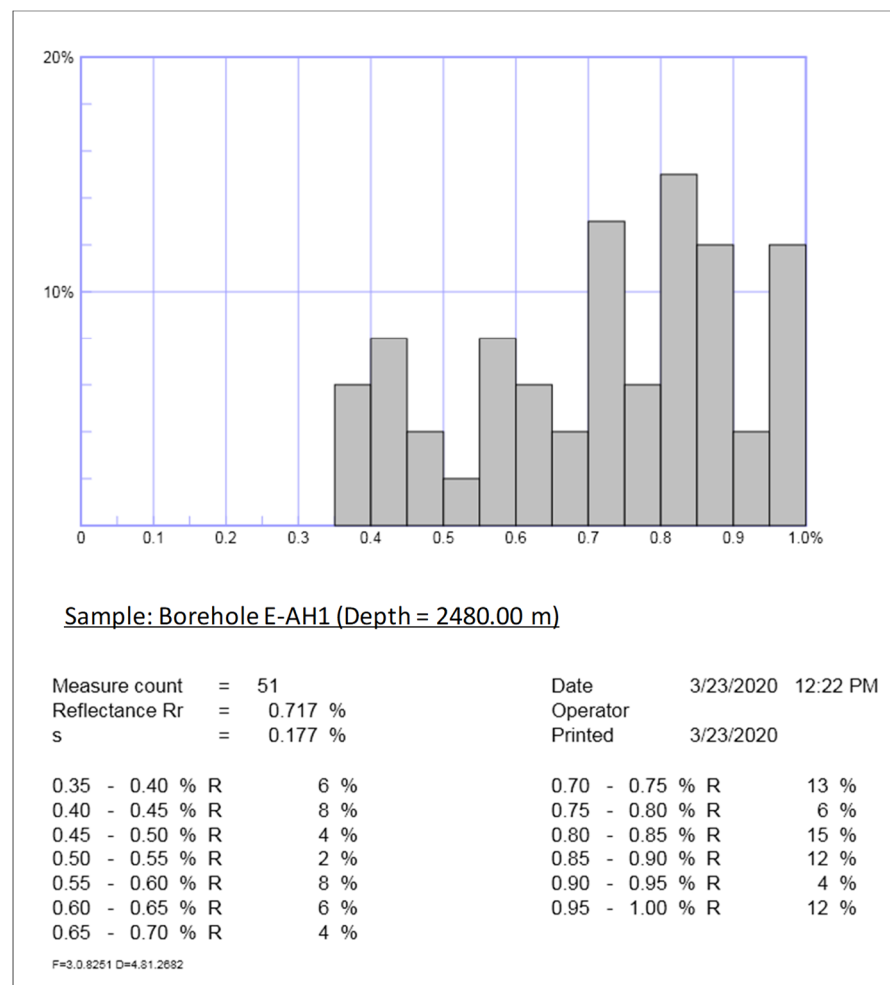
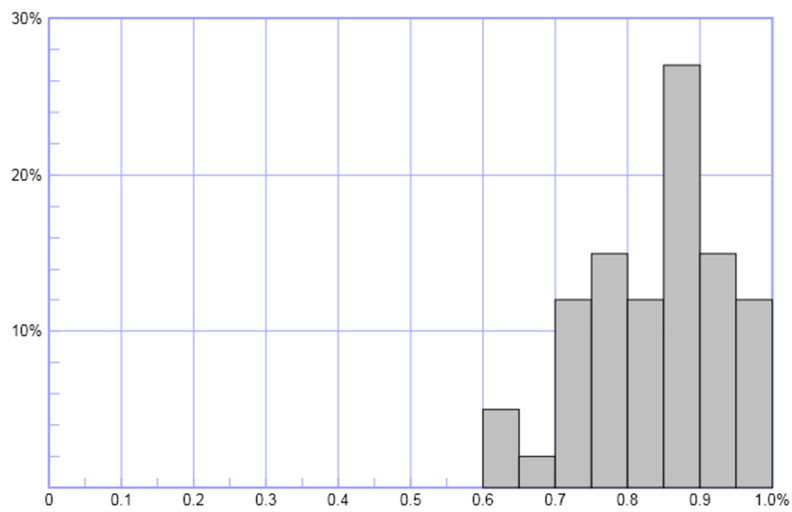


Supplementary Materials

Vitrinite Reflectance percentages



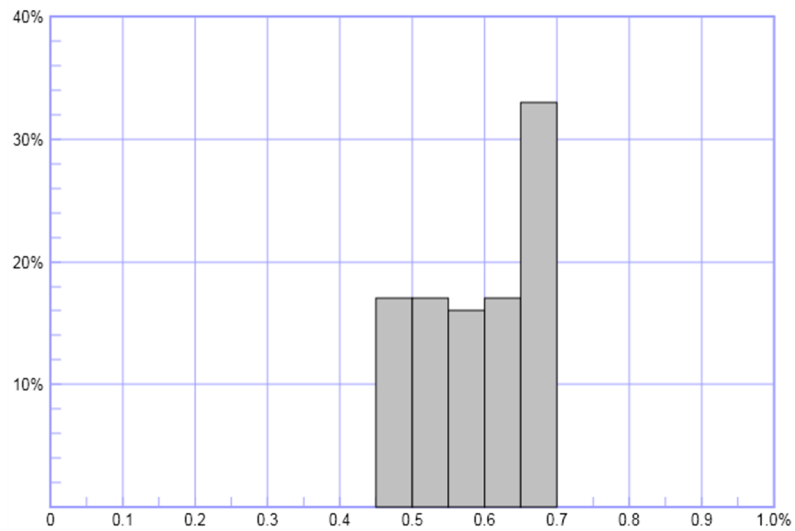


Sample: Borehole E-AH1 (Depth = 2484.00 m)

Measure count	=	41	Date	1/17/2020 09:41 AM
Reflectance Rr	=	0.837 %	Operator	
s	=	0.093 %	Printed	1/22/2020

0.60 - 0.65 % R	5 %	0.80 - 0.85 % R	12 %
0.65 - 0.70 % R	2 %	0.85 - 0.90 % R	27 %
0.70 - 0.75 % R	12 %	0.90 - 0.95 % R	15 %
0.75 - 0.80 % R	15 %	0.95 - 1.00 % R	12 %

F=3.0.8251 D=4.81.2682



Sample: Borehole E-AJ1 (Depth = 2694.07 m)

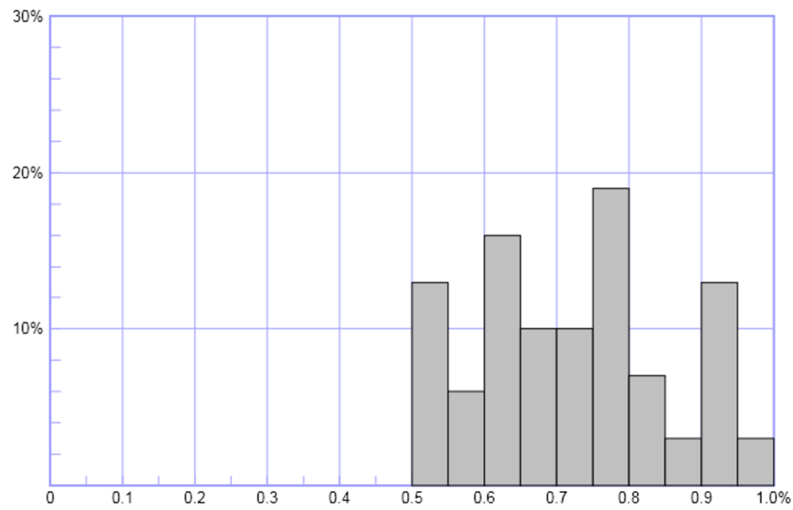
Measure count = 6
 Reflectance Rr = 0.589 %
 s = 0.073 %

Date 3/23/2020 11:56 AM
 Operator
 Printed 3/23/2020

0.45 - 0.50 % R 17 %
 0.50 - 0.55 % R 17 %
 0.55 - 0.60 % R 16 %

0.60 - 0.65 % R 17 %
 0.65 - 0.70 % R 33 %

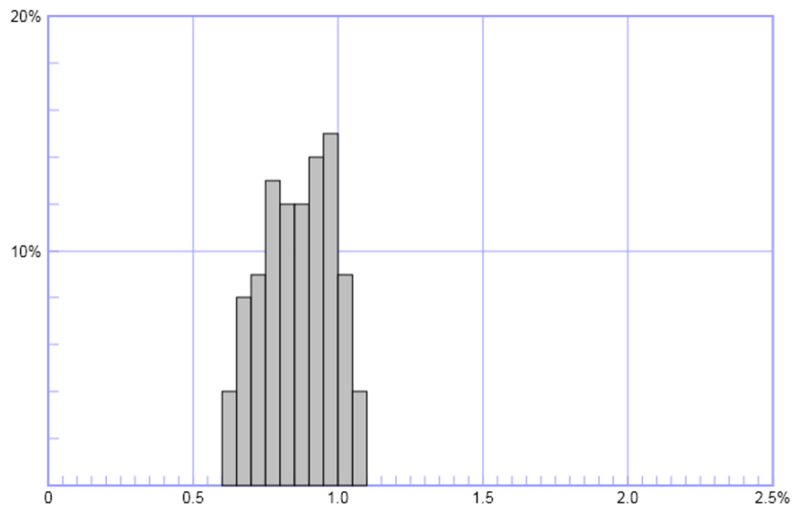
F=3.08251 D=4.812682



Sample: Borehole E-AJ1 (Depth = 2700.00 m)

Measure count	=	31	Date	1/15/2020 04:40 PM
Reflectance Rr	=	0.720 %	Operator	
s	=	0.132 %	Printed	1/22/2020
0.50 - 0.55 % R		13 %	0.75 - 0.80 % R	19 %
0.55 - 0.60 % R		6 %	0.80 - 0.85 % R	7 %
0.60 - 0.65 % R		16 %	0.85 - 0.90 % R	3 %
0.65 - 0.70 % R		10 %	0.90 - 0.95 % R	13 %
0.70 - 0.75 % R		10 %	0.95 - 1.00 % R	3 %

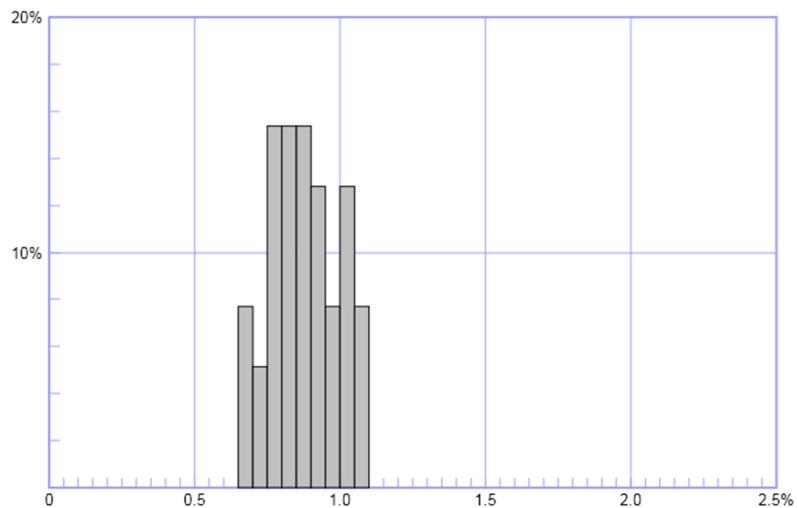
F=3.0.8251 D=4.81.2682



Sample: Borehole E-AJ1 (Depth = 2707.00 m)

Measure count	=	104	Date	1/22/2020 09:54 AM
Reflectance Rr	=	0.860 %	Operator	
s	=	0.117 %	Printed	1/22/2020
0.60 - 0.65 % R		4 %	0.85 - 0.90 % R	12 %
0.65 - 0.70 % R		8 %	0.90 - 0.95 % R	14 %
0.70 - 0.75 % R		9 %	0.95 - 1.00 % R	15 %
0.75 - 0.80 % R		13 %	1.00 - 1.05 % R	9 %
0.80 - 0.85 % R		12 %	1.05 - 1.10 % R	4 %

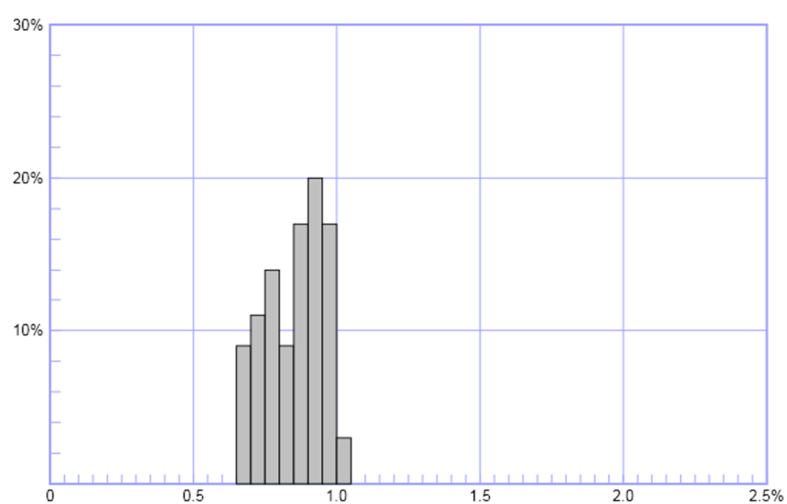
F=3.0.8251 D=4.81.2682



Sample: Borehole E-AJ1 (Depth = 2728.00 m)

Measure count	=	39	Date	3/23/2020	11:19 AM
Reflectance Rr	=	0.877 %	Operator		
s	=	0.114 %	Printed	3/23/2020	
0.65 - 0.70 % R		7.7 %	0.90 - 0.95 % R		12.8 %
0.70 - 0.75 % R		5.1 %	0.95 - 1.00 % R		7.7 %
0.75 - 0.80 % R		15.4 %	1.00 - 1.05 % R		12.8 %
0.80 - 0.85 % R		15.4 %	1.05 - 1.10 % R		7.7 %
0.85 - 0.90 % R		15.4 %			

F=3.0.8251 D=4.81.2682



Sample: Borehole E-AJ1 (Depth = 2976.29 m)

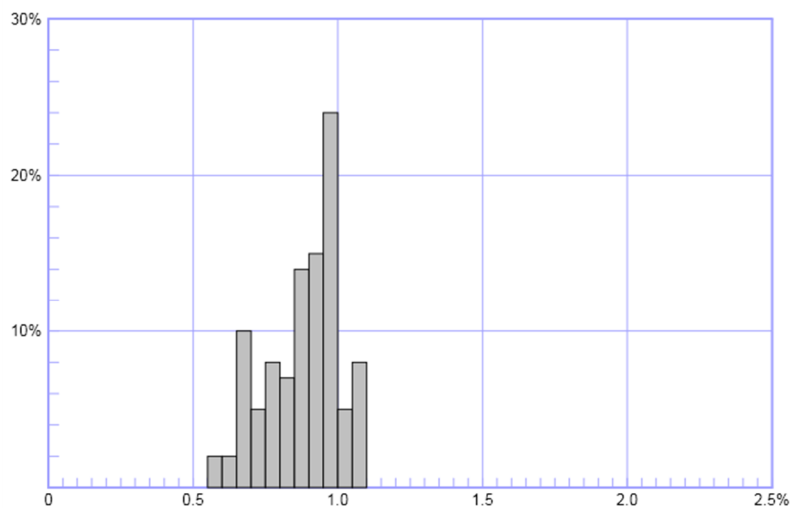
Measure count = 35
 Reflectance Rr = 0.852 %
 s = 0.105 %

Date 1/15/2020 02:55 PM
 Operator
 Printed 1/22/2020

0.65 - 0.70 % R 9 %
 0.70 - 0.75 % R 11 %
 0.75 - 0.80 % R 14 %
 0.80 - 0.85 % R 9 %

0.85 - 0.90 % R 17 %
 0.90 - 0.95 % R 20 %
 0.95 - 1.00 % R 17 %
 1.00 - 1.05 % R 3 %

F=3.08251 D=4.812682

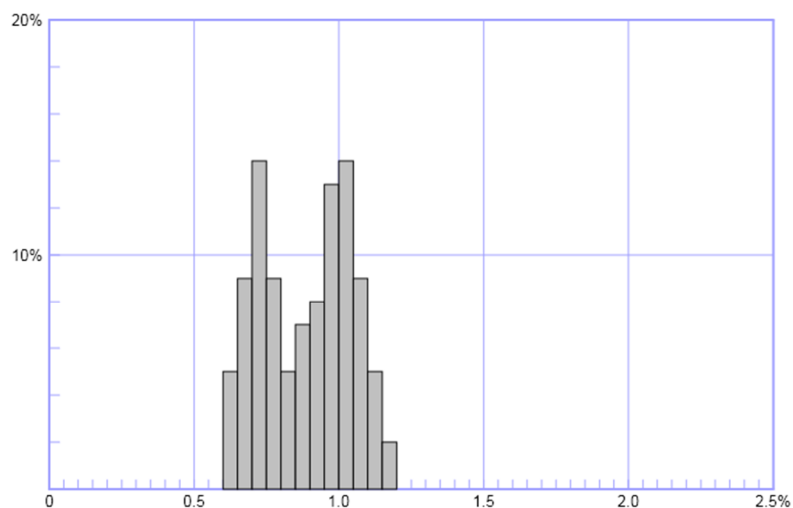


Sample: Borehole E-AJ1 (Depth = 2981.00 m)

Measure count	=	59	Date	1/17/2020	12:32 PM
Reflectance Rr	=	0.880 %	Operator		
s	=	0.125 %	Printed	1/22/2020	

0.55 - 0.60 % R	2 %	0.85 - 0.90 % R	14 %
0.60 - 0.65 % R	2 %	0.90 - 0.95 % R	15 %
0.65 - 0.70 % R	10 %	0.95 - 1.00 % R	24 %
0.70 - 0.75 % R	5 %	1.00 - 1.05 % R	5 %
0.75 - 0.80 % R	8 %	1.05 - 1.10 % R	8 %
0.80 - 0.85 % R	7 %		

F=3.0.8251 D=4.51.2682



Sample: Borehole E-AJ1 (Depth = 3039.10 m)

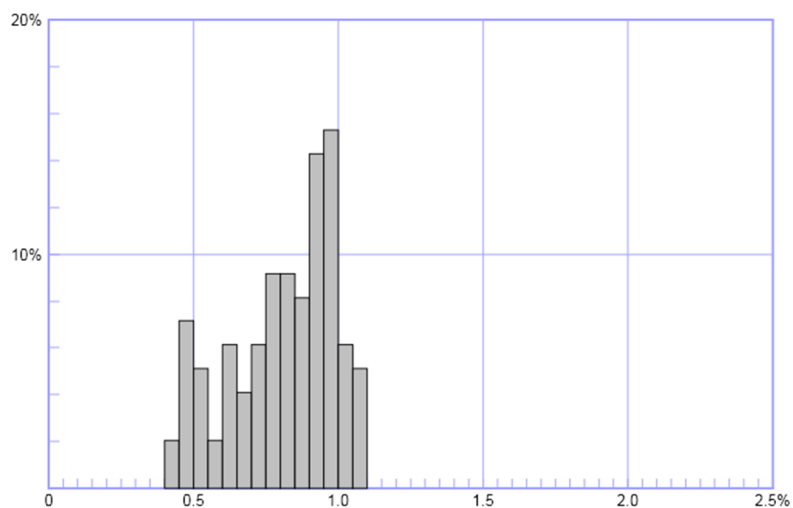
Measure count = 100
 Reflectance Rr = 0.884 %
 s = 0.155 %

Date 1/17/2020 09:06 AM
 Operator
 Printed 1/22/2020

0.60 - 0.65 % R 5 %
 0.65 - 0.70 % R 9 %
 0.70 - 0.75 % R 14 %
 0.75 - 0.80 % R 9 %
 0.80 - 0.85 % R 5 %
 0.85 - 0.90 % R 7 %

0.90 - 0.95 % R 8 %
 0.95 - 1.00 % R 13 %
 1.00 - 1.05 % R 14 %
 1.05 - 1.10 % R 9 %
 1.10 - 1.15 % R 5 %
 1.15 - 1.20 % R 2 %

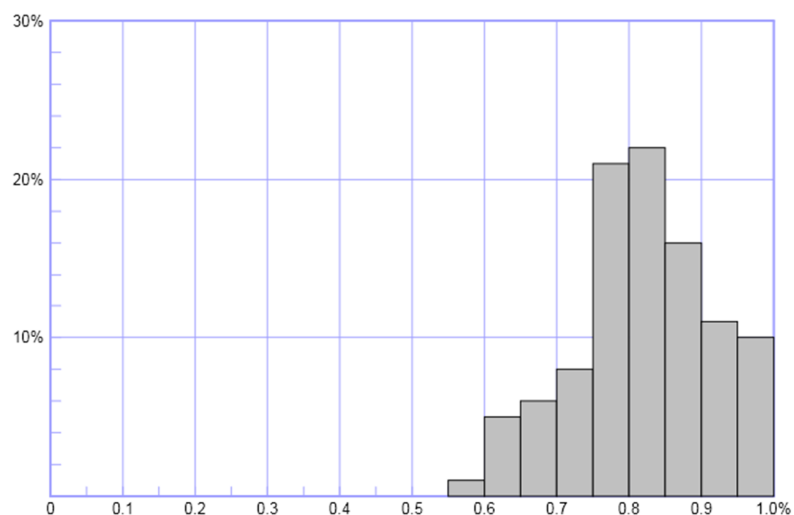
F=3.0.8251 D=4.81.2682



Sample: Borehole E-BA1 (Depth = 2828.05 m)

Measure count	=	98	Date	3/23/2020	10:42 AM
Reflectance Rr	=	0.808 %	Operator		
s	=	0.181 %	Printed	3/23/2020	
0.40 - 0.45 % R		2.0 %	0.75 - 0.80 % R		9.2 %
0.45 - 0.50 % R		7.1 %	0.80 - 0.85 % R		9.2 %
0.50 - 0.55 % R		5.1 %	0.85 - 0.90 % R		8.2 %
0.55 - 0.60 % R		2.0 %	0.90 - 0.95 % R		14.3 %
0.60 - 0.65 % R		6.1 %	0.95 - 1.00 % R		15.3 %
0.65 - 0.70 % R		4.1 %	1.00 - 1.05 % R		6.1 %
0.70 - 0.75 % R		6.1 %	1.05 - 1.10 % R		5.1 %

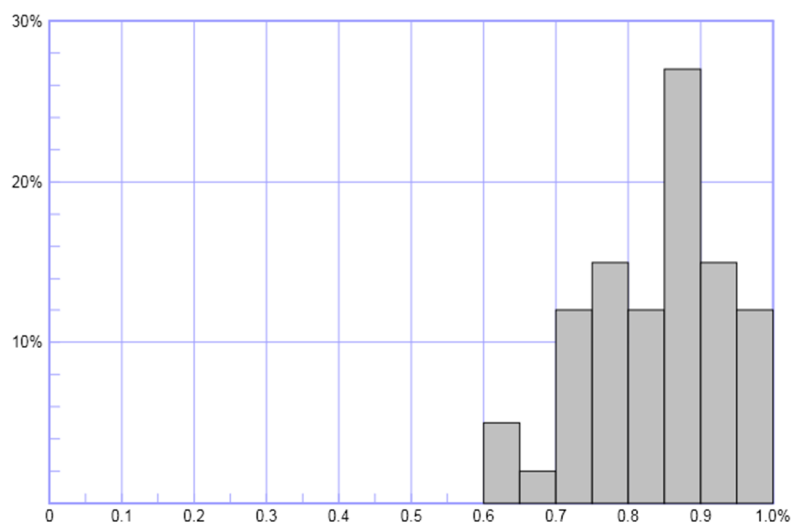
F=3.0.8251 D=4.81.2682



Sample: Borehole E-BA1 (Depth = 2541.06 m)

Measure count	=	97	Date	1/15/2020 02:07 PM
Reflectance Rr	=	0.817 %	Operator	
s	=	0.092 %	Printed	1/22/2020
0.55 - 0.60 % R		1 %	0.80 - 0.85 % R	22 %
0.60 - 0.65 % R		5 %	0.85 - 0.90 % R	16 %
0.65 - 0.70 % R		6 %	0.90 - 0.95 % R	11 %
0.70 - 0.75 % R		8 %	0.95 - 1.00 % R	10 %
0.75 - 0.80 % R		21 %		

F=3.0.8251 D=4.51.2682



Sample: Borehole E-BB1 (Depth = 2549.90 m)

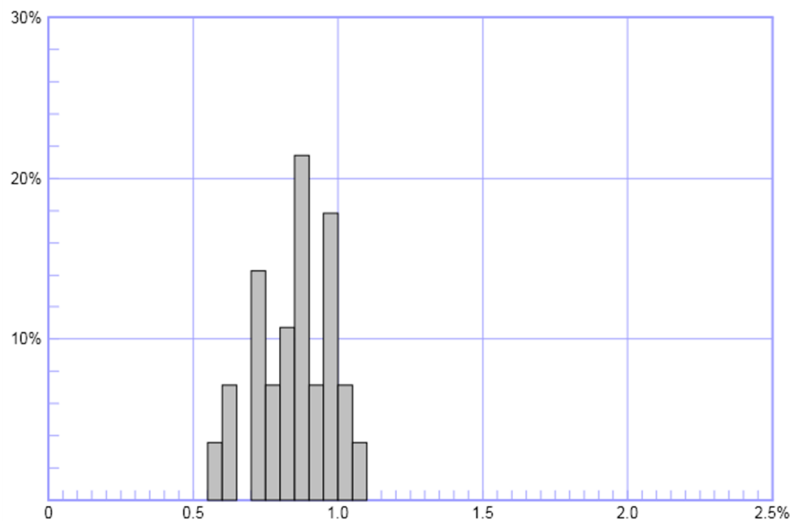
Measure count = 41
 Reflectance Rr = 0.837 %
 s = 0.093 %

Date 1/17/2020 09:41 AM
 Operator
 Printed 1/22/2020

0.60 - 0.65 % R 5 %
 0.65 - 0.70 % R 2 %
 0.70 - 0.75 % R 12 %
 0.75 - 0.80 % R 15 %

0.80 - 0.85 % R 12 %
 0.85 - 0.90 % R 27 %
 0.90 - 0.95 % R 15 %
 0.95 - 1.00 % R 12 %

F=3.0.8251 D=4.81.2682



Sample: Borehole E-BB1 (Depth = 2662.46 m)

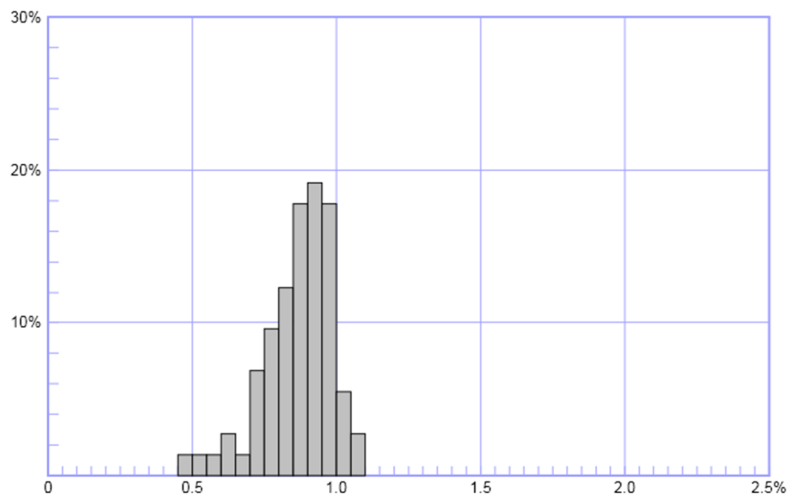
Measure count = 28
 Reflectance Rr = 0.851 %
 s = 0.127 %

Date 3/18/2020 04:26 PM
 Operator
 Printed 3/18/2020

0.55 - 0.60 % R 3.6 %
 0.60 - 0.65 % R 7.1 %
 0.70 - 0.75 % R 14.3 %
 0.75 - 0.80 % R 7.1 %
 0.80 - 0.85 % R 10.7 %

0.85 - 0.90 % R 21.4 %
 0.90 - 0.95 % R 7.1 %
 0.95 - 1.00 % R 17.9 %
 1.00 - 1.05 % R 7.1 %
 1.05 - 1.10 % R 3.6 %

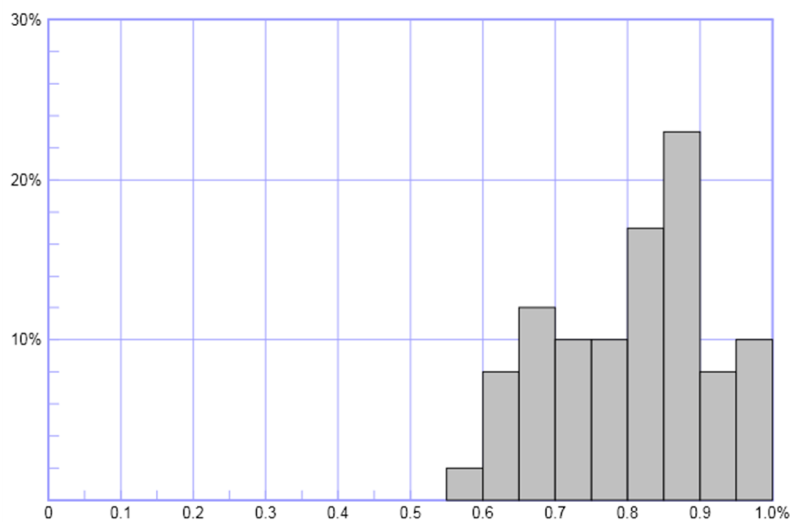
F=3.0.8251 D=4.81.2682



Sample: Borehole E-BB1 (Depth = 2667.00 m)

Measure count	=	73	Date	3/18/2020	03:52 PM
Reflectance Rr	=	0.864 %	Operator		
s	=	0.122 %	Printed	3/18/2020	
0.45 - 0.50 % R		1.4 %	0.80 - 0.85 % R		12.3 %
0.50 - 0.55 % R		1.4 %	0.85 - 0.90 % R		17.8 %
0.55 - 0.60 % R		1.4 %	0.90 - 0.95 % R		19.2 %
0.60 - 0.65 % R		2.7 %	0.95 - 1.00 % R		17.8 %
0.65 - 0.70 % R		1.4 %	1.00 - 1.05 % R		5.5 %
0.70 - 0.75 % R		6.8 %	1.05 - 1.10 % R		2.7 %
0.75 - 0.80 % R		9.6 %			

F=3.0.8251 D=4.81.2682



Sample: Borehole E-BB1 (Depth = 2720.90 m)

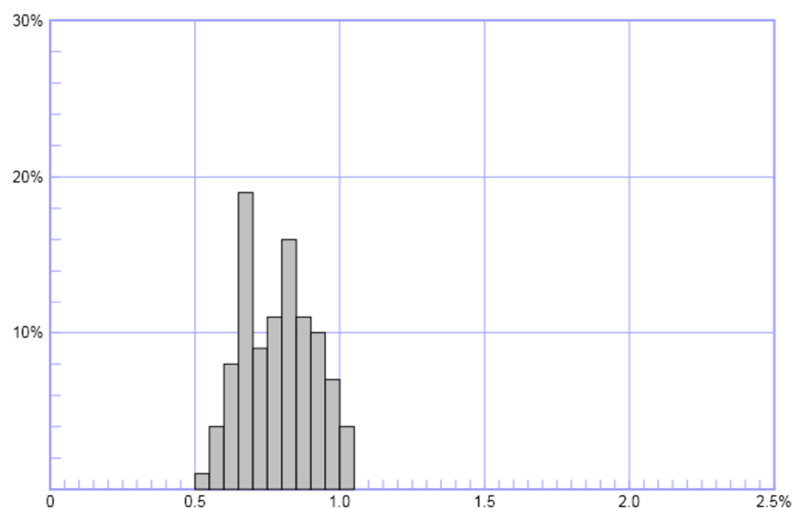
Measure count = 51
 Reflectance Rr = 0.806 %
 s = 0.105 %

Date 1/17/2020 12:05 PM
 Operator
 Printed 1/22/2020

0.55 - 0.60 % R 2 %
 0.60 - 0.65 % R 8 %
 0.65 - 0.70 % R 12 %
 0.70 - 0.75 % R 10 %
 0.75 - 0.80 % R 10 %

0.80 - 0.85 % R 17 %
 0.85 - 0.90 % R 23 %
 0.90 - 0.95 % R 8 %
 0.95 - 1.00 % R 10 %

F=3.0.8251 D=4.81.2682



Sample: Borehole E-BB1 (Depth = 2722.93 m)

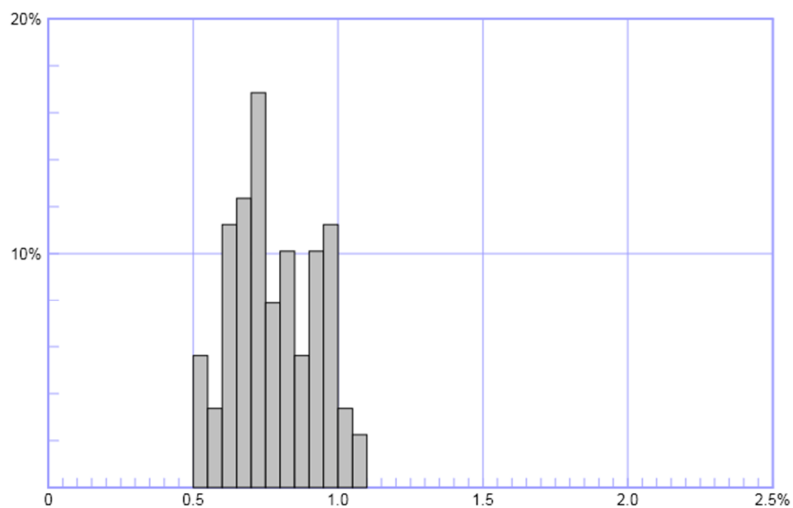
Measure count = 103
 Reflectance Rr = 0.785 %
 s = 0.121 %

Date 1/15/2020 03:56 PM
 Operator
 Printed 1/22/2020

0.50 - 0.55 % R 1 %
 0.55 - 0.60 % R 4 %
 0.60 - 0.65 % R 8 %
 0.65 - 0.70 % R 19 %
 0.70 - 0.75 % R 9 %
 0.75 - 0.80 % R 11 %

0.80 - 0.85 % R 16 %
 0.85 - 0.90 % R 11 %
 0.90 - 0.95 % R 10 %
 0.95 - 1.00 % R 7 %
 1.00 - 1.05 % R 4 %

F=3.0.8251 D=4.51.2682

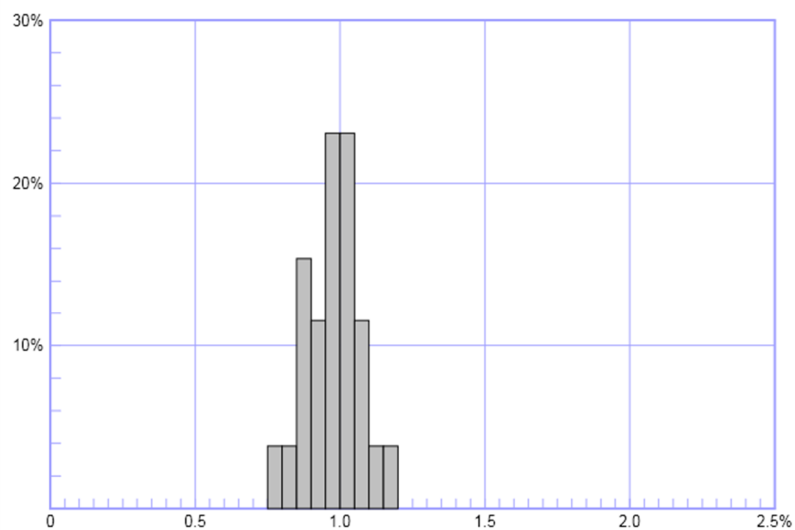


Sample: Borehole E-BB1 (Depth = 2872.85 m)

Measure count	=	89	Date	3/18/2020	03:19 PM
Reflectance Rr	=	0.779 %	Operator		
s	=	0.145 %	Printed	3/18/2020	

0.50 - 0.55 % R	5.6 %	0.80 - 0.85 % R	10.1 %
0.55 - 0.60 % R	3.4 %	0.85 - 0.90 % R	5.6 %
0.60 - 0.65 % R	11.2 %	0.90 - 0.95 % R	10.1 %
0.65 - 0.70 % R	12.4 %	0.95 - 1.00 % R	11.2 %
0.70 - 0.75 % R	16.9 %	1.00 - 1.05 % R	3.4 %
0.75 - 0.80 % R	7.9 %	1.05 - 1.10 % R	2.2 %

F=3.0.8251 D=4.51.2682

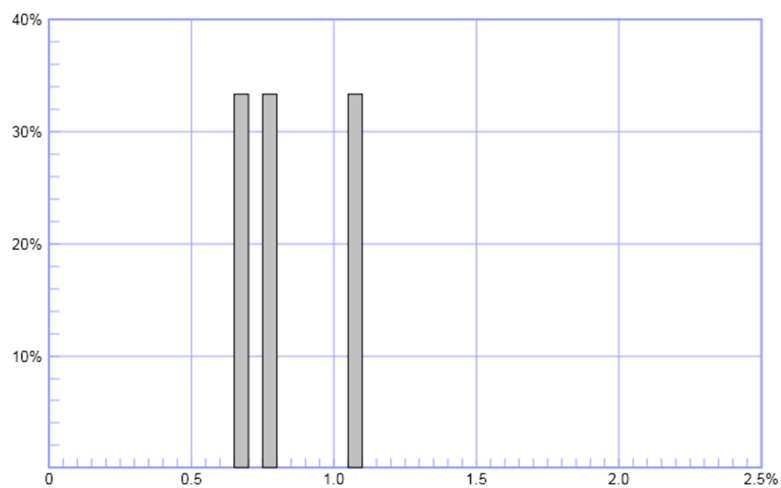


Sample: Borehole E-BB1 (Depth = 3291.86 m)

Measure count	=	26	Date	3/18/2020	02:19 PM
Reflectance Rr	=	0.978 %	Operator		
s	=	0.086 %	Printed	3/18/2020	

0.75 - 0.80 % R	3.8 %	1.00 - 1.05 % R	23.1 %
0.80 - 0.85 % R	3.8 %	1.05 - 1.10 % R	11.5 %
0.85 - 0.90 % R	15.4 %	1.10 - 1.15 % R	3.8 %
0.90 - 0.95 % R	11.5 %	1.15 - 1.20 % R	3.8 %
0.95 - 1.00 % R	23.1 %		

F=3.0.8251 D=4.51.2682



Sample: Borehole E-D3 (Depth = 3263.60 m)

Measure count	=	3	Date	3/18/2020 01:27 PM
Reflectance Rr	=	0.856 %	Operator	
s	=	0.174 %	Printed	3/18/2020

0.65 - 0.70 % R	33.3 %	1.05 - 1.10 % R	33.3 %
0.75 - 0.80 % R	33.3 %		

F=3.0.8251 D=4.81.2682

