

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW041020\
 Data File : VW015180.D
 Acq On : 10 Apr 2020 14:50
 Operator : SY/VA
 Sample : L2176-05RE
 Misc : 5.08G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Apr 11 06:28:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Apr 10 13:10:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	1469100	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	1163106	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	451185	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	225460	16.23	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	64.92%
7) Chloroethane-d5	2.89	69	177086	17.38	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	69.52%
10) 1,1-Dichloroethene-d2	4.02	63	425838	11.57	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	46.28%
20) 2-Butanone-d5	7.07	46	157089	33.05	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	66.10%
24) Chloroform-d	7.65	84	588747	16.99	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	67.96%
26) 1,2-Dichloroethane-d4	8.31	65	285734	16.65	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	66.60%#
29) Benzene-d6	8.27	84	1271852	19.76	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	79.04%
33) 1,2-Dichloropropane-d6	9.27	67	399127	20.06	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	80.24%
37) Toluene-d8	10.32	98	1333720	22.11	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	88.44%
38) trans-1,3-Dichloropropene-	10.57	79	154954	17.07	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	68.28%
39) 2-Hexanone-d5	10.92	63	139906	39.35	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	78.70%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	256154	17.61	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	70.44%
61) 1,2-Dichlorobenzene-d4	13.85	152	243403	15.05	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	60.20%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Acetone	4.12	43	64809	21.514	ug/L	95
21) 2-Butanone	7.17	43	37886	7.714	ug/L	85
30) Cyclohexane	7.95	56	139296	4.305	ug/L	98
36) Methylcyclohexane	9.34	83	2117703	61.029	ug/L	92
40) 1,2-Dichloropropane	9.34	63	12477	0.707	ug/L #	1
41) Bromodichloromethane	9.60	83	30359	1.338	ug/L #	77
44) Toluene	10.38	91	92791	1.217	ug/L	95
46) 1,1,2-Trichloroethane	10.76	97	787252	62.621	ug/L #	20
49) 2-Hexanone	10.93	43	367440	53.043	ug/L #	22
53) Ethylbenzene	11.73	91	145020	1.692	ug/L	95
54) m,p-Xylene	11.83	106	623464	18.965	ug/L	98
55) o-xylene	12.16	106	357652	11.383	ug/L	93
56) Styrene	12.16	104	22812	0.432	ug/L #	1
57) Isopropylbenzene	12.46	105	946991	11.164	ug/L	98
58) 1,1,2,2-Tetrachloroethane	12.69	83	101507	6.929	ug/L #	57
64) 1,4-Dichlorobenzene	13.58	146	14365	0.496	ug/L #	1
66) 1,2-Dibromo-3-chloropropan	14.50	75	2861	1.304	ug/L #	8

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Quant Title : VOC Analysis
QLast Update : Fri Apr 10 13:10:27 2020
Response via : Initial Calibration

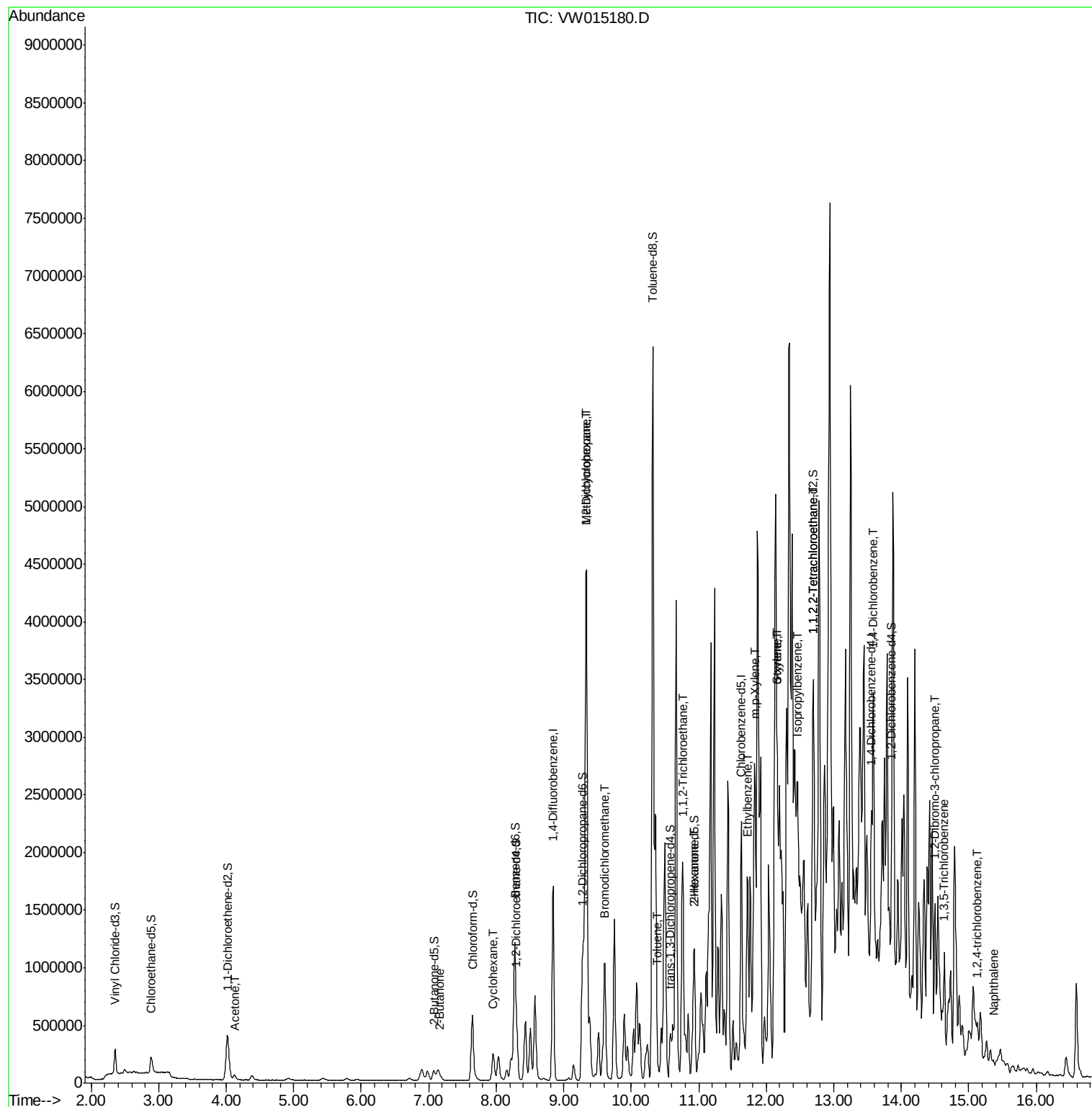
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,3,5-Trichlorobenzene	14.63	180	9676	0.471	ug/L #	73
68) 1,2,4-trichlorobenzene	15.13	180	38007	2.319	ug/L #	1
69) Naphthalene	15.36	128	20272	0.617	ug/L #	89

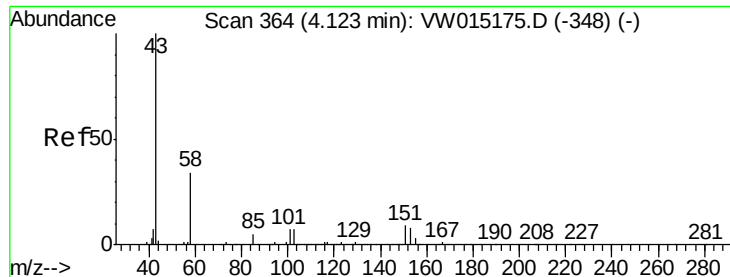
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_W
ClientSampled :

Quant Time: Apr 11 06:28:43 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM041020S.M
Quant Title : VOC Analysis
QLast Update : Fri Apr 10 13:10:27 2020
Response via : Initial Calibration





#13

Acetone

Concen: 21.514 ug/L

RT: 4.12 min Scan# 364

Delta R.T. -0.00 min

Lab File: VW015180.D

Acq: 10 Apr 2020 14:50

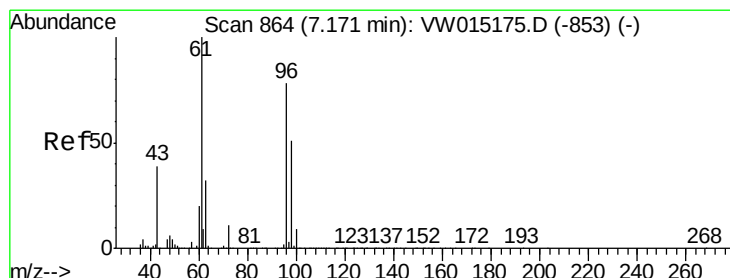
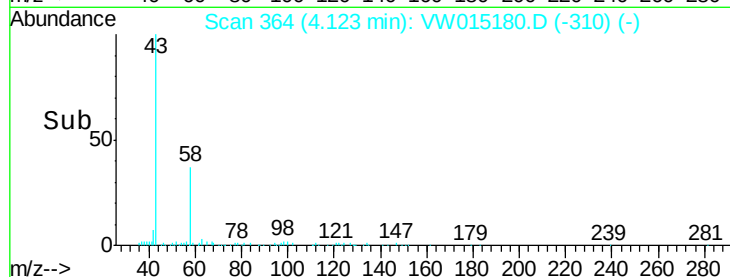
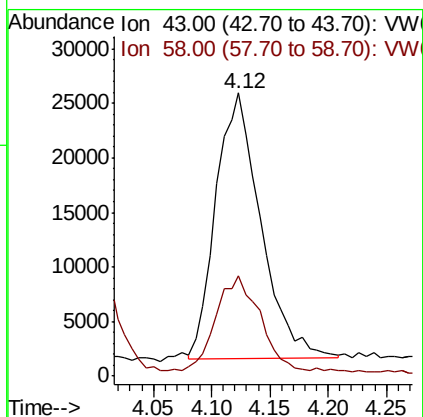
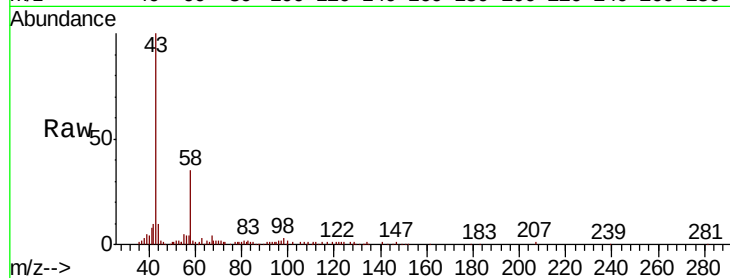
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 43 Resp: 64809

Ion Ratio Lower Upper

43 100

58 35.1 0.0 64.6



#21

2-Butanone

Concen: 7.714 ug/L

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW015180.D

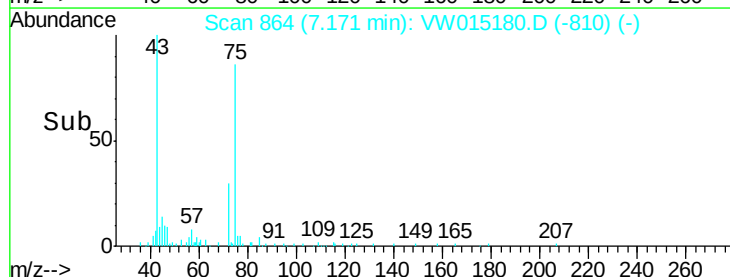
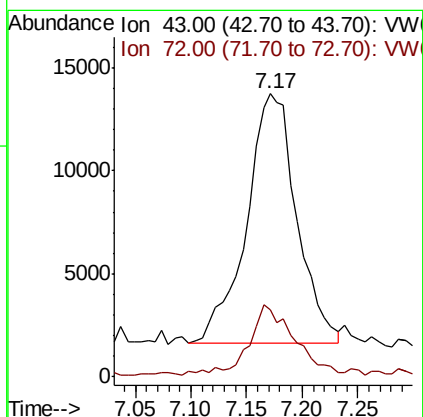
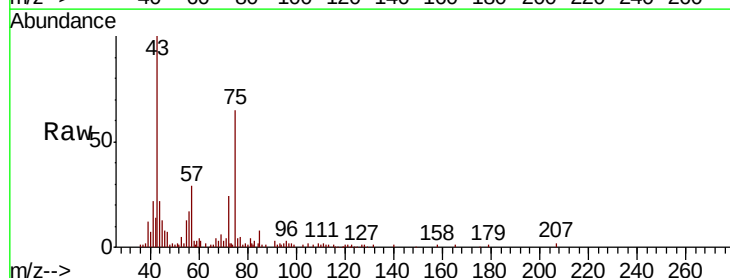
Acq: 10 Apr 2020 14:50

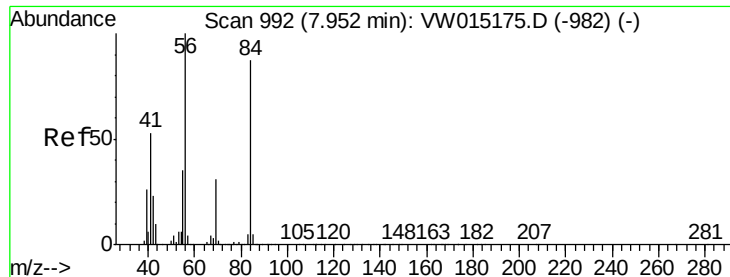
Tgt Ion: 43 Resp: 37886

Ion Ratio Lower Upper

43 100

72 20.8 14.4 43.0

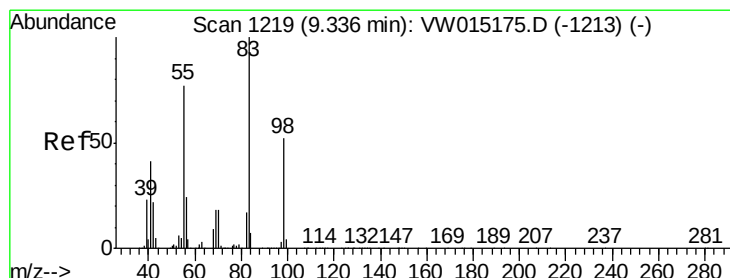
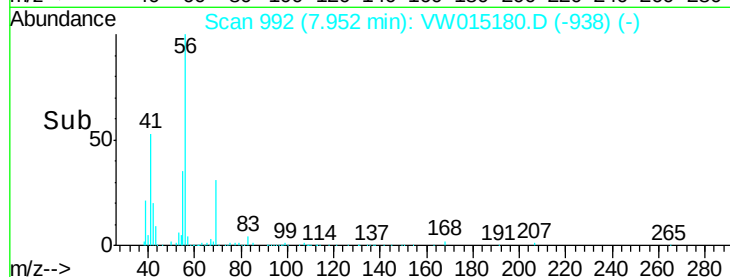
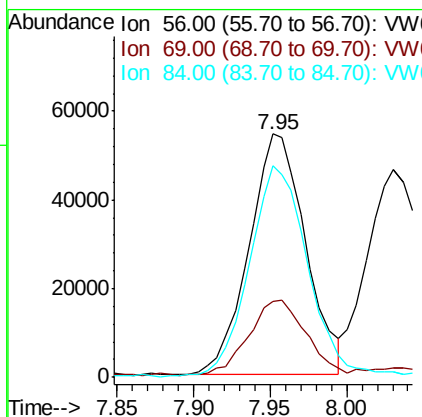
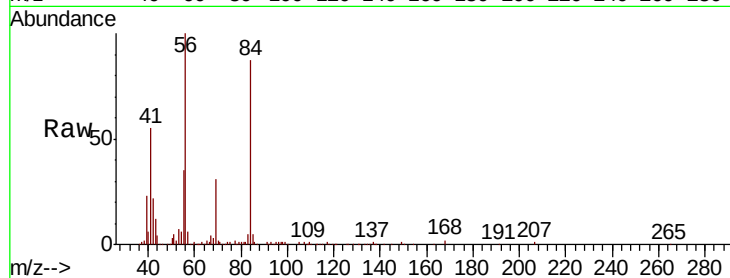




#30
Cyclohexane
Concen: 4.305 ug/L
RT: 7.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: VW015180.D
Acq: 10 Apr 2020 14:50

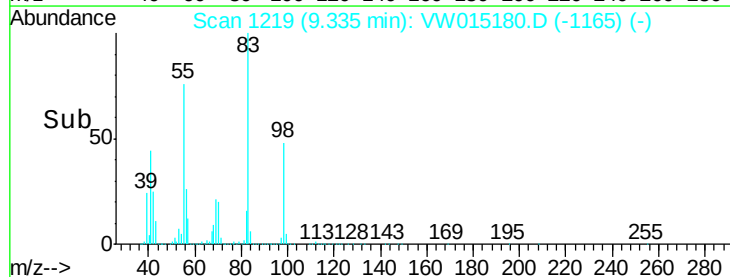
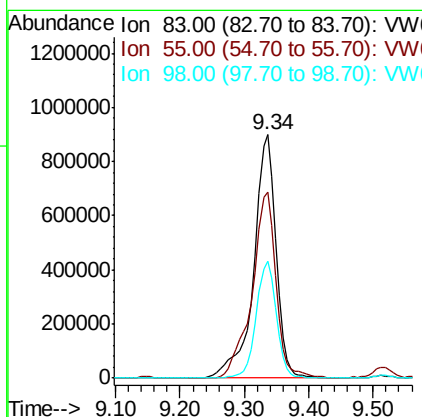
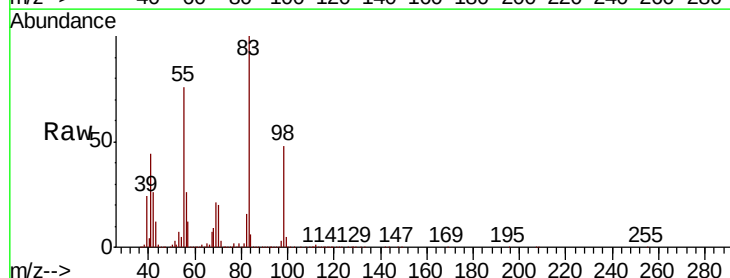
Instrument :
MSVOA_W
ClientSampleId :

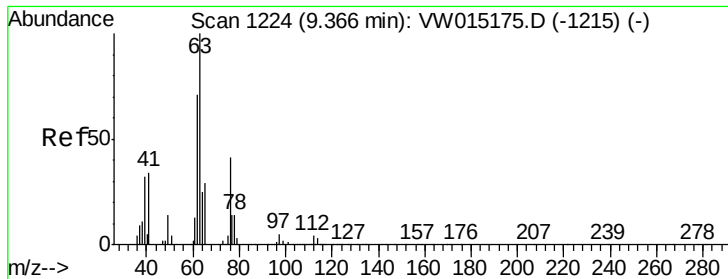
Tot Ion	56	Resp	139296
Ion Ratio	Lower	Upper	
56	100		
69	31.7	24.9	37.3
84	90.2	70.6	105.8



#36
Methylcyclohexane
Concen: 61.029 ug/L
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW015180.D
Acq: 10 Apr 2020 14:50

Tgt Ion	83	Resp	2117703
Ion Ratio	Lower	Upper	
83	100		
55	82.1	60.6	91.0
98	43.5	39.4	59.0





#40

1,2-Dichloropropane

Concen: 0.707 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. -0.03 min

Lab File: VW015180.D

Acq: 10 Apr 2020 14:50

Instrument :

MSVOA_W

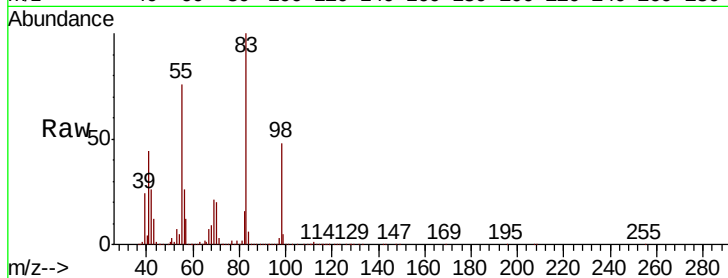
ClientSampleId :

Tot Ion: 63 Resp: 12477

Ion Ratio Lower Upper

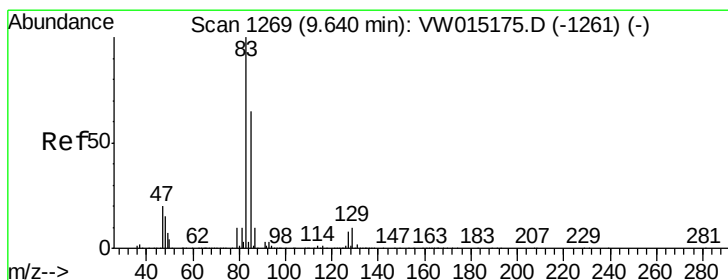
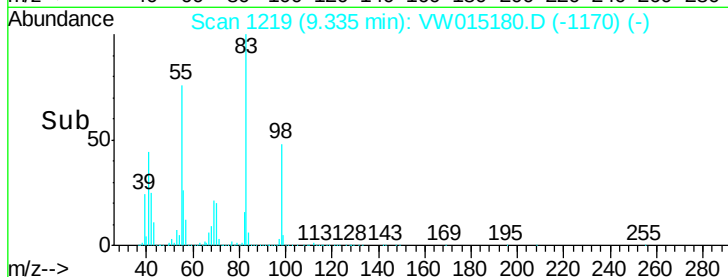
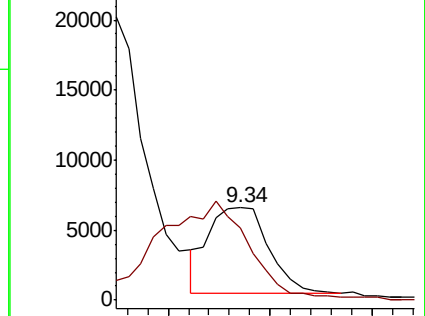
63 100

112 179.2 3.4 5.2#



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 1.338 ug/L

RT: 9.60 min Scan# 1263

Delta R.T. -0.04 min

Lab File: VW015180.D

Acq: 10 Apr 2020 14:50

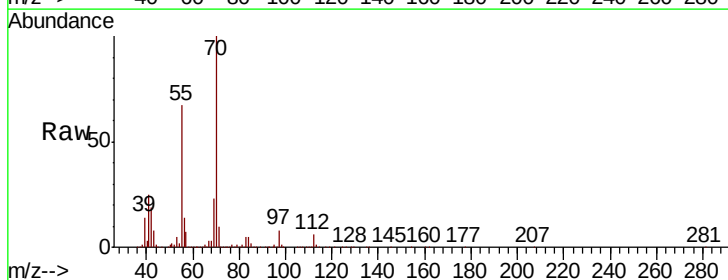
Tgt Ion: 83 Resp: 30359

Ion Ratio Lower Upper

83 100

85 46.9 45.4 84.4

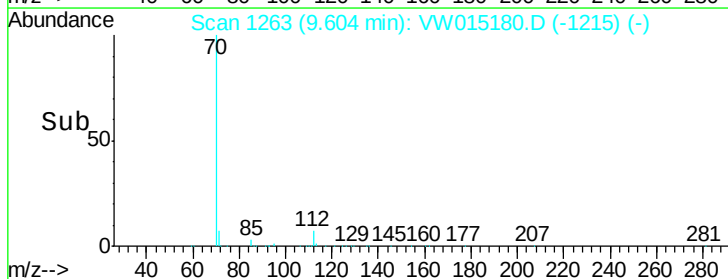
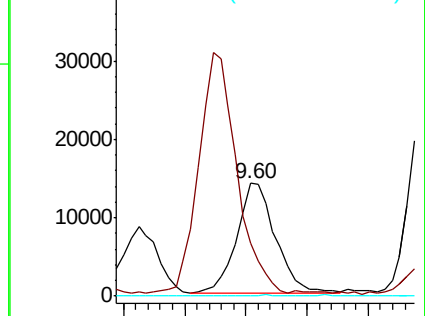
127 0.0 6.5 9.7#

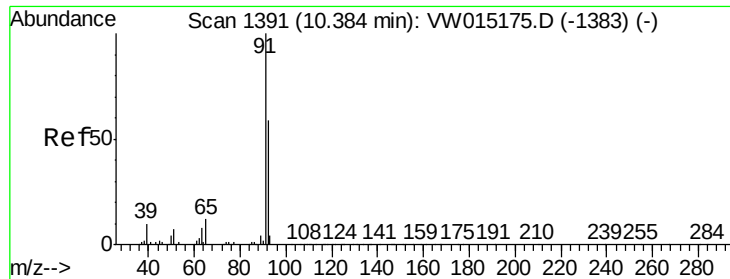


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V





#44

Toluene

Concen: 1.217 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW015180.D

Acq: 10 Apr 2020 14:50

Instrument :

MSVOA_W

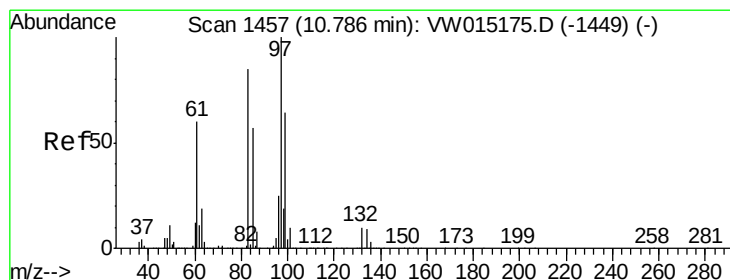
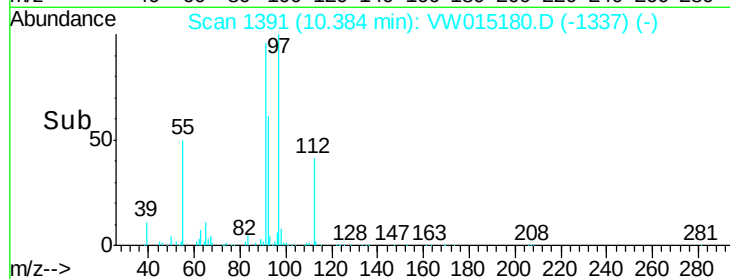
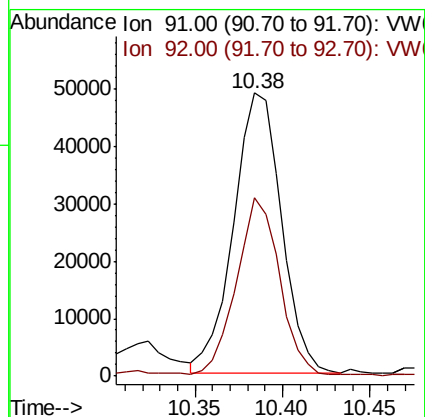
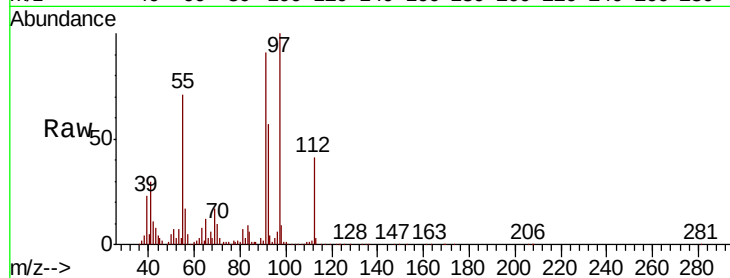
ClientSampleId :

Tot Ion: 91 Resp: 92791

Ion Ratio Lower Upper

91 100

92 63.2 41.6 77.2



#46

1,1,2-Trichloroethane

Concen: 62.621 ug/L

RT: 10.76 min Scan# 1453

Delta R.T. -0.02 min

Lab File: VW015180.D

Acq: 10 Apr 2020 14:50

Tgt Ion: 97 Resp: 787252

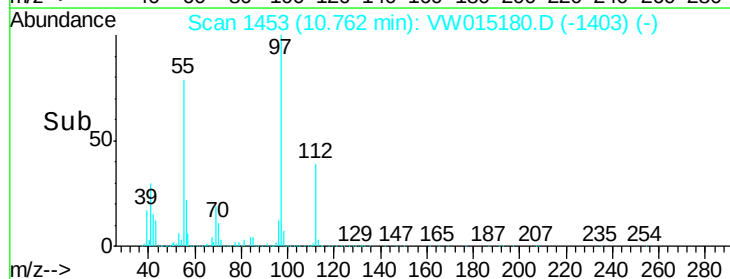
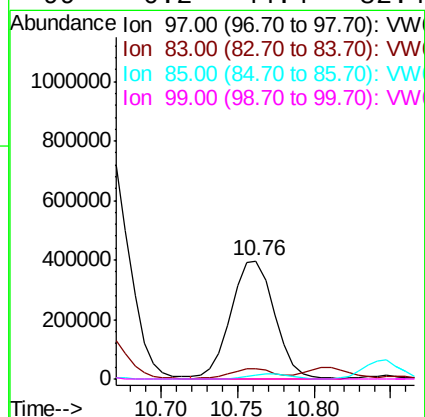
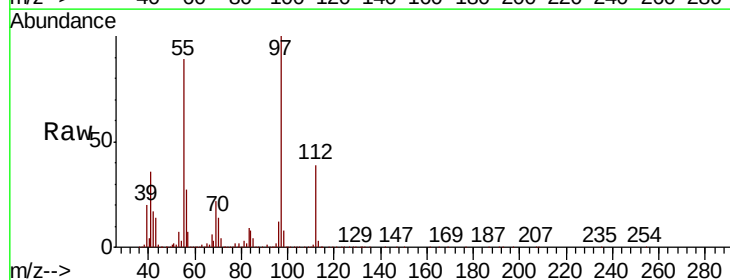
Ion Ratio Lower Upper

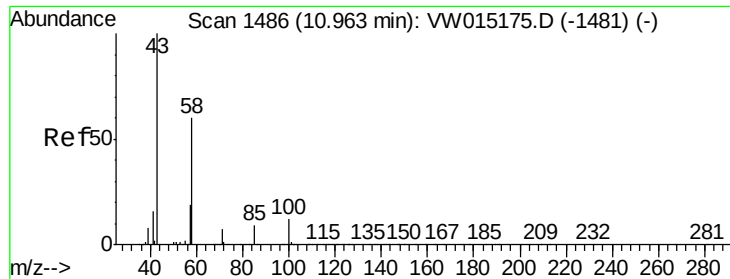
97 100

83 8.9 59.8 111.0#

85 3.8 39.8 73.8#

99 0.2 44.4 82.4#





#49

2-Hexanone

Concen: 53.043 ug/L

RT: 10.93 min Scan# 1481

Delta R.T. -0.03 min

Lab File: VW015180.D

Acq: 10 Apr 2020 14:50

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion: 43 Resp: 367440

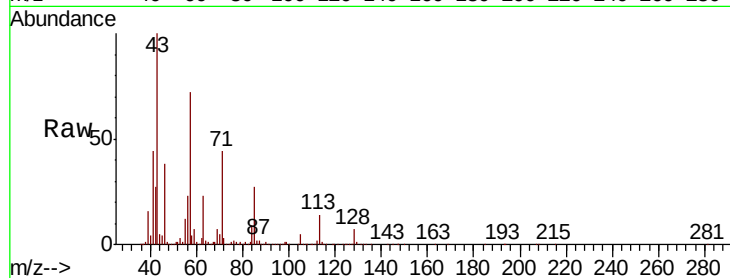
Ion Ratio Lower Upper

43 100

58 4.8 45.4 68.2#

57 78.5 15.2 22.8#

100 0.2 10.0 15.0#

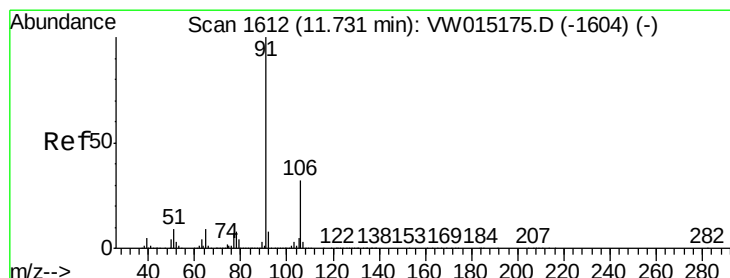
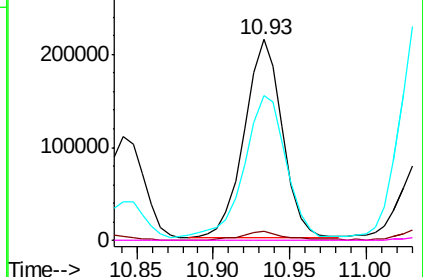
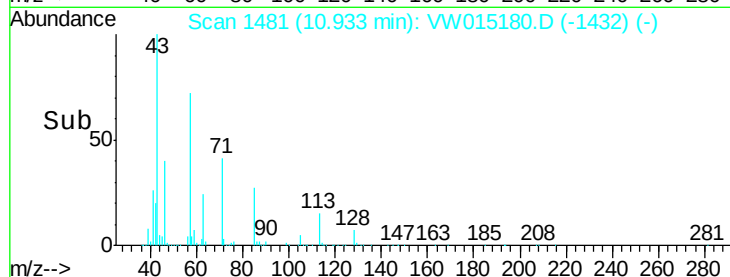


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

Ion 100.00 (99.70 to 100.70): VW



#53

Ethylbenzene

Concen: 1.692 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW015180.D

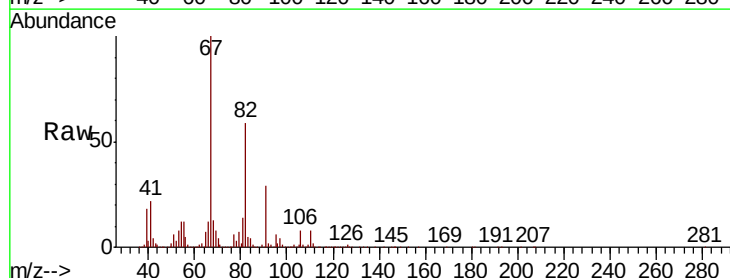
Acq: 10 Apr 2020 14:50

Tgt Ion: 91 Resp: 145020

Ion Ratio Lower Upper

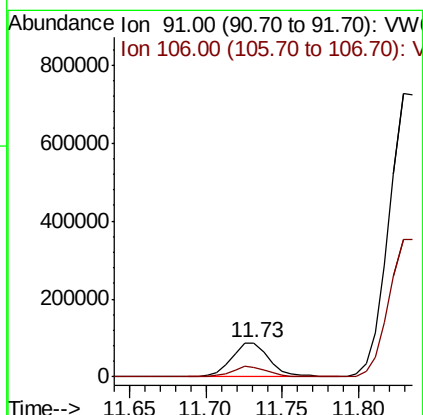
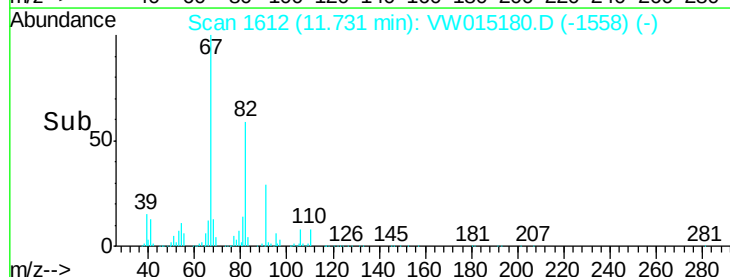
91 100

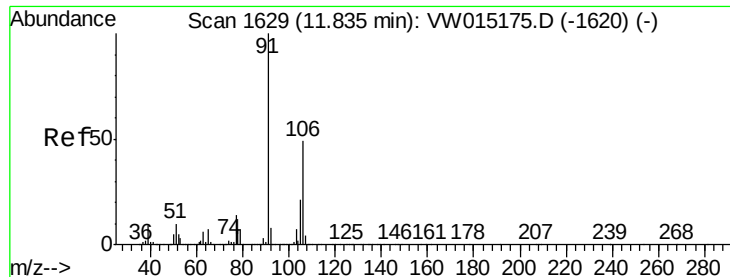
106 29.4 22.5 41.7



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): VW





#54

m,p-Xylene

Concen: 18.965 ug/L

RT: 11.83 min Scan# 1628

Delta R.T. -0.01 min

Lab File: VW015180.D

Acq: 10 Apr 2020 14:50

Instrument :

MSVOA_W

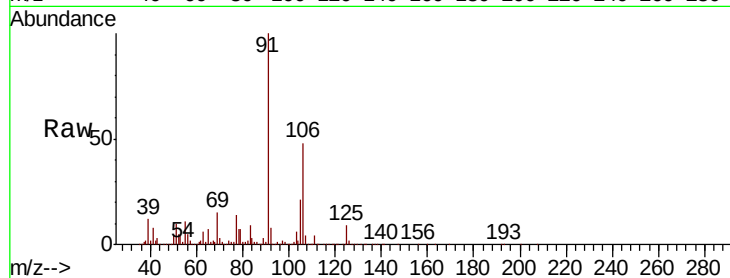
ClientSampled :

Tot Ion:106 Resp: 623464

Ion Ratio Lower Upper

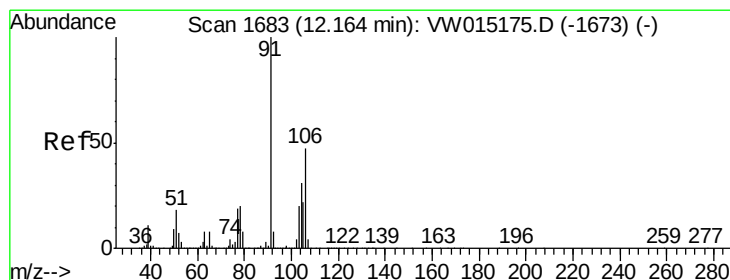
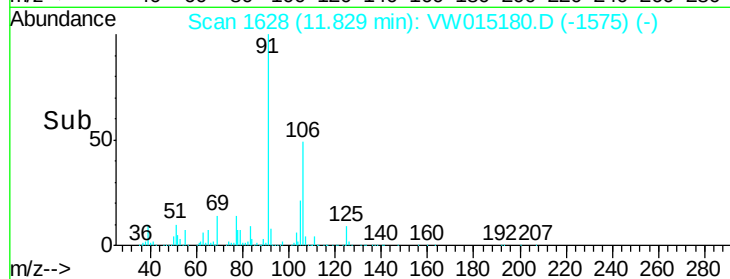
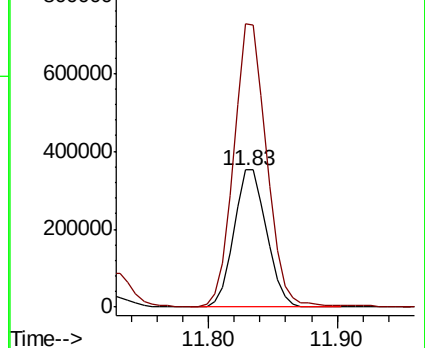
106 100

91 206.3 142.7 264.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 11.383 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW015180.D

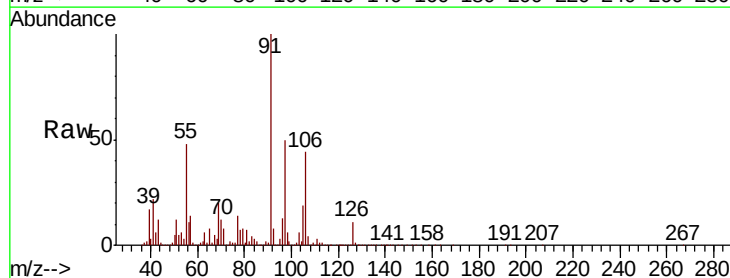
Acq: 10 Apr 2020 14:50

Tgt Ion:106 Resp: 357652

Ion Ratio Lower Upper

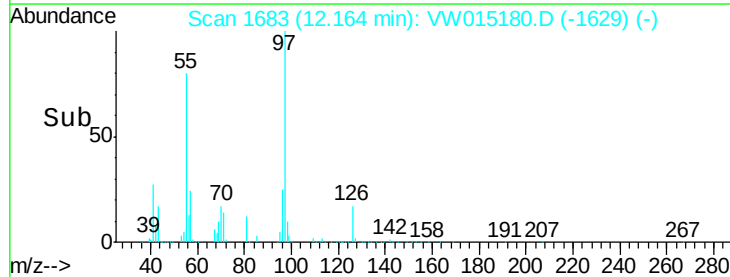
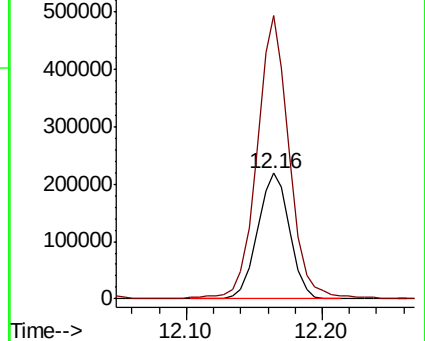
106 100

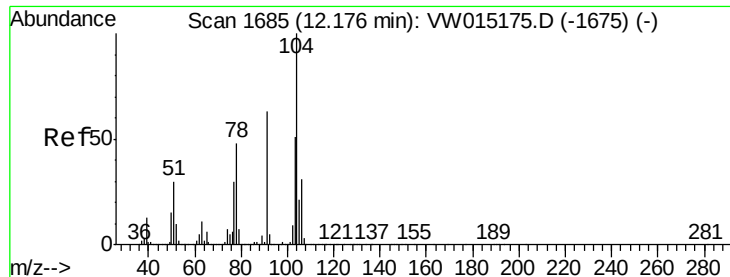
91 225.0 150.1 278.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#56

Stvrene

Concen: 0.432 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.01 min

Lab File: VW015180.D

Acq: 10 Apr 2020 14:50

Instrument :

MSVOA_W

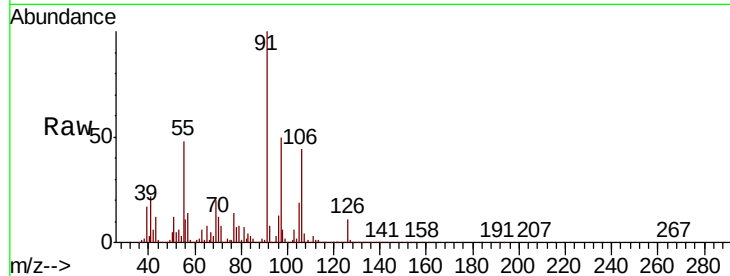
ClientSampled :

Tot Ion:104 Resp: 22812

Ion Ratio Lower Upper

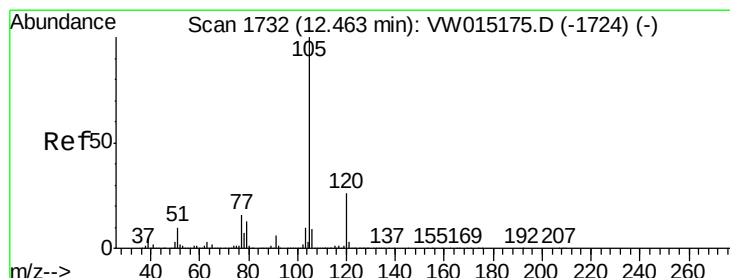
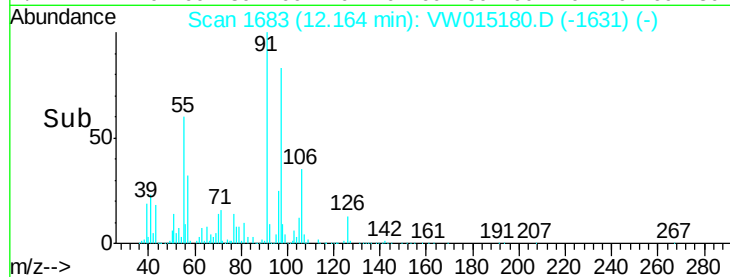
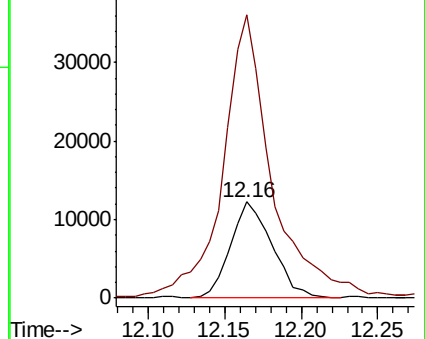
104 100

78 294.2 33.9 63.0#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V



#57

Isopropylbenzene

Concen: 11.164 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW015180.D

Acq: 10 Apr 2020 14:50

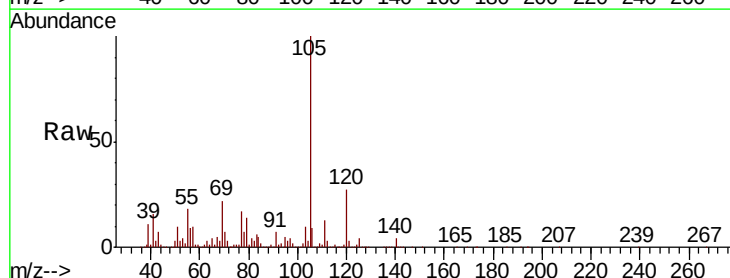
Tgt Ion:105 Resp: 946991

Ion Ratio Lower Upper

105 100

120 26.8 21.4 32.2

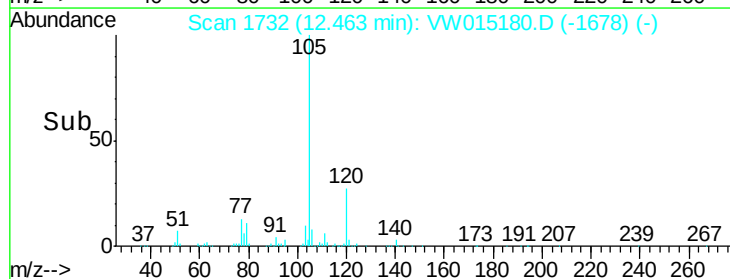
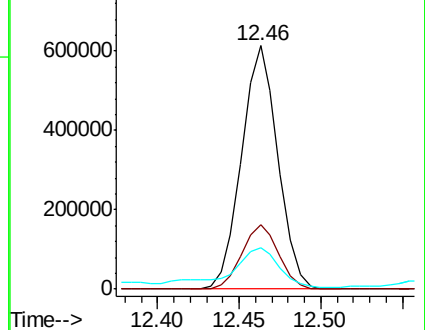
77 17.9 12.8 19.2

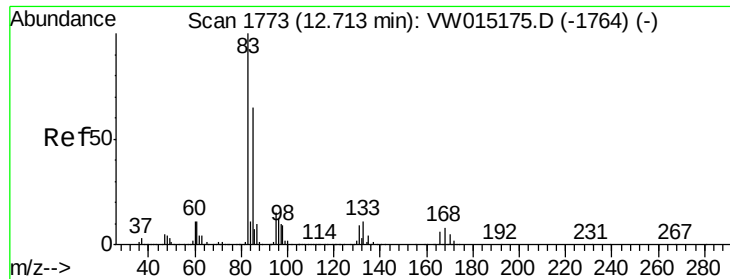


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V





#58

1,1,2,2-Tetrachloroethane

Concen: 6.929 ug/L

RT: 12.69 min Scan# 1769

Delta R.T. -0.02 min

Lab File: VW015180.D

Acq: 10 Apr 2020 14:50

Instrument :

MSVOA_W

ClientSampled :

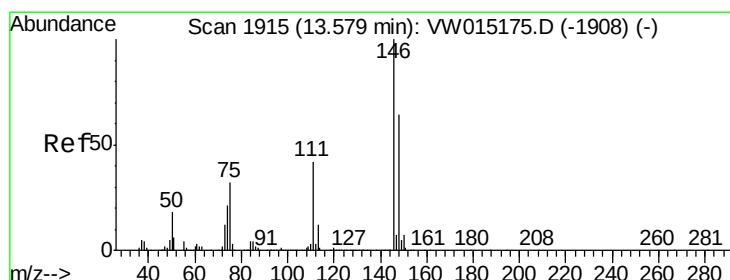
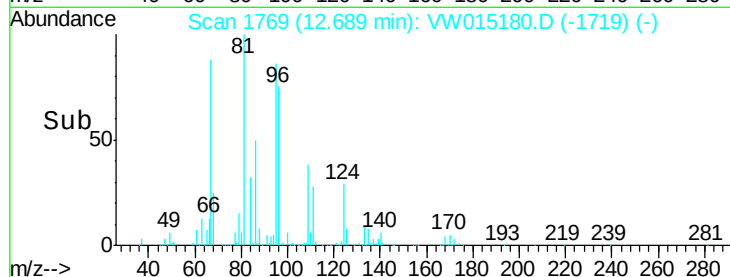
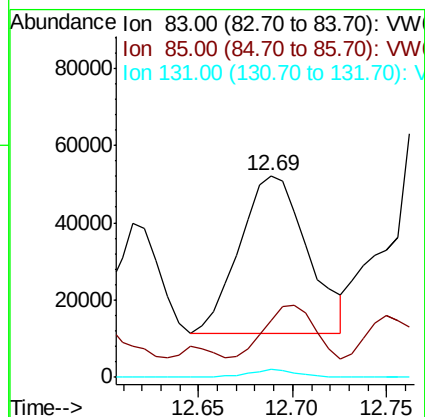
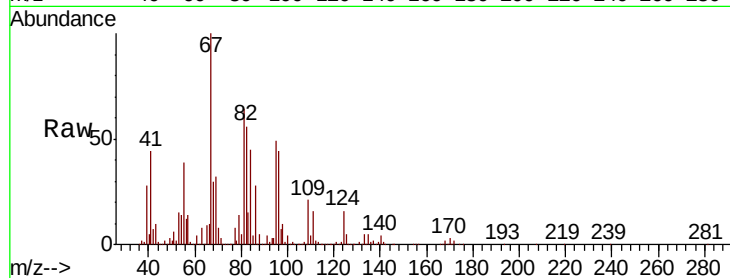
Tot Ion: 83 Resp: 101507

Ion Ratio Lower Upper

83 100

85 27.9 45.8 85.0#

131 3.9 7.2 10.8#



#64

1,4-Dichlorobenzene

Concen: 0.496 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW015180.D

Acq: 10 Apr 2020 14:50

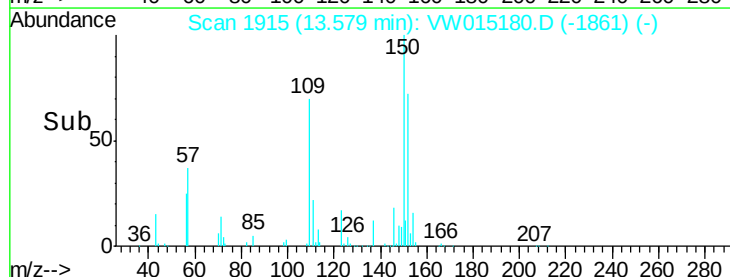
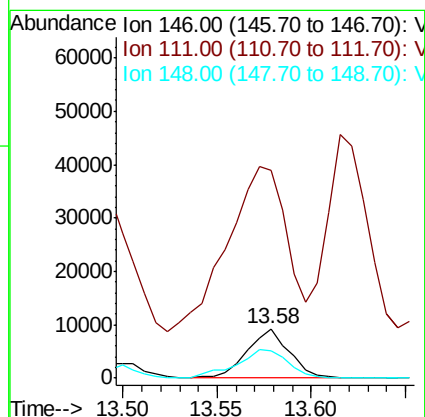
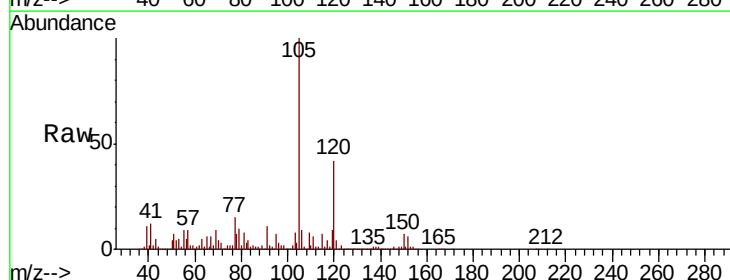
Tgt Ion: 146 Resp: 14365

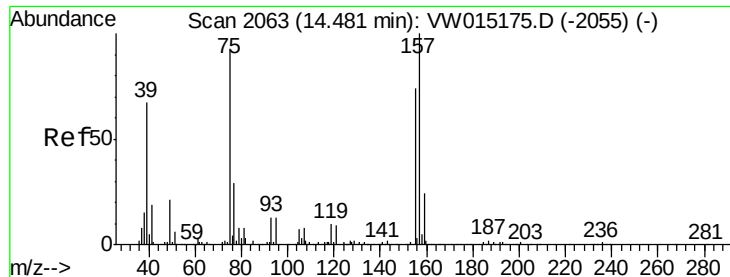
Ion Ratio Lower Upper

146 100

111 421.7 29.4 54.6#

148 55.2 44.8 83.2





#66

1,2-Dibromo-3-chloropropane

Concen: 1.304 ug/L

RT: 14.50 min Scan# 2066

Delta R.T. 0.02 min

Lab File: VW015180.D

Acq: 10 Apr 2020 14:50

Instrument :

MSVOA_W

ClientSampleId :

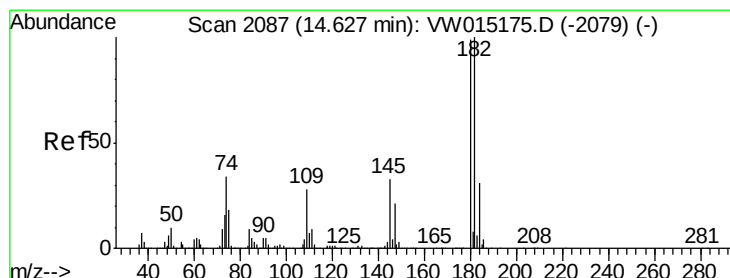
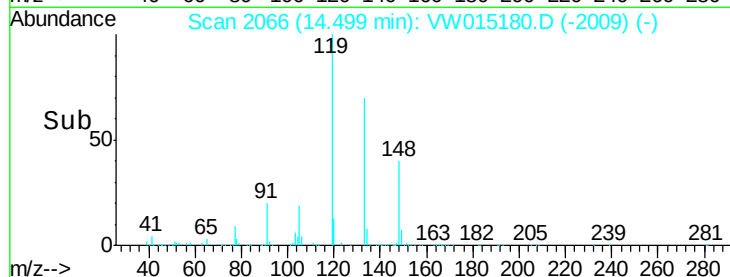
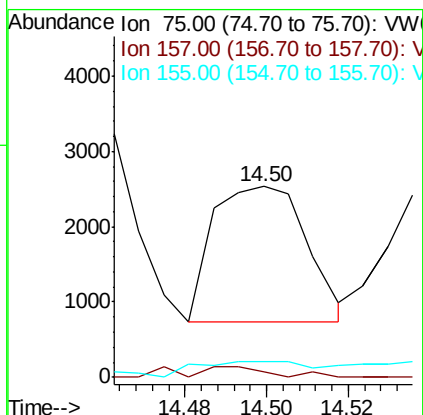
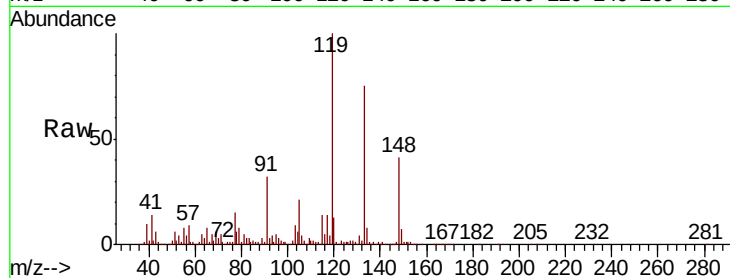
Tot Ion: 75 Resp: 2861

Ion Ratio Lower Upper

75 100

157 3.2 85.7 128.5#

155 8.1 63.8 95.6#



#67

1,3,5-Trichlorobenzene

Concen: 0.471 ug/L

RT: 14.63 min Scan# 2087

Delta R.T. -0.00 min

Lab File: VW015180.D

Acq: 10 Apr 2020 14:50

Tgt Ion: 180 Resp: 9676

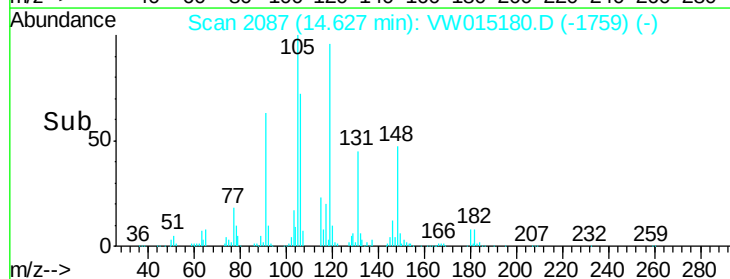
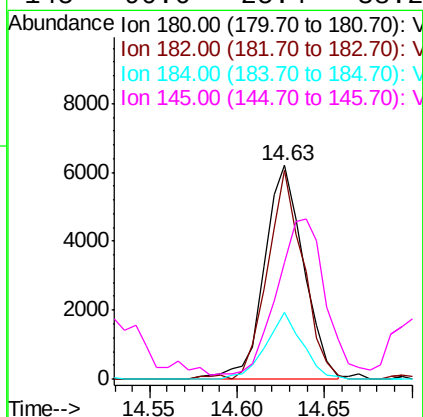
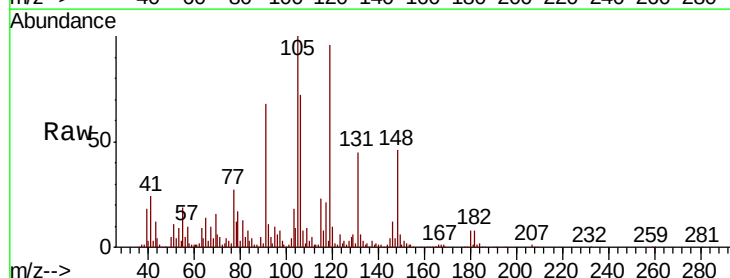
Ion Ratio Lower Upper

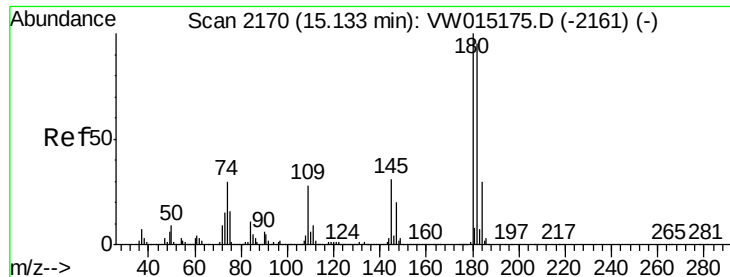
180 100

182 88.4 77.1 115.7

184 28.9 24.5 36.7

145 90.6 25.4 38.2#

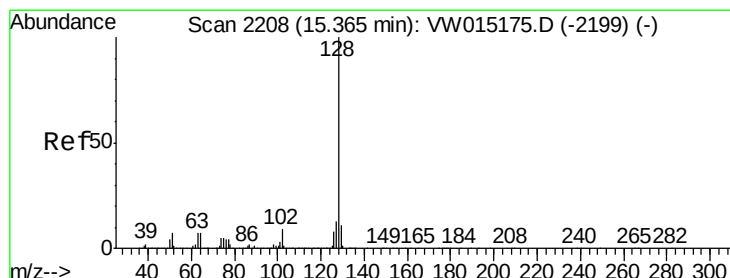
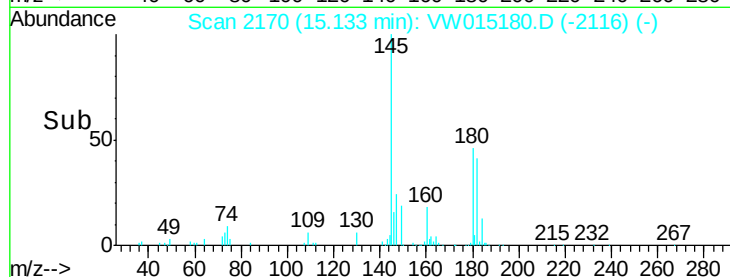
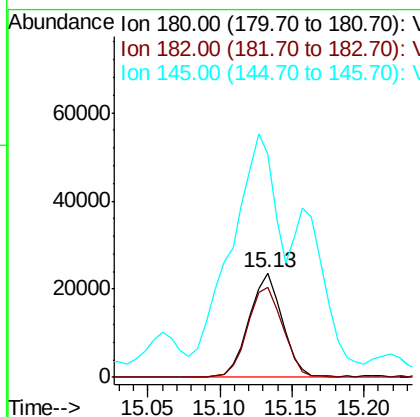
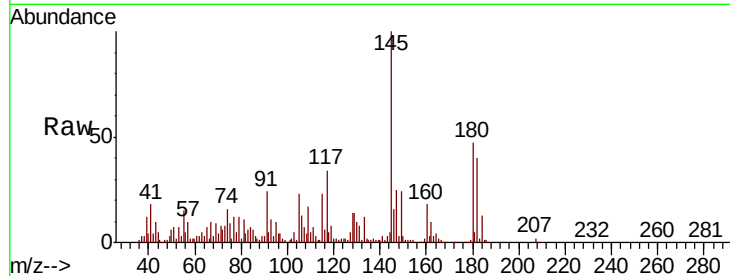




#68
 1,2,4-trichlorobenzene
 Concen: 2.319 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW015180.D
 Acq: 10 Apr 2020 14:50

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion:180 Resp: 38007
 Ion Ratio Lower Upper
 180 100
 182 91.2 77.7 116.5
 145 331.1 25.9 38.9#



#69
 Naphthalene
 Concen: 0.617 ug/L
 RT: 15.36 min Scan# 2208
 Delta R.T. -0.00 min
 Lab File: VW015180.D
 Acq: 10 Apr 2020 14:50

Tgt Ion:128 Resp: 20272
 Ion Ratio Lower Upper
 128 100
 129 2.6 8.9 13.3#
 127 13.3 10.4 15.6

