



Professor Viktor Petrik
VIP's Technologies, Inc.
St. Petersburg, Russia

Reference: Mass Retention Comparison Study of
1.00 Gram of HRCM versus 5.00 Grams of GAC

Dear Professor Petrik,

At your request, Sierra Analytical Labs, Inc. performed a pilot study to determine the mass retained by the two (2) products you submitted. The products were identified as: High Reactivity Carbon Mixture (HRCM) and Virgin Coconut Shell 4 x 6 mesh Granular Activated Carbon (GAC), the finest activated carbon for volatile organic compounds available on the American market.

The study was set-up to determine the mass retained by each product for various substances. The substances were selected prior to the study.

The results are summarized on the attached chart.

If you have any questions, please do not hesitate to contact us.

Sincerely,

Richard K. Forsyth
Laboratory Director



Substance	Mass (g) Retained by 1.00 g HRCM	Mass (g) Retained by 5.00 g GAC
Acetonitrile	32.1	1.22
Benzene	31.63	1.36
Chloroform	24.55	1.32
Crude Oil	74.51*	0.95*
Dichloromethane	32.76	1.02
Diesel	36.65	1.11
Gasoline	29.76	1.4
Hexane	27.54	1.31
Isopropyl Alcohol	22.79	1.06
Kerosene	40.16	1.12
Mineral Spirits	29.21	0.94
Naphtha	24.14	1.01
Nitric Acid	51.33	1.04
Phosphoric Acid	60.28	1.16
Sulfuric Acid	36.54	1.09
Tetrachloroethene	38.22	1.41
Toluene	34.89	0.95
Turpentine	26.68	0.89
Xylenes	38.61	0.97

HRCM - High Reactionary Carbon Mixture

GAC - Granular Activated
Carbon

* - Retained Mass estimated due to the high viscosity of the Substance.