



Sitelab Corporation
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EXTENDED DIESEL RANGE ORGANICS

Sitelab's popular CAL-042 product is used to detect petroleum hydrocarbons in the C10 to C36 diesel and oil range. This test matches well to EPA methods for TPH, EPH, DRO and others using GC-FID instrumentation. Trilogy's EDRO UV Module fitted with similar optical filters as the UVF-3100, produces accurate results over a wide range of contaminants.



SOIL SAMPLE
 TEST RESULTS

UVF-3100 UVF-TRILOGY



CONCENTRATIONS IN PPM

- Transformer, Utility Site
- Creosote, Wood Treatment Site
- Weathered Diesel, UST Site
- No. 6 Fuel Oil, Factory Site
- Air Force Base, Jet Fuel Site
- Organic Sediment, Bayou Site
- Humic Acid, Brown Coal Lignite

	254 LAMP EDRO	255 LED EDRO
Transformer, Utility Site	5,240	4,800
Creosote, Wood Treatment Site	2,100	2,000
Weathered Diesel, UST Site	1,092	1,010
No. 6 Fuel Oil, Factory Site	270	260
Air Force Base, Jet Fuel Site	244	310
Organic Sediment, Bayou Site	36	33
Humic Acid, Brown Coal Lignite	495	440

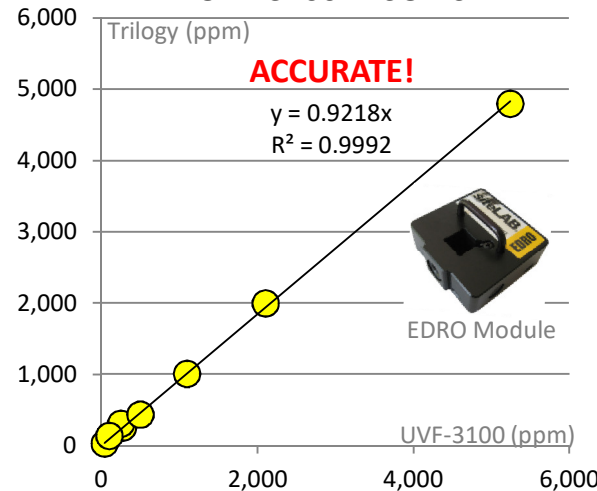
RESPONSE AT 100 PPM

- Naphthalene

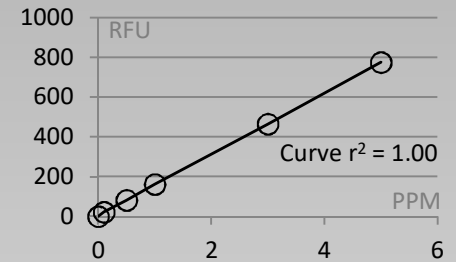
Naphthalene	95	140
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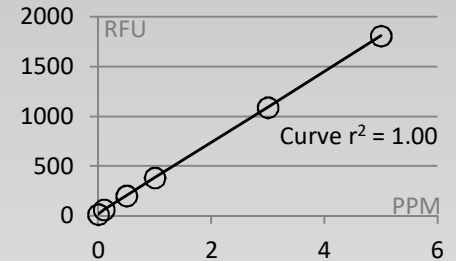
CORRELATION vs. UVF-3100 RESULTS



UVF-3100 EDRO Calibration

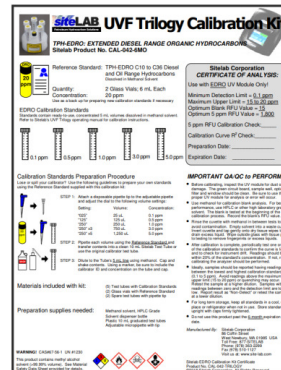


Trilogly 255 nm EDRO Calibration



Sitelab's GRO and EDRO calibration kits were used to test TPH in soil. The UVF-3100 ranked highest for accuracy, speed, ease of use, low measurement cost and method detection limits compared to other measurement devices. The same calibration kits and test procedures used then are used with Trilogy.

U.S. EPA Pub No. 600/R-01/080



Sitelab calibration kits include a Certificate of Analysis with quality controls and diagnostic tests to perform to ensure Trilogy is properly calibrated.

The standards are reusable and supplied with a 6 month expiration date. Both UVF models can display concentration or raw fluorescence values (RFU, voltage).

Calibration Standard	UVF-3100 RFU	UVF-TRILOGY RFU
Solvent Blank	0	15
0.1 ppm	22	62
0.5 ppm	82	202
1 ppm	162	383
3 ppm	465	1,090
5 ppm	775	1,810

5-Point calibration curves are linear with low detection limits at 0.1 ppm.