

Data File : VW014117.D
Acq On : 25 Nov 2019 17:47
Operator : SY/VA
Sample : K6007-16
Misc : 3.20G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
C0BM2

Quant Time: Nov 26 07:49:37 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM111119S.M
Quant Title : VOC Analysis
QLast Update : Tue Nov 26 07:45:45 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	78632	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	25110	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	2900	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	52500	41.85	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	167.40%#
7) Chloroethane-d5	2.89	69	55662	54.73	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	218.92%#
10) 1,1-Dichloroethene-d2	4.01	63	66702	25.91	ug/L	-0.01
Spiked Amount	25.000	Range	45 - 110	Recovery	=	103.64%
20) 2-Butanone-d5	7.07	46	56991	156.37	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	312.74%#
24) Chloroform-d	7.64	84	126217	52.20	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	208.80%#
26) 1,2-Dichloroethane-d4	8.30	65	46264	38.06	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	152.24%#
29) Benzene-d6	8.27	84	202339	113.57	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	454.28%#
33) 1,2-Dichloropropane-d6	9.27	67	63804	122.26	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	489.04%#
37) Toluene-d8	10.32	98	67555	39.98	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	159.92%#
38) trans-1,3-Dichloropropene-	10.58	79	5228	23.39	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	93.56%
39) 2-Hexanone-d5	10.93	63	10252	103.59	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	207.18%#
48) 1,1,2,2-Tetrachloroethane-	12.69	84	26920	68.31	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	273.24%#
61) 1,2-Dichlorobenzene-d4	13.85	152	4048	34.74	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	138.96%#

Target Compounds

					Qvalue	
12) 1,1-Dichloroethene	4.04	96	746	0.562	ug/L #	1
13) Acetone	4.12	43	8408	22.671	ug/L	86
19) 1,1-Dichloroethane	6.21	63	1369	0.587	ug/L #	84
21) 2-Butanone	7.17	43	1313	2.756	ug/L	90
30) Cyclohexane	7.95	56	2562	3.188	ug/L #	88
31) 1,1,1-Trichloroethane	7.87	97	52037	82.693	ug/L	99
35) Trichloroethene	8.84	95	2467	5.021	ug/L #	2
36) Methylcyclohexane	9.33	83	6345	7.203	ug/L	95
42) cis-1,3-Dichloropropene	10.04	75	318	0.454	ug/L #	68
43) 4-Methyl-2-pentanone	10.20	43	844	2.883	ug/L #	86
44) Toluene	10.38	91	1362	0.678	ug/L #	70
54) m,p-Xylene	11.82	106	550	0.642	ug/L #	31
55) o-xylene	12.16	106	231	0.288	ug/L #	49
58) 1,1,2,2-Tetrachloroethane	12.78	83	209	0.550	ug/L #	27
59) 1,2,3-Trichloropropane	12.60	75	413	1.444	ug/L	94
63) 1,3-Dichlorobenzene	13.58	146	94	0.462	ug/L #	25
64) 1,4-Dichlorobenzene	13.58	146	94	0.467	ug/L #	26

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW112519\
Quantitation Report (Not Reviewed)

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Quant Title : VOC Analysis
QLast Update : Tue Nov 26 07:45:45 2019
Response via : Initial Calibration

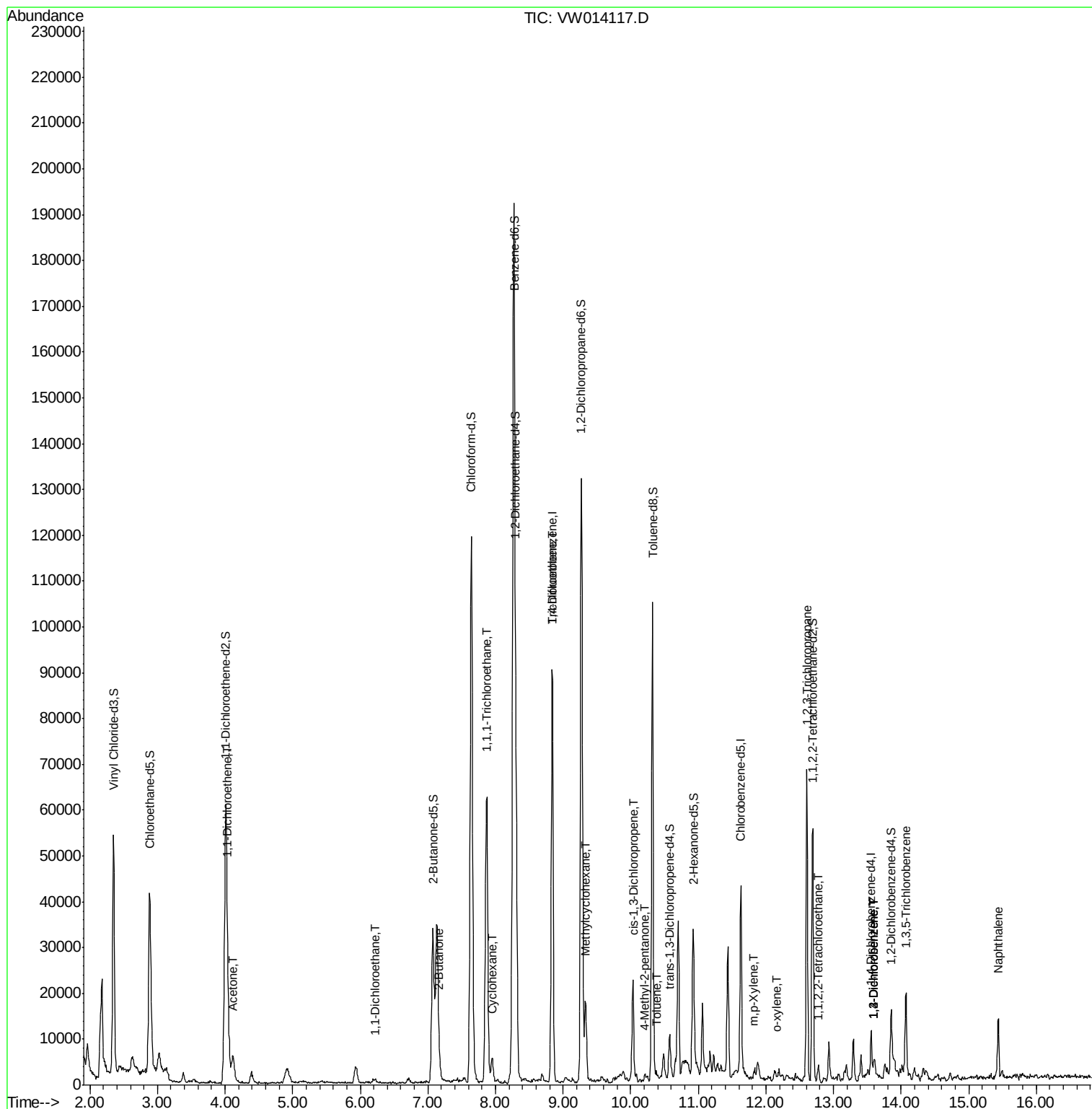
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,2-Dichlorobenzene	13.58	146	94	0.521	ug/L #	26
67) 1,3,5-Trichlorobenzene	14.07	180	66	0.425	ug/L #	19
69) Naphthalene	15.44	128	276	1.273	ug/L #	71

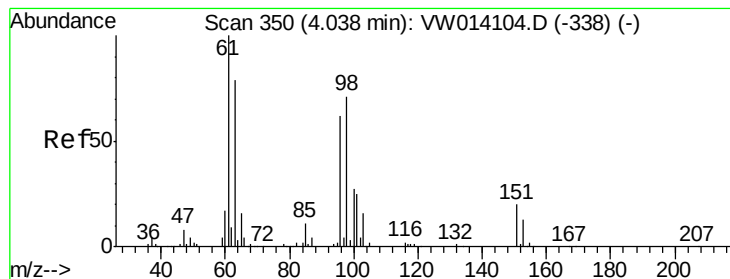
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 0.562 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.00 min

Lab File: VW014117.D

Acq: 25 Nov 2019 17:47

Instrument :

MSVOA_W

ClientSampled :

C0BM2

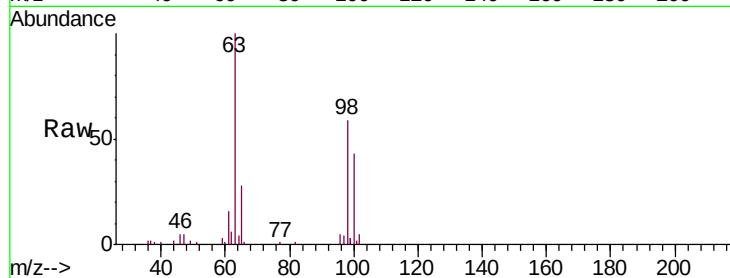
Tgt Ion: 96 Resp: 746

Ion Ratio Lower Upper

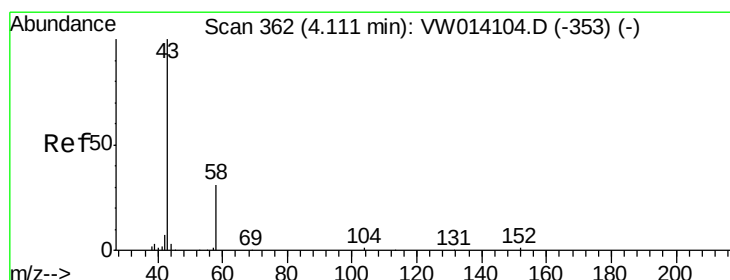
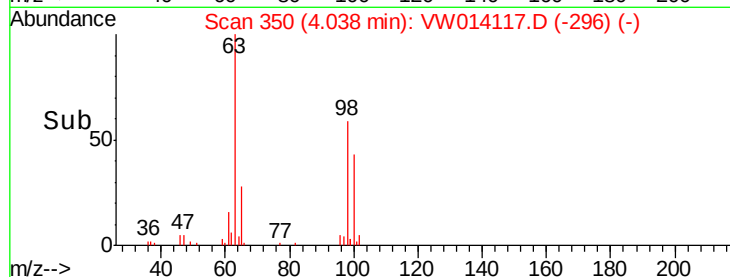
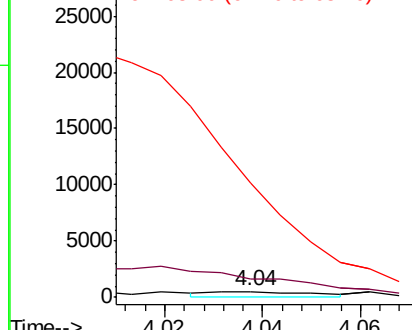
96 100

61 290.1 109.8 204.0#

63 1868.5 80.7 149.9#



Abundance Ion 96.00 (95.70 to 96.70): VW
Ion 61.00 (60.70 to 61.70): VW
Ion 63.00 (62.70 to 63.70): VW



#13

Acetone

Concen: 22.671 ug/L

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW014117.D

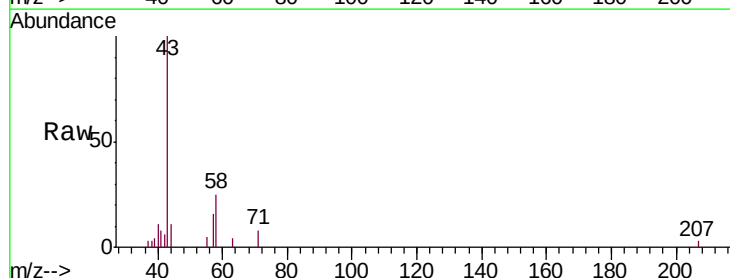
Acq: 25 Nov 2019 17:47

Tgt Ion: 43 Resp: 8408

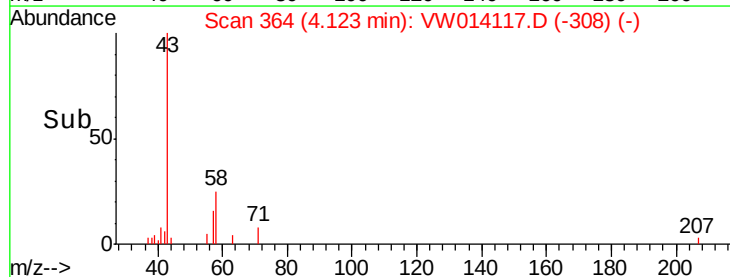
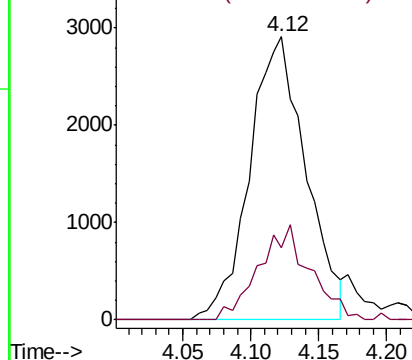
Ion Ratio Lower Upper

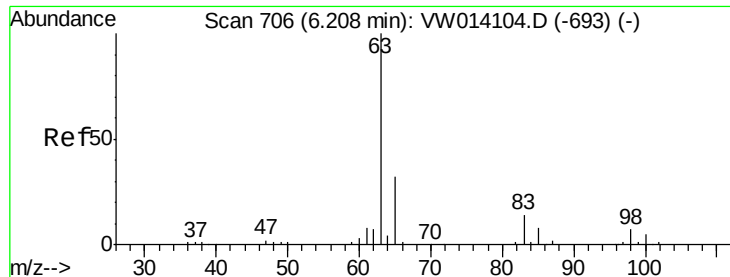
43 100

58 24.7 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW

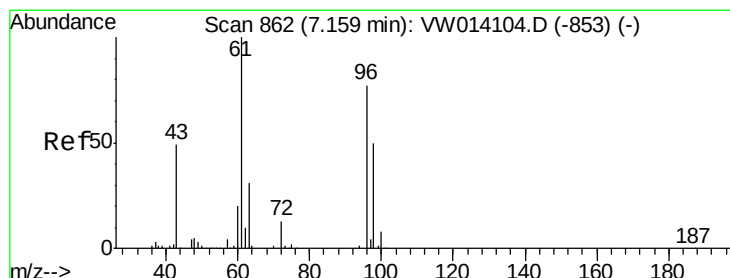
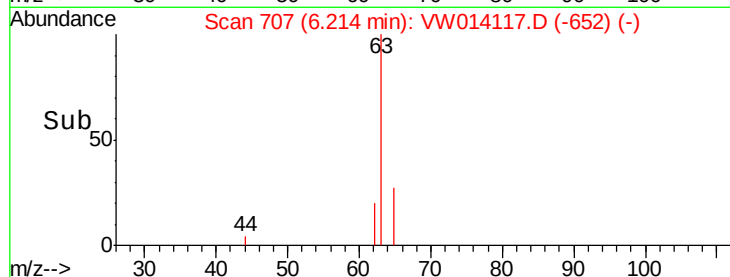
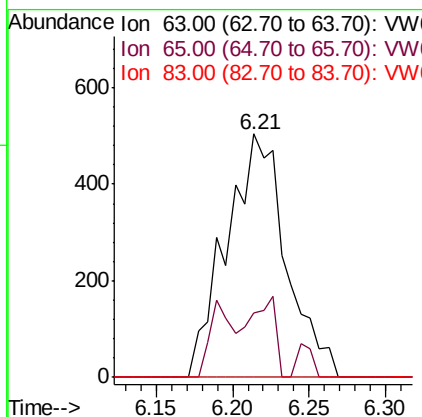
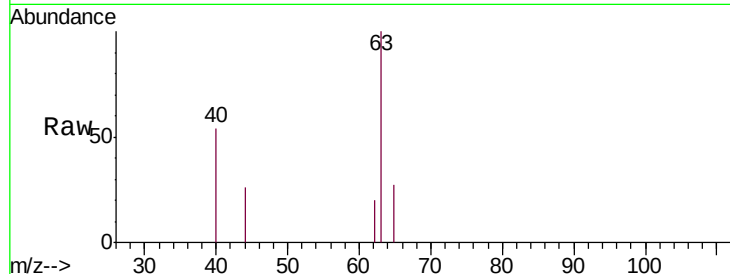




#19
 1,1-Dichloroethane
 Concen: 0.587 ug/L
 RT: 6.21 min Scan# 707
 Delta R.T. 0.01 min
 Lab File: VW014117.D
 Acq: 25 Nov 2019 17:47

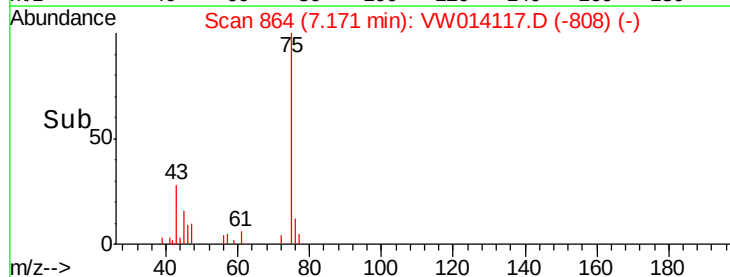
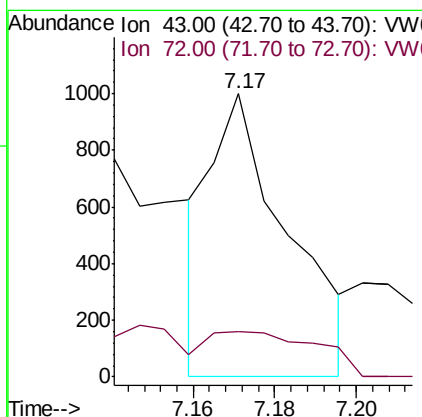
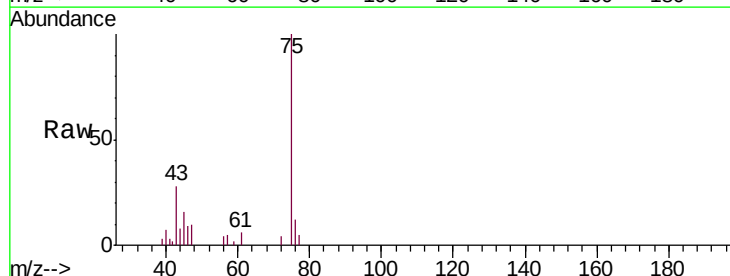
Instrument :
 MSVOA_W
 ClientSampled :
 C0BM2

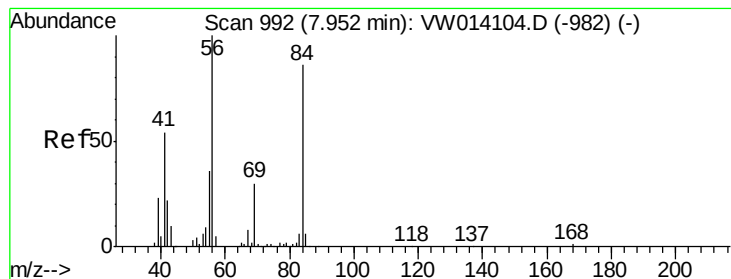
Tgt Ion: 63 Resp: 1369
 Ion Ratio Lower Upper
 63 100
 65 26.6 22.1 41.1
 83 0.0 9.0 16.6#



#21
 2-Butanone
 Concen: 2.756 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. 0.01 min
 Lab File: VW014117.D
 Acq: 25 Nov 2019 17:47

Tgt Ion: 43 Resp: 1313
 Ion Ratio Lower Upper
 43 100
 72 22.8 14.1 42.2





#30

Cyclohexane

Concen: 3.188 ug/L

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW014117.D

Acq: 25 Nov 2019 17:47

Instrument :

MSVOA_W

ClientSampled :

C0BM2

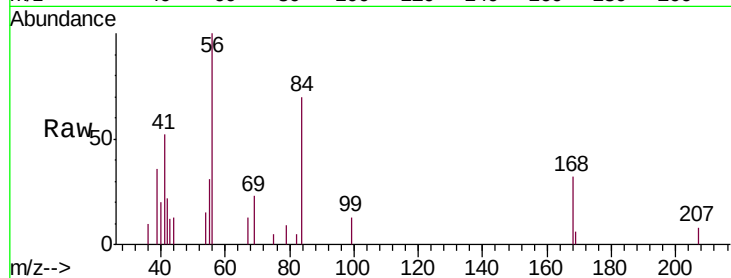
Tgt Ion: 56 Resp: 2562

Ion Ratio Lower Upper

56 100

69 7.5 24.6 37.0#

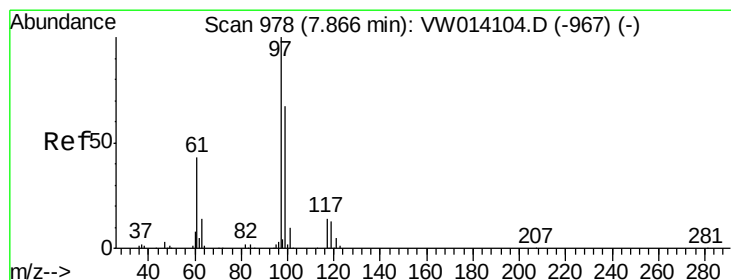
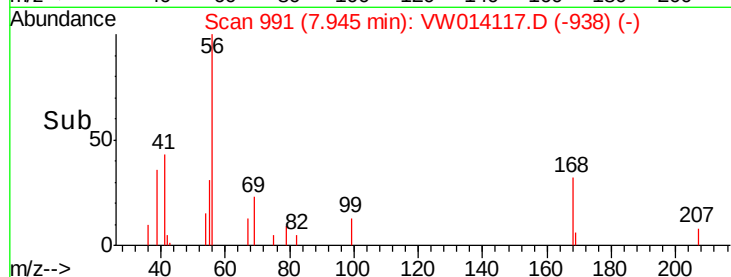
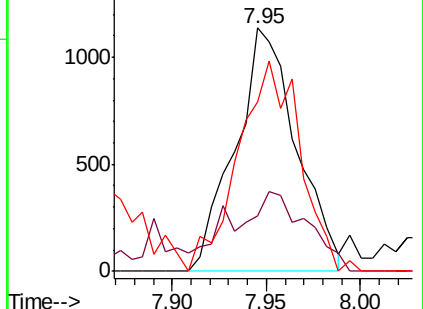
84 86.5 70.2 105.2



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



#31

1,1,1-Trichloroethane

Concen: 82.693 ug/L

RT: 7.87 min Scan# 978

Delta R.T. -0.00 min

Lab File: VW014117.D

Acq: 25 Nov 2019 17:47

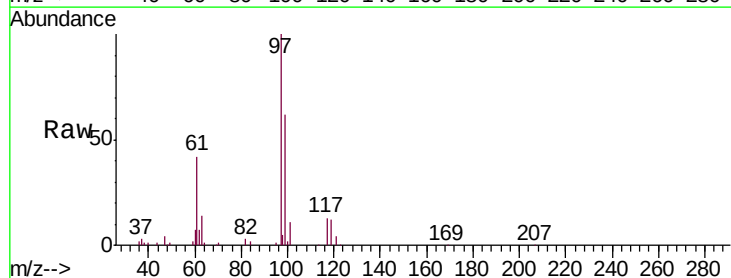
Tgt Ion: 97 Resp: 52037

Ion Ratio Lower Upper

97 100

99 63.5 51.1 76.7

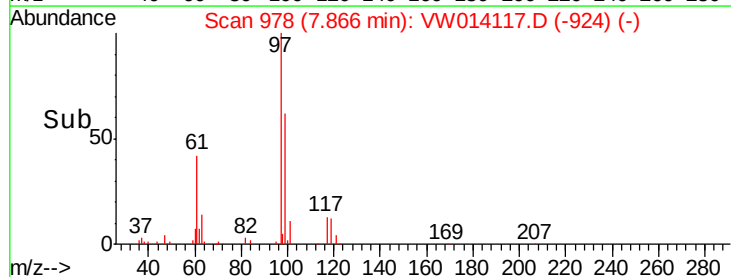
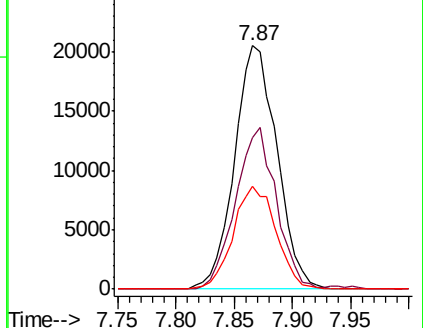
61 42.8 32.8 49.2

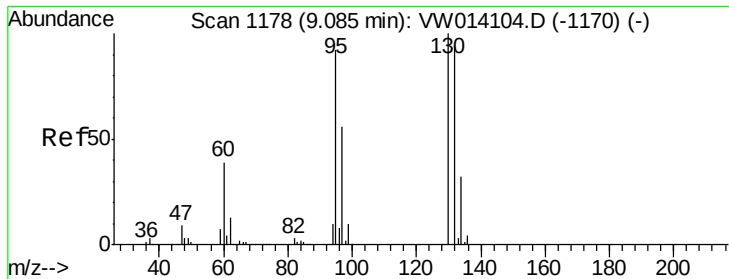


Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 99.00 (98.70 to 99.70): VW

Ion 61.00 (60.70 to 61.70): VW





#35

Trichloroethene

Concen: 5.021 ug/L

RT: 8.84 min Scan# 1137

Delta R.T. -0.25 min

Lab File: VW014117.D

Acq: 25 Nov 2019 17:47

Instrument :

MSVOA_W

ClientSampleId :

C0BM2

Tgt Ion: 95 Resp: 2467

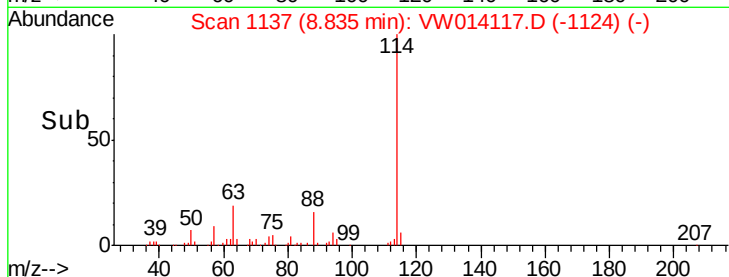
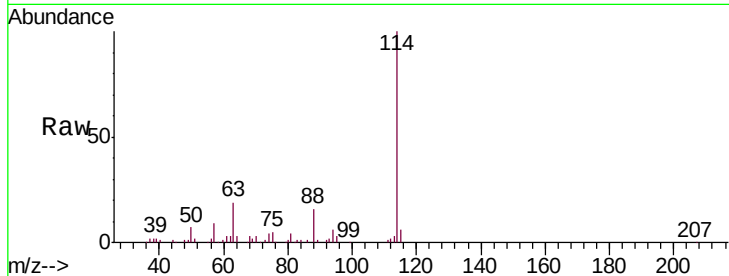
Ion Ratio Lower Upper

95 100

97 1.7 45.1 83.9#

132 0.0 73.7 136.9#

130 0.0 76.6 142.2#

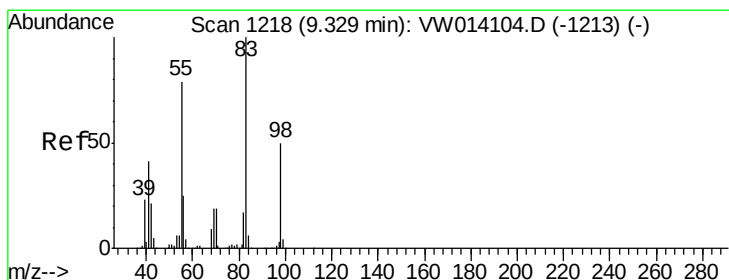
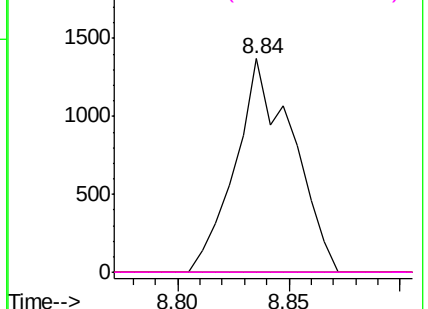


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): VW

Ion 130.00 (129.70 to 130.70): VW



#36

Methylcyclohexane

Concen: 7.203 ug/L

RT: 9.33 min Scan# 1218

Delta R.T. -0.00 min

Lab File: VW014117.D

Acq: 25 Nov 2019 17:47

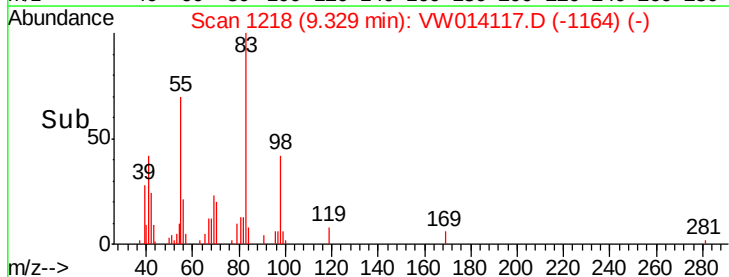
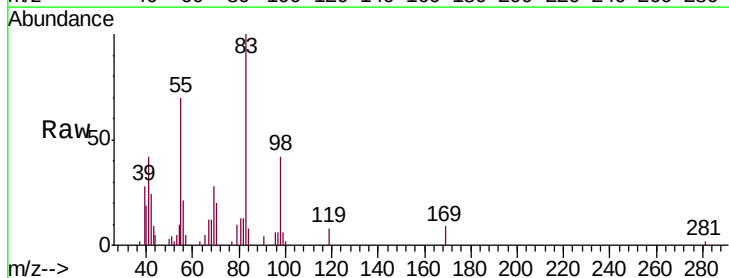
Tgt Ion: 83 Resp: 6345

Ion Ratio Lower Upper

83 100

55 81.7 59.8 89.8

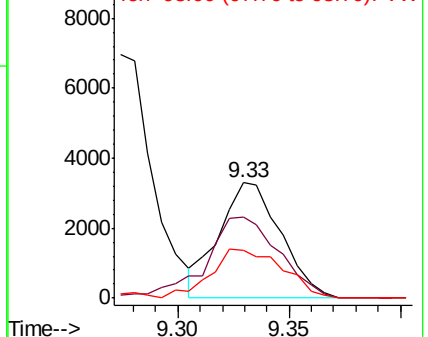
98 49.3 39.5 59.3

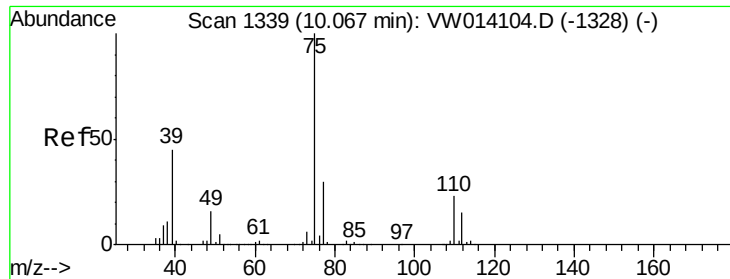


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#42

cis-1,3-Dichloropropene

Concen: 0.454 ug/L

RT: 10.04 min Scan# 1334

Delta R.T. -0.03 min

Lab File: VW014117.D

Acq: 25 Nov 2019 17:47

Instrument :

MSVOA_W

ClientSampled :

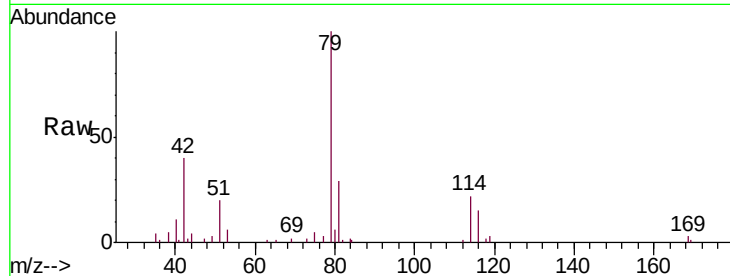
C0BM2

Tgt Ion: 75 Resp: 318

Ion Ratio Lower Upper

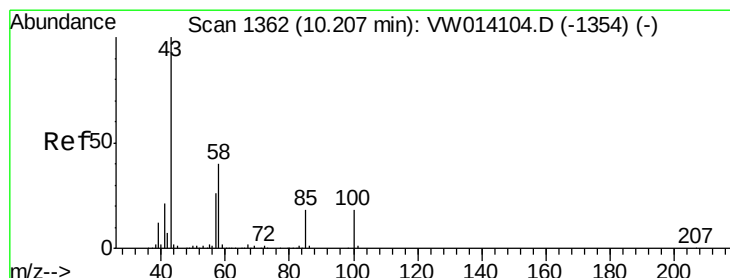
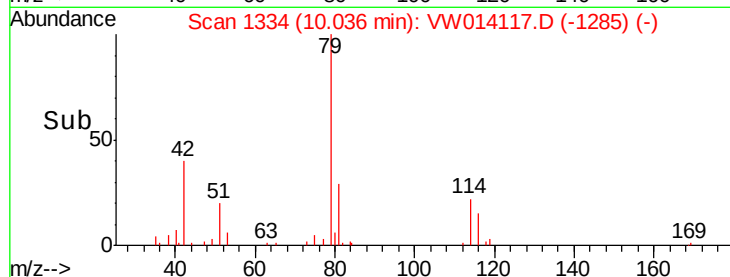
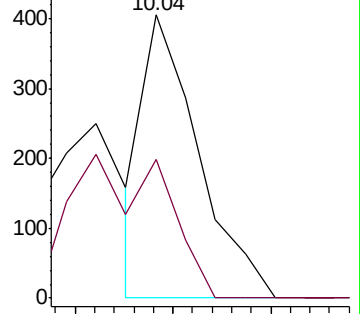
75 100

77 49.1 22.1 41.1#



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW



#43

4-Methyl-2-pentanone

Concen: 2.883 ug/L

RT: 10.20 min Scan# 1361

Delta R.T. -0.01 min

Lab File: VW014117.D

Acq: 25 Nov 2019 17:47

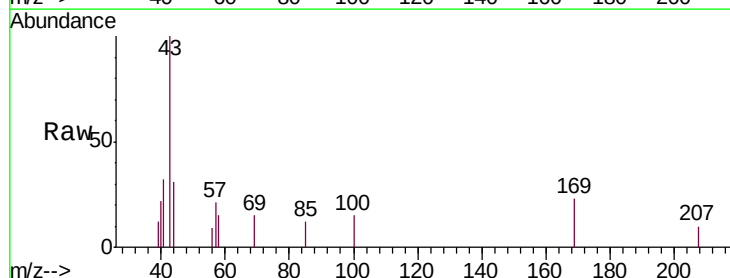
Tgt Ion: 43 Resp: 844

Ion Ratio Lower Upper

43 100

58 39.1 32.6 49.0

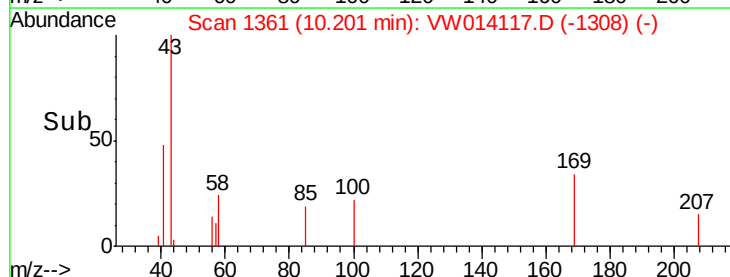
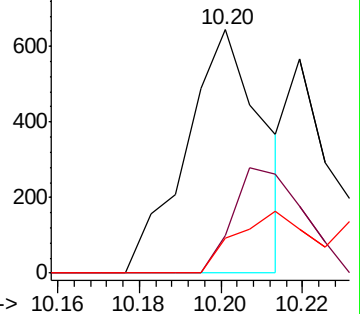
100 0.0 13.8 20.8#

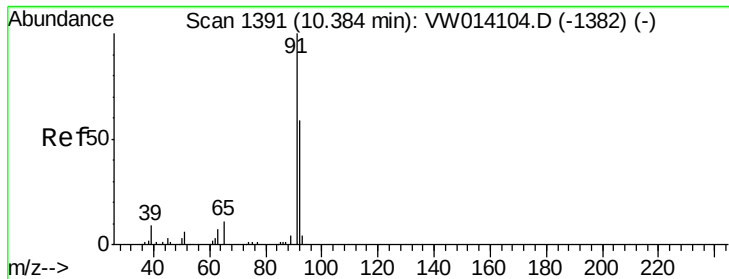


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 100.00 (99.70 to 100.70): VW





#44

Toluene

Concen: 0.678 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW014117.D

Acq: 25 Nov 2019 17:47

Instrument :

MSVOA_W

ClientSampled :

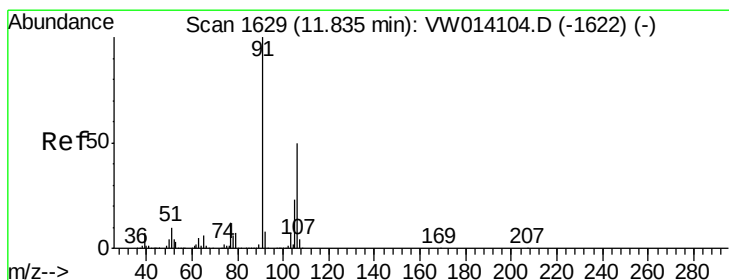
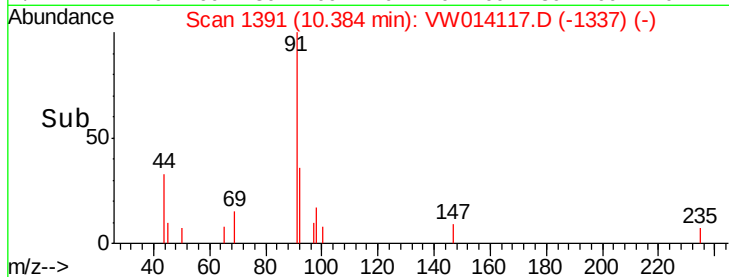
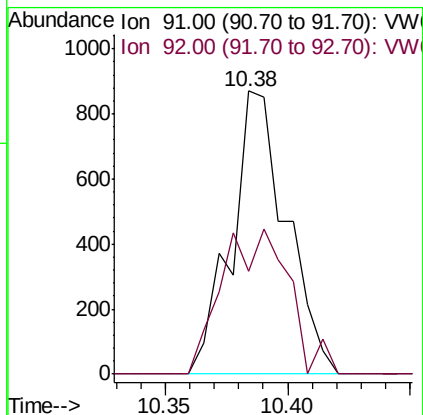
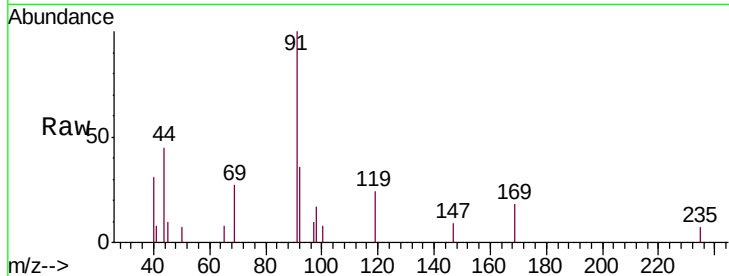
C0BM2

Tgt Ion: 91 Resp: 1362

Ion Ratio Lower Upper

91 100

92 36.2 40.7 75.7#



#54

m,p-Xylene

Concen: 0.642 ug/L

RT: 11.82 min Scan# 1627

Delta R.T. -0.01 min

Lab File: VW014117.D

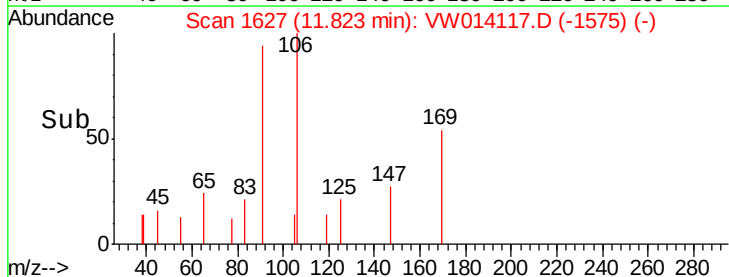
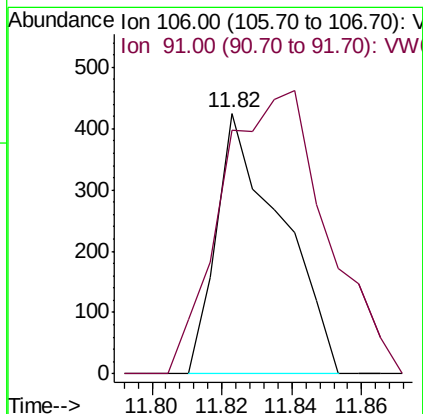
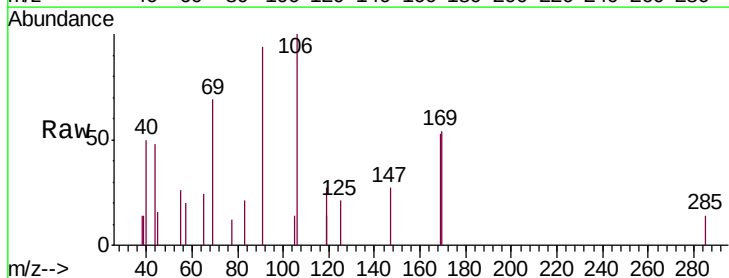
Acq: 25 Nov 2019 17:47

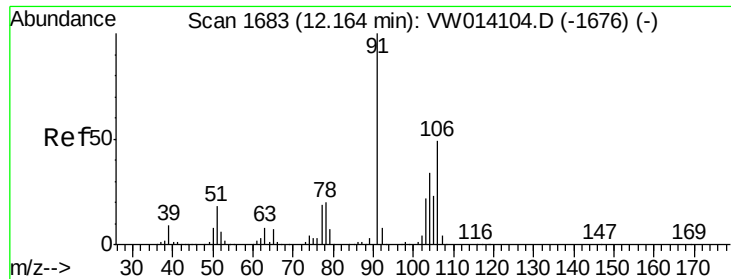
Tgt Ion: 106 Resp: 550

Ion Ratio Lower Upper

106 100

91 93.6 138.7 257.5#

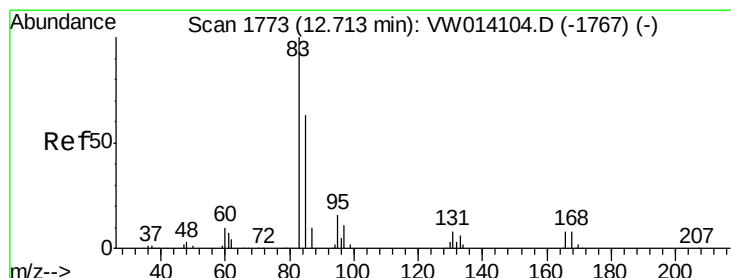
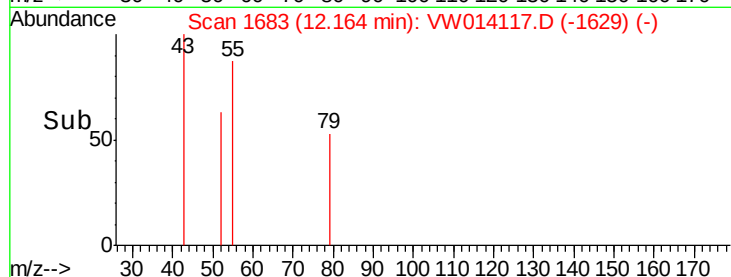
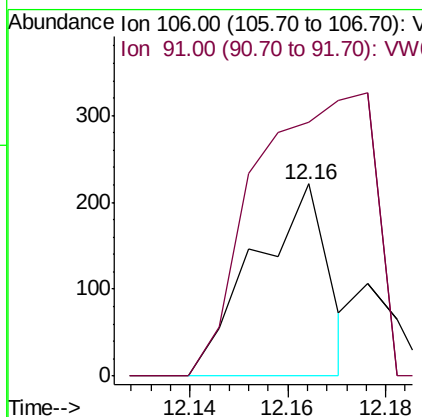
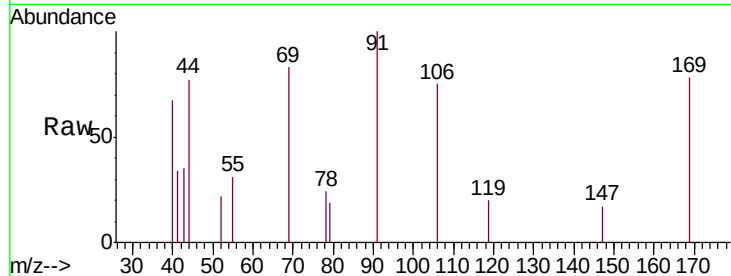




#55
o-xylene
Concen: 0.288 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW014117.D
Acq: 25 Nov 2019 17:47

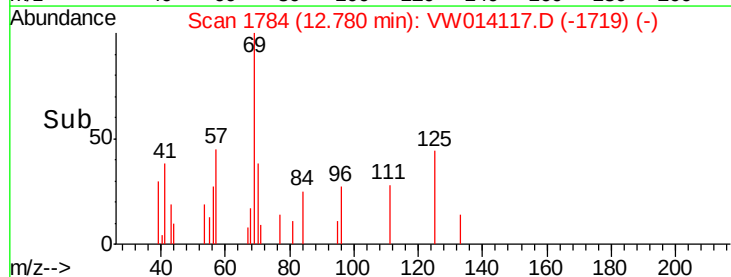
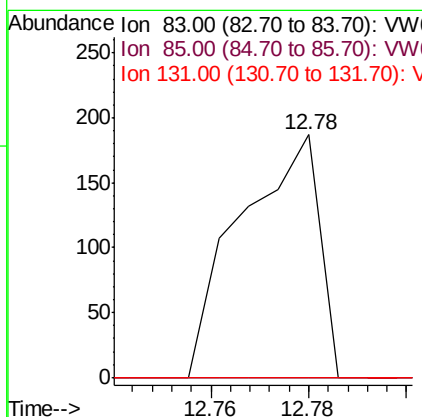
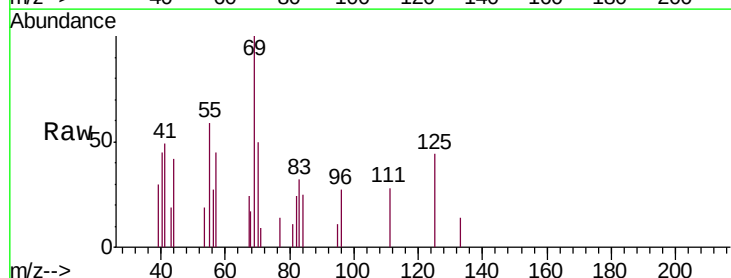
Instrument :
MSVOA_W
ClientSampleId :
C0BM2

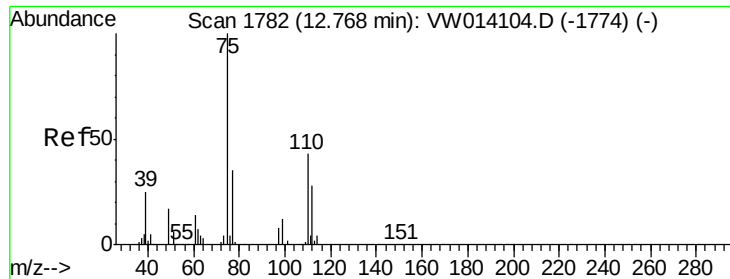
Tgt Ion: 106 Resp: 231
Ion Ratio Lower Upper
106 100
91 132.6 148.3 275.5#



#58
1,1,2,2-Tetrachloroethane
Concen: 0.550 ug/L
RT: 12.78 min Scan# 1784
Delta R.T. 0.07 min
Lab File: VW014117.D
Acq: 25 Nov 2019 17:47

Tgt Ion: 83 Resp: 209
Ion Ratio Lower Upper
83 100
85 0.0 43.7 81.1#
131 0.0 8.2 12.2#





#59

1,2,3-Trichloropropane

Concen: 1.444 ug/L

RT: 12.60 min Scan# 1755

Delta R.T. -0.16 min

Lab File: VW014117.D

Acq: 25 Nov 2019 17:47

Instrument :

MSVOA_W

ClientSampled :

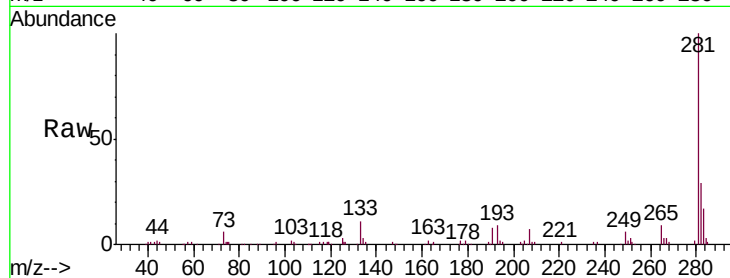
C0BM2

Tgt Ion: 75 Resp: 413

Ion Ratio Lower Upper

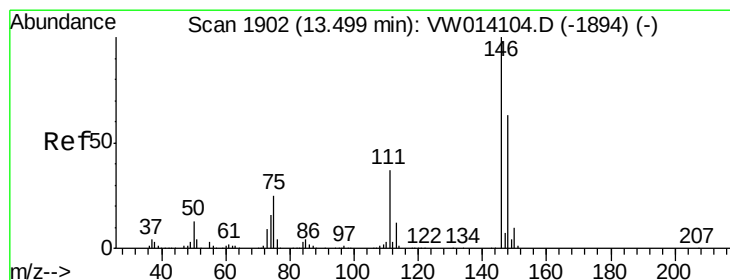
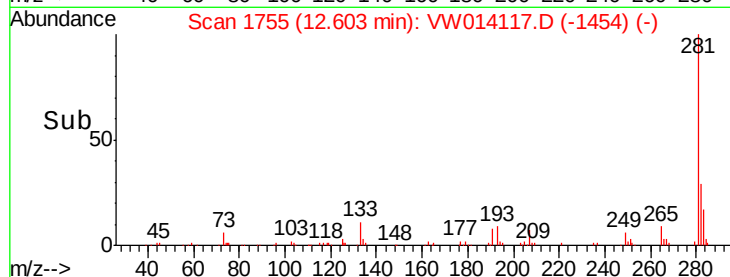
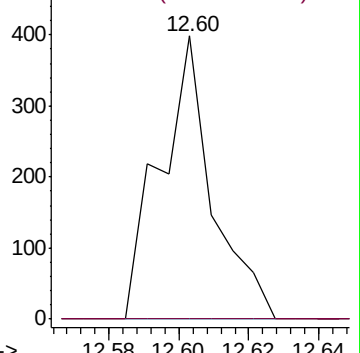
75 100

77 28.8 25.9 38.9



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW



#63

1,3-Dichlorobenzene

Concen: 0.462 ug/L

RT: 13.58 min Scan# 1916

Delta R.T. 0.09 min

Lab File: VW014117.D

Acq: 25 Nov 2019 17:47

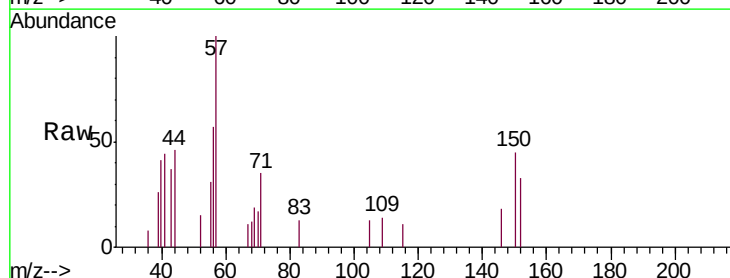
Tgt Ion: 146 Resp: 94

Ion Ratio Lower Upper

146 100

111 0.0 26.0 48.2#

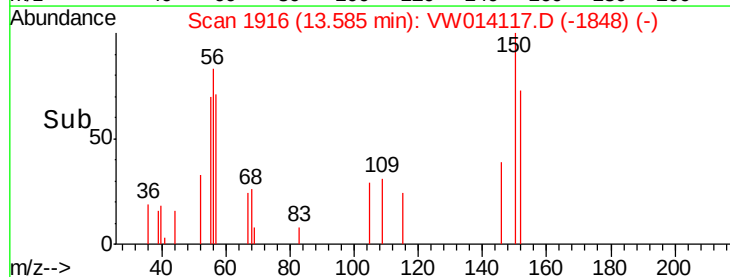
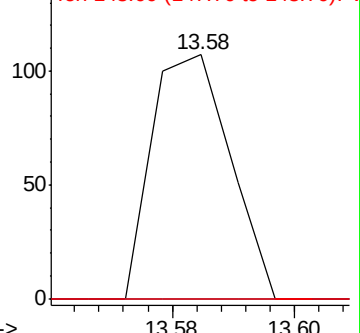
148 0.0 44.7 82.9#

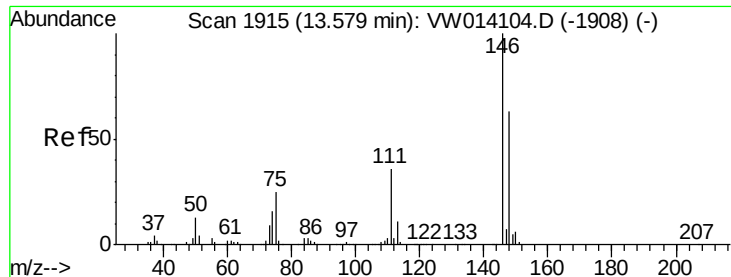


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

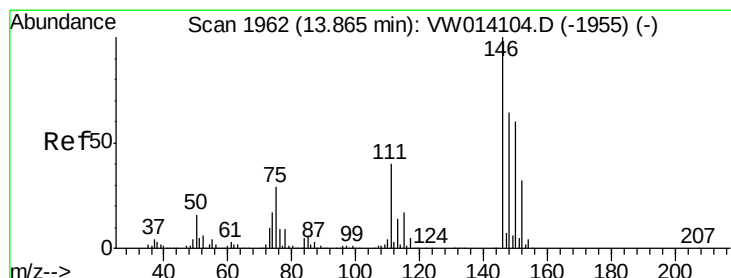
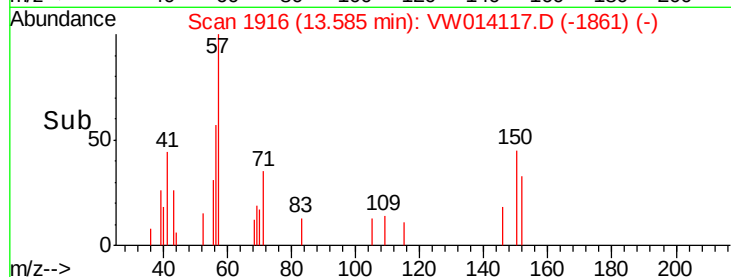
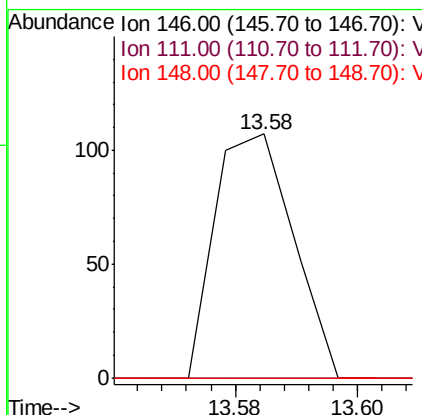
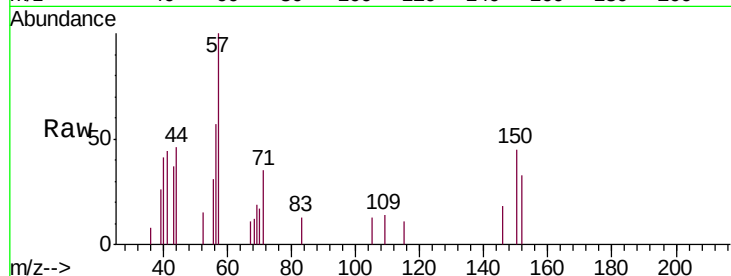




#64
1,4-Dichlorobenzene
Concen: 0.467 ug/L
RT: 13.58 min Scan# 1916
Delta R.T. 0.01 min
Lab File: VW014117.D
Acq: 25 Nov 2019 17:47

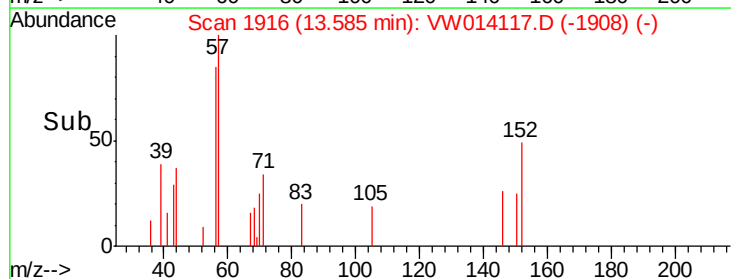
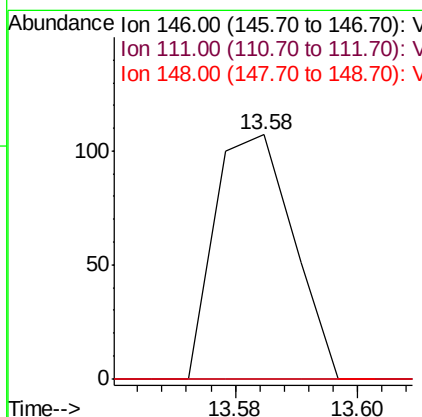
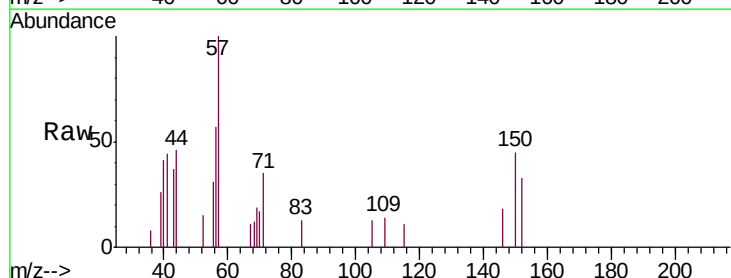
Instrument :
MSVOA_W
ClientSampled :
C0BM2

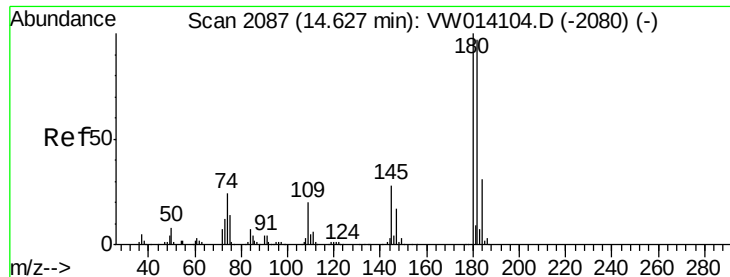
Tgt Ion:146 Resp: 94
Ion Ratio Lower Upper
146 100
111 0.0 24.9 46.3#
148 0.0 43.9 81.5#



#65
1,2-Dichlorobenzene
Concen: 0.521 ug/L
RT: 13.58 min Scan# 1916
Delta R.T. -0.28 min
Lab File: VW014117.D
Acq: 25 Nov 2019 17:47

Tgt Ion:146 Resp: 94
Ion Ratio Lower Upper
146 100
111 0.0 30.5 45.7#
148 0.0 49.4 74.2#

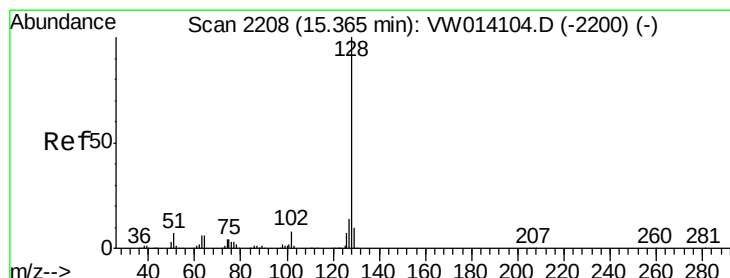
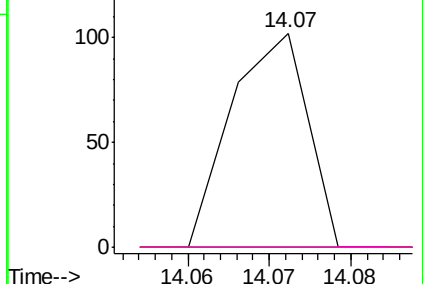
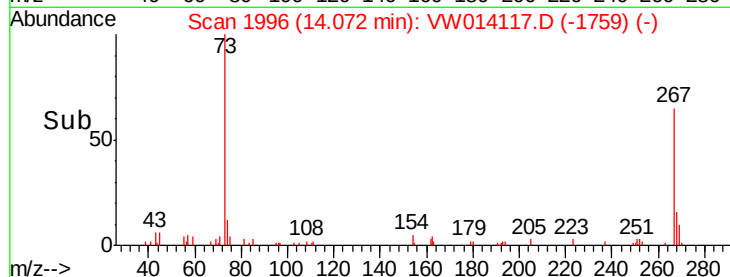
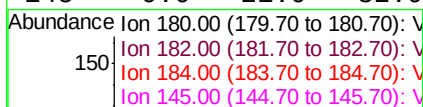
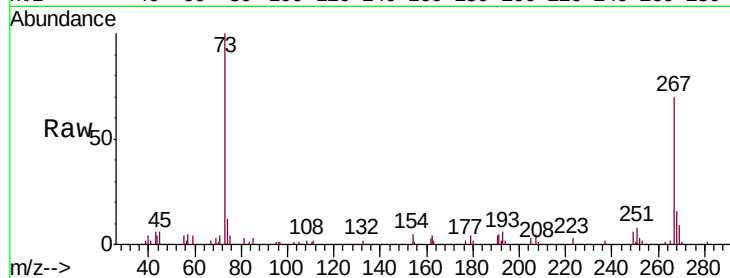




#67
 1,3,5-Trichlorobenzene
 Concen: 0.425 ug/L
 RT: 14.07 min Scan# 1996
 Delta R.T. -0.55 min
 Lab File: VW014117.D
 Acq: 25 Nov 2019 17:47

Instrument :
 MSVOA_W
 ClientSampleId :
 C0BM2

Tgt Ion:	180	Resp:	66
Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.2	114.2#
184	0.0	24.3	36.5#
145	0.0	21.9	32.9#



#69
 Naphthalene
 Concen: 1.273 ug/L
 RT: 15.44 min Scan# 2220
 Delta R.T. 0.07 min
 Lab File: VW014117.D
 Acq: 25 Nov 2019 17:47

Tgt Ion:	128	Resp:	276
Ion	Ratio	Lower	Upper
128	100		
129	0.0	8.8	13.2#
127	24.6	10.4	15.6#

