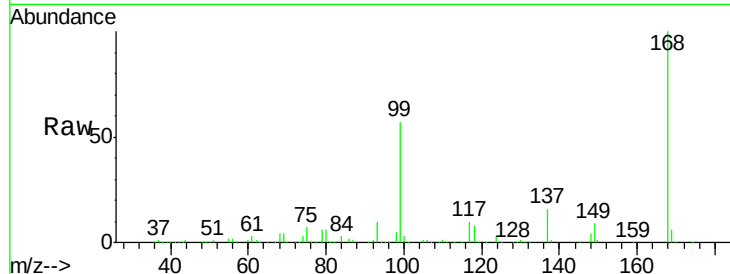




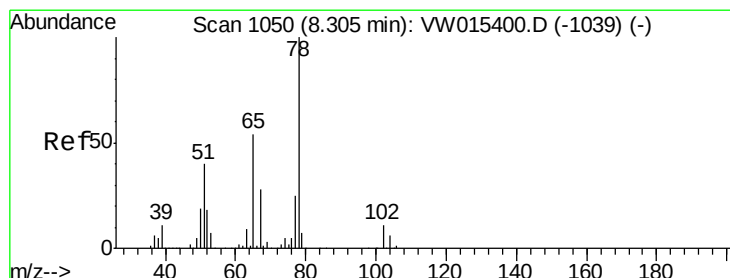
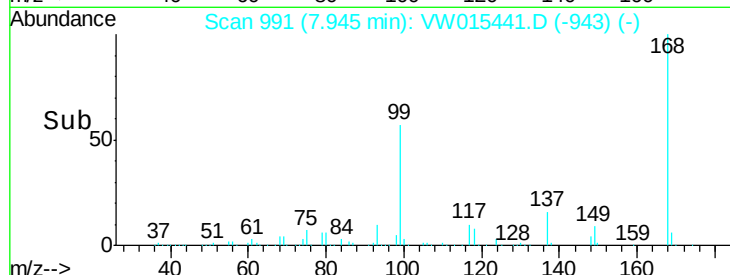
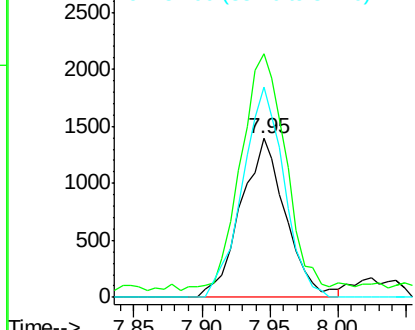
#31
Cyclohexane
Concen: 1.287 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW015441.D
Acq: 15 May 2020 18:25

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 56 Resp: 3224
Ion Ratio Lower Upper
56 100
69 146.0 27.2 40.8#
84 132.4 67.7 101.5#

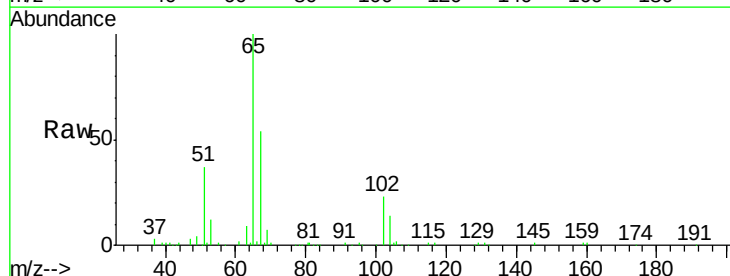


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

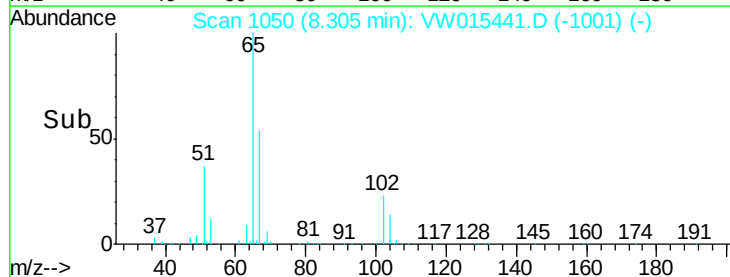
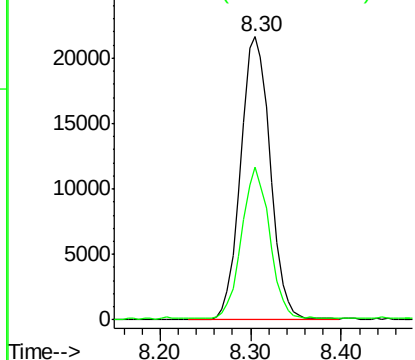


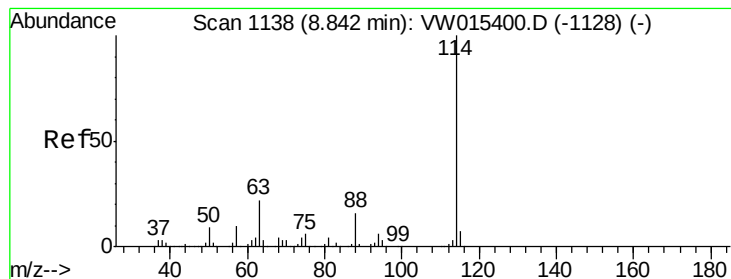
#33
1,2-Dichloroethane-d4
Concen: 35.818 ug/l
RT: 8.30 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VW015441.D
Acq: 15 May 2020 18:25

Tgt Ion: 65 Resp: 48949
Ion Ratio Lower Upper
65 100
67 50.0 0.0 102.8



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: VW015441.D

Acq: 15 May 2020 18:25

Instrument :

MSVOA_W

ClientSampleId :

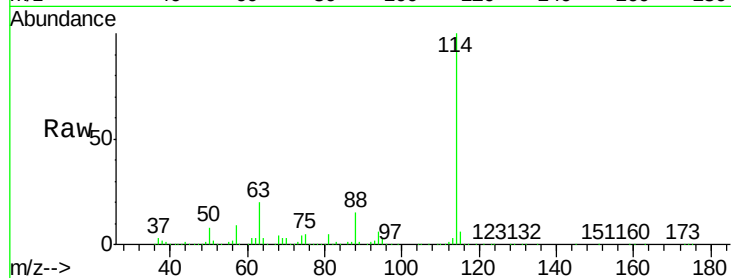
Tot Ion:114 Resp: 177413

Ion Ratio Lower Upper

114 100

63 20.3 0.0 43.4

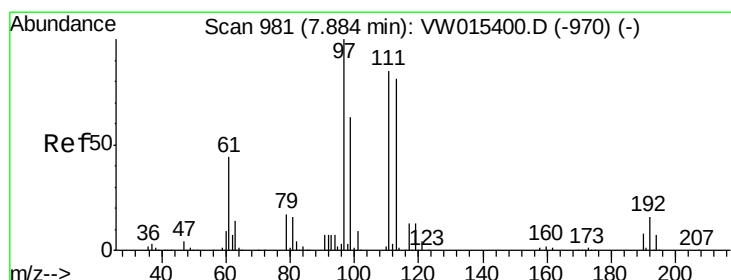
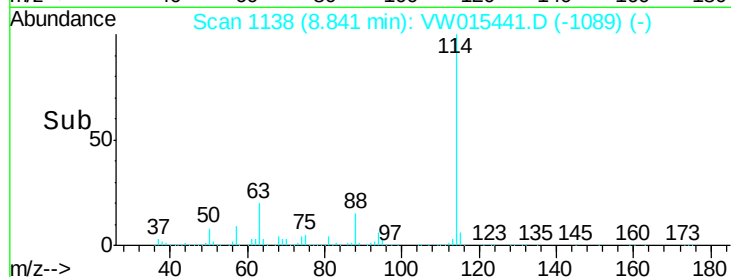
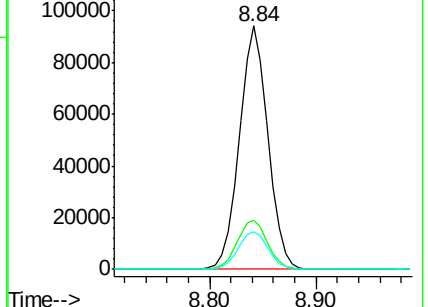
88 15.3 0.0 31.8



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: 45.946 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW015441.D

Acq: 15 May 2020 18:25

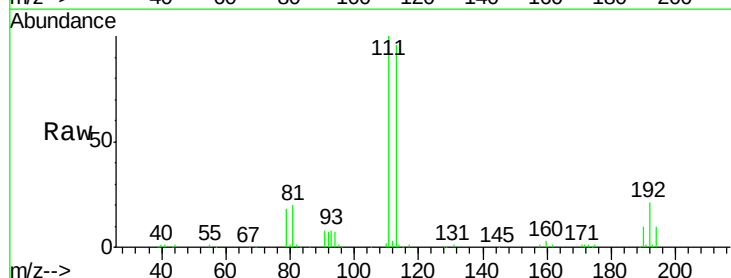
Tgt Ion:113 Resp: 46786

Ion Ratio Lower Upper

113 100

111 105.3 82.9 124.3

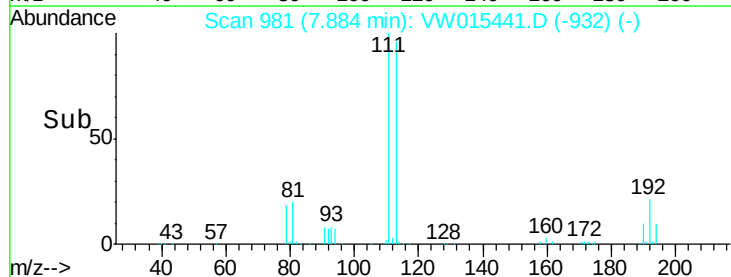
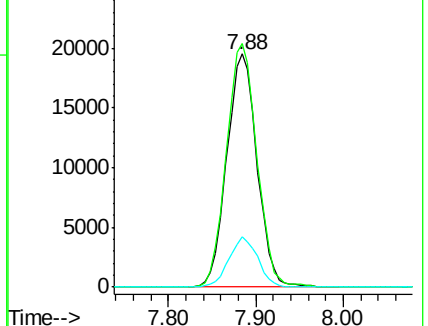
192 20.4 15.4 23.0

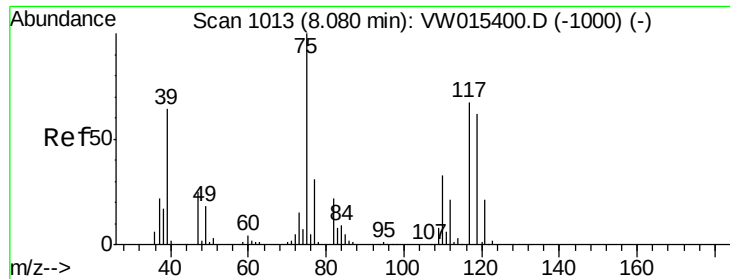


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

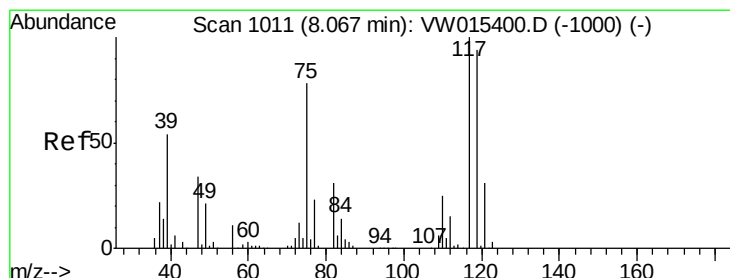
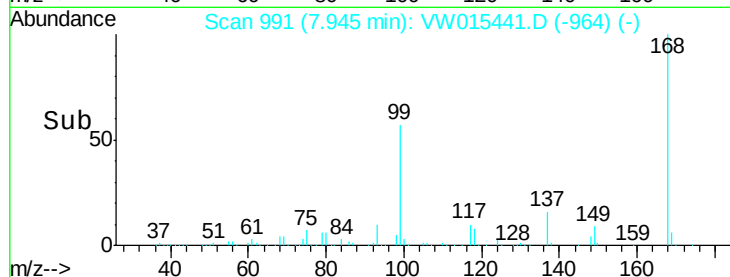
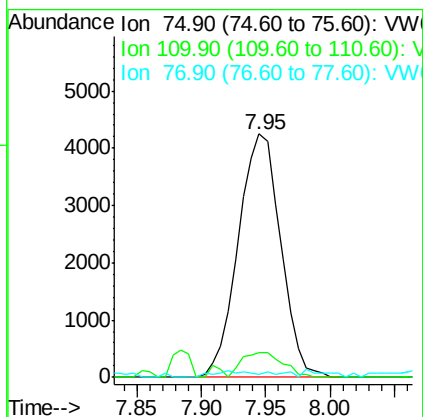
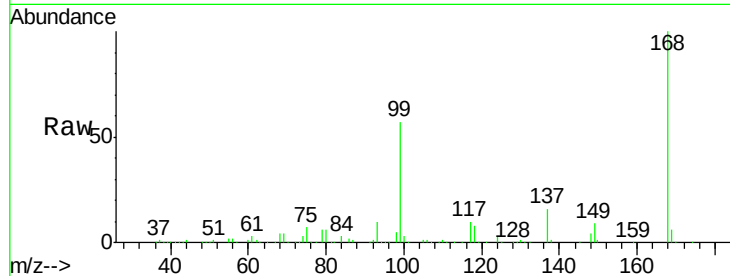




#36
 1,1-Dichloropropene
 Concen: 5.559 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW015441.D
 Acq: 15 May 2020 18:25

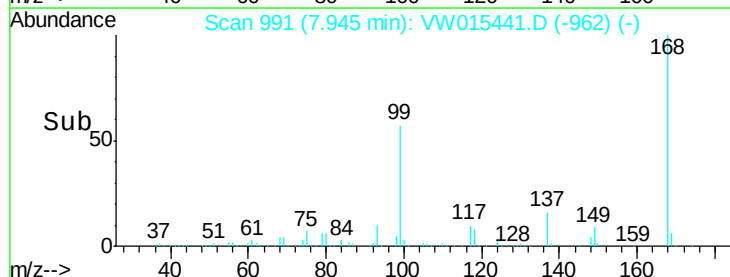
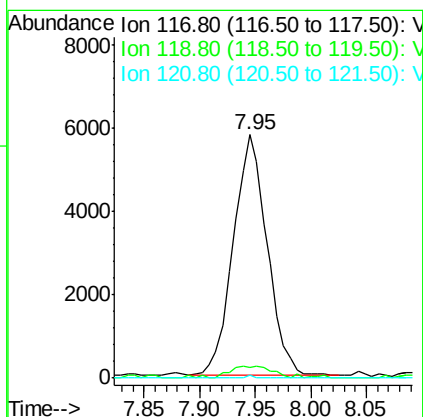
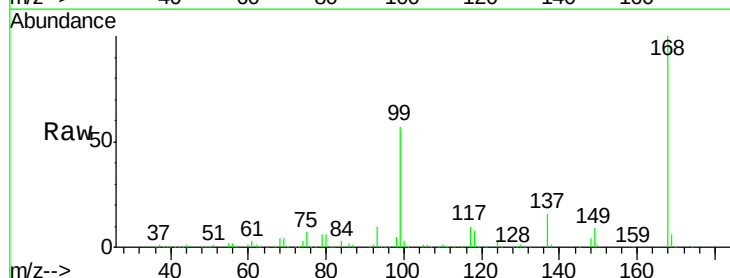
Instrument :
 MSVOA_W
 ClientSampleID :

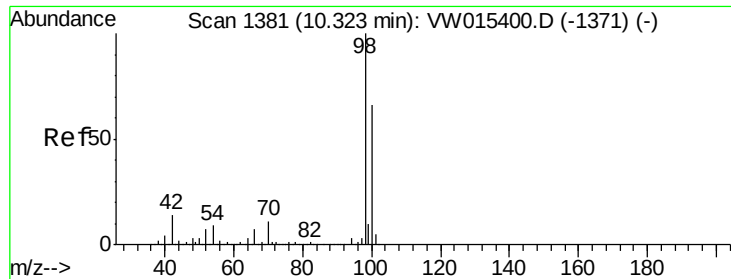
Tot Ion: 75 Resp: 9689
 Ion Ratio Lower Upper
 75 100
 110 10.0 16.6 49.8#
 77 0.0 24.5 36.7#



#38
 Carbon Tetrachloride
 Concen: 7.515 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW015441.D
 Acq: 15 May 2020 18:25

Tgt Ion: 117 Resp: 12246
 Ion Ratio Lower Upper
 117 100
 119 4.6 75.4 113.0#
 121 1.3 24.8 37.2#





#50

Toluene-d8

Concen: 49.828 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW015441.D

Acq: 15 May 2020 18:25

Instrument :

MSVOA_W

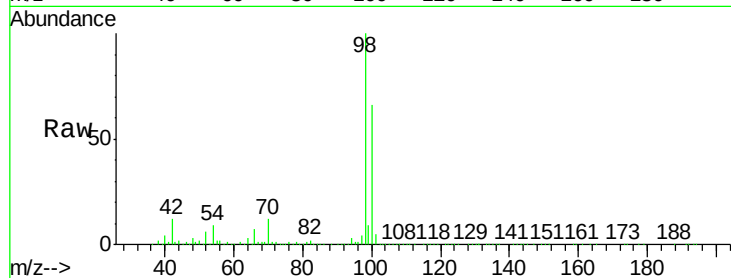
ClientSampled :

Tot Ion: 98 Resp: 209975

Ion Ratio Lower Upper

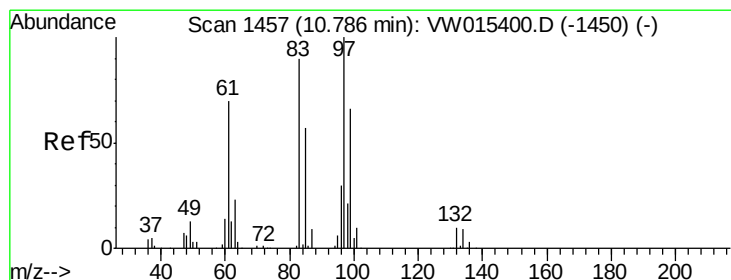
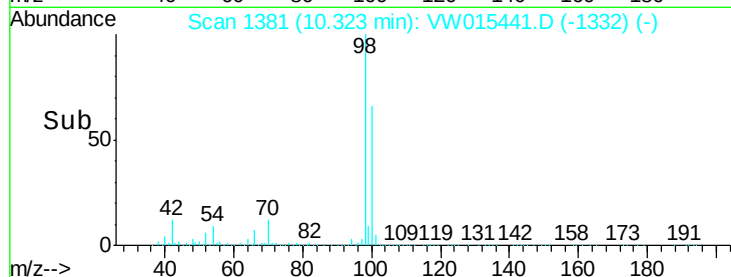
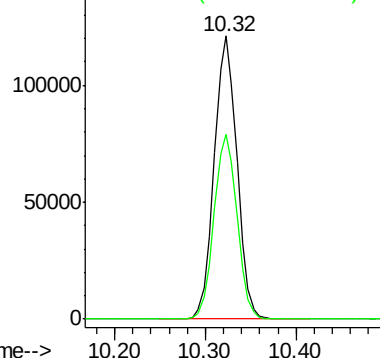
98 100

100 65.9 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#55

1,1,2-Trichloroethane

Concen: 1.492 ug/l

RT: 10.76 min Scan# 1452

Delta R.T. -0.03 min

Lab File: VW015441.D

Acq: 15 May 2020 18:25

Tgt Ion: 97 Resp: 1232

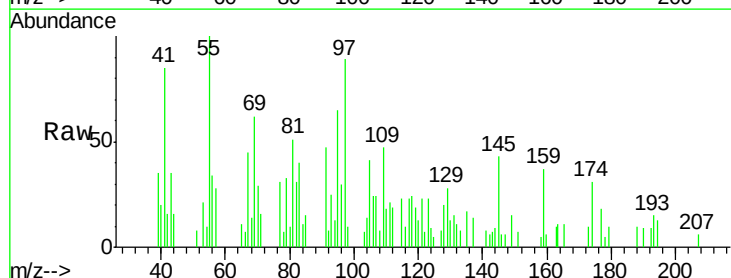
Ion Ratio Lower Upper

97 100

83 13.7 72.2 108.4#

85 10.6 45.2 67.8#

99 0.0 52.6 78.8#

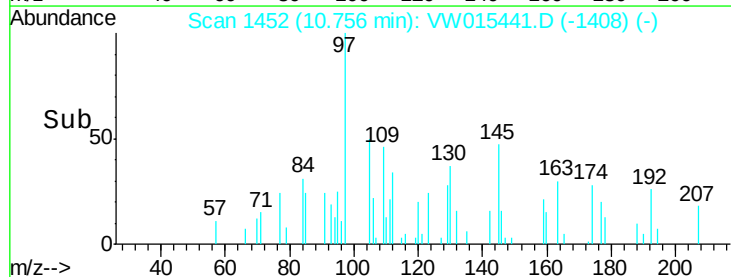
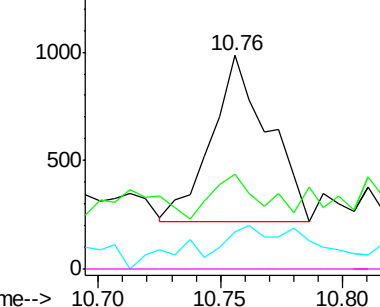


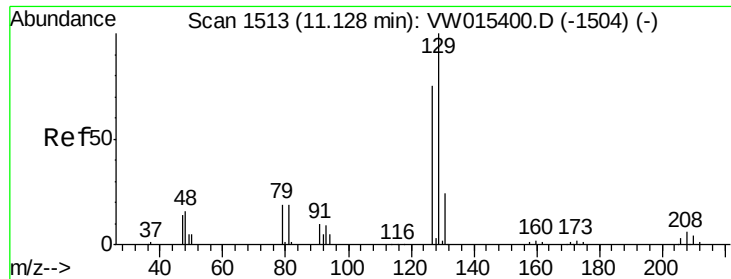
Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW





#60

Dibromochloromethane

Concen: 14.344 ug/l

RT: 11.15 min Scan# 1517

Delta R.T. 0.02 min

Lab File: VW015441.D

Acq: 15 May 2020 18:25

Instrument :

MSVOA_W

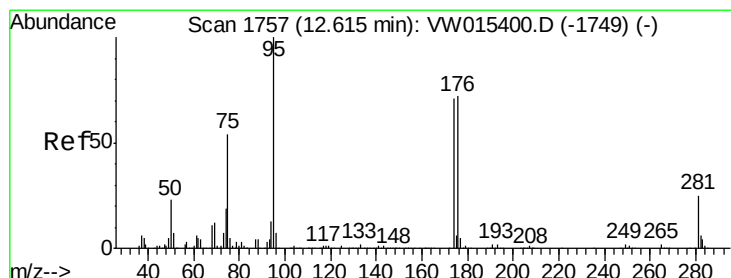
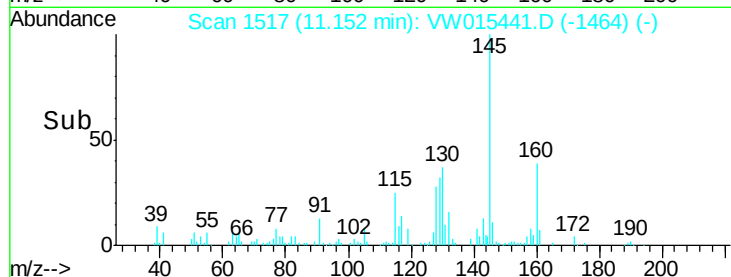
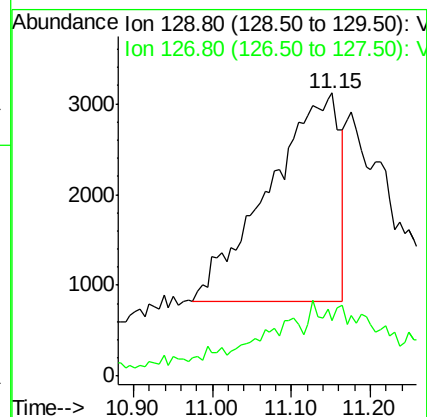
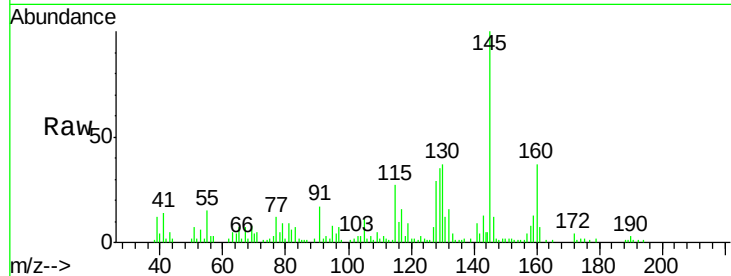
ClientSampleId :

Tot Ion:129 Resp: 14249

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.2#



#62

4-Bromofluorobenzene

Concen: 43.482 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW015441.D

Acq: 15 May 2020 18:25

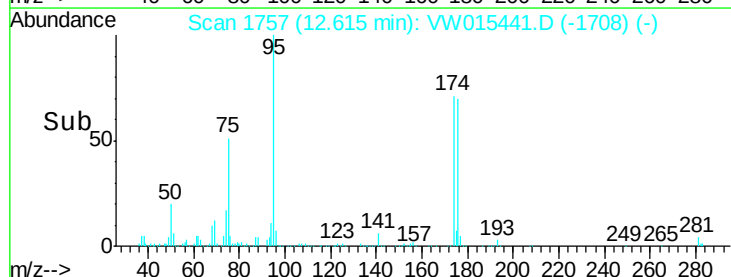
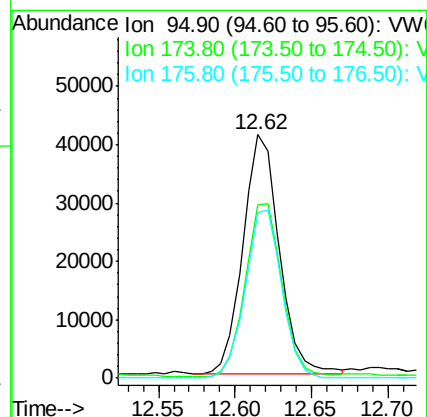
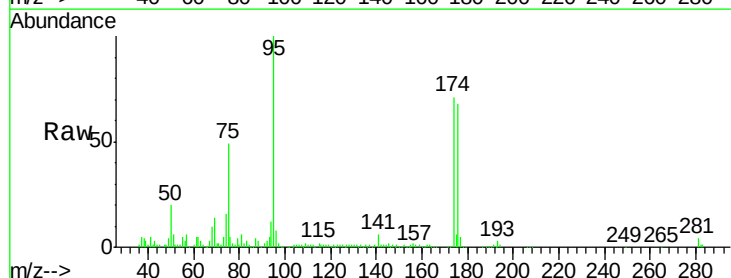
Tgt Ion: 95 Resp: 67660

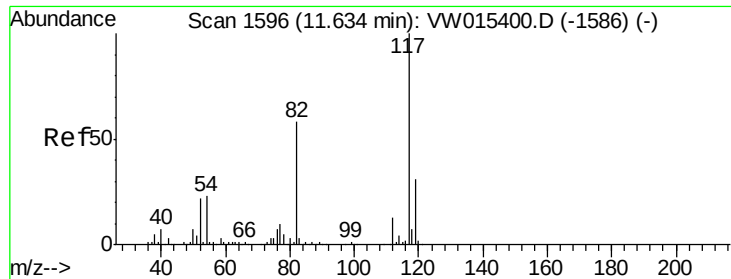
Ion Ratio Lower Upper

95 100

174 73.0 0.0 147.6

176 70.5 0.0 144.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW015441.D

Acq: 15 May 2020 18:25

Instrument :

MSVOA_W

ClientSampled :

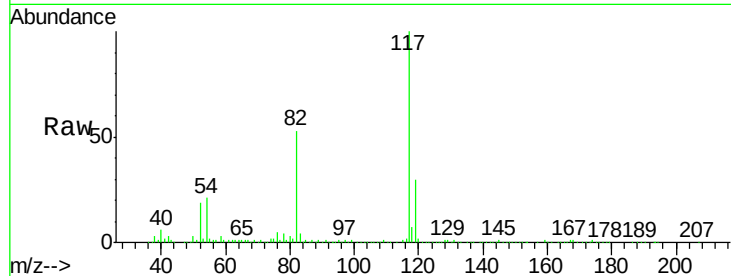
Tot Ion:117 Resp: 140199

Ion Ratio Lower Upper

117 100

82 53.0 46.4 69.6

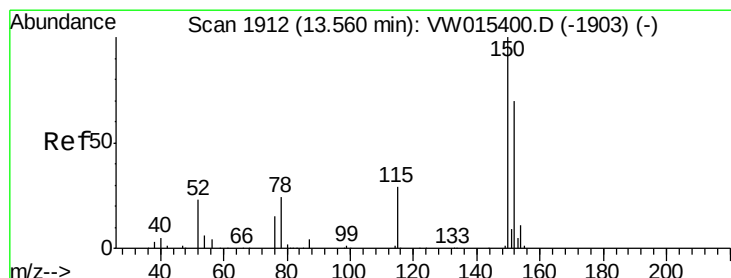
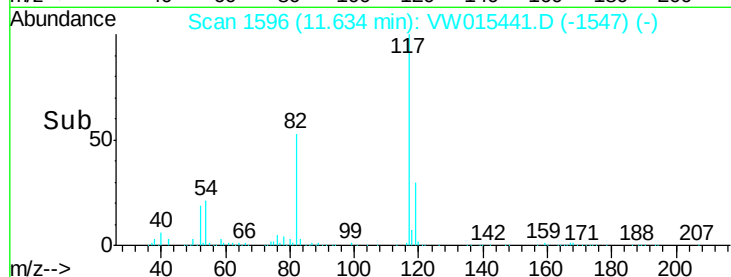
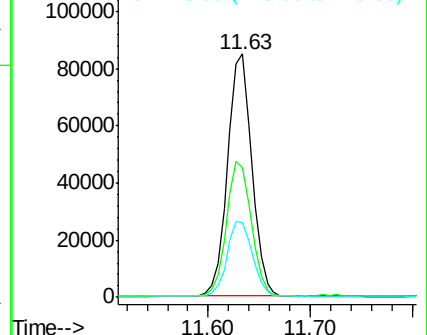
119 30.3 24.6 37.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

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: VW015441.D

Acq: 15 May 2020 18:25

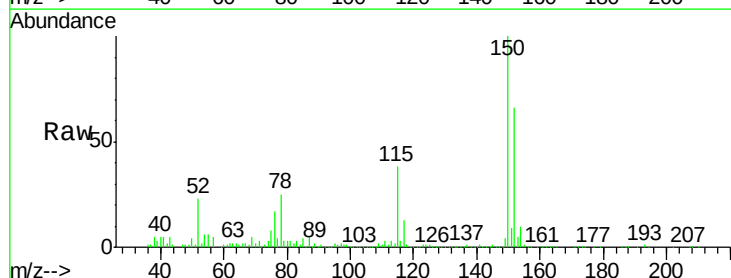
Tgt Ion:152 Resp: 61489

Ion Ratio Lower Upper

152 100

115 58.4 30.3 90.8

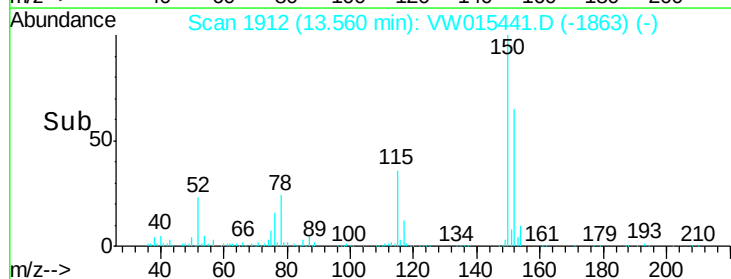
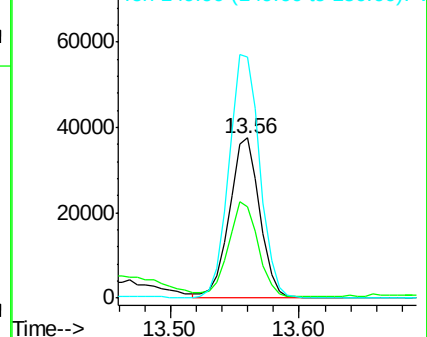
150 154.9 0.0 344.4

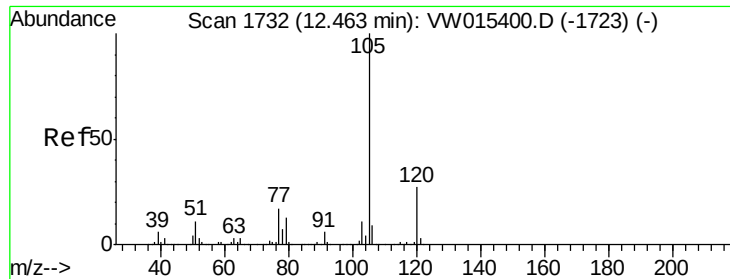


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 1.813 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW015441.D

Acq: 15 May 2020 18:25

Instrument :

MSVOA_W

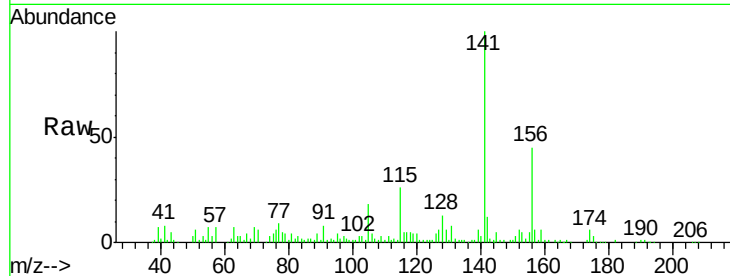
ClientSampleId :

Tot Ion:105 Resp: 8321

Ion Ratio Lower Upper

105 100

120 20.8 13.1 39.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.47

4000

3000

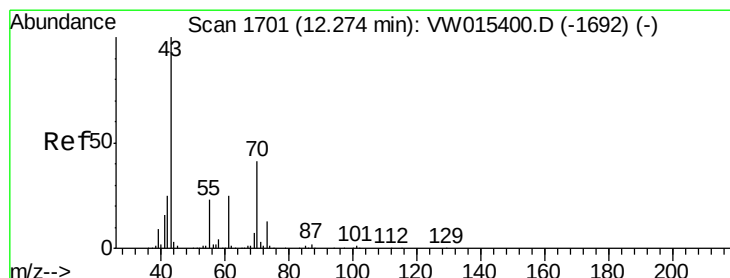
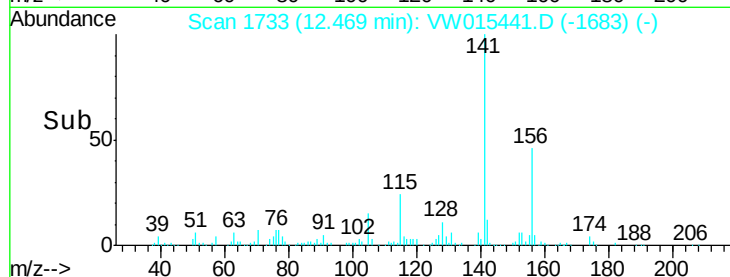
2000

1000

0

Time-->

12.40 12.50 12.60



#74

N-ethyl acetate

Concen: 3.806 ug/l

RT: 12.25 min Scan# 1697

Delta R.T. -0.02 min

Lab File: VW015441.D

Acq: 15 May 2020 18:25

Tgt Ion: 43 Resp: 4130

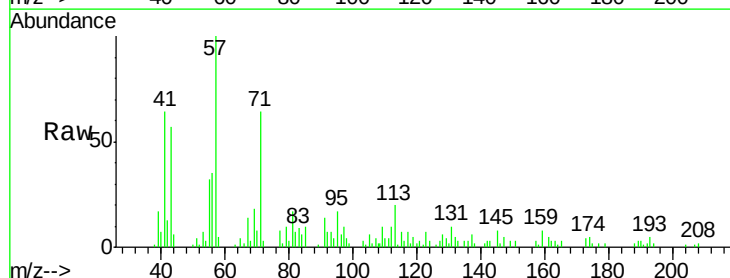
Ion Ratio Lower Upper

43 100

70 7.7 33.4 50.0#

55 18.9 18.9 28.3#

61 0.0 19.4 29.0#



Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 70.00 (69.70 to 70.70): VV

Ion 55.00 (54.70 to 55.70): VV

Ion 61.00 (60.70 to 61.70): VV

4000

3000

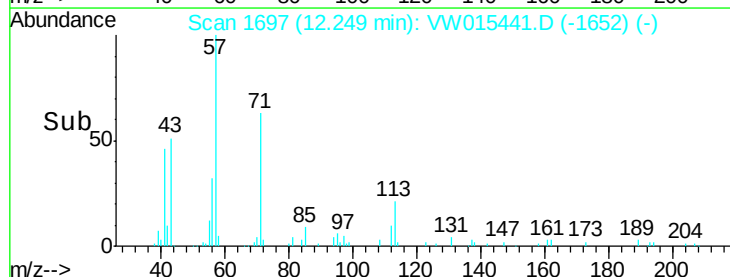
2000

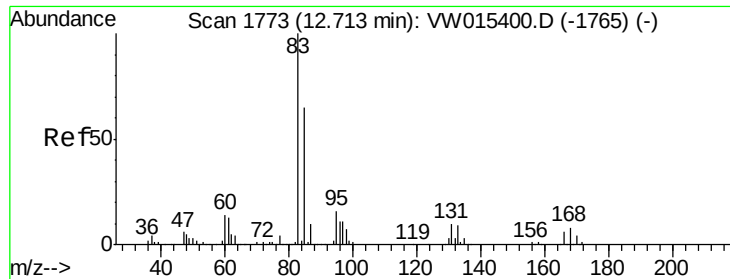
1000

0

Time-->

12.20 12.25 12.30





#75

1,1,2,2-Tetrachloroethane

Concen: 3.487 ug/l

RT: 12.68 min Scan# 1768

Delta R.T. -0.03 min

Lab File: VW015441.D

Acq: 15 May 2020 18:25

Instrument :

MSVOA_W

ClientSampleId :

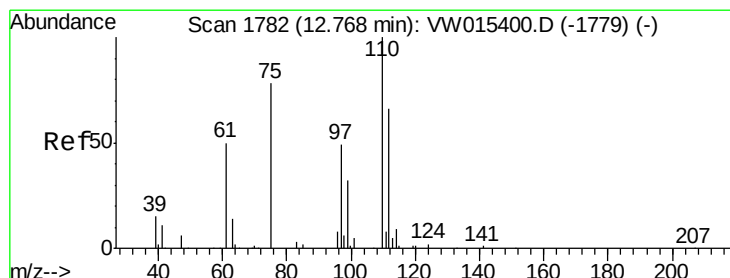
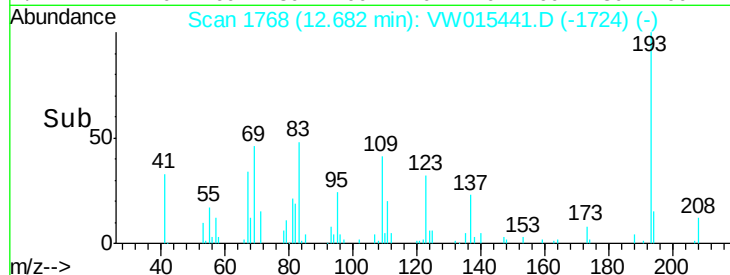
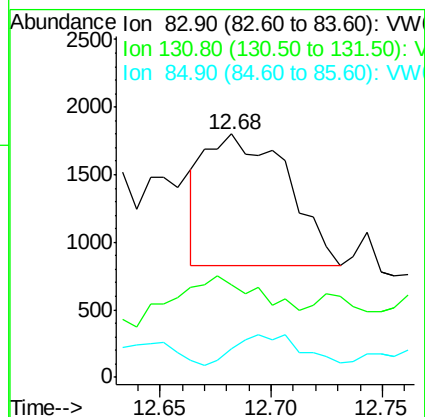
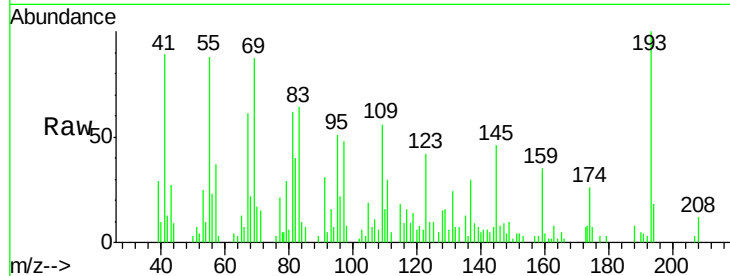
Tot Ion: 83 Resp: 2504

Ion Ratio Lower Upper

83 100

131 45.4 5.1 15.2#

85 0.0 32.2 96.6#



#76

1,2,3-Trichloropropane

Concen: 12.372 ug/l

RT: 12.91 min Scan# 1805

Delta R.T. 0.14 min

Lab File: VW015441.D

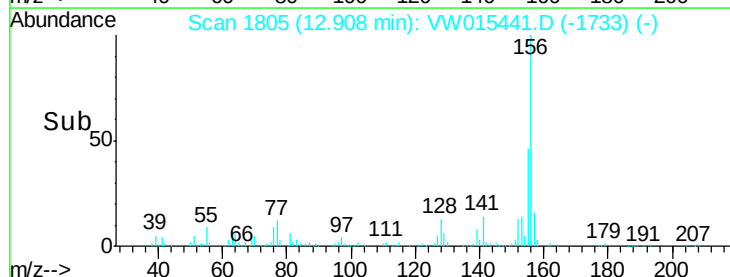
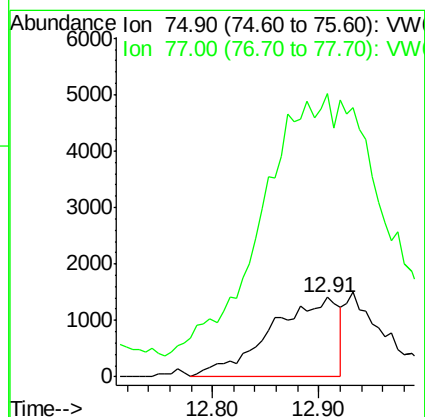
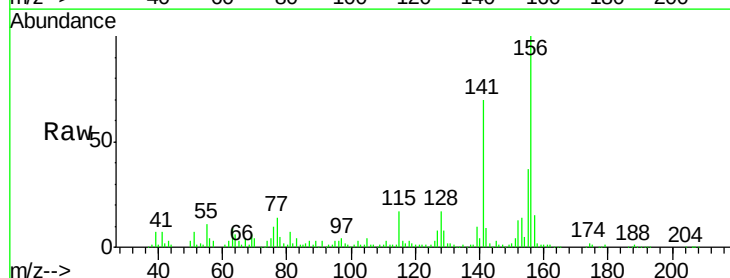
Acq: 15 May 2020 18:25

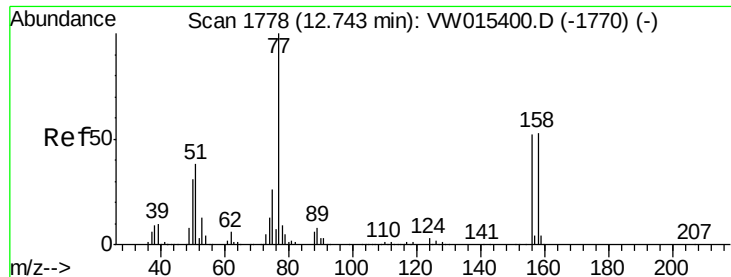
Tgt Ion: 75 Resp: 6258

Ion Ratio Lower Upper

75 100

77 263.4 0.0 0.0#





#77

Bromobenzene

Concen: 159.551 ug/l

RT: 12.90 min Scan# 1804

Delta R.T. 0.16 min

Lab File: VW015441.D

Acq: 15 May 2020 18:25

Instrument :

MSVOA_W

ClientSampleId :

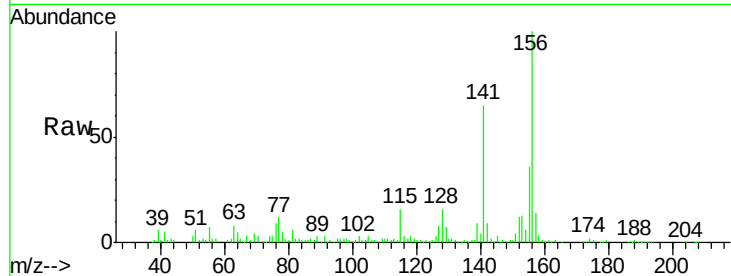
Tot Ion:156 Resp: 155217

Ion Ratio Lower Upper

156 100

77 10.6 101.8 305.6#

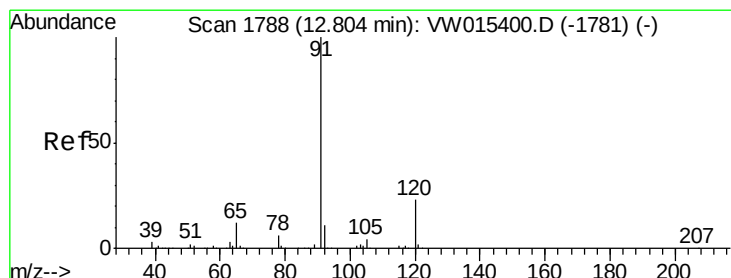
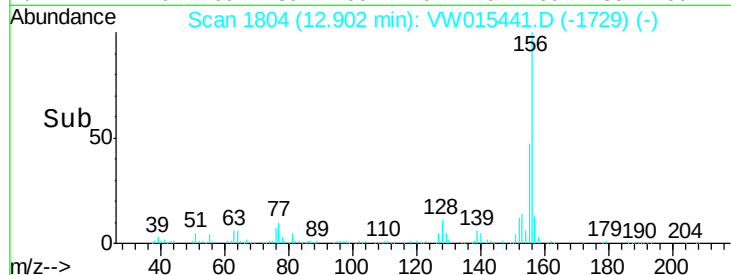
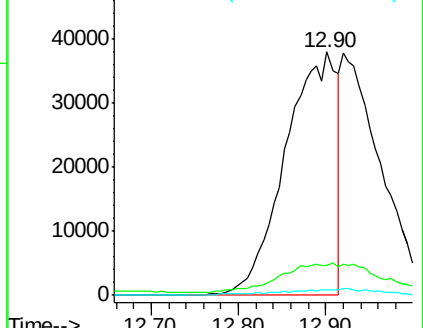
158 0.0 48.3 144.8#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 2.781 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW015441.D

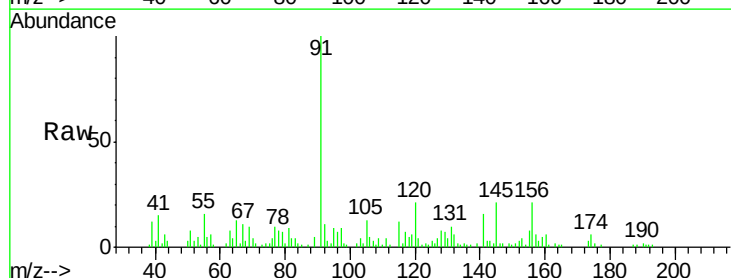
Acq: 15 May 2020 18:25

Tgt Ion: 91 Resp: 15315

Ion Ratio Lower Upper

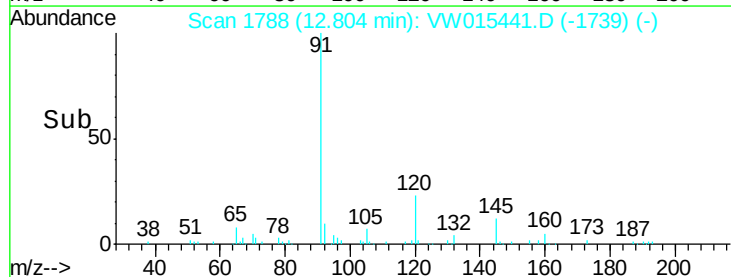
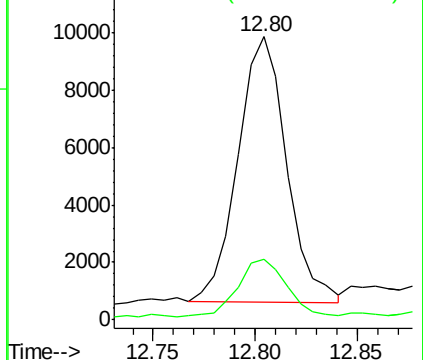
91 100

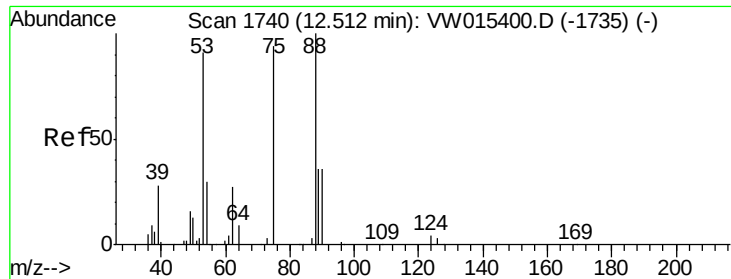
120 21.7 11.2 33.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 14.691 ug/l

RT: 12.43 min Scan# 1727

Delta R.T. -0.08 min

Lab File: VW015441.D

Acq: 15 May 2020 18:25

Instrument :

MSVOA_W

ClientSampleId :

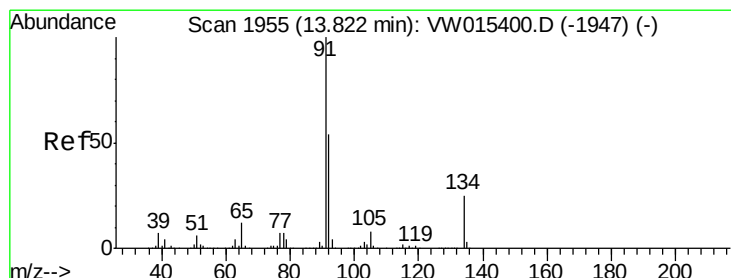
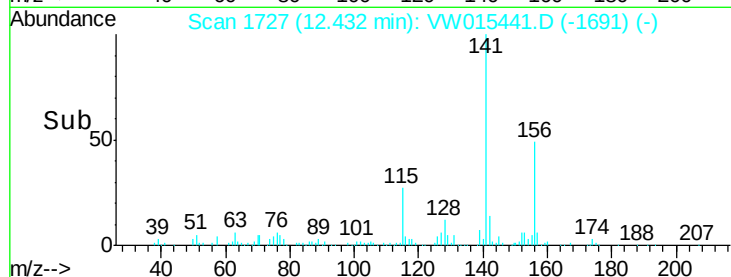
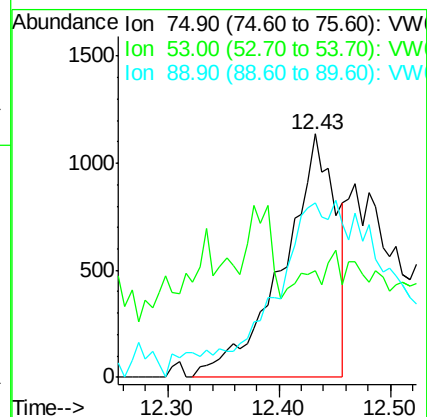
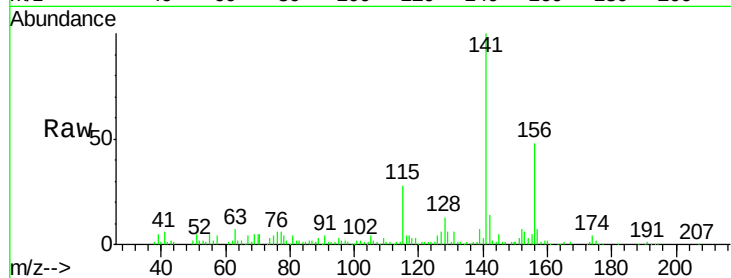
Tot Ion: 75 Resp: 3757

Ion Ratio Lower Upper

75 100

53 2.6 82.5 123.7#

89 0.0 35.8 53.8#



#89

n-Butylbenzene

Concen: 4.128 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. -0.00 min

Lab File: VW015441.D

Acq: 15 May 2020 18:25

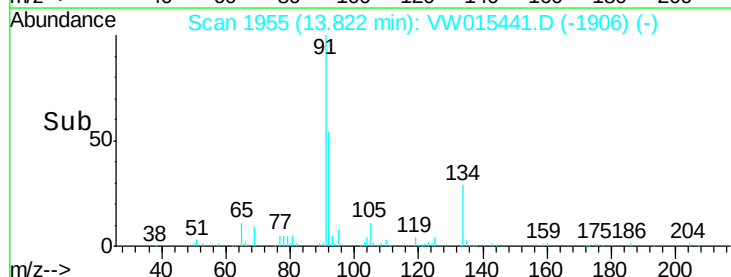
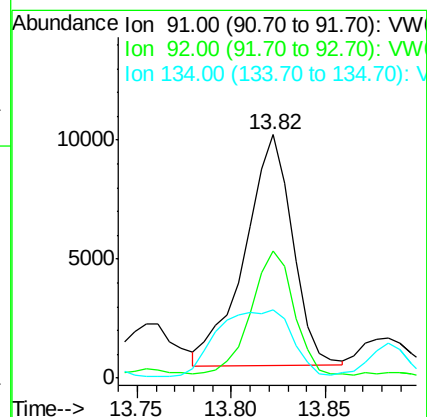
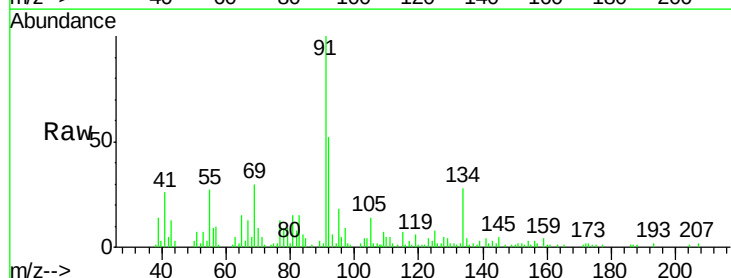
Tgt Ion: 91 Resp: 17134

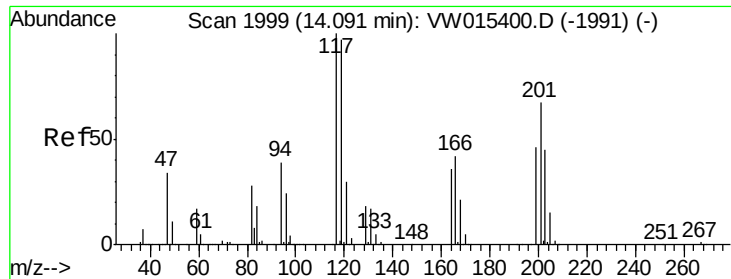
Ion Ratio Lower Upper

91 100

92 49.4 27.2 81.6

134 44.6 12.6 37.6#





#90

Hexachloroethane

Concen: 7.787 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. 0.01 min

Lab File: VW015441.D

Acq: 15 May 2020 18:25

Instrument :

MSVOA_W

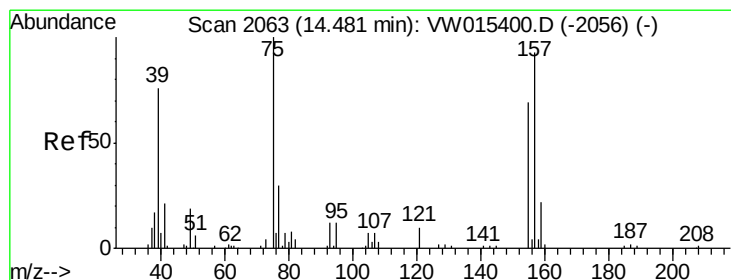
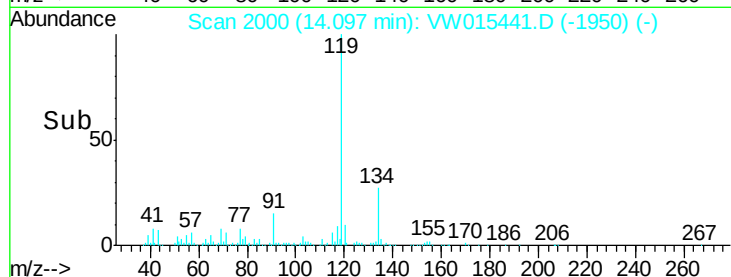
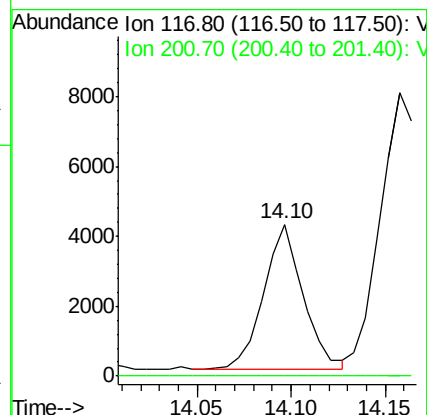
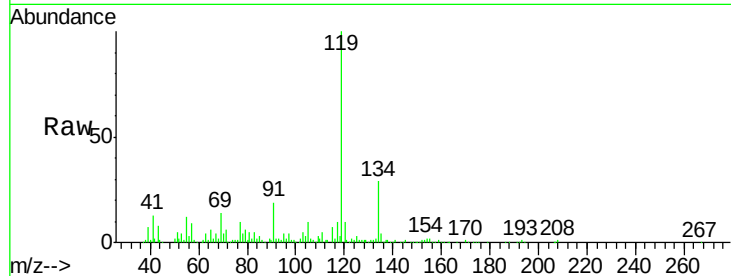
ClientSampleId :

Tot Ion:117 Resp: 6084

Ion Ratio Lower Upper

117 100

201 0.0 35.9 107.8#



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.864 ug/l

RT: 14.41 min Scan# 2051

Delta R.T. -0.07 min

Lab File: VW015441.D

Acq: 15 May 2020 18:25

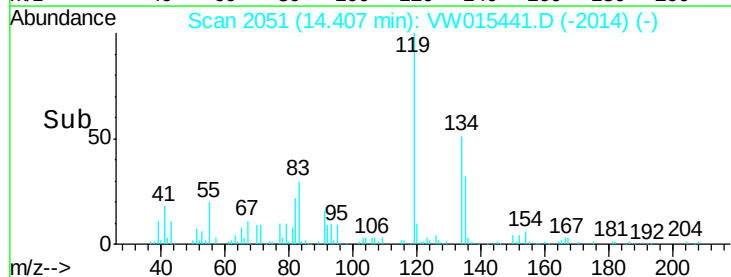
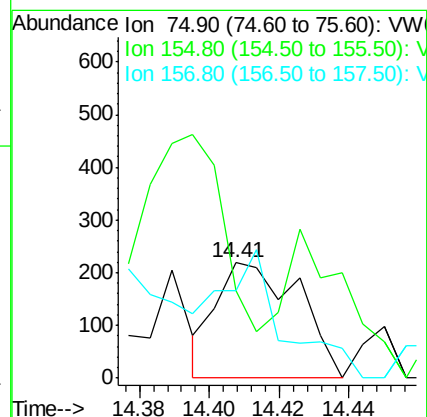
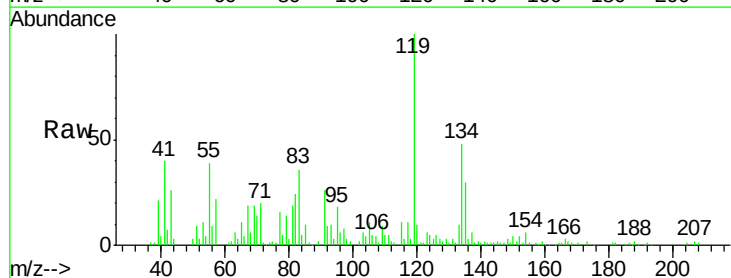
Tgt Ion: 75 Resp: 359

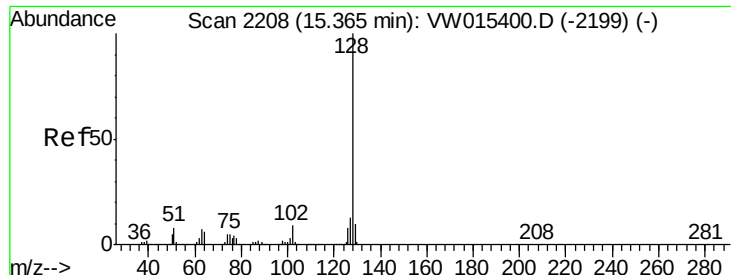
Ion Ratio Lower Upper

75 100

155 105.6 38.7 116.1

157 85.2 48.1 144.4

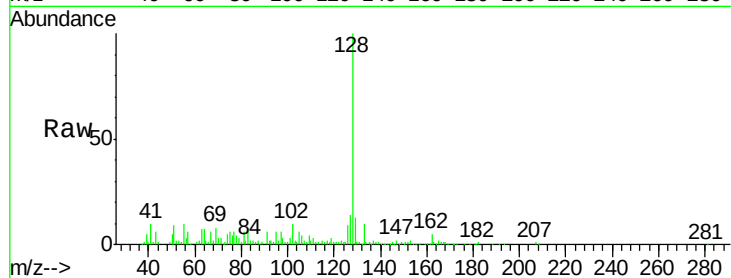




#95
Naphthalene
Concen: 32.342 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. -0.00 min
Lab File: VW015441.D
Acq: 15 May 2020 18:25

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.8	10.5	15.7
129	9.4	8.6	12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

