

**Xana-1 well (Danish North Sea Sector):
TC/TS/TOC, Rock-Eval type pyrolysis
and vitrinite reflectance data**

Jørgen A. Bojesen-Koefoed

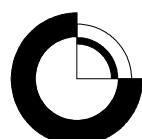
GEOLOGICAL SURVEY OF DENMARK AND GREENLAND
DANISH MINISTRY OF ENERGY, UTILITIES AND CLIMATE



G E U S

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1. Xana-1 well petroleum potential

1.1 Introduction

The present report summarizes the results of Total Carbon (TC), Total Sulphur (TS), Total Organic Carbon (TOC) and Rock-Eval type screening analysis and vitrinite reflectance analysis of a series of cutting-samples and sidewall cores (SWC) collected from the Valhall Fm. and Farsund Fm. in the Xana-1X well, Danish North Sea sector.

1.2 Samples and Methods

1.2.1 Samples and sample preparation

A total of 91 cutting-samples and 3 sidewall core samples were subjected to organic geochemical screening analysis. A total of 16 samples were analysed for vitrinite reflectance. Samples for vitrinite reflectance were picked from the samples used for screening analysis supplemented by 9 additional samples in order to cover the full penetrated succession.

The well was drilled using oil-based mud (OBM) and various unknown additives which necessitated preparative solvent extraction of all cutting samples prior to analysis. Cutting samples were washed with several batches of dichloromethane (DCM) until the cuttings appeared clean. The 0.25-4.0 mm size-fraction was recovered by sieving and exhaustively solvent extracted for 7 full days using soxhlet instrumentation and dichloromethane/methanol (93+7 vol./vol.) as solvent. Aliquots of dried extracted samples were ground to <0.25 mm for screening analysis whereas samples for vitrinite reflectance analysis were used without further treatment.

Aliquots of sidewall core samples were collected from the central parts of the cores and ground to <0.25mm for screening analysis. Sidewall cores did not appear to be affected by OBM-contamination, and analyses without going through the cleaning procedure used for cutting samples.

1.2.2 Total Carbon, Total Sulfur and Total Organic Carbon analysis

Total Carbon (TC, wt-%), Total Organic Carbon (TOC, wt%) and Total Sulphur (TS, wt%) were determined by combustion in a LECO CS-200 induction furnace. TOC was determined after elimination of carbonate-bonded carbon by prolonged HCl treatment.

1.2.3 Rock-Eval type pyrolysis

Petroleum potential was determined by Rock-Eval-type pyrolysis using a Source Rock Analyzer (SRA) instrument, manufactured by Humble Instruments and Services (presently Weatherford). The instrument was calibrated using the IFP-160000 standard and produces data similar to those obtained by using the Rock-Eval 6 instrument. Sets of one blank and one in-house control standard were run for every 10 samples to ensure instrument stability.

1.2.4 Vitrinite reflectance

Vitrinite reflectance measurements were carried out following standard procedures (Bustin et al., 1989). Analysts were all accredited and certified by the ICCP. The measurements were conducted using a Leitz Orthoplan reflected light microscope equipped with a 50x objective and the Diskus Fossil System (Hilgers Technisches Buero). The vitrinite reflectance readings were taken at 546 nm (monochromatic light). Before measurement the microscope was calibrated against a YAG 0.903% Ro standard with integrated optical zero standard.

1.3 Results and Discussion

Results are tabulated in tables 1 through 5. Plots of analytical data versus depth and various standard-plots are shown in figs 1 through 11. Pyrograms are reproduced in Appendix 1. Vitrinite reflectance histograms are shown in Appendix 2. There will be up to four histograms for each sample: one histogram showing the total measured population, one, two or three histogram(s) showing the selected population used for maturity assessment.

All samples used for organic geochemical screening were pervasively contaminated by OBM and drilling mud additives, but the cleaning procedure seems to have been effective in removing both contaminants as well as indigenous petroleum components. Hence, S1 and PI are both close to zero and a scrutiny of individual pyrograms suggests that contamination problems are negligible.

When plotted versus depth the data show the well-known pattern of the Upper Jurassic – Lower Cretaceous Farsund Formation succession of the Danish North Sea sector, including the highly prolific Bo Member source rock in the uppermost part of the analysed section (Ineson et al. 2003).

Based on Tmax, the entire Farsund Formation succession (i.e. deeper than 14190') is oil-window mature, and it seems that at depths greater than approximately 15000', Tmax becomes useless for maturity assessments, probably due to the presence of heavy bitumen-like components contributing to the S2 parameter and thus affecting the definition of Tmax.

Data on sidewall core samples are well in agreement with data from neighbouring cutting samples by yielding similar or higher values in all parameters, the difference being caused by loss of soluble matter from the cuttings samples further to the cleaning procedure. It is, however, worth noting that the Tmax-parameter of SWC samples does not seem to suffer the sample problem as observed in cutting samples, and probably provides a reliable measure of the level of thermal maturity. No explanation for this can readily be offered.

Vitrinite reflectance analysis data are open for several different interpretations, shown in tables 3 through 5, figs. 5 through 10. However, none of the selected interpretation will allow a satisfactory fit to be calculated, probably due to accelerated maturity evolution below the Valhal Formation. If instead separate fits are calculated for the Farsund Formation and the overlying succession a scenario in agreement with screening-data seems to be achievable. Hence, the oil window is entered around 12000' and the maturity evolves rapidly with depth below the Valhal Formation (fig. 11)

1.4 References

Bustin, R., Cameron, A., Grieve, D., Kalkreuth, W.D. 1989: Coal Petrology – Its principles, methods and applications. Geological Association of Canada, Short Course Notes, v. 3, Victoria, British Columbia, May 8-10, 273 p. Third Edition.

Ineson, J.R., Bojesen-Koefoed, J.A., Dybkjær, K. and Nielsen, L.H., 2003: Volgian–Ryazanian ‘hot shales’ of the Bo Member (Farsund Formation) in the Danish Central Graben, North Sea: stratigraphy, facies and geochemistry, Geological Survey of Denmark and Greenland Bulletin 1, 403–436

Table 1. (following three pages) Screening data, Xana-1X well. TOC: Total Organic Carbon. TC: Total Carbon. TS: Total Sulphur. Tmax: Rock-Eval Tmax. S1: Rock-Eval S1. S2: Rock-Eval S2. HI: Hydrogen Index. PI: Production Index. PC: Pyrolysable Carbon (=Carbon bound in S1+S2).

Lab-#	Depth, base (feet)	TOC (wt %)	TC (wt %)	TS (wt %)	Tmax (°C)	S1 (mg HC/g rock)	S2 (mg HC/g rock)	HI	PI	PC
26143	13890	0,26	1,40	1,29	382	0,00	0,27	104	0	0,02
26144	13920	0,34	3,41	1,04	391	0,01	0,66	194	0,01	0,06
26145	13950	0,48	3,54	0,59	396	0,01	0,69	145	0,01	0,06
26146	13980	0,54	3,14	0,77	396	0,02	0,98	181	0,02	0,08
26147	14010	0,40	3,69	0,92	398	0,01	0,78	193	0,01	0,07
26148	14040	0,54	4,88	1,28	403	0,02	0,89	163	0,02	0,08
26149	14070	0,62	2,76	1,13	427	0,02	1,42	229	0,01	0,12
26150	14100	0,47	4,25	1,08	402	0,02	0,98	207	0,02	0,08
26151	14130	1,11	4,55	2,43	441	0,02	2,56	231	0,01	0,21
26152	14160	0,69	5,62	1,24	438	0,01	1,76	255	0,01	0,15
26153	14190	3,19	5,18	1,92	446	0,02	13,97	438	0,00	1,16
26154	14220	3,03	4,32	3,26	446	0,02	12,12	401	0,00	1,01
26155	14250	3,07	4,41	3,20	446	0,01	11,44	373	0,00	0,95
26156	14280	3,23	4,73	2,50	445	0,02	11,74	363	0,00	0,98
26157	14286	3,39	4,44	2,87	446	0,03	11,6	342	0,00	0,97
26158	14330	2,99	4,53	2,84	446	0,03	10,74	359	0,00	0,89
26159	14360	2,50	3,95	2,83	447	0,02	6,95	278	0,00	0,58
26160	14390	2,20	3,39	2,08	447	0,01	4,66	211	0,00	0,39
26161	14420	2,44	3,51	1,96	446	0,01	4,89	200	0,00	0,41
26162	14450	2,51	3,62	2,05	446	0,02	5,58	223	0,00	0,46
26163	14470	1,92	3,15	2,61	446	0,02	3,63	189	0,01	0,30
26164	14510	1,68	3,57	4,67	444	0,02	3,3	196	0,01	0,28
26165	14540	1,73	3,33	4,26	444	0,02	3,1	179	0,01	0,26
26166	14570	0,96	5,22	2,31	439	0,01	1,81	189	0,01	0,15
26167	14600	1,26	2,98	2,27	440	0,01	2,23	177	0,00	0,19
26168	14630	1,16	3,20	2,70	437	0,03	2,23	192	0,01	0,19
26169	14660	1,26	3,01	2,17	441	0,05	2,35	187	0,02	0,20
26170	14690	1,32	3,21	1,95	443	0,08	2,19	166	0,04	0,19
26171	14720	1,53	3,33	2,79	442	0,01	2,81	183	0,00	0,23

Lab-#	Depth, base (feet)	TOC (wt %)	TC (wt %)	TS (wt %)	Tmax (°C)	S1 (mg HC/g rock)	S2 (mg HC/g rock)	HI	PI	PC
26172	14750	1,43	3,47	1,73	444	0,04	2,51	176	0,02	0,21
26173	14780	1,55	3,75	1,48	444	0,01	2,48	160	0,00	0,21
26174	14810	1,31	3,50	1,68	443	0,01	1,97	150	0,01	0,16
26175	14840	1,19	3,91	1,44	443	0,00	1,24	104	0	0,10
26176	14870	1,34	3,64	1,55	443	0,01	1,80	134	0,01	0,15
26177	14900	0,99	5,38	1,54	440	0,02	1,41	142	0,01	0,12
26178	14930	1,88	3,14	3,63	436	0,01	1,88	100	0,01	0,16
26179	14960	2,05	3,48	4,13	439	0,02	2,92	142	0,01	0,24
26180	14990	2,14	3,51	3,55	439	0,02	2,76	129	0,01	0,23
26181	15020	2,26	3,88	5,13	435	0,02	2,68	118	0,01	0,22
26182	15050	2,07	3,22	4,29	436	0,02	2,24	108	0,01	0,19
26183	15080	2,21	3,73	4,10	438	0,02	2,34	106	0,01	0,20
26184	15110	2,32	3,85	5,42	435	0,02	2,09	90	0,01	0,18
26185	15140	2,03	3,27	4,56	436	0,01	1,76	87	0,01	0,15
26186	15200	1,05	4,13	2,27	439	0,00	0,91	87	0	0,08
26187	15460	1,94	3,61	5,26	428	0,05	1,77	91	0,03	0,15
26188	15480	1,98	4,00	3,67	433	0,05	2,19	111	0,02	0,19
26189	15500	2,03	4,10	4,29	434	0,03	1,79	88	0,02	0,15
26190	15520	2,26	3,73	5,34	428	0,04	2,08	92	0,02	0,18
26191	15540	2,05	3,44	4,50	430	0,05	1,96	96	0,02	0,17
26192	15560	2,40	3,74	5,10	435	0,05	2,63	110	0,02	0,22
26193	15600	1,77	3,16	3,78	438	0,03	2,11	119	0,01	0,18
26194	15620	1,32	3,56	2,91	440	0,14	1,60	121	0,08	0,14
26195	15700	2,12	3,60	4,39	434	0,05	2,52	119	0,02	0,21
26196	15720	1,33	2,57	2,72	435	0,04	2,31	174	0,02	0,20
26197	15920	1,84	2,74	3,03	440	0,04	2,43	132	0,02	0,21
26198	15940	0,83	1,59	1,09	435	0,02	1,67	202	0,01	0,14
26199	15980	1,29	2,42	2,69	434	0,03	1,61	125	0,02	0,14
26200	16000	1,27	2,94	1,95	440	0,05	2,26	178	0,02	0,19
26201	16020	0,98	2,66	1,41	437	0,03	1,83	187	0,02	0,15
26202	16060	2,07	3,05	3,86	438	0,03	1,96	95	0,02	0,17
26203	16120	0,36	1,61	0,71	431	0,00	0,54	150	0	0,04
26204	16200	2,02	3,29	2,58	440	0,03	2,31	114	0,01	0,19
26205	16220	2,17	3,55	2,71	440	0,04	2,26	104	0,02	0,19
26206	16240	2,82	4,10	3,98	443	0,04	2,85	101	0,01	0,24
26207	16260	1,48	2,98	2,19	437	0,02	1,77	120	0,01	0,15
26208	16280	1,28	2,85	2,92	427	0,03	1,51	118	0,02	0,13
26209	16320	1,40	2,88	2,42	431	0,02	1,54	110	0,01	0,13
26210	16340	1,62	2,86	2,36	437	0,03	1,98	122	0,01	0,17
26211	16360	1,46	2,95	2,37	435	0,03	1,75	120	0,02	0,15
26212	16380	1,55	3,11	2,60	436	0,03	1,78	115	0,02	0,15
26213	16400	1,68	3,34	2,81	436	0,03	2,04	121	0,01	0,17
26214	16420	1,58	3,12	2,98	437	0,03	2,03	128	0,01	0,17
26215	16440	1,50	2,80	2,52	435	0,03	1,58	105	0,02	0,13
26216	16490	0,84	1,56	1,74	429	0,01	0,98	116	0,01	0,08
26217	16510	1,48	2,58	3,60	427	0,02	1,31	89	0,02	0,11
26218	16530	1,28	2,37	2,59	432	0,03	1,59	124	0,02	0,13
26219	16550	0,71	2,59	1,53	432	0,02	0,94	132	0,02	0,08
26220	16590	1,72	2,63	3,83	428	0,04	1,87	109	0,02	0,16

Lab-#	Depth, base (feet)	TOC (wt %)	TC (wt %)	TS (wt %)	Tmax (°C)	S1 (mg HC/g rock)	S2 (mg HC/g rock)	HI	PI	PC
26221	16610	1,46	2,70	3,23	428	0,05	2,35	161	0,02	0,20
26222	16630	1,44	2,50	3,77	417	0,04	1,41	98	0,03	0,12
26223	16650	1,37	2,47	4,15	422	0,05	1,93	141	0,03	0,16
26224	16670	1,19	3,47	3,93	423	0,04	1,27	106	0,03	0,11
26225	16690	1,49	2,51	4,61	421	0,04	1,63	109	0,02	0,14
26226	16710	2,43	3,32	6,59	418	0,06	2,12	87	0,03	0,18
26227	16730	1,50	6,12	4,12	422	0,04	1,35	90	0,03	0,12
26228	16750	1,48	2,22	2,97	438	0,04	2,33	157	0,02	0,20
26229	16770	1,30	2,92	3,23	425	0,04	1,69	130	0,02	0,14
26230	16790	1,81	2,58	3,09	434	0,05	2,25	124	0,02	0,19
26231	16801,5	1,72	3,91	3,28	438	0,04	1,79	104	0,02	0,15
26232	16810	1,66	2,52	3,37	434	0,05	2,32	140	0,02	0,20
26233	16813,5	1,74	2,63	3,42	435	0,05	2,51	144	0,02	0,21
26268	15109	2,62	4,39	4,49	442	4,23	4,28	163	0,50	0,71
26269	15560	2,48	3,98	4,58	446	3,78	4,43	179	0,46	0,68
26270	15830	2,12	2,69	4,05	451	1,00	2,40	113	0,29	0,28

Sidewall core samples		
Lab-#	Depth, base (feet)	Sample-ID
26268	15109	2F-1R
26269	15560	2F-6R
26270	15830	2I-4R

Lab-#	Depth, base (feet)	TOC (wt %)	TC (wt %)	TS (wt %)	Tmax (°C)	S1 (mg HC/g rock)	S2 (mg HC/g rock)	HI	PI	PC
26268	15109	2,62	4,39	4,49	442	4,23	4,28	163	0,50	0,71
26269	15560	2,48	3,98	4,58	446	3,78	4,43	179	0,46	0,68
26270	15830	2,12	2,69	4,05	451	1,00	2,40	113	0,29	0,28

Table 2. Screening data, Xana-1X well, SWC samples. TOC: Total Organic Carbon. TC: Total Carbon. TS: Total Sulphur. Tmax: Rock-Eval Tmax. S1: Rock-Eval S1. S2: Rock-Eval S2. HI: Hydrogen Index. PI: Production Index. PC: Pyrolysable Carbon (=Carbon bound in S1+S2).

Xana-1X								
Sample	Depth (feet)	Ro, total (%)	n	sd	Ro, selected population (%)	n	sd	Comment
2015010-26238	3170	0,346	72	0,116	0,281	51	0,046	
2015010-26239	4000	0,409	62	0,156	0,314	43	0,055	
2015010-26240	5000	0,373	61	0,132	0,312	47	0,061	
2015010-26241	6000	0,387	74	0,086	0,361	65	0,052	
2015010-26255	7080	0,386	64	0,097	0,360	57	0,057	
2015010-26256	8000	0,396	73	0,070	0,388	71	0,054	
2015010-26257	9000	0,440	30	0,091	0,413	26	0,065	
2015010-26258	10110	0,489	42	0,116	0,429	30	0,063	
2015010-26148	14040	0,581	39	0,145	0,450	18	0,046	slightly suppressed?
2015010-26157	14286	0,634	31	0,125	0,530	15	0,056	
2015010-26173	14780	0,605	53	0,090	0,549	34	0,051	
2015010-26192	15560	0,618	43	0,114	0,559	31	0,061	
2015010-26195	15700	0,633	38	0,109	0,590	31	0,062	
2015010-26206	16240	0,655	47	0,104	0,594	32	0,047	
2015010-26259	16310	0,657	31	0,113	0,602	23	0,066	
2015010-26221	16610	0,657	29	0,078	0,642	27	0,055	

Table 3. Vitrinite reflectance data

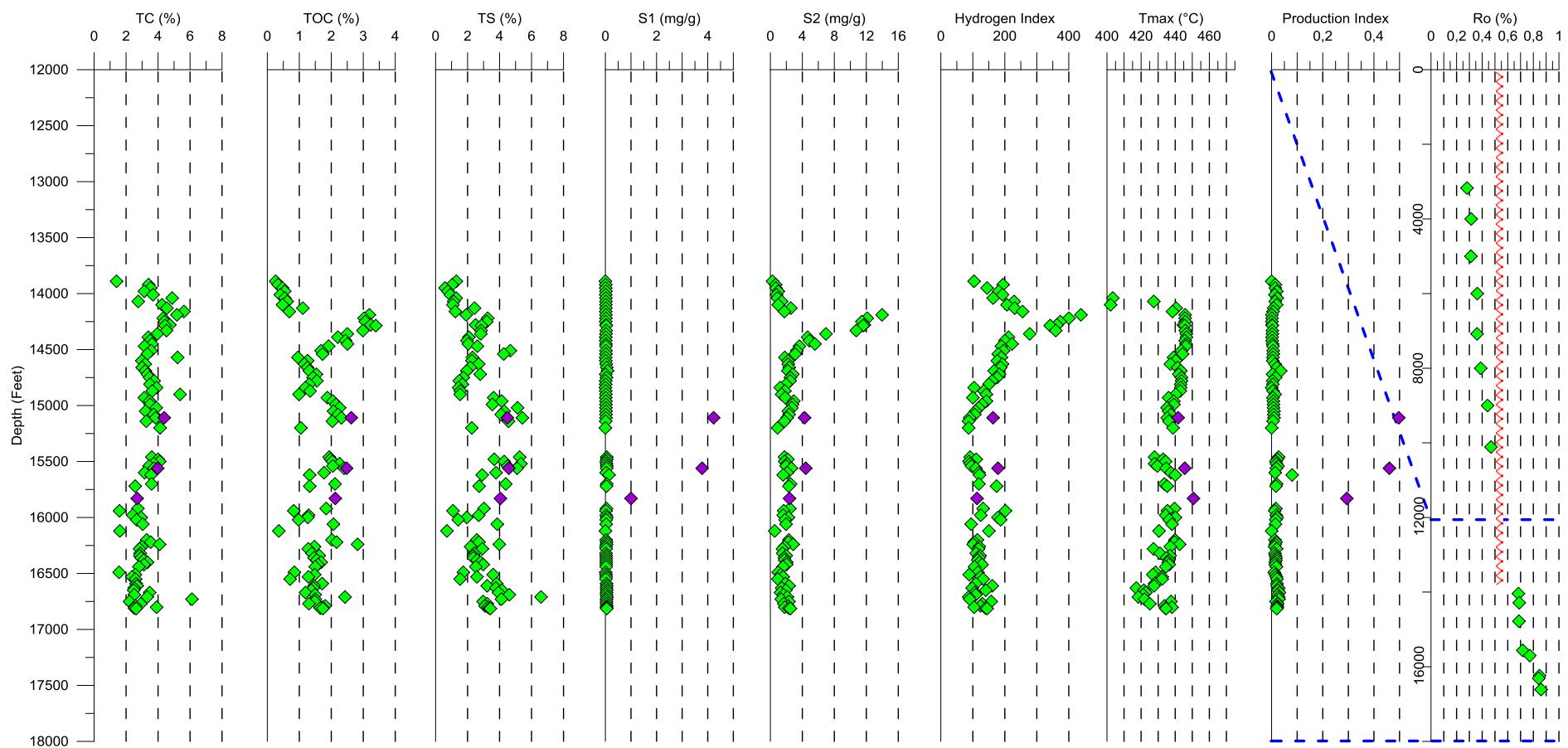
Xana-1X								
Sample	Depth (feet)	Ro, total (%)	n	sd	Ro, selected population (%)	n	sd	Comment
2015010-26238	3170	0,346	72	0,116	0,281	51	0,046	
2015010-26239	4000	0,409	62	0,156	0,314	43	0,055	
2015010-26240	5000	0,373	61	0,132	0,312	47	0,061	
2015010-26241	6000	0,387	74	0,086	0,361	65	0,052	
2015010-26255	7080	0,386	64	0,097	0,360	57	0,057	
2015010-26256	8000	0,396	73	0,070	0,388	71	0,054	
2015010-26257	9000	0,440	30	0,091	0,442	19	0,052	Alt. pop. 1
2015010-26258	10110	0,489	42	0,116	0,469	19	0,039	Alt. pop. 1
2015010-26148	14040	0,581	39	0,145	0,569	9	0,027	Alt. pop. 1
2015010-26157	14286	0,634	31	0,125	0,550	12	0,044	Alt. pop. 1
2015010-26173	14780	0,605	53	0,090	0,552	33	0,049	Alt. pop. 1
2015010-26192	15560	0,618	43	0,114	0,717	10	0,036	Alt. pop. 1
2015010-26195	15700	0,633	38	0,109	0,772	6	0,021	Alt. pop. 1
2015010-26206	16240	0,655	47	0,104	0,847	7	0,039	Alt. pop. 1
2015010-26259	16310	0,657	31	0,113	0,842	5	0,042	Alt. pop. 1
2015010-26221	16610	0,657	29	0,078	0,860	2	0,045	Alt. pop. 1

Table 4. Vitrinite reflectance data, altrernative populations 1

Xana-1X		Sample	Depth (feet)	Ro, total (%)	n	sd	Ro, selected population (%)	n	sd	Comment
2015010-26238	3170	0,346	72	0,116	0,281	51	0,046			
2015010-26239	4000	0,409	62	0,156	0,314	43	0,055			
2015010-26240	5000	0,373	61	0,132	0,312	47	0,061			
2015010-26241	6000	0,387	74	0,086	0,361	65	0,052			
2015010-26255	7080	0,386	64	0,097	0,360	57	0,057			
2015010-26256	8000	0,396	73	0,070	0,388	71	0,054			
2015010-26257	9000	0,440	30	0,091	0,442	19	0,052	Alt. pop. 1		
2015010-26258	10110	0,489	42	0,116	0,469	19	0,039	Alt. pop. 1		
2015010-26148	14040	0,581	39	0,145	0,683	8	0,038	Alt. pop. 2		
2015010-26157	14286	0,634	31	0,125	0,690	14	0,029	Alt. pop. 2		
2015010-26173	14780	0,605	53	0,090	0,687	22	0,047	Alt. pop. 2		
2015010-26192	15560	0,618	43	0,114	0,717	10	0,036	Alt. pop. 1		
2015010-26195	15700	0,633	38	0,109	0,772	6	0,021	Alt. pop. 1		
2015010-26206	16240	0,655	47	0,104	0,847	7	0,039	Alt. pop. 1		
2015010-26259	16310	0,657	31	0,113	0,842	5	0,042	Alt. pop. 1		
2015010-26221	16610	0,657	29	0,078	0,860	2	0,045	Alt. pop. 1		

Table 5. Vitrinite reflectance data, alternative populations 2

Figure 1. (following page) Data versus depth. Green symbols: solvent-extracted cuttings. Purple symbols: SWC samples



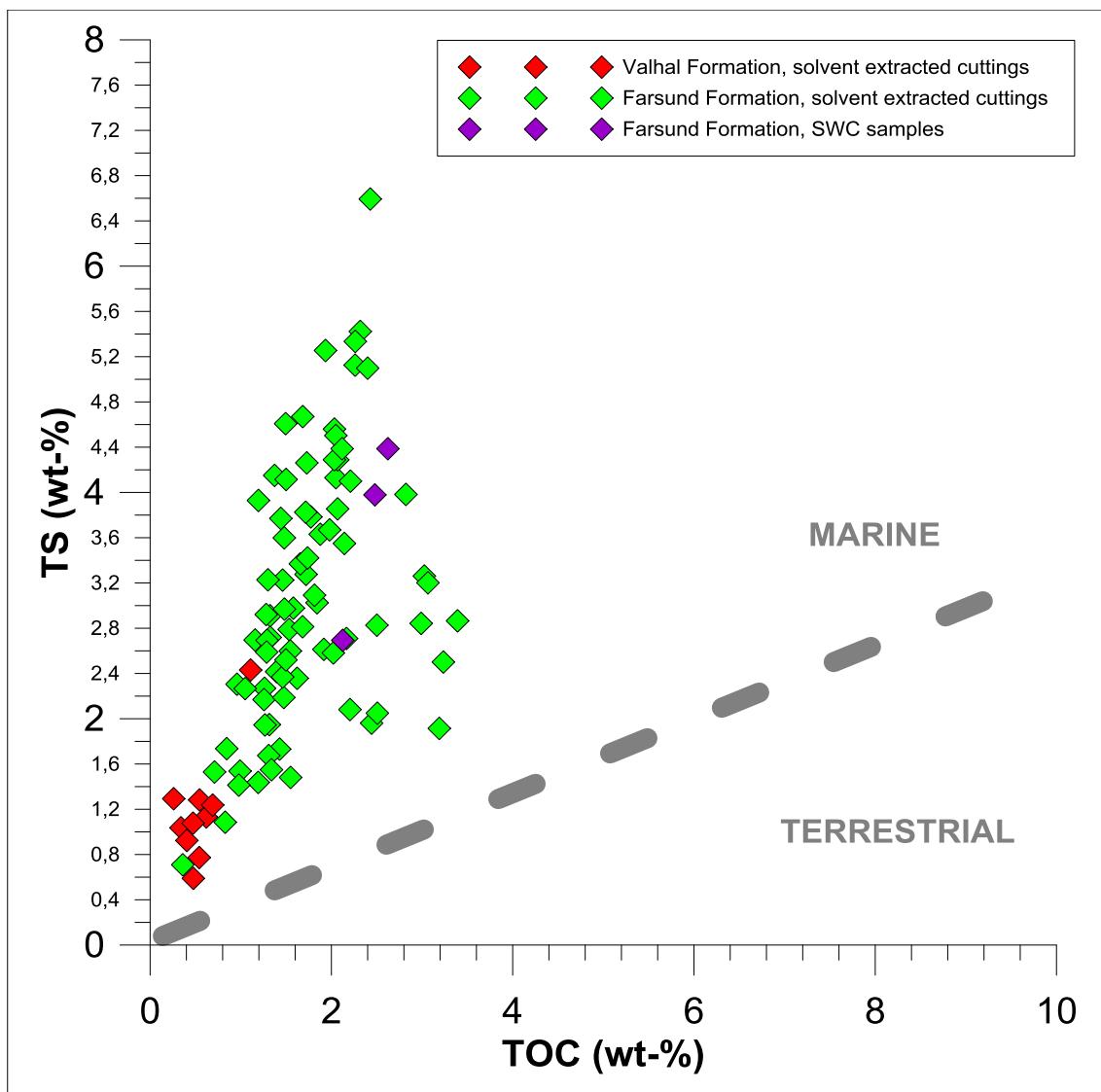


Figure 2. TOC versus TS.

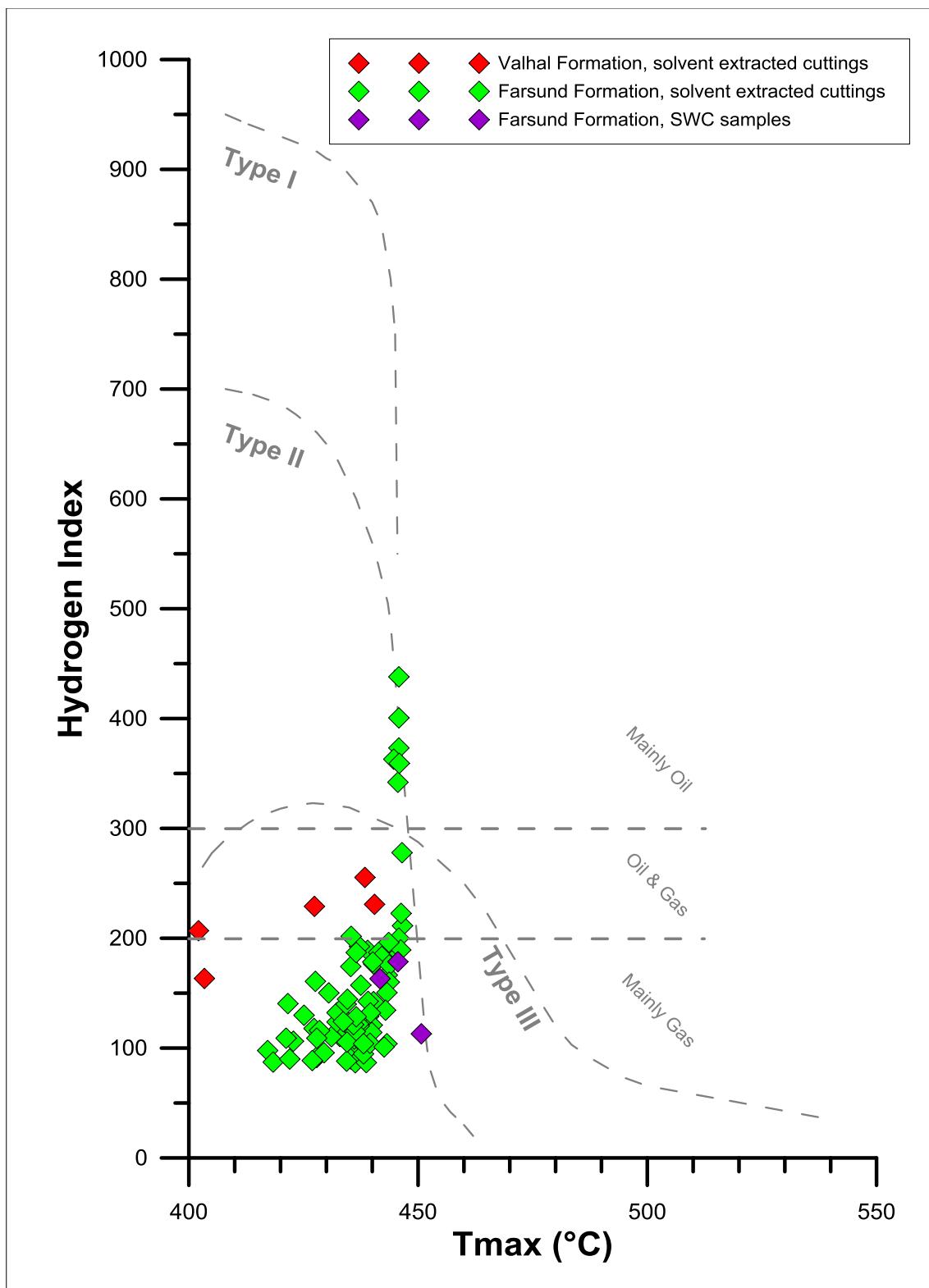


Figure 3. Tmax versus Hydrogen Index.

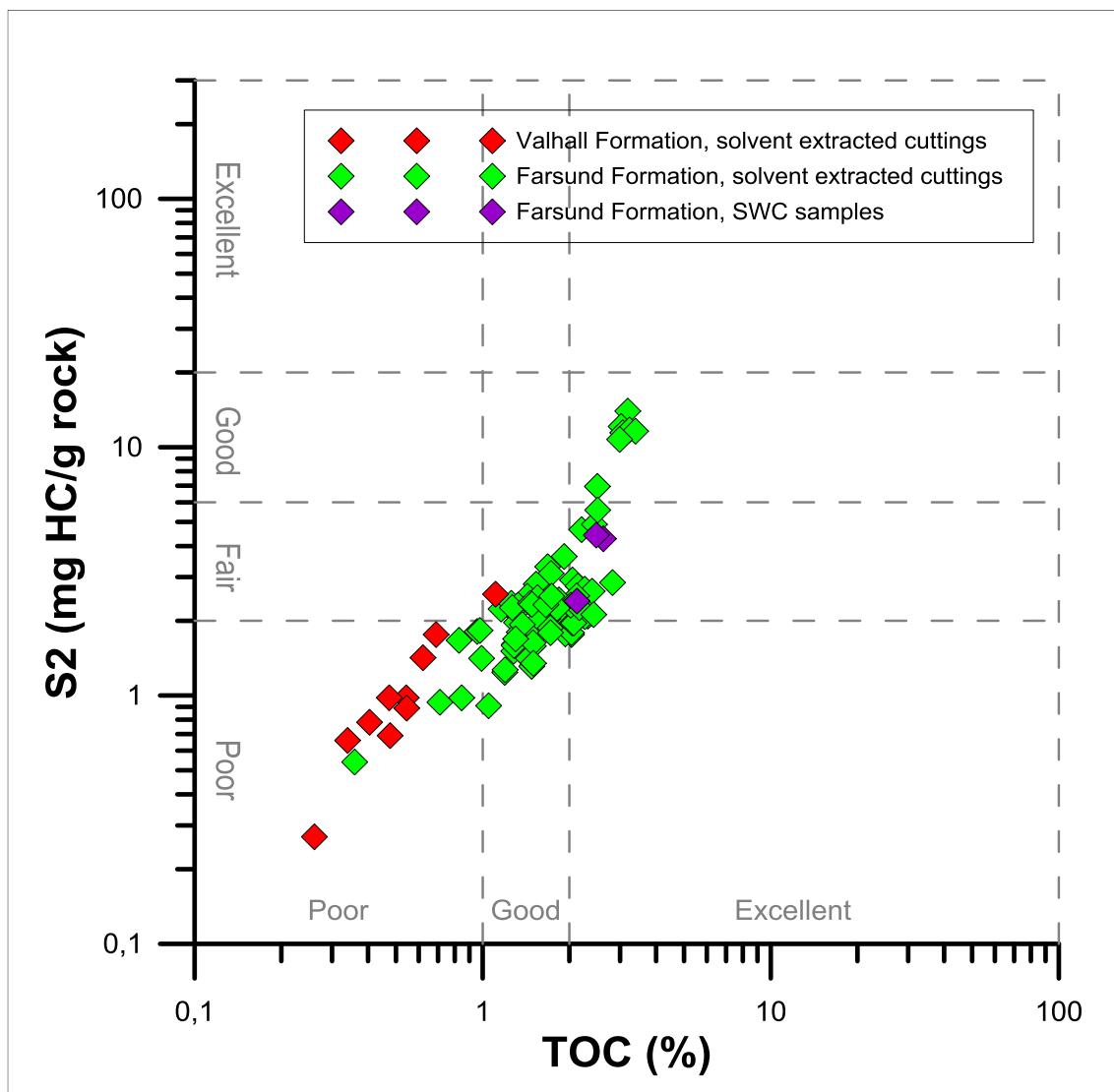


Figure 4. TOC versus S2.

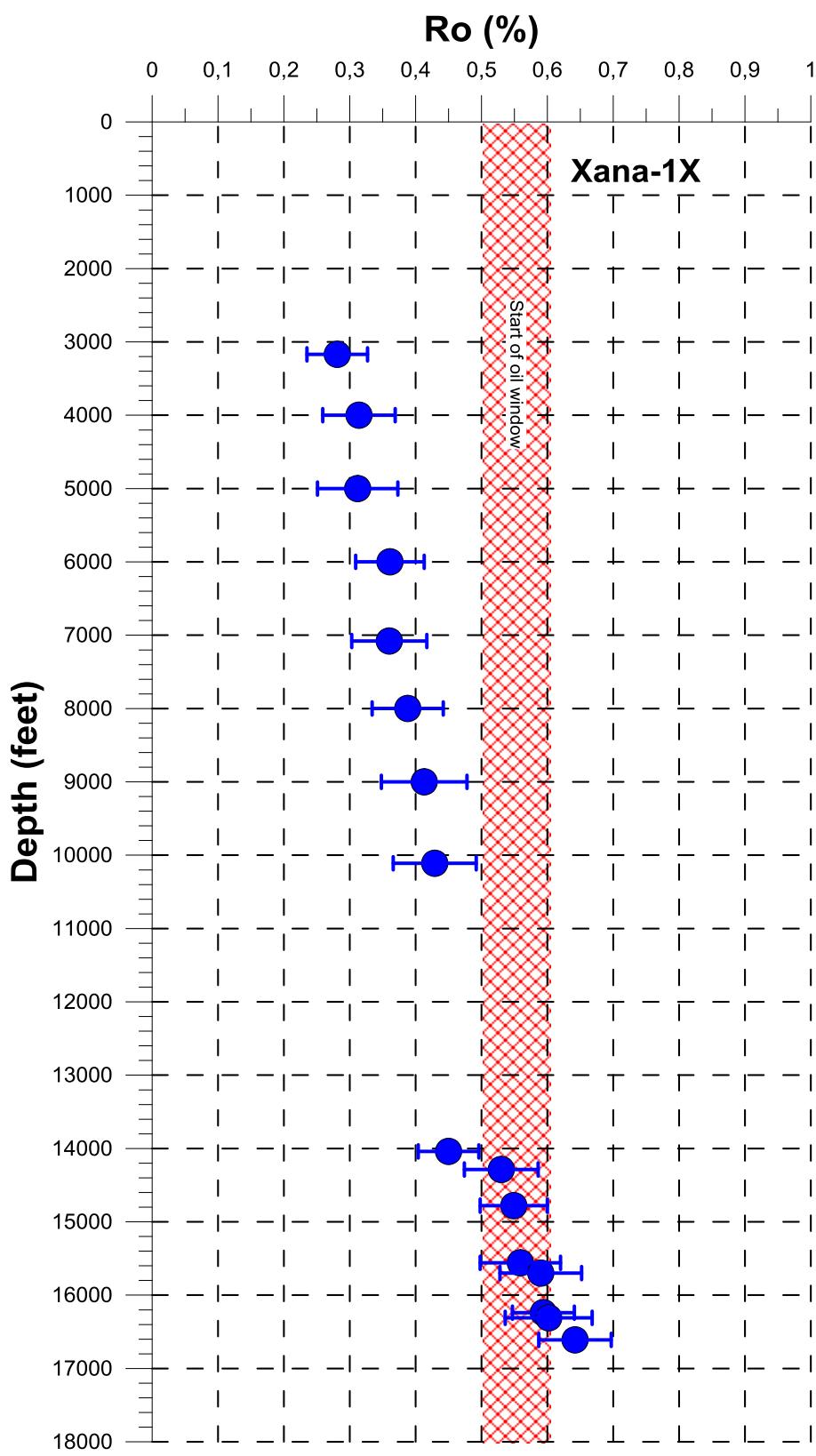


Figure 5. Vitrinite reflectance data, selected populations

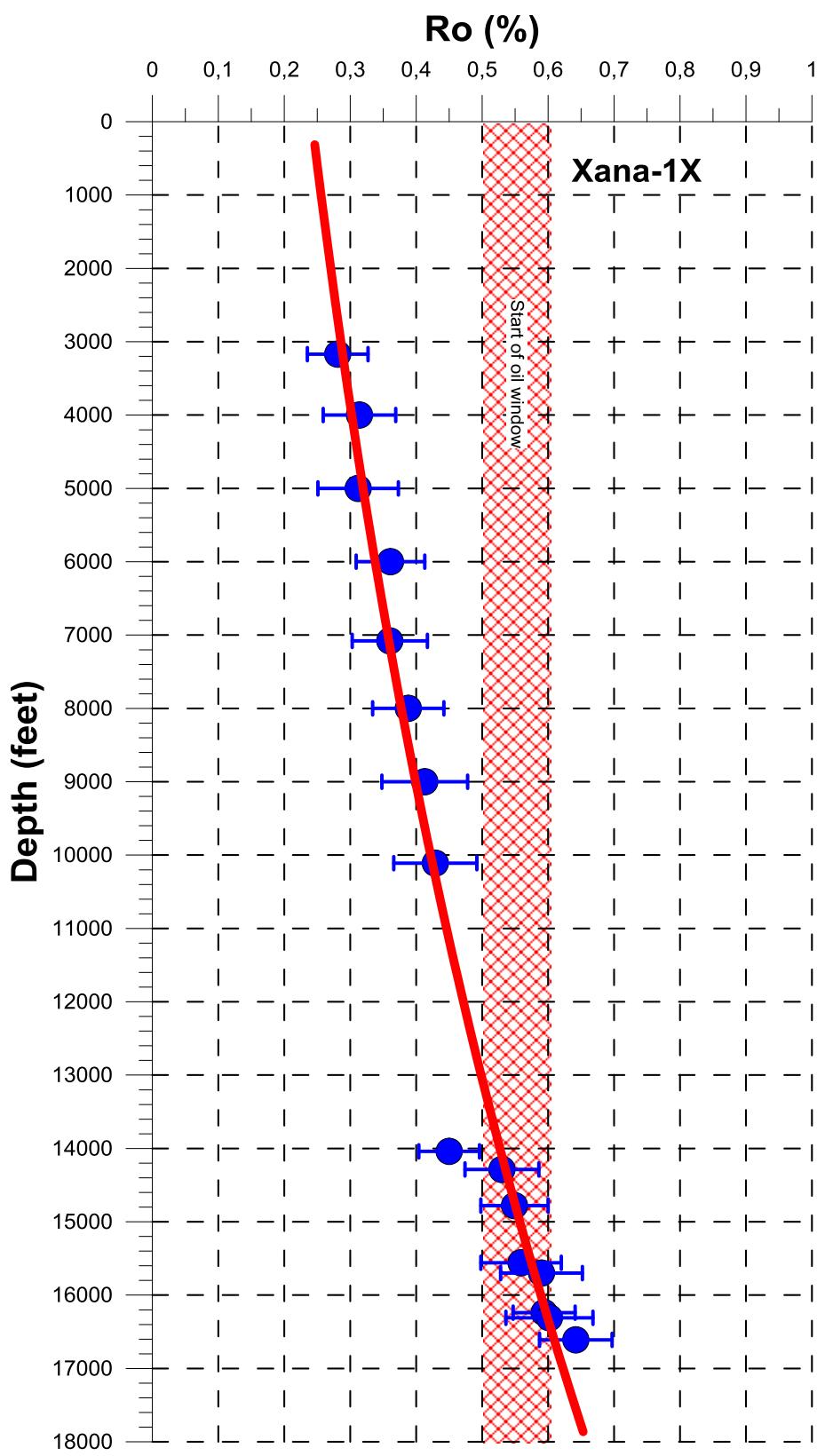


Figure 6. Vitrinite reflectance data, selected populations, including trendline.

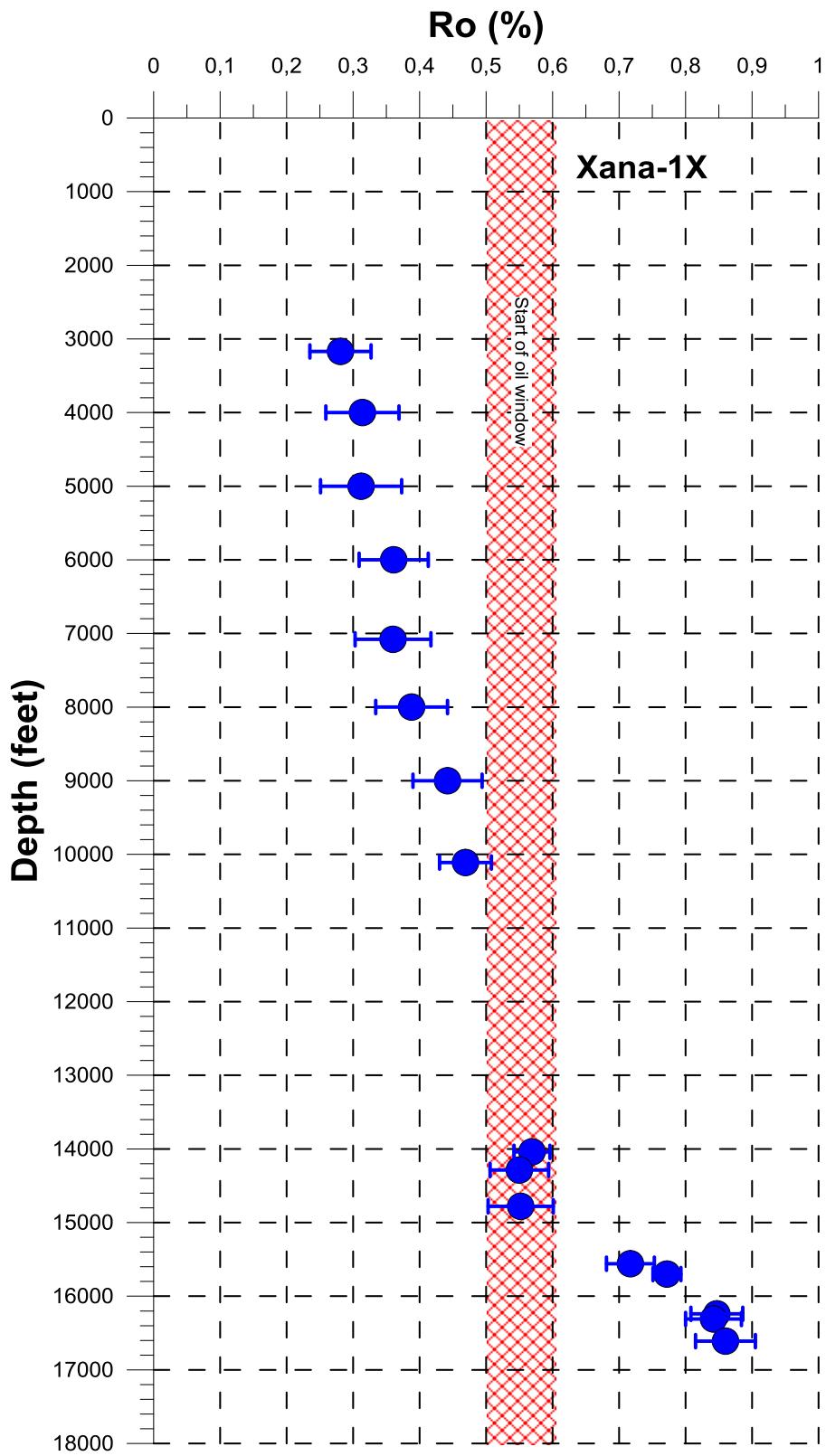


Figure 7. Vitrinite reflectance data, selected populations, alternative 1

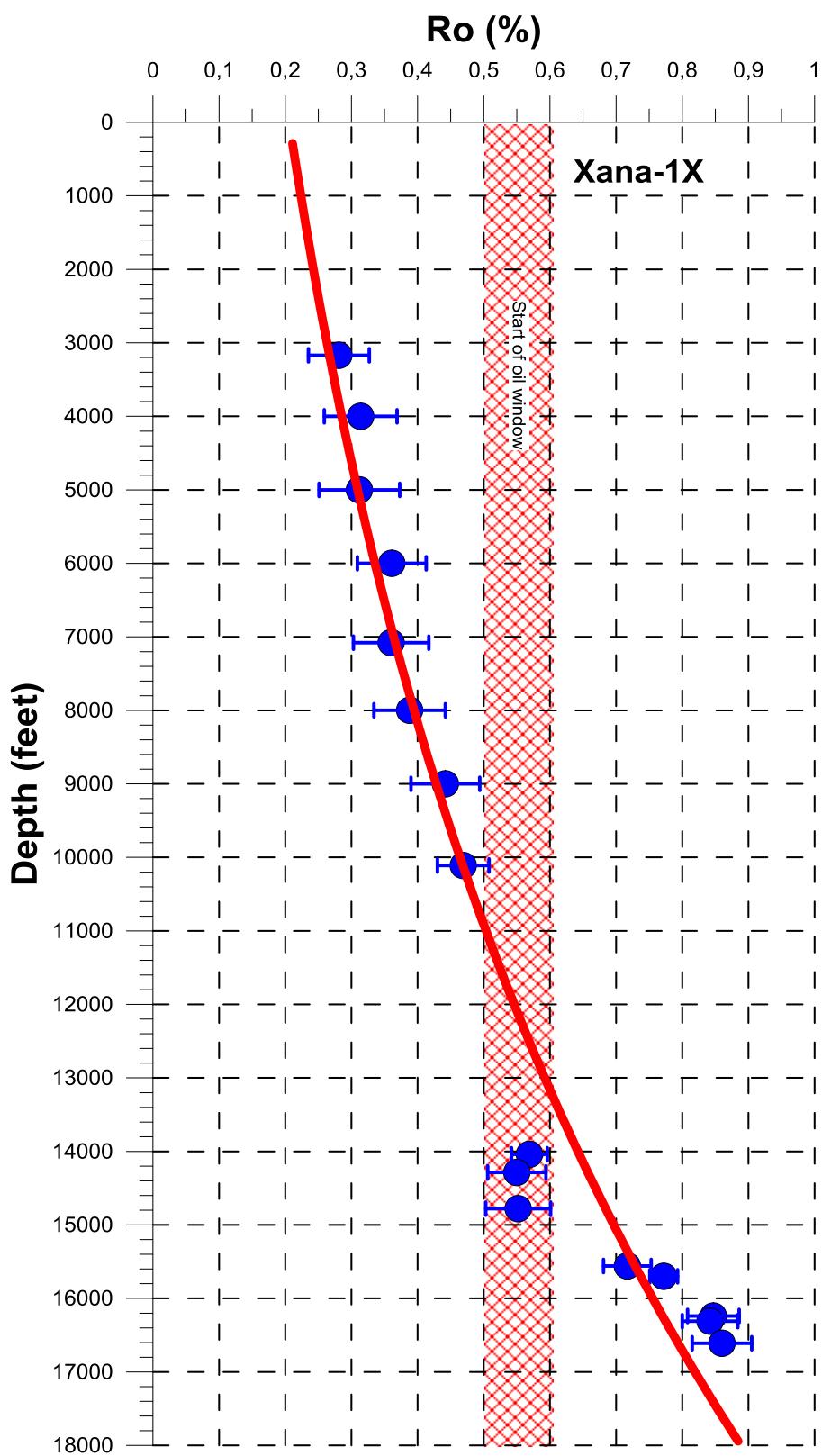


Figure 8. Vitrinite reflectance data, selected populations, alternative 1, including trendline.

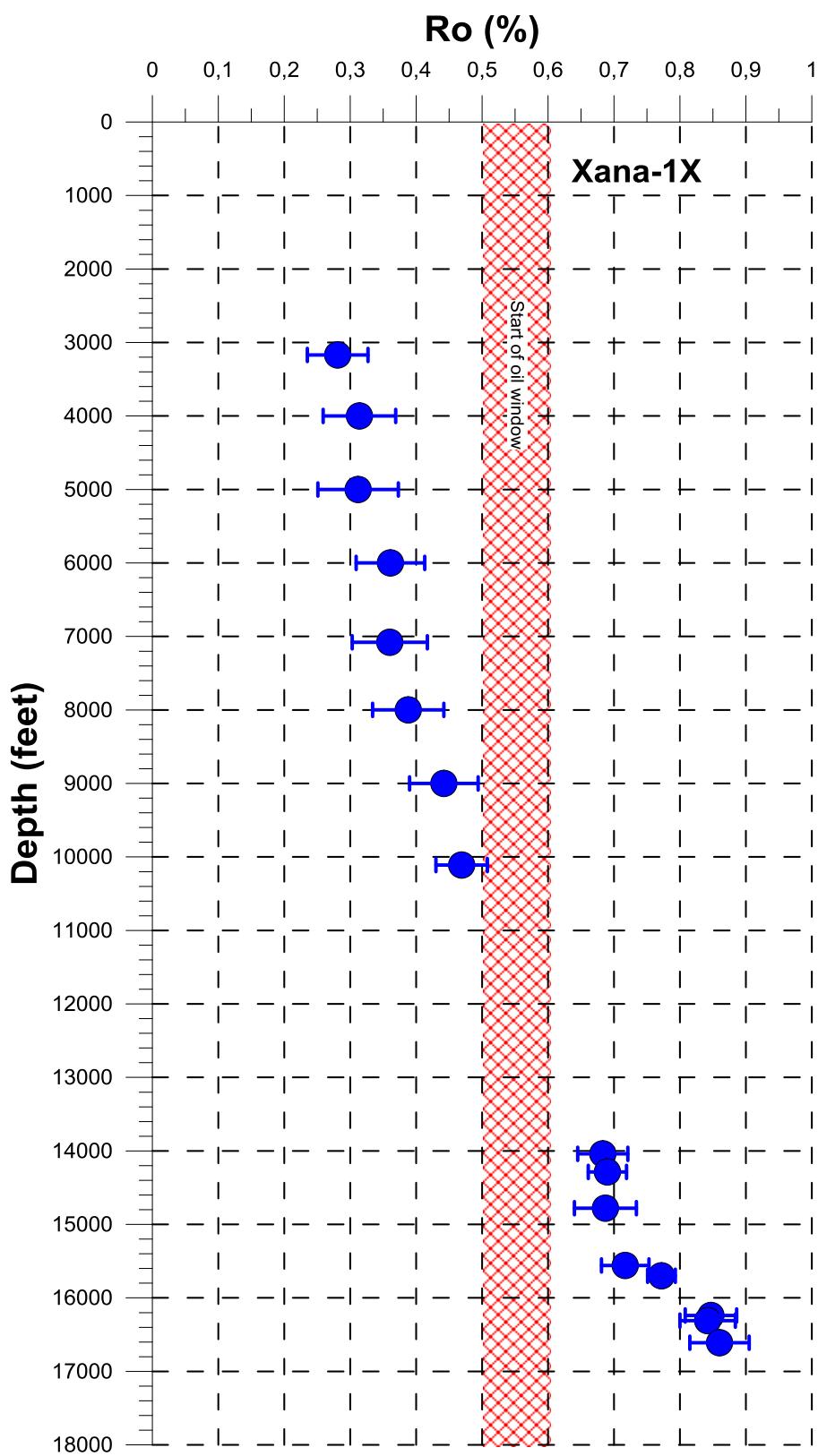


Figure 9. Vitrinite reflectance data, selected populations, alternative 2.

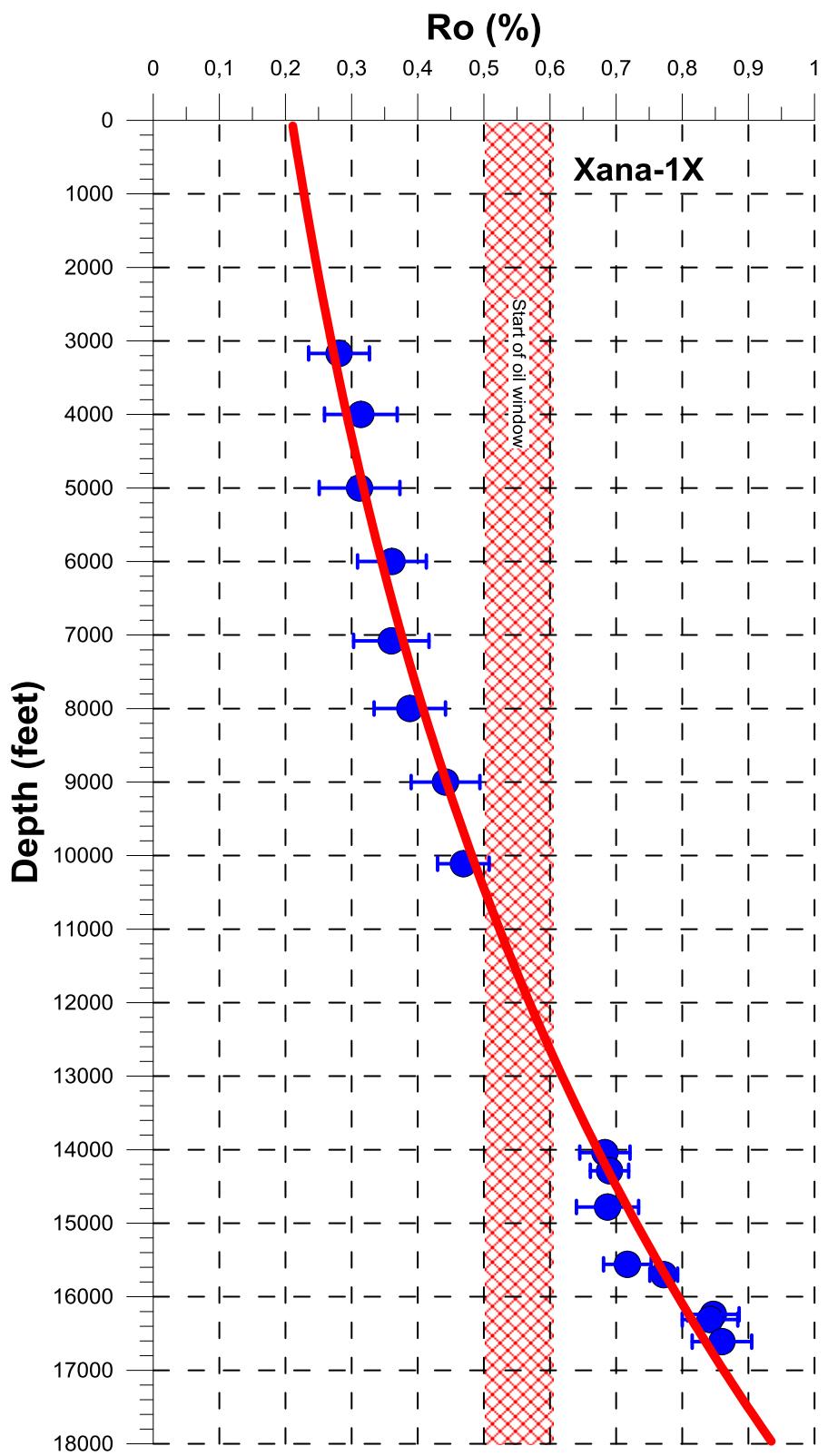


Figure 10. Vitrinite reflectance data, selected populations, alternative 2, including trendline.

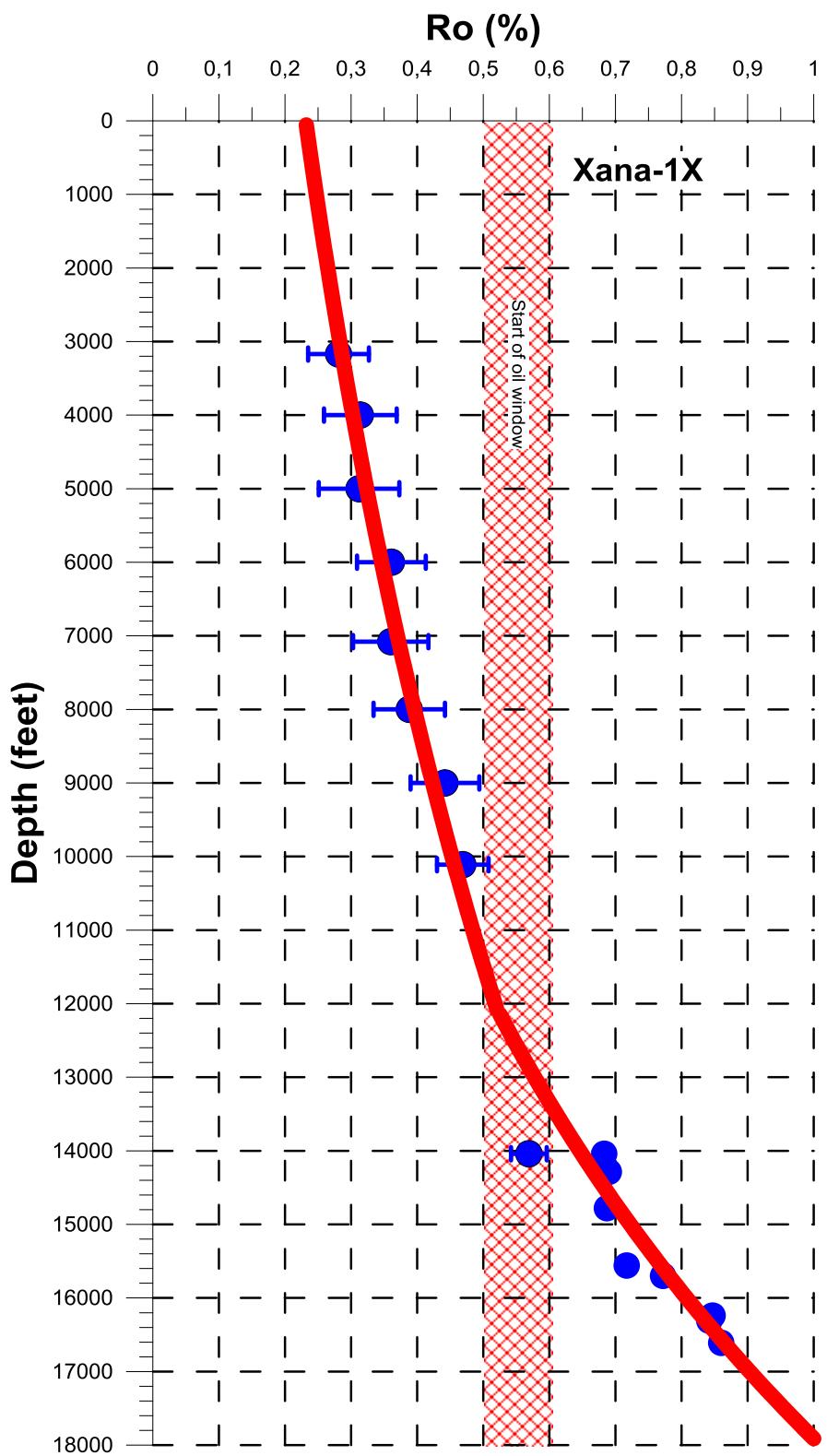


Figure 11. Vitrinite reflectance data, selected populations, alternative 1 (upper part) and alternative 2 (deeper part) with separate fits calculated for each population.

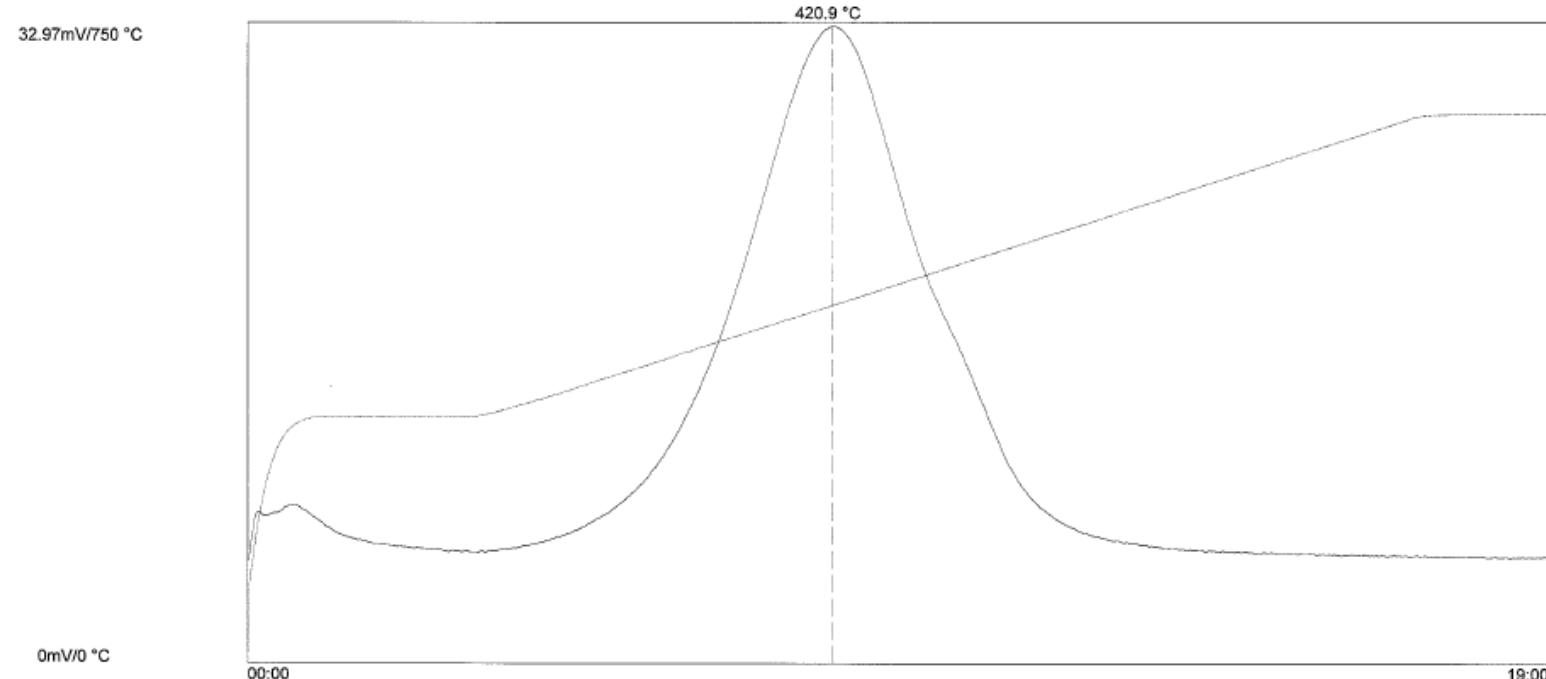
2. Appendix 1. Pyrograms Solvent extracted cutting samples

SR Analyzer - TPH Analysis

Sample ID: 26143 Acq Type: TPH Weight: 100.5 Crucible: 3
Depth: Lithology: None Well Name: N/A
Acq. Date: June 09 2015 / 2:44:51 PM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\26143.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\2015010A.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate: 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁷)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



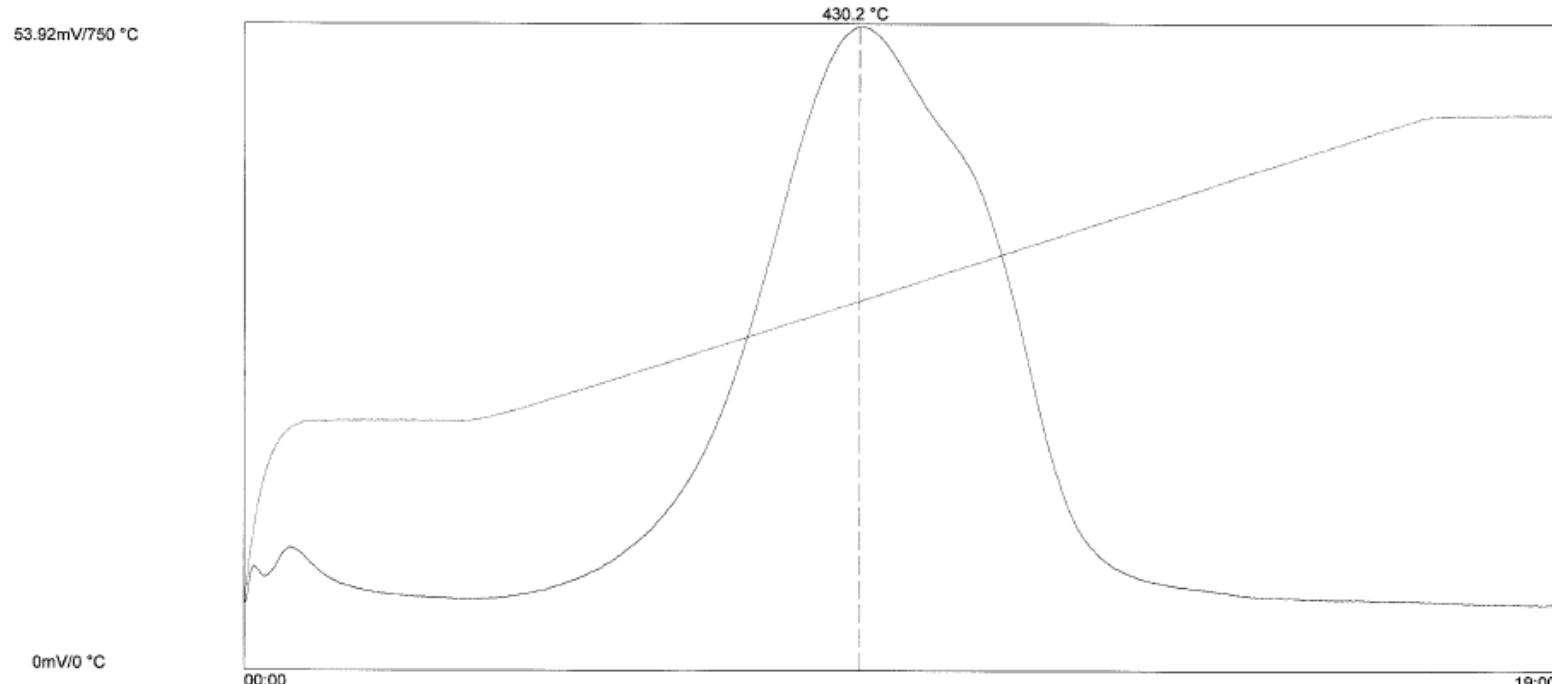
vTPH (S1): .00 mg/g pTPH (S2): .27 mg/g cTemp: 381.9 °C tTemp: 420.9 °C

SR Analyzer - TPH Analysis

Sample ID: 26144 Acq Type: TPH Weight: 100.6 Crucible: 4
Depth: Lithology: None Well Name: N/A
Acq. Date: June 09 2015 / 3:13:32 PM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\26144.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\2015010A.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁷)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



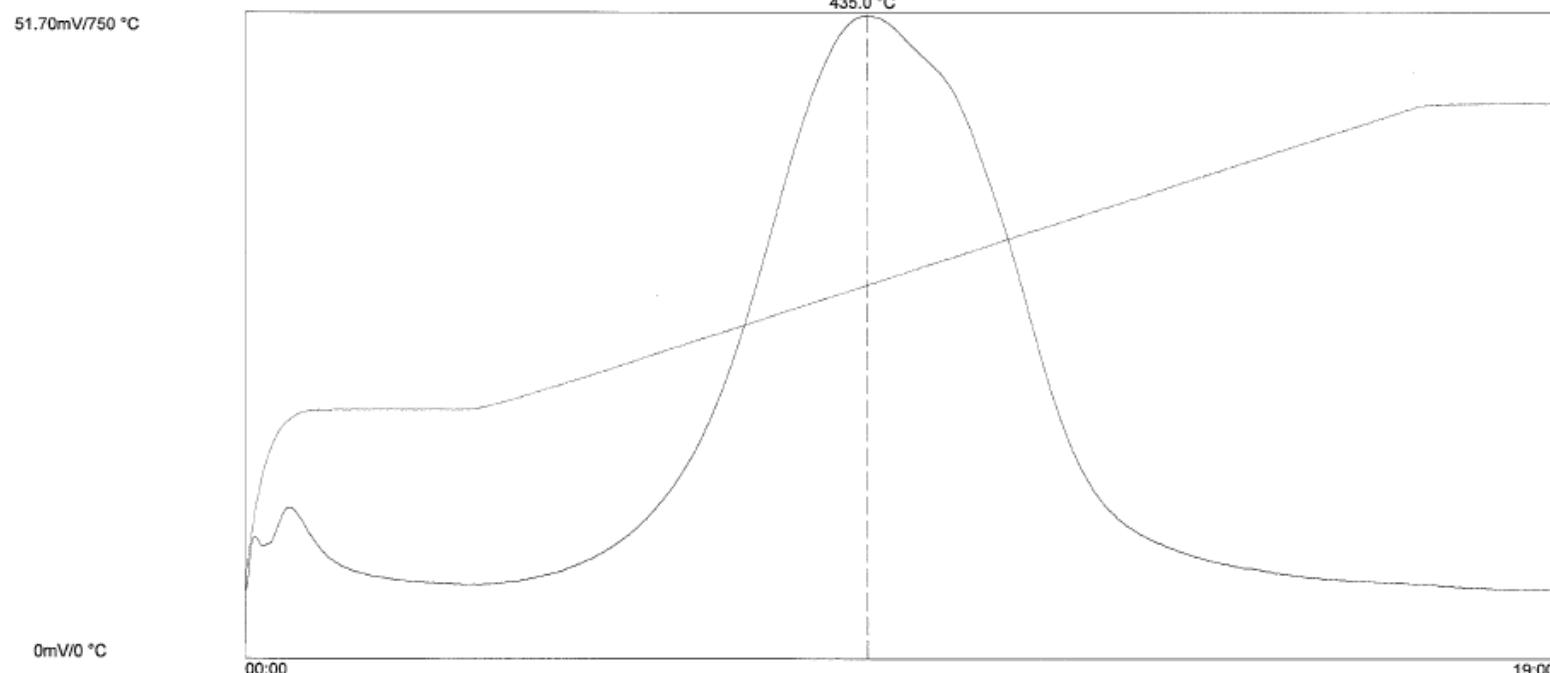
vTPH (S1): .01 mg/g pTPH (S2): .66 mg/g cTemp: 391.2 °C tTemp: 430.2 °C

SR Analyzer - TPH Analysis

Sample ID: 26145 Acq Type: TPH Weight: 100.5 Crucible: 5
Depth: Lithology: None Well Name: N/A
Acq. Date: June 09 2015 / 3:42:19 PM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\26145.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\2015010A.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁴)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



vTPH (S1): .01 mg/g pTPH (S2): .69 mg/g cTemp: 396.0 °C tTemp: 435.0 °C

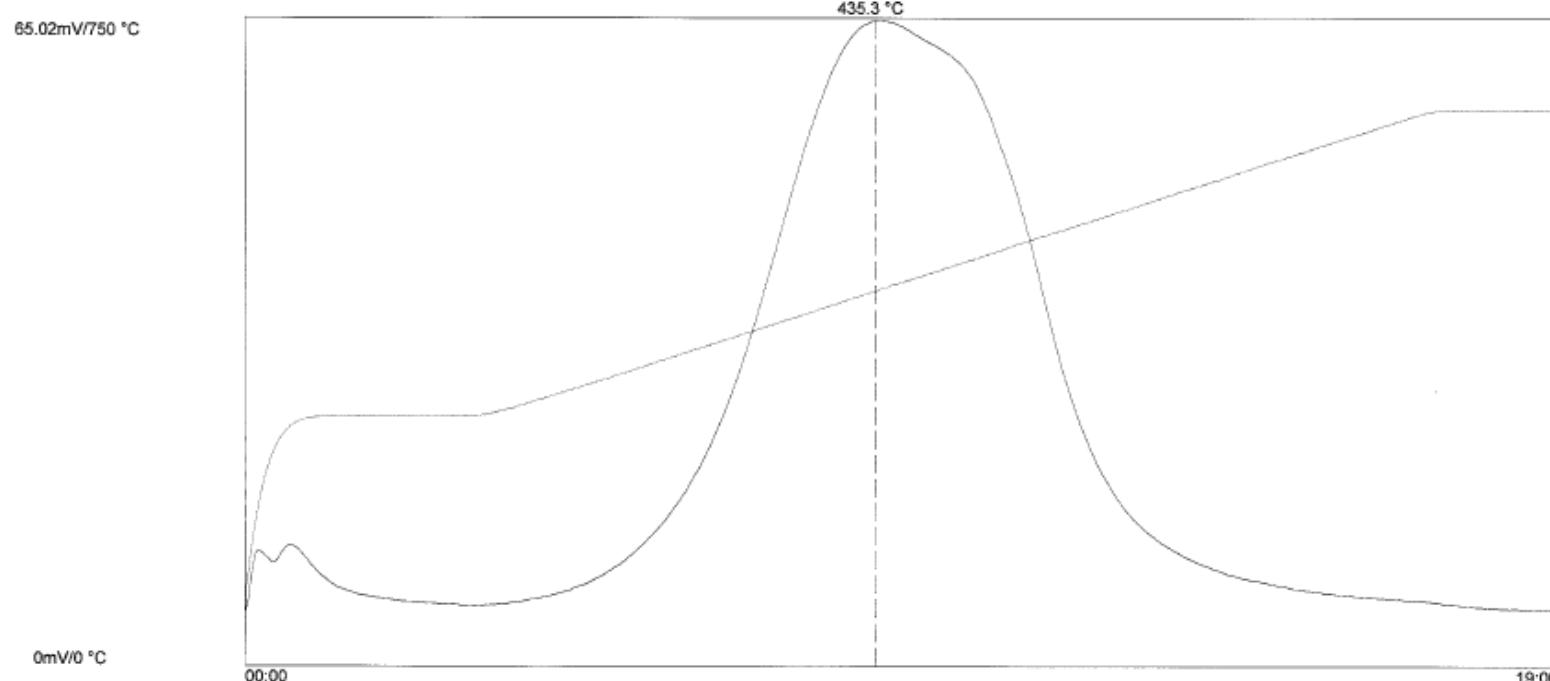
SR Analyzer - TPH Analysis

Sample ID: 26146 Acq Type: TPH Weight: 100.7
Depth: Lithology: None Well Name: N/A
Acq. Date: June 09 2015 / 4:10:52 PM

Crucible: 6

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\26146.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\2015010A.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate: 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



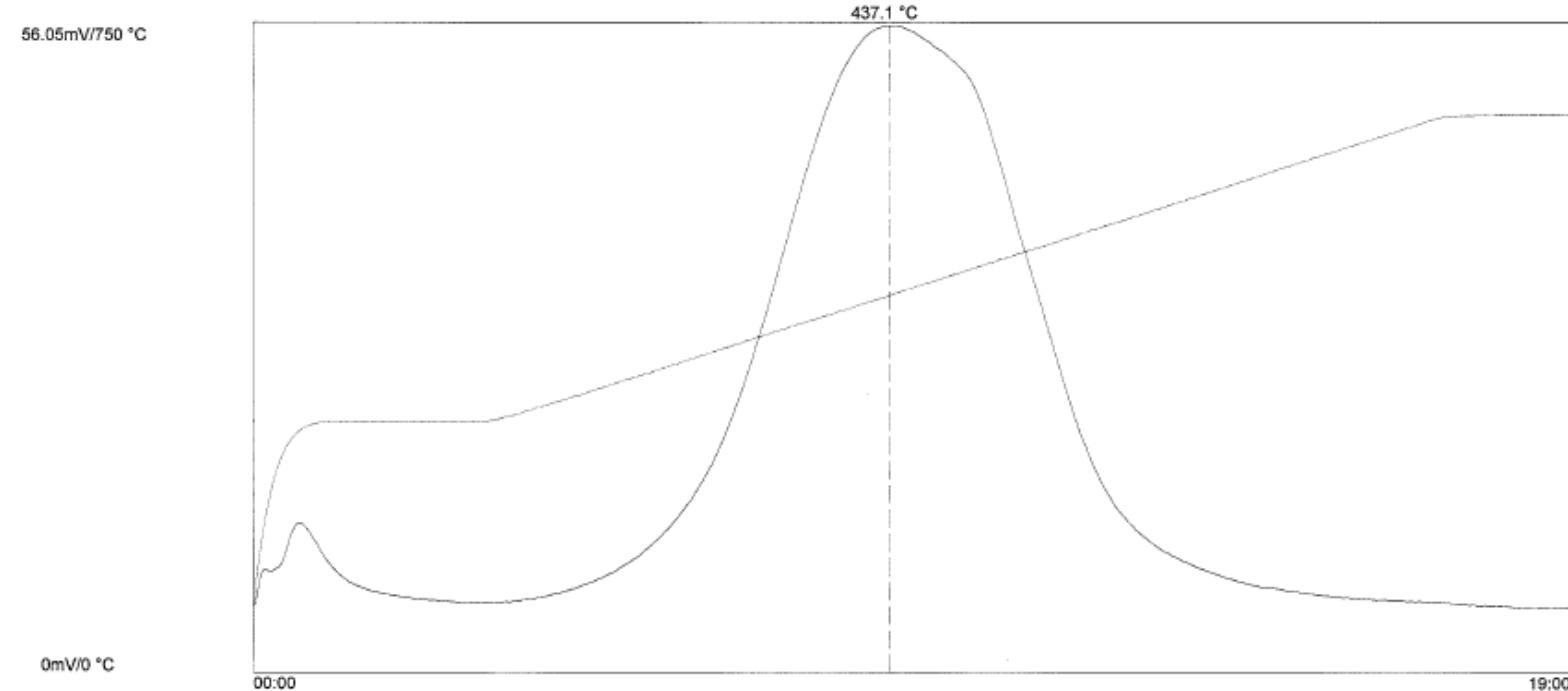
vTPH (S1): .02 mg/g pTPH (S2): .98 mg/g cTemp: 396.3 °C tTemp: 435.3 °C

SR Analyzer - TPH Analysis

Sample ID: 26147 Acq Type: TPH Weight: 100.1
Depth: Lithology: None Well Name: N/A Crucible: 7
Acq. Date: June 09 2015 / 4:39:32 PM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\26147.RAW
Method: C:\Program Files\Thermal Station\TPH_1FP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\2015010A.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgw Instrument name: SRA



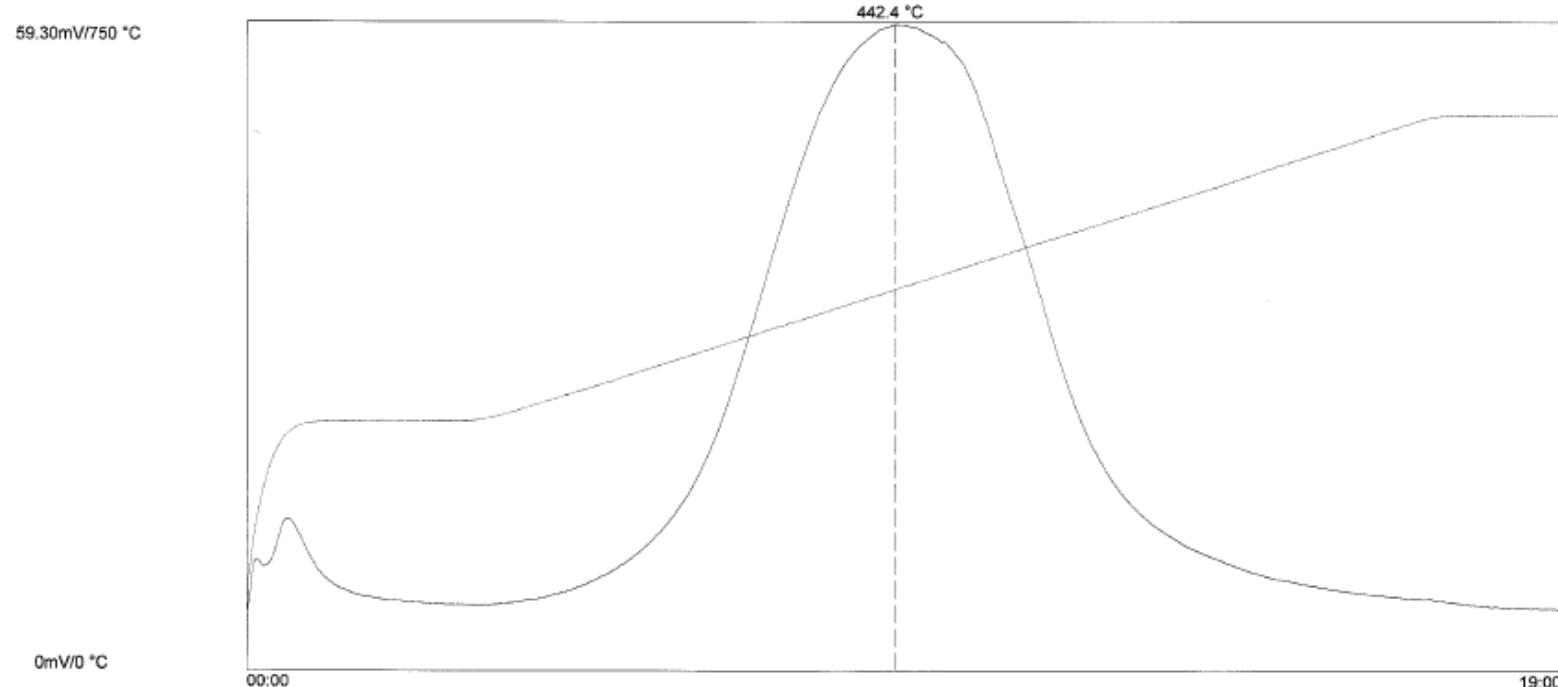
vTPH (S1): .01 mg/g pTPH (S2): .78 mg/g cTemp: 398.1 °C tTemp: 437.1 °C

SR Analyzer - TPH Analysis

Sample ID: 26148 Acq Type: TPH Weight: 100.5
Depth: Lithology: None Well Name: N/A Crucible: 8
Acq. Date: June 09 2015 / 5:08:10 PM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\26148.RAW
Method: C:\Program Files\Thermal Station\TPH\IFP160000.cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\2015010A.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate: 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



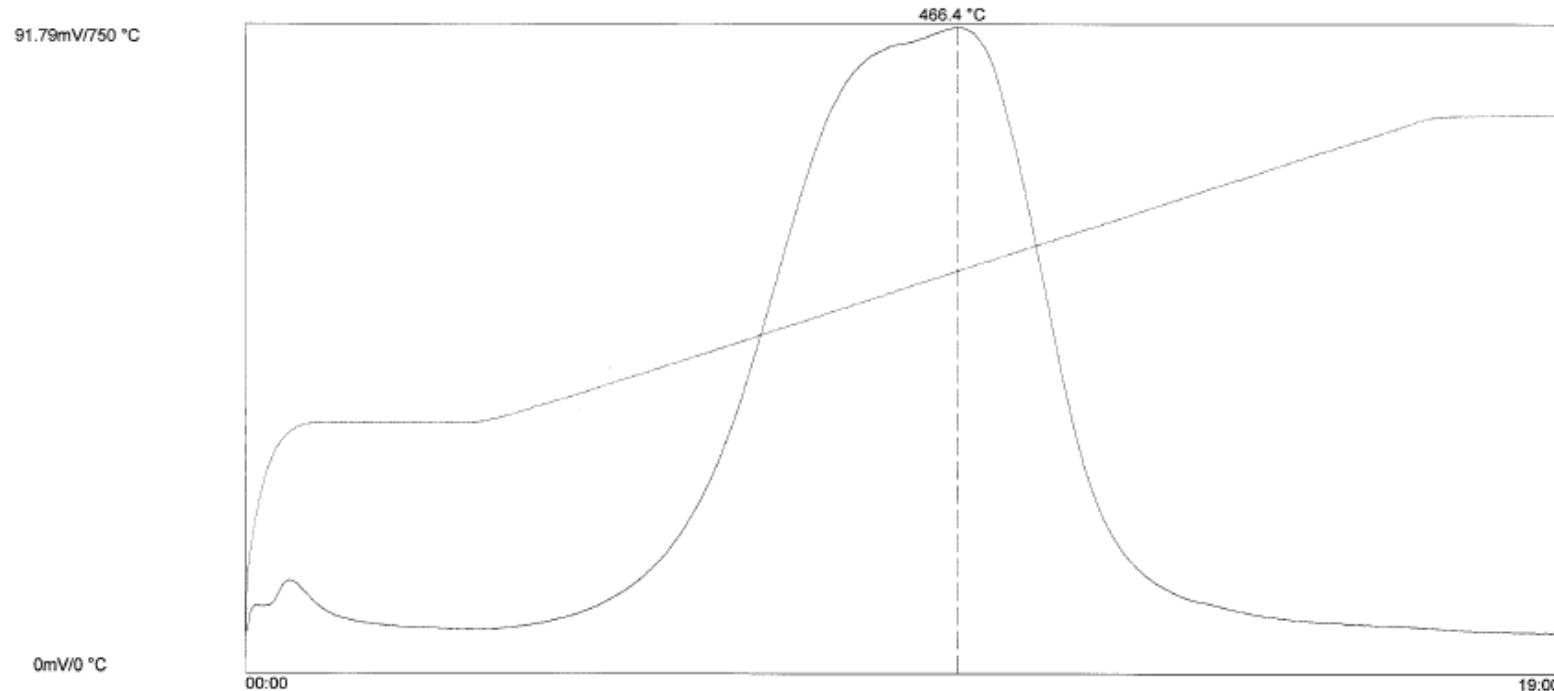
vTPH (S1): .02 mg/g pTPH (S2): .89 mg/g cTemp: 403.4 °C tTemp: 442.4 °C

SR Analyzer - TPH Analysis

Sample ID: 26149 Acq Type: TPH Weight: 100.5
Depth: Lithology: None Well Name: N/A
Acq. Date: June 09 2015 / 5:36:46 PM Crucible: 9

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\26149.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\2015010A.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



vTPH (S1): .02 mg/g pTPH (S2): 1.42 mg/g cTemp: 427.4 °C tTemp: 466.4 °C

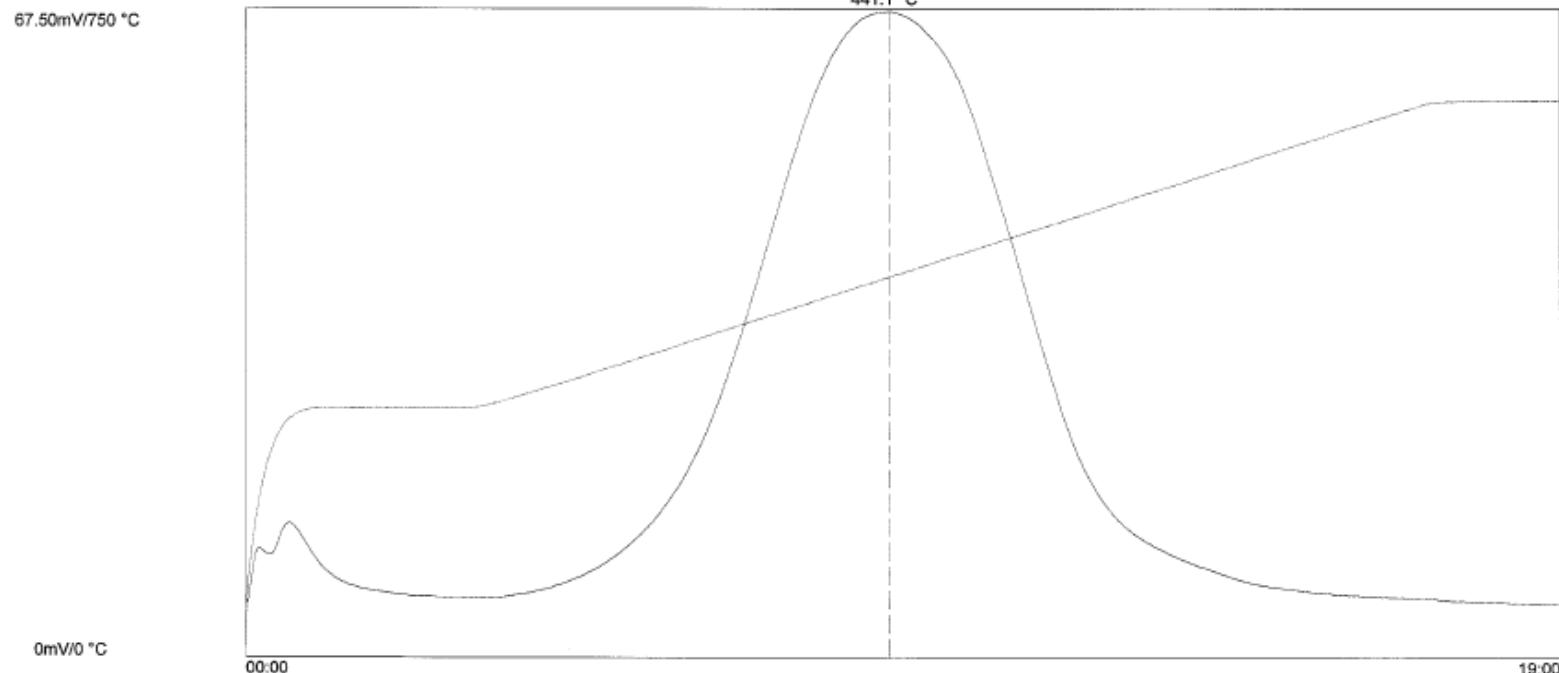
SR Analyzer - TPH Analysis

Sample ID: 26150 Acq Type: TPH Weight: 100.2
Depth: Lithology: None Well Name: N/A
Acq. Date: June 09 2015 / 6:05:20 PM

Crucible: 10

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\26150.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\2015010A.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^{-7})

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



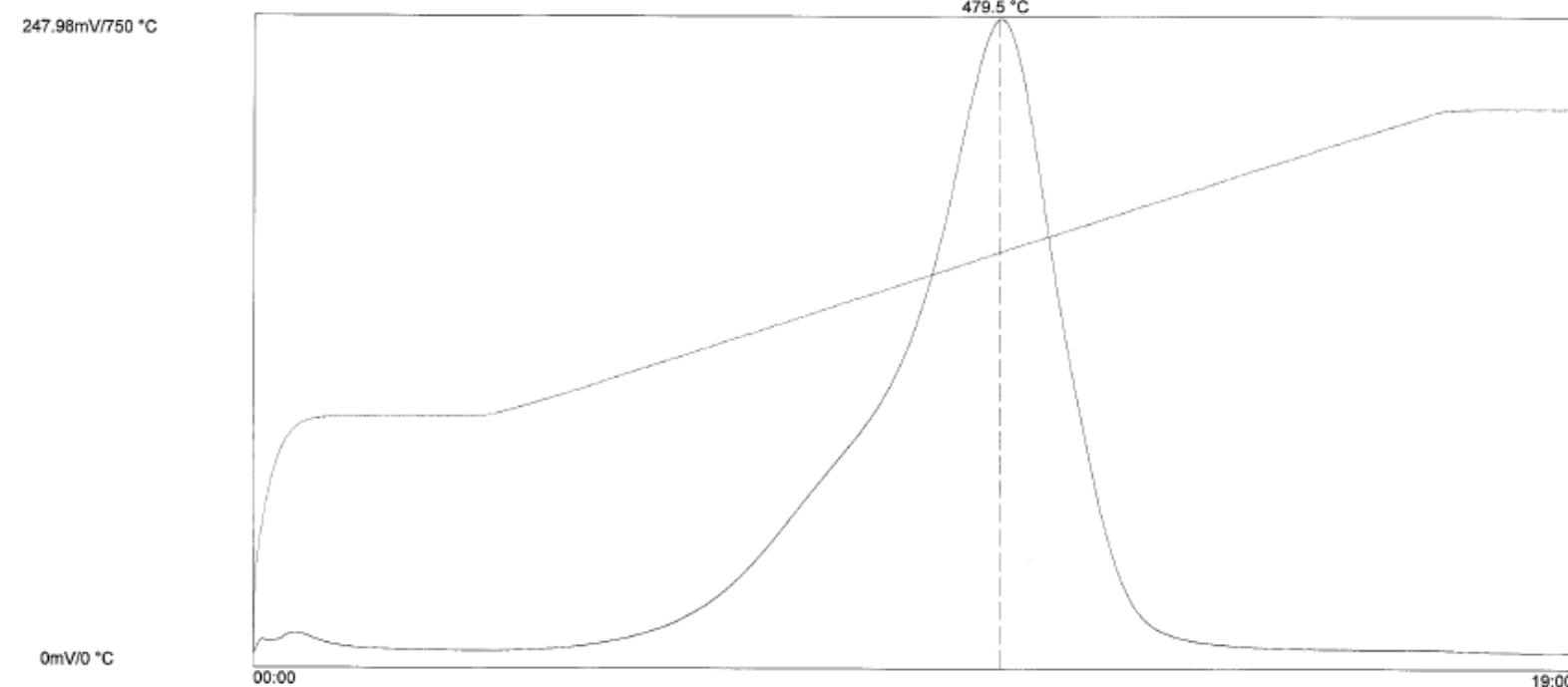
vTPH (S1): .02 mg/g pTPH (S2): .98 mg/g cTemp: 402.1 °C tTemp: 441.1 °C

SR Analyzer - TPH Analysis

Sample ID: 26151 Acq Type: TPH Weight: 100.6
Depth: Lithology: None Well Name: N/A
Acq. Date: June 09 2015 / 7:59:18 PM Crucible: 12

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\26151.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\2015010A.pes
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgw Instrument name: SRA



vTPH (S1): .02 mg/g pTPH (S2): 2.56 mg/g cTemp: 440.5 °C tTemp: 479.5 °C

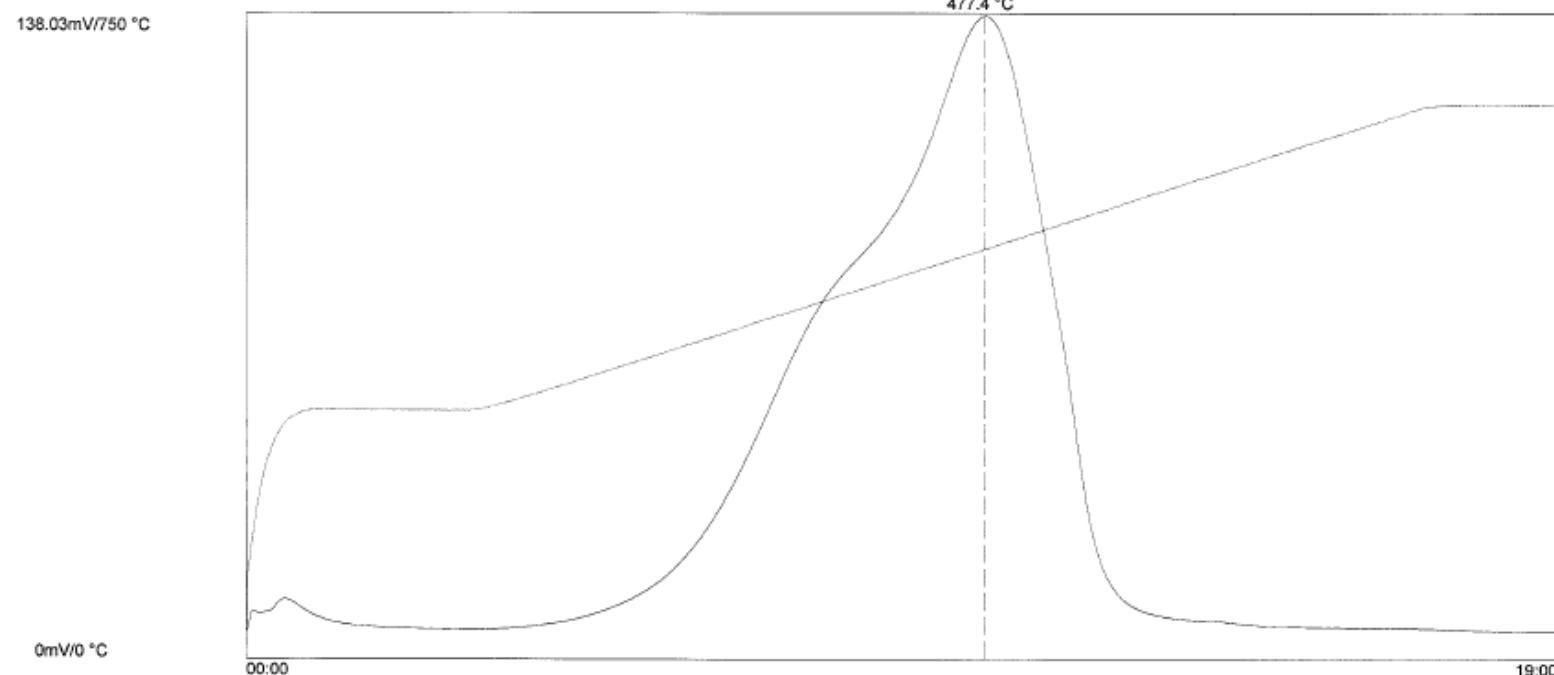
SR Analyzer - TPH Analysis

Sample ID: 26152 Acq Type: TPH Weight: 99.9
Depth: Lithology: None Well Name: N/A
Acq. Date: June 09 2015 / 8:27:46 PM

Crucible: 13

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\26152.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\2015010A.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁷)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



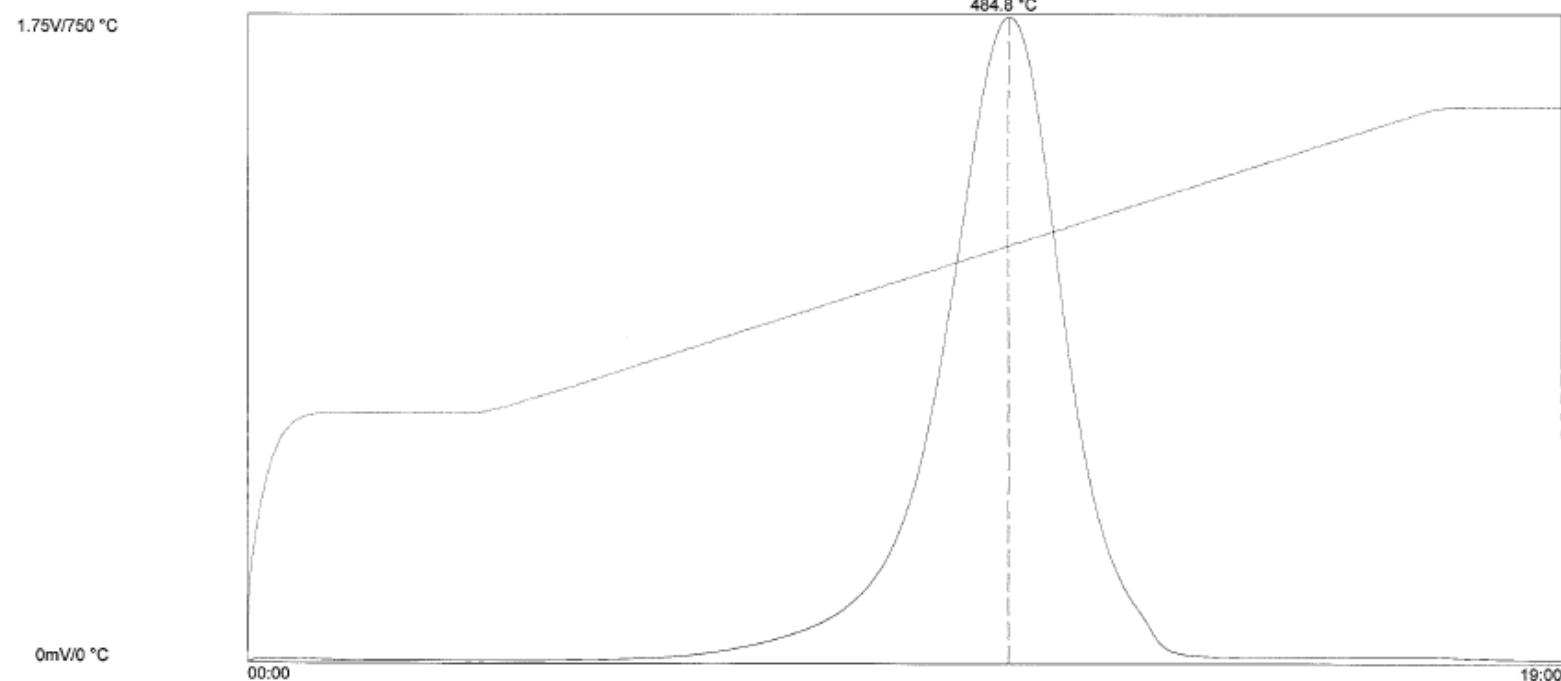
vTPH (S1): .01 mg/g pTPH (S2): 1.76 mg/g cTemp: 438.4 °C tTemp: 477.4 °C

SR Analyzer - TPH Analysis

Sample ID: 26153 Acq Type: TPH Weight: 100.3
Depth: Lithology: None Well Name: N/A
Acq. Date: June 09 2015 / 8:56:22 PM Crucible: 14

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\26153.RAW
Method: C:\Program Files\Thermal Station\TPH_1FP160000.cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\2015010A.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate: 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



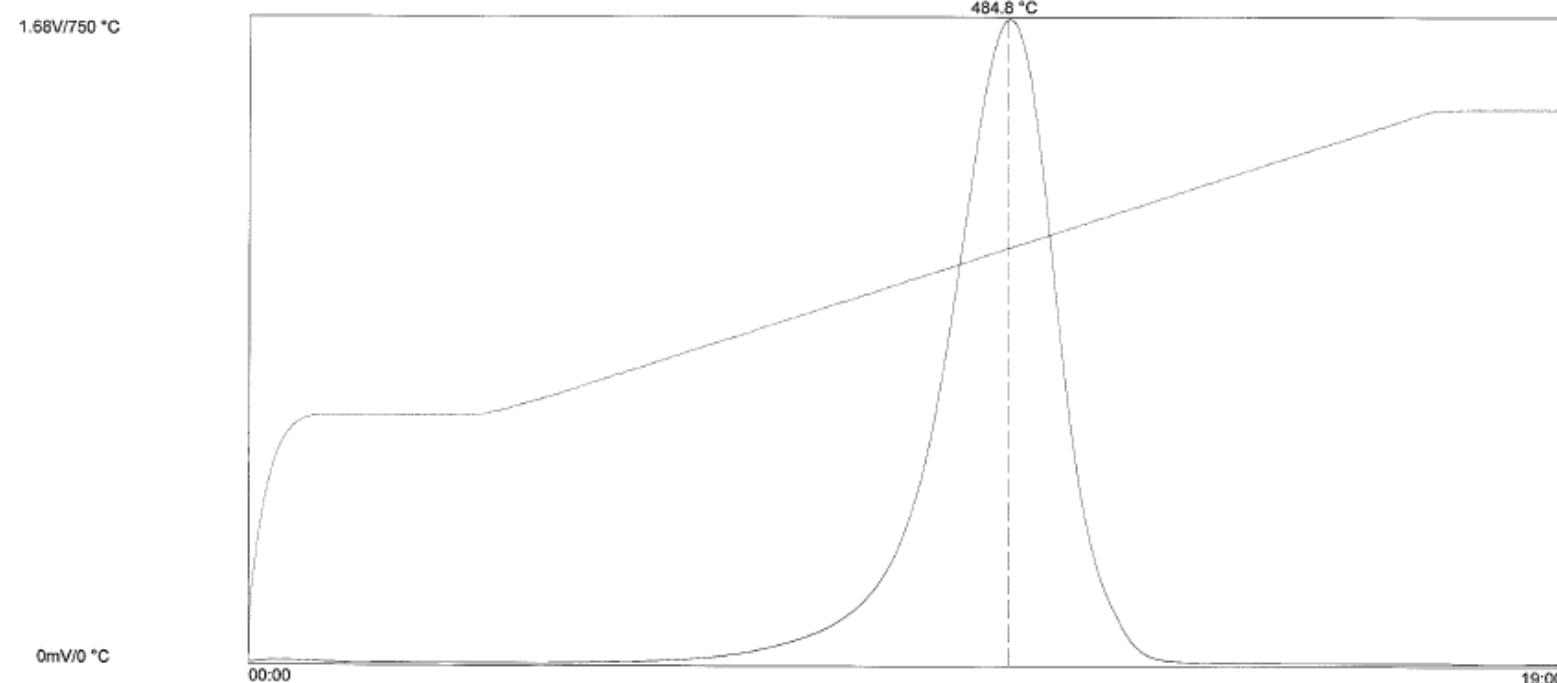
vTPH (S1): .02 mg/g pTPH (S2): 13.97 mg/g cTemp: 445.8 °C tTemp: 484.8 °C

SR Analyzer - TPH Analysis

Sample ID: 26154 Acq Type: TPH Weight: 100.7
Depth: Lithology: None Well Name: N/A
Acq. Date: June 09 2015 / 9:25:00 PM Crucible: 15

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\26154.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\2015010A.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁷)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



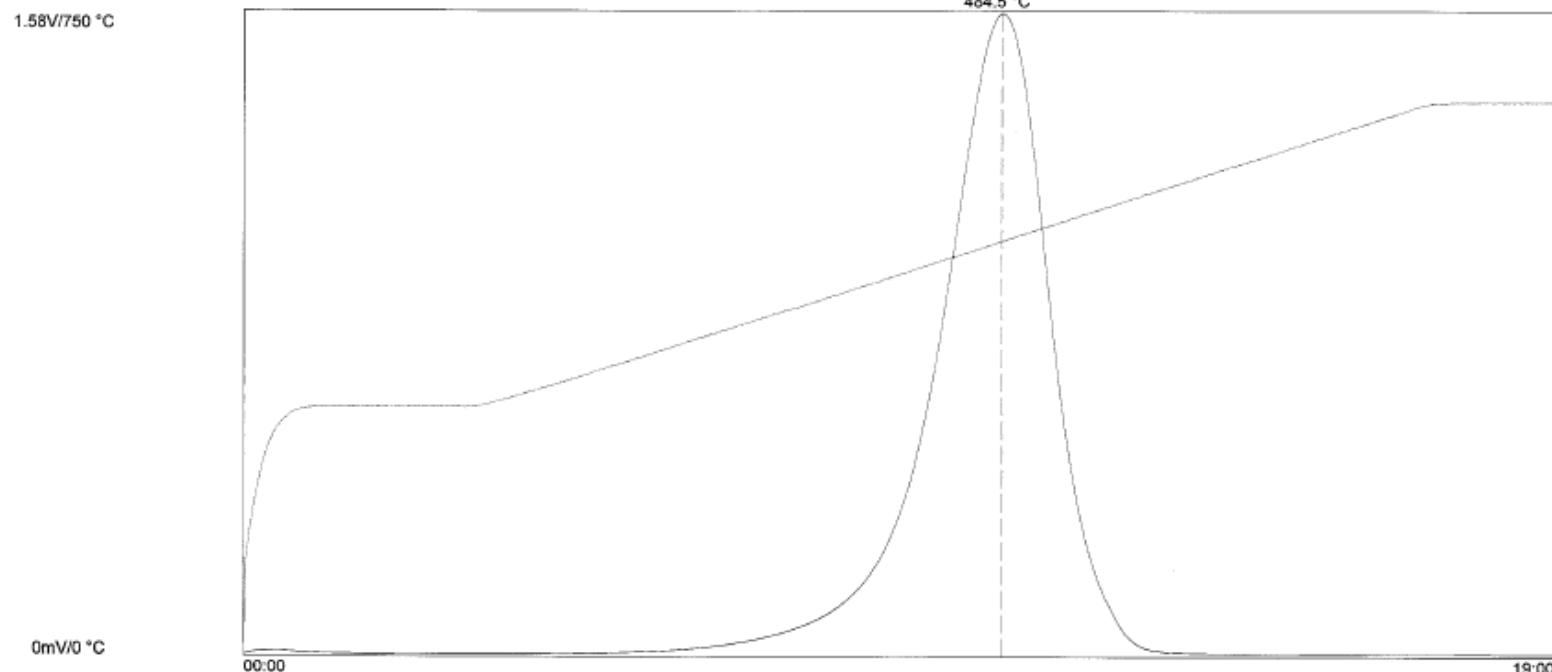
vTPH (S1): .02 mg/g pTPH (S2): 12.12 mg/g cTemp: 445.8 °C tTemp: 484.8 °C

SR Analyzer - TPH Analysis

Sample ID: 26155 Acq Type: TPH Weight: 100.2
Depth: Lithology: None Well Name: N/A
Acq. Date: June 09 2015 / 9:53:40 PM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\26155.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\2015010A.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



vTPH (S1): .01 mg/g pTPH (S2): 11.44 mg/g cTemp: 445.5 °C tTemp: 484.5 °C

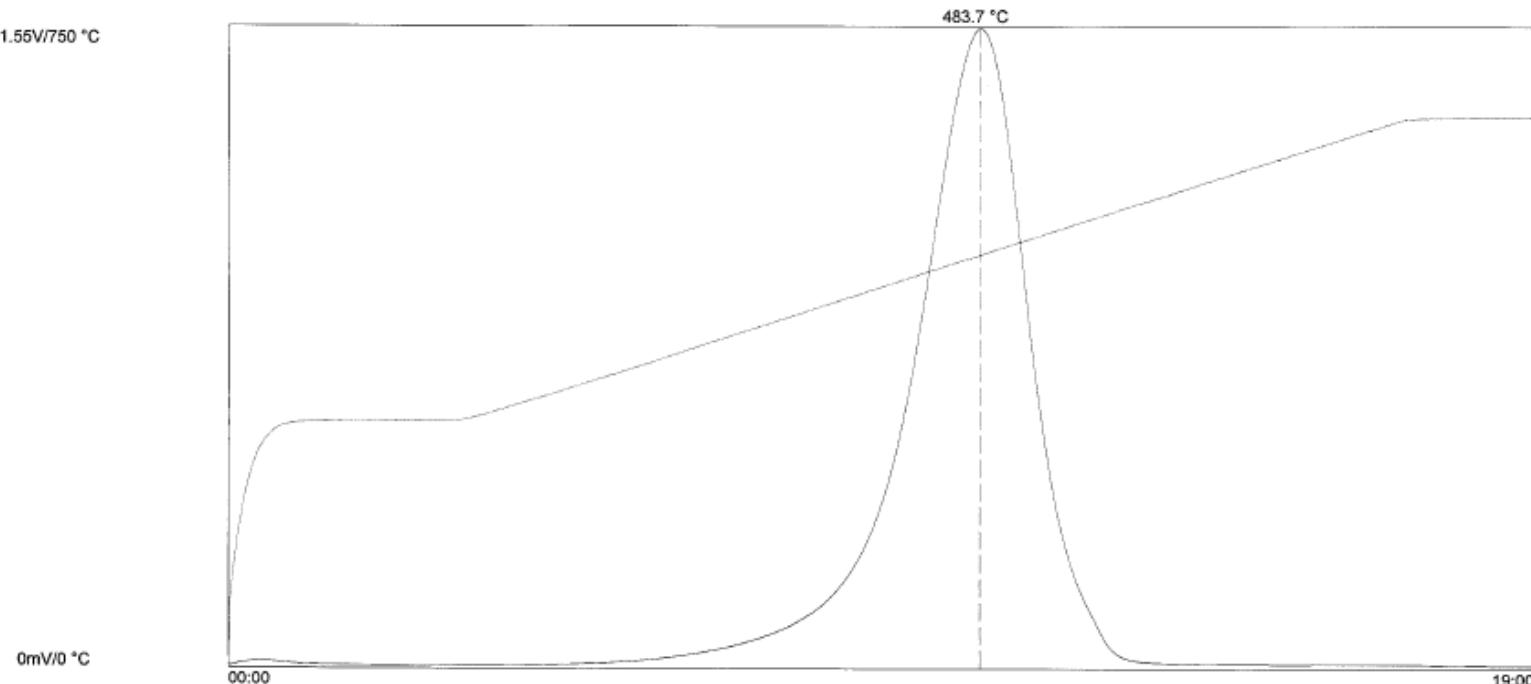
SR Analyzer - TPH Analysis

Sample ID: 26156 Acq Type: TPH Weight: 100.6 Crucible: 17
Depth: Lithology: None Well Name: N/A
Acq. Date: June 09 2015 / 10:22:18 PM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\26156.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\2015010A.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁴)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA

1.55V/750 °C



vTPH (S1): .02 mg/g pTPH (S2): 11.74 mg/g cTemp: 444.7 °C tTemp: 483.7 °C

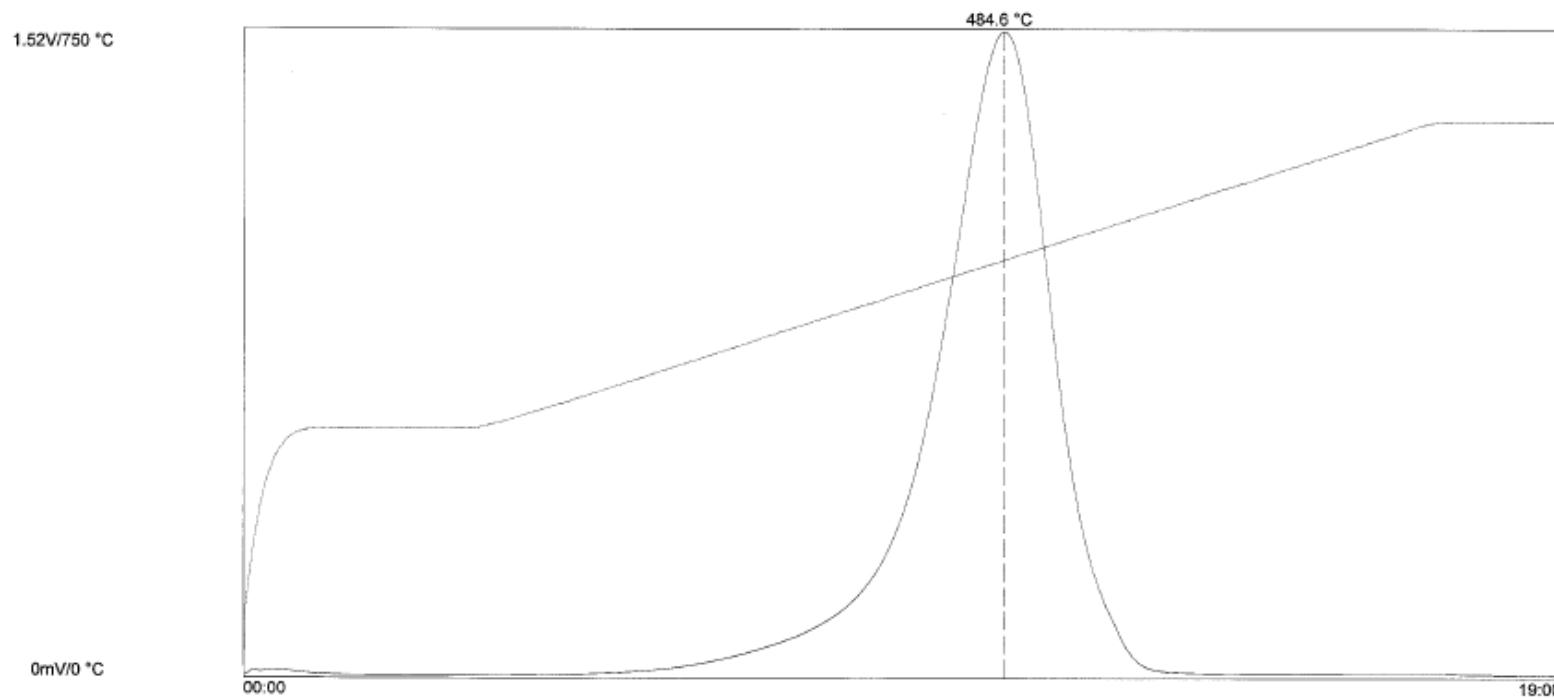
SR Analyzer - TPH Analysis

Sample ID: 26157 Acq Type: TPH Weight: 100.4
Depth: Lithology: None Well Name: N/A
Acq. Date: June 09 2015 / 10:50:56 PM Crucible: 18

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\26157.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\2015010A.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA

1.52V/750 °C



vTPH (S1): .03 mg/g pTPH (S2): 11.60 mg/g cTemp: 445.6 °C tTemp: 484.6 °C

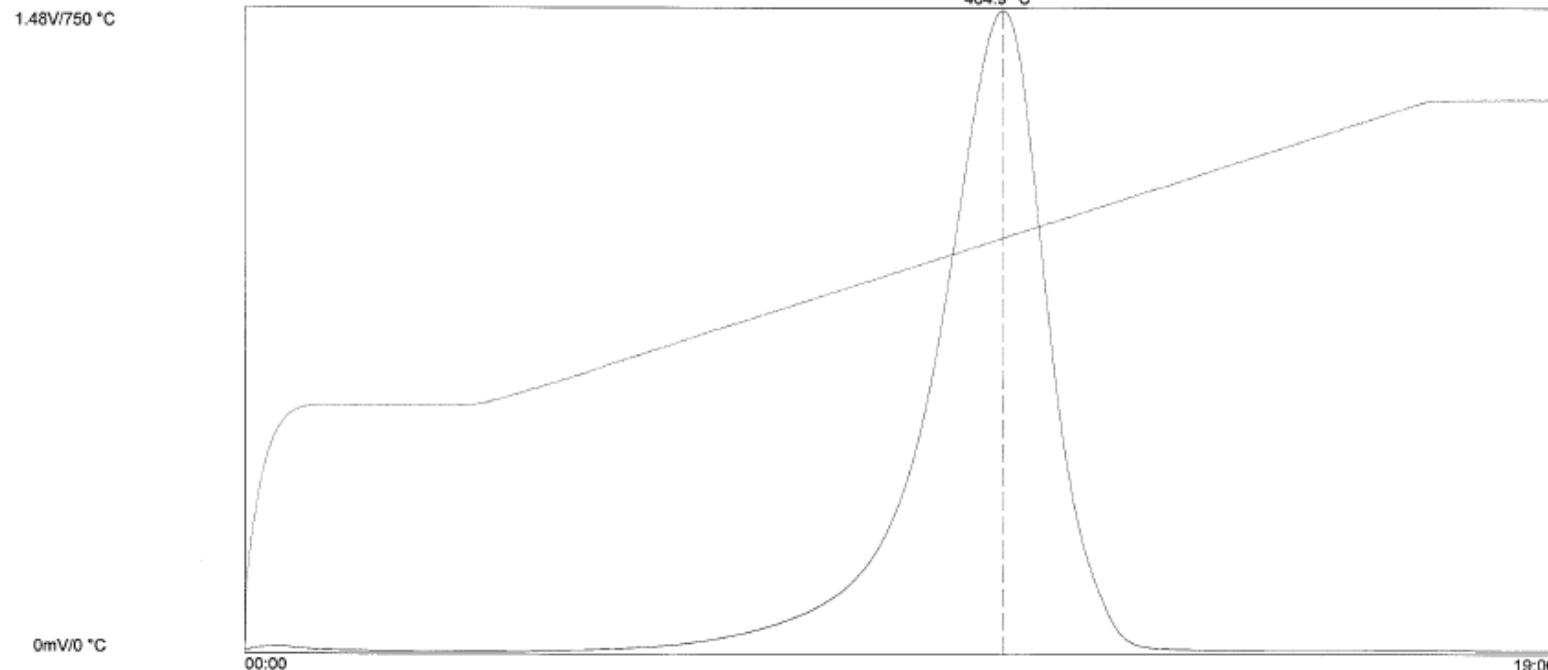
SR Analyzer - TPH Analysis

Sample ID: 26158 Acq Type: TPH Weight: 100.8
Depth: Lithology: None Well Name: N/A
Acq. Date: June 09 2015 / 11:19:37 PM

Crucible: 19

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\26158.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\2015010A.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁷)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



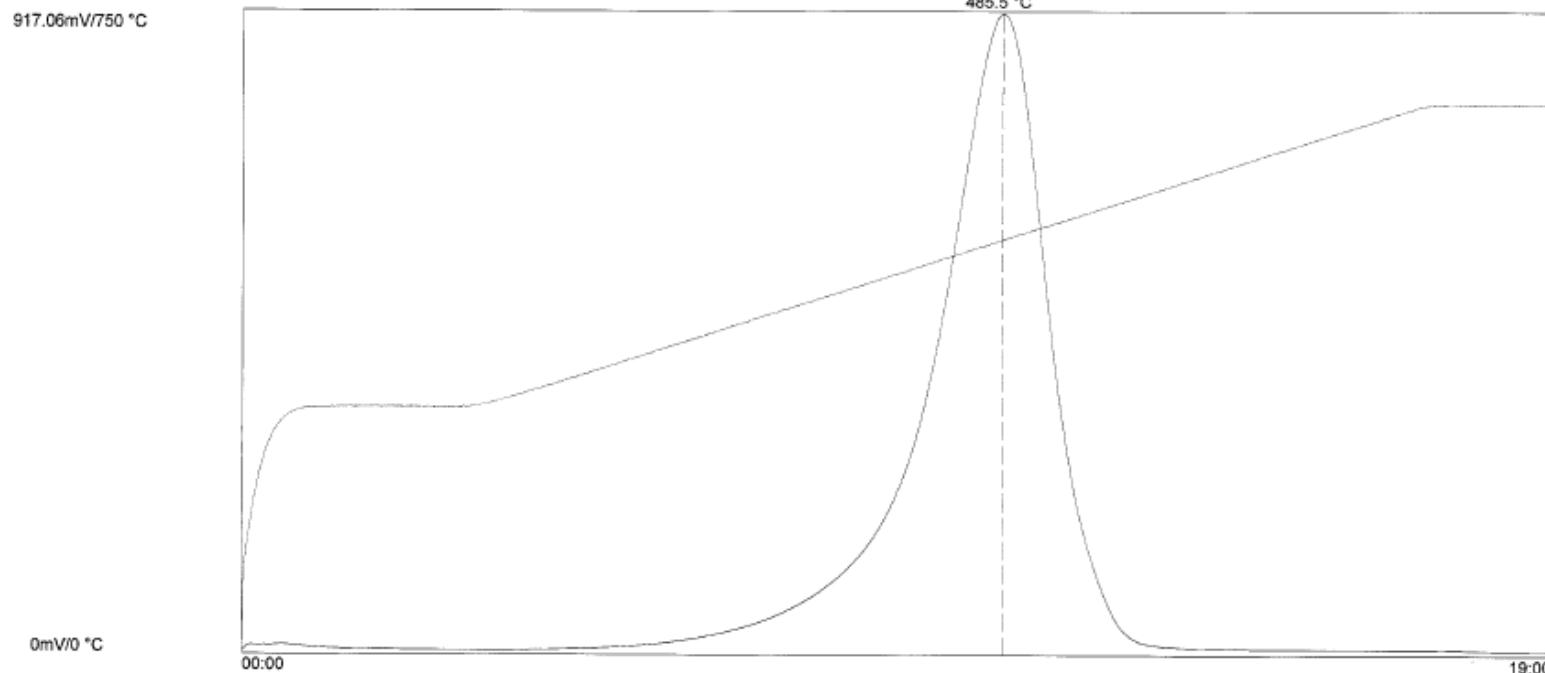
vTPH (S1): .03 mg/g pTPH (S2): 10.74 mg/g cTemp: 445.9 °C tTemp: 484.9 °C

SR Analyzer - TPH Analysis

Sample ID: 26159 Acq Type: TPH Weight: 100.1
Depth: Lithology: None Well Name: N/A
Acq. Date: June 10 2015 / 1:13:46 AM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\26159.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\2015010A.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



vTPH (S1): .02 mg/g pTPH (S2): 6.95 mg/g cTemp: 446.5 °C tTemp: 485.5 °C

SR Analyzer - TPH Analysis

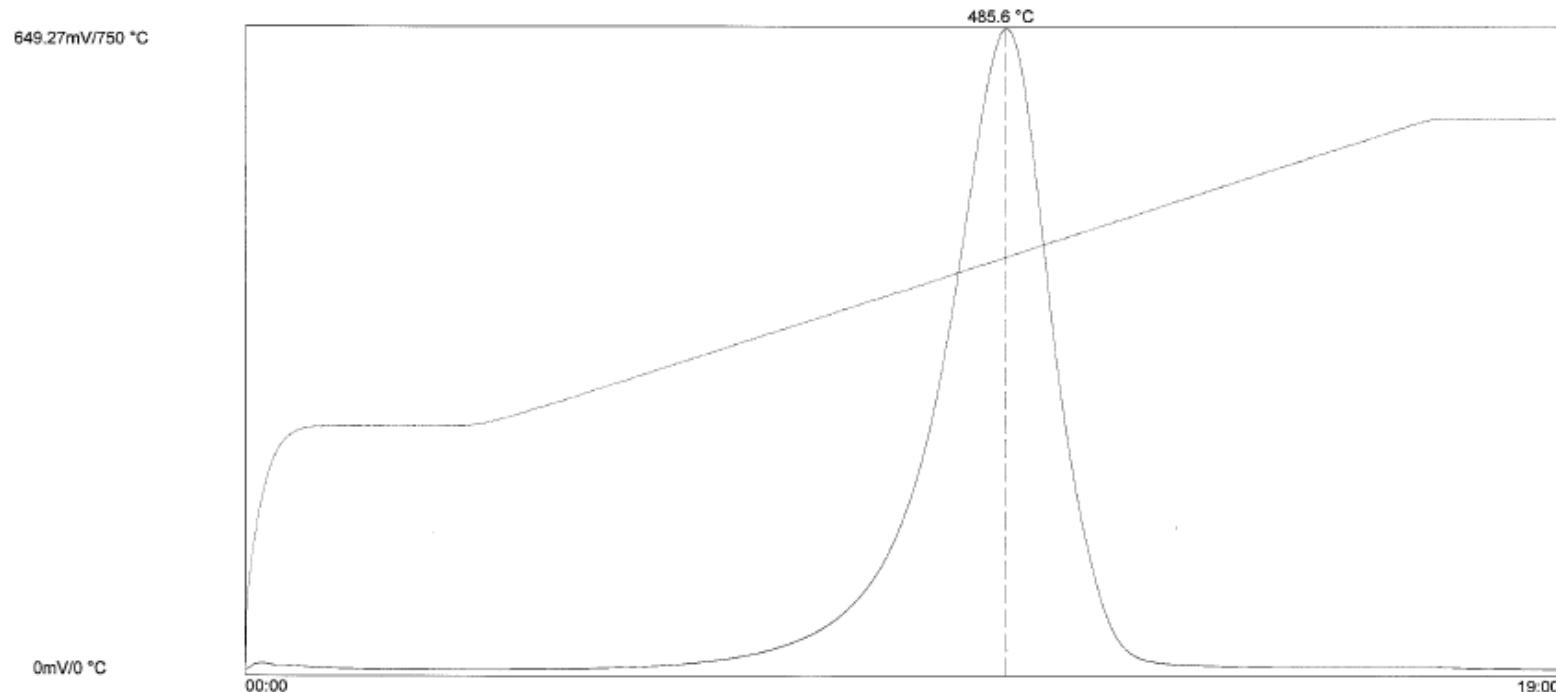
Sample ID: 26160 Acq Type: TPH Weight: 100.6
Depth: Lithology: None Well Name: N/A
Acq. Date: June 10 2015 / 1:42:30 AM

Crucible: 22

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\26160.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\2015010A.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate: 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA

649.27mV/750 °C



vTPH (S1): .01 mg/g pTPH (S2): 4.66 mg/g cTemp: 446.6 °C tTemp: 485.6 °C

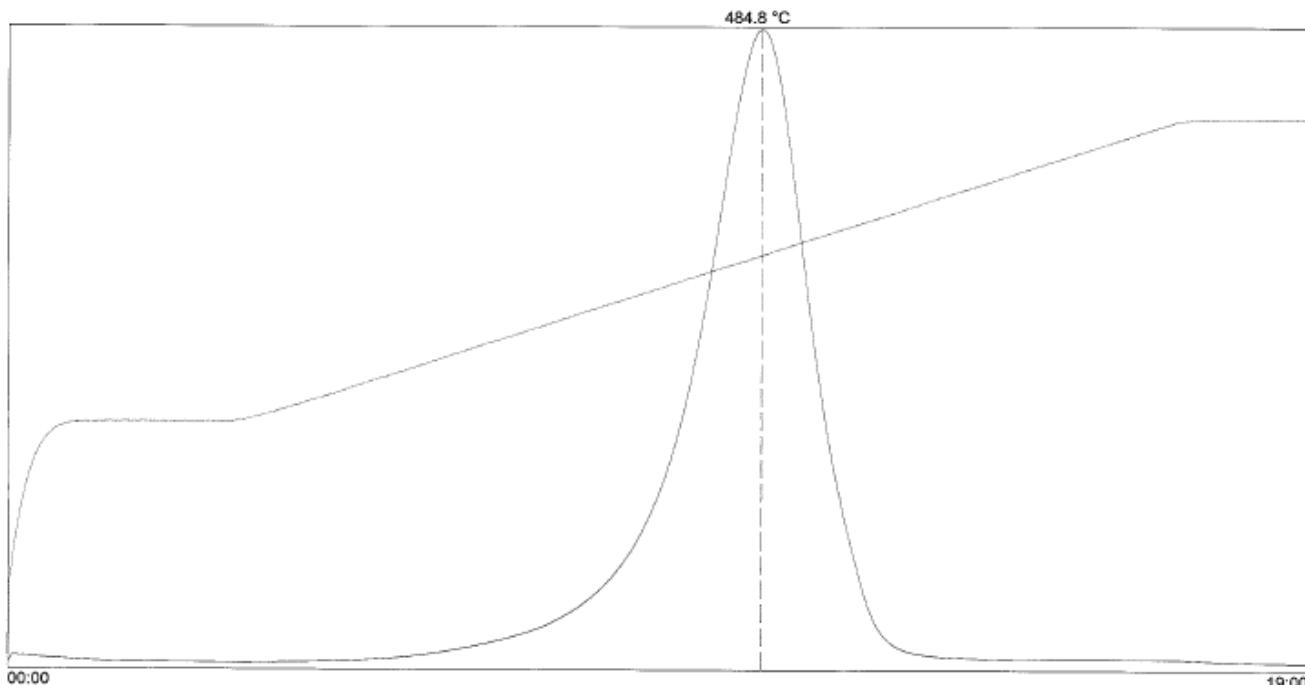
SR Analyzer - TPH Analysis

Sample ID: 26161 Acq Type: TPH Weight: 100.3
Depth: Lithology: None Well Name: N/A
Acq. Date: June 10 2015 / 2:11:16 AM Crucible: 23

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\26161.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\2015010A.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁷)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA

615.60mV/750 °C



vTPH (S1): .01 mg/g pTPH (S2): 4.89 mg/g cTemp: 445.8 °C tTemp: 484.8 °C

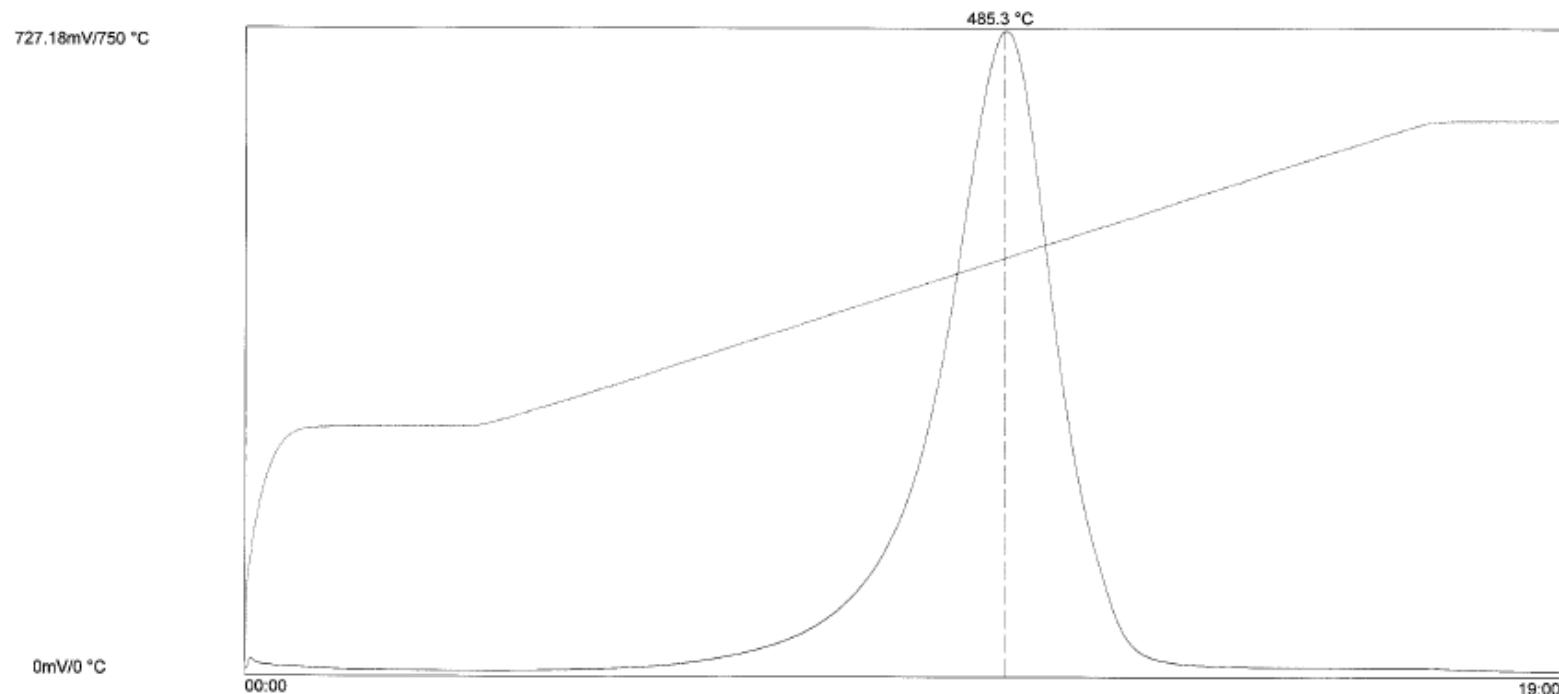
SR Analyzer - TPH Analysis

Sample ID: 26162 Acq Type: TPH Weight: 100.0 Crucible: 24
Depth: Lithology: None Well Name: N/A
Acq. Date: June 10 2015 / 2:39:56 AM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\26162.RAW
Method: C:\Program Files\Thermal Station\TPH_1FP160000.cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\2015010A.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate: 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁻⁷)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA

727.18mV/750 °C



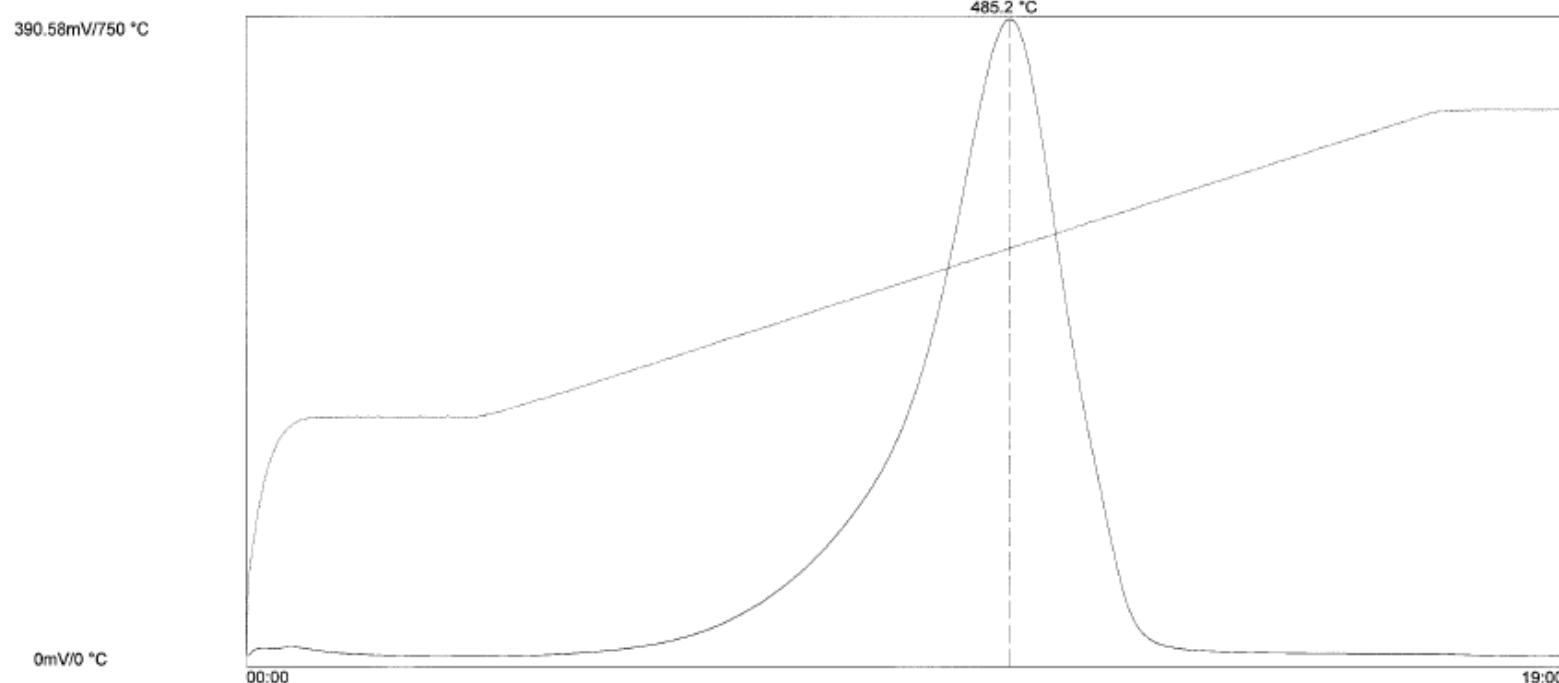
vTPH (S1): .02 mg/g pTPH (S2): 5.58 mg/g cTemp: 446.3 °C tTemp: 485.3 °C

SR Analyzer - TPH Analysis

Sample ID: 26163 Acq Type: TPH Weight: 100.9
Depth: Lithology: None Well Name: N/A
Acq. Date: June 10 2015 / 3:08:40 AM Crucible: 25

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\26163.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\2015010A.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



vTPH (S1): .02 mg/g pTPH (S2): 3.63 mg/g cTemp: 446.2 °C tTemp: 485.2 °C

SR Analyzer - TPH Analysis

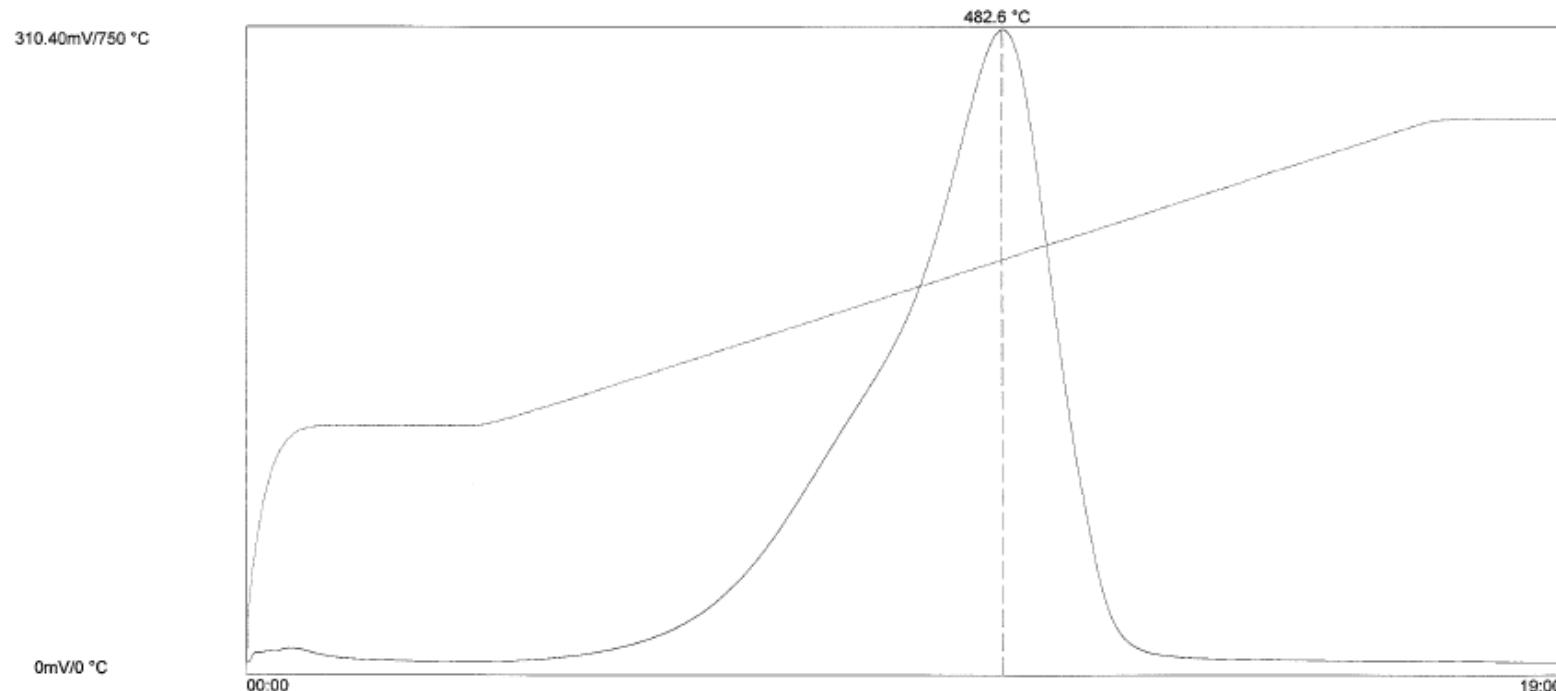
Sample ID: 26164 Acq Type: TPH Weight: 100.3
Depth: Lithology: None Well Name: N/A
Acq. Date: June 10 2015 / 3:37:22 AM

Crucible: 26

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\26164.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\2015010A.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate: 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA

310.40mV/750 °C



vTPH (S1): .02 mg/g pTPH (S2): 3.30 mg/g cTemp: 443.6 °C tTemp: 482.6 °C

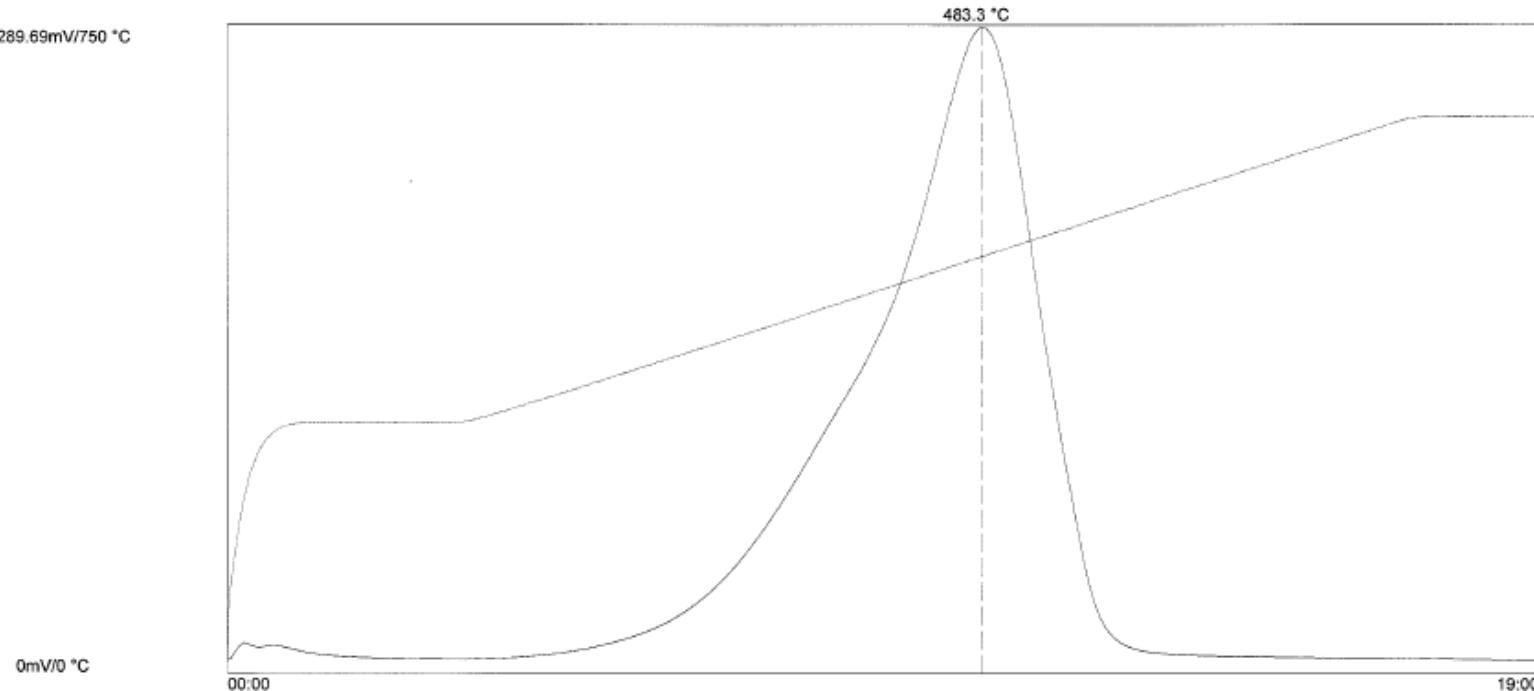
SR Analyzer - TPH Analysis

Sample ID: 26165 Acq Type: TPH Weight: 100.9
Depth: Lithology: None Well Name: N/A
Acq. Date: June 10 2015 / 4:06:09 AM Crucible: 27

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\26165.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010A\2015010A.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁴)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA

289.69mV/750 °C



vTPH (S1): .02 mg/g pTPH (S2): 3.10 mg/g cTemp: 444.3 °C tTemp: 483.3 °C

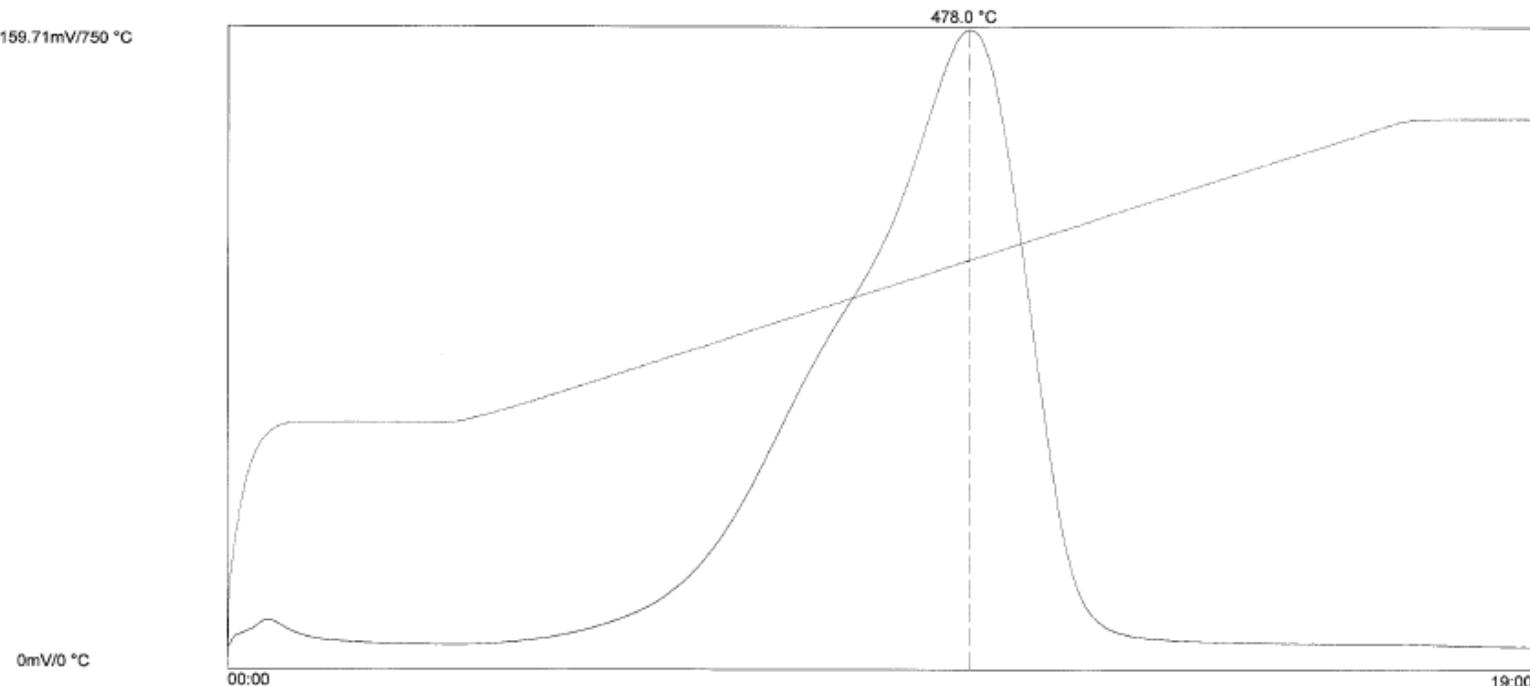
SR Analyzer - TPH Analysis

Sample ID: 26166 Acq Type: TPH Weight: 100.2 Crucible: 3
Depth: Lithology: None Well Name: N/A
Acq. Date: June 11 2015 / 5:03:07 PM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\26166.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\2015010B.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁷)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA

159.71mV/750 °C



vTPH (S1): .01 mg/g pTPH (S2): 1.81 mg/g cTemp: 439.0 °C tTemp: 478.0 °C

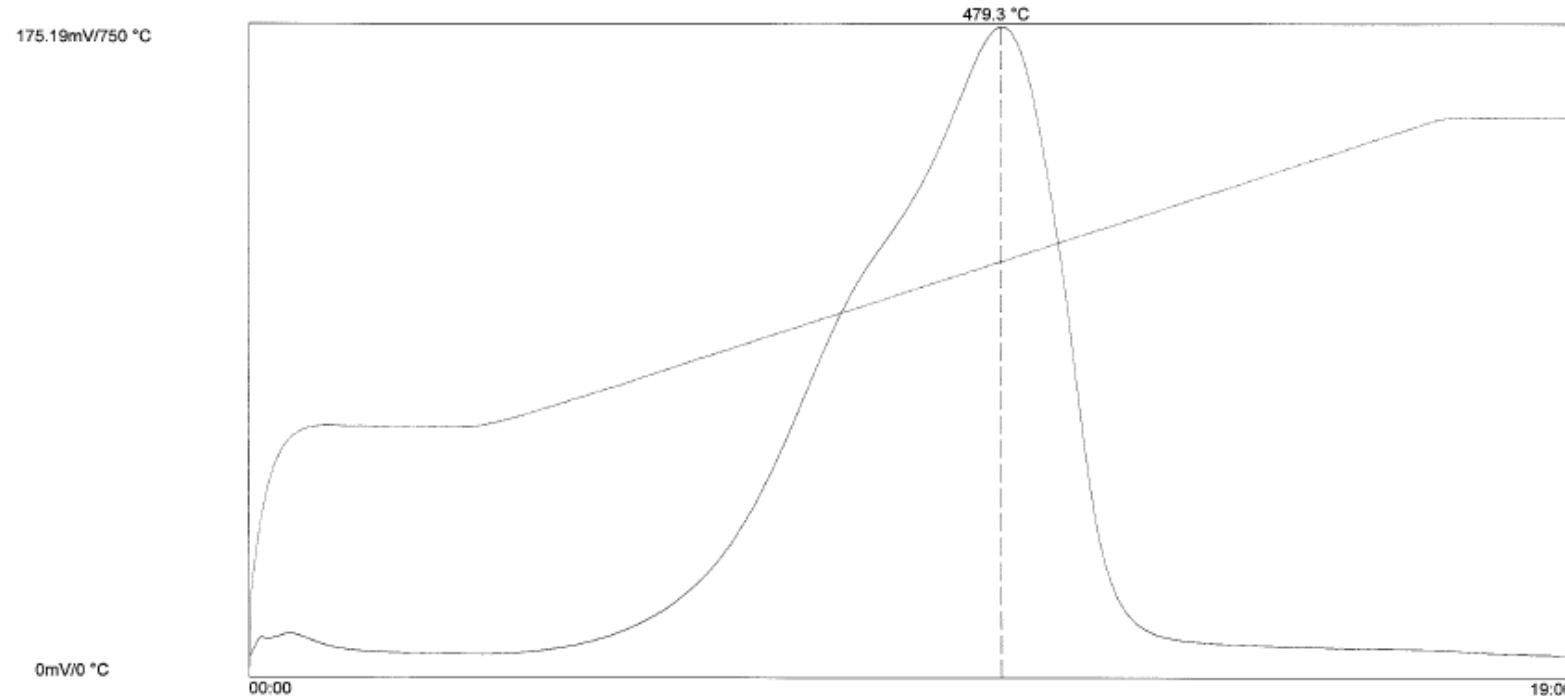
SR Analyzer - TPH Analysis

Sample ID: 26167 Acq Type: TPH Weight: 100.8
Depth: Lithology: None Well Name: N/A
Acq. Date: June 11 2015 / 5:31:39 PM

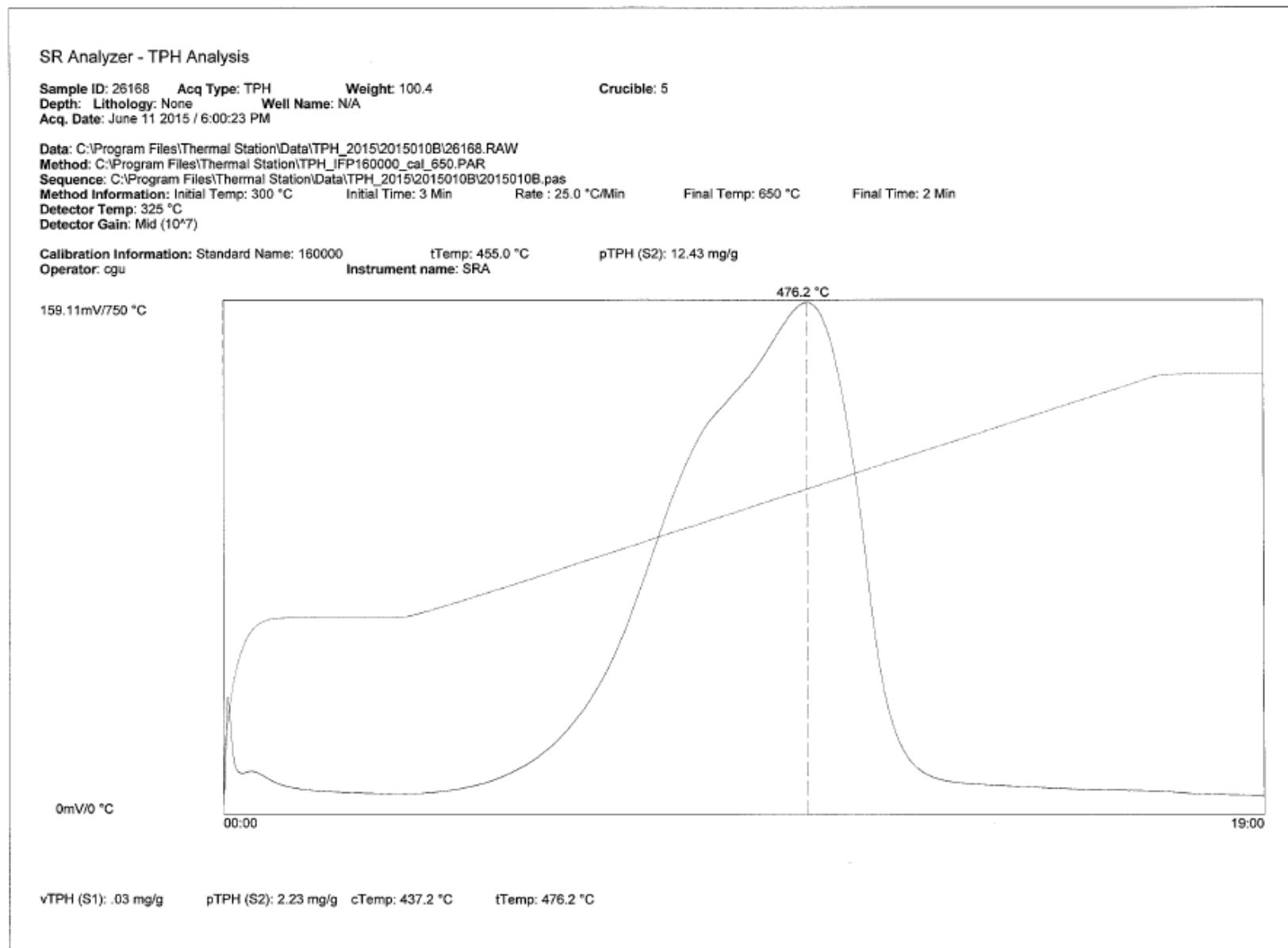
Crucible: 4

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\26167.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\2015010B.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁴)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



vTPH (S1): .01 mg/g pTPH (S2): 2.23 mg/g cTemp: 440.3 °C tTemp: 479.3 °C

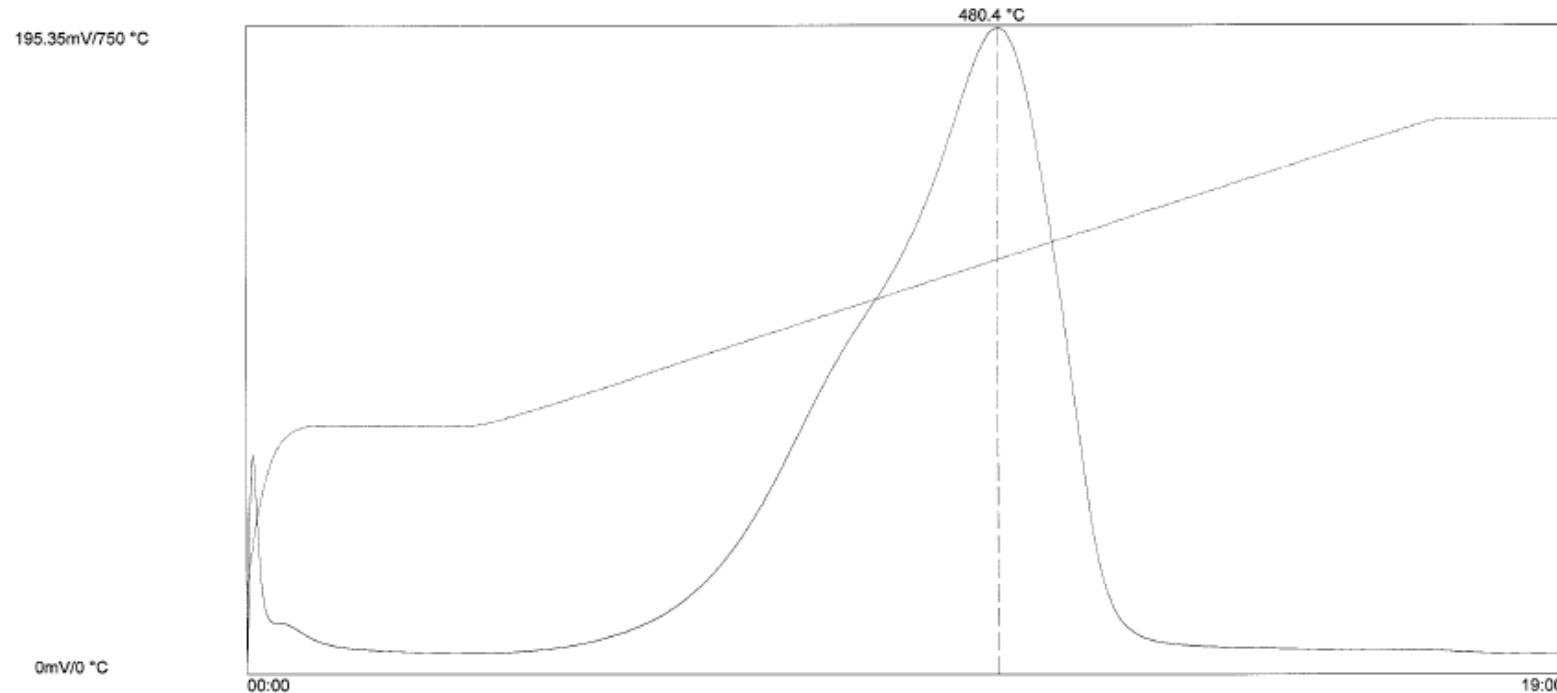


SR Analyzer - TPH Analysis

Sample ID: 26169 Acq Type: TPH Weight: 100.1
Depth: Lithology: None Well Name: N/A
Acq. Date: June 11 2015 / 6:28:56 PM Crucible: 6

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\26169.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000.cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\2015010B.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



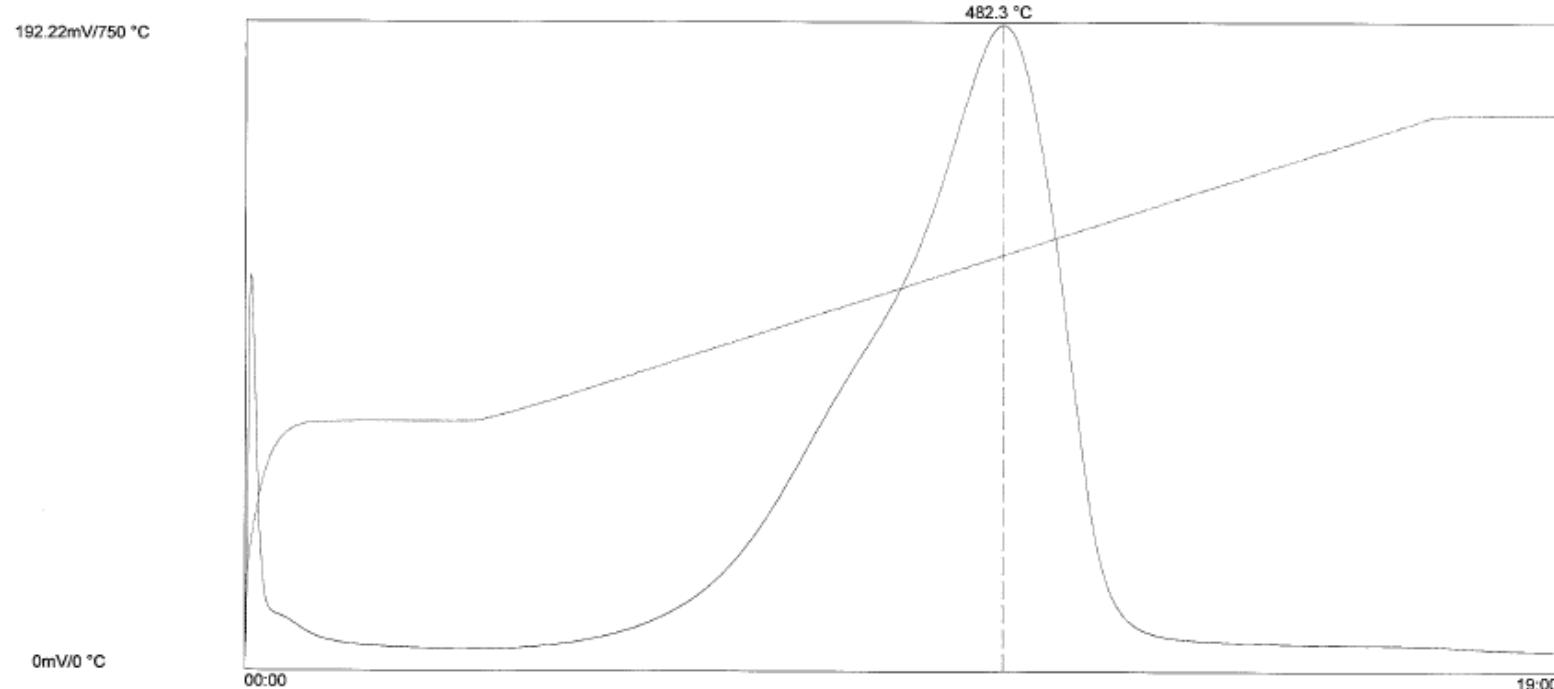
vTPH (S1): .05 mg/g pTPH (S2): 2.35 mg/g cTemp: 441.4 °C tTemp: 480.4 °C

SR Analyzer - TPH Analysis

Sample ID: 26170 Acq Type: TPH Weight: 100.5
Depth: Lithology: None Well Name: N/A
Acq. Date: June 11 2015 / 6:57:37 PM Crucible: 7

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\26170.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000.cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\2015010B.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



vTPH (S1): .08 mg/g pTPH (S2): 2.19 mg/g cTemp: 443.3 °C tTemp: 482.3 °C

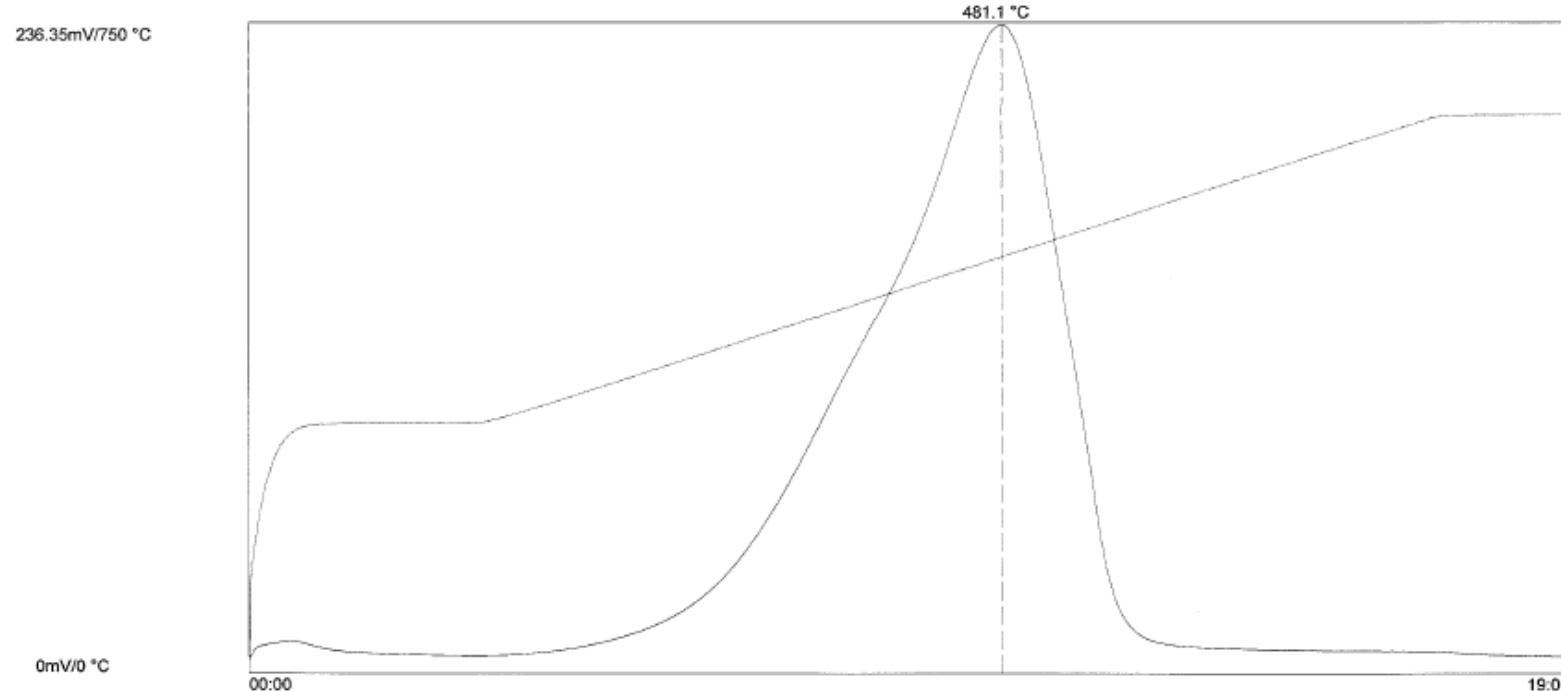
SR Analyzer - TPH Analysis

Sample ID: 26171 Acq Type: TPH Weight: 99.9
Depth: Lithology: None Well Name: N/A
Acq. Date: June 11 2015 / 7:26:13 PM

Crucible: 8

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\26171.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\2015010B.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^4)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



vTPH (S1): .01 mg/g pTPH (S2): 2.81 mg/g cTemp: 442.1 °C tTemp: 481.1 °C

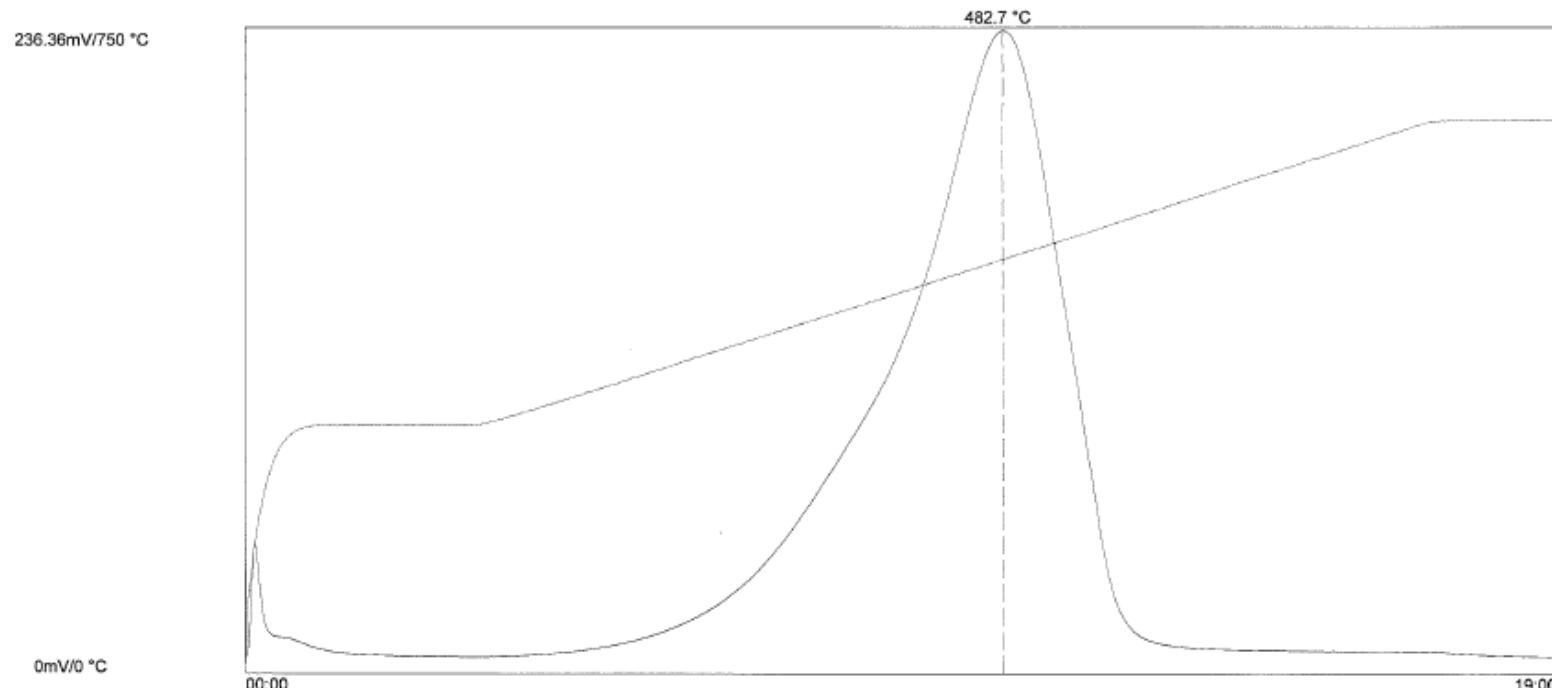
SR Analyzer - TPH Analysis

Sample ID: 26172 Acq Type: TPH Weight: 100.7 Crucible: 9
Depth: Lithology: None Well Name: N/A
Acq. Date: June 11 2015 / 7:54:53 PM

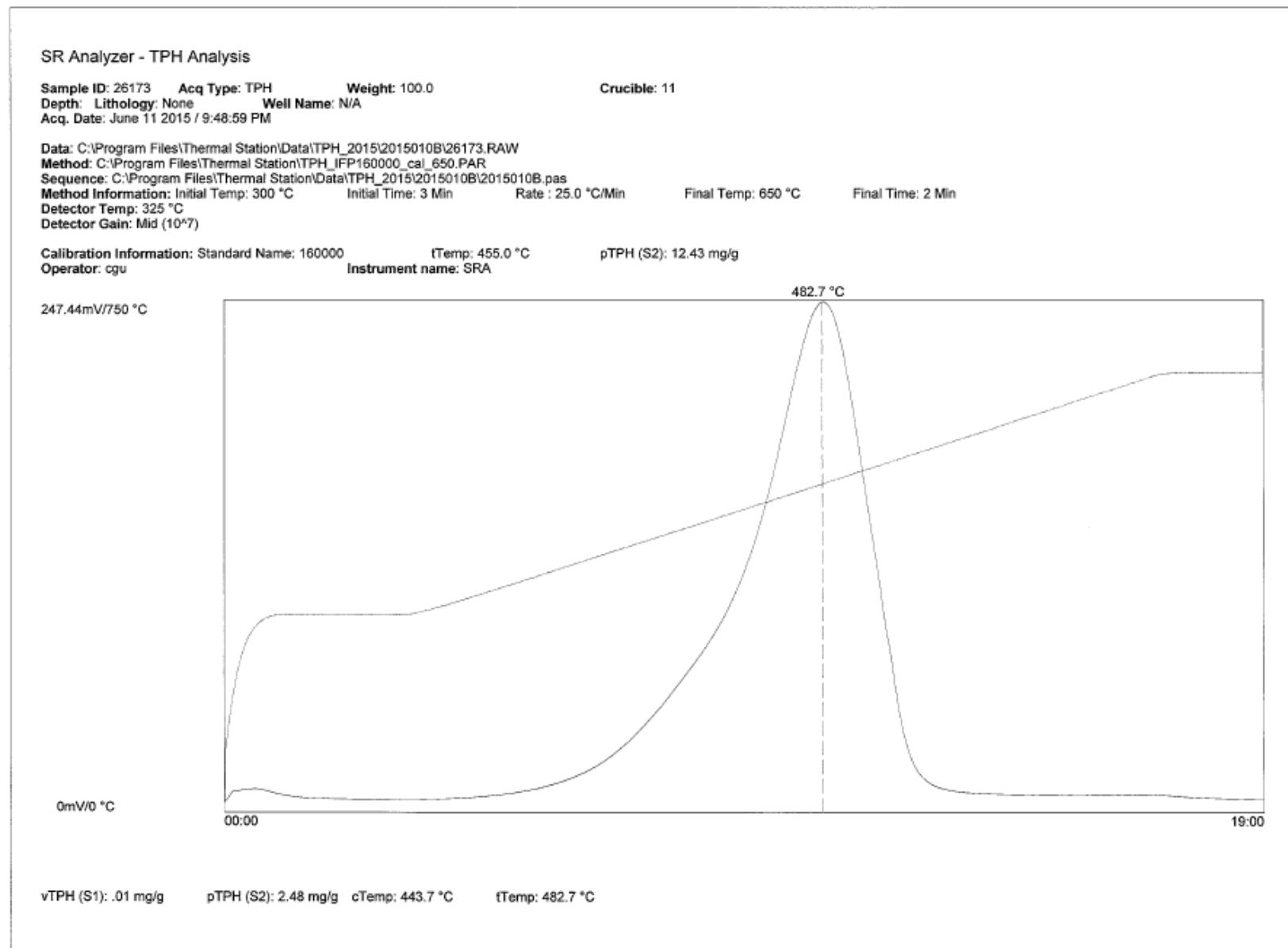
Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\26172.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\2015010B.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁷)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA

236.36mV/750 °C



vTPH (S1): .04 mg/g pTPH (S2): 2.51 mg/g cTemp: 443.7 °C tTemp: 482.7 °C



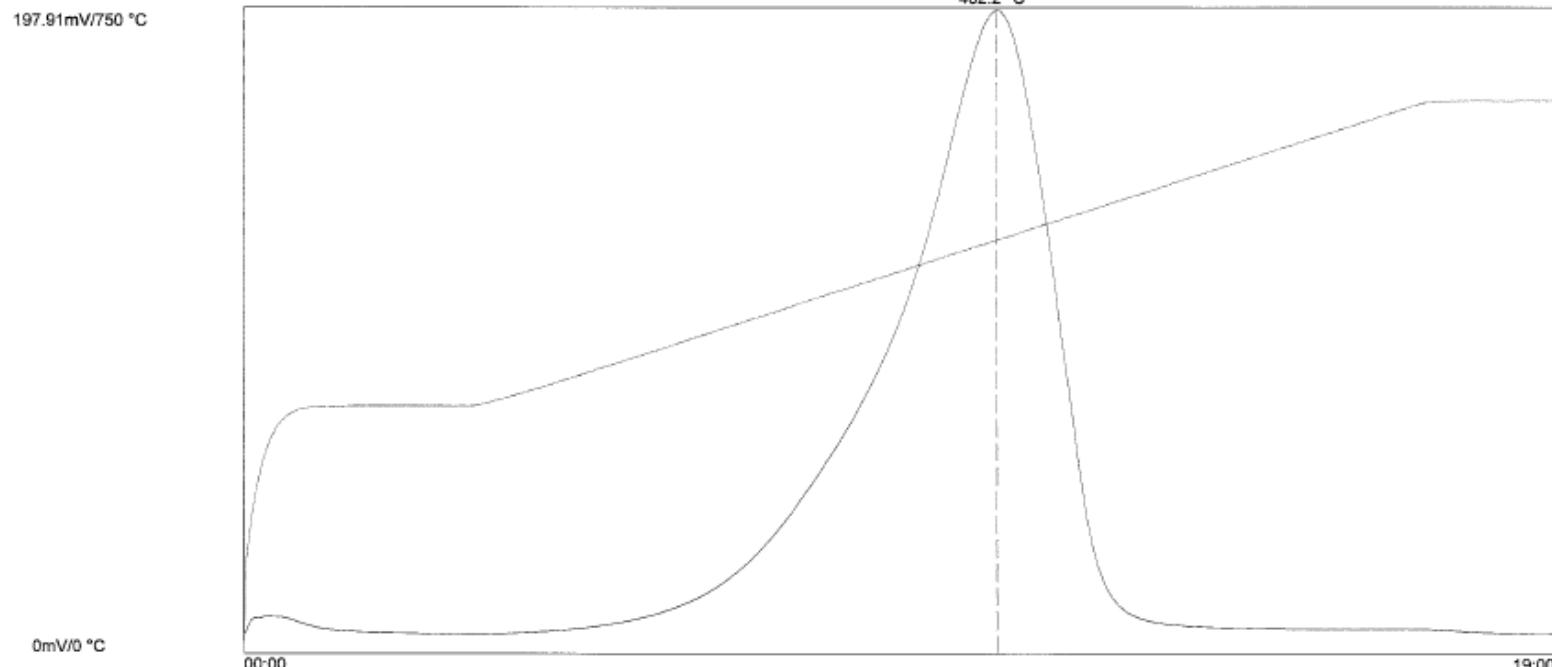
SR Analyzer - TPH Analysis

Sample ID: 26174 Acq Type: TPH Weight: 100.6
Depth: Lithology: None Well Name: N/A
Acq. Date: June 11 2015 / 10:17:32 PM

Crucible: 12

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\26174.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\2015010B.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^4)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



vTPH (S1): .01 mg/g pTPH (S2): 1.97 mg/g cTemp: 443.2 °C tTemp: 482.2 °C

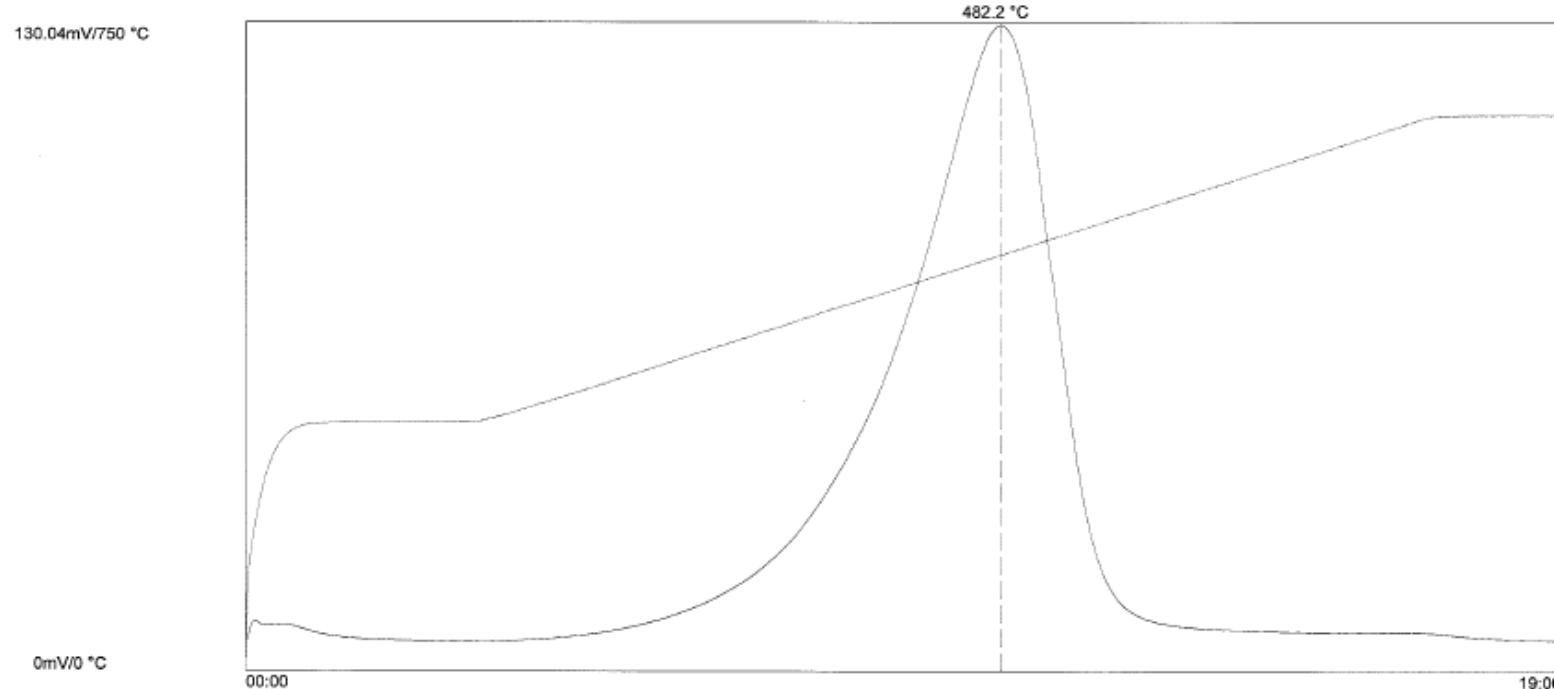
SR Analyzer - TPH Analysis

Sample ID: 26175 Acq Type: TPH Weight: 100.8
Depth: Lithology: None Well Name: N/A
Acq. Date: June 11 2015 / 10:46:03 PM

Crucible: 13

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\26175.RAW
Method: C:\Program Files\Thermal Station\TPH_FP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\2015010B.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^4)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



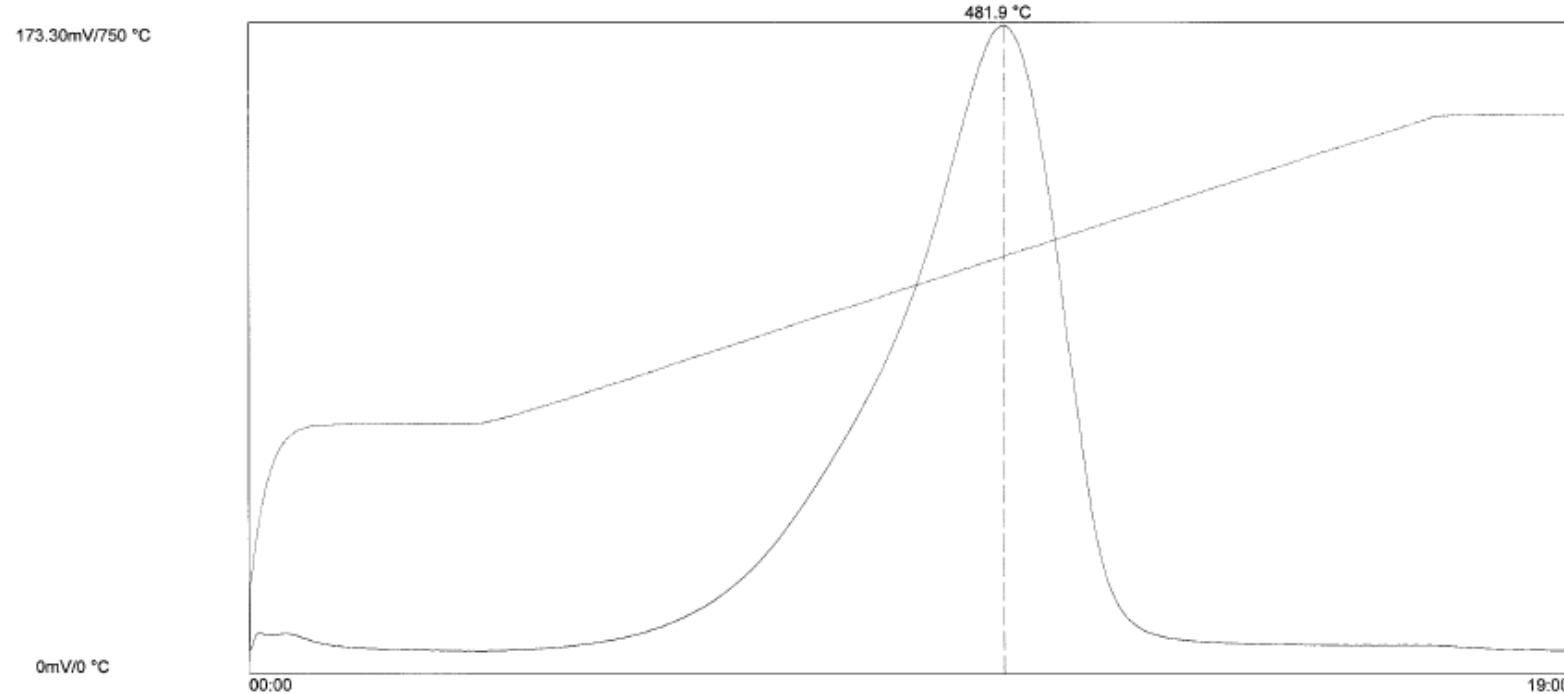
vTPH (S1): .00 mg/g pTPH (S2): 1.24 mg/g cTemp: 443.2 °C tTemp: 482.2 °C

SR Analyzer - TPH Analysis

Sample ID: 26176 Acq Type: TPH Weight: 100.9 Crucible: 14
Depth: Lithology: None Well Name: N/A
Acq. Date: June 11 2015 / 11:14:37 PM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\26176.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\2015010B.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁷)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



vTPH (S1): .01 mg/g pTPH (S2): 1.80 mg/g cTemp: 442.9 °C tTemp: 481.9 °C

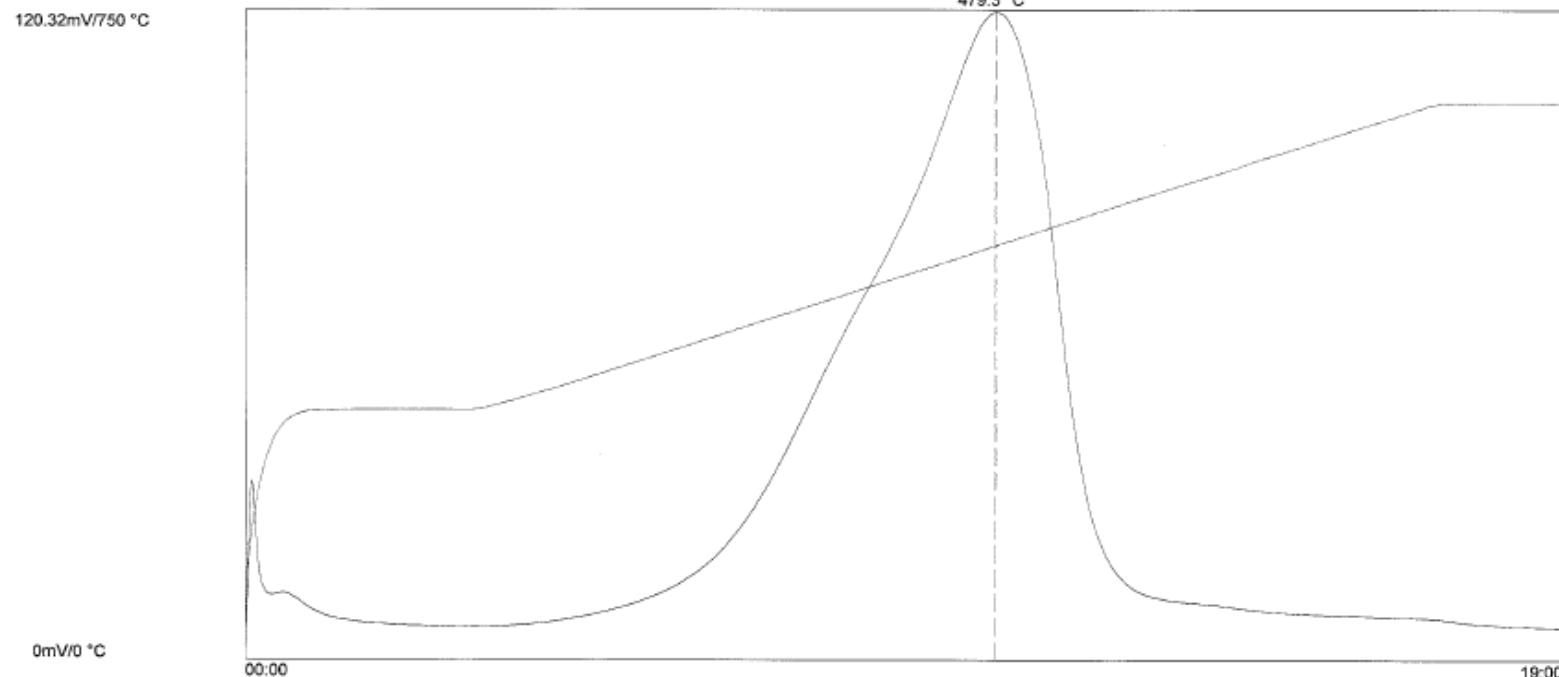
SR Analyzer - TPH Analysis

Sample ID: 26177 Acq Type: TPH Weight: 100.5
Depth: Lithology: None Well Name: N/A
Acq. Date: June 11 2015 / 11:43:11 PM

Crucible: 15

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\26177.RAW
Method: C:\Program Files\Thermal Station\TPH_1FP160000.cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\2015010B.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



vTPH (S1): .02 mg/g pTPH (S2): 1.41 mg/g cTemp: 440.3 °C tTemp: 479.3 °C

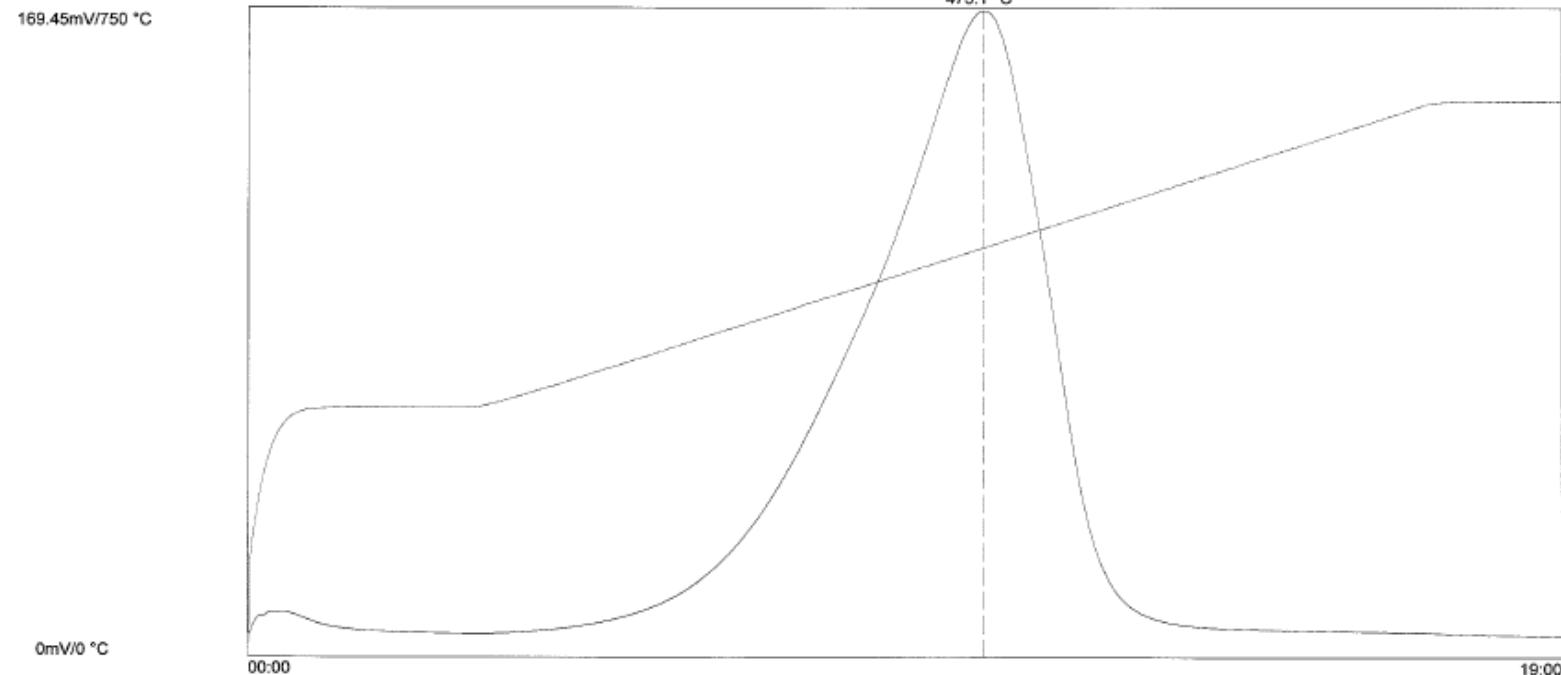
SR Analyzer - TPH Analysis

Sample ID: 26178 Acq Type: TPH Weight: 100.6
Depth: Lithology: None Well Name: N/A
Acq. Date: June 12 2015 / 12:11:50 AM

Crucible: 16

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\26178.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000.cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\2015010B.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



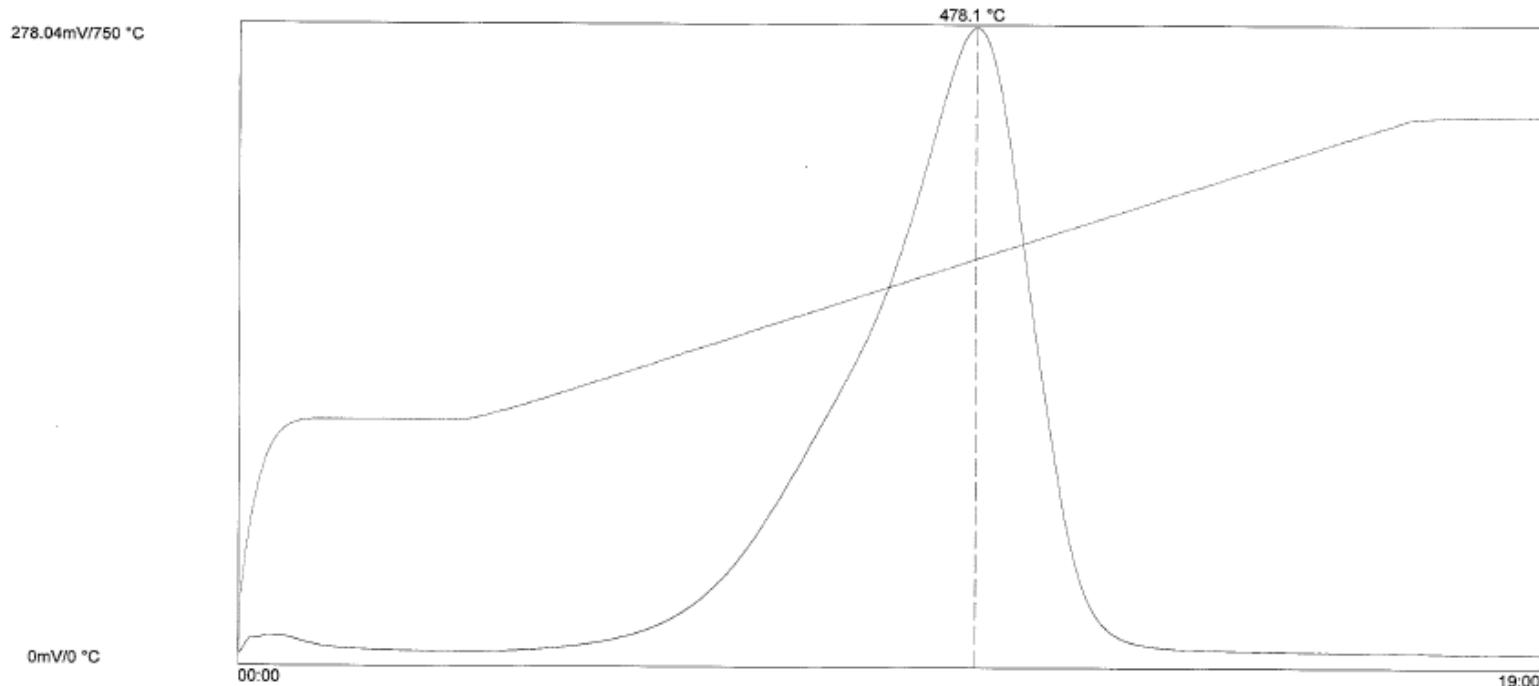
vTPH (S1): .01 mg/g pTPH (S2): 1.88 mg/g cTemp: 436.1 °C tTemp: 475.1 °C

SR Analyzer - TPH Analysis

Sample ID: 26179 Acq Type: TPH Weight: 100.8 Crucible: 17
Depth: Lithology: None Well Name: N/A
Acq. Date: June 12 2015 / 12:40:24 AM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\26179.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\2015010B.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^4)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



vTPH (S1): .02 mg/g pTPH (S2): 2.92 mg/g cTemp: 439.1 °C fTemp: 478.1 °C

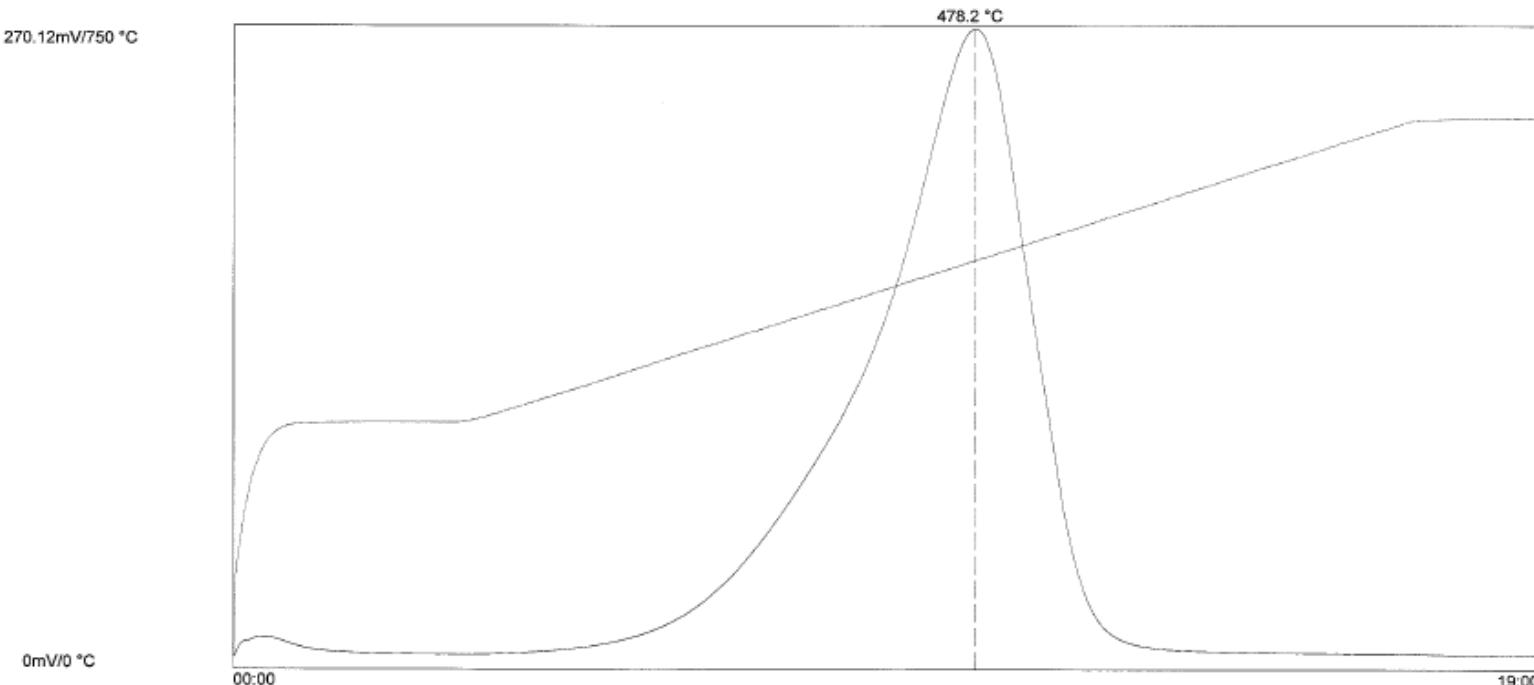
SR Analyzer - TPH Analysis

Sample ID: 26180 Acq Type: TPH Weight: 99.9
Depth: Lithology: None Well Name: N/A
Crucible: 19
Acq. Date: June 12 2015 / 2:34:41 AM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\26180.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\2015010B.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^4)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA

270.12mV/750 °C



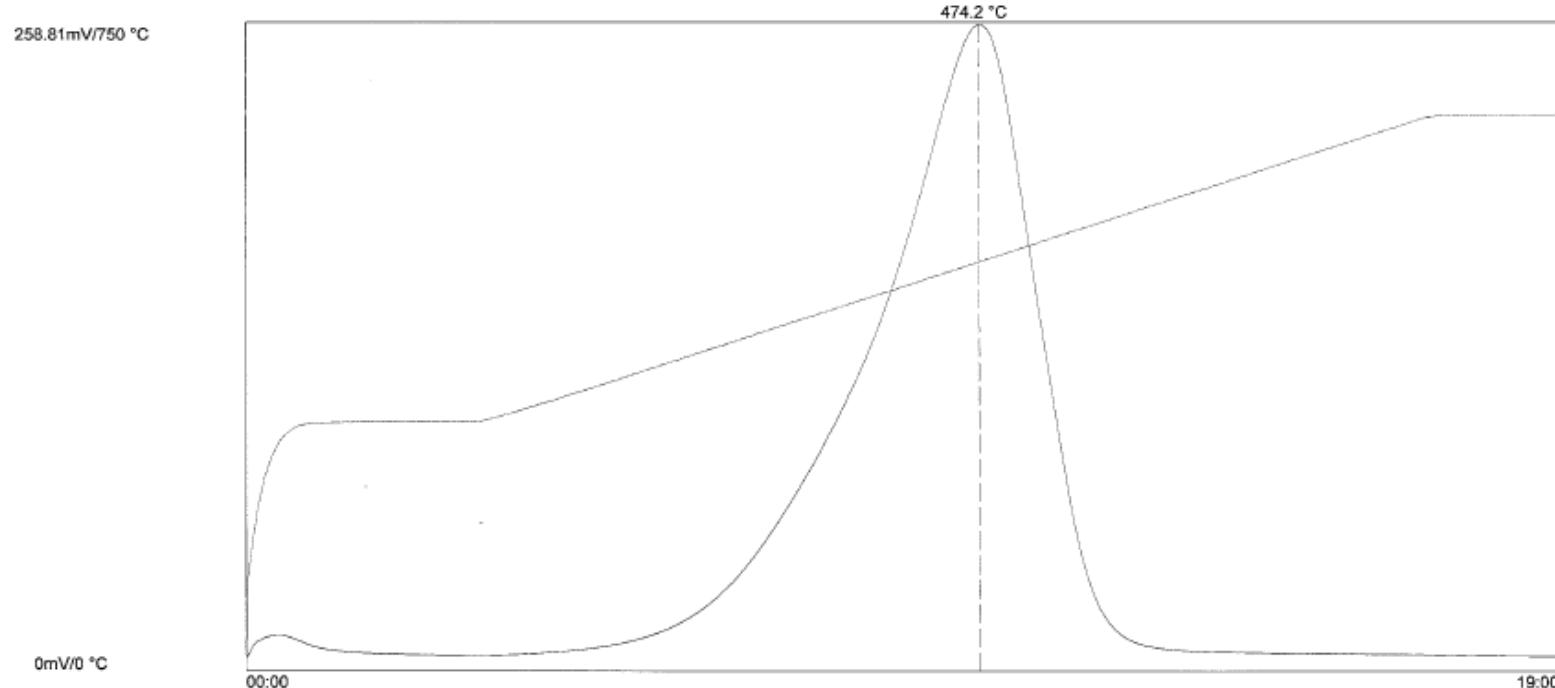
vTPH (S1): .02 mg/g pTPH (S2): 2.76 mg/g cTemp: 439.2 °C tTemp: 478.2 °C

SR Analyzer - TPH Analysis

Sample ID: 26181 Acq Type: TPH Weight: 100.5
Depth: Lithology: None Well Name: N/A
Acq. Date: June 12 2015 / 3:03:08 AM Crucible: 20

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\26181.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\2015010B.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁴)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



vTPH (S1): .02 mg/g pTPH (S2): 2.68 mg/g cTemp: 435.2 °C tTemp: 474.2 °C

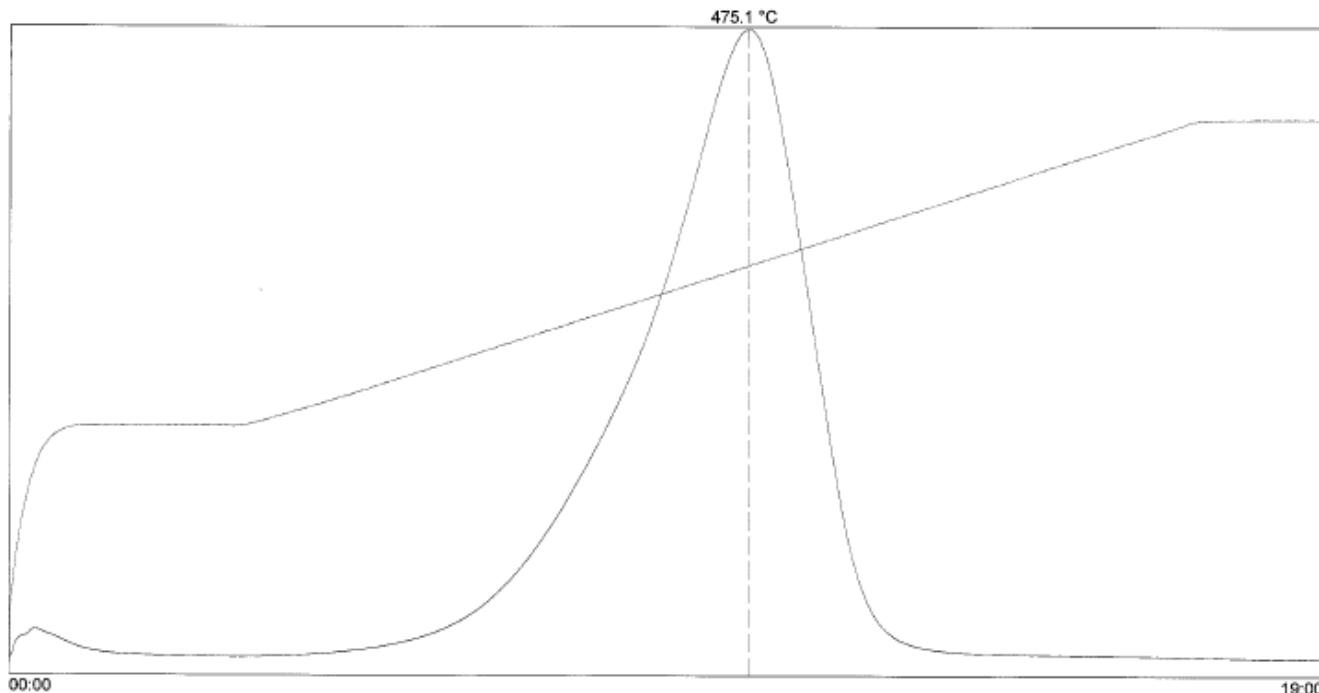
SR Analyzer - TPH Analysis

Sample ID: 26182 Acq Type: TPH Weight: 100.7
Depth: Lithology: None Well Name: N/A
Acq. Date: June 12 2015 / 3:31:43 AM Crucible: 21

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\26182.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\2015010B.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA

217.93mV/750 °C



vTPH (S1): .02 mg/g pTPH (S2): 2.24 mg/g cTemp: 436.1 °C tTemp: 475.1 °C

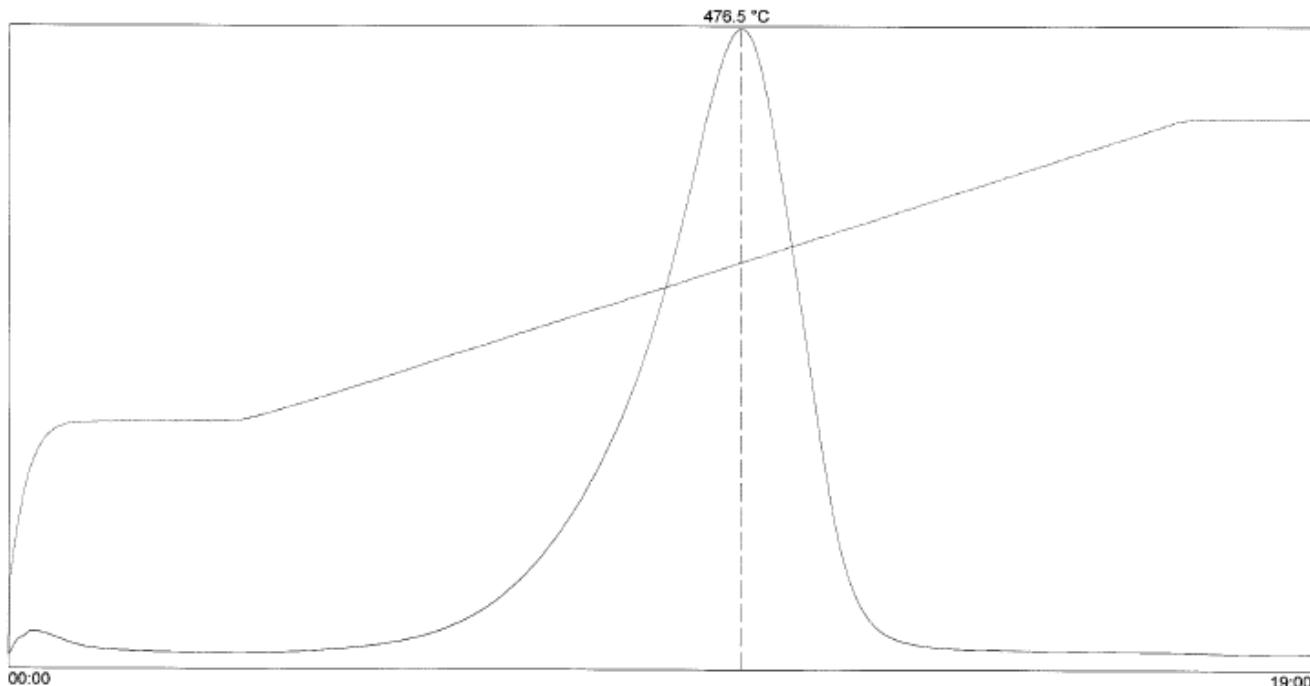
SR Analyzer - TPH Analysis

Sample ID: 26183 Acq Type: TPH Weight: 100.3 Crucible: 22
Depth: Lithology: None Well Name: N/A
Acq. Date: June 12 2015 / 4:00:23 AM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\26183.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\2015010B.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA

242.11mV/750 °C



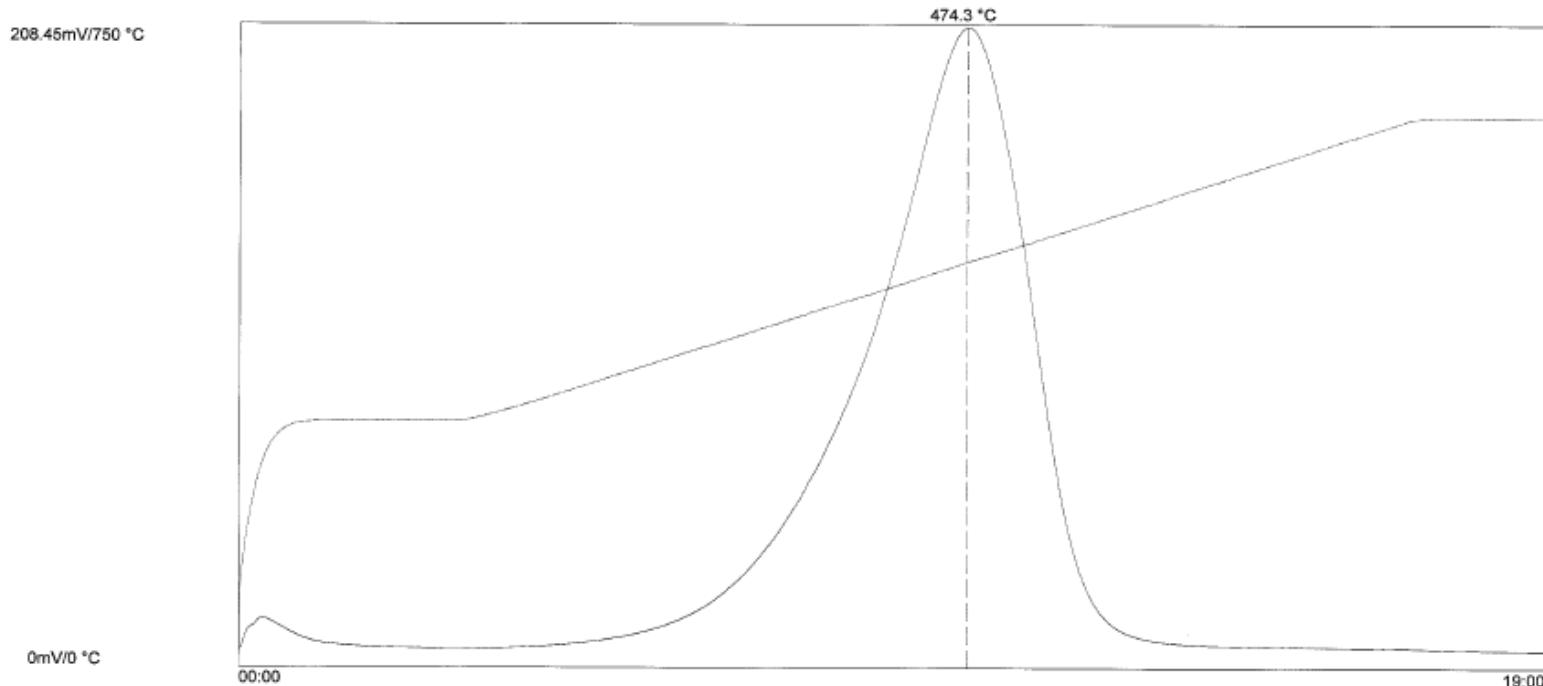
vTPH (S1): .02 mg/g pTPH (S2): 2.34 mg/g cTemp: 437.5 °C tTemp: 476.5 °C

SR Analyzer - TPH Analysis

Sample ID: 26184 Acq Type: TPH Weight: 100.0 Crucible: 23
Depth: Lithology: None Well Name: N/A
Acq. Date: June 12 2015 / 4:28:59 AM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\26184.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\2015010B.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁷)

Calibration Information: Standard Name: 1600000
Operator: cgu tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Instrument name: SRA



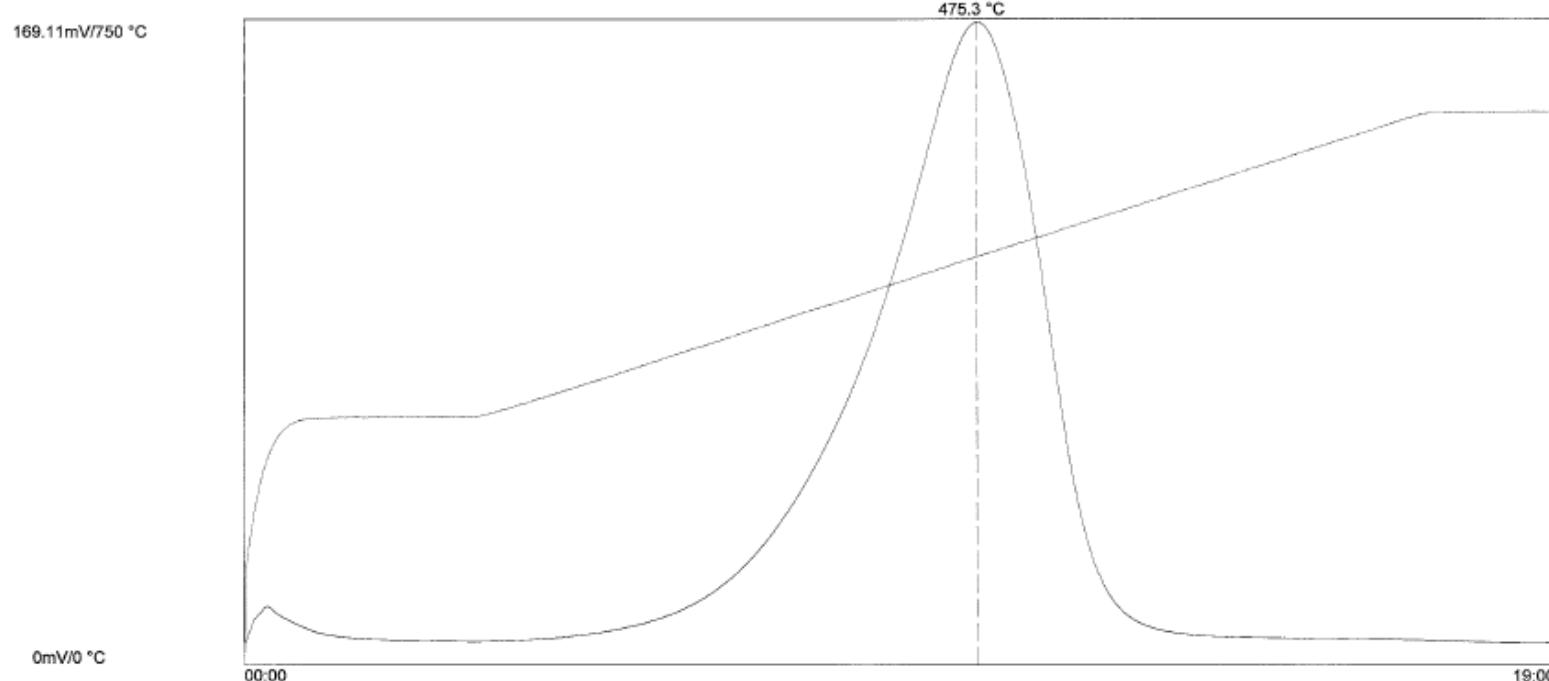
vTPH (S1): .02 mg/g pTPH (S2): 2.09 mg/g cTemp: 435.3 °C tTemp: 474.3 °C

SR Analyzer - TPH Analysis

Sample ID: 26185 Acq Type: TPH Weight: 100.3
Depth: Lithology: None Well Name: N/A
Acq. Date: June 12 2015 / 4:57:38 AM Crucible: 24

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\26185.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\2015010B.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁴)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



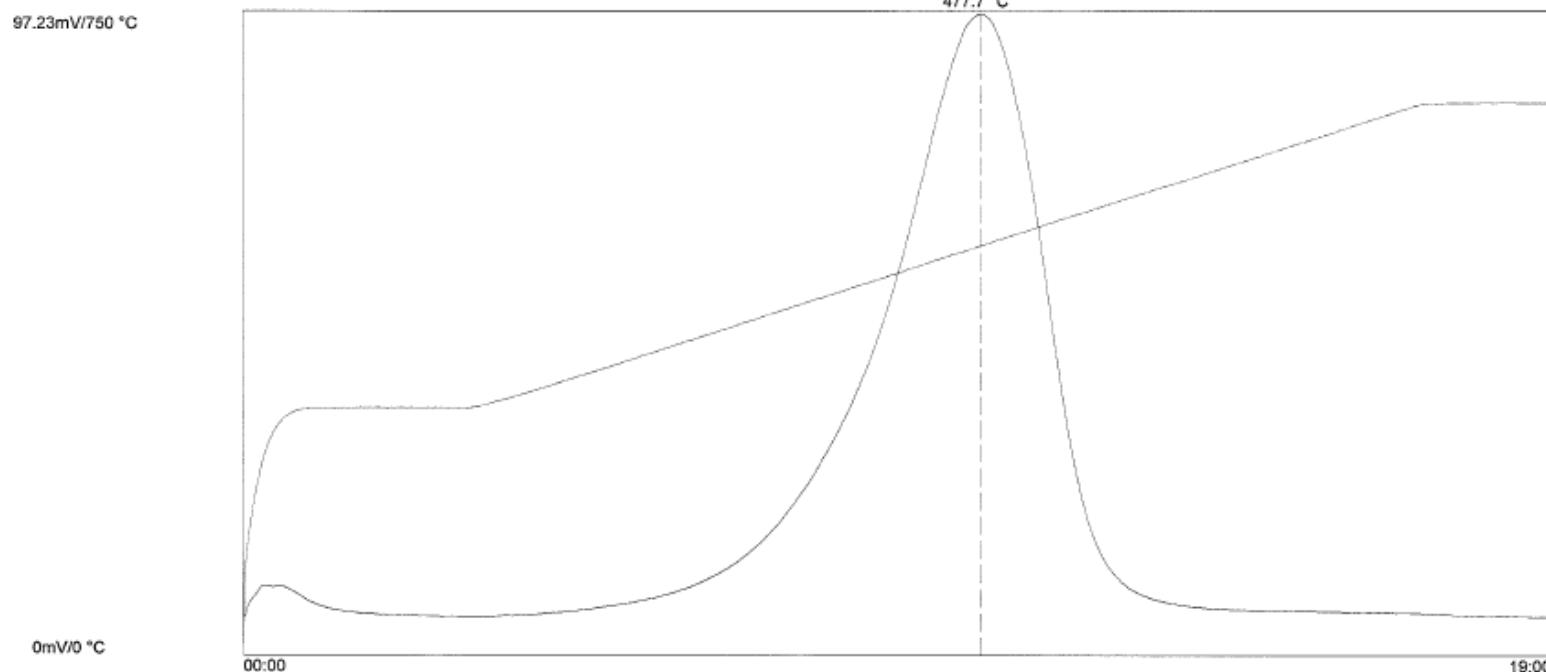
vTPH (S1): .01 mg/g pTPH (S2): 1.76 mg/g cTemp: 436.3 °C tTemp: 475.3 °C

SR Analyzer - TPH Analysis

Sample ID: 26186 Acq Type: TPH Weight: 100.6
Depth: Lithology: None Well Name: N/A
Crucible: 25
Acq. Date: June 12 2015 / 5:26:14 AM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\26186.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP16000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010B\2015010B.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁴)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



vTPH (S1): .00 mg/g pTPH (S2): .91 mg/g cTemp: 438.7 °C tTemp: 477.7 °C

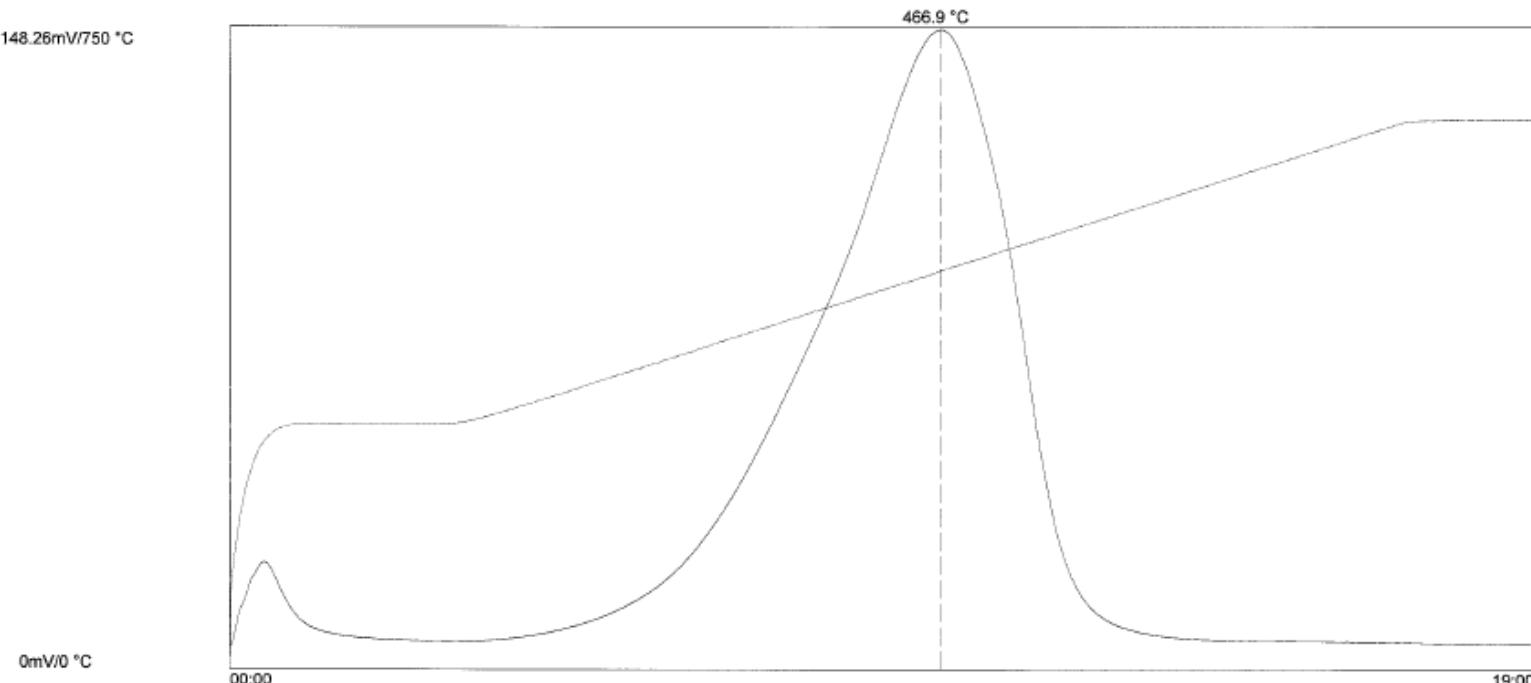
SR Analyzer - TPH Analysis

Sample ID: 26187 Acq Type: TPH Weight: 100.0 Crucible: 3
Depth: Lithology: None Well Name: N/A
Acq. Date: June 15 2015 / 2:25:46 PM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010C\26187.RAW
Method: C:\Program Files\Thermal Station\TPH_JFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010C\2015010C.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁴)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA

148.26mV/750 °C



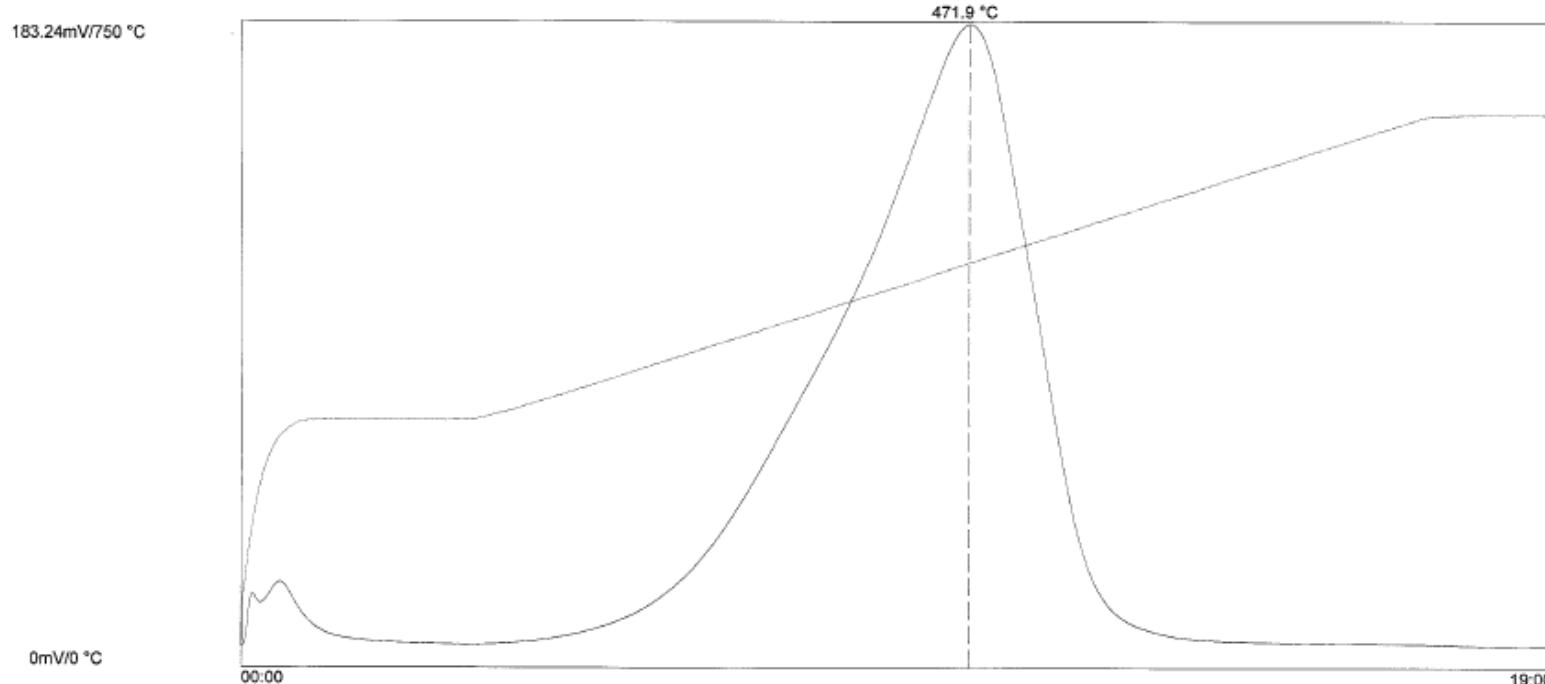
vTPH (S1): .05 mg/g pTPH (S2): 1.77 mg/g cTemp: 427.9 °C tTemp: 466.9 °C

SR Analyzer - TPH Analysis

Sample ID: 26188 Acq Type: TPH Weight: 100.4
Depth: Lithology: None Well Name: N/A
Acq. Date: June 15 2015 / 2:54:22 PM Crucible: 4

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010C\26188.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010C\2015010C.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



vTPH (S1): .05 mg/g pTPH (S2): 2.19 mg/g cTemp: 432.9 °C tTemp: 471.9 °C

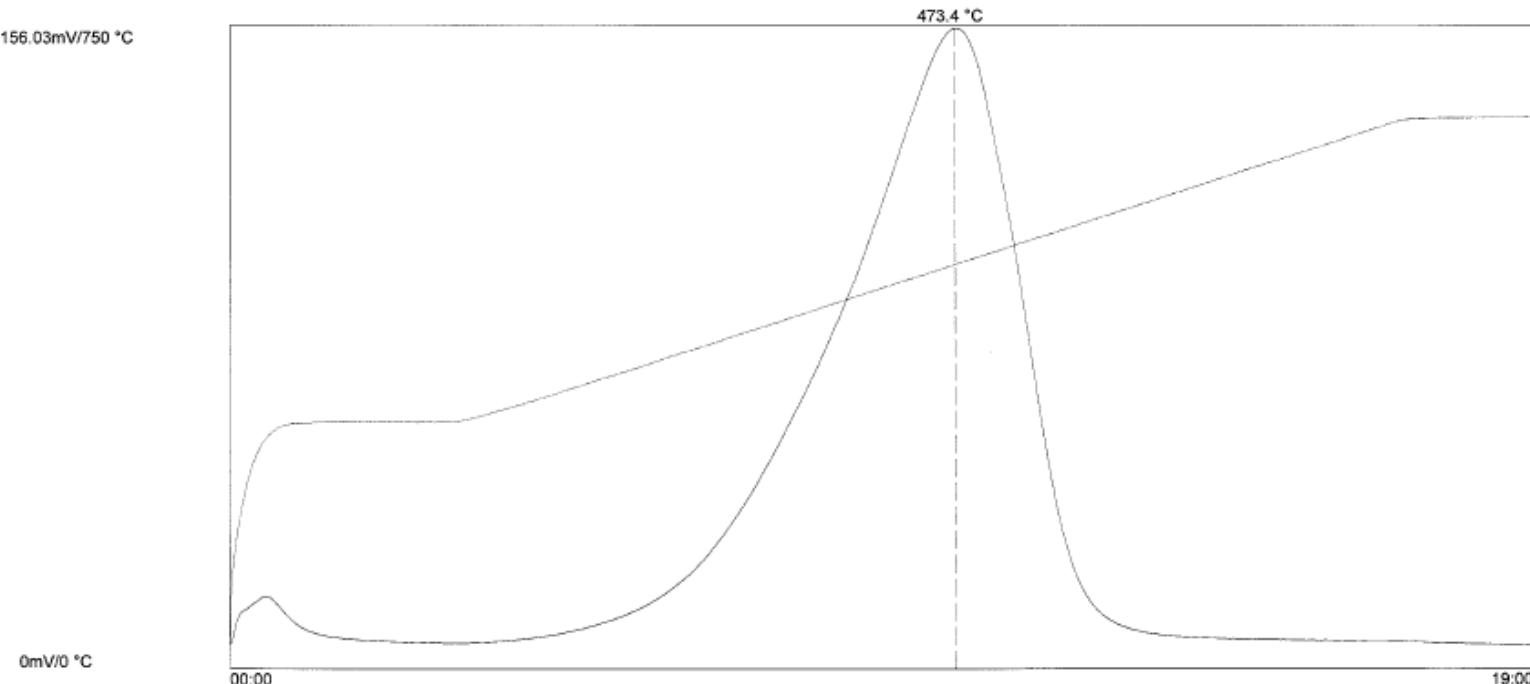
SR Analyzer - TPH Analysis

Sample ID: 26189 Acq Type: TPH Weight: 100.5 Crucible: 5
Depth: Lithology: None Well Name: N/A
Acq. Date: June 15 2015 / 3:23:03 PM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010C\26189.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010C\2015010C.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁴)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA

155.03mV/750 °C



vTPH (S1): .03 mg/g pTPH (S2): 1.79 mg/g cTemp: 434.4 °C tTemp: 473.4 °C

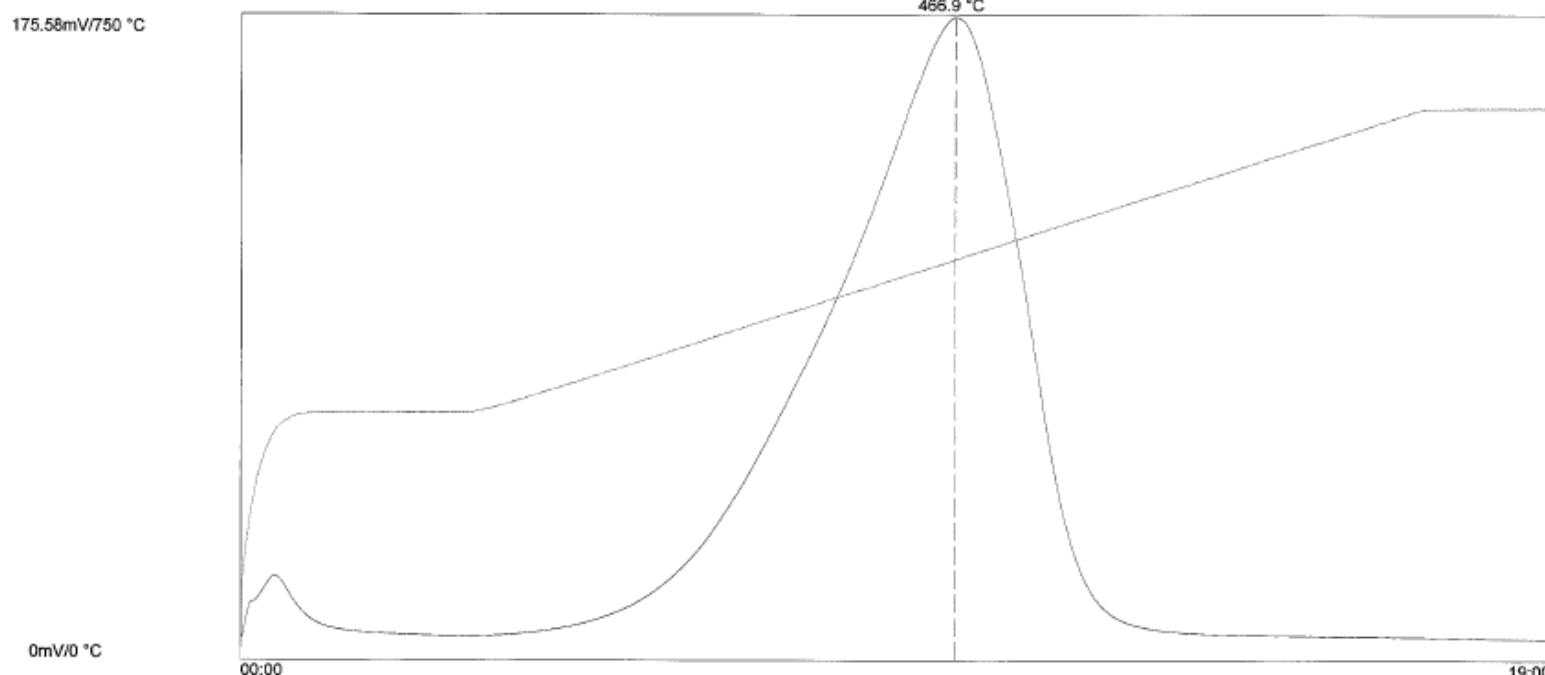
SR Analyzer - TPH Analysis

Sample ID: 26190 Acq Type: TPH Weight: 100.3
Depth: Lithology: None Well Name: N/A
Acq. Date: June 15 2015 / 3:51:35 PM

Crucible: 6

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010C\26190.RAW
Method: C:\Program Files\Thermal Station\TPH_1FP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010C\2015010C.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁴)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



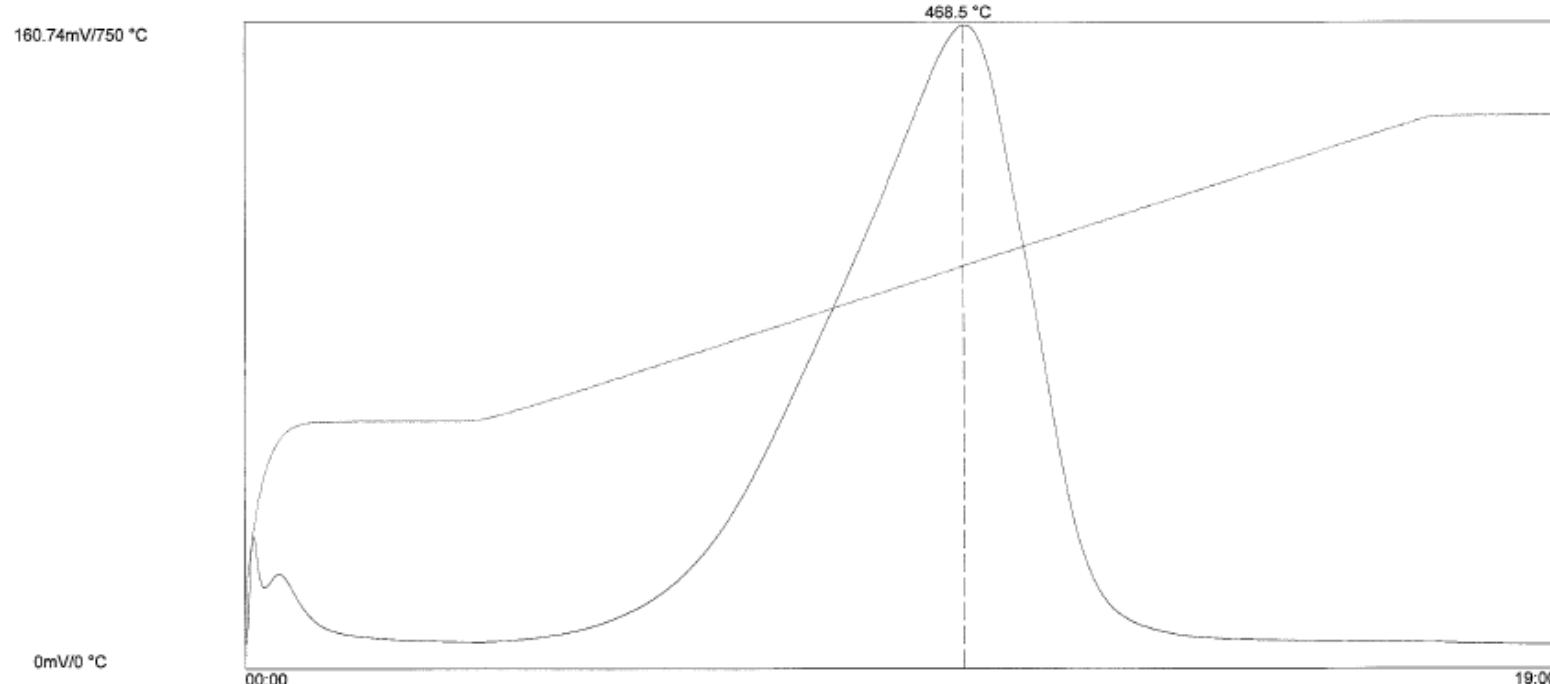
vTPH (S1): .04 mg/g pTPH (S2): 2.08 mg/g cTemp: 427.9 °C tTemp: 466.9 °C

SR Analyzer - TPH Analysis

Sample ID: 26191 Acq Type: TPH Weight: 100.2
Depth: Lithology: None Well Name: N/A
Acq. Date: June 15 2015 / 4:20:10 PM Crucible: 7

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010C\26191.RAW
Method: C:\Program Files\Thermal Station\TPH_1FP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010C\2015010C.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



vTPH (S1): .05 mg/g pTPH (S2): 1.96 mg/g cTemp: 429.5 °C tTemp: 468.5 °C

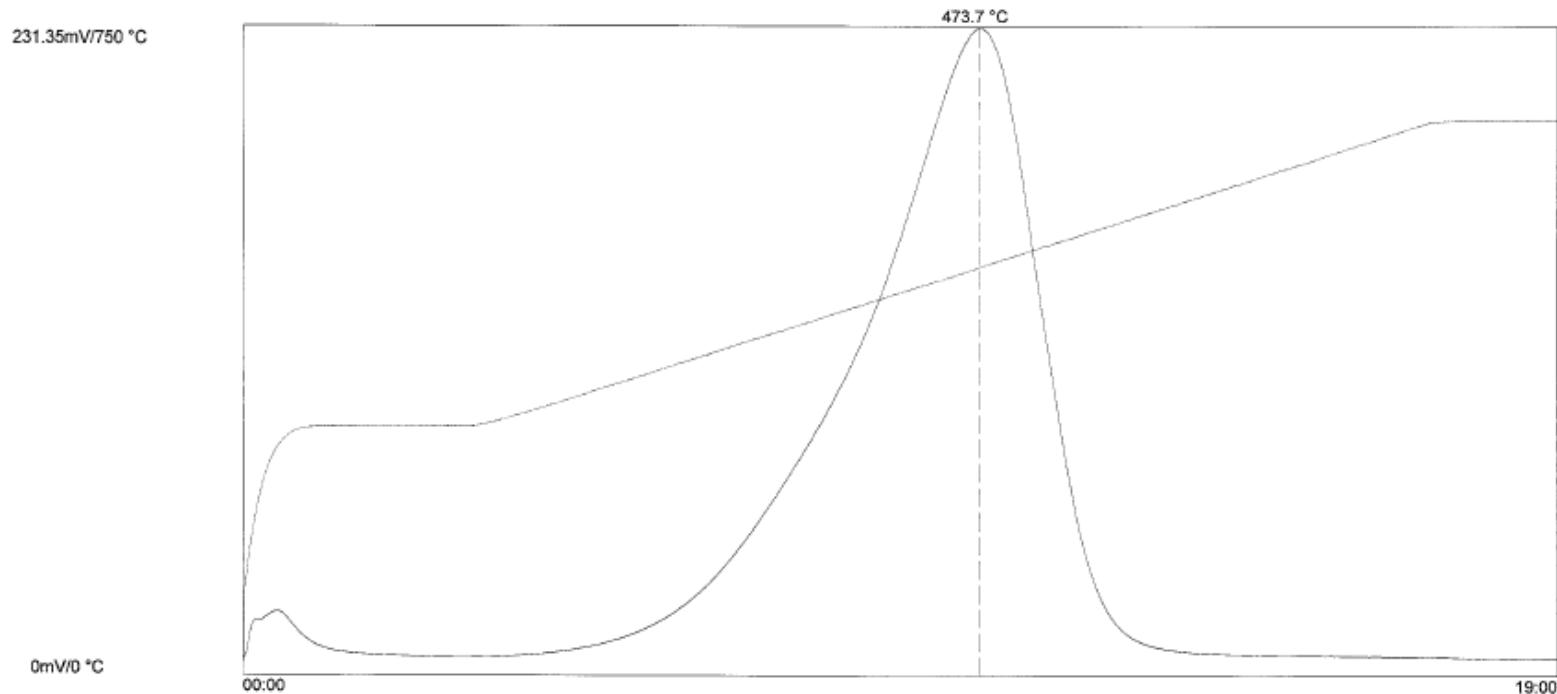
SR Analyzer - TPH Analysis

Sample ID: 26192 Acq Type: TPH Weight: 100.3
Depth: Lithology: None Well Name: N/A
Acq. Date: June 15 2015 / 4:48:43 PM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010C\26192.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010C\2015010C.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate: 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA

231.35mV/750 °C



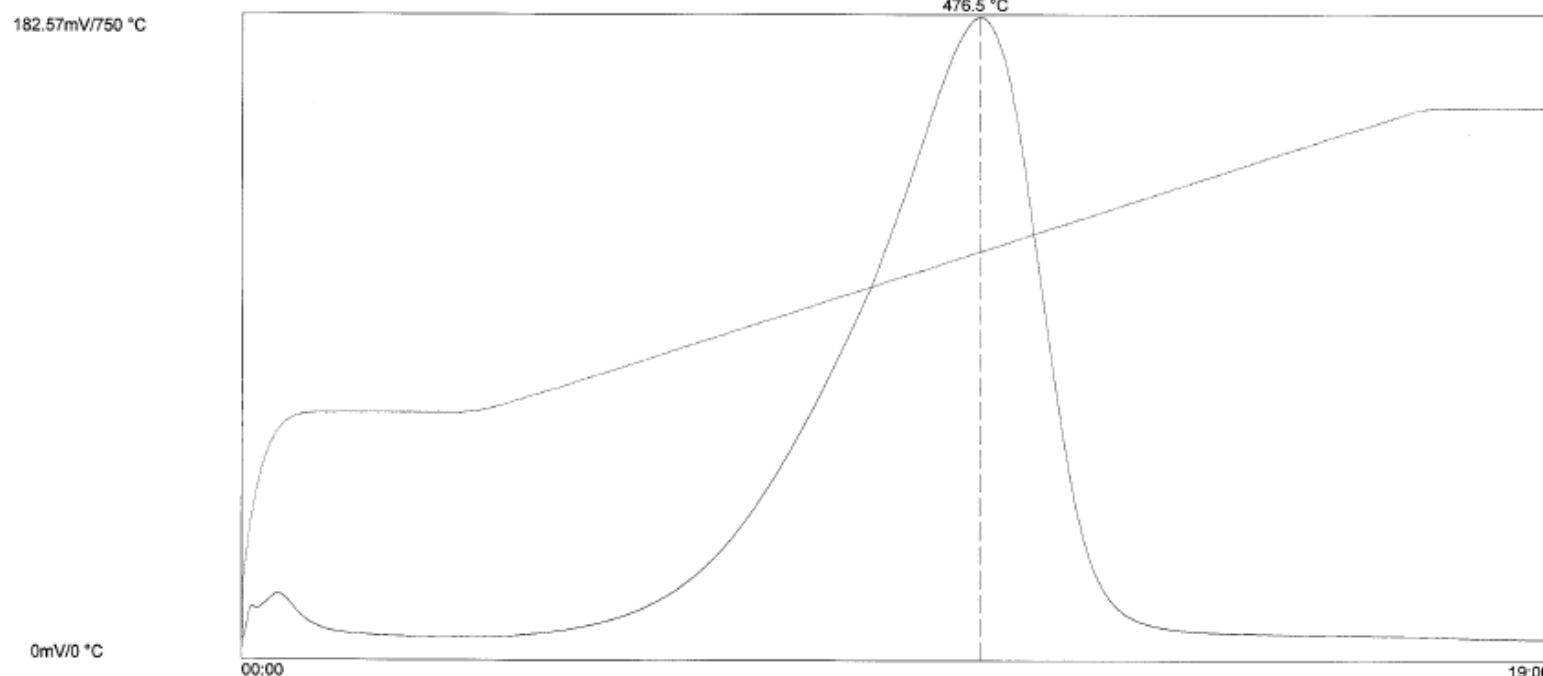
vTPH (S1): .05 mg/g pTPH (S2): 2.63 mg/g cTemp: 434.7 °C tTemp: 473.7 °C

SR Analyzer - TPH Analysis

Sample ID: 26193 Acq Type: TPH Weight: 100.3
Depth: Lithology: None Well Name: N/A
Acq. Date: June 15 2015 / 5:17:14 PM Crucible: 9

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010C\26193.RAW
Method: C:\Program Files\Thermal Station\TPH_1FP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010C\2015010C.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate: 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



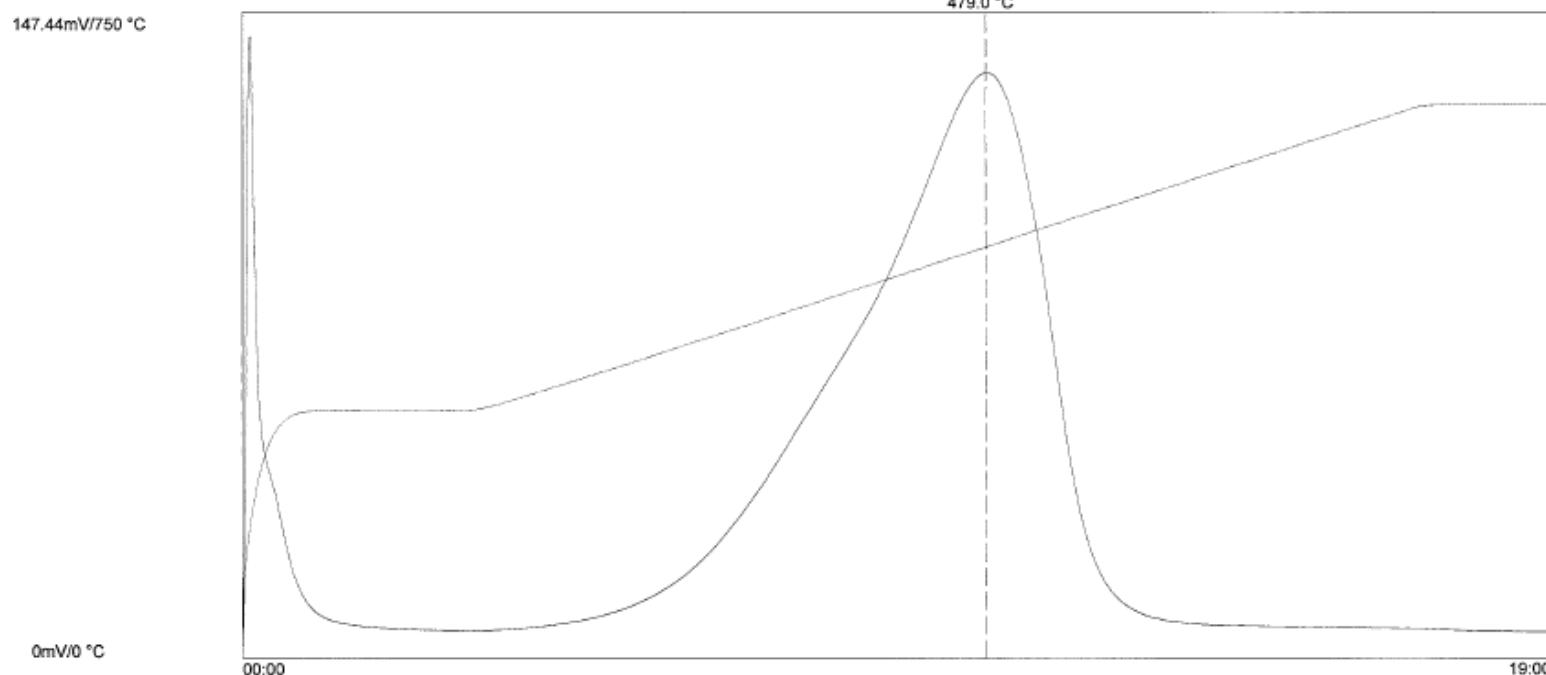
vTPH (S1): .03 mg/g pTPH (S2): 2.11 mg/g cTemp: 437.5 °C tTemp: 476.5 °C

SR Analyzer - TPH Analysis

Sample ID: 26194 Acq Type: TPH Weight: 100.0 Crucible: 10
Depth: Lithology: None Well Name: N/A
Acq. Date: June 15 2015 / 5:45:48 PM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010C\26194.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010C\2015010C.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^4)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



vTPH (S1): .14 mg/g pTPH (S2): 1.60 mg/g cTemp: 440.0 °C tTemp: 479.0 °C

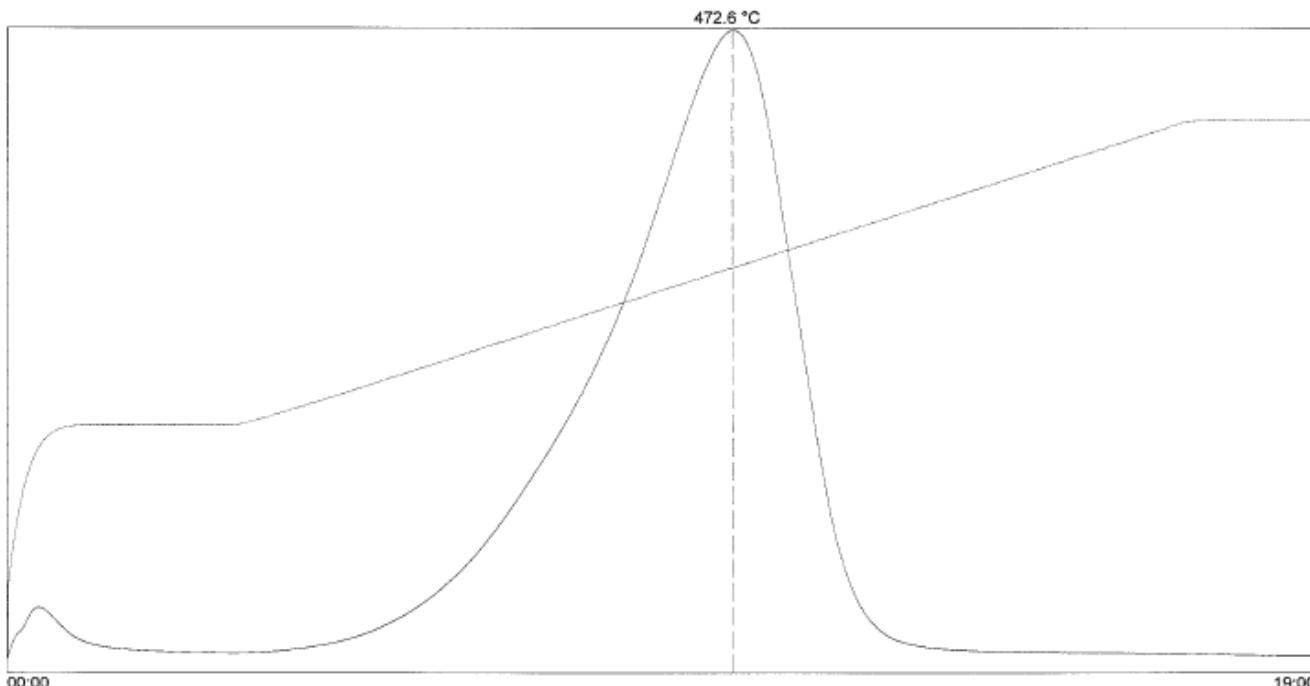
SR Analyzer - TPH Analysis

Sample ID: 26195 Acq Type: TPH Weight: 100.9 Crucible: 3
Depth: Lithology: None Well Name: N/A
Acq. Date: June 23 2015 / 1:11:24 PM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\26195.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\2015010D.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgw Instrument name: SRA

223.23mV/750 °C



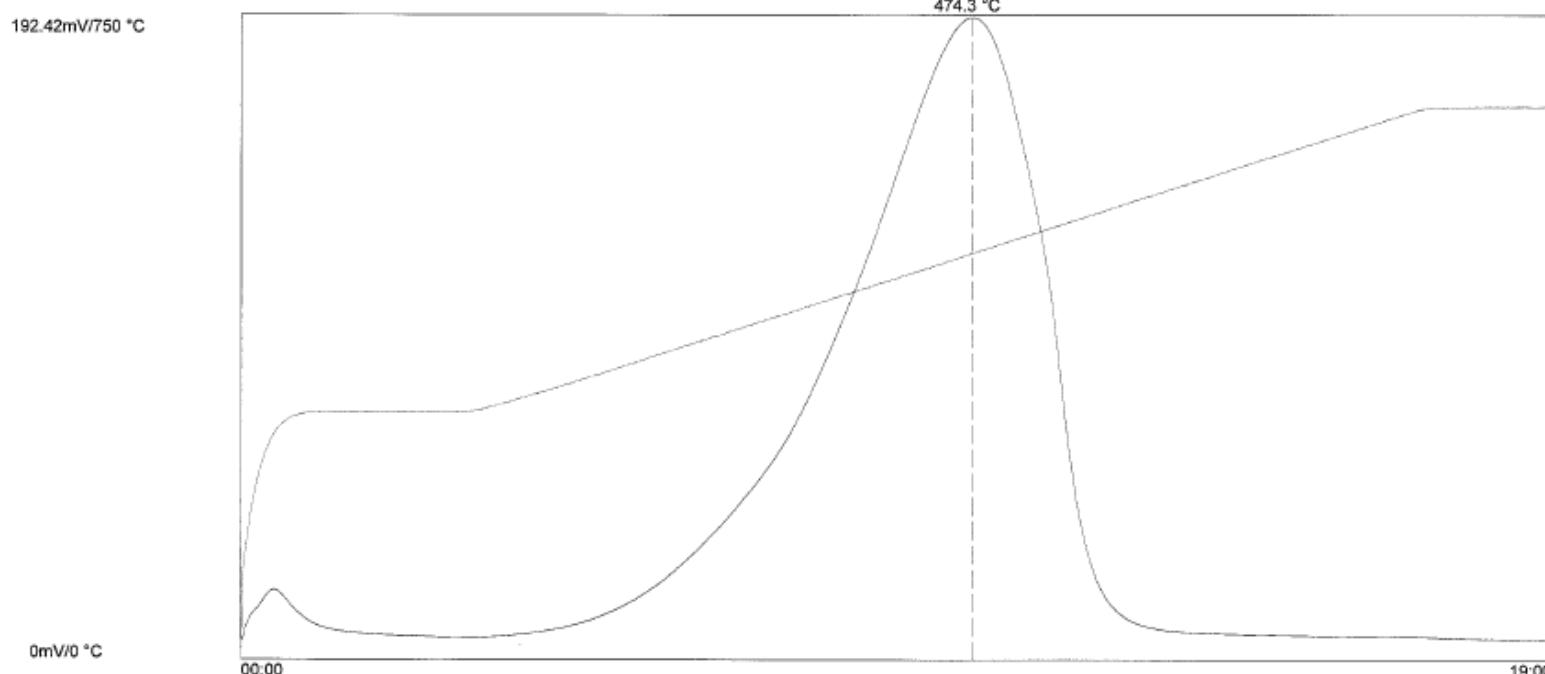
vTPH (S1): .05 mg/g pTPH (S2): 2.52 mg/g cTemp: 433.6 °C tTemp: 472.6 °C

SR Analyzer - TPH Analysis

Sample ID: 26196 Acq Type: TPH Weight: 100.5
Depth: Lithology: None Well Name: N/A
Acq. Date: June 23 2015 / 1:39:59 PM Crucible: 4

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\26196.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\2015010D.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate: 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^{A7})

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



vTPH (S1): .04 mg/g pTPH (S2): 2.31 mg/g cTemp: 435.3 °C tTemp: 474.3 °C

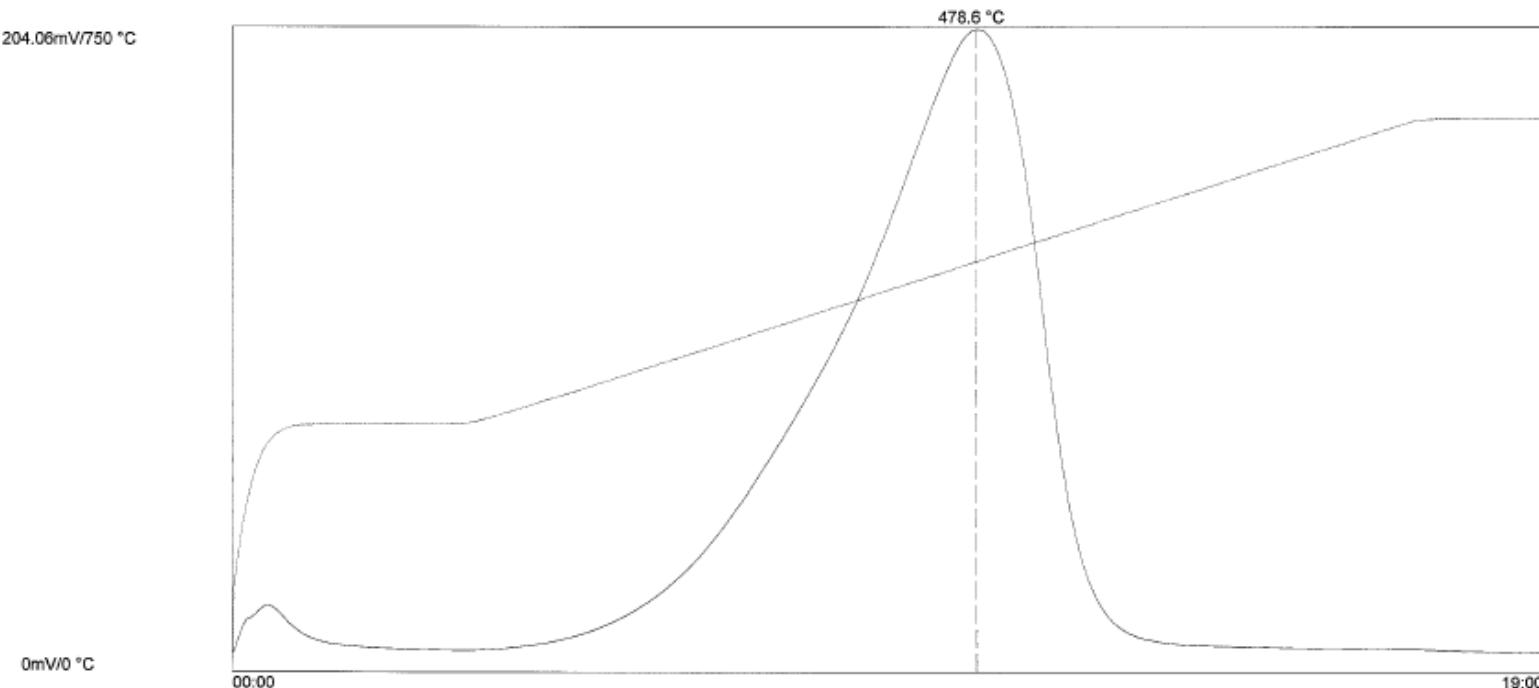
SR Analyzer - TPH Analysis

Sample ID: 26197 Acq Type: TPH Weight: 100.3
Depth: Lithology: None Well Name: N/A
Acq. Date: June 23 2015 / 2:08:49 PM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\26197.RAW
Method: C:\Program Files\Thermal Station\TPH_JFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\2015010D.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁷)

Calibration Information: Standard Name: 160000 t(Temp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA

204.06mV/750 °C



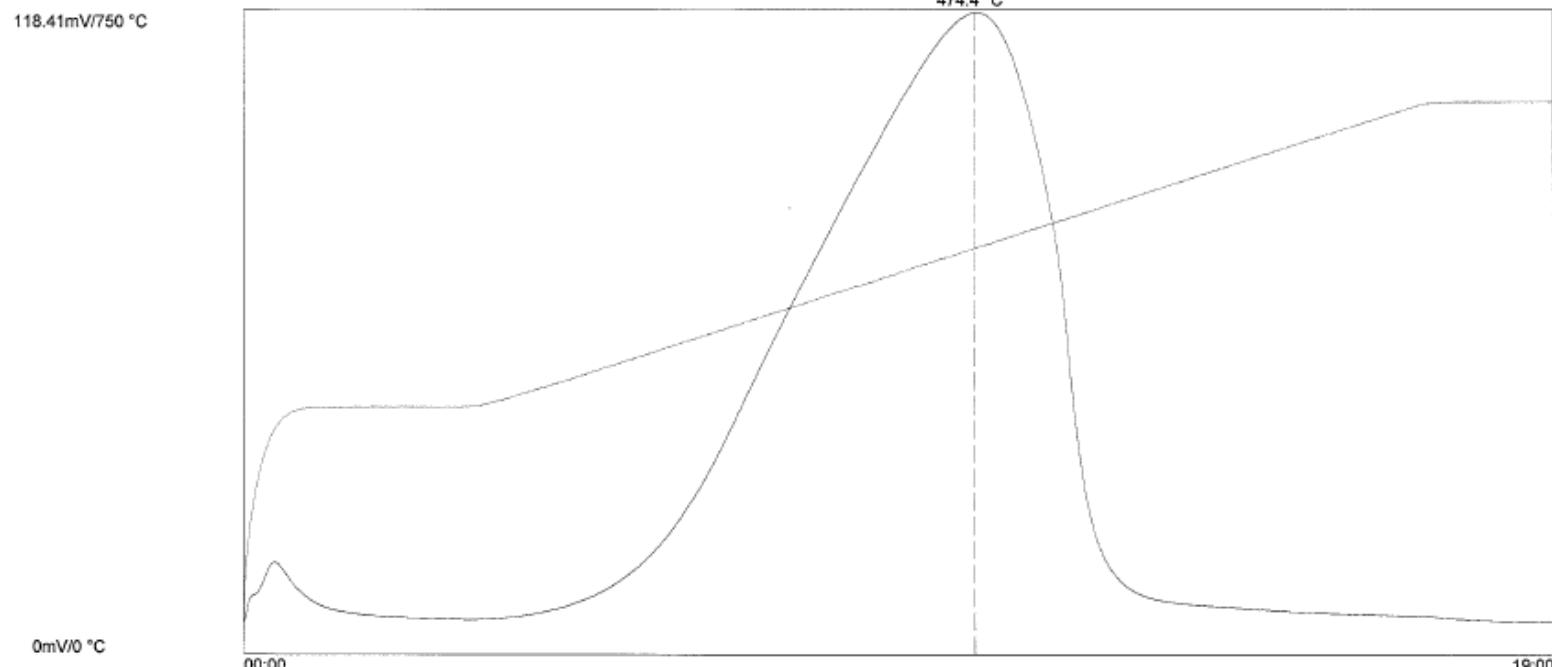
vTPH (S1): .04 mg/g pTPH (S2): 2.43 mg/g cTemp: 439.6 °C tTemp: 478.6 °C

SR Analyzer - TPH Analysis

Sample ID: 26198 Acq Type: TPH Weight: 99.9 Crucible: 6
Depth: Lithology: None Well Name: N/A
Acq. Date: June 23 2015 / 2:37:25 PM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\26198.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\2015010D.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^{A7})

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



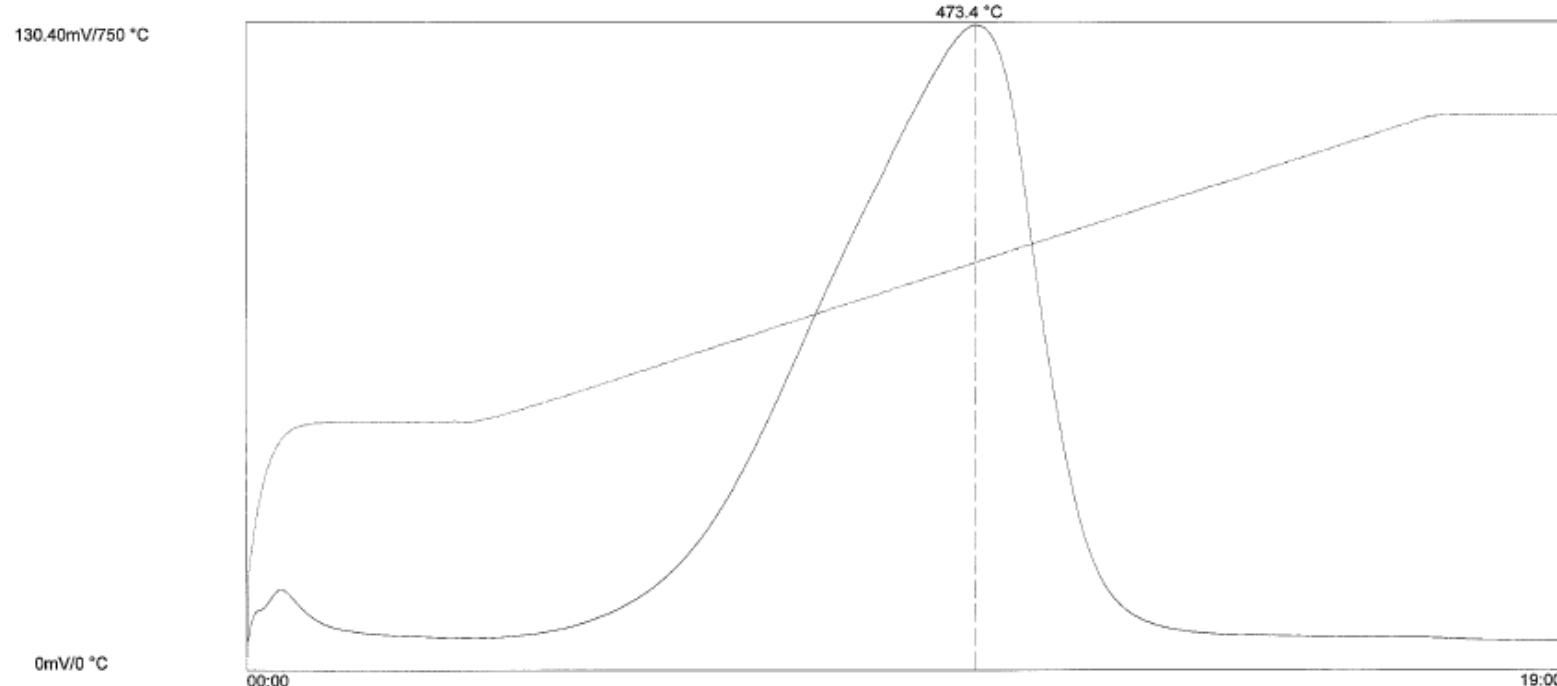
vTPH (S1): .02 mg/g pTPH (S2): 1.67 mg/g cTemp: 435.4 °C tTemp: 474.4 °C

SR Analyzer - TPH Analysis

Sample ID: 26199 Acq Type: TPH Weight: 100.6
Depth: Lithology: None Well Name: N/A
Acq. Date: June 23 2015 / 3:06:05 PM Crucible: 7

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\26199.RAW
Method: C:\Program Files\Thermal Station\TPH_FIP160000.cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\2015010D.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



vTPH (S1): .03 mg/g pTPH (S2): 1.61 mg/g cTemp: 434.4 °C tTemp: 473.4 °C

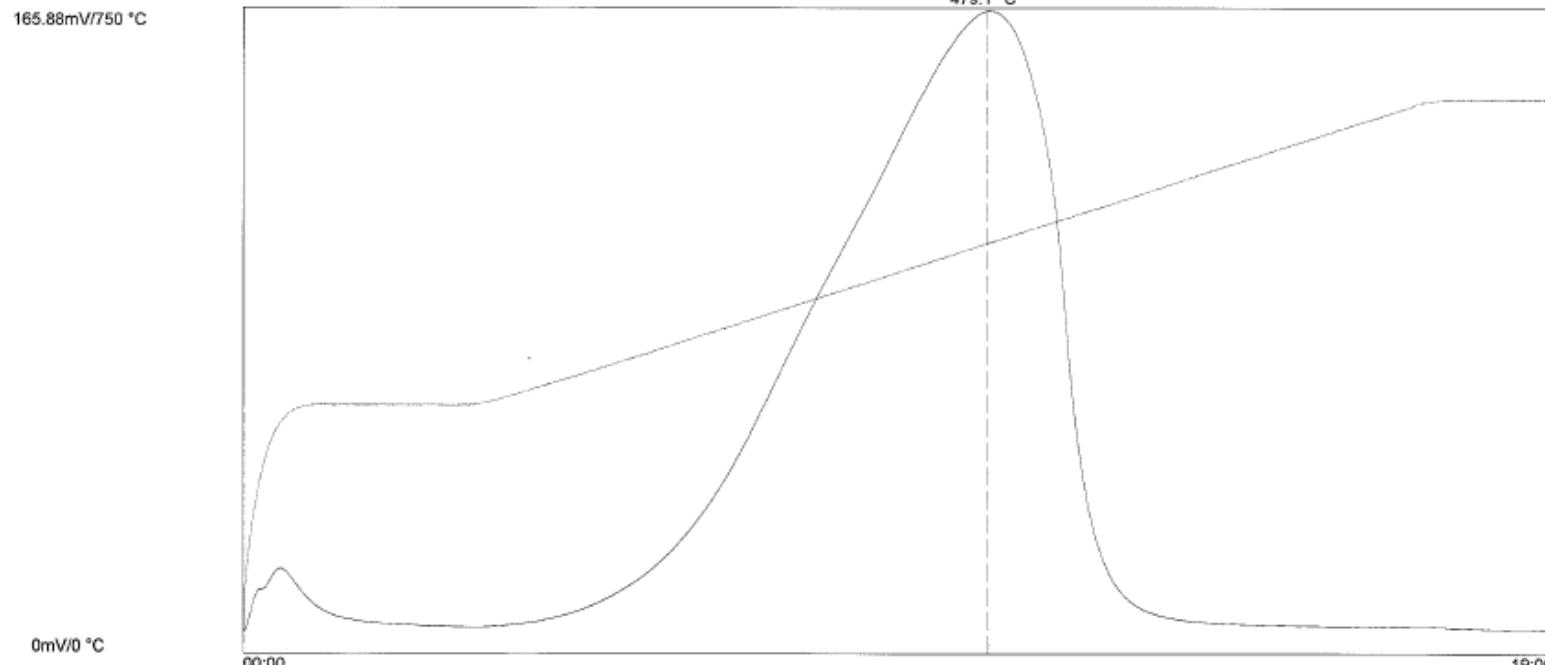
SR Analyzer - TPH Analysis

Sample ID: 26200 Acq Type: TPH Weight: 100.2
Depth: Lithology: None Well Name: N/A
Acq. Date: June 23 2015 / 3:34:35 PM

Crucible: 8

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\26200.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\2015010D.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁴)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



vTPH (S1): .05 mg/g pTPH (S2): 2.26 mg/g cTemp: 440.1 °C tTemp: 479.1 °C

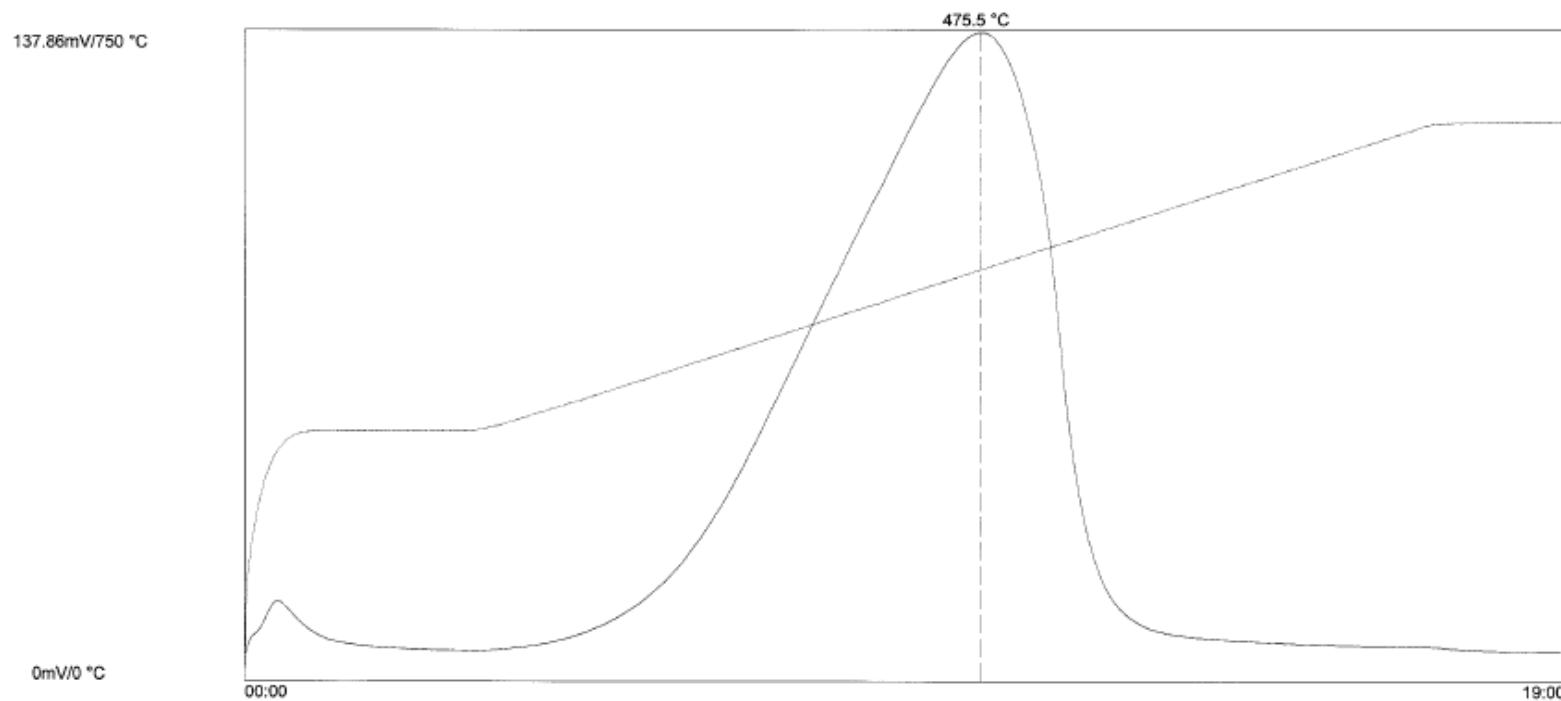
SR Analyzer - TPH Analysis

Sample ID: 26201 Acq Type: TPH Weight: 100.5
Depth: Lithology: None Well Name: N/A Crucible: 9
Acq. Date: June 23 2015 / 4:03:16 PM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\26201.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\2015010D.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA

137.86mV/750 °C



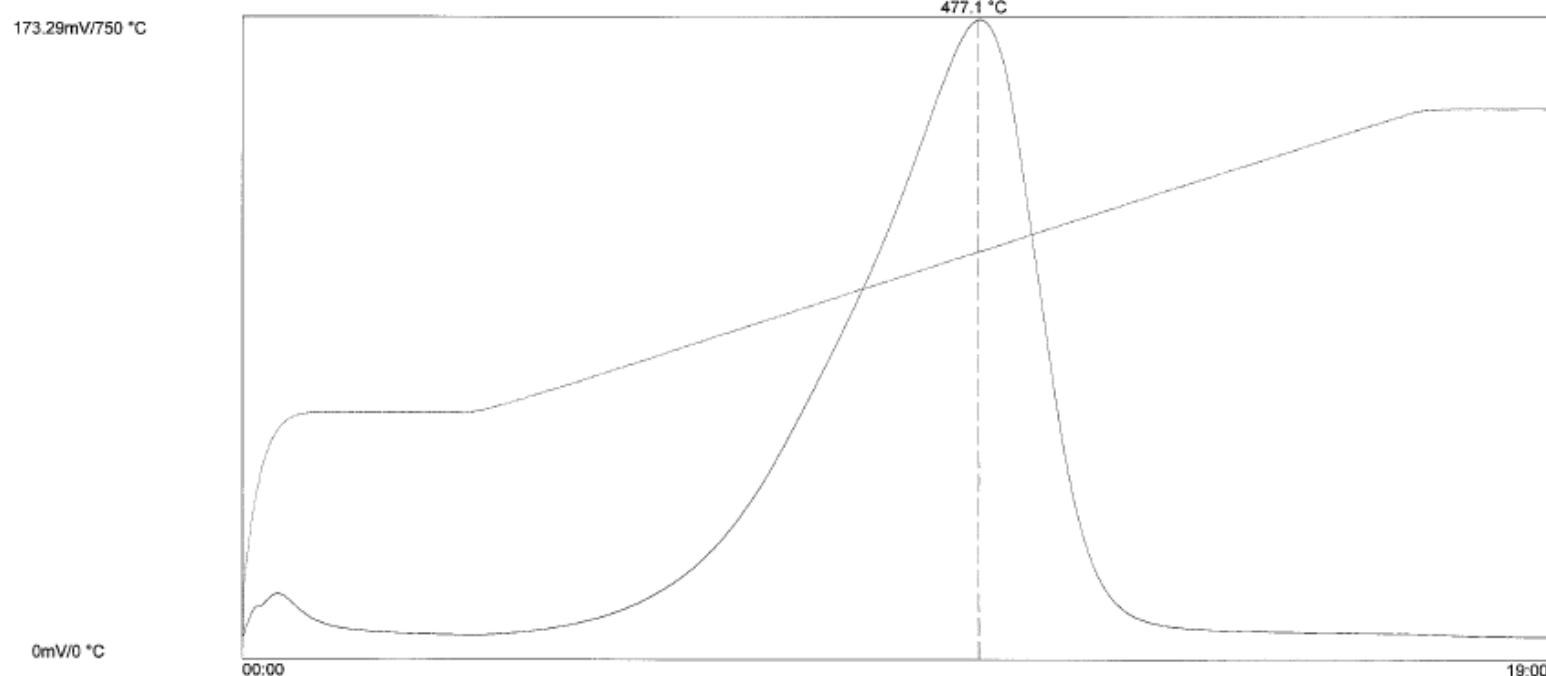
vTPH (S1): .03 mg/g pTPH (S2): 1.83 mg/g cTemp: 436.5 °C tTemp: 475.5 °C

SR Analyzer - TPH Analysis

Sample ID: 26202 Acq Type: TPH Weight: 100.4 Crucible: 10
Depth: Lithology: None Well Name: N/A
Acq. Date: June 23 2015 / 4:31:46 PM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\26202.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\2015010D.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁴)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



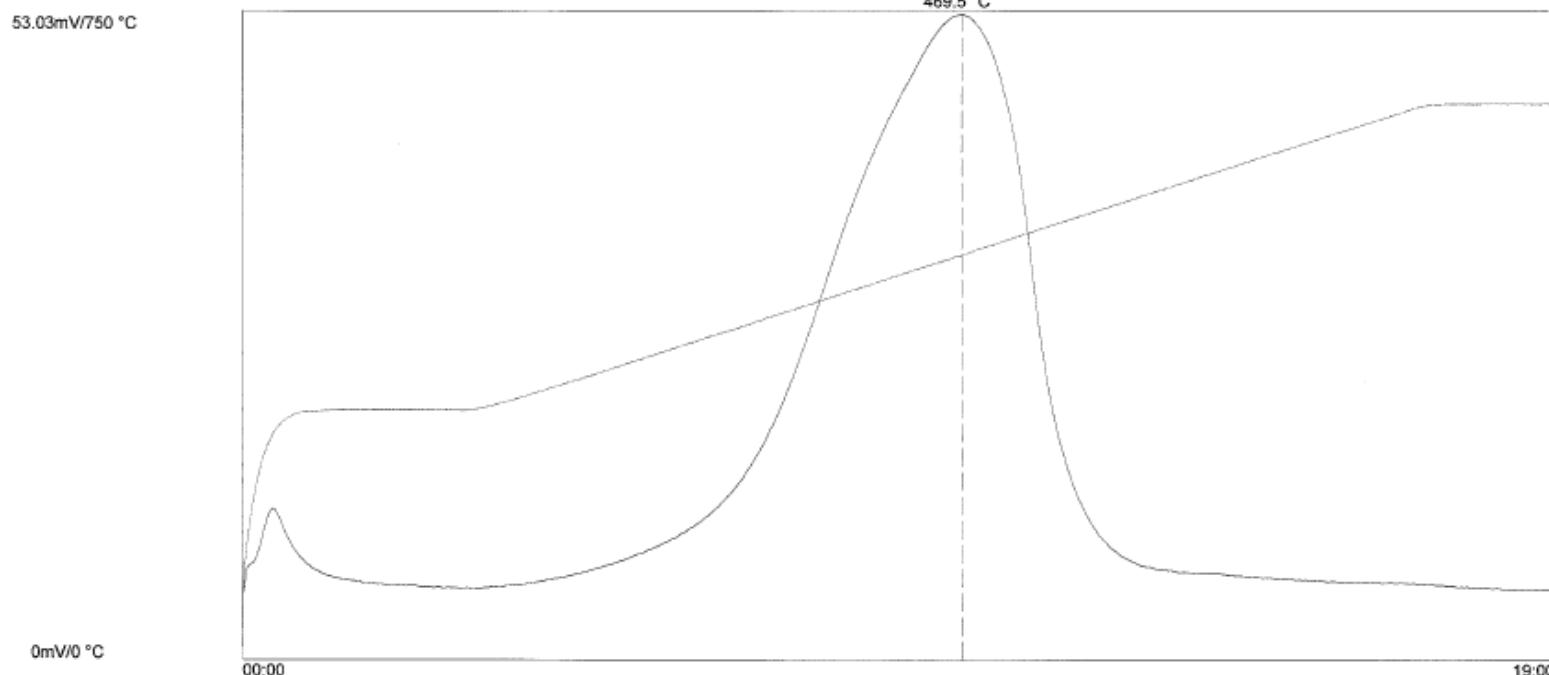
vTPH (S1): .03 mg/g pTPH (S2): 1.96 mg/g cTemp: 438.1 °C tTemp: 477.1 °C

SR Analyzer - TPH Analysis

Sample ID: 26203 Acq Type: TPH Weight: 100.6
Depth: Lithology: None Well Name: N/A
Acq. Date: June 23 2015 / 6:25:37 PM Crucible: 12

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\26203.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\2015010D.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^4)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



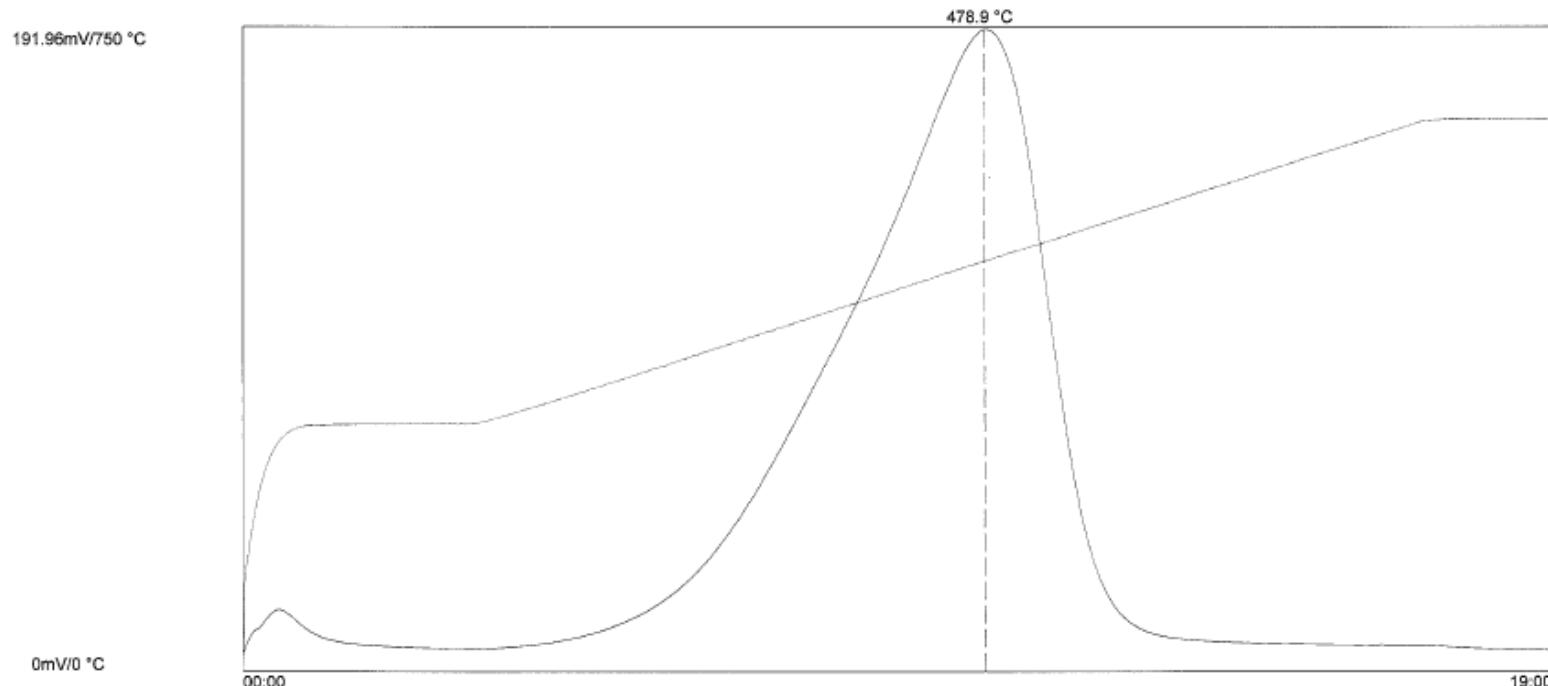
vTPH (S1): .00 mg/g pTPH (S2): .54 mg/g cTemp: 430.5 °C tTemp: 469.5 °C

SR Analyzer - TPH Analysis

Sample ID: 26204 Acq Type: TPH Weight: 100.2 Crucible: 13
Depth: Lithology: None Well Name: N/A
Acq. Date: June 23 2015 / 6:54:10 PM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\26204.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\2015010D.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁷)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



vTPH (S1): .03 mg/g pTPH (S2): 2.31 mg/g cTemp: 439.9 °C tTemp: 478.9 °C

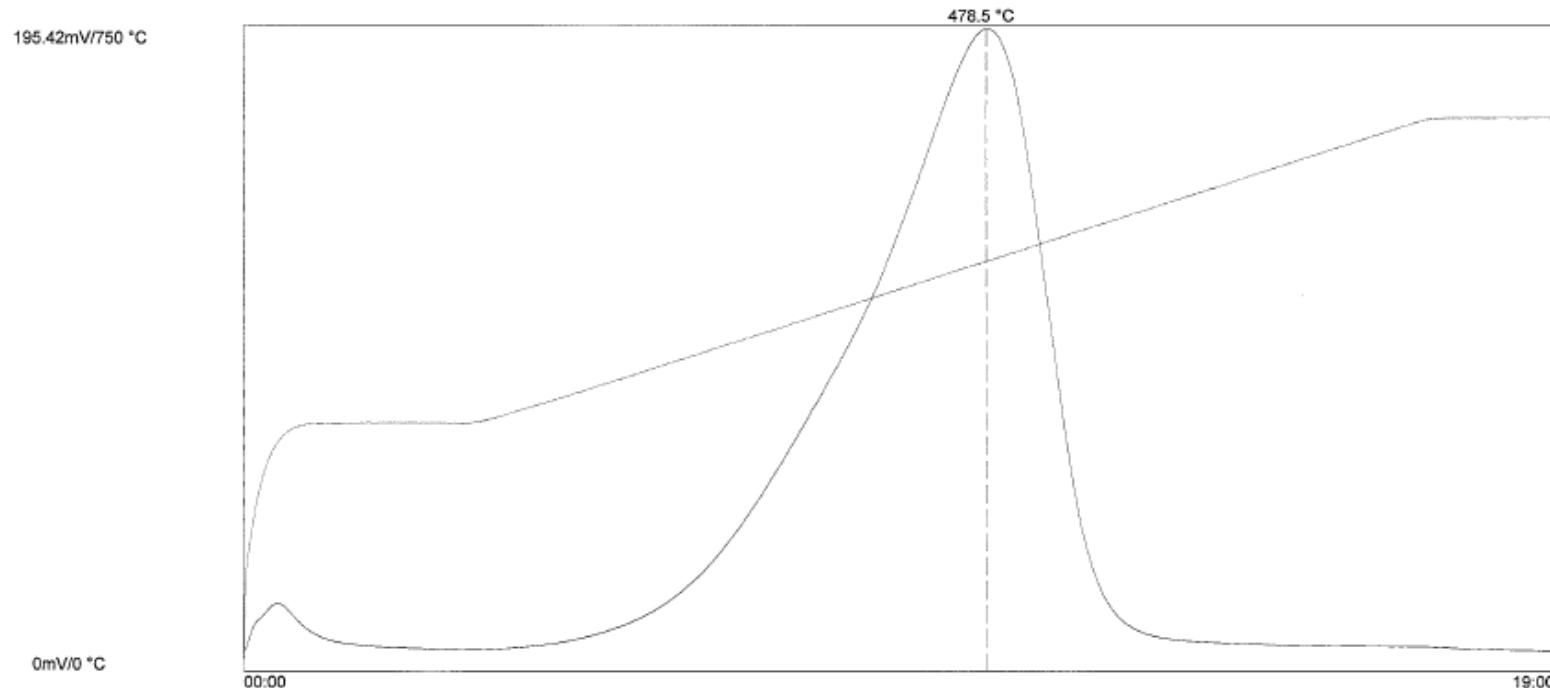
SR Analyzer - TPH Analysis

Sample ID: 26205 Acq Type: TPH Weight: 100.1
Depth: Lithology: None Well Name: N/A
Acq. Date: June 23 2015 / 7:22:44 PM Crucible: 14

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\26205.RAW
Method: C:\Program Files\Thermal Station\TPH_JFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\2015010D.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^{A7})

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA

195.42mV/750 °C



vTPH (S1): .04 mg/g pTPH (S2): 2.26 mg/g cTemp: 439.5 °C tTemp: 478.5 °C

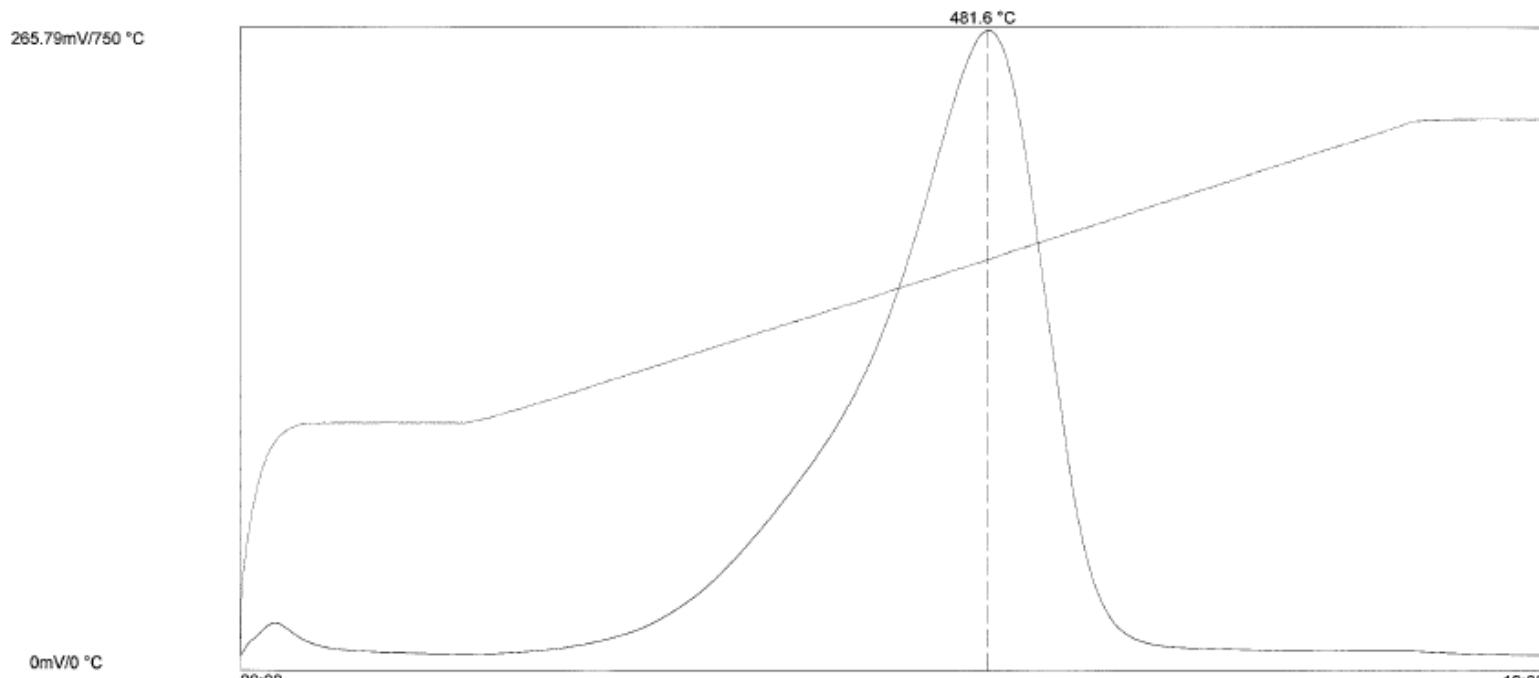
SR Analyzer - TPH Analysis

Sample ID: 26206 Acq Type: TPH Weight: 100.0 Crucible: 15
Depth: Lithology: None Well Name: N/A
Acq. Date: June 23 2015 / 7:51:19 PM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\26206.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\2015010D.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁴)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA

265.79mV/750 °C



vTPH (S1): .04 mg/g pTPH (S2): 2.85 mg/g cTemp: 442.6 °C tTemp: 481.6 °C

SR Analyzer - TPH Analysis

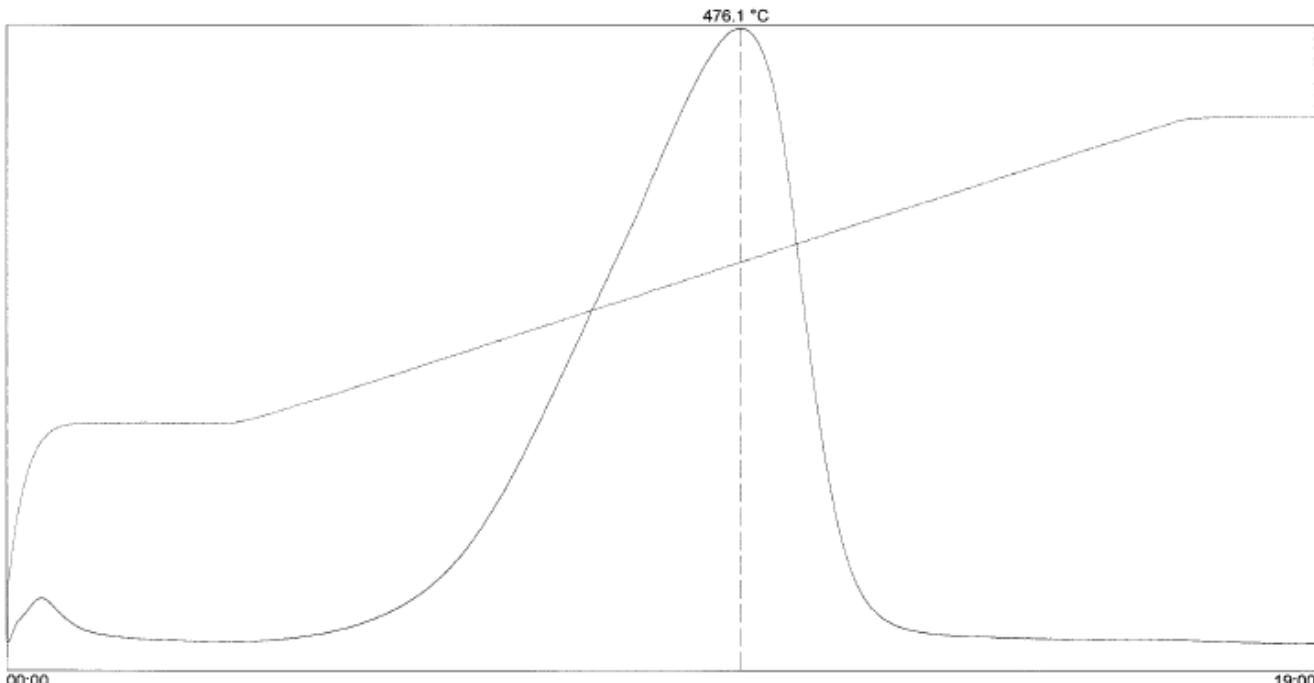
Sample ID: 26207 Acq Type: TPH Weight: 100.2
Depth: Lithology: None Well Name: N/A
Acq. Date: June 23 2015 / 8:19:50 PM

Crucible: 16

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\26207.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\2015010D.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA

146.12mV/750 °C



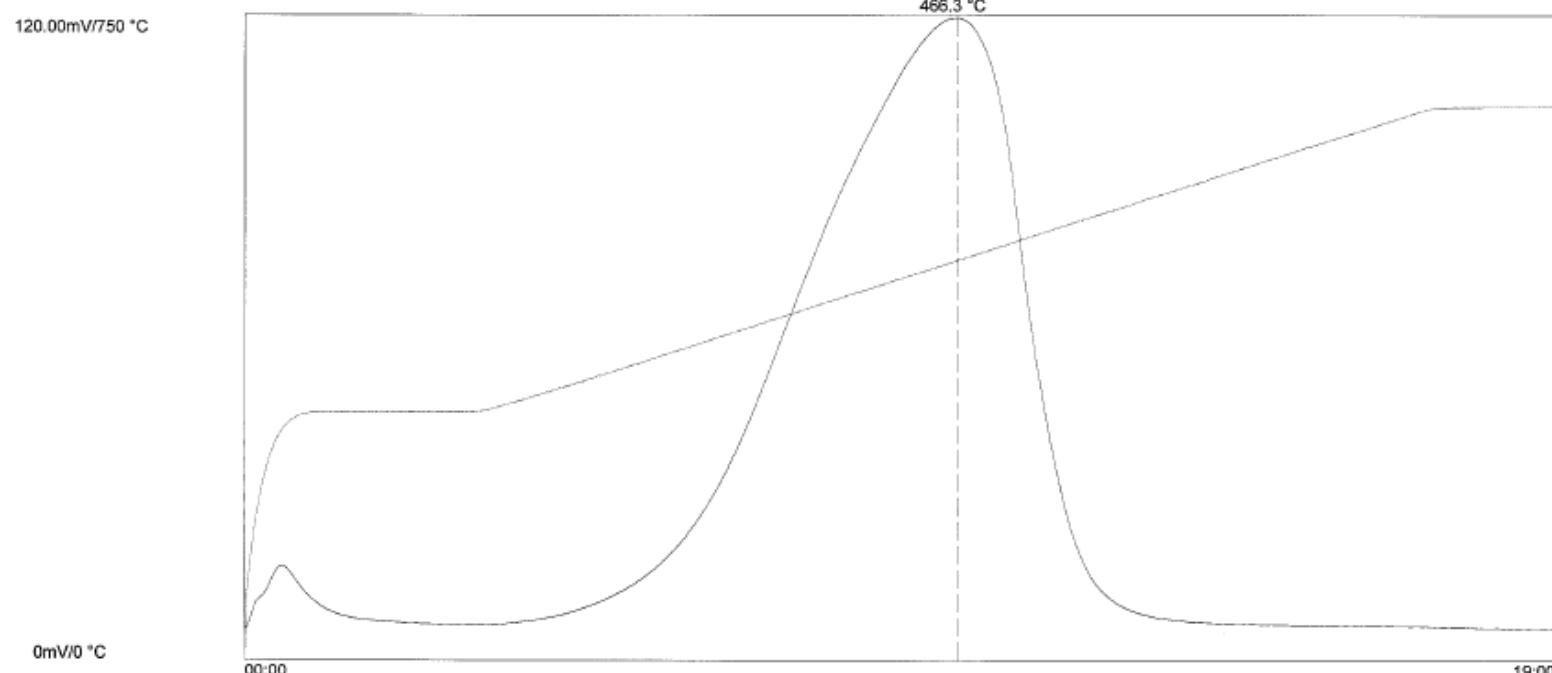
vTPH (S1): .02 mg/g pTPH (S2): 1.77 mg/g cTemp: 437.1 °C tTemp: 476.1 °C

SR Analyzer - TPH Analysis

Sample ID: 26208 Acq Type: TPH Weight: 100.0 Crucible: 17
Depth: Lithology: None Well Name: N/A
Acq. Date: June 23 2015 / 8:48:25 PM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\26208.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\2015010D.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁷)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



vTPH (S1): .03 mg/g pTPH (S2): 1.51 mg/g cTemp: 427.3 °C tTemp: 466.3 °C

SR Analyzer - TPH Analysis

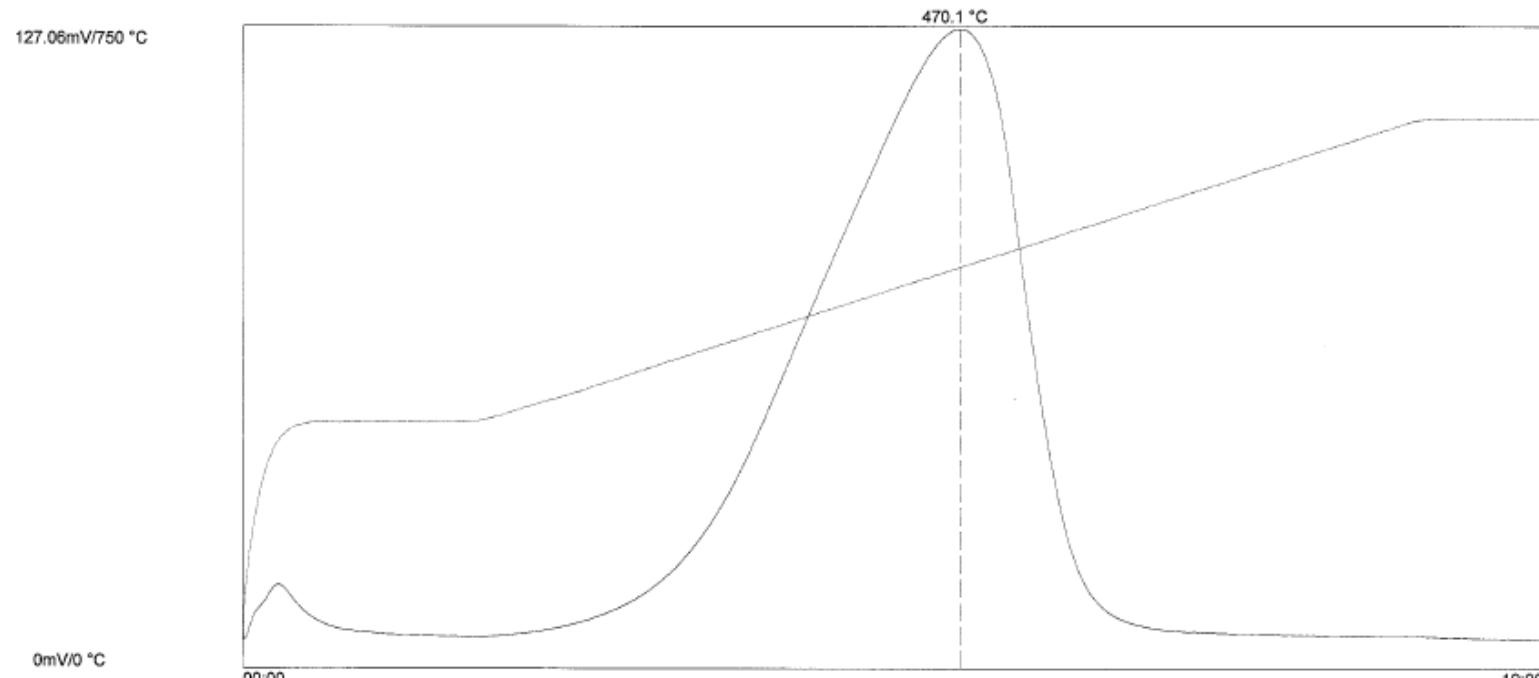
Sample ID: 26209 Acq Type: TPH Weight: 100.4
Depth: Lithology: None Well Name: N/A
Acq. Date: June 23 2015 / 9:16:59 PM

Crucible: 18

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\26209.RAW
Method: C:\Program Files\Thermal Station\TPH_1FP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\2015010D.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^4)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA

127.06mV/750 °C



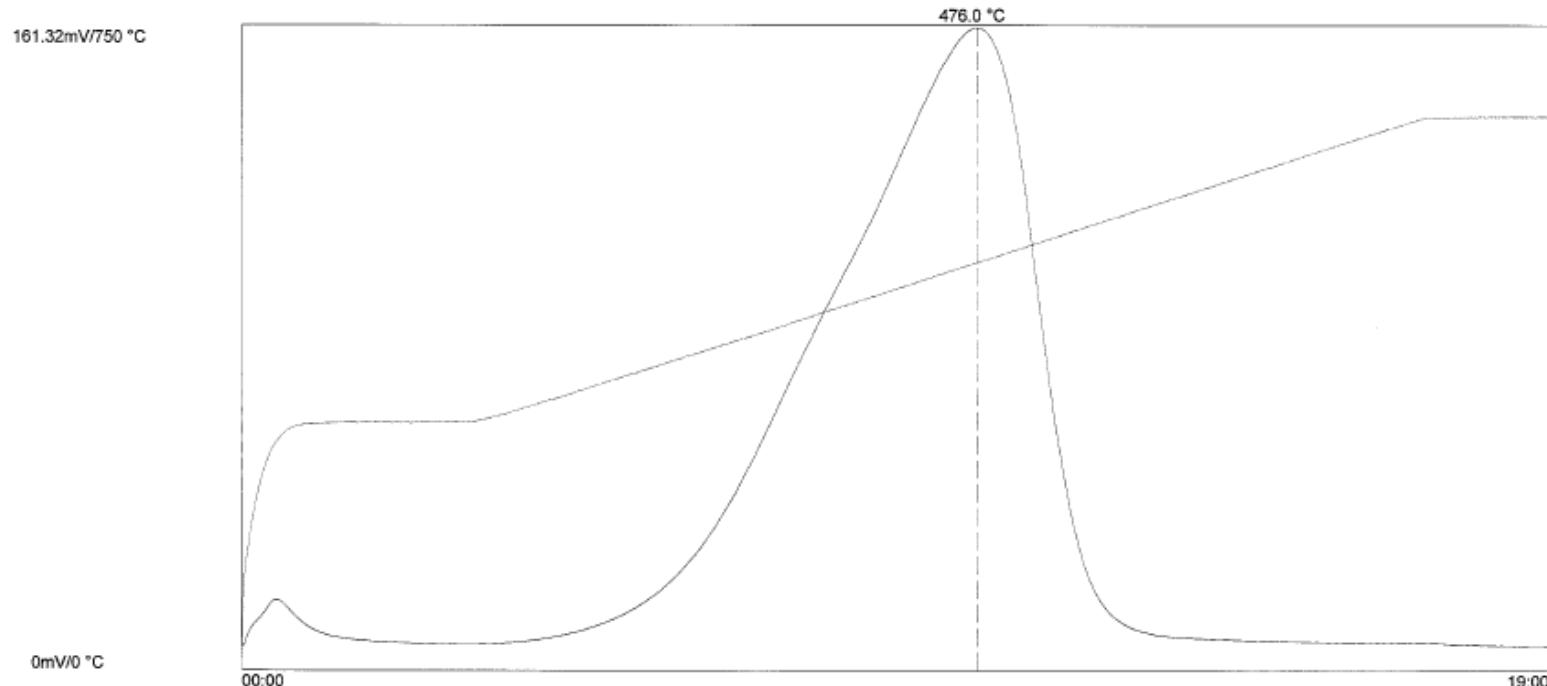
vTPH (S1): .02 mg/g pTPH (S2): 1.54 mg/g cTemp: 431.1 °C tTemp: 470.1 °C

SR Analyzer - TPH Analysis

Sample ID: 26210 Acq Type: TPH Weight: 100.7
Depth: Lithology: None Well Name: N/A
Acq. Date: June 23 2015 / 9:45:37 PM Crucible: 19

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\26210.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\2015010D.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁷)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



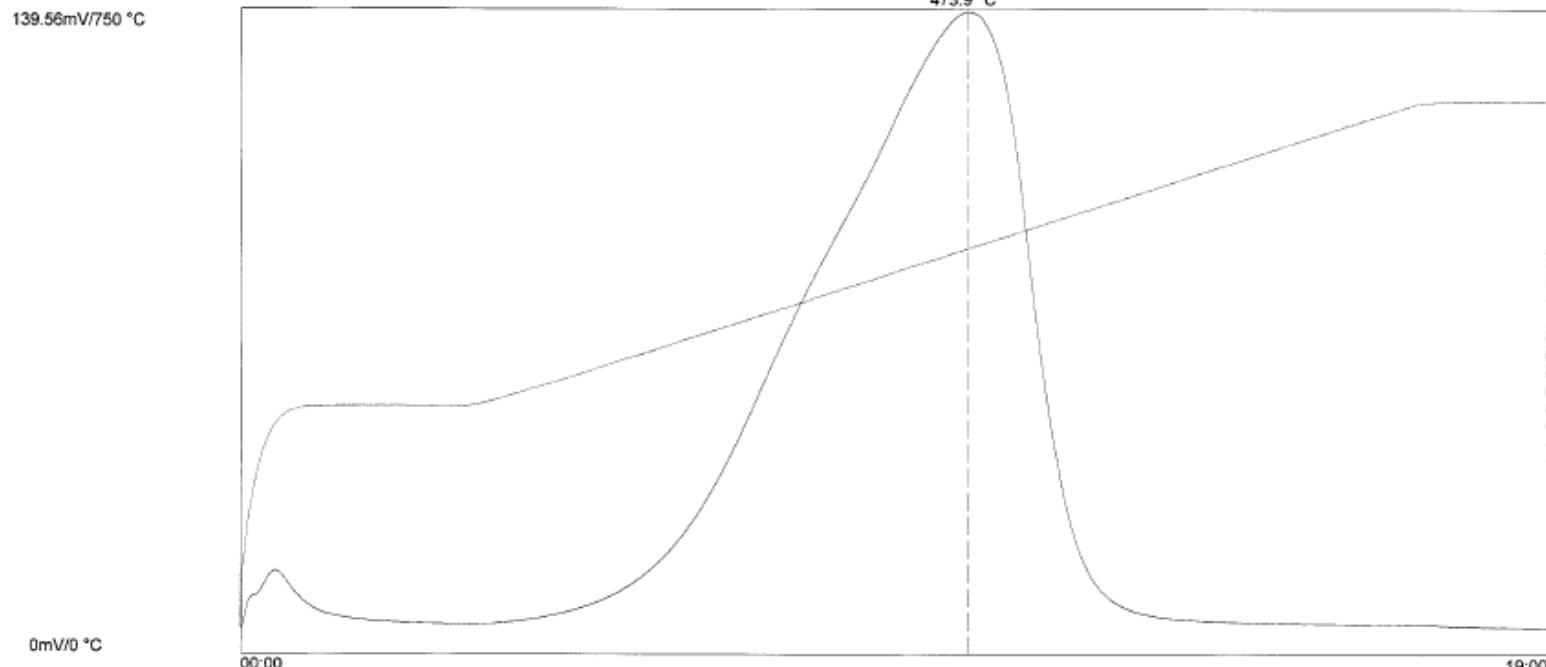
vTPH (S1): .03 mg/g pTPH (S2): 1.98 mg/g cTemp: 437.0 °C tTemp: 476.0 °C

SR Analyzer - TPH Analysis

Sample ID: 26211 Acq Type: TPH Weight: 100.6 Crucible: 21
Depth: Lithology: None Well Name: N/A
Acq. Date: June 23 2015 / 11:39:40 PM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\26211.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\2015010D.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁴)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



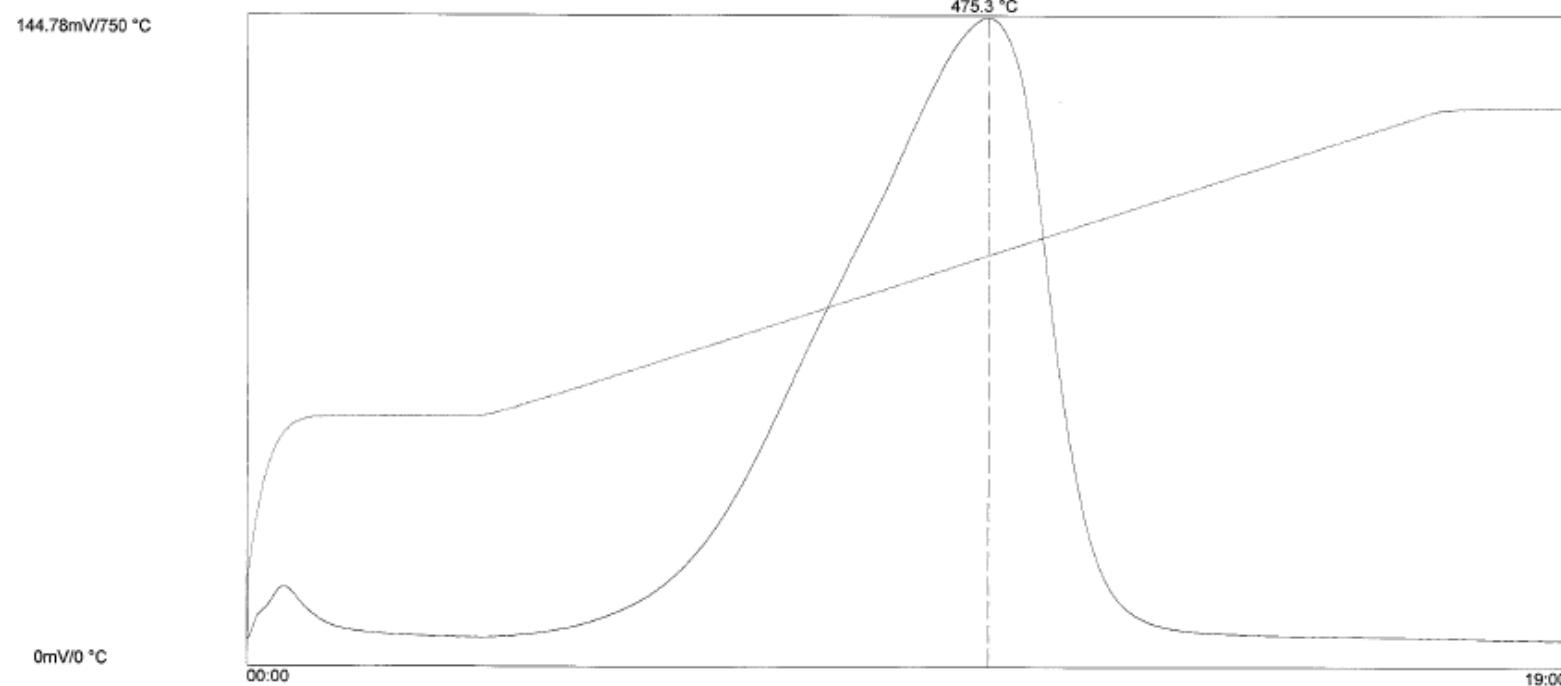
vTPH (S1): .03 mg/g pTPH (S2): 1.75 mg/g cTemp: 434.9 °C tTemp: 473.9 °C

SR Analyzer - TPH Analysis

Sample ID: 26212 Acq Type: TPH Weight: 100.8
Depth: Lithology: None Well Name: N/A
Acq. Date: June 24 2015 / 12:08:13 AM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\26212.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\2015010D.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min
Detector Temp: 325 °C Final Temp: 650 °C Final Time: 2 Min
Detector Gain: Mid (10⁷)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



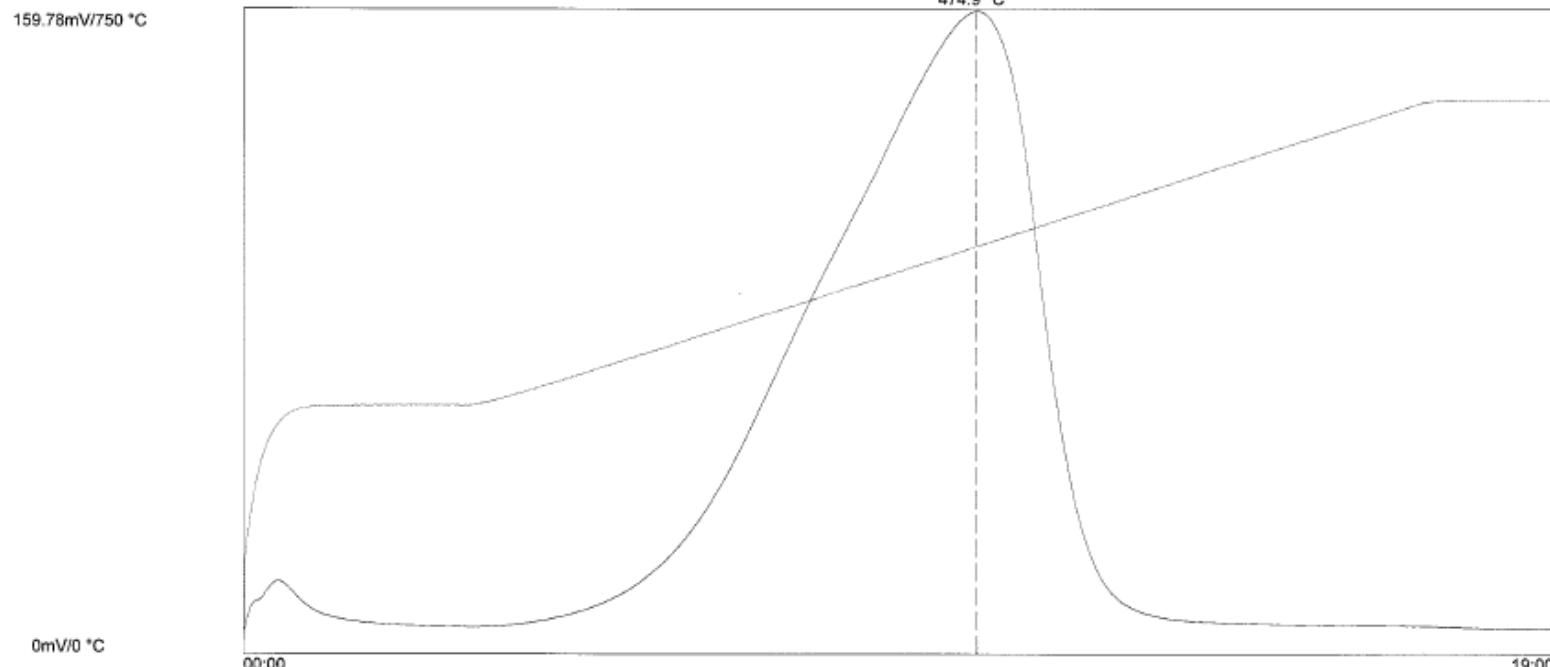
vTPH (S1): .03 mg/g pTPH (S2): 1.76 mg/g cTemp: 436.3 °C tTemp: 475.3 °C

SR Analyzer - TPH Analysis

Sample ID: 26213 Acq Type: TPH Weight: 100.7 Crucible: 23
Depth: Lithology: None Well Name: N/A
Acq. Date: June 24 2015 / 12:36:54 AM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\26213.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\2015010D.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^{A7})

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



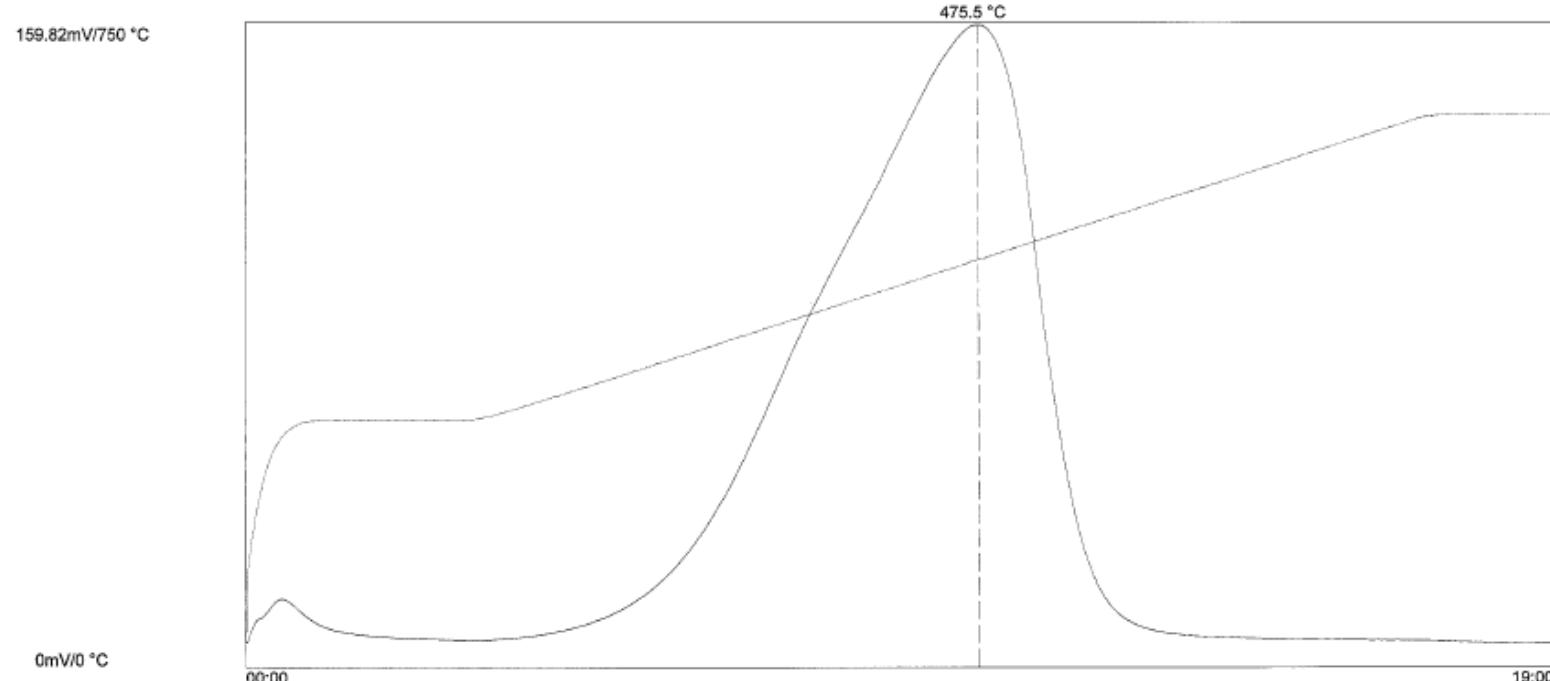
vTPH (S1): .03 mg/g pTPH (S2): 2.04 mg/g cTemp: 435.9 °C tTemp: 474.9 °C

SR Analyzer - TPH Analysis

Sample ID: 26214 Acq Type: TPH Weight: 100.6 Crucible: 24
Depth: Lithology: None Well Name: N/A
Acq. Date: June 24 2015 / 1:05:28 AM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\26214.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\2015010D.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁴)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



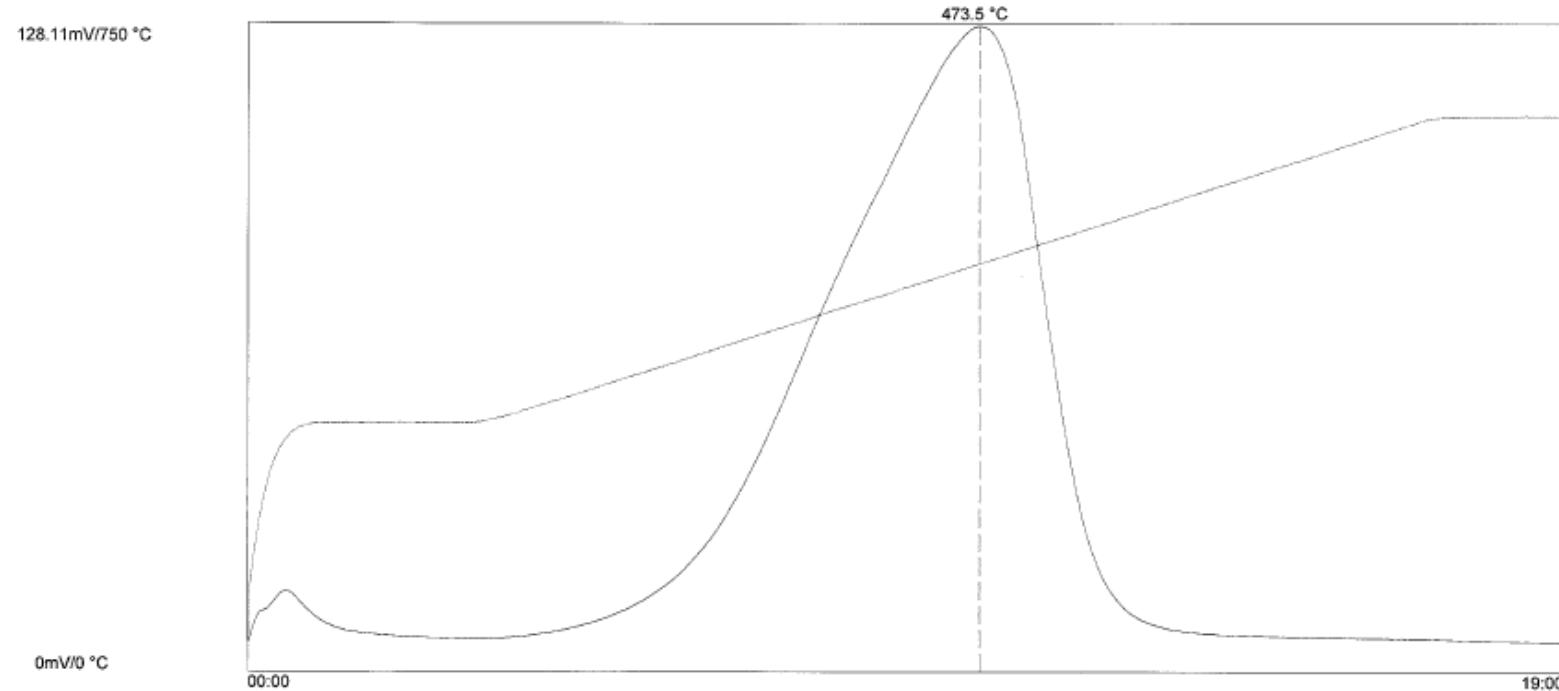
vTPH (S1): .03 mg/g pTPH (S2): 2.03 mg/g cTemp: 436.5 °C tTemp: 475.5 °C

SR Analyzer - TPH Analysis

Sample ID: 26215 Acq Type: TPH Weight: 100.6 Crucible: 25
Depth: Lithology: None Well Name: N/A
Acq. Date: June 24 2015 / 1:34:04 AM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\26215.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\2015010D.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate: 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



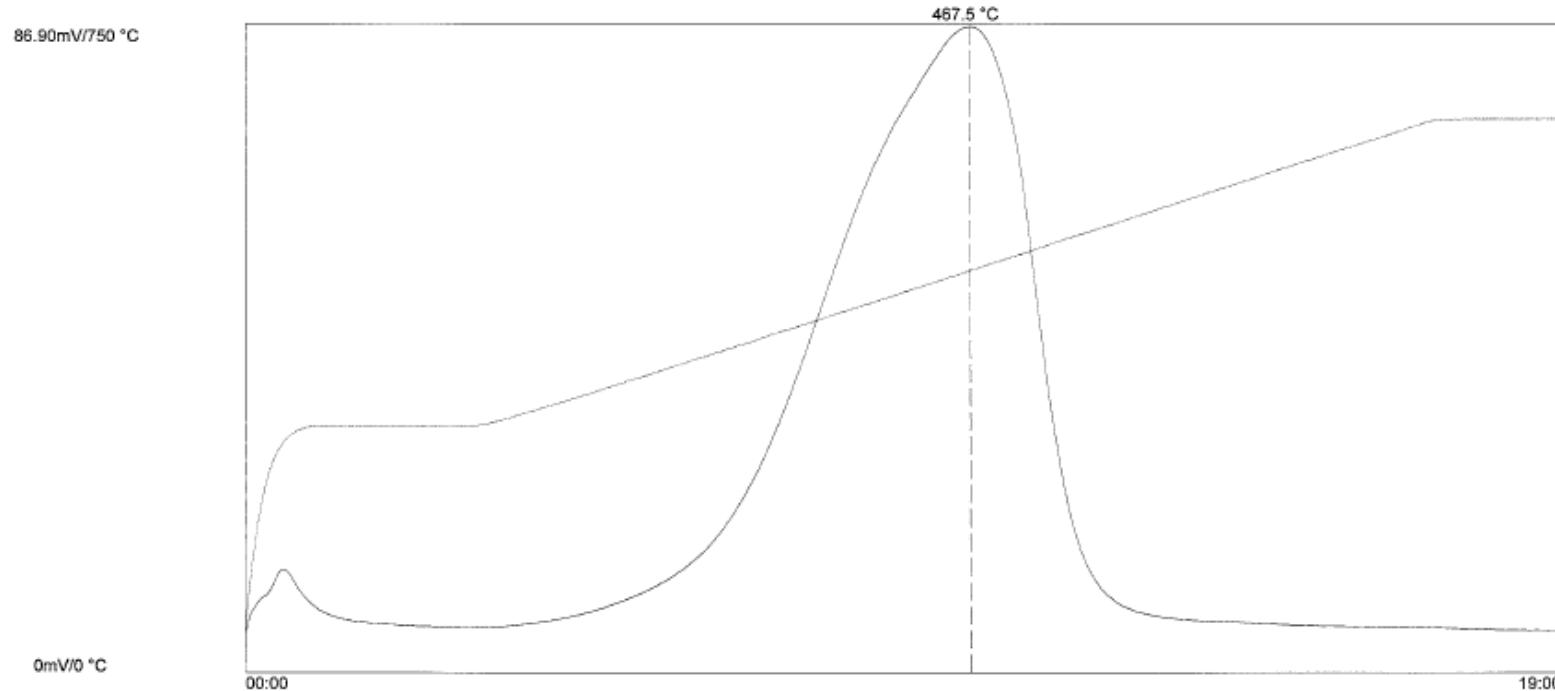
vTPH (S1): .03 mg/g pTPH (S2): 1.58 mg/g cTemp: 434.5 °C tTemp: 473.5 °C

SR Analyzer - TPH Analysis

Sample ID: 26216 Acq Type: TPH Weight: 100.6
Depth: Lithology: None Well Name: N/A
Acq. Date: June 24 2015 / 2:02:48 AM Crucible: 26

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\26216.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\2015010D.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



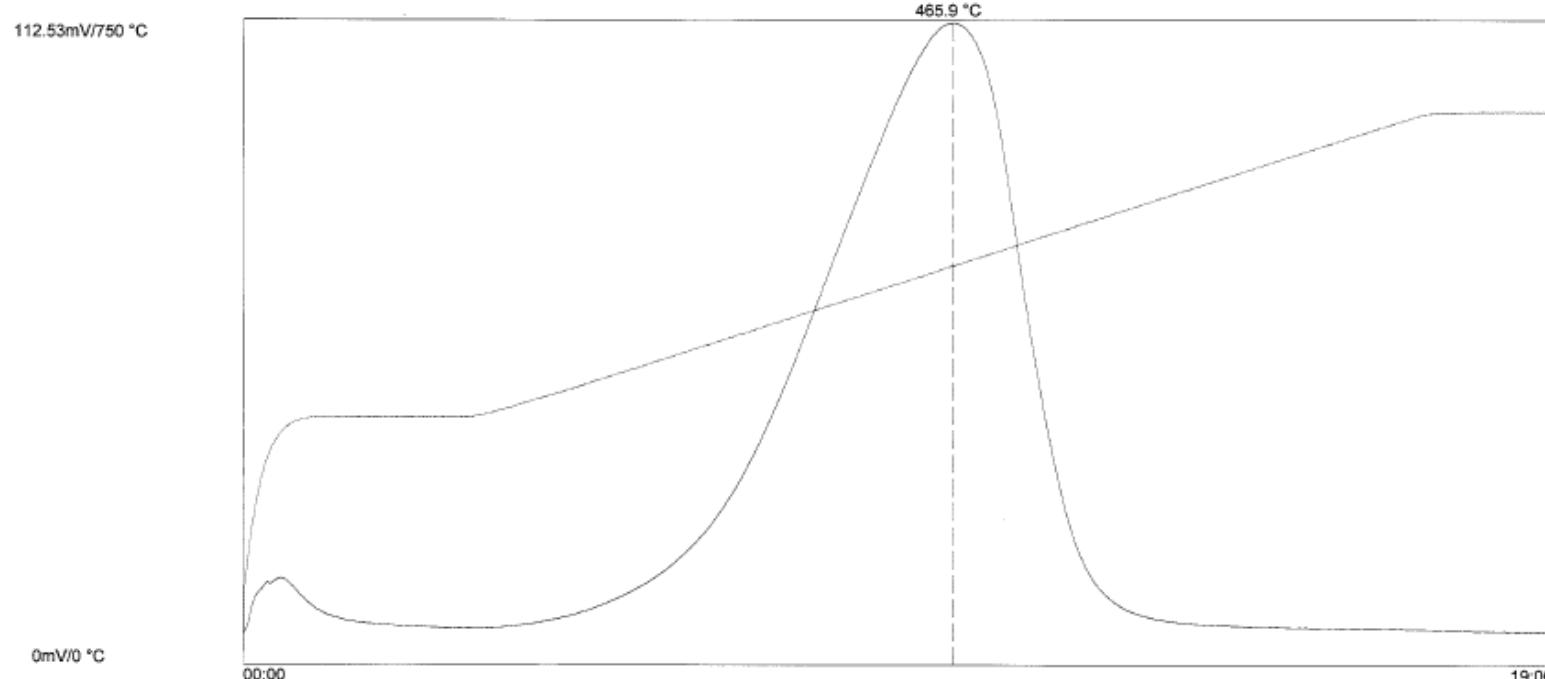
vTPH (S1): .01 mg/g pTPH (S2): .98 mg/g cTemp: 428.5 °C tTemp: 467.5 °C

SR Analyzer - TPH Analysis

Sample ID: 26217 Acq Type: TPH Weight: 100.8
Depth: Lithology: None Well Name: N/A
Acq. Date: June 24 2015 / 2:31:23 AM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\26217.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\2015010D.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^4)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



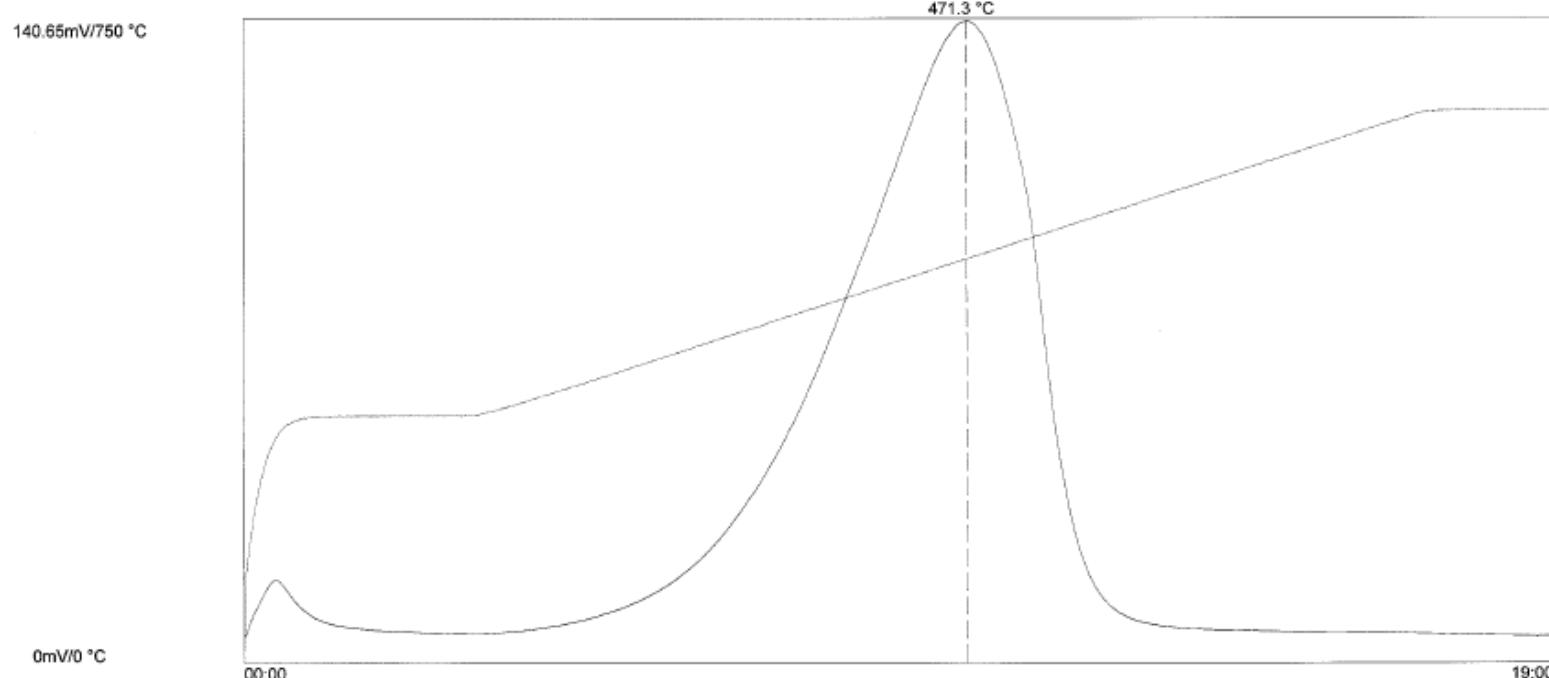
vTPH (S1): .02 mg/g pTPH (S2): 1.31 mg/g cTemp: 426.9 °C tTemp: 465.9 °C

SR Analyzer - TPH Analysis

Sample ID: 26218 Acq Type: TPH Weight: 100.6
Depth: Lithology: None Well Name: N/A
Acq. Date: June 24 2015 / 2:59:53 AM Crucible: 28

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\26218.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000.cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\2015010D.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate: 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^4)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



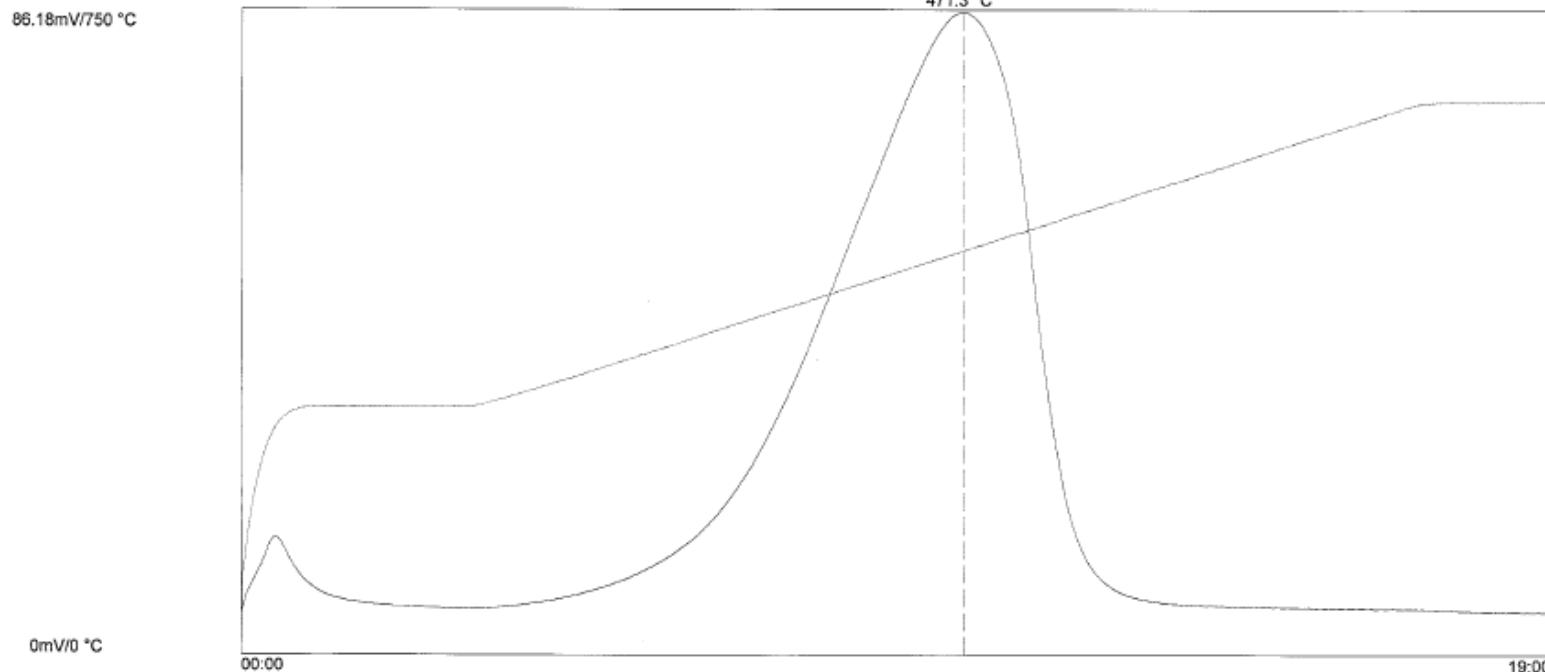
vTPH (S1): .03 mg/g pTPH (S2): 1.59 mg/g cTemp: 432.3 °C tTemp: 471.3 °C

SR Analyzer - TPH Analysis

Sample ID: 26219 Acq Type: TPH Weight: 100.8
Depth: Lithology: None Well Name: N/A
Acq. Date: June 24 2015 / 3:28:19 AM Crucible: 29

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\26219.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010D\2015010D.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate: 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^{17})

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



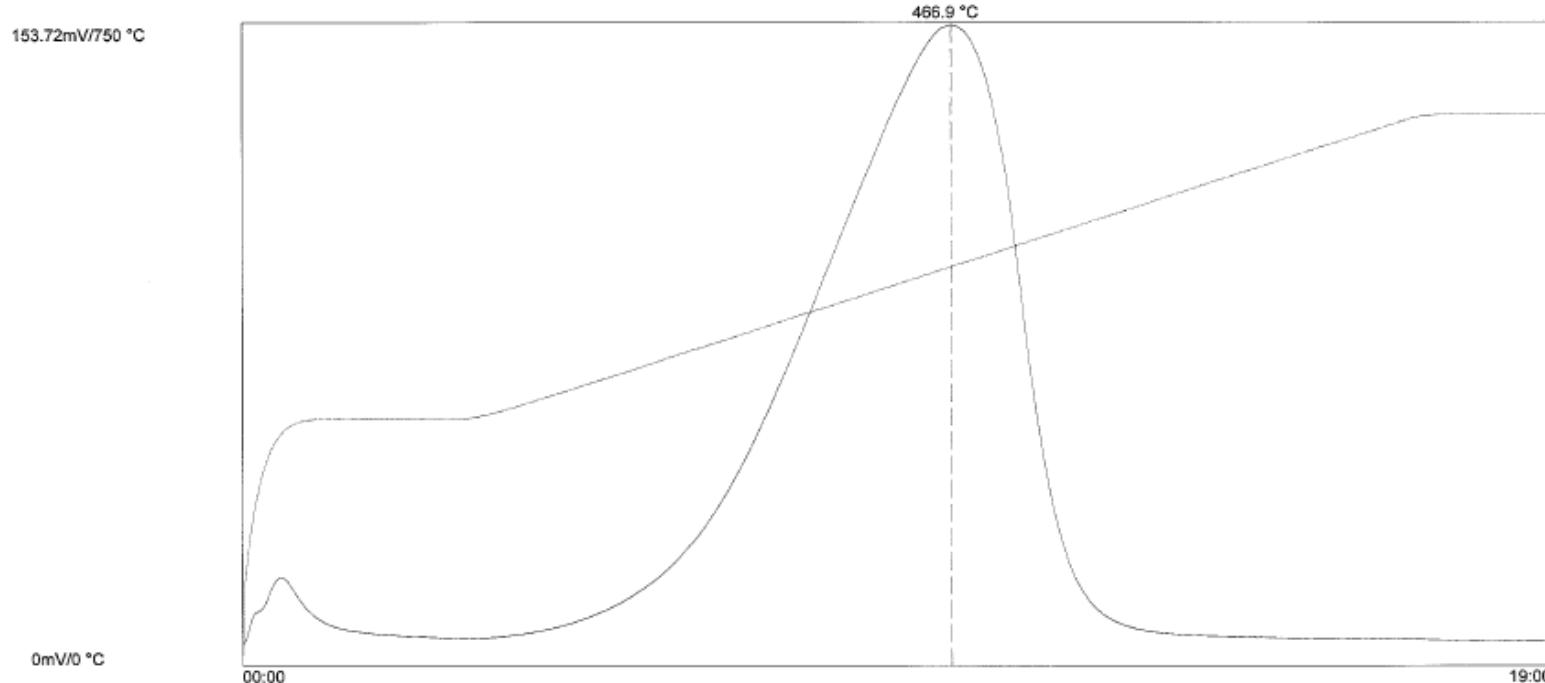
vTPH (S1): .02 mg/g pTPH (S2): .94 mg/g cTemp: 432.3 °C tTemp: 471.3 °C

SR Analyzer - TPH Analysis

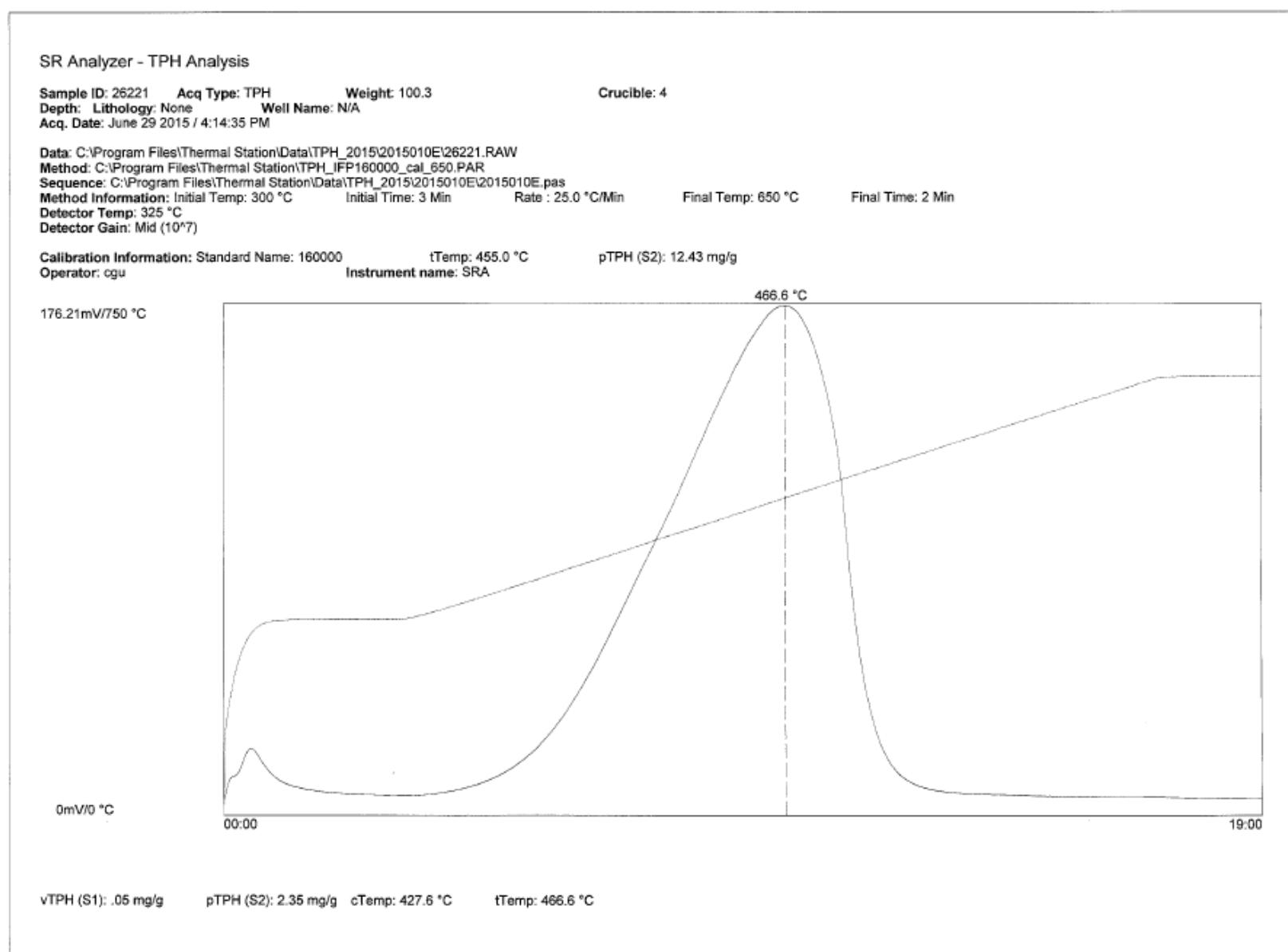
Sample ID: 26220 Acq Type: TPH Weight: 100.9
Depth: Lithology: None Well Name: N/A
Crucible: 3
Acq. Date: June 29 2015 / 3:45:54 PM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010E\26220.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010E\2015010E.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁷)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



vTPH (S1): .04 mg/g pTPH (S2): 1.87 mg/g cTemp: 427.9 °C tTemp: 466.9 °C



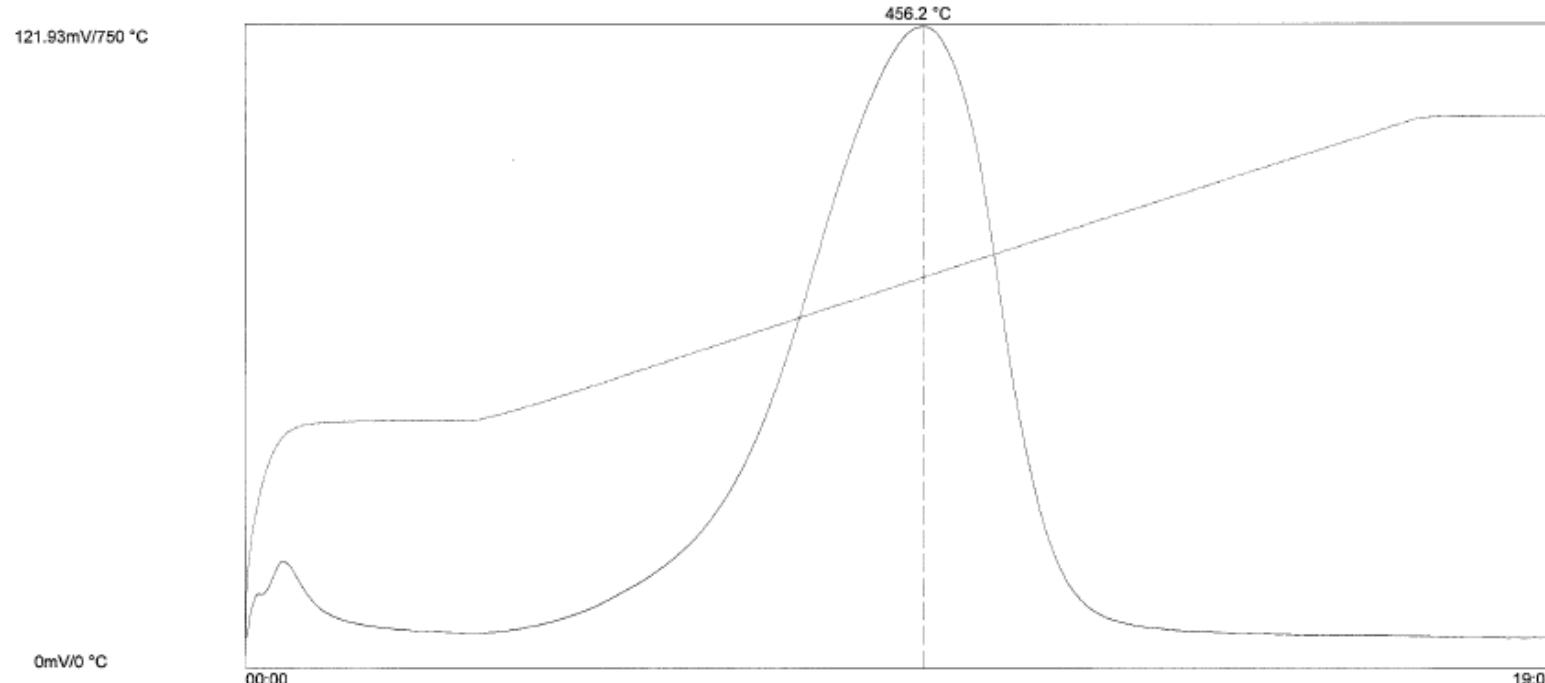
SR Analyzer - TPH Analysis

Sample ID: 26222 Acq Type: TPH Weight: 100.2
Depth: Lithology: None Well Name: N/A
Acq. Date: June 29 2015 / 4:43:19 PM

Crucible: 5

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010E\26222.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000.cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010E\2015010E.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min
Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁴)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



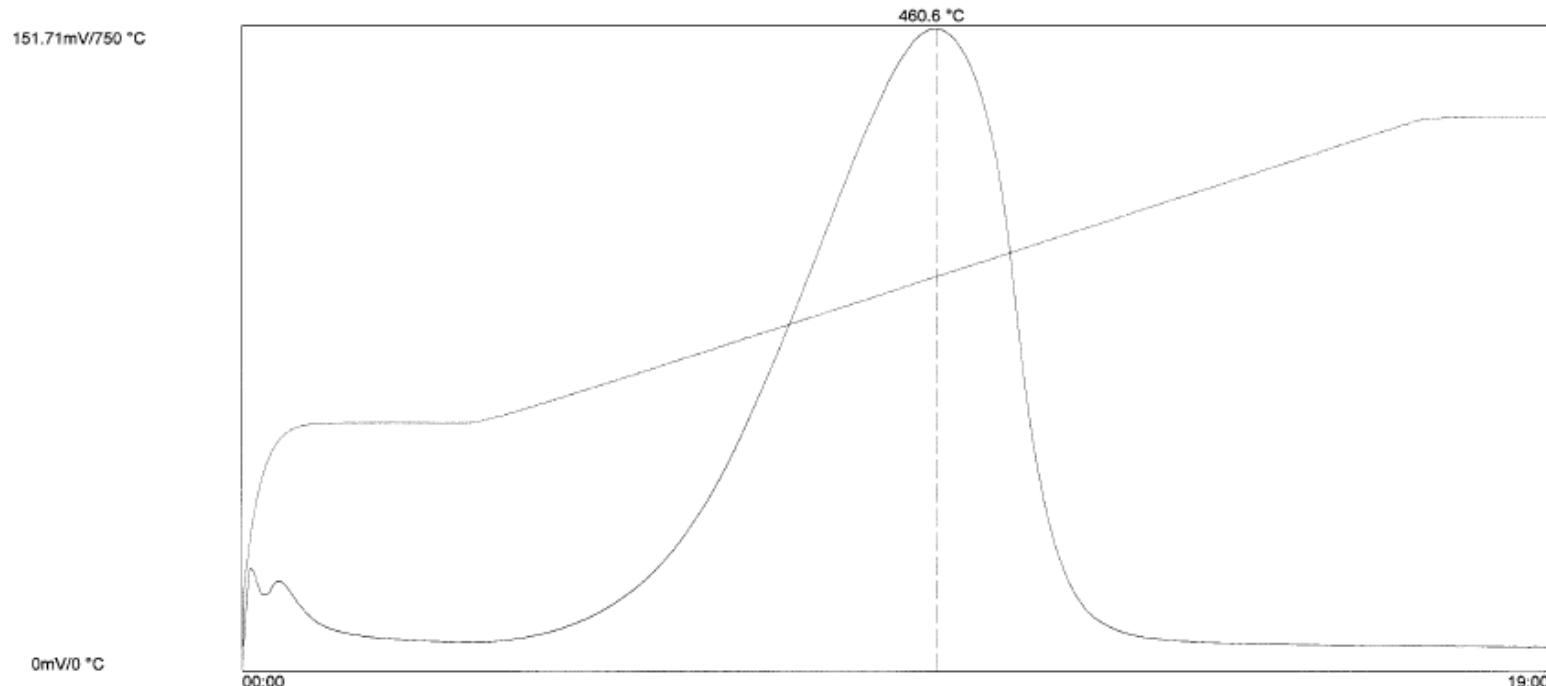
vTPH (S1): .04 mg/g pTPH (S2): 1.41 mg/g cTemp: 417.2 °C tTemp: 456.2 °C

SR Analyzer - TPH Analysis

Sample ID: 26223 Acq Type: TPH Weight: 100.2 Crucible: 6
Depth: Lithology: None Well Name: N/A
Acq. Date: June 29 2015 / 5:11:47 PM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010E\26223.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010E\2015010E.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^{-7})

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



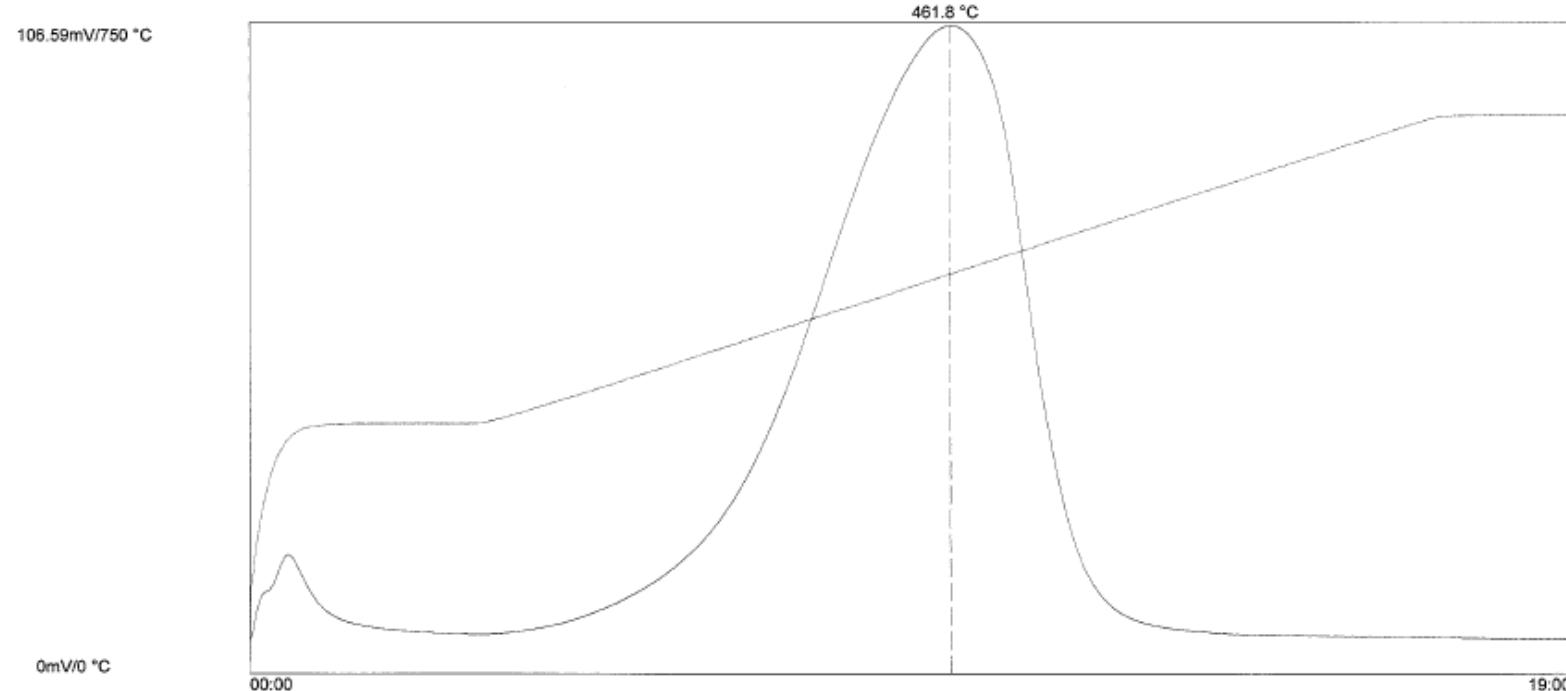
vTPH (S1): .05 mg/g pTPH (S2): 1.93 mg/g cTemp: 421.6 °C t(Temp: 460.6 °C

SR Analyzer - TPH Analysis

Sample ID: 26224 Acq Type: TPH Weight: 100.1
Depth: Lithology: None Well Name: N/A
Acq. Date: June 29 2015 / 5:40:22 PM Crucible: 7

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010E\26224.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010E\2015010E.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^4)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgw Instrument name: SRA



vTPH (S1): .04 mg/g pTPH (S2): 1.27 mg/g cTemp: 422.8 °C fTemp: 461.8 °C

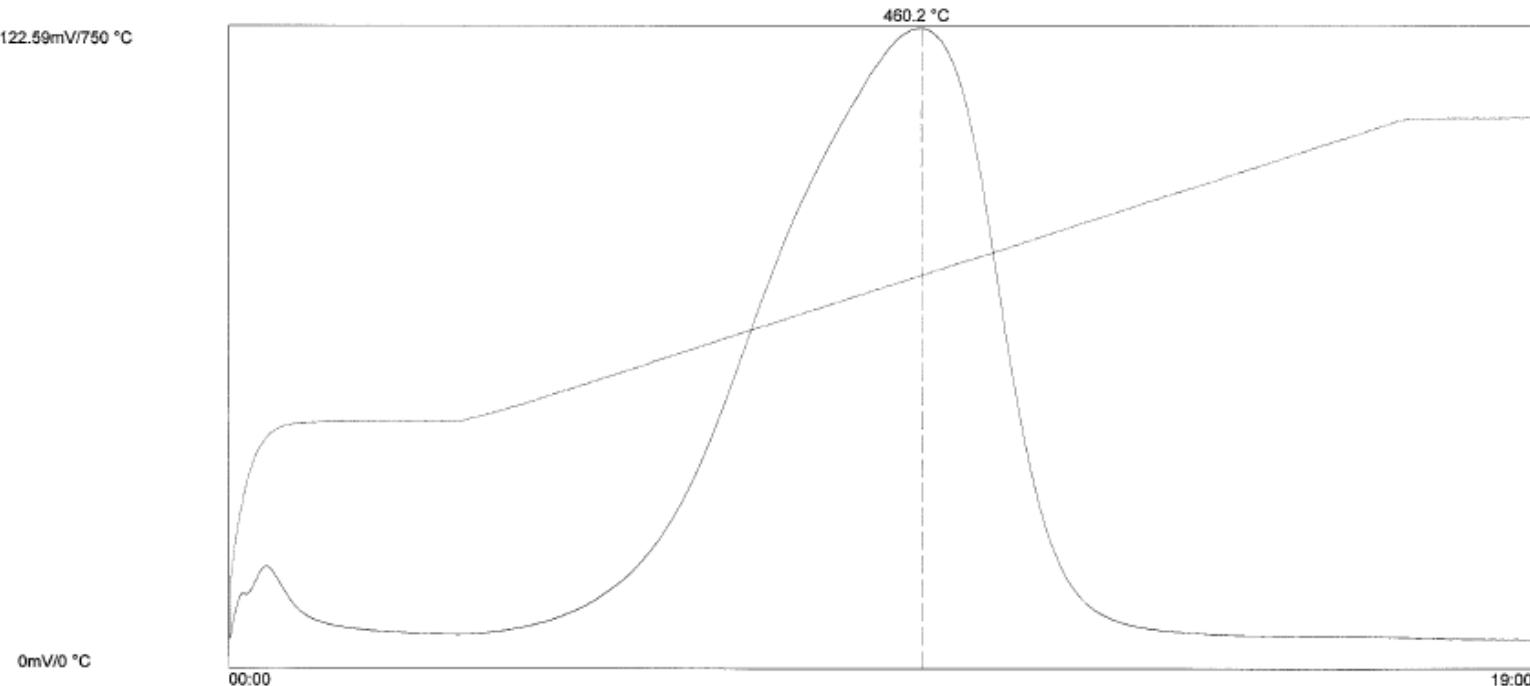
SR Analyzer - TPH Analysis

Sample ID: 26225 Acq Type: TPH Weight: 100.0 Crucible: 8
Depth: Lithology: None Well Name: N/A
Acq. Date: June 29 2015 / 6:09:02 PM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010E\26225.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010E\2015010E.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁴)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgw Instrument name: SRA

122.59mV/750 °C



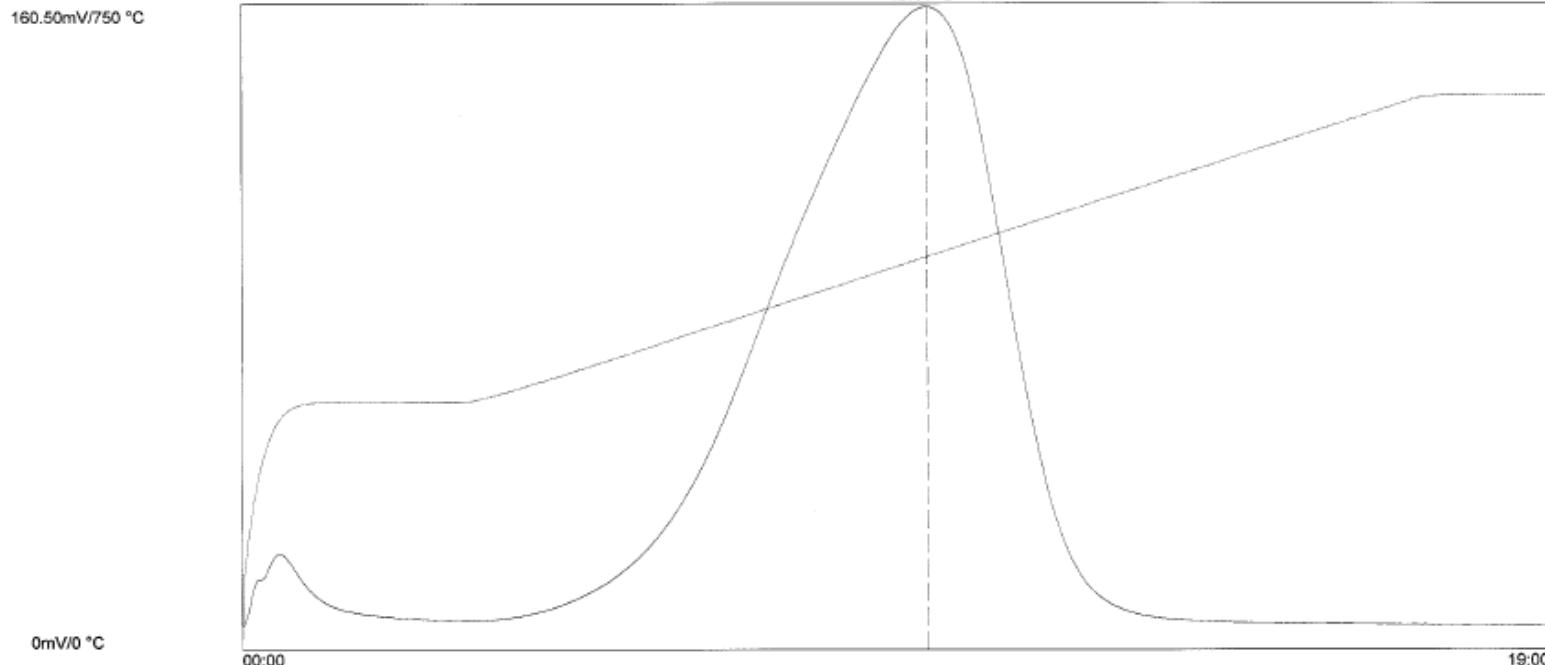
vTPH (S1): .04 mg/g pTPH (S2): 1.63 mg/g cTemp: 421.2 °C tTemp: 460.2 °C

SR Analyzer - TPH Analysis

Sample ID: 26226 Acq Type: TPH Weight: 100.6 Crucible: 9
Depth: Lithology: None Well Name: N/A
Acq. Date: June 29 2015 / 6:37:47 PM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010E\26226.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010E\2015010E.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^4)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgw Instrument name: SRA



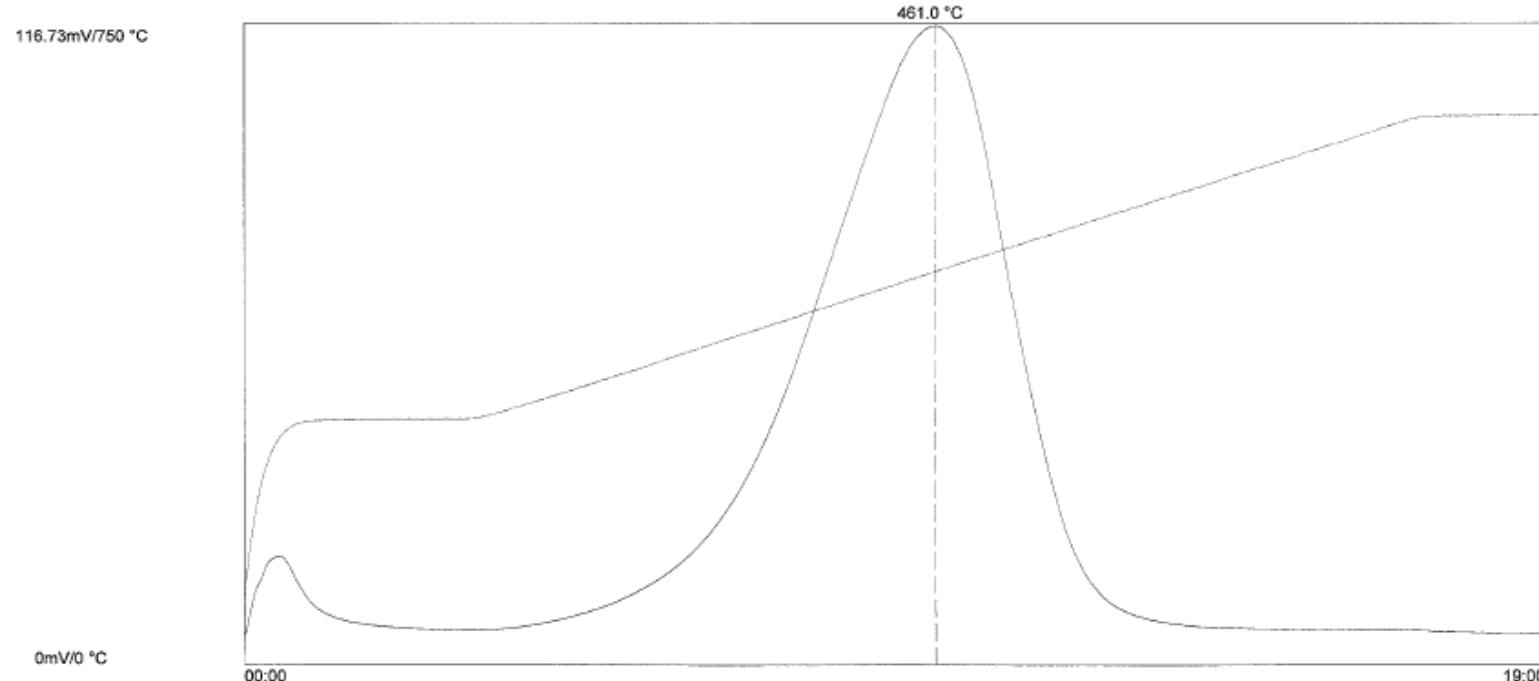
vTPH (S1): .06 mg/g pTPH (S2): 2.12 mg/g cTemp: 418.4 °C tTemp: 457.4 °C

SR Analyzer - TPH Analysis

Sample ID: 26227 Acq Type: TPH Weight: 100.4 Crucible: 11
Depth: Lithology: None Well Name: N/A
Acq. Date: June 29 2015 / 8:32:31 PM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010E\26227.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010E\2015010E.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate: 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid ($10^{4.7}$)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



vTPH (S1): .04 mg/g pTPH (S2): 1.35 mg/g cTemp: 422.0 °C tTemp: 461.0 °C

SR Analyzer - TPH Analysis

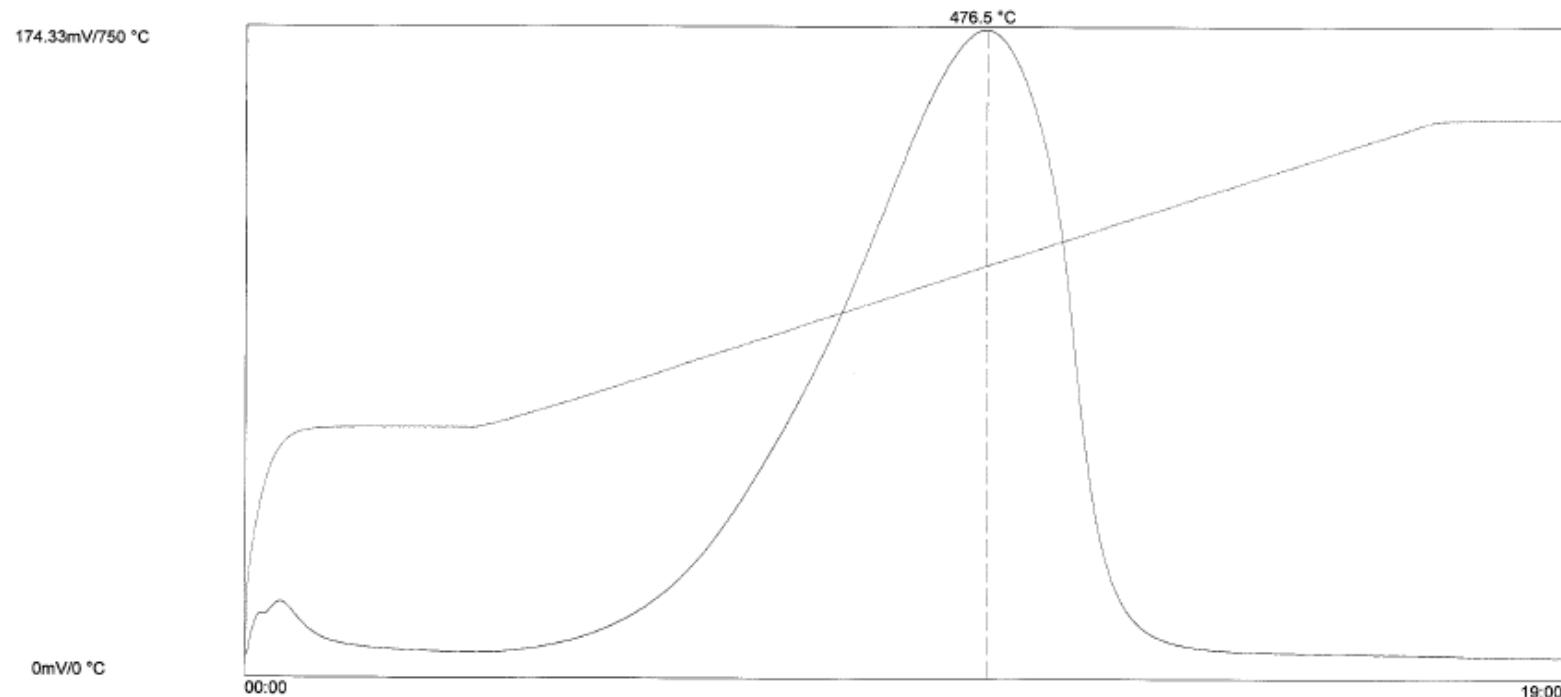
Sample ID: 26228 Acq Type: TPH Weight: 100.5
Depth: Lithology: None Well Name: N/A
Acq. Date: June 29 2015 / 9:01:16 PM

Crucible: 12

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010E\26228.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000.cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010E\2015010E.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate: 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA

174.33mV/750 °C



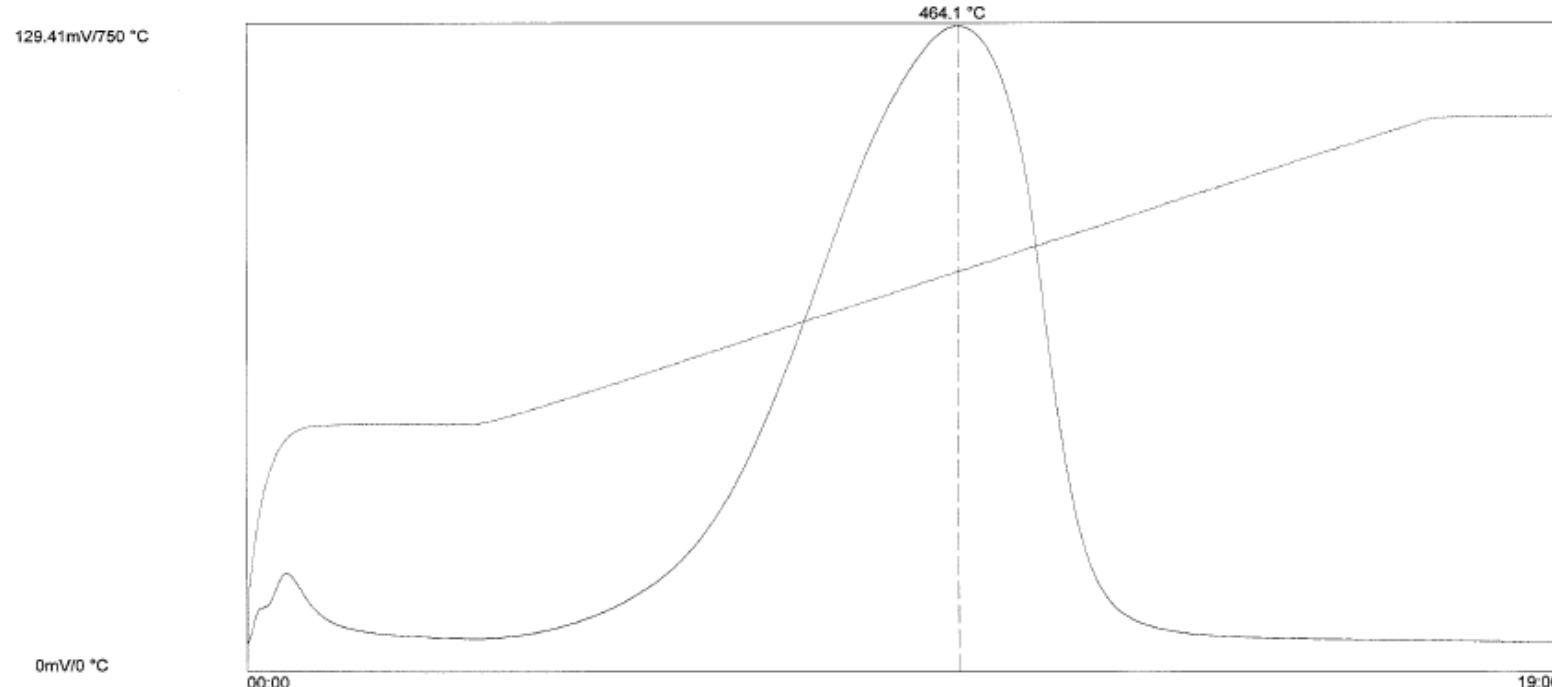
vTPH (S1): .04 mg/g pTPH (S2): 2.33 mg/g cTemp: 437.5 °C tTemp: 476.5 °C

SR Analyzer - TPH Analysis

Sample ID: 26229 Acq Type: TPH Weight: 100.8 Crucible: 13
Depth: Lithology: None Well Name: N/A
Acq. Date: June 29 2015 / 9:29:38 PM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010E\26229.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010E\2015010E.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁴)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



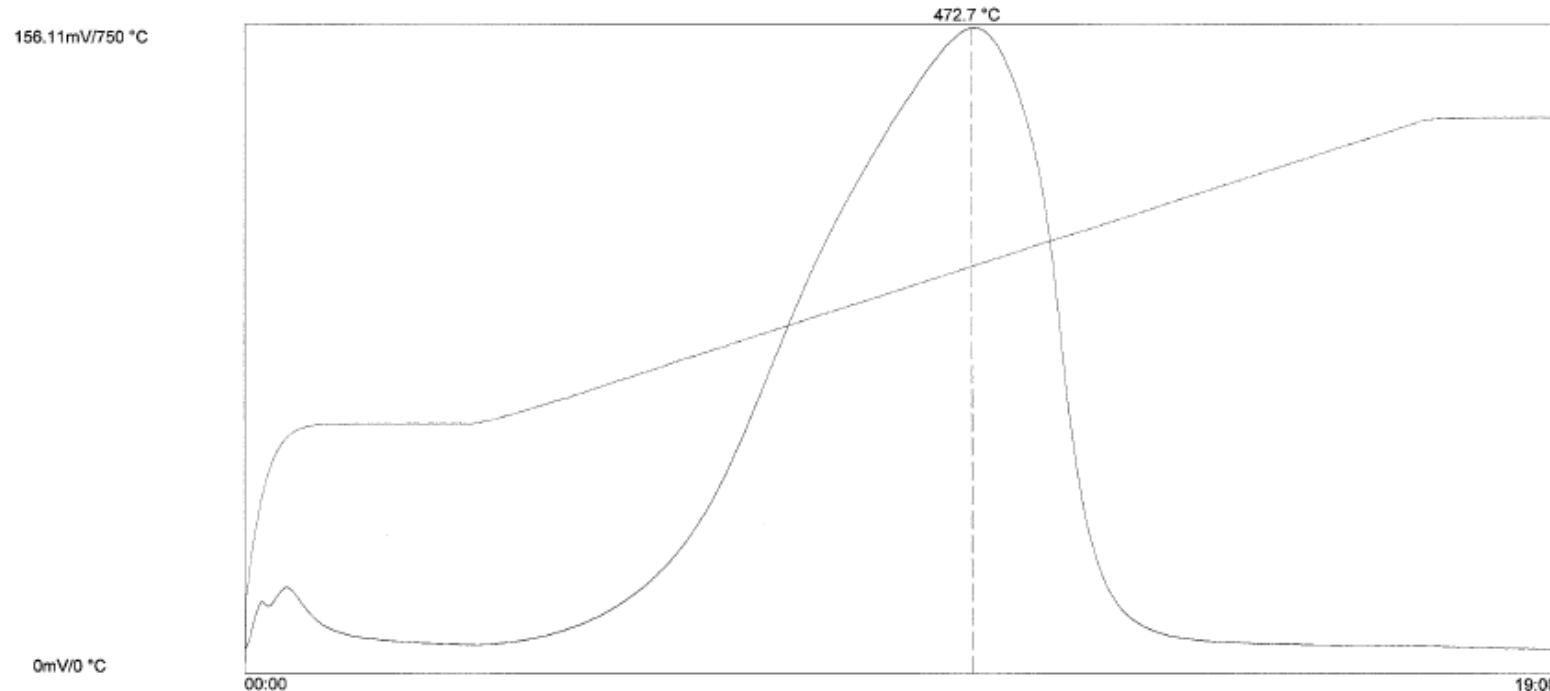
vTPH (S1): .04 mg/g pTPH (S2): 1.69 mg/g cTemp: 425.1 °C tTemp: 464.1 °C

SR Analyzer - TPH Analysis

Sample ID: 26230 Acq Type: TPH Weight: 100.2
Depth: Lithology: None Well Name: N/A
Acq. Date: June 29 2015 / 9:58:03 PM Crucible: 14

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010E\26230.RAW
Method: C:\Program Files\Thermal Station\TPH_1FP160000.cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010E\2015010E.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



vTPH (S1): .05 mg/g pTPH (S2): 2.25 mg/g cTemp: 433.7 °C tTemp: 472.7 °C

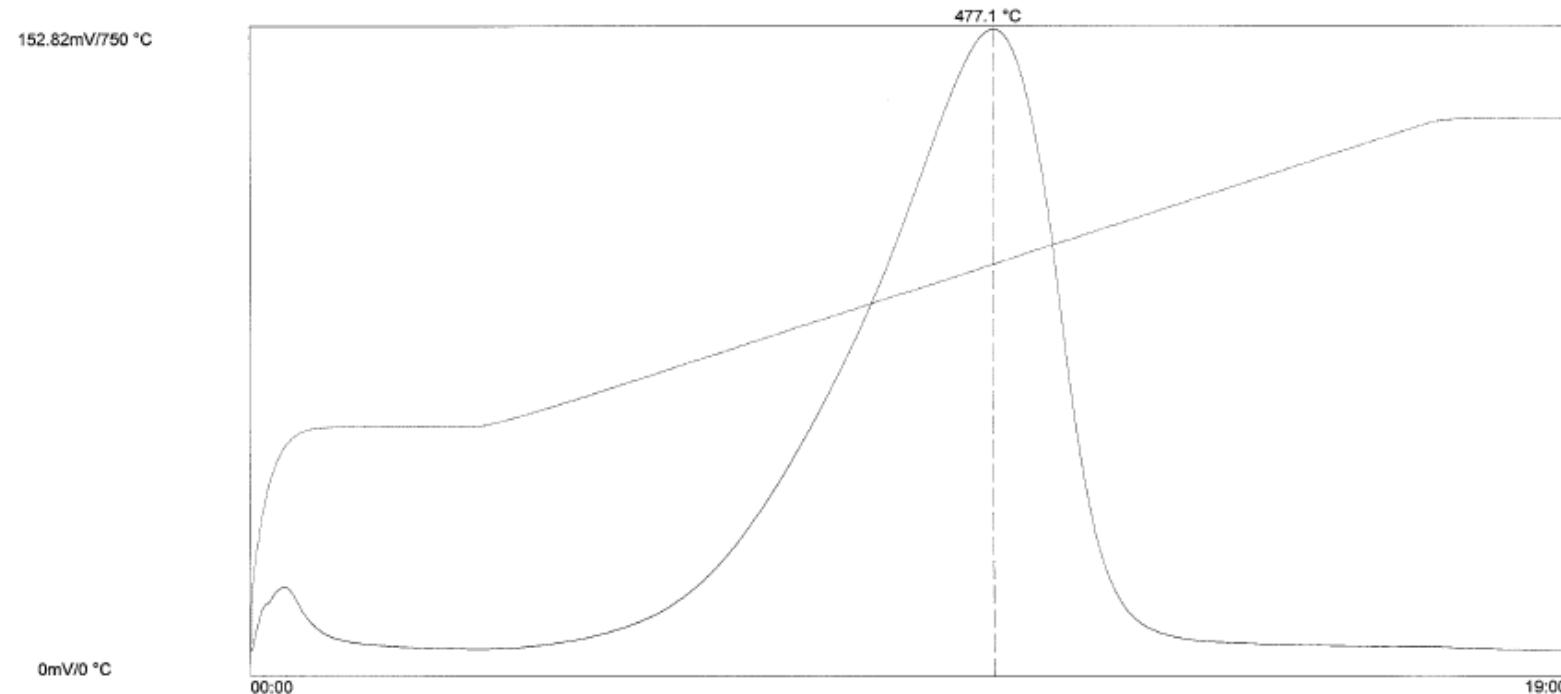
SR Analyzer - TPH Analysis

Sample ID: 26231 Acq Type: TPH Weight: 100.4
Depth: Lithology: None Well Name: N/A
Acq. Date: June 29 2015 / 10:26:37 PM

Crucible: 15

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010E\26231.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000.cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010E\2015010E.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^4)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



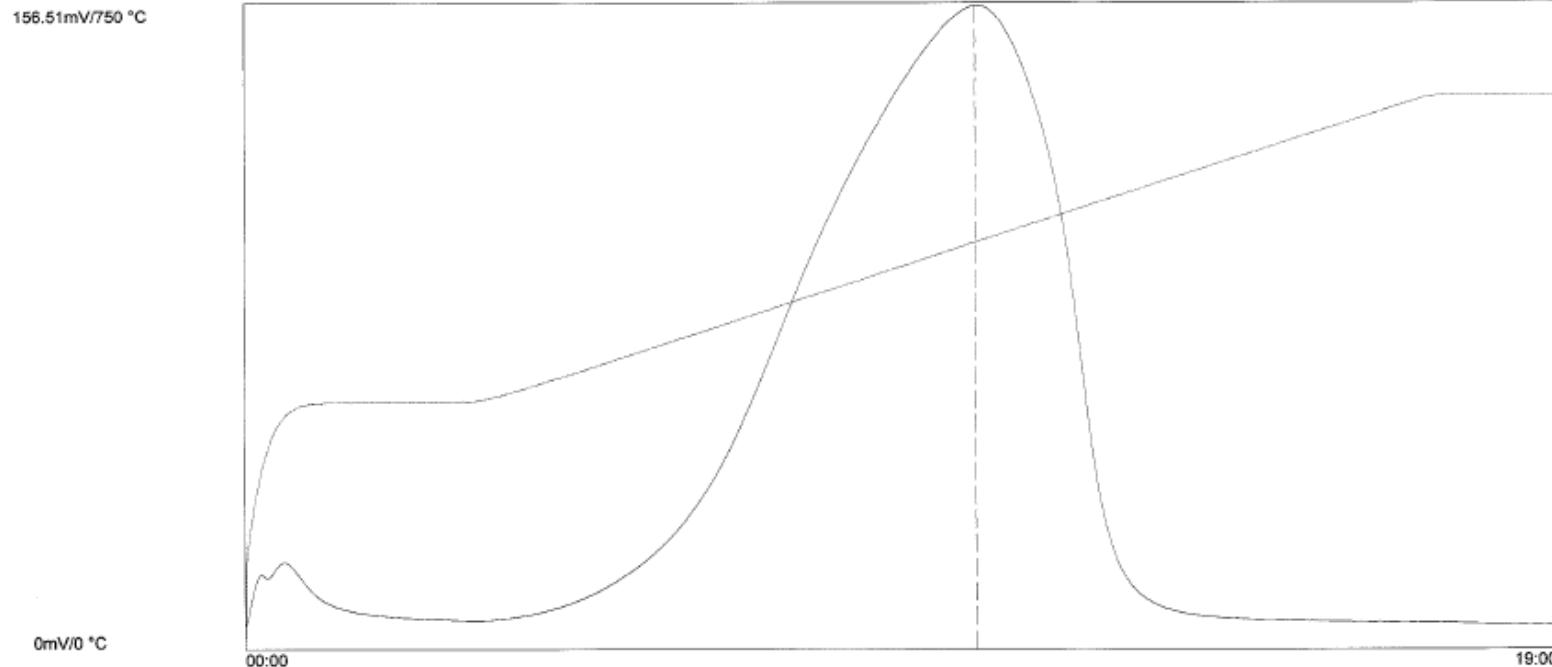
vTPH (S1): .04 mg/g pTPH (S2): 1.79 mg/g cTemp: 438.1 °C tTemp: 477.1 °C

SR Analyzer - TPH Analysis

Sample ID: 26232 Acq Type: TPH Weight: 100.4
Depth: Lithology: None Well Name: N/A
Acq. Date: June 29 2015 / 10:55:16 PM Crucible: 16

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010E\26232.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010E\2015010E.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10⁴)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



vTPH (S1): .05 mg/g pTPH (S2): 2.32 mg/g cTemp: 434.3 °C tTemp: 473.3 °C

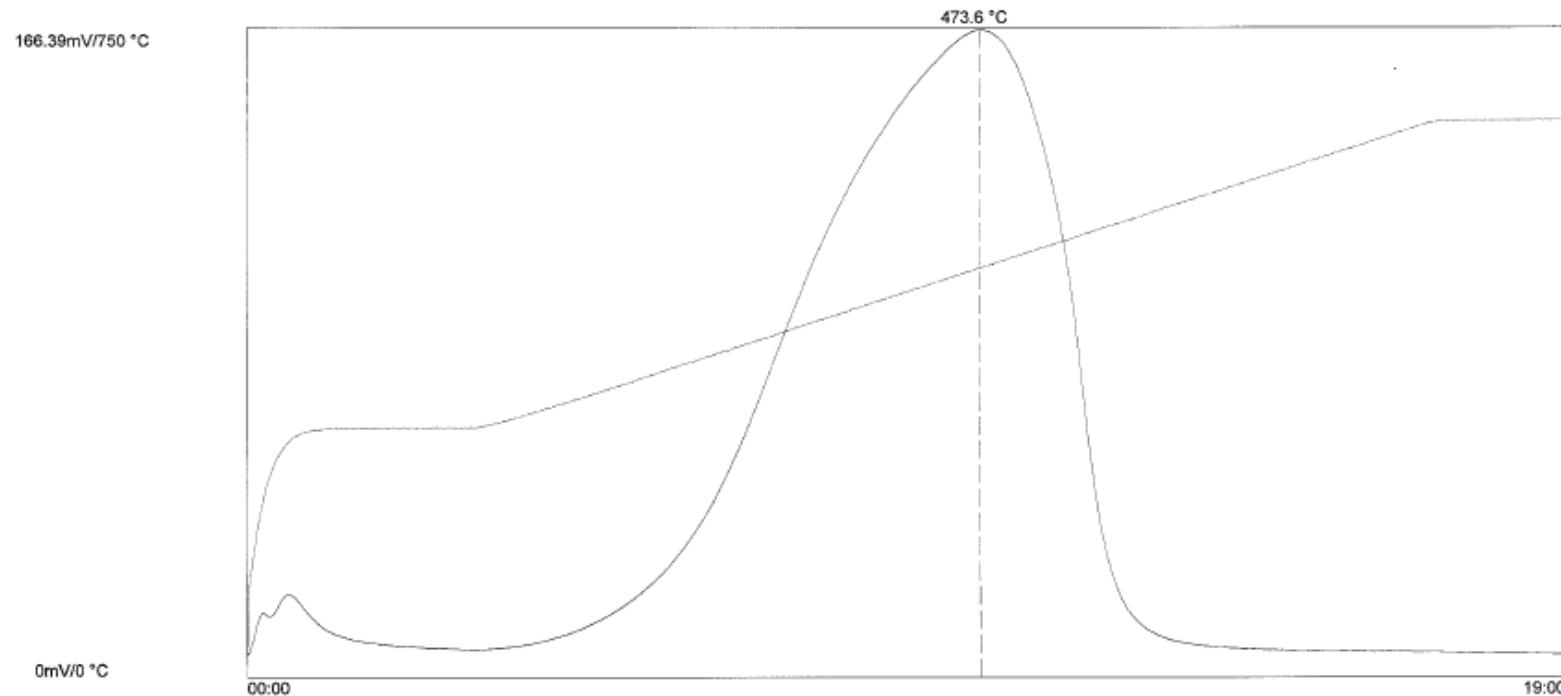
SR Analyzer - TPH Analysis

Sample ID: 26233 Acq Type: TPH Weight: 100.8
Depth: Lithology: None Well Name: N/A
Acq. Date: June 29 2015 / 11:23:53 PM

Crucible: 17

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010E\26233.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010E\2015010E.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^4)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



vTPH (S1): .05 mg/g pTPH (S2): 2.51 mg/g cTemp: 434.6 °C tTemp: 473.6 °C

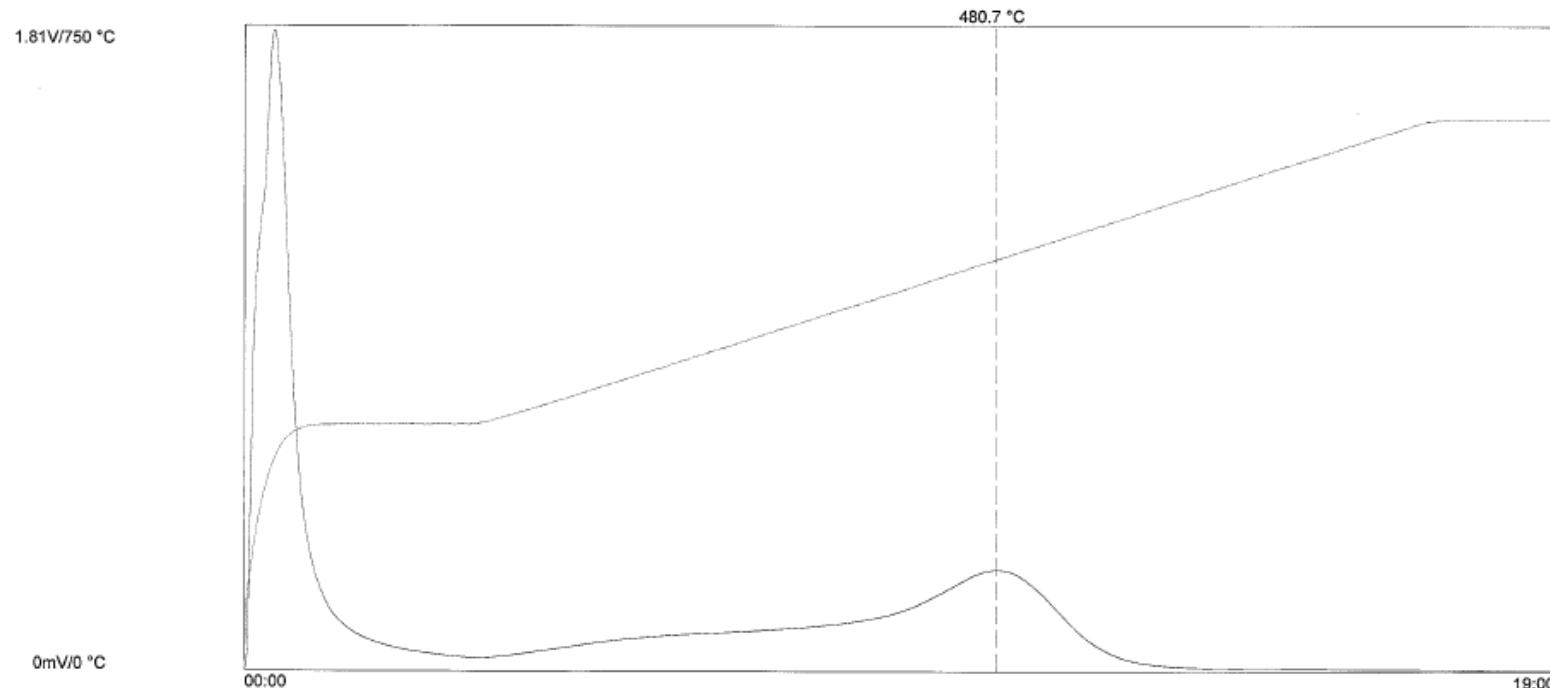
3. Appendix 1a. Pyrograms, Sidewall core samples

SR Analyzer - TPH Analysis

Sample ID: 26268 Acq Type: TPH Weight: 100.9
Depth: Lithology: None Well Name: N/A
Acq. Date: August 26 2015 / 10:42:57 AM Crucible: 3

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010F\26268.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010F\2015010F.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



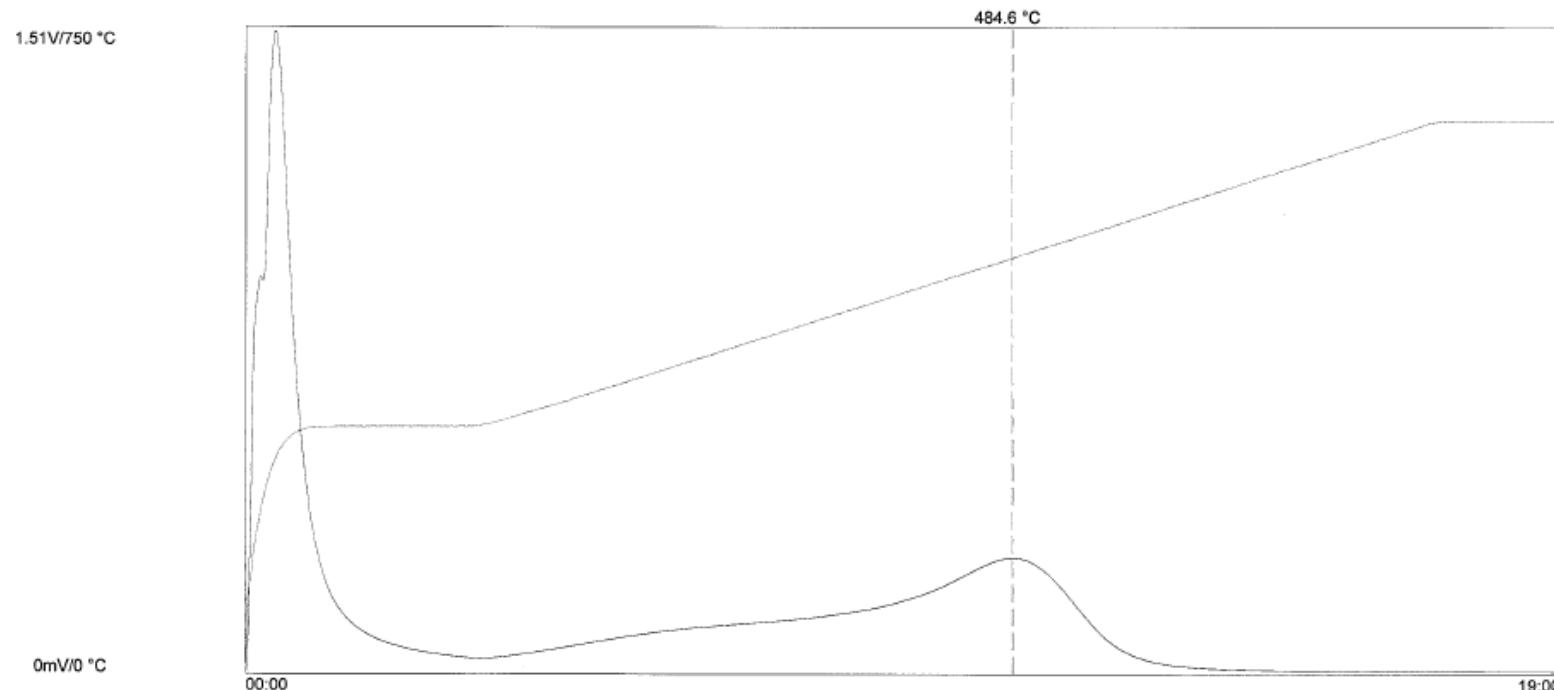
vTPH (S1): 4.23 mg/g pTPH (S2): 4.28 mg/g cTemp: 441.7 °C tTemp: 480.7 °C

SR Analyzer - TPH Analysis

Sample ID: 26269 Acq Type: TPH Weight: 100.7
Depth: Lithology: None Well Name: N/A
Acq. Date: August 26 2015 / 11:11:28 AM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010F\26269.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010F\2015010F.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^7)

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA



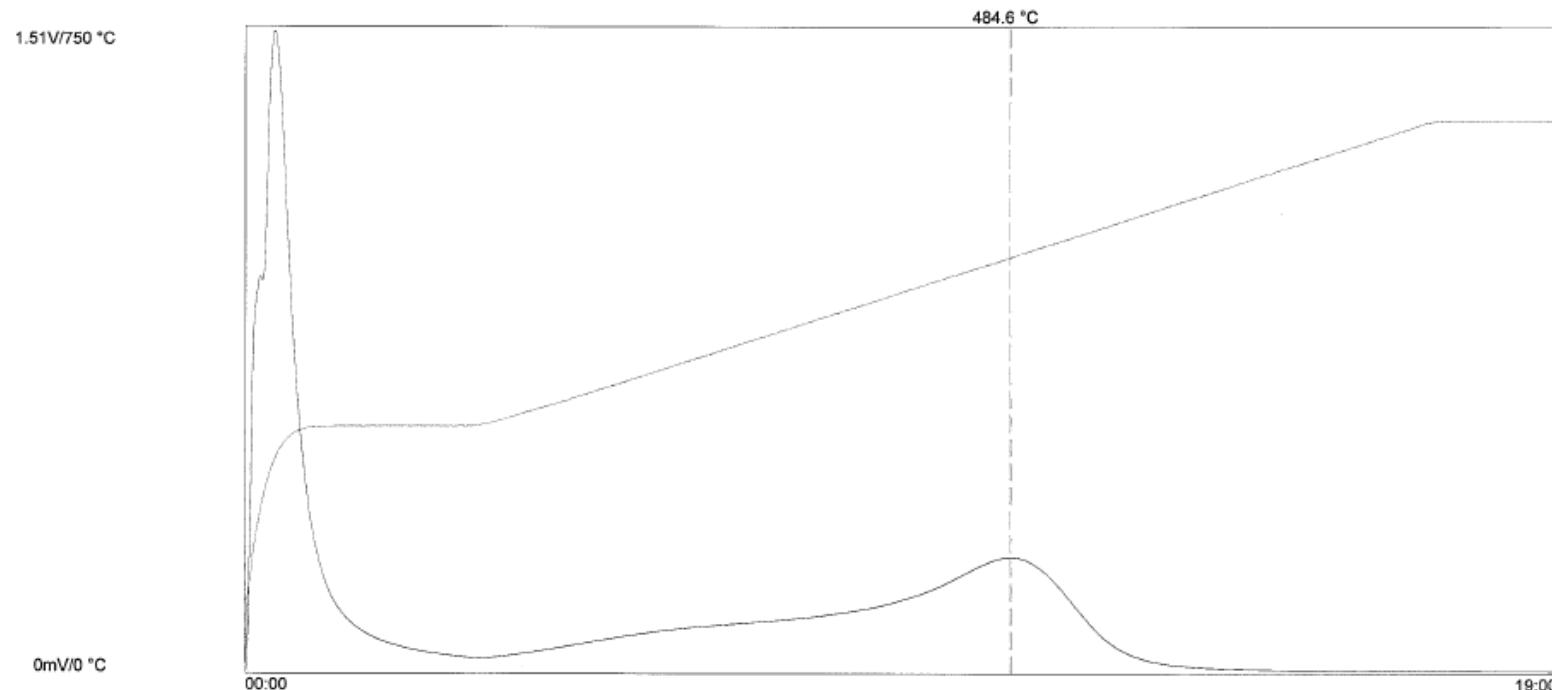
vTPH (S1): 3.78 mg/g pTPH (S2): 4.43 mg/g cTemp: 445.6 °C tTemp: 484.6 °C

SR Analyzer - TPH Analysis

Sample ID: 26269 Acq Type: TPH Weight: 100.7 Crucible: 4
Depth: Lithology: None Well Name: N/A
Acq. Date: August 26 2015 / 11:11:28 AM

Data: C:\Program Files\Thermal Station\Data\TPH_2015\2015010F\26269.RAW
Method: C:\Program Files\Thermal Station\TPH_IFP160000_cal_650.PAR
Sequence: C:\Program Files\Thermal Station\Data\TPH_2015\2015010F\2015010F.pas
Method Information: Initial Temp: 300 °C Initial Time: 3 Min Rate : 25.0 °C/Min Final Temp: 650 °C Final Time: 2 Min
Detector Temp: 325 °C
Detector Gain: Mid (10^{A7})

Calibration Information: Standard Name: 160000 tTemp: 455.0 °C pTPH (S2): 12.43 mg/g
Operator: cgu Instrument name: SRA

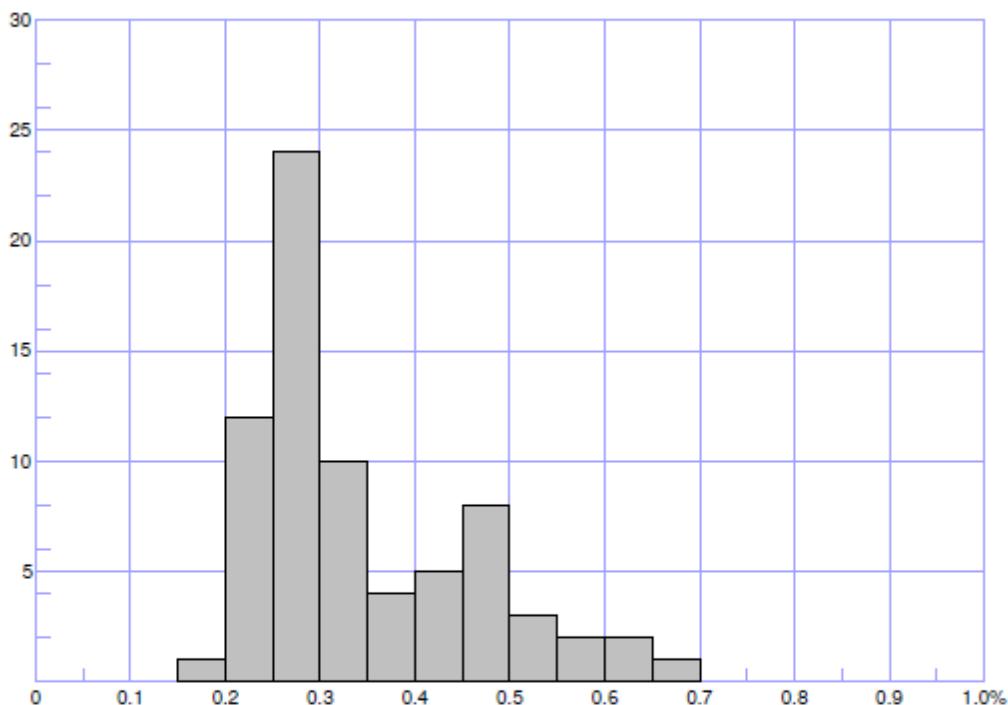


vTPH (S1): 3.78 mg/g pTPH (S2): 4.43 mg/g cTemp: 445.6 °C tTemp: 484.6 °C

4. Appendix 2 Vitrinite reflectance histograms, total and selected populations

Sample : 26238

Activity no: 2015010; Standard: 0.903%
Locality: Xana-1X; Depth: 3170'
Material: Extracted cuttings



Measure count = 72
Reflectance Rr = 0.346 %
s = 0.116 %

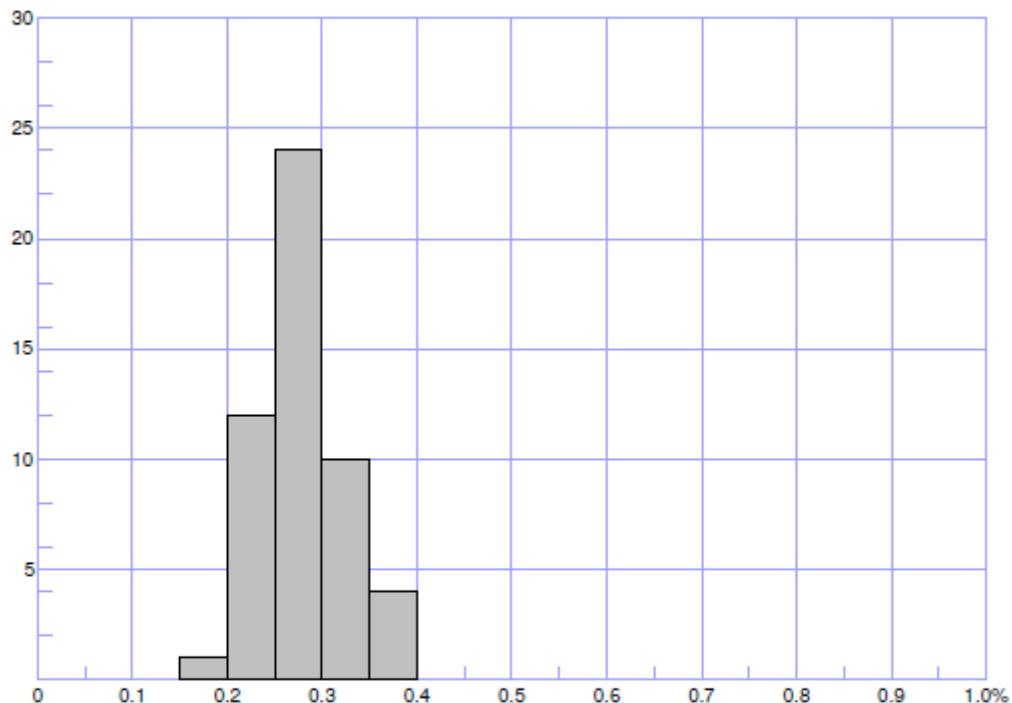
Date 7/13/2015 10:36 AM
Operator cgus
Printed 7/13/2015

0.15 - 0.20 % R	1	0.45 - 0.50 % R	8
0.20 - 0.25 % R	12	0.50 - 0.55 % R	3
0.25 - 0.30 % R	24	0.55 - 0.60 % R	2
0.30 - 0.35 % R	10	0.60 - 0.65 % R	2
0.35 - 0.40 % R	4	0.65 - 0.70 % R	1
0.40 - 0.45 % R	5		

F=3.0.5268 D=4.80.8520

Sample : 26238

Activity no: 2015010; Standard: 0.903%
Locality: Xana-1X; Depth: 3170'
Material: Extracted cuttings



Measure count = 51
Reflectance Rr = 0.281 %
s = 0.046 %

Date 7/13/2015 10:36 AM
Operator cgus
Printed 7/13/2015

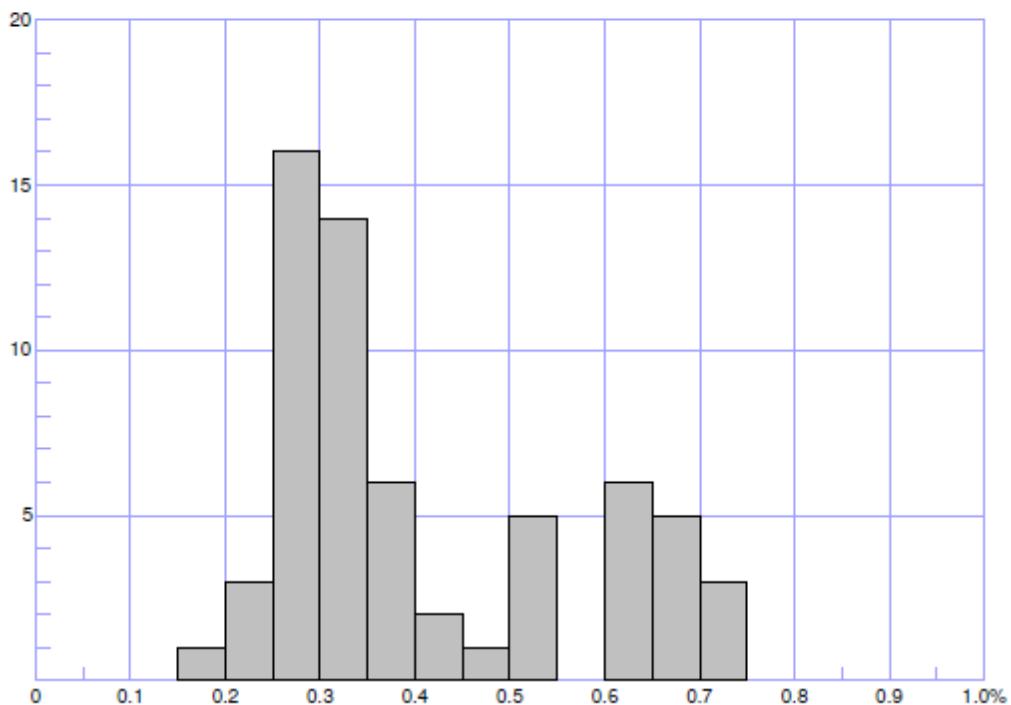
0.15 - 0.20 % R 1
0.20 - 0.25 % R 12
0.25 - 0.30 % R 24

0.30 - 0.35 % R 10
0.35 - 0.40 % R 4

F=3.0.5268 D=4.80.8520

Sample : 26239

Activity no: 2015010; Standard: 0.903%
Locality: Xana-1X; Depth: 4000'
Material: Extracted cuttings



Measure count = 62
Reflectance Rr = 0.409 %
s = 0.156 %

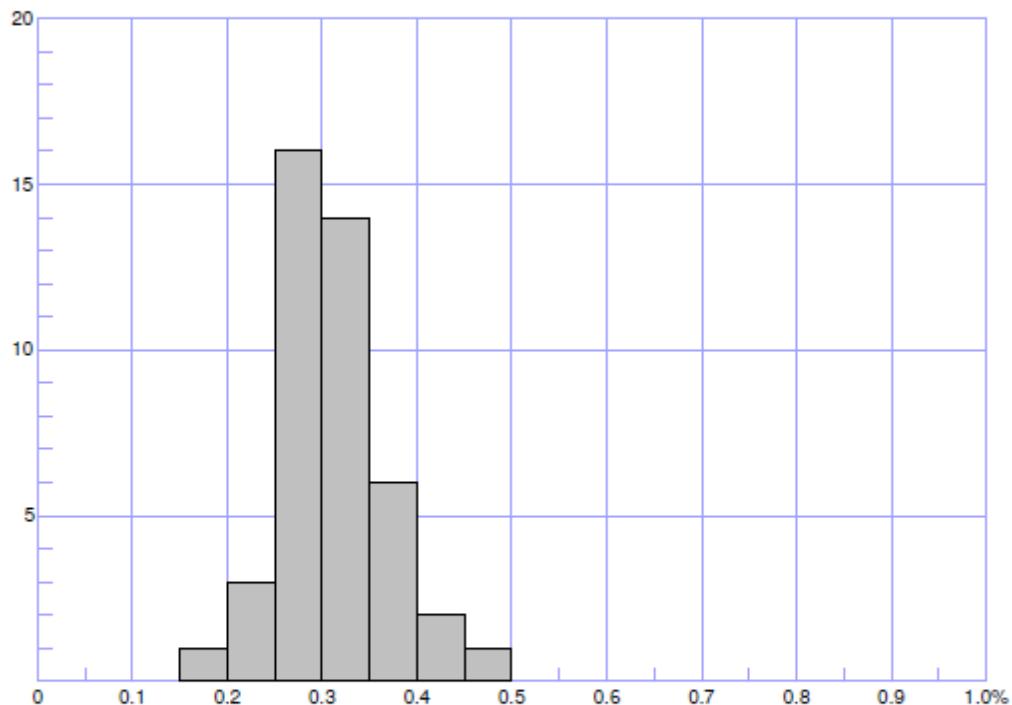
Date 7/13/2015 01:17 PM
Operator cgu
Printed 7/13/2015

0.15 - 0.20 % R	1	0.45 - 0.50 % R	1
0.20 - 0.25 % R	3	0.50 - 0.55 % R	5
0.25 - 0.30 % R	16	0.60 - 0.65 % R	6
0.30 - 0.35 % R	14	0.65 - 0.70 % R	5
0.35 - 0.40 % R	6	0.70 - 0.75 % R	3
0.40 - 0.45 % R	2		

F=3.05268 D=4.808520

Sample : 26239

Activity no: 2015010; Standard: 0.903%
Locality: Xana-1X; Depth: 4000'
Material: Extracted cuttings



Measure count = 43
Reflectance Rr = 0.314 %
s = 0.055 %

Date 7/13/2015 01:17 PM
Operator cgú
Printed 7/13/2015

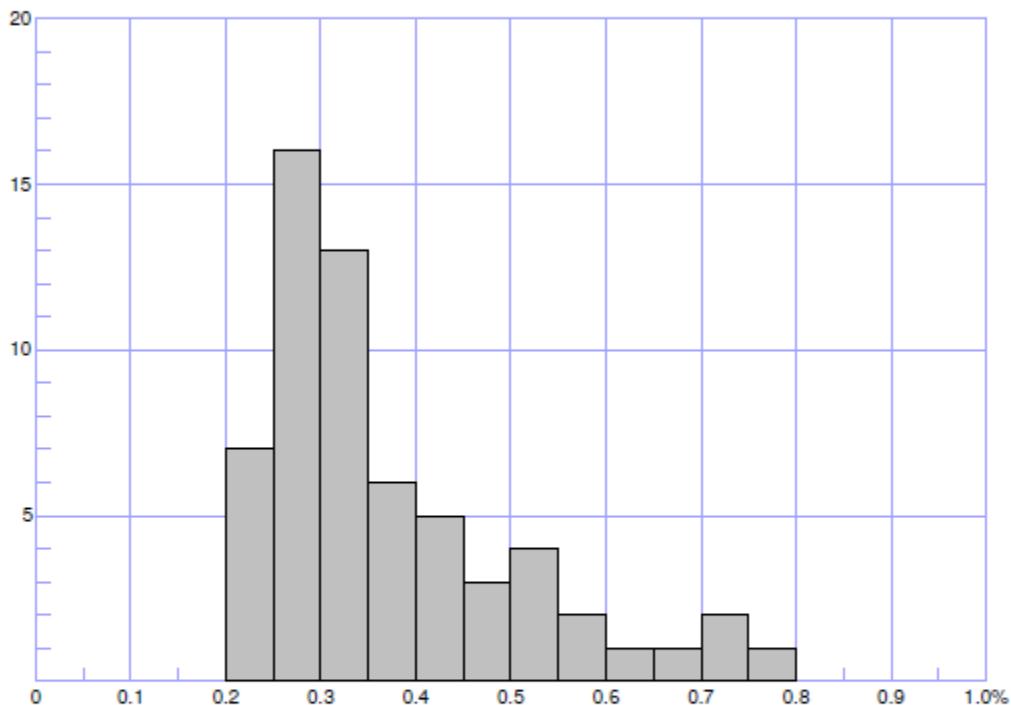
0.15 - 0.20 % R 1
0.20 - 0.25 % R 3
0.25 - 0.30 % R 16
0.30 - 0.35 % R 14

0.35 - 0.40 % R 6
0.40 - 0.45 % R 2
0.45 - 0.50 % R 1

F=3.05268 D=4.80.8520

Sample : 26240

Activity no: 2015010; Standard: 0.903%
Locality: Xana-1X; Depth: 5000'
Material: Extracted cuttings



Measure count = 61
Reflectance Rr = 0.373 %
s = 0.132 %

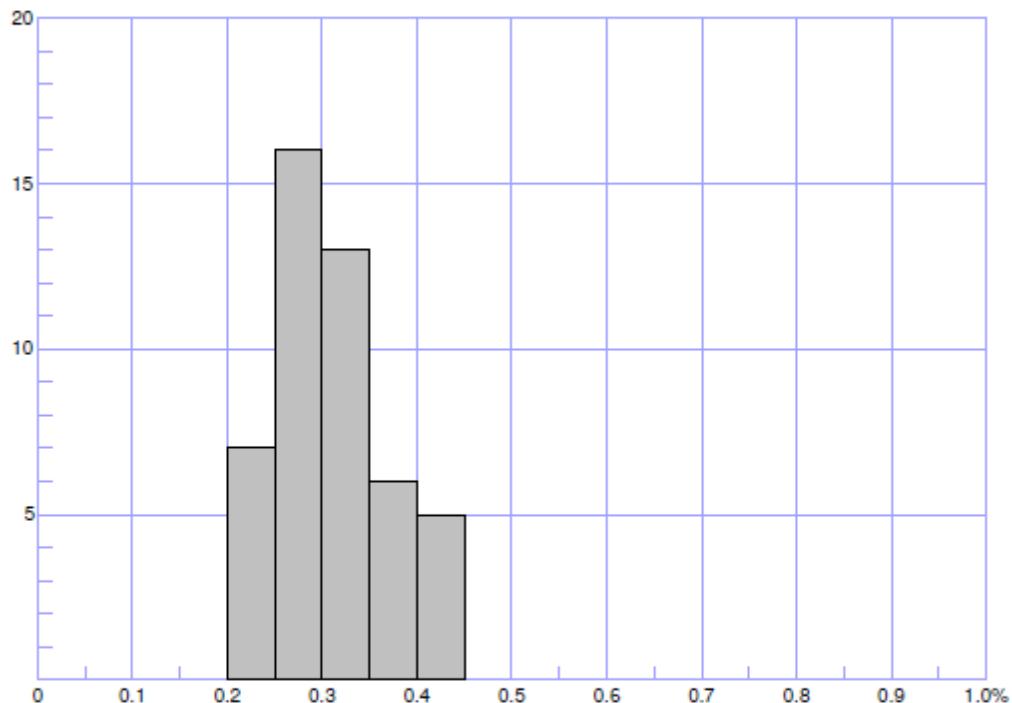
Date 7/13/2015 04:06 PM
Operator cgu
Printed 7/13/2015

0.20 - 0.25 % R	7	0.50 - 0.55 % R	4
0.25 - 0.30 % R	16	0.55 - 0.60 % R	2
0.30 - 0.35 % R	13	0.60 - 0.65 % R	1
0.35 - 0.40 % R	6	0.65 - 0.70 % R	1
0.40 - 0.45 % R	5	0.70 - 0.75 % R	2
0.45 - 0.50 % R	3	0.75 - 0.80 % R	1

F=3.0.5268 D=4.80.8520

Sample : 26240

Activity no: 2015010; Standard: 0.903%
Locality: Xana-1X; Depth: 5000'
Material: Extracted cuttings



Measure count = 47
Reflectance Rr = 0.312 %
s = 0.061 %

Date 7/13/2015 04:06 PM
Operator cgus
Printed 7/13/2015

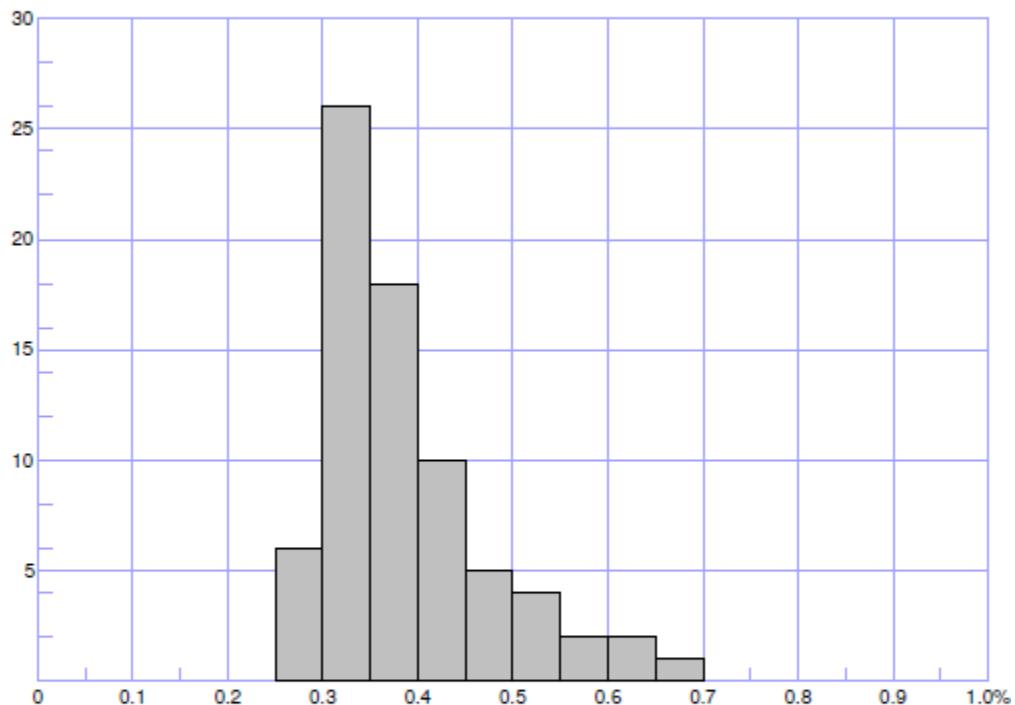
0.20 - 0.25 % R 7
0.25 - 0.30 % R 16
0.30 - 0.35 % R 13

0.35 - 0.40 % R 6
0.40 - 0.45 % R 5

F=3.0.5268 D=4.80.8520

Sample : 26241

Activity no: 2015010; Standard: 0.903%
Locality: Xana-1X; Depth: 6000'
Material: Extracted cuttings



Measure count = 74
Reflectance Rr = 0.387 %
s = 0.086 %

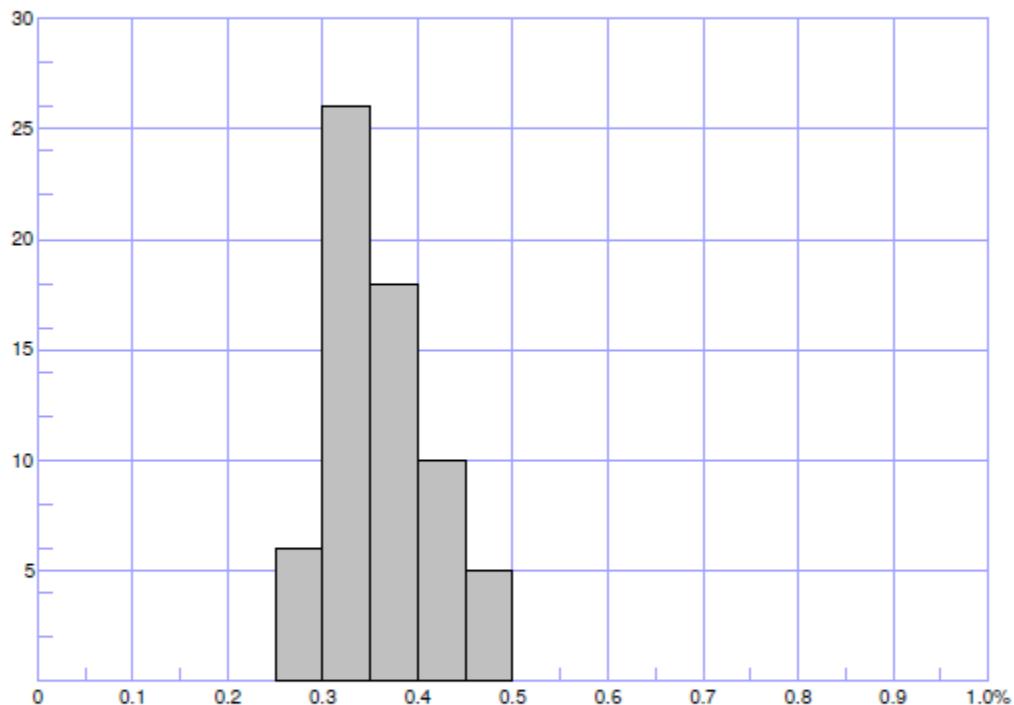
Date 7/15/2015 08:31 AM
Operator cgu
Printed 7/15/2015

0.25 - 0.30 % R	6	0.50 - 0.55 % R	4
0.30 - 0.35 % R	26	0.55 - 0.60 % R	2
0.35 - 0.40 % R	18	0.60 - 0.65 % R	2
0.40 - 0.45 % R	10	0.65 - 0.70 % R	1
0.45 - 0.50 % R	5		

F=3.0.5268 D=4.80.8520

Sample : 26241

Activity no: 2015010; Standard: 0.903%
Locality: Xana-1X; Depth: 6000'
Material: Extracted cuttings



Measure count = 65
Reflectance Rr = 0.361 %
s = 0.052 %

Date 7/15/2015 08:31 AM
Operator cgu
Printed 7/15/2015

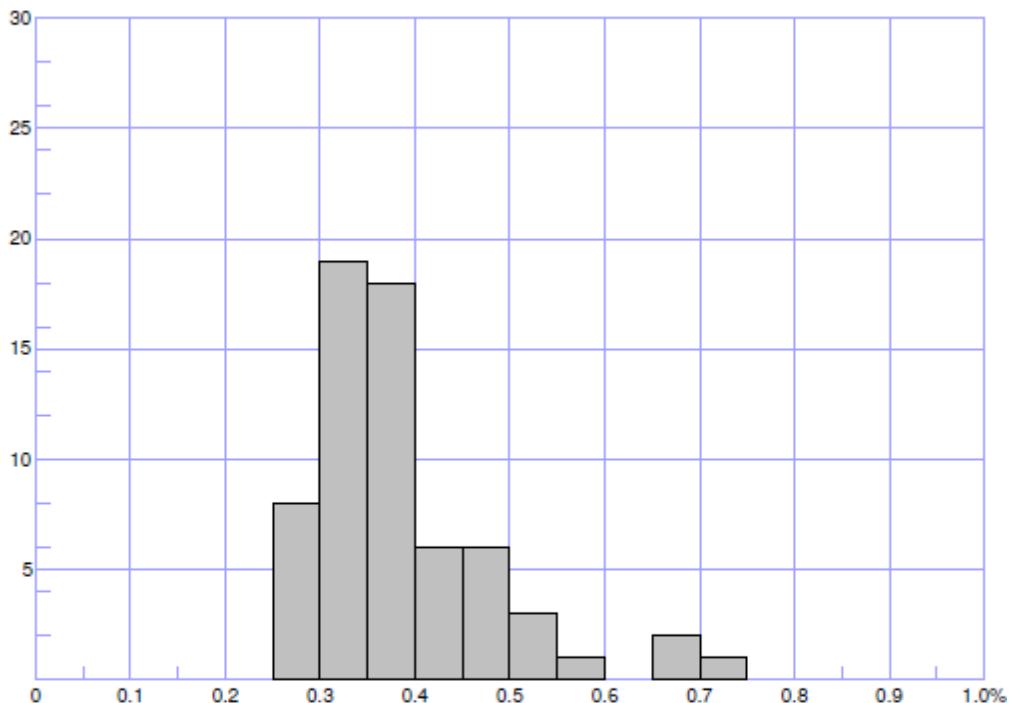
0.25 - 0.30 % R 6
0.30 - 0.35 % R 26
0.35 - 0.40 % R 18

0.40 - 0.45 % R 10
0.45 - 0.50 % R 5

F=3.05268 D=4.80.8520

Sample : 26255

Activity no: 2015010; Standard: 0.903%
Locality: Xana-1X; Depth: 7080'
Material: Extracted cuttings



Measure count = 64
Reflectance Rr = 0.386 %
s = 0.097 %

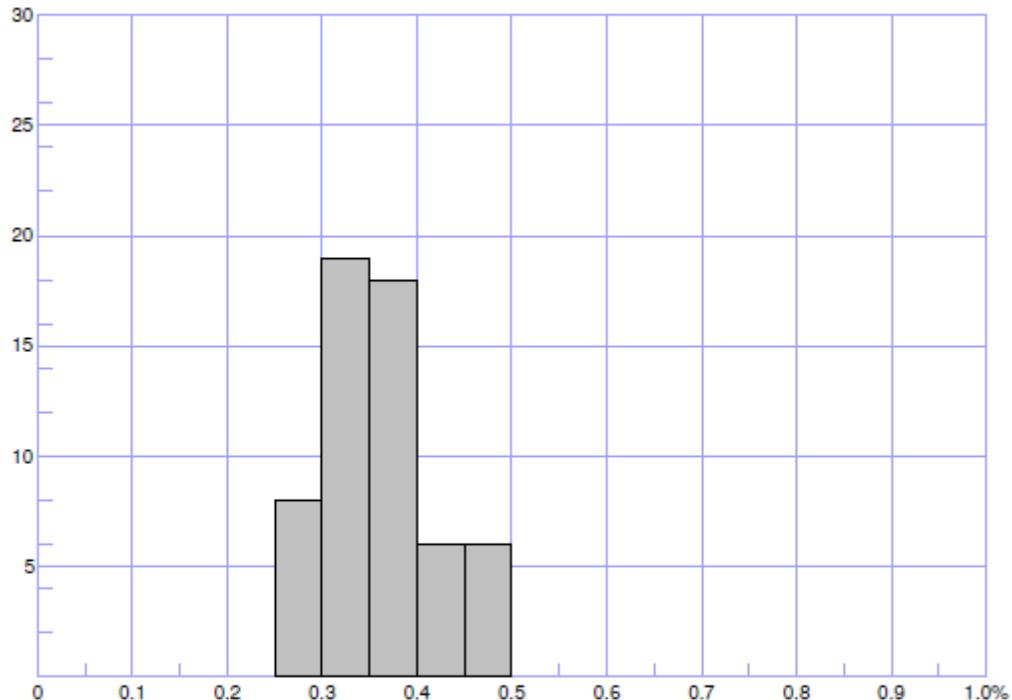
Date 7/15/2015 10:15 AM
Operator cgú
Printed 7/15/2015

0.25 - 0.30 % R	8	0.50 - 0.55 % R	3
0.30 - 0.35 % R	19	0.55 - 0.60 % R	1
0.35 - 0.40 % R	18	0.65 - 0.70 % R	2
0.40 - 0.45 % R	6	0.70 - 0.75 % R	1
0.45 - 0.50 % R	6		

F=3.05268 D=4.80.8520

Sample : 26255

Activity no: 2015010; Standard: 0.903%
Locality: Xana-1X; Depth: 7080'
Material: Extracted cuttings



Measure count = 57
Reflectance Rr = 0.360 %
s = 0.057 %

Date 7/15/2015 10:15 AM
Operator cgu
Printed 7/15/2015

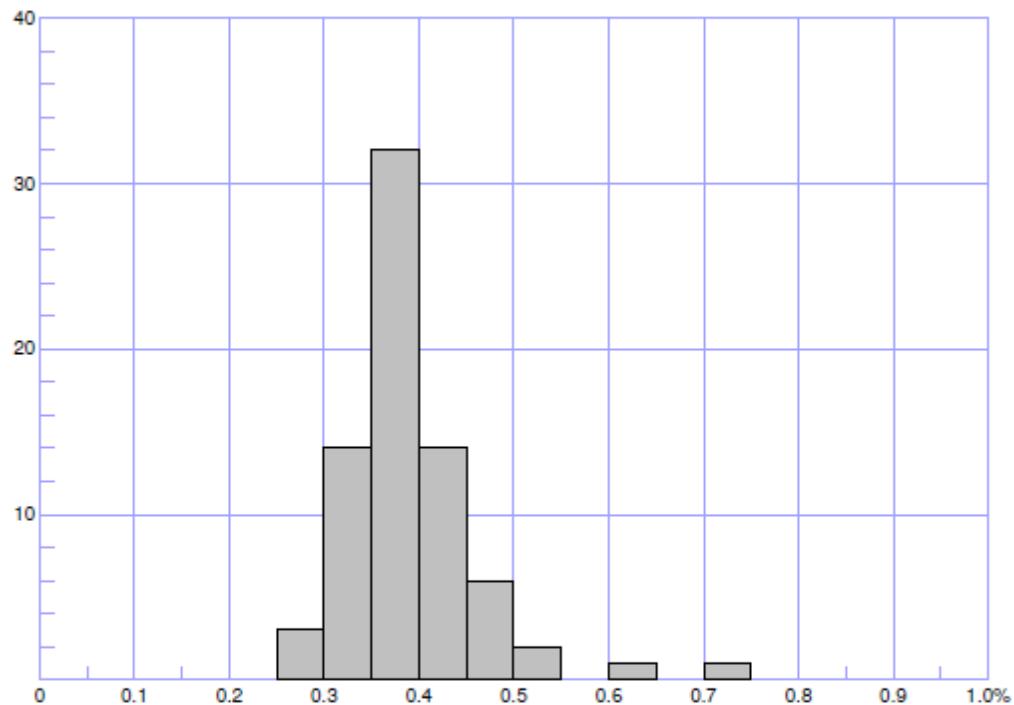
0.25 - 0.30 % R 8
0.30 - 0.35 % R 19
0.35 - 0.40 % R 18

0.40 - 0.45 % R 6
0.45 - 0.50 % R 6

F=3.05268 D=4.80.8520

Sample : 26256

Activity no: 2015010; Standard: 0.903%
Locality: Xana-1X; Depth: 8000'
Material: Extracted cuttings



Measure count = 73
Reflectance Rr = 0.396 %
s = 0.070 %

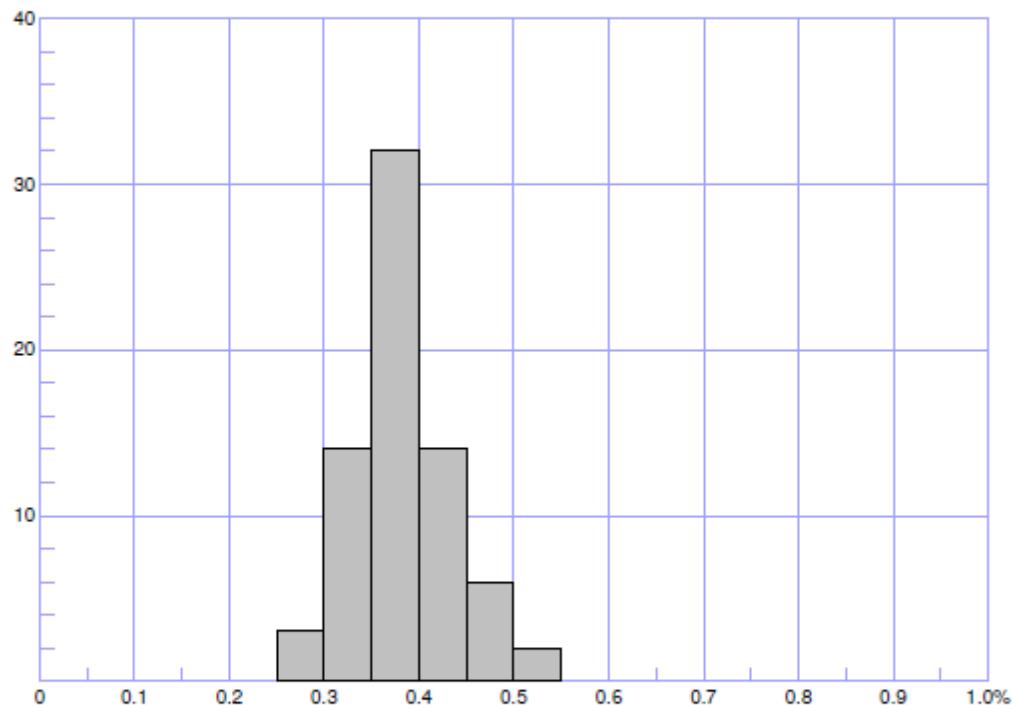
Date 7/15/2015 01:27 PM
Operator cgus
Printed 7/15/2015

0.25 - 0.30 % R	3	0.45 - 0.50 % R	6
0.30 - 0.35 % R	14	0.50 - 0.55 % R	2
0.35 - 0.40 % R	32	0.60 - 0.65 % R	1
0.40 - 0.45 % R	14	0.70 - 0.75 % R	1

F=3.05268 D=4.80.8520

Sample : 26256

Activity no: 2015010; Standard: 0.903%
Locality: Xana-1X; Depth: 8000'
Material: Extracted cuttings



Measure count = 71
Reflectance Rr = 0.388 %
s = 0.054 %

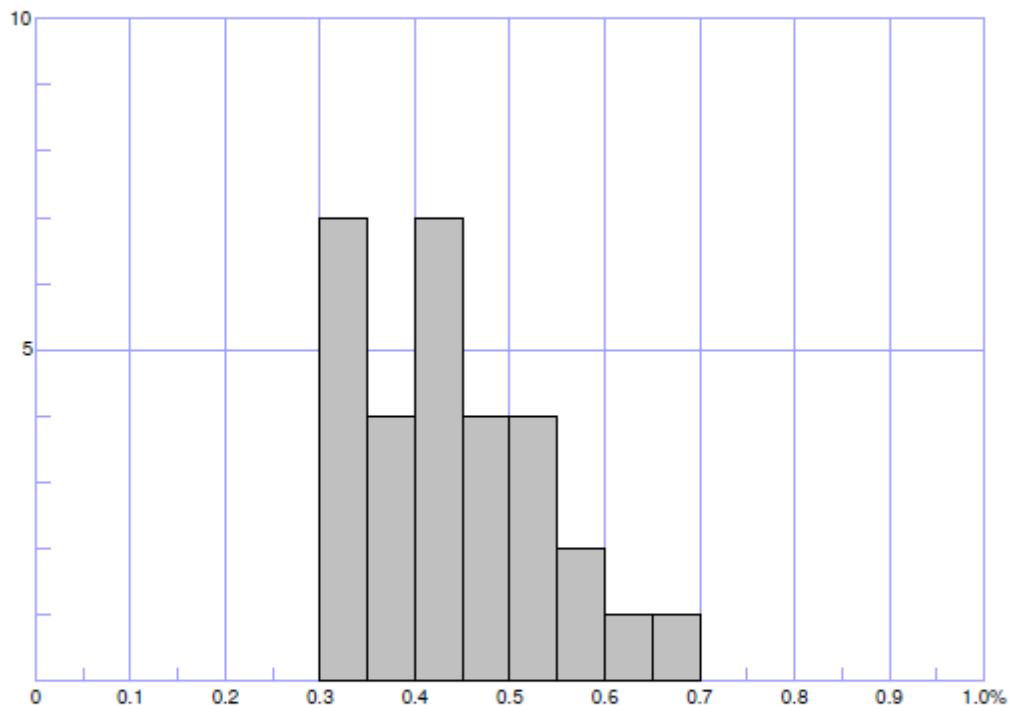
Date 7/15/2015 01:27 PM
Operator cgu
Printed 7/15/2015

Reflectance Range (%)	Count	Reflectance Range (%)	Count
0.25 - 0.30 % R	3	0.40 - 0.45 % R	14
0.30 - 0.35 % R	14	0.45 - 0.50 % R	6
0.35 - 0.40 % R	32	0.50 - 0.55 % R	2

F=3.05268 D=4.80.8520

Sample : 26257

Activity no: 2015010; Standard: 0903%
Locality: Xana-1X; Depth: 9000'
Material: Extracted cuttings



Measure count = 30
Reflectance Rr = 0.440 %
s = 0.091 %

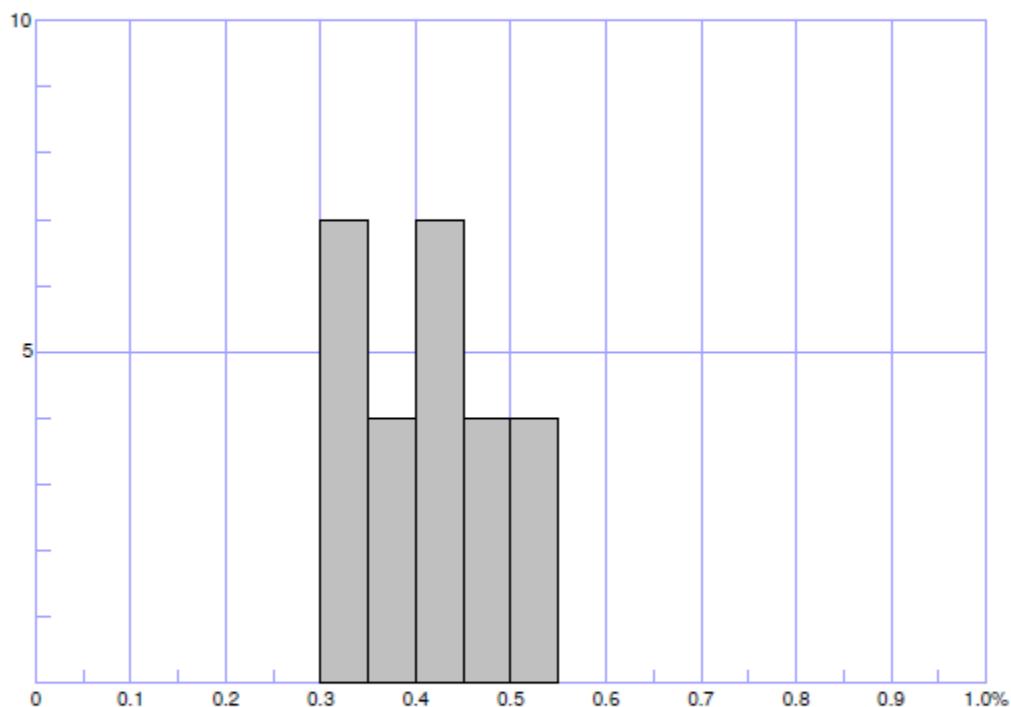
Date 7/16/2015 08:34 AM
Operator cgu
Printed 7/16/2015

0.30 - 0.35 % R	7	0.50 - 0.55 % R	4
0.35 - 0.40 % R	4	0.55 - 0.60 % R	2
0.40 - 0.45 % R	7	0.60 - 0.65 % R	1
0.45 - 0.50 % R	4	0.65 - 0.70 % R	1

F=3.05268 D=4.80.8520

Sample : 26257

Activity no: 2015010; Standard: 0903%
Locality: Xana-1X; Depth: 9000'
Material: Extracted cuttings



Measure count = 26
Reflectance Rr = 0.413 %
s = 0.065 %

Date 7/16/2015 08:34 AM
Operator cgu
Printed 7/16/2015

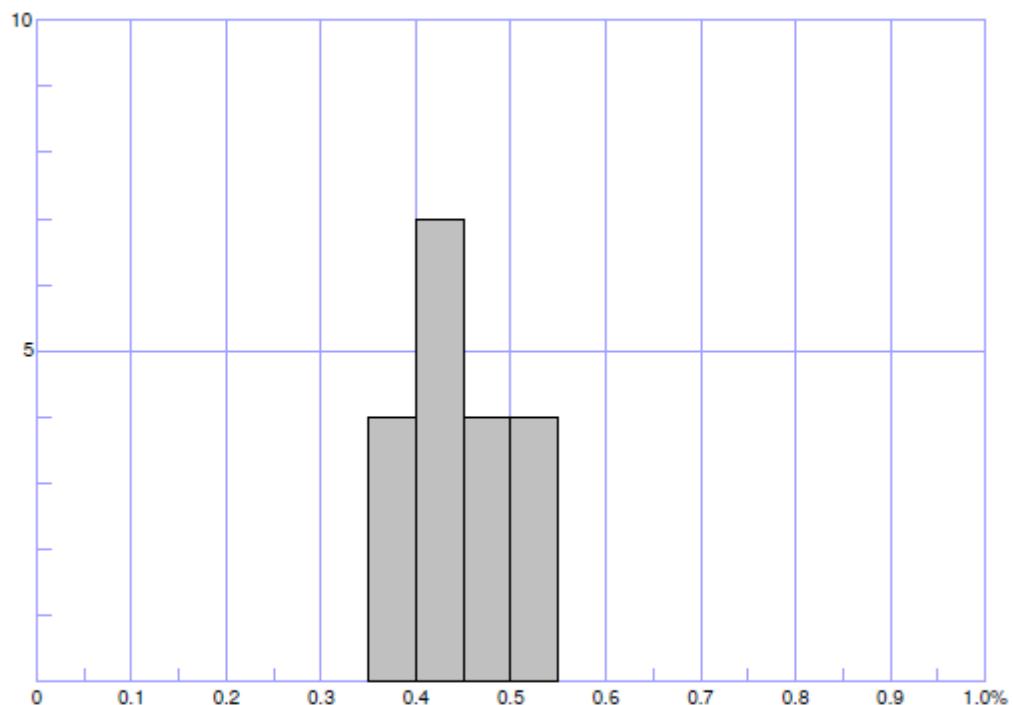
0.30 - 0.35 % R 7
0.35 - 0.40 % R 4
0.40 - 0.45 % R 7

0.45 - 0.50 % R 4
0.50 - 0.55 % R 4

F=3.05268 D=4.80.8520

Sample : 26257

Activity no: 2015010; Standard: 0903%
Locality: Xana-1X; Depth: 9000'
Material: Extracted cuttings



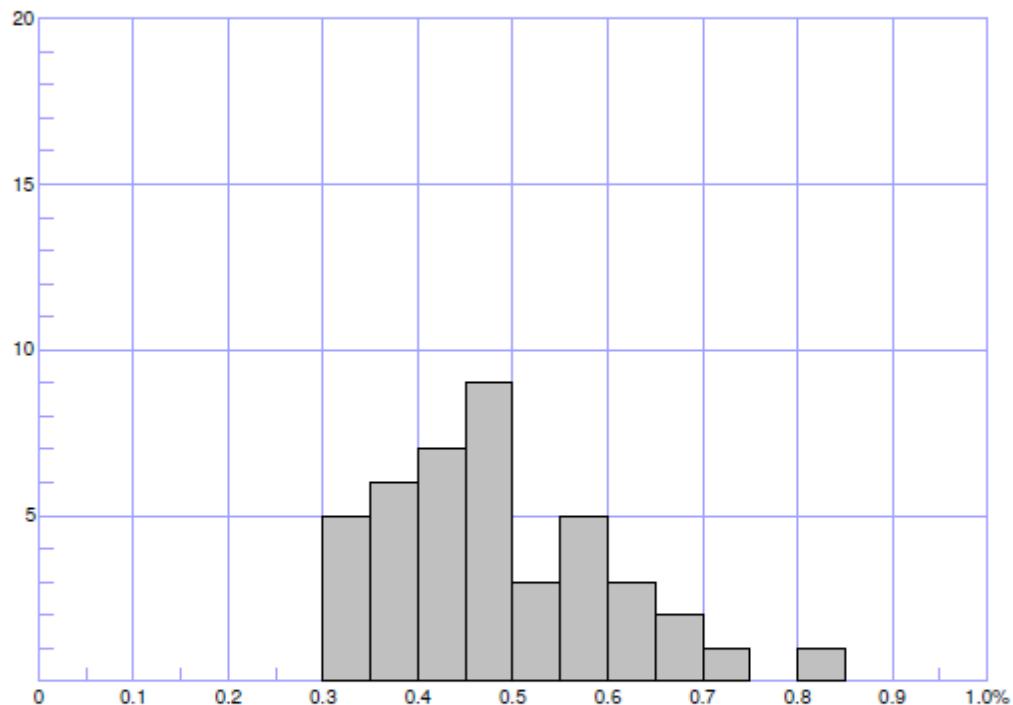
Measure count = 19 Date 7/16/2015 08:34 AM
Reflectance Rr = 0.442 % Operator cgw
s = 0.052 % Printed 9/2/2015

0.35 - 0.40 % R 4 0.45 - 0.50 % R 4
0.40 - 0.45 % R 7 0.50 - 0.55 % R 4

F=3.05268 D=4.80.8520

Sample : 26258

Activity no: 2015010; Standard: 0903%
Locality: Xana-1X; Depth: 10110'
Material: Extracted cuttings



Measure count = 42
Reflectance Rr = 0.489 %
s = 0.116 %

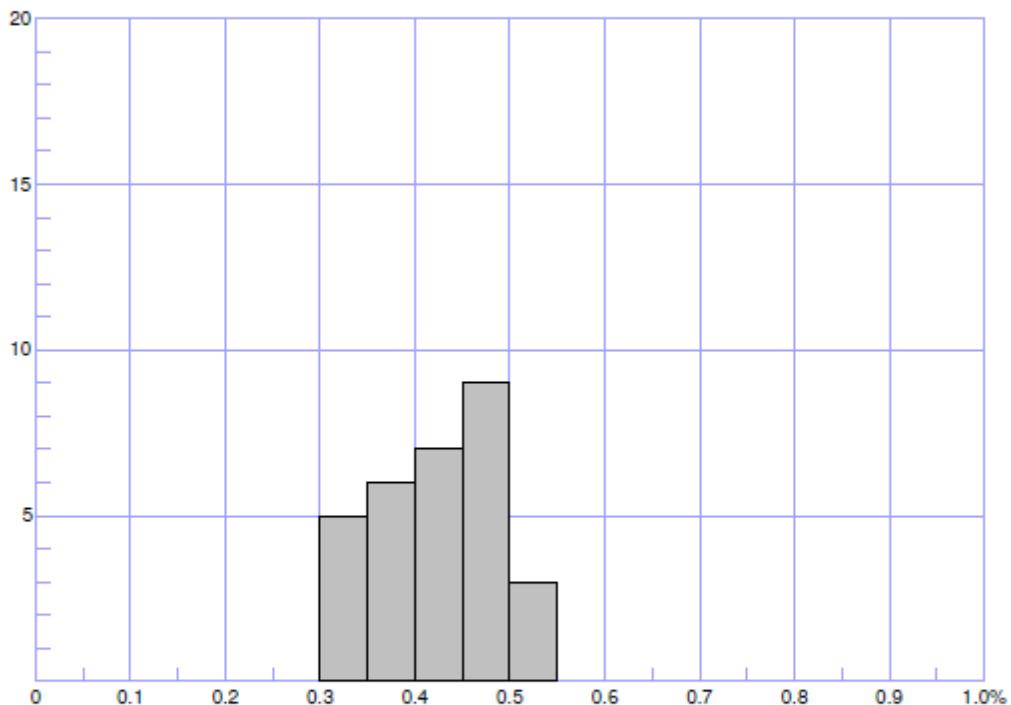
Date 7/16/2015 10:10 AM
Operator cgus
Printed 7/16/2015

0.30 - 0.35 % R	5	0.55 - 0.60 % R	5
0.35 - 0.40 % R	6	0.60 - 0.65 % R	3
0.40 - 0.45 % R	7	0.65 - 0.70 % R	2
0.45 - 0.50 % R	9	0.70 - 0.75 % R	1
0.50 - 0.55 % R	3	0.80 - 0.85 % R	1

F=3.0.5268 D=4.80.8520

Sample : 26258

Activity no: 2015010; Standard: 0903%
Locality: Xana-1X; Depth: 10110'
Material: Extracted cuttings



Measure count = 30
Reflectance Rr = 0.429 %
s = 0.063 %

Date 7/16/2015 10:10 AM
Operator cgu
Printed 7/16/2015

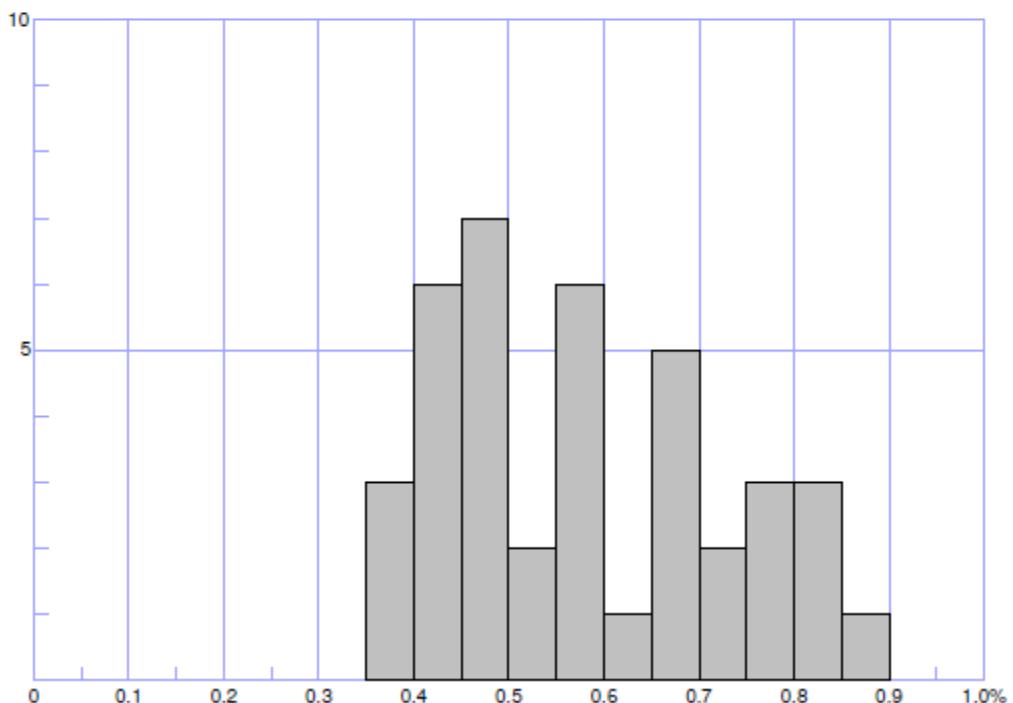
0.30 - 0.35 % R 5
0.35 - 0.40 % R 6
0.40 - 0.45 % R 7

0.45 - 0.50 % R 9
0.50 - 0.55 % R 3

F=3.05268 D=4.80.8520

Sample : 26148

Activity no: 2015010; Standard: 0903%
Locality: Xana-1X; Depth: 14040'
Material: Extracted cuttings



Measure count = 39
Reflectance Rr = 0.581 %
S = 0.145 %

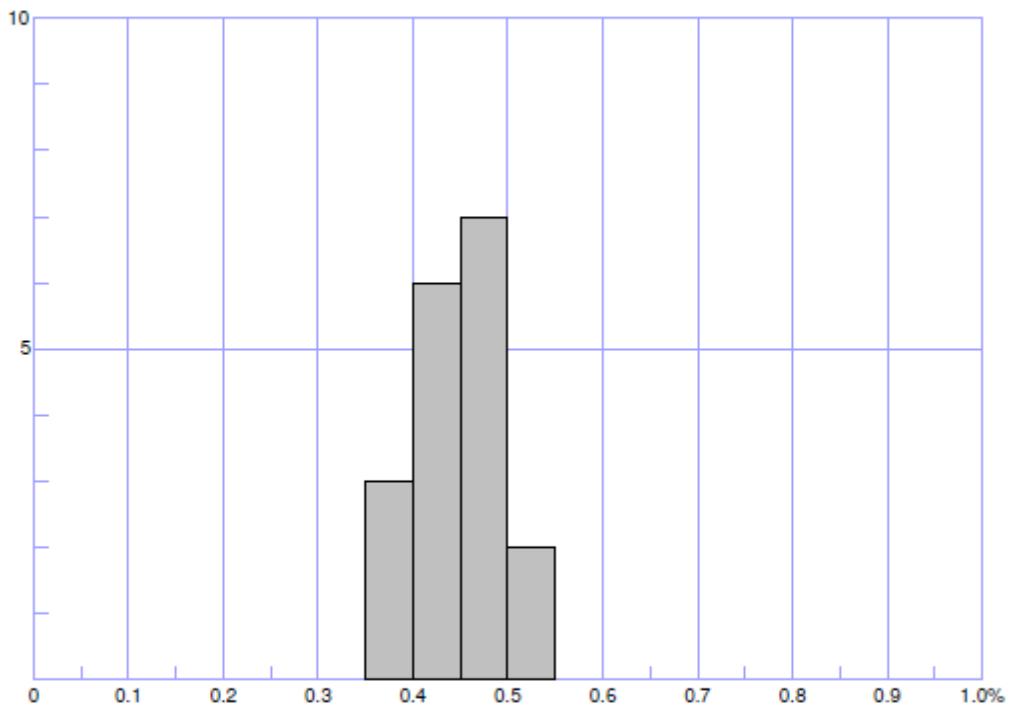
Date 7/16/2015 12:40 PM
Operator cgu
Printed 7/16/2015

0.35 - 0.40 % R	3	0.65 - 0.70 % R	5
0.40 - 0.45 % R	6	0.70 - 0.75 % R	2
0.45 - 0.50 % R	7	0.75 - 0.80 % R	3
0.50 - 0.55 % R	2	0.80 - 0.85 % R	3
0.55 - 0.60 % R	6	0.85 - 0.90 % R	1
0.60 - 0.65 % R	1		

F=3.05268 D=4.808520

Sample : 26148

Activity no: 2015010; Standard: 0903%
Locality: Xana-1X; Depth: 14040'
Material: Extracted cuttings



Measure count = 18
Reflectance Rr = 0.450 %
S = 0.046 %

Date 7/16/2015 12:40 PM
Operator cgu
Printed 7/16/2015

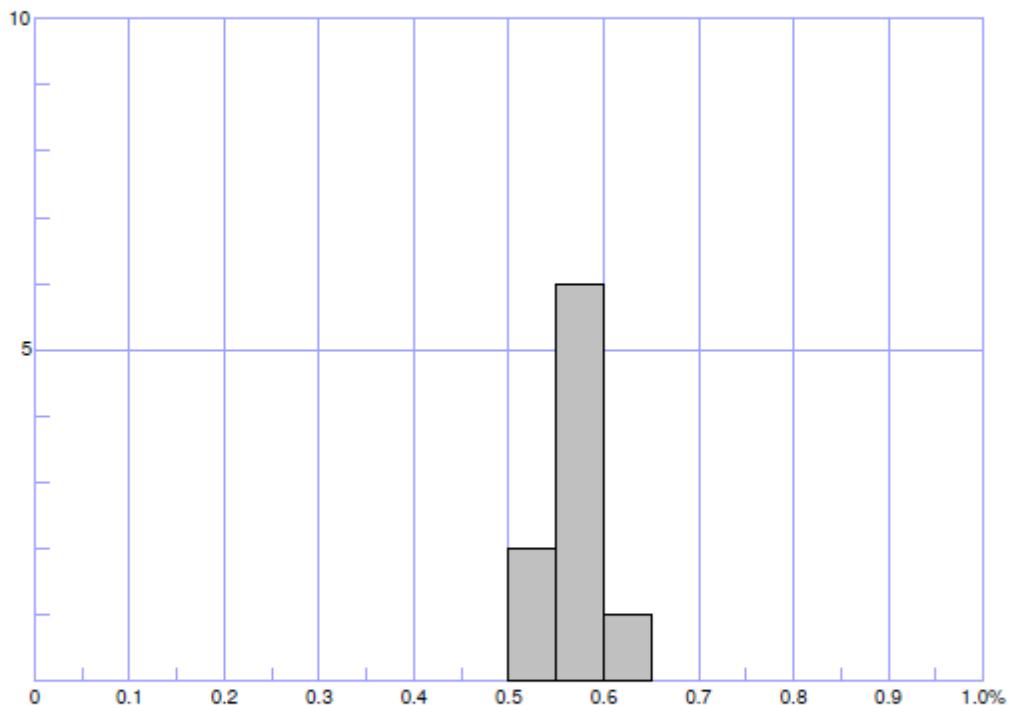
0.35 - 0.40 % R 3
0.40 - 0.45 % R 6

0.45 - 0.50 % R 7
0.50 - 0.55 % R 2

F=3.05268 D=4.80.8520

Sample : 26148

Activity no: 2015010; Standard: 0903%
Locality: Xana-1X; Depth: 14040'
Material: Extracted cuttings



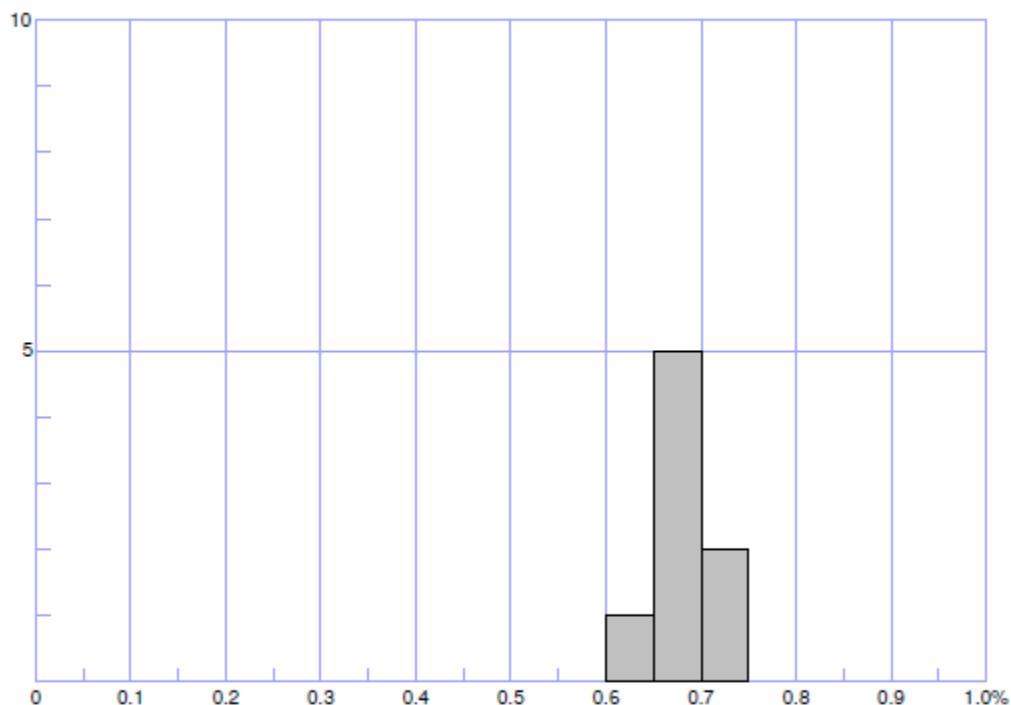
Measure count = 9 Date 7/16/2015 12:40 PM
Reflectance Rr = 0.569 % Operator cgu
s = 0.027 % Printed 9/2/2015

0.50 - 0.55 % R 2 0.60 - 0.65 % R 1
0.55 - 0.60 % R 6

F=3.0.5268 D=4.80.8520

Sample : 26148

Activity no: 2015010; Standard: 0903%
Locality: Xana-1X; Depth: 14040'
Material: Extracted cuttings



Measure count = 8
Reflectance Rr = 0.683 %
 $s = 0.038 \%$

Date 7/16/2015 12:40 PM
Operator cgul
Printed 9/2/2015

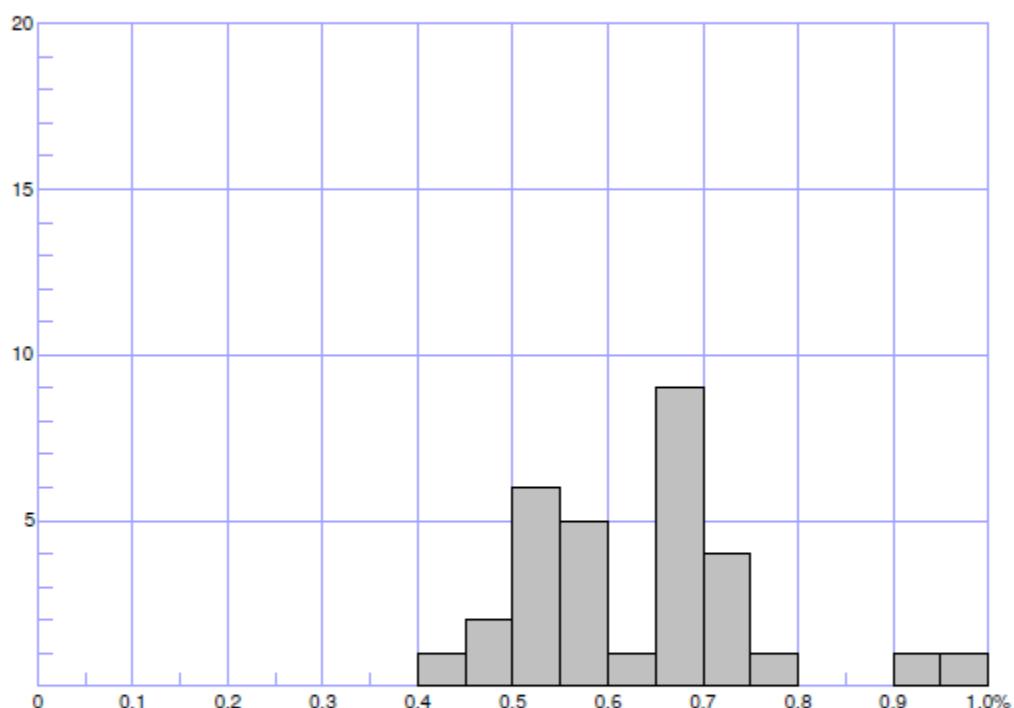
0.60 - 0.65 % R 1
0.65 - 0.70 % R 5

0.70 - 0.75 % R 2

F=3.05268 D=4.808520

Sample : 26157

Activity no: 2015010; Standard: 0903%
Locality: Xana-1X; Depth: 14286'
Material: Extracted cuttings



Measure count = 31
Reflectance Rr = 0.634 %
s = 0.125 %

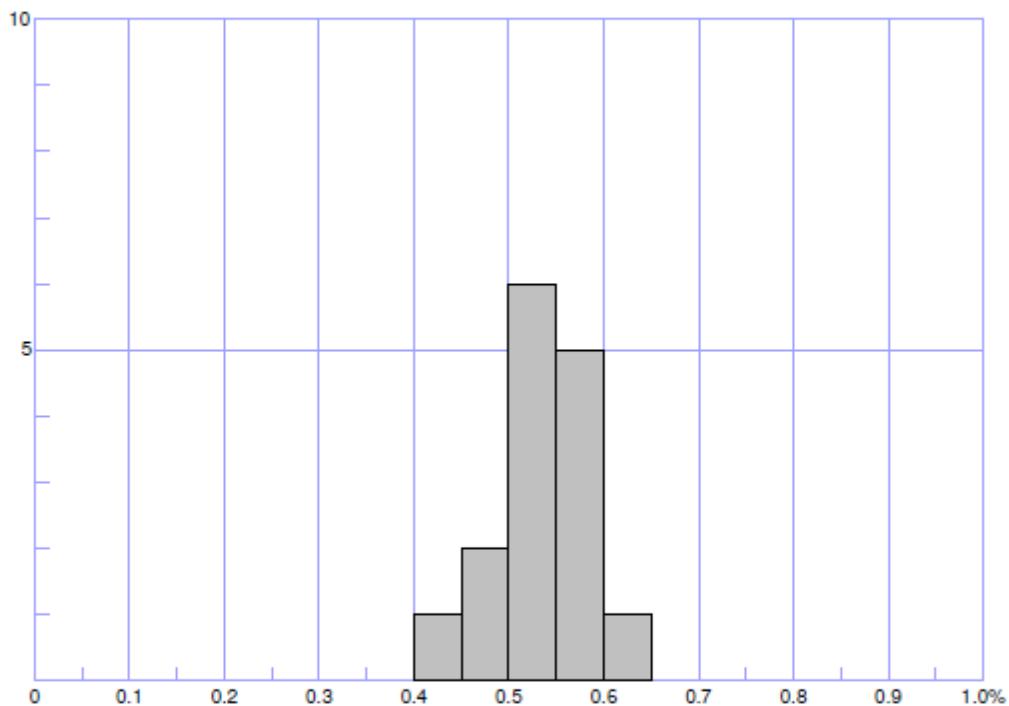
Date 7/16/2015 02:04 PM
Operator cgu
Printed 7/16/2015

0.40 - 0.45 % R	1	0.65 - 0.70 % R	9
0.45 - 0.50 % R	2	0.70 - 0.75 % R	4
0.50 - 0.55 % R	6	0.75 - 0.80 % R	1
0.55 - 0.60 % R	5	0.90 - 0.95 % R	1
0.60 - 0.65 % R	1	0.95 - 1.00 % R	1

F=3.05268 D=4.808520

Sample : 26157

Activity no: 2015010; Standard: 0903%
Locality: Xana-1X; Depth: 14286'
Material: Extracted cuttings



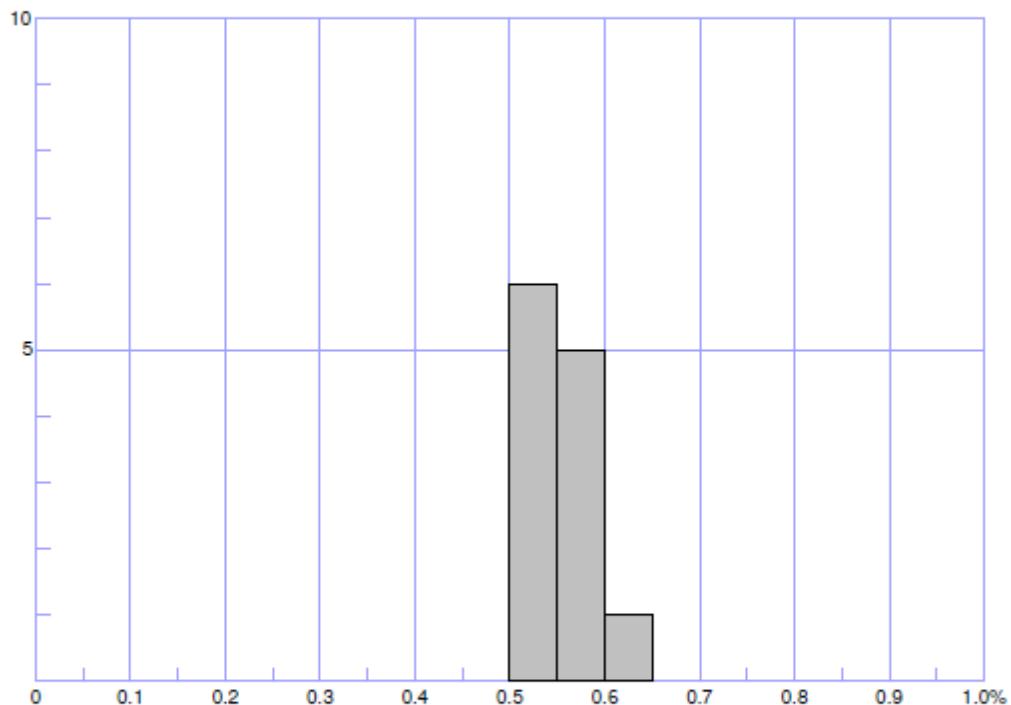
Measure count = 15 Date 7/16/2015 02:04 PM
Reflectance Rr = 0.530 % Operator cgu
s = 0.056 % Printed 7/16/2015

Reflectance Range (Rr %)	Count
0.40 - 0.45 % R	1
0.45 - 0.50 % R	2
0.50 - 0.55 % R	6
0.55 - 0.60 % R	7
0.60 - 0.65 % R	1

F=3.0.5268 D=4.80.8520

Sample : 26157

Activity no: 2015010; Standard: 0903%
Locality: Xana-1X; Depth: 14286'
Material: Extracted cuttings



Measure count = 12
Reflectance Rr = 0.550 %
 $s = 0.044 \%$

Date 7/16/2015 02:04 PM
Operator cgu
Printed 9/2/2015

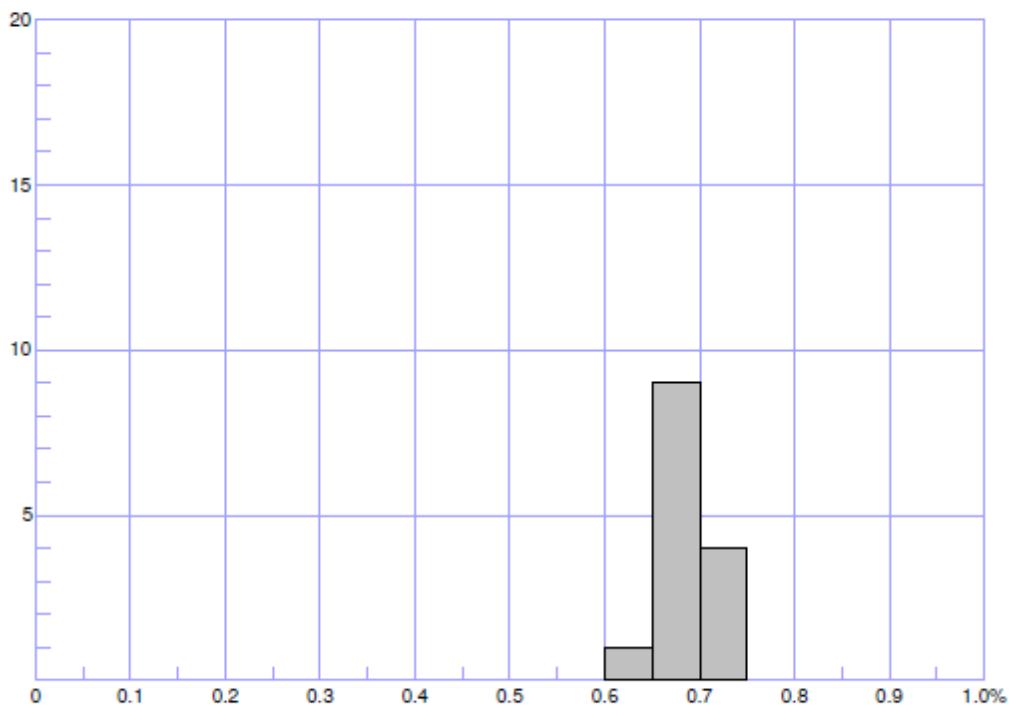
0.50 - 0.55 % R 6
0.55 - 0.60 % R 5

0.60 - 0.65 % R 1

F=3.05268 D=4.80.8520

Sample : 26157

Activity no: 2015010; Standard: 0903%
Locality: Xana-1X; Depth: 14286'
Material: Extracted cuttings



Measure count = 14
Reflectance Rr = 0.690 %
s = 0.029 %

Date 7/16/2015 02:04 PM
Operator cgu
Printed 9/2/2015

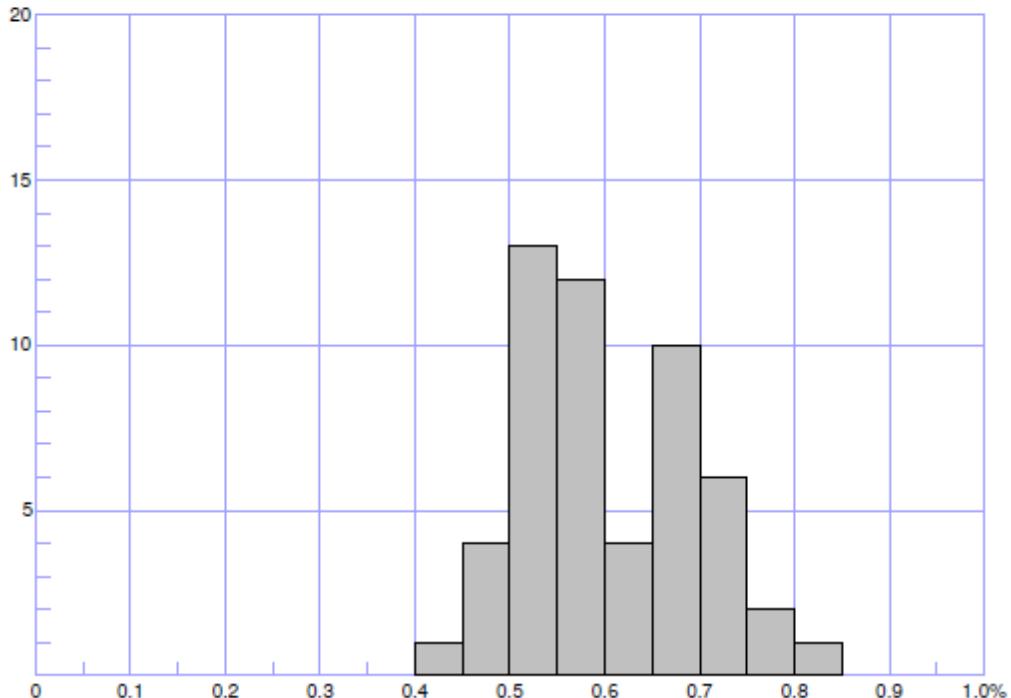
0.60 - 0.65 % R 1
0.65 - 0.70 % R 9

0.70 - 0.75 % R 4

F=3.05288 D=4.80.8520

Sample : 26173

Activity no: 2015010; Standard: 0903%
Locality: Xana-1X; Depth: 14780'
Material: Extracted cuttings



Measure count = 53
Reflectance Rr = 0.605 %
s = 0.090 %

Date 7/17/2015 08:41 AM
Operator cgu
Printed 7/17/2015

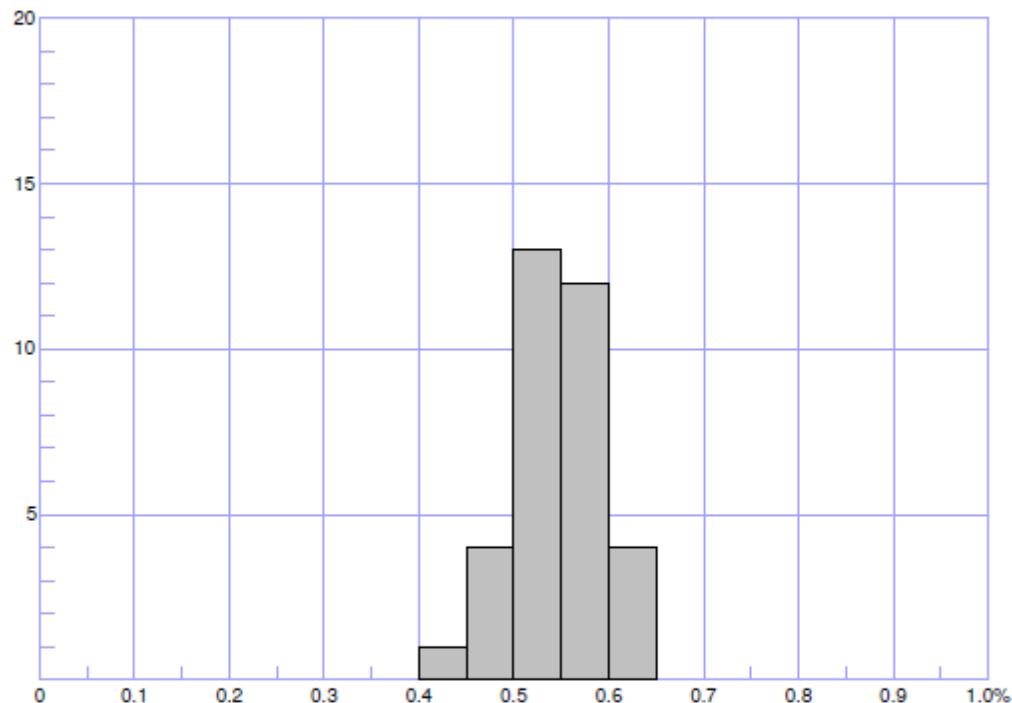
0.40 - 0.45 % R 1
0.45 - 0.50 % R 4
0.50 - 0.55 % R 13
0.55 - 0.60 % R 12
0.60 - 0.65 % R 4

0.65 - 0.70 % R 10
0.70 - 0.75 % R 6
0.75 - 0.80 % R 2
0.80 - 0.85 % R 1

F=3.0.5268 D=4.80.8520

Sample : 26173

Activity no: 2015010; Standard: 0903%
Locality: Xana-1X; Depth: 14780'
Material: Extracted cuttings



Measure count = 34
Reflectance Rr = 0.549 %
S = 0.051 %

Date 7/17/2015 08:41 AM
Operator cgu
Printed 7/17/2015

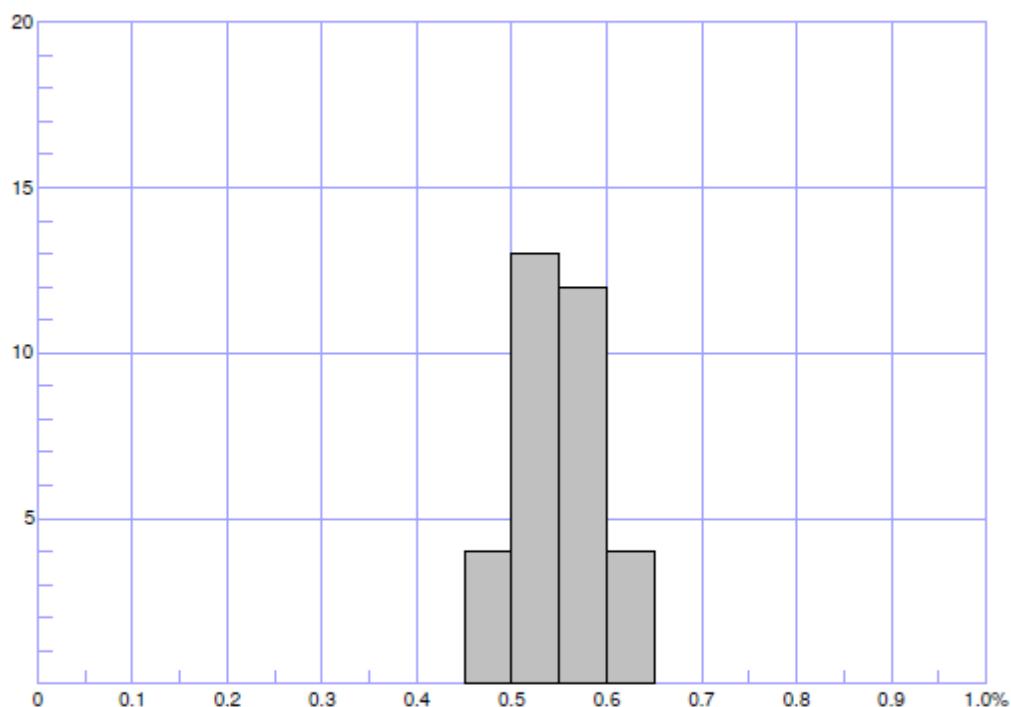
0.40 - 0.45 % R 1
0.45 - 0.50 % R 4
0.50 - 0.55 % R 13

0.55 - 0.60 % R 12
0.60 - 0.65 % R 4

F=3.05268 D=4.80.8520

Sample : 26173

Activity no: 2015010; Standard: 0903%
Locality: Xana-1X; Depth: 14780'
Material: Extracted cuttings



Measure count = 33
Reflectance Rr = 0.552 %
s = 0.049 %

Date 7/17/2015 08:41 AM
Operator cgu
Printed 9/2/2015

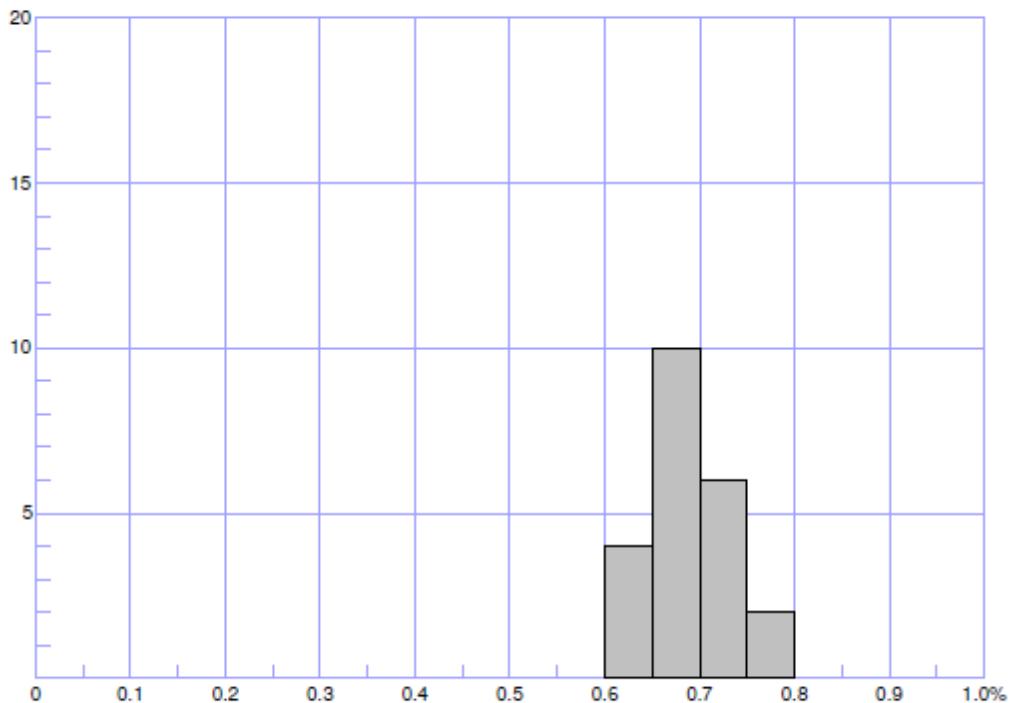
0.45 - 0.50 % R 4
0.50 - 0.55 % R 13

0.55 - 0.60 % R 12
0.60 - 0.65 % R 4

F=3.05268 D=4.80.8520

Sample : 26173

Activity no: 2015010; Standard: 0903%
Locality: Xana-1X; Depth: 14780'
Material: Extracted cuttings



Measure count = 22
Reflectance Rr = 0.687 %
s = 0.047 %

Date 7/17/2015 08:41 AM
Operator cgú
Printed 9/2/2015

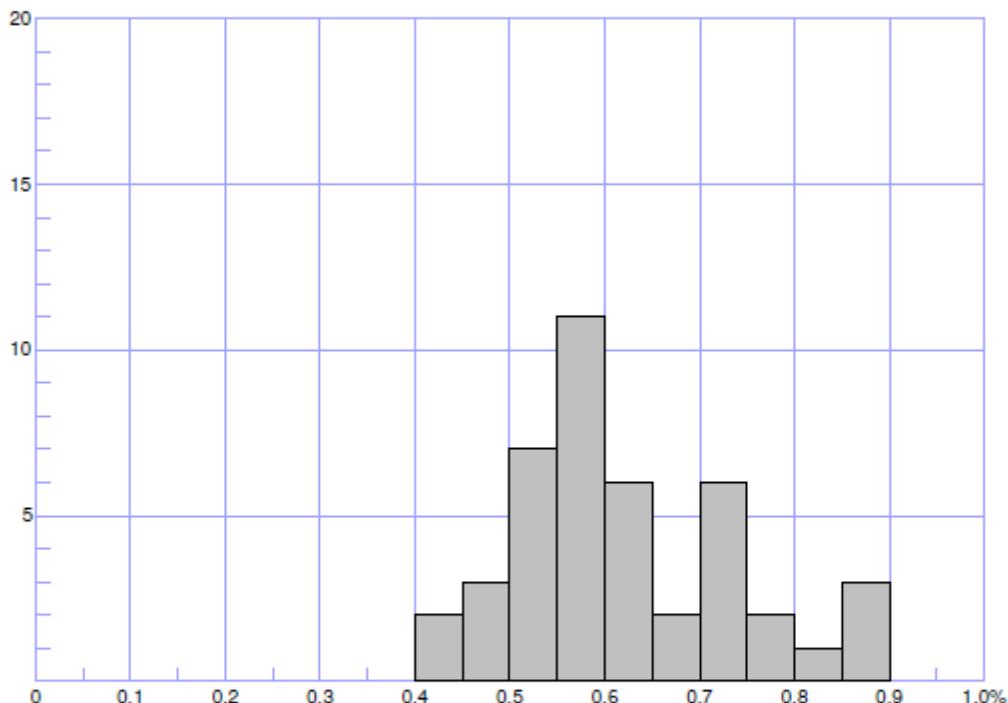
0.60 - 0.65 % R 4
0.65 - 0.70 % R 10

0.70 - 0.75 % R 6
0.75 - 0.80 % R 2

F=3.05268 D=4.808520

Sample : 26192

Activity no: 2015010; Standard: 0903%
Locality: Xana-1X; Depth: 15560'
Material: Extracted cuttings



Measure count = 43
Reflectance Rr = 0.618 %
s = 0.114 %

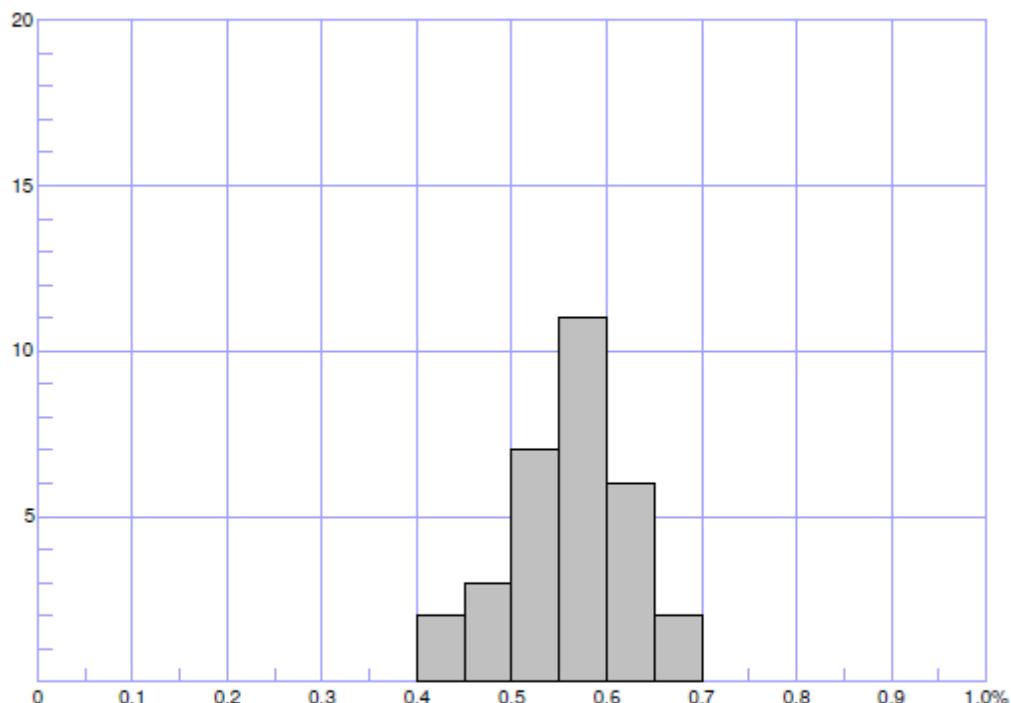
Date 7/17/2015 10:06 AM
Operator cgú
Printed 7/17/2015

0.40 - 0.45 % R	2	0.65 - 0.70 % R	2
0.45 - 0.50 % R	3	0.70 - 0.75 % R	6
0.50 - 0.55 % R	7	0.75 - 0.80 % R	2
0.55 - 0.60 % R	11	0.80 - 0.85 % R	1
0.60 - 0.65 % R	6	0.85 - 0.90 % R	3

F=3.0.5268 D=4.80.8520

Sample : 26192

Activity no: 2015010; Standard: 0903%
Locality: Xana-1X; Depth: 15560'
Material: Extracted cuttings



Measure count = 31
Reflectance Rr = 0.559 %
S = 0.061 %

Date 7/17/2015 10:06 AM
Operator cgu
Printed 7/17/2015

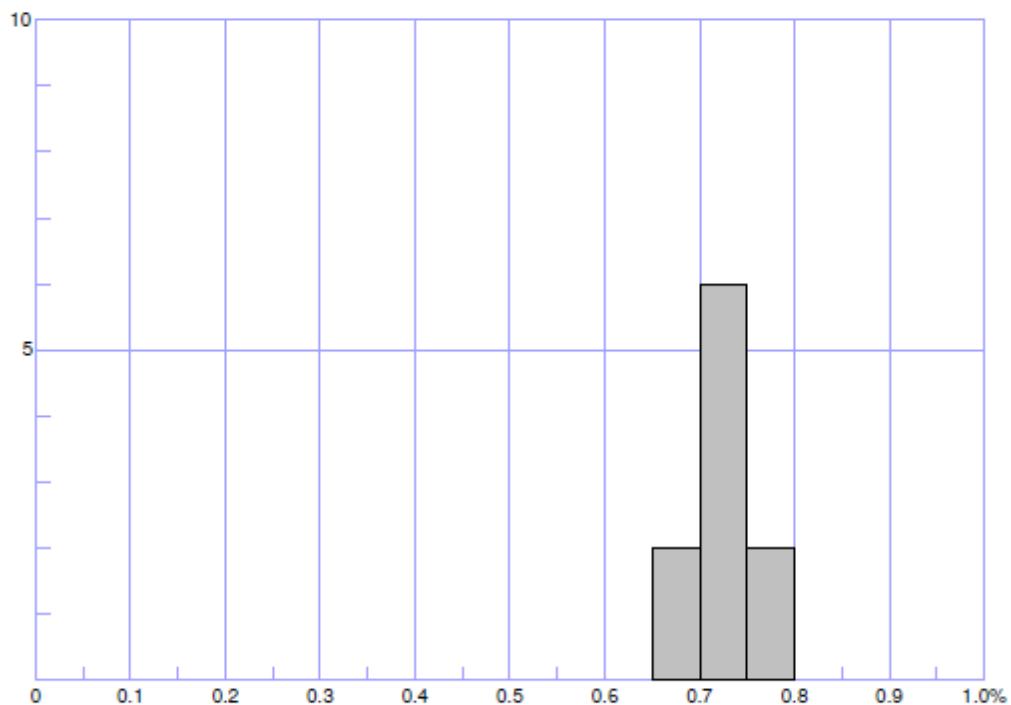
0.40 - 0.45 % R 2
0.45 - 0.50 % R 3
0.50 - 0.55 % R 7

0.55 - 0.60 % R 11
0.60 - 0.65 % R 6
0.65 - 0.70 % R 2

F=3.0.5268 D=4.80.8620

Sample : 26192

Activity no: 2015010; Standard: 0903%
Locality: Xana-1X; Depth: 15560'
Material: Extracted cuttings



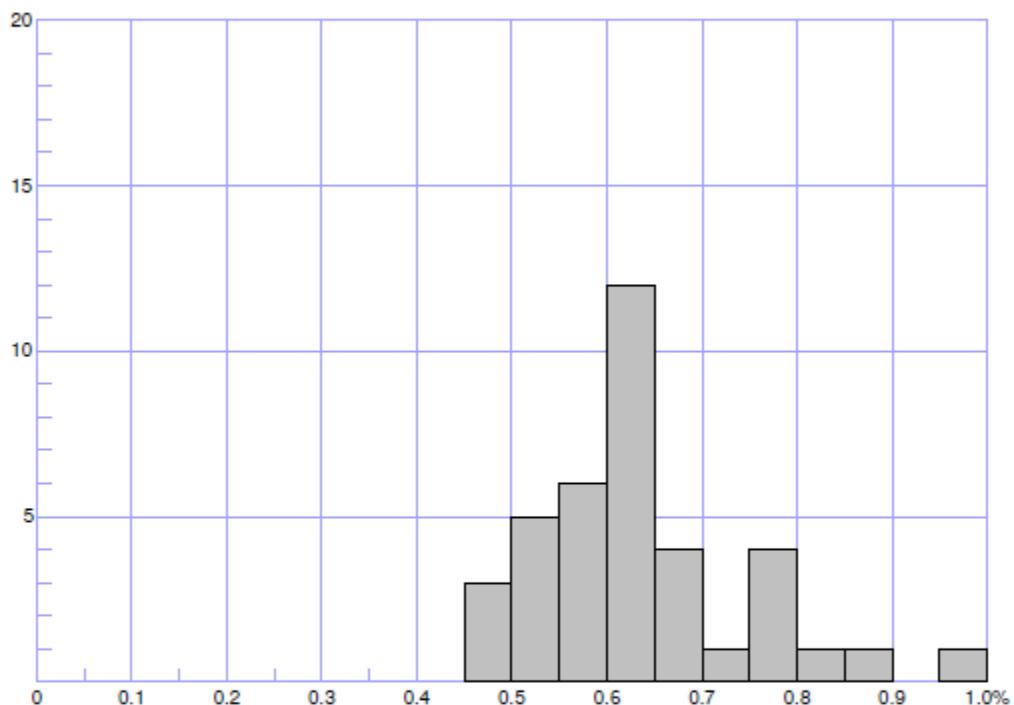
Measure count = 10 Date 7/17/2015 10:06 AM
Reflectance Rr = 0.717 % Operator cgu
s = 0.036 % Printed 9/2/2015

0.65 - 0.70 % R 2 0.75 - 0.80 % R 2
0.70 - 0.75 % R 6

F=3.0.5268 D=4.80.8520

Sample : 26195

Activity no: 2015010; Standard: 0903%
Locality: Xana-1X; Depth: 15700'
Material: Extracted cuttings



Measure count = 38
Reflectance Rr = 0.633 %
s = 0.109 %

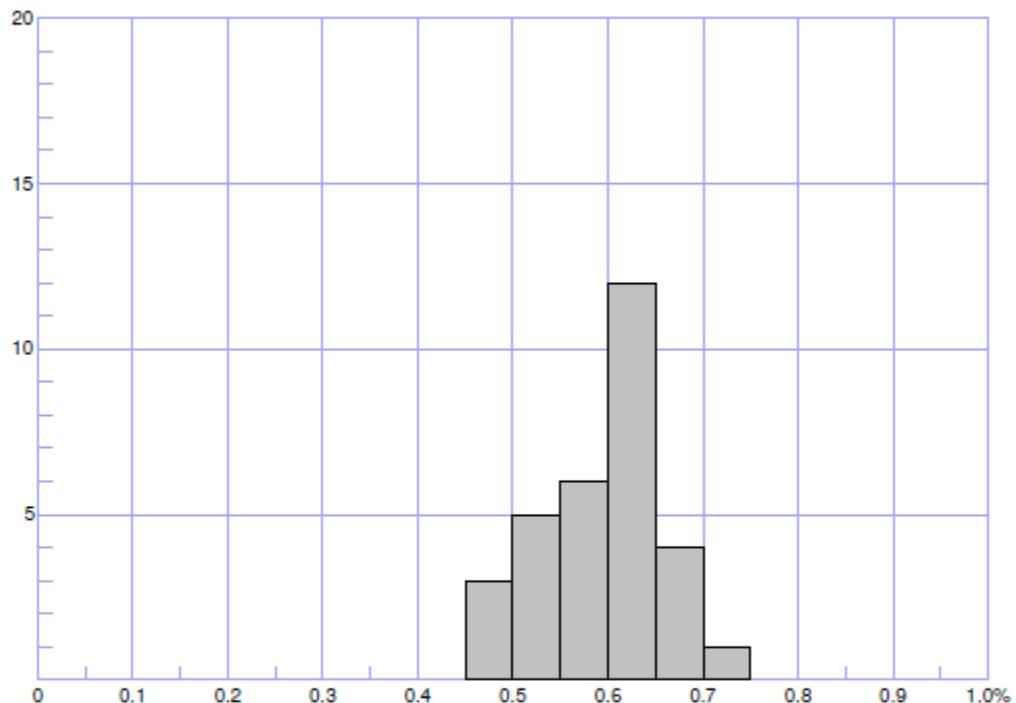
Date 7/17/2015 01:24 PM
Operator cgu
Printed 7/17/2015

0.45 - 0.50 % R	3	0.70 - 0.75 % R	1
0.50 - 0.55 % R	5	0.75 - 0.80 % R	4
0.55 - 0.60 % R	6	0.80 - 0.85 % R	1
0.60 - 0.65 % R	12	0.85 - 0.90 % R	1
0.65 - 0.70 % R	4	0.95 - 1.00 % R	1

F=3.05268 D=4.808520

Sample : 26195

Activity no: 2015010; Standard: 0903%
Locality: Xana-1X; Depth: 15700'
Material: Extracted cuttings



Measure count = 31
Reflectance Rr = 0.590 %
s = 0.062 %

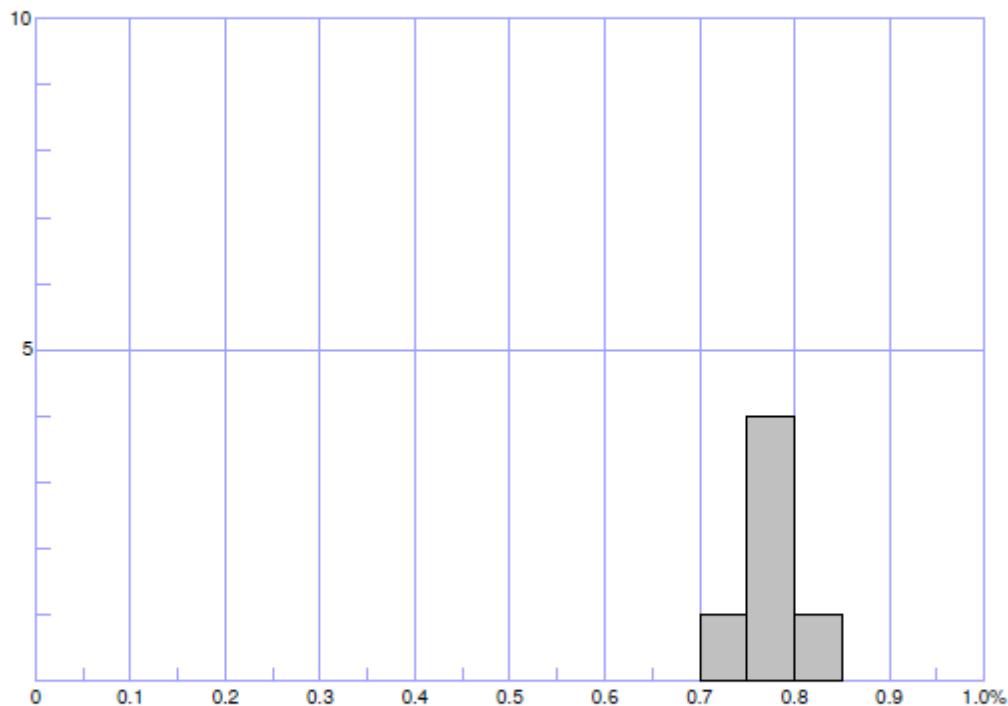
Date 7/17/2015 01:24 PM
Operator cgw
Printed 7/17/2015

Reflectance Range (%)	Count	Reflectance Range (%)	Count
0.45 - 0.50 % R	3	0.60 - 0.65 % R	12
0.50 - 0.55 % R	5	0.65 - 0.70 % R	4
0.55 - 0.60 % R	6	0.70 - 0.75 % R	1

F=3.0.5268 D=4.80.8520

Sample : 26195

Activity no: 2015010; Standard: 0903%
Locality: Xana-1X; Depth: 15700'
Material: Extracted cuttings



Measure count = 6
Reflectance Rr = 0.772 %
 $s = 0.021 \%$

Date 7/17/2015 01:24 PM
Operator cgu
Printed 9/2/2015

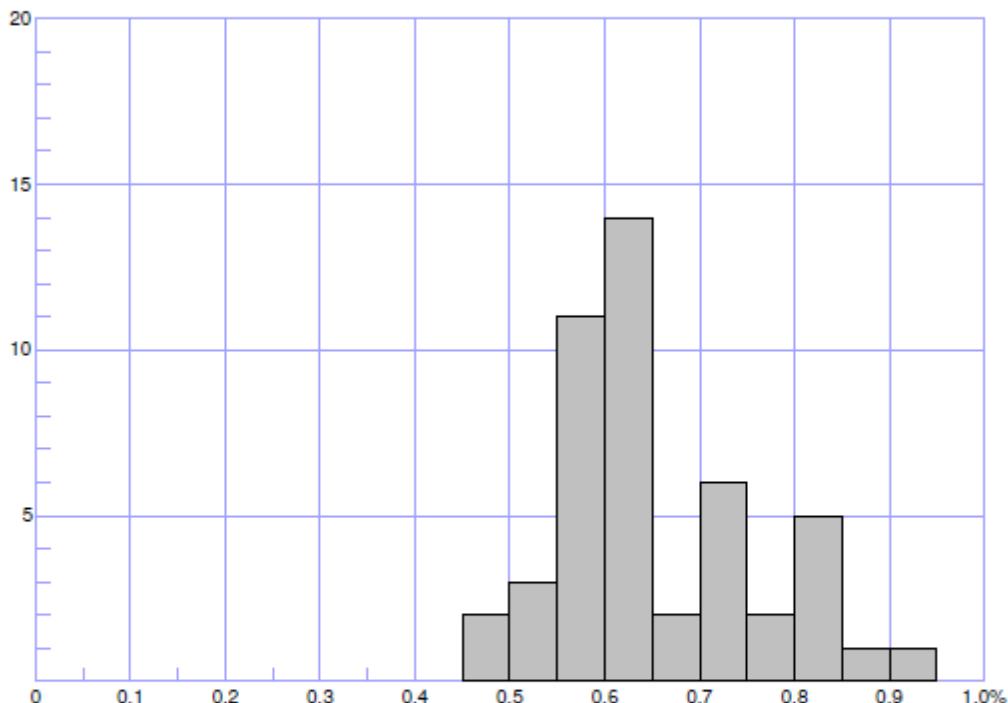
0.70 - 0.75 % R 1
0.75 - 0.80 % R 4

0.80 - 0.85 % R 1

F=3.05268 D=4.80.8520

Sample : 26206

Activity no: 2015010; Standard: 0903%
Locality: Xana-1X; Depth: 16240'
Material: Extracted cuttings



Measure count = 47
Reflectance Rr = 0.655 %
S = 0.104 %

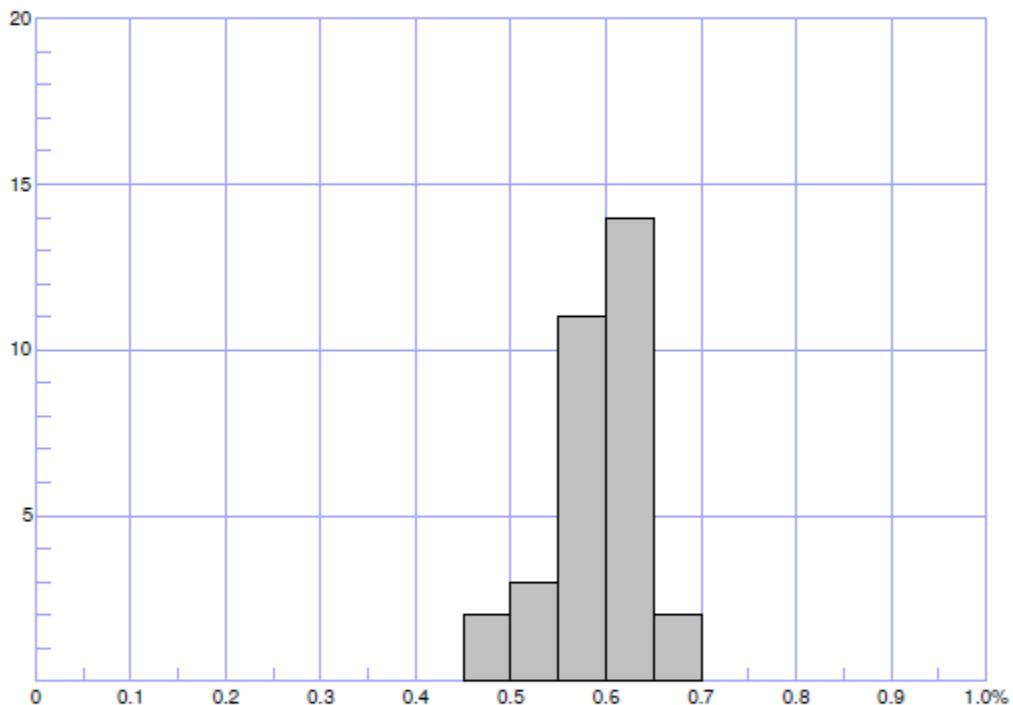
Date 7/20/2015 10:05 AM
Operator cgu
Printed 7/20/2015

0.45 - 0.50 % R	2	0.70 - 0.75 % R	6
0.50 - 0.55 % R	3	0.75 - 0.80 % R	2
0.55 - 0.60 % R	11	0.80 - 0.85 % R	5
0.60 - 0.65 % R	14	0.85 - 0.90 % R	1
0.65 - 0.70 % R	2	0.90 - 0.95 % R	1

F=3.0.5268 D=4.80.8520

Sample : 26206

Activity no: 2015010; Standard: 0903%
Locality: Xana-1X; Depth: 16240'
Material: Extracted cuttings



Measure count = 32
Reflectance Rr = 0.594 %
S = 0.047 %

Date 7/20/2015 10:05 AM
Operator cgu
Printed 7/20/2015

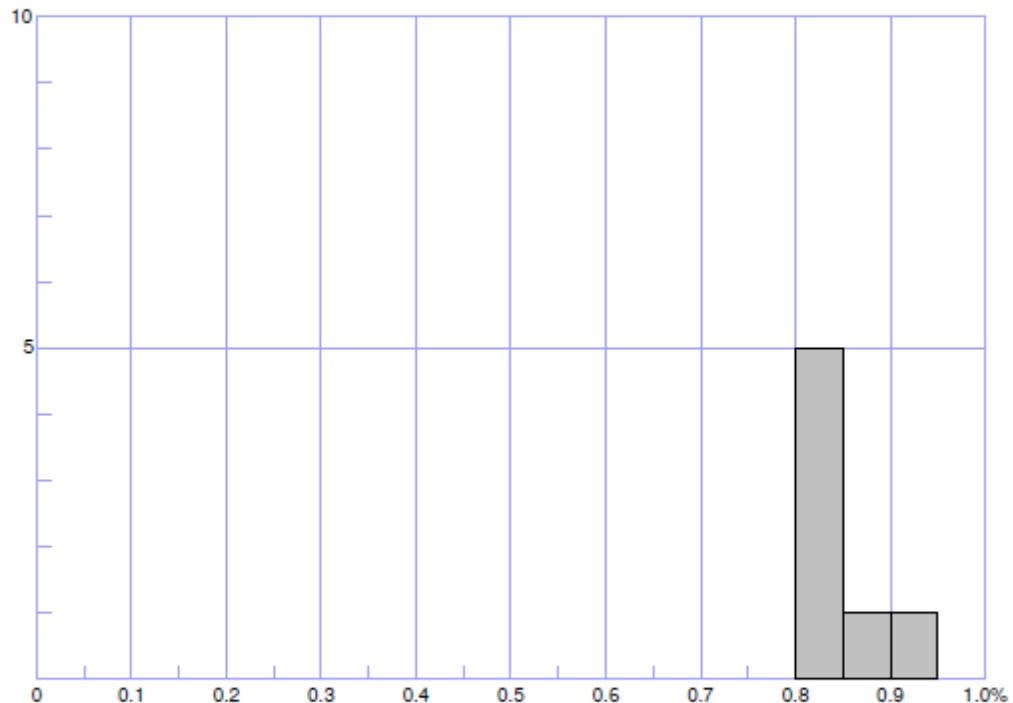
0.45 - 0.50 % R 2
0.50 - 0.55 % R 3
0.55 - 0.60 % R 11

0.60 - 0.65 % R 14
0.65 - 0.70 % R 2

F=3.05268 D=4.80.8520

Sample : 26206

Activity no: 2015010; Standard: 0903%
Locality: Xana-1X; Depth: 16240'
Material: Extracted cuttings



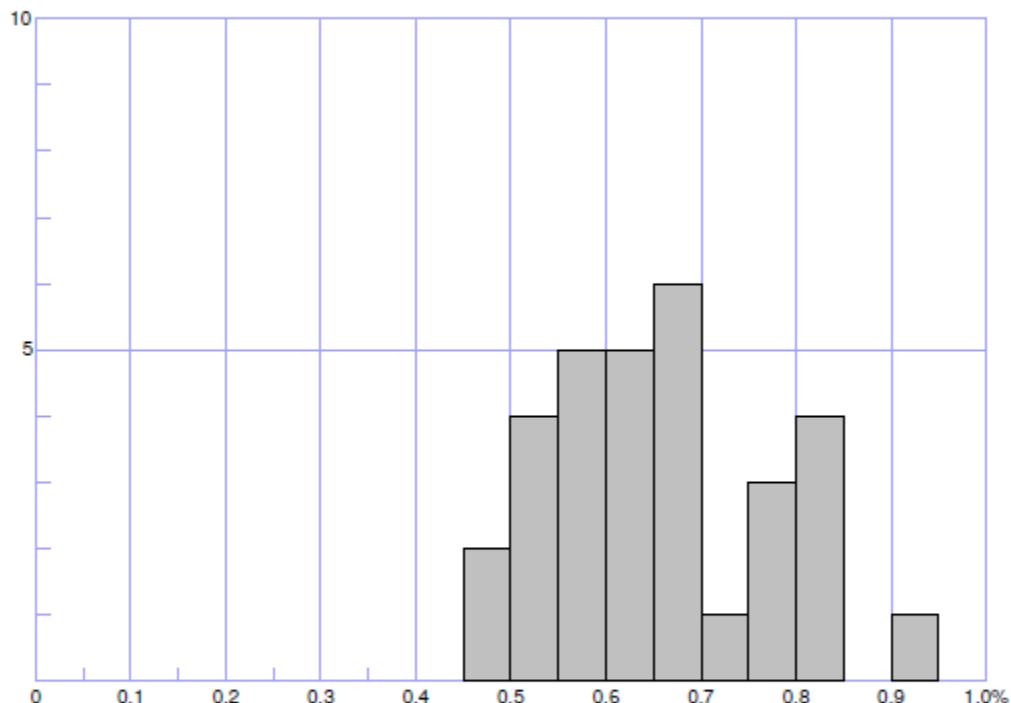
Measure count = 7 Date 7/20/2015 10:05 AM
Reflectance Rr = 0.847 % Operator cgu
s = 0.039 % Printed 9/2/2015

0.80 - 0.85 % R 5 0.90 - 0.95 % R 1
0.85 - 0.90 % R 1

F=3.0.5268 D=4.80.8520

Sample : 26259

Activity no: 2015010; Standard: 0903%
Locality: Xana-1X; Depth: 16310'
Material: Extracted cuttings



Measure count = 31
Reflectance Rr = 0.657 %
s = 0.113 %

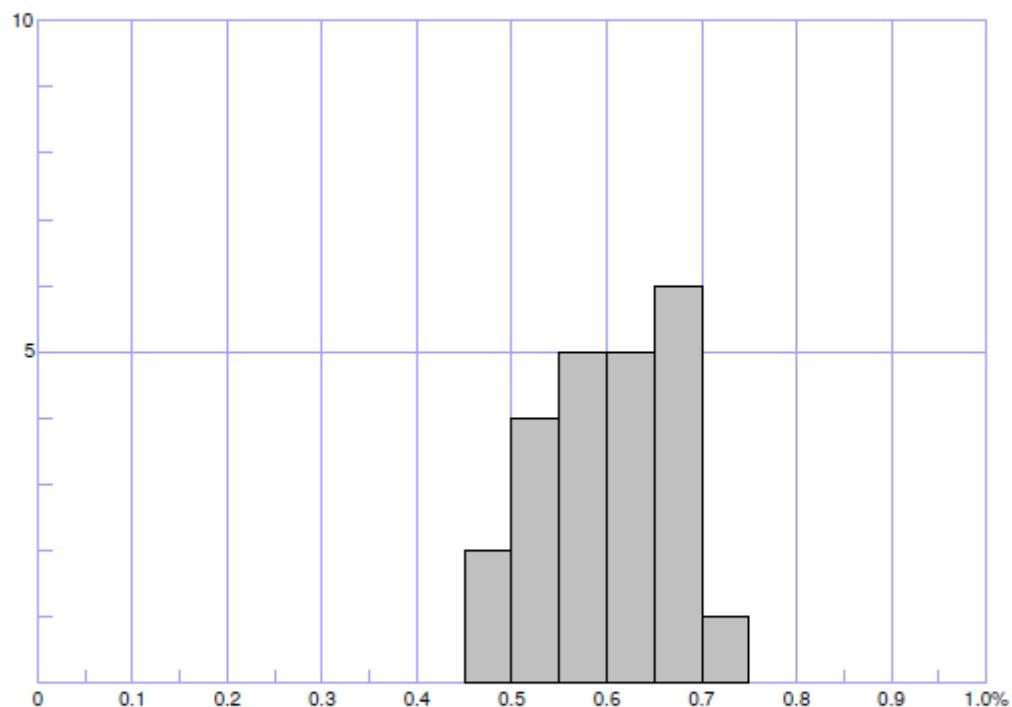
Date 7/20/2015 01:47 PM
Operator cgu
Printed 7/20/2015

0.45 - 0.50 % R	2	0.70 - 0.75 % R	1
0.50 - 0.55 % R	4	0.75 - 0.80 % R	3
0.55 - 0.60 % R	5	0.80 - 0.85 % R	4
0.60 - 0.65 % R	5	0.90 - 0.95 % R	1
0.65 - 0.70 % R	6		

F=3.0.5268 D=4.80.8520

Sample : 26259

Activity no: 2015010; Standard: 0903%
Locality: Xana-1X; Depth: 16310'
Material: Extracted cuttings



Measure count = 23
Reflectance Rr = 0.602 %
 $s = 0.066 \%$

Date 7/20/2015 01:47 PM
Operator cgw
Printed 7/20/2015

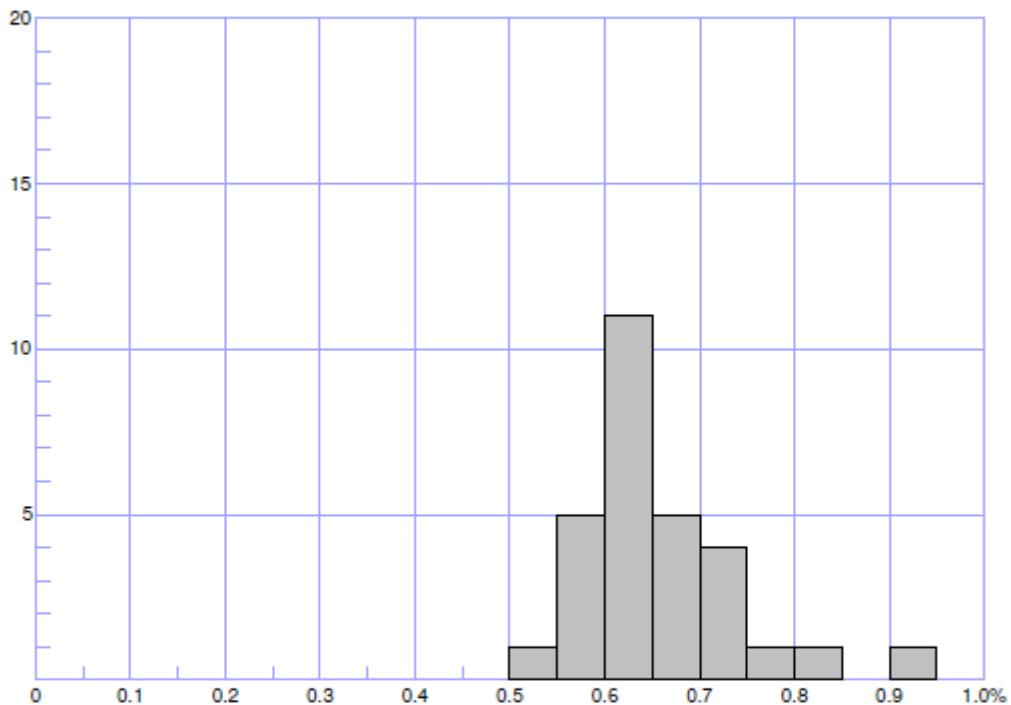
0.45 - 0.50 % R 2
0.50 - 0.55 % R 4
0.55 - 0.60 % R 5

0.60 - 0.65 % R 5
0.65 - 0.70 % R 6
0.70 - 0.75 % R 1

F=3.05268 D=4.80.8520

Sample : 26221

Activity no: 2015010; Standard: 0903%
Locality: Xana-1X; Depth: 16610'
Material: Extracted cuttings



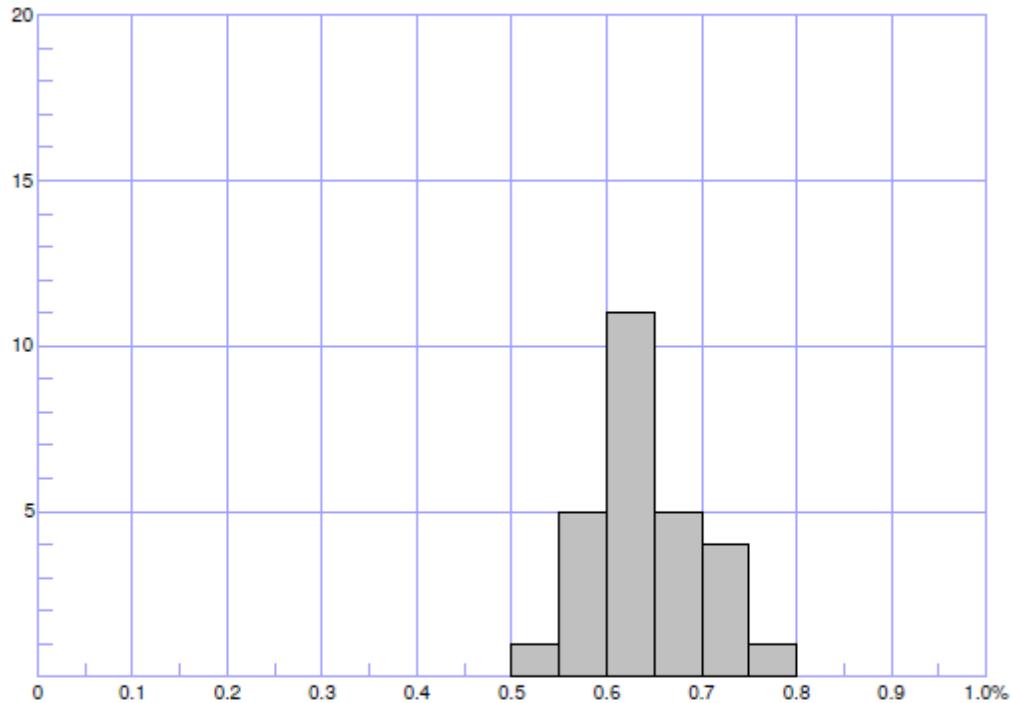
Measure count = 29 Date 7/20/2015 03:23 PM
Reflectance Rr = 0.657 % Operator cgu
s = 0.078 % Printed 7/20/2015

Reflectance Range (%)	Count	Reflectance Range (%)	Count
0.50 - 0.55 % R	1	0.70 - 0.75 % R	4
0.55 - 0.60 % R	5	0.75 - 0.80 % R	1
0.60 - 0.65 % R	11	0.80 - 0.85 % R	1
0.65 - 0.70 % R	5	0.90 - 0.95 % R	1

F=3.05268 D=4.80.8520

Sample : 26221

Activity no: 2015010; Standard: 0903%
Locality: Xana-1X; Depth: 16610'
Material: Extracted cuttings



Measure count = 27
Reflectance Rr = 0.642 %
s = 0.055 %

Date 7/20/2015 03:23 PM
Operator cgu
Printed 7/20/2015

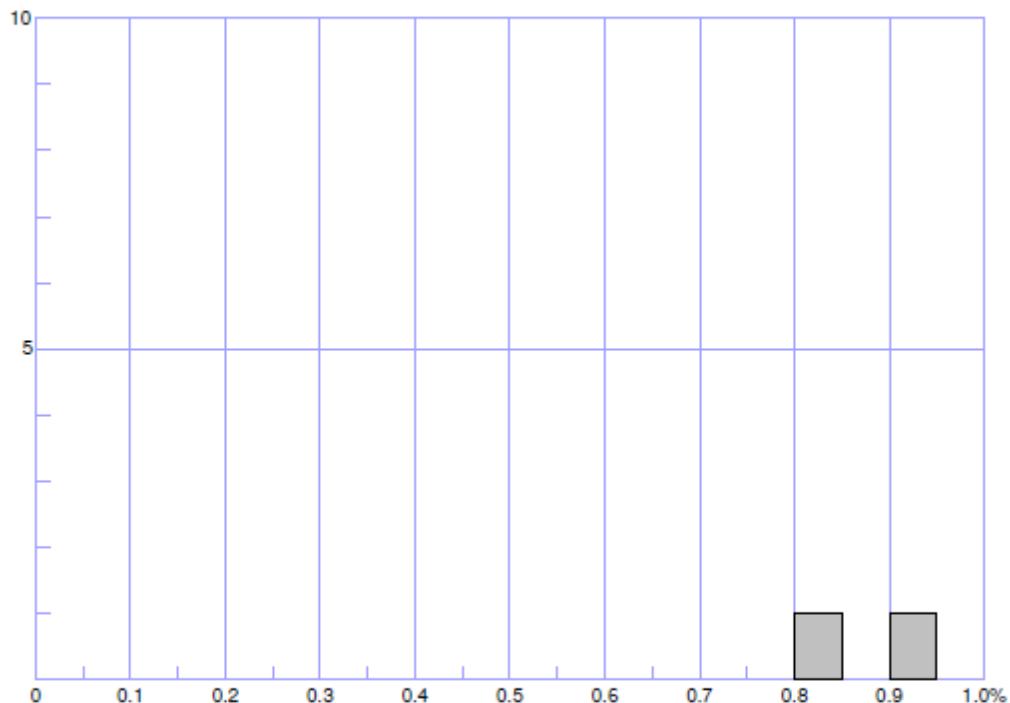
0.50 - 0.55 % R 1
0.55 - 0.60 % R 5
0.60 - 0.65 % R 11

0.65 - 0.70 % R 5
0.70 - 0.75 % R 4
0.75 - 0.80 % R 1

F=3.05268 D=4.80.8520

Sample : 26221

Activity no: 2015010; Standard: 0903%
Locality: Xana-1X; Depth: 16610'
Material: Extracted cuttings



Measure count = 2
Reflectance Rr = 0.860 %
s = 0.045 %

Date 7/20/2015 03:23 PM
Operator cgw
Printed 9/2/2015

0.80 - 0.85 % R 1

0.90 - 0.95 % R 1

F=3.0.5268 D=4.80.8520