

*** Basic Data Process ***

Group : 29-12-2021
Data : Dr-abdelhamed-Sameh-1

Strongest 3 peaks

no.	peak	2Theta	d	I/I1	FWHM	Intensity	Integrated Int
	no.	(deg)	(Å)		(deg)	(Counts)	(Counts)
1	51	26.3666	3.37751	100	0.38670	33	717
2	50	25.8200	3.44776	33	0.18000	11	171
3	52	26.7800	3.32631	33	0.16000	11	163

Peak Data List

peak no.	2Theta (deg)	d (A)	I/I1	FWHM (deg)	Intensity (Counts)	Integrated Int (Counts)
1	5.0850	17.36457	9	0.07000	3	16
2	5.3750	16.42833	9	0.03000	3	7
3	5.6800	15.54684	15	0.08000	5	33
4	6.5800	13.42225	21	0.16000	7	118
5	7.1100	12.42286	24	0.18000	8	110
6	7.6600	11.53207	15	0.04000	5	26
7	7.9766	11.07504	15	0.08670	5	25
8	8.4400	10.46798	3	0.00000	1	0
9	8.7400	10.10933	6	0.04000	2	5
10	9.0100	9.80698	12	0.06000	4	25
11	9.3400	9.46121	3	0.00000	1	0
12	9.6450	9.16269	12	0.05000	4	18
13	10.3467	8.54281	15	0.08000	5	32
14	10.8250	8.16640	12	0.17000	4	48
15	11.3600	7.78298	15	0.08000	5	41
16	11.7600	7.51913	18	0.08000	6	52
17	11.9900	7.37541	15	0.06000	5	38
18	12.4300	7.11530	24	0.14000	8	69
19	13.0300	6.78898	15	0.10000	5	49
20	13.4500	6.57791	24	0.10000	8	54
21	13.9000	6.36595	18	0.20000	6	71
22	14.2400	6.21471	24	0.16000	8	79
23	14.5025	6.10281	18	0.11500	6	53
24	14.9100	5.93692	18	0.10000	6	54
25	15.1800	5.83192	18	0.08000	6	49
26	15.7200	5.63278	9	0.06000	3	16
27	16.4000	5.40073	9	0.08000	3	31
28	16.8700	5.25131	12	0.06000	4	28
29	17.1550	5.16470	15	0.07000	5	36
30	17.8133	4.97529	12	0.06670	4	27
31	18.0866	4.90072	12	0.09330	4	30
32	18.3933	4.81969	15	0.09330	5	41
33	18.7450	4.73005	12	0.07000	4	15
34	19.3200	4.59055	15	0.08000	5	49
35	19.6050	4.52446	12	0.05000	4	17
36	19.8750	4.46360	9	0.05000	3	23
37	20.4850	4.33204	6	0.03000	2	7
38	21.0450	4.21801	9	0.03000	3	14
39	21.4666	4.13611	18	0.06670	6	40
40	21.7825	4.07684	21	0.06500	7	40
41	22.0900	4.02078	21	0.10000	7	76
42	22.5900	3.93290	21	0.22000	7	115
43	23.0200	3.86040	15	0.06000	5	23
44	23.4350	3.79297	15	0.05000	5	24
45	23.5700	3.77155	15	0.06000	5	34
46	24.0250	3.70114	6	0.05000	2	7
47	24.4283	3.64094	27	0.12330	9	70
48	24.9566	3.56505	15	0.19330	5	91
49	25.2600	3.52291	12	0.00000	4	0

peak no.	2Theta (deg)	d (Å)	I/I1	FWHM (deg)	Intensity (Counts)	Integrated Int (Counts)
50	25.8200	3.44776	33	0.18000	11	171
51	26.3666	3.37751	100	0.38670	33	717
52	26.7800	3.32631	33	0.16000	11	163
53	27.2000	3.27589	9	0.04000	3	15
54	27.4516	3.24644	12	0.08330	4	21
55	27.9850	3.18576	21	0.07000	7	36
56	28.2133	3.16050	12	0.09330	4	33
57	29.0725	3.06902	21	0.11500	7	67
58	29.4050	3.03507	27	0.09000	9	79
59	29.9516	2.98091	18	0.08330	6	38
60	30.5350	2.92527	21	0.09000	7	36
61	30.8833	2.89307	30	0.20670	10	104
62	31.4700	2.84046	24	0.26000	8	110
63	31.8550	2.80700	27	0.19000	9	122
64	32.3550	2.76476	12	0.13000	4	30
65	32.6800	2.73800	9	0.04000	3	12
66	33.1350	2.70144	6	0.07000	2	9
67	33.4500	2.67671	18	0.14000	6	45
68	34.0716	2.62929	18	0.12330	6	48
69	34.4300	2.60273	18	0.06000	6	43
70	35.0366	2.55905	27	0.15330	9	85
71	35.5000	2.52670	21	0.12000	7	43
72	35.8066	2.50576	21	0.14670	7	67
73	36.2766	2.47437	18	0.16670	6	50
74	36.5500	2.45648	12	0.14000	4	57
75	37.2250	2.41348	15	0.09000	5	30
76	37.8250	2.37656	9	0.03000	3	20
77	38.1200	2.35885	9	0.04000	3	34
78	38.4050	2.34199	9	0.05000	3	22
79	38.9600	2.30990	9	0.04000	3	20
80	39.7000	2.26853	9	0.04000	3	25
81	39.9800	2.25329	15	0.04000	5	22
82	40.5050	2.22528	9	0.05000	3	15
83	40.8000	2.20987	9	0.04000	3	20
84	41.4200	2.17822	3	0.00000	1	0
85	41.8400	2.15732	12	0.12000	4	25
86	42.0800	2.14557	6	0.12000	2	13
87	42.5800	2.12152	3	0.00000	1	0
88	42.9983	2.10185	15	0.09670	5	28
89	43.4200	2.08240	15	0.12000	5	46
90	43.8200	2.06432	21	0.28000	7	139
91	44.4500	2.03651	9	0.06000	3	25
92	45.0500	2.01077	9	0.06000	3	23
93	45.5850	1.98841	6	0.03000	2	4
94	46.0900	1.96779	12	0.14000	4	36
95	46.6200	1.94665	6	0.04000	2	7
96	46.9300	1.93451	12	0.10000	4	30
97	47.2400	1.92254	9	0.04000	3	20
98	47.6500	1.90695	6	0.10000	2	17
99	47.9650	1.89515	12	0.11000	4	34
100	48.2600	1.88426	15	0.08000	5	56
101	48.7800	1.86538	3	0.00000	1	0
102	49.1000	1.85397	9	0.08000	3	16
103	49.6100	1.83610	18	0.10000	6	55
104	49.9400	1.82473	9	0.04000	3	23
105	50.2700	1.81353	18	0.10000	6	39
106	50.5350	1.80464	12	0.09000	4	16
107	51.0350	1.78812	24	0.19000	8	75
108	51.4750	1.77387	21	0.19000	7	84
109	51.8550	1.76176	27	0.19000	9	136
110	52.2400	1.74968	9	0.00000	3	0
111	52.4400	1.74347	18	0.16000	6	110

peak no.	2Theta (deg)	d (Å)	I/I1	FWHM (deg)	Intensity (Counts)	Integrated Int (Counts)
112	52.9900	1.72667	15	0.10000	5	31
113	53.3183	1.71681	27	0.13670	9	75
114	53.7433	1.70423	9	0.04670	3	15
115	54.0700	1.69470	6	0.06000	2	12
116	54.4400	1.68405	18	0.16000	6	46
117	54.7600	1.67497	12	0.16000	4	39
118	55.0600	1.66655	3	0.00000	1	0
119	55.3050	1.65974	6	0.05000	2	5
120	55.6000	1.65163	9	0.04000	3	20
121	56.2500	1.63408	6	0.08000	2	11
122	56.5200	1.62691	3	0.00000	1	0
123	57.0800	1.61227	15	0.08000	5	39
124	58.2200	1.58339	6	0.04000	2	10
125	58.4950	1.57660	9	0.05000	3	14
126	58.7500	1.57036	9	0.14000	3	31
127	59.1200	1.56141	3	0.00000	1	0
128	59.4600	1.55330	12	0.16000	4	42
129	60.0000	1.54060	6	0.02000	2	2
130	60.3600	1.53227	3	0.00000	1	0
131	60.7200	1.52404	6	0.08000	2	12
132	61.4050	1.50868	9	0.05000	3	16
133	61.8850	1.49812	15	0.09000	5	47
134	62.1800	1.49172	6	0.00000	2	0
135	62.5500	1.48378	12	0.06000	4	24
136	62.8650	1.47710	12	0.09000	4	21
137	63.1900	1.47029	15	0.14000	5	39
138	63.5183	1.46348	12	0.13670	4	38
139	63.8200	1.45728	6	0.04000	2	8
140	64.3500	1.44655	9	0.06000	3	32
141	64.8600	1.43641	12	0.12000	4	32
142	65.4700	1.42449	12	0.10000	4	41
143	65.9200	1.41585	3	0.00000	1	0
144	66.2250	1.41007	6	0.03000	2	7
145	66.8800	1.39784	6	0.04000	2	5
146	67.1300	1.39324	6	0.06000	2	16
147	67.6600	1.38361	3	0.00000	1	0
148	68.8400	1.36275	15	0.12000	5	40
149	69.3700	1.35363	12	0.14000	4	43
150	69.6700	1.34853	6	0.10000	2	14
151	69.9950	1.34306	9	0.13000	3	23
152	70.4000	1.33632	3	0.00000	1	0
153	70.7950	1.32983	15	0.19000	5	60
154	71.2800	1.32197	9	0.04000	3	23
155	72.0000	1.31051	12	0.12000	4	31
156	72.4600	1.30332	18	0.16000	6	53
157	72.8150	1.29784	9	0.03000	3	10
158	73.1200	1.29318	6	0.04000	2	9
159	73.4200	1.28863	3	0.00000	1	0
160	73.8400	1.28234	6	0.04000	2	6
161	74.2400	1.27642	12	0.12000	4	32
162	74.6850	1.26991	6	0.05000	2	5
163	75.4100	1.25949	9	0.10000	3	43
164	75.8600	1.25314	9	0.04000	3	18
165	76.2900	1.24714	9	0.06000	3	25
166	76.8500	1.23944	9	0.06000	3	19
167	77.2700	1.23375	6	0.10000	2	12
168	77.5400	1.23013	3	0.00000	1	0
169	77.9950	1.22408	6	0.09000	2	20
170	78.3550	1.21936	9	0.05000	3	22
171	79.1400	1.20922	9	0.04000	3	14

*** Basic Data Process ***

Data Infomation

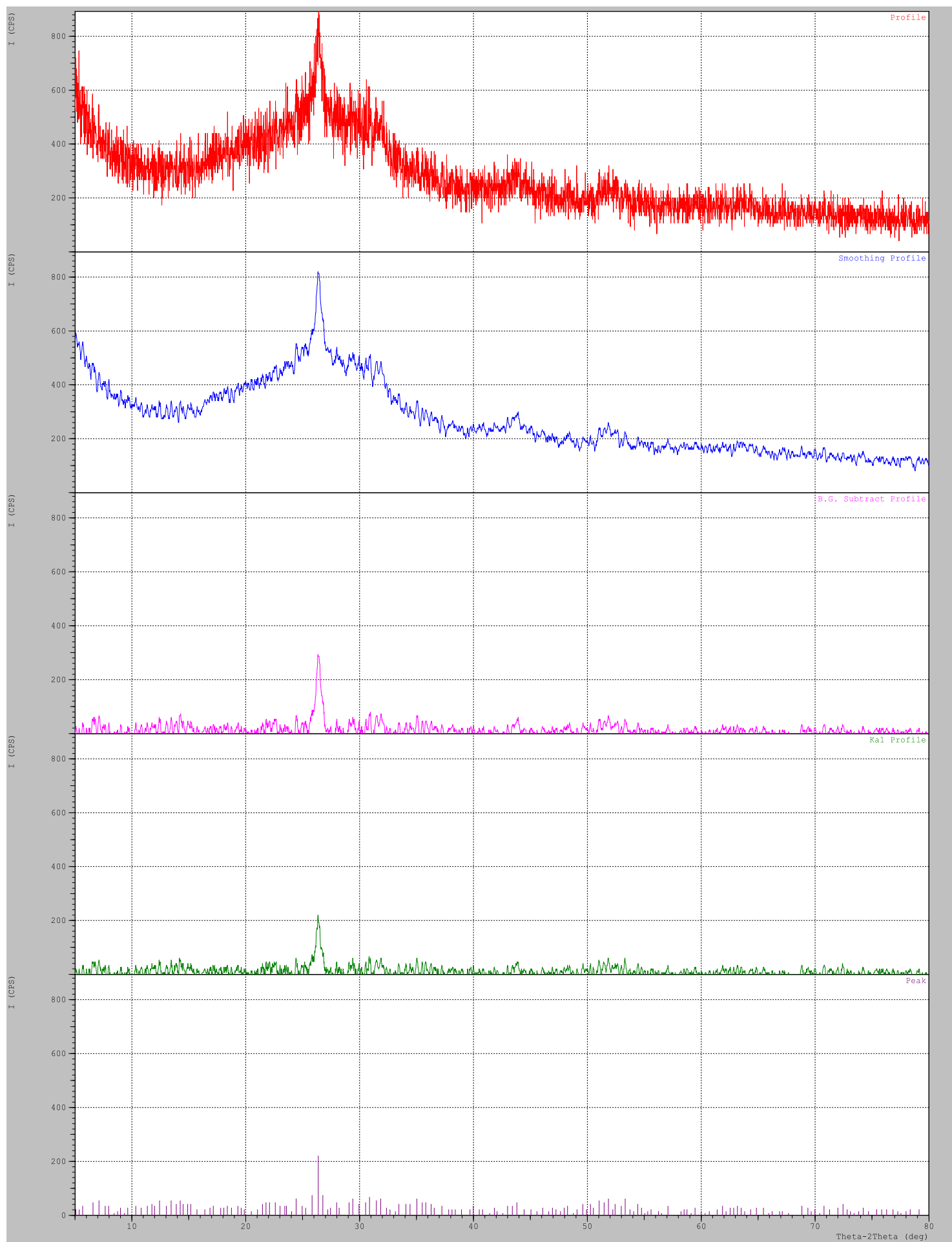
Group : 29-12-2021
Data : Dr-abdelhamed-Sameh-1
Sample Nmae : Dr-abdelhamed-Sameh-
Comment :
Date & Time : 12-29-21 11:00:28

Measurement Condition

X-ray tube
target : Cu
voltage : 40.0 (kV)
current : 30.0 (mA)
Slits
Auto Slit : not Used
divergence slit : 1.00000 (deg)
scatter slit : 1.00000 (deg)
receiving slit : 0.30000 (mm)
Scanning
drive axis : Theta-2Theta
scan range : 5.0000 - 80.0000 (deg)
scan mode : Continuous Scan
scan speed : 8.0000 (deg/min)
sampling pitch : 0.0200 (deg)
preset time : 0.15 (sec)

Data Process Condition

Smoothing [MANUAL]
smoothing points : 17
B.G.Subtruction [MANUAL]
sampling points : 19
repeat times : 30
Ka1-a2 Separate [MANUAL]
Ka1 a2 ratio : 50 (%)
Peak Search [AUTO]
differential points : 21
FWHM threshold : 0.050 (deg)
intensity threshold : 30 (par mil)
FWHM ratio (n-1)/n : 2
System error Correction [NO]
Precise peak Correction [NO]



*** Basic Data Process ***

Group : 29-12-2021
Data : Dr-abdelhamed-Sameh-2

Strongest 3 peaks

no.	peak no.	2Theta (deg)	d (A)	I/I1	FWHM (deg)	Intensity (Counts)	Integrated Int (Counts)
1	38	26.3925	3.37426	100	0.54500	40	1084
2	37	25.6700	3.46757	43	0.18000	17	158
3	35	24.6666	3.60630	30	0.17330	12	185

Peak Data List

peak no.	2Theta (deg)	d (A)	I/I1	FWHM (deg)	Intensity (Counts)	Integrated Int (Counts)
1	5.1800	17.04632	8	0.02000	3	4
2	5.9200	14.91709	13	0.10660	5	40
3	6.5000	13.58727	8	0.04000	3	7
4	7.0600	12.51073	5	0.02000	2	2
5	7.6200	11.59252	15	0.00000	6	0
6	8.2550	10.70215	15	0.11000	6	54
7	8.7450	10.10356	8	0.03000	3	20
8	9.2733	9.52911	18	0.14670	7	58
9	10.1900	8.67383	10	0.06000	4	40
10	11.0533	7.99824	13	0.10670	5	43
11	11.5150	7.67856	5	0.05000	2	13
12	11.9900	7.37541	18	0.06000	7	44
13	12.4050	7.12959	20	0.13000	8	63
14	12.9716	6.81941	20	0.16330	8	104
15	13.5100	6.54883	15	0.10000	6	78
16	14.1750	6.24306	13	0.05000	5	36
17	14.6050	6.06021	10	0.05000	4	20
18	15.0700	5.87424	15	0.14000	6	81
19	15.9200	5.56247	8	0.04000	3	17
20	16.4400	5.38768	3	0.00000	1	0
21	16.8033	5.27200	8	0.04670	3	9
22	17.3650	5.10271	18	0.17000	7	79
23	17.8316	4.97023	20	0.08330	8	68
24	18.5000	4.79213	3	0.00000	1	0
25	18.9750	4.67323	8	0.07000	3	17
26	19.6450	4.51533	10	0.07000	4	24
27	20.2183	4.38857	13	0.06330	5	41
28	21.2000	4.18752	18	0.14000	7	145
29	21.5800	4.11463	3	0.00000	1	0
30	21.9716	4.04218	18	0.08330	7	48
31	22.4400	3.95885	18	0.16000	7	108
32	22.9150	3.87785	13	0.07000	5	32
33	23.5300	3.77787	10	0.10000	4	35
34	24.1700	3.67926	18	0.10000	7	72
35	24.6666	3.60630	30	0.17330	12	185
36	25.3450	3.51129	25	0.19000	10	124
37	25.6700	3.46757	43	0.18000	17	158
38	26.3925	3.37426	100	0.54500	40	1084
39	27.0400	3.29491	18	0.08000	7	72
40	27.4050	3.25185	25	0.13000	10	103
41	28.1400	3.16856	23	0.18000	9	97
42	29.3067	3.04502	25	0.40000	10	256
43	30.1000	2.96655	3	0.00000	1	0
44	30.2400	2.95313	3	0.00000	1	0
45	30.9000	2.89155	5	0.04000	2	21
46	31.4800	2.83958	18	0.04000	7	42
47	31.9400	2.79973	15	0.16000	6	115
48	32.3933	2.76158	10	0.09330	4	22
49	32.9350	2.71738	8	0.03000	3	10

peak no.	2Theta (deg)	d (Å)	I/I1	FWHM (deg)	Intensity (Counts)	Integrated Int (Counts)
50	33.5700	2.66742	20	0.14000	8	66
51	33.9150	2.64107	10	0.11000	4	25
52	34.4000	2.60493	15	0.14000	6	55
53	35.1600	2.55035	15	0.16000	6	72
54	35.6200	2.51846	3	0.00000	1	0
55	36.0400	2.49007	13	0.08000	5	32
56	36.4350	2.46397	15	0.11000	6	40
57	36.8350	2.43813	13	0.15000	5	53
58	37.3200	2.40755	5	0.04000	2	8
59	37.7200	2.38293	3	0.00000	1	0
60	38.1600	2.35646	13	0.08000	5	53
61	38.8033	2.31887	18	0.11330	7	57
62	39.3566	2.28753	13	0.07330	5	35
63	39.9750	2.25356	18	0.13000	7	102
64	40.6100	2.21977	10	0.14000	4	72
65	41.3250	2.18300	13	0.09000	5	55
66	41.9766	2.15061	15	0.15330	6	73
67	42.5300	2.12390	15	0.14000	6	56
68	43.0800	2.09805	8	0.04000	3	16
69	43.5700	2.07558	18	0.26000	7	111
70	43.9600	2.05807	25	0.48000	10	229
71	44.7100	2.02527	5	0.06000	2	14
72	45.2000	2.00445	8	0.04000	3	17
73	45.6300	1.98655	10	0.12000	4	37
74	46.3550	1.95716	13	0.07000	5	30
75	46.8200	1.93880	5	0.02000	2	2
76	47.1950	1.92426	8	0.13000	3	35
77	47.7000	1.90506	18	0.12000	7	57
78	48.4150	1.87859	13	0.11000	5	37
79	48.5400	1.87404	3	0.00000	1	0
80	48.6950	1.86844	13	0.09000	5	30
81	49.2550	1.84850	8	0.15000	3	33
82	49.8350	1.82833	10	0.15000	4	48
83	50.8700	1.79354	8	0.10000	3	27
84	51.0750	1.78682	8	0.05000	3	15
85	51.6000	1.76986	20	0.44000	8	180
86	52.1558	1.75230	28	0.13830	11	92
87	53.2300	1.71945	10	0.06000	4	25
88	53.8800	1.70023	3	0.00000	1	0
89	54.2200	1.69037	5	0.08000	2	22
90	54.6550	1.67794	13	0.09000	5	58
91	55.3000	1.65988	10	0.16000	4	49
92	56.4650	1.62837	8	0.07000	3	40
93	56.9500	1.61565	8	0.06000	3	16
94	57.3600	1.60507	8	0.04000	3	18
95	58.1700	1.58463	8	0.06000	3	26
96	58.6200	1.57354	3	0.00000	1	0
97	59.0550	1.56298	5	0.03000	2	3
98	59.5700	1.55069	13	0.14000	5	56
99	60.2200	1.53550	3	0.00000	1	0
100	60.7400	1.52359	8	0.12000	3	62
101	61.3050	1.51090	8	0.03000	3	15
102	62.3550	1.48795	13	0.11000	5	38
103	62.9350	1.47563	18	0.17000	7	91
104	63.3700	1.46654	18	0.14000	7	78
105	63.8150	1.45738	8	0.03000	3	7
106	64.5200	1.44315	18	0.20000	7	84
107	64.9550	1.43454	10	0.11000	4	32
108	66.0000	1.41433	13	0.16000	5	54
109	66.5933	1.40316	18	0.18670	7	86
110	67.2200	1.39160	13	0.16000	5	67
111	67.6350	1.38406	10	0.19000	4	54

peak no.	2Theta (deg)	d (Å)	I/I1	FWHM (deg)	Intensity (Counts)	Integrated Int (Counts)
112	68.6600	1.36588	10	0.08000	4	32
113	69.0950	1.35834	8	0.05000	3	19
114	69.7500	1.34718	13	0.14000	5	68
115	70.2400	1.33897	3	0.00000	1	0
116	70.4800	1.33500	3	0.00000	1	0
117	71.3550	1.32077	8	0.09000	3	30
118	72.0050	1.31043	8	0.09000	3	21
119	72.8400	1.29746	13	0.16000	5	58
120	73.3200	1.29014	8	0.04000	3	19
121	73.7800	1.28323	3	0.00000	1	0
122	74.5650	1.27166	8	0.13000	3	24
123	74.9900	1.26550	5	0.06000	2	10
124	75.6200	1.25651	10	0.16000	4	43
125	76.2000	1.24839	10	0.12000	4	30
126	76.6800	1.24176	8	0.04000	3	14
127	77.3100	1.23321	10	0.14000	4	54
128	78.0200	1.22376	3	0.00000	1	0
129	78.5250	1.21715	13	0.07000	5	46
130	79.0400	1.21050	5	0.04000	2	12
131	79.6000	1.20339	13	0.12000	5	52

*** Basic Data Process ***

Data Information

Group : 29-12-2021
Data : Dr-abdelhamed-Sameh-2
Sample Nmae : Dr-abdelhamed-Sameh2
Comment :
Date & Time : 12-29-21 11:26:54

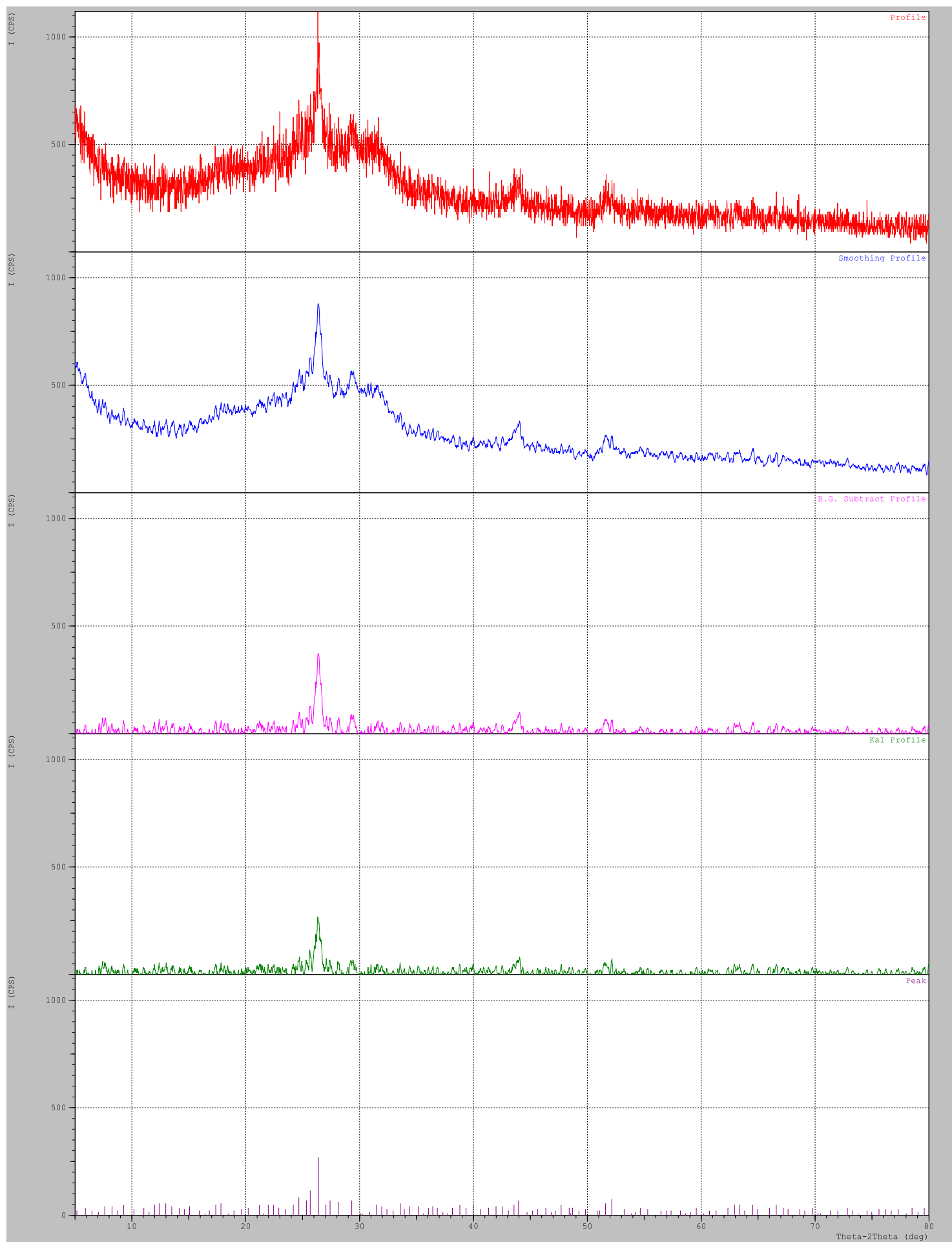
Measurement Condition

X-ray tube
target : Cu
voltage : 40.0 (kV)
current : 30.0 (mA)
Slits
Auto Slit : not Used
divergence slit : 1.00000 (deg)
scatter slit : 1.00000 (deg)
receiving slit : 0.30000 (mm)
Scanning
drive axis : Theta-2Theta
scan range : 5.0000 - 80.0000 (deg)
scan mode : Continuous Scan
scan speed : 8.0000 (deg/min)
sampling pitch : 0.0200 (deg)
preset time : 0.15 (sec)

Data Process Condition

Smoothing [MANUAL]
smoothing points : 17
B.G.Subtruction [MANUAL]
sampling points : 19
repeat times : 30
Ka1-a2 Separate [MANUAL]
Ka1 a2 ratio : 50 (%)
Peak Search [AUTO]
differential points : 29
FWHM threshold : 0.050 (deg)
intensity threshold : 30 (par mil)
FWHM ratio (n-1)/n : 2
System error Correction [NO]
Precise peak Correction [NO]

< Group: 29-12-2021 Data: Dr-abdelhamed-Sameh-2 >



*** Basic Data Process ***

Group : 29-12-2021
Data : Dr-abdelhamed-Sameh-3

Strongest 3 peaks

no.	peak no.	2Theta (deg)	d (Å)	I/I1	FWHM (deg)	Intensity (Counts)	Integrated Int (Counts)
1	47	26.6333	3.34430	100	0.46670	14	349
2	6	7.4366	11.87799	86	0.12670	12	97
3	34	20.7566	4.27596	71	0.11330	10	97

Peak Data List

peak no.	2Theta (deg)	d (Å)	I/I1	FWHM (deg)	Intensity (Counts)	Integrated Int (Counts)
1	5.2400	16.85127	21	0.04000	3	13
2	5.6400	15.65701	1	0.00000	0	0
3	6.1250	14.41827	43	0.07000	6	53
4	6.5700	13.44266	36	0.06000	5	48
5	7.0550	12.51958	21	0.03000	3	11
6	7.4366	11.87799	86	0.12670	12	97
7	7.8400	11.26770	14	0.08000	2	20
8	8.4650	10.43712	43	0.21000	6	92
9	8.8600	9.97267	50	0.16000	7	71
10	9.5350	9.26815	50	0.09000	7	92
11	10.3750	8.51957	43	0.09000	6	43
12	10.7050	8.25767	50	0.19000	7	126
13	11.3400	7.79666	64	0.12000	9	96
14	11.8800	7.44345	29	0.06000	4	30
15	12.2200	7.23710	7	0.00000	1	0
16	12.5700	7.03637	29	0.14000	4	32
17	13.2800	6.66173	21	0.04000	3	10
18	14.0633	6.29240	29	0.11330	4	24
19	14.6600	6.03759	14	0.04000	2	10
20	14.7600	5.99691	7	0.00000	1	0
21	14.9550	5.91915	14	0.03000	2	6
22	15.3450	5.76958	64	0.07000	9	56
23	15.8566	5.58456	50	0.08670	7	68
24	16.2800	5.44027	21	0.00000	3	0
25	16.9400	5.22976	43	0.08000	6	44
26	17.3400	5.11001	21	0.04000	3	32
27	17.9675	4.93294	43	0.09500	6	41
28	18.4983	4.79257	29	0.06330	4	26
29	18.7400	4.73130	7	0.00000	1	0
30	19.1033	4.64213	43	0.07330	6	36
31	19.5200	4.54397	29	0.08000	4	26
32	19.9925	4.43763	57	0.16500	8	87
33	20.3550	4.35941	50	0.05000	7	39
34	20.7566	4.27596	71	0.11330	10	97
35	21.0666	4.21373	50	0.06670	7	48
36	21.5200	4.12597	50	0.16000	7	76
37	21.7900	4.07545	57	0.18000	8	81
38	22.2200	3.99755	1	0.00000	0	0
39	22.4400	3.95885	21	0.04000	3	12
40	22.5500	3.93979	43	0.10000	6	71
41	23.2800	3.81787	50	0.08000	7	89
42	23.7867	3.73768	43	0.12000	6	65
43	24.2650	3.66507	36	0.17000	5	66
44	24.7900	3.58863	57	0.10000	8	64
45	25.2100	3.52979	36	0.18000	5	94
46	25.6600	3.46890	1	0.00000	0	0
47	26.6333	3.34430	100	0.46670	14	349
48	27.1750	3.27885	57	0.13000	8	50
49	27.4400	3.24778	50	0.28000	7	127

peak no.	2Theta (deg)	d (Å)	I/I1	FWHM (deg)	Intensity (Counts)	Integrated Int (Counts)
50	28.2700	3.15429	43	0.12000	6	52
51	28.6400	3.11437	14	0.04000	2	11
52	29.3350	3.04215	43	0.11000	6	61
53	29.6400	3.01153	43	0.08000	6	43
54	30.0900	2.96751	43	0.10000	6	37
55	30.7900	2.90162	29	0.10000	4	39
56	31.0800	2.87521	21	0.02000	3	10
57	31.4233	2.84457	64	0.12670	9	104
58	31.9600	2.79802	50	0.04000	7	32
59	32.4250	2.75895	29	0.05000	4	17
60	32.8950	2.72059	43	0.13000	6	54
61	33.6400	2.66203	7	0.00000	1	0
62	33.9816	2.63604	29	0.10330	4	29
63	34.2866	2.61329	29	0.09330	4	31
64	34.8350	2.57339	57	0.17000	8	103
65	35.3600	2.53638	36	0.04000	5	32
66	35.8700	2.50148	21	0.06000	3	19
67	36.2300	2.47744	36	0.06000	5	32
68	36.7550	2.44325	29	0.09000	4	29
69	37.4950	2.39672	43	0.13000	6	63
70	37.8500	2.37505	21	0.06000	3	27
71	38.2700	2.34994	43	0.14000	6	72
72	38.8200	2.31791	36	0.08000	5	46
73	39.3600	2.28734	29	0.08000	4	29
74	39.7500	2.26579	29	0.06000	4	26
75	40.2650	2.23799	43	0.17000	6	86
76	41.0000	2.19955	50	0.10000	7	46
77	41.3000	2.18427	43	0.10660	6	37
78	41.6333	2.16755	29	0.06670	4	22
79	42.3500	2.13251	21	0.06000	3	18
80	43.1200	2.09619	36	0.12000	5	39
81	43.5200	2.07785	43	0.16000	6	105
82	44.6000	2.03001	7	0.00000	1	0
83	45.1850	2.00508	43	0.15000	6	55
84	45.8200	1.97876	36	0.08000	5	33
85	46.1800	1.96417	43	0.20000	6	72
86	46.9500	1.93373	50	0.22000	7	126
87	47.7500	1.90318	36	0.10000	5	39
88	48.0400	1.89237	14	0.02000	2	11
89	48.3500	1.88096	29	0.10000	4	20
90	48.7550	1.86628	29	0.21000	4	50
91	49.2450	1.84885	36	0.15000	5	84
92	49.8600	1.82747	7	0.00000	1	0
93	50.3333	1.81139	29	0.14670	4	29
94	50.6800	1.79981	29	0.12000	4	28
95	51.2400	1.78145	14	0.08000	2	30
96	51.4800	1.77371	1	0.00000	0	0
97	51.9000	1.76034	50	0.16000	7	86
98	52.4000	1.74471	21	0.04000	3	15
99	52.7200	1.73487	21	0.04000	3	22
100	53.2800	1.71795	21	0.04000	3	15
101	53.7400	1.70433	21	0.08000	3	25
102	54.4000	1.68520	7	0.00000	1	0
103	55.2700	1.66071	14	0.06000	2	9
104	55.6200	1.65109	14	0.08000	2	14
105	56.0000	1.64078	7	0.00000	1	0
106	56.3350	1.63182	29	0.07000	4	19
107	56.7200	1.62165	7	0.00000	1	0
108	57.1400	1.61072	21	0.04000	3	16
109	57.5850	1.59933	29	0.17000	4	57
110	57.9800	1.58937	1	0.00000	0	0
111	58.5400	1.57549	21	0.08000	3	33

peak no.	2Theta (deg)	d (Å)	I/I1	FWHM (deg)	Intensity (Counts)	Integrated Int (Counts)
112	59.0100	1.56406	21	0.10000	3	29
113	59.7900	1.54551	29	0.14000	4	28
114	60.1166	1.53789	29	0.08670	4	18
115	60.6650	1.52529	29	0.11000	4	33
116	61.0650	1.51626	21	0.03000	3	22
117	61.5400	1.50569	21	0.08000	3	17
118	61.9200	1.49736	1	0.00000	0	0
119	62.5450	1.48389	14	0.05000	2	8
120	62.8700	1.47700	14	0.06000	2	7
121	63.2200	1.46966	21	0.04000	3	18
122	63.7950	1.45779	21	0.03000	3	7
123	64.4700	1.44415	43	0.14000	6	52
124	65.2200	1.42935	36	0.12000	5	45
125	65.5800	1.42237	7	0.00000	1	0
126	65.8700	1.41681	14	0.06000	2	17
127	66.4300	1.40622	29	0.14000	4	30
128	66.9400	1.39674	29	0.12000	4	29
129	67.6650	1.38352	36	0.17000	5	56
130	68.1200	1.37539	7	0.00000	1	0
131	68.5000	1.36868	14	0.04000	2	8
132	69.1600	1.35722	7	0.00000	1	0
133	69.7100	1.34785	21	0.14000	3	32
134	70.2000	1.33964	14	0.16000	2	19
135	70.5200	1.33434	21	0.08000	3	22
136	71.1900	1.32342	29	0.18000	4	35
137	71.5650	1.31741	21	0.07000	3	16
138	72.2750	1.30620	21	0.05000	3	11
139	72.6000	1.30115	21	0.12000	3	23
140	73.4250	1.28856	50	0.17000	7	72
141	73.8950	1.28152	36	0.25000	5	62
142	74.3750	1.27443	43	0.17000	6	45
143	74.7600	1.26882	36	0.08000	5	24
144	75.1400	1.26335	1	0.00000	0	0
145	75.3800	1.25992	1	0.00000	0	0
146	76.2800	1.24728	1	0.00000	0	0
147	77.3000	1.23335	14	0.12000	2	12
148	78.5700	1.21656	29	0.10000	4	63
149	79.2050	1.20839	21	0.11000	3	31
150	79.6900	1.20225	14	0.06000	2	17

*** Basic Data Process ***

Data Information

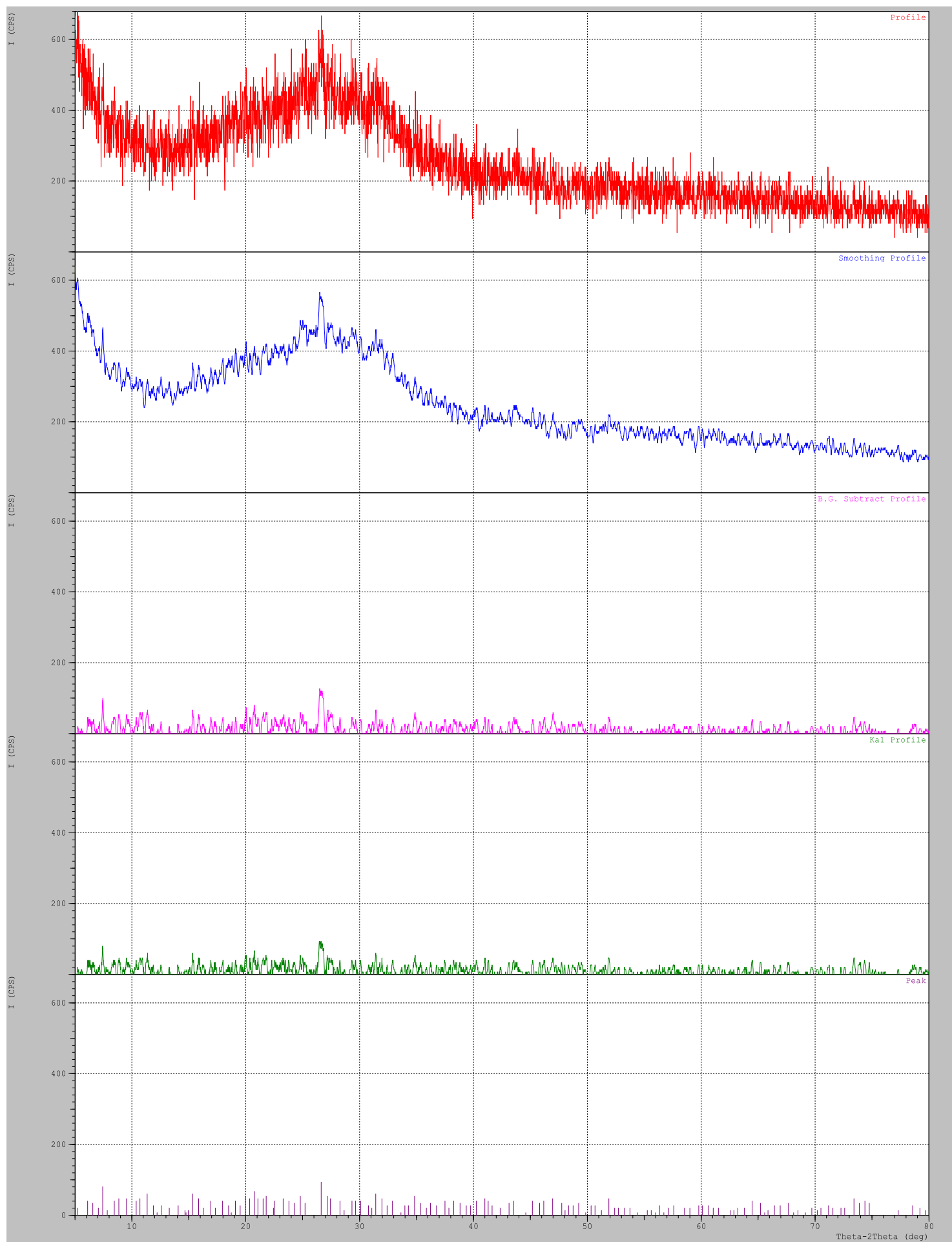
Group : 29-12-2021
Data : Dr-abdelhamed-Sameh-3
Sample Nmae : Dr-abdelhamed-Sameh3
Comment :
Date & Time : 12-29-21 11:53:07

Measurement Condition

X-ray tube
target : Cu
voltage : 40.0 (kV)
current : 30.0 (mA)
Slits
Auto Slit : not Used
divergence slit : 1.00000 (deg)
scatter slit : 1.00000 (deg)
receiving slit : 0.30000 (mm)
Scanning
drive axis : Theta-2Theta
scan range : 5.0000 - 80.0000 (deg)
scan mode : Continuous Scan
scan speed : 8.0000 (deg/min)
sampling pitch : 0.0200 (deg)
preset time : 0.15 (sec)

Data Process Condition

Smoothing [MANUAL]
smoothing points : 17
B.G.Subtruction [MANUAL]
sampling points : 19
repeat times : 30
Ka1-a2 Separate [MANUAL]
Ka1 a2 ratio : 50 (%)
Peak Search [AUTO]
differential points : 25
FWHM threshold : 0.050 (deg)
intensity threshold : 30 (par mil)
FWHM ratio (n-1)/n : 2
System error Correction [NO]
Precise peak Correction [NO]



*** Basic Data Process ***

Group : 29-12-2021
Data : Dr-abdelhamed-Sameh-4

Strongest 3 peaks

no. peak	2Theta (deg)	d (A)	I/I1	FWHM (deg)	Intensity (Counts)	Integrated Int (Counts)
1 56	26.6583	3.34122	100	0.22330	13	186
2 74	32.3650	2.76393	77	0.09000	10	56
3 65	29.5666	3.01884	69	0.14670	9	77

Peak Data List

peak no.	2Theta (deg)	d (A)	I/I1	FWHM (deg)	Intensity (Counts)	Integrated Int (Counts)
1	5.2400	16.85127	46	0.04000	6	23
2	5.4900	16.08445	69	0.18000	9	107
3	5.8350	15.13420	15	0.07000	2	8
4	6.0400	14.62099	8	0.00000	1	0
5	6.4700	13.65020	23	0.04000	3	8
6	6.9650	12.68116	15	0.05000	2	6
7	7.2600	12.16652	8	0.00000	1	0
8	8.1250	10.87309	15	0.03000	2	5
9	8.4250	10.48658	23	0.03000	3	8
10	9.0050	9.81241	38	0.09000	5	40
11	9.3450	9.45616	23	0.11000	3	21
12	9.4850	9.31690	46	0.15000	6	53
13	9.9250	8.90482	54	0.07000	7	53
14	10.3600	8.53188	15	0.12000	2	18
15	10.5550	8.37469	15	0.03000	2	3
16	10.8750	8.12897	46	0.13000	6	55
17	11.2633	7.84958	31	0.03330	4	23
18	11.6066	7.61816	54	0.09330	7	47
19	11.9100	7.42477	54	0.06000	7	41
20	12.0900	7.31463	23	0.06000	3	15
21	12.4050	7.12959	23	0.05000	3	9
22	12.8433	6.88724	54	0.11330	7	66
23	13.1866	6.70870	54	0.13330	7	69
24	13.7100	6.45374	23	0.06000	3	31
25	14.0700	6.28941	54	0.14000	7	97
26	14.3500	6.16732	38	0.06000	5	28
27	14.7700	5.99287	54	0.16000	7	82
28	15.1516	5.84279	38	0.04330	5	24
29	15.7100	5.63635	23	0.06000	3	17
30	16.1500	5.48376	31	0.10000	4	31
31	16.5766	5.34359	46	0.08670	6	47
32	17.0466	5.19730	31	0.05330	4	14
33	17.5566	5.04746	38	0.07330	5	34
34	17.8800	4.95688	15	0.04000	2	5
35	18.3500	4.83097	38	0.06000	5	28
36	18.6566	4.75226	38	0.07330	5	33
37	19.1350	4.63451	38	0.09000	5	40
38	19.4400	4.56248	15	0.06000	2	9
39	19.8250	4.47474	15	0.03000	2	3
40	20.1200	4.40979	15	0.04000	2	5
41	20.4900	4.33099	46	0.06000	6	18
42	20.6300	4.30192	38	0.12000	5	38
43	21.0350	4.21999	15	0.09000	2	10
44	21.2550	4.17681	15	0.03000	2	4
45	21.7400	4.08471	8	0.00000	1	0
46	22.4600	3.95537	15	0.08000	2	11
47	22.9250	3.87618	15	0.03000	2	4
48	23.3050	3.81383	38	0.09000	5	37
49	23.8100	3.73407	31	0.10000	4	32

peak no.	2Theta (deg)	d (Å)	I/I1	FWHM (deg)	Intensity (Counts)	Integrated Int (Counts)
50	24.0850	3.69206	15	0.03000	2	6
51	24.3850	3.64731	23	0.03000	3	14
52	24.8466	3.58058	38	0.09330	5	39
53	25.0633	3.55012	31	0.03330	4	19
54	25.4550	3.49637	46	0.11000	6	43
55	26.1600	3.40372	38	0.08000	5	35
56	26.6583	3.34122	100	0.22330	13	186
57	27.0200	3.29730	23	0.04000	3	9
58	27.6150	3.22760	31	0.07000	4	16
59	27.7600	3.21107	15	0.04000	2	9
60	28.0600	3.17741	46	0.08000	6	35
61	28.4650	3.13312	31	0.07000	4	26
62	28.6400	3.11437	1	0.00000	0	0
63	29.0500	3.07134	46	0.28000	6	70
64	29.2800	3.04774	62	0.14000	8	54
65	29.5666	3.01884	69	0.14670	9	77
66	29.9300	2.98301	38	0.06000	5	26
67	30.0833	2.96816	38	0.03330	5	14
68	30.3800	2.93984	54	0.08000	7	36
69	30.5800	2.92107	8	0.00000	1	0
70	30.7800	2.90254	31	0.05340	4	15
71	31.1000	2.87340	23	0.04000	3	22
72	31.7266	2.81807	46	0.09330	6	49
73	32.1600	2.78107	31	0.06660	4	34
74	32.3650	2.76393	77	0.09000	10	56
75	32.6200	2.74290	38	0.04000	5	24
76	32.9266	2.71806	38	0.05330	5	20
77	33.2175	2.69491	54	0.09500	7	44
78	33.5050	2.67244	23	0.03000	3	11
79	33.8100	2.64903	15	0.06000	2	10
80	34.0850	2.62828	15	0.03000	2	7
81	34.4800	2.59907	38	0.12000	5	40
82	34.7166	2.58190	31	0.16670	4	35
83	35.0700	2.55669	23	0.06000	3	17
84	35.5900	2.52051	31	0.14000	4	35
85	35.8633	2.50193	38	0.11330	5	42
86	36.1400	2.48341	46	0.12000	6	42
87	36.5550	2.45616	46	0.05000	6	52
88	37.1200	2.42006	31	0.08000	4	36
89	37.3200	2.40755	23	0.06000	3	14
90	37.6200	2.38904	15	0.04000	2	11
91	38.1666	2.35607	31	0.18670	4	51
92	39.0800	2.30308	31	0.04000	4	22
93	39.3400	2.28846	23	0.12000	3	35
94	39.6800	2.26963	8	0.00000	1	0
95	39.9450	2.25518	23	0.05000	3	11
96	40.2350	2.23959	15	0.03000	2	3
97	40.6200	2.21925	23	0.08000	3	21
98	41.4750	2.17545	38	0.07000	5	31
99	41.7800	2.16028	8	0.00000	1	0
100	42.0500	2.14703	15	0.06000	2	12
101	42.5400	2.12342	8	0.00000	1	0
102	43.0800	2.09805	23	0.04000	3	18
103	43.3250	2.08675	31	0.07000	4	25
104	43.5650	2.07581	31	0.13000	4	26
105	43.7900	2.06566	46	0.10000	6	37
106	44.3200	2.04218	15	0.00000	2	0
107	44.7500	2.02355	15	0.06000	2	12
108	45.0800	2.00950	15	0.08000	2	15
109	45.4450	1.99421	38	0.09000	5	34
110	45.6450	1.98594	31	0.07000	4	28
111	46.1700	1.96457	31	0.22000	4	45

peak no.	2Theta (deg)	d (Å)	I/I1	FWHM (deg)	Intensity (Counts)	Integrated Int (Counts)
112	46.4800	1.95219	31	0.08000	4	22
113	46.9250	1.93470	54	0.13000	7	50
114	47.2050	1.92388	38	0.15000	5	53
115	47.5850	1.90940	15	0.03000	2	6
116	47.9400	1.89608	8	0.00000	1	0
117	48.2750	1.88371	31	0.15000	4	40
118	48.5400	1.87404	8	0.00000	1	0
119	48.8600	1.86251	23	0.04000	3	16
120	49.1500	1.85220	15	0.06000	2	12
121	49.5800	1.83714	15	0.04000	2	12
122	49.9500	1.82439	15	0.06000	2	11
123	50.1300	1.81826	15	0.14000	2	17
124	50.5000	1.80581	23	0.04000	3	13
125	50.7666	1.79695	31	0.06670	4	22
126	50.9300	1.79156	46	0.10000	6	52
127	51.1200	1.78535	15	0.00000	2	0
128	51.5000	1.77307	38	0.08000	5	56
129	51.9050	1.76018	54	0.17000	7	95
130	52.2750	1.74859	46	0.17000	6	50
131	52.5850	1.73901	31	0.13000	4	26
132	52.9800	1.72697	8	0.00000	1	0
133	53.3200	1.71676	23	0.08000	3	20
134	53.5400	1.71022	15	0.04000	2	8
135	53.9050	1.69950	23	0.03000	3	13
136	54.5100	1.68206	23	0.06000	3	15
137	54.8450	1.67257	46	0.15000	6	55
138	55.2200	1.66210	23	0.04000	3	13
139	55.4600	1.65547	38	0.12000	5	41
140	55.7200	1.64836	8	0.00000	1	0
141	55.9900	1.64105	15	0.06000	2	13
142	56.4200	1.62956	23	0.08000	3	23
143	56.7900	1.61982	31	0.16000	4	32
144	57.0800	1.61227	31	0.12000	4	23
145	57.3300	1.60584	31	0.10000	4	27
146	57.5600	1.59997	31	0.08000	4	23
147	57.8200	1.59339	1	0.00000	0	0
148	57.9900	1.58912	15	0.04000	2	5
149	58.3100	1.58116	54	0.14000	7	61
150	58.7150	1.57122	46	0.23000	6	62
151	59.1200	1.56141	31	0.12000	4	24
152	59.4500	1.55353	31	0.10000	4	38
153	59.8450	1.54422	23	0.03000	3	19
154	60.1100	1.53804	15	0.06000	2	8
155	60.4000	1.53135	8	0.00000	1	0
156	60.8300	1.52155	15	0.06000	2	7
157	61.1400	1.51458	31	0.08000	4	26
158	61.7650	1.50074	31	0.11000	4	29
159	62.2300	1.49064	23	0.06000	3	25
160	62.4750	1.48538	15	0.11000	2	16
161	62.7150	1.48027	23	0.05000	3	16
162	63.3300	1.46737	23	0.10000	3	29
163	63.6950	1.45984	23	0.05000	3	25
164	64.0000	1.45362	38	0.08000	5	34
165	64.2300	1.44897	31	0.18000	4	46
166	64.5600	1.44235	8	0.00000	1	0
167	64.8700	1.43621	46	0.14000	6	58
168	65.2800	1.42818	31	0.12000	4	36
169	65.5900	1.42218	23	0.10000	3	23
170	65.9100	1.41604	38	0.10000	5	29
171	66.2500	1.40960	15	0.06000	2	10
172	66.5600	1.40378	23	0.04000	3	15
173	66.8100	1.39914	38	0.10000	5	48

peak no.	2Theta (deg)	d (Å)	I/I1	FWHM (deg)	Intensity (Counts)	Integrated Int (Counts)
174	67.1550	1.39279	23	0.03000	3	9
175	67.3800	1.38868	8	0.00000	1	0
176	67.7066	1.38277	54	0.09330	7	55
177	67.9600	1.37823	46	0.16000	6	50
178	68.4200	1.37009	31	0.20000	4	40
179	68.8300	1.36292	31	0.22000	4	46
180	69.2700	1.35534	31	0.06000	4	28
181	69.8000	1.34633	23	0.04000	3	25
182	70.2033	1.33959	31	0.11330	4	36
183	70.5300	1.33418	31	0.10000	4	34
184	70.8400	1.32910	31	0.12000	4	38
185	71.1600	1.32391	15	0.04000	2	8
186	71.4200	1.31972	23	0.08000	3	23
187	71.7400	1.31462	15	0.08000	2	17
188	71.9200	1.31177	8	0.00000	1	0
189	72.2000	1.30737	8	0.00000	1	0
190	72.9700	1.29547	23	0.14000	3	26
191	73.8600	1.28204	8	0.00000	1	0
192	74.1900	1.27715	23	0.10000	3	30
193	74.6300	1.27071	15	0.10000	2	16
194	74.8800	1.26709	1	0.00000	0	0
195	75.2200	1.26220	31	0.20000	4	38
196	75.5800	1.25708	1	0.00000	0	0
197	75.9350	1.25208	46	0.19000	6	71
198	76.3000	1.24700	15	0.04000	2	6
199	76.5750	1.24321	31	0.13000	4	34
200	76.9850	1.23760	31	0.17000	4	40
201	77.4300	1.23160	15	0.06000	2	15
202	77.9600	1.22455	23	0.12000	3	26
203	78.3200	1.21982	15	0.04000	2	9
204	78.9000	1.21230	15	0.04000	2	6
205	79.1200	1.20948	15	0.12000	2	23
206	79.4050	1.20585	15	0.03000	2	6

*** Basic Data Process ***

Data Information

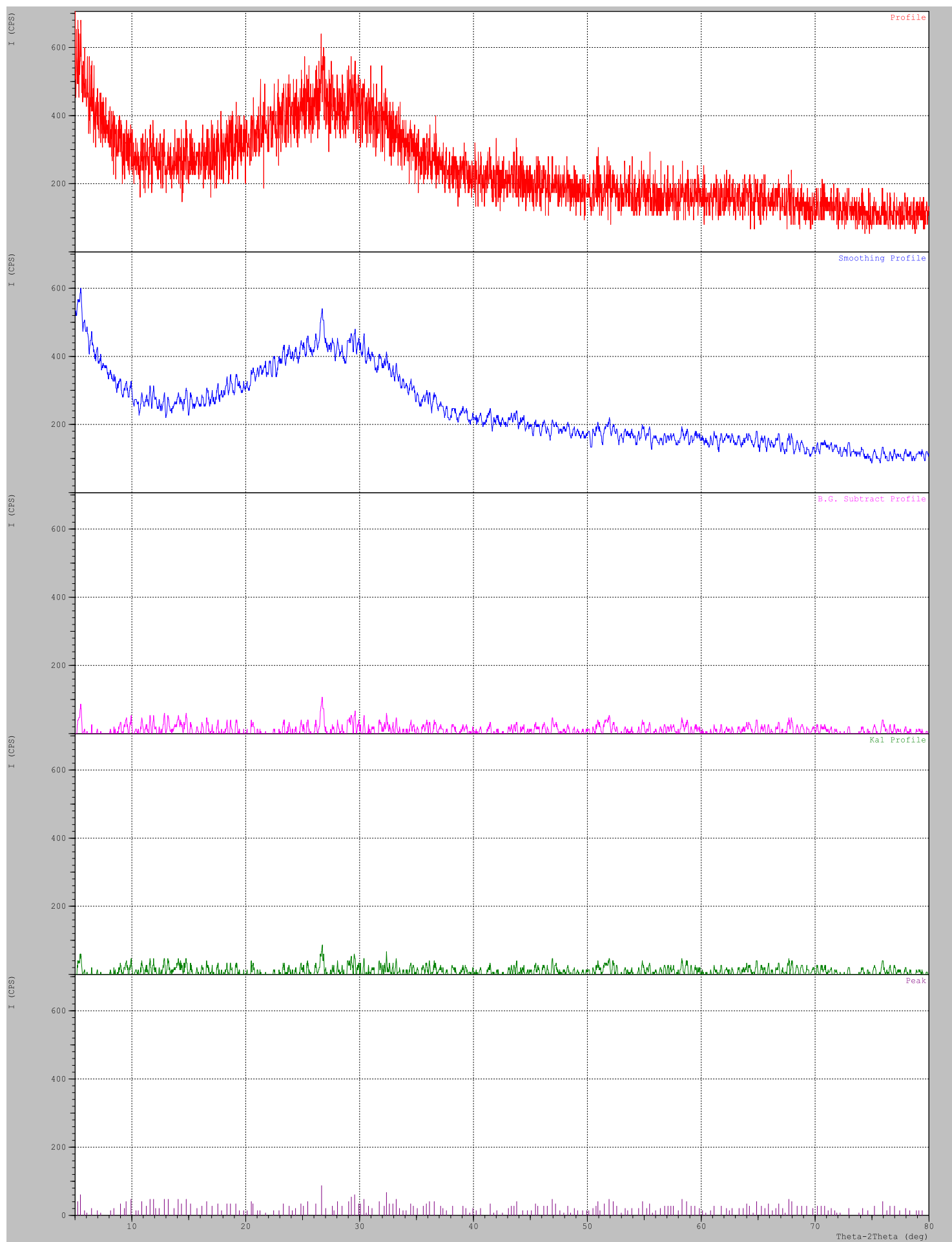
Group : 29-12-2021
Data : Dr-abdelhamed-Sameh-4
Sample Nmae : Dr-abdelhamed-Sameh4
Comment :
Date & Time : 12-29-21 12:14:05

Measurement Condition

X-ray tube
target : Cu
voltage : 40.0 (kV)
current : 30.0 (mA)
Slits
Auto Slit : not Used
divergence slit : 1.00000 (deg)
scatter slit : 1.00000 (deg)
receiving slit : 0.30000 (mm)
Scanning
drive axis : Theta-2Theta
scan range : 5.0000 - 80.0000 (deg)
scan mode : Continuous Scan
scan speed : 8.0000 (deg/min)
sampling pitch : 0.0200 (deg)
preset time : 0.15 (sec)

Data Process Condition

Smoothing [MANUAL]
smoothing points : 17
B.G.Subtruction [MANUAL]
sampling points : 19
repeat times : 30
Ka1-a2 Separate [MANUAL]
Ka1 a2 ratio : 50 (%)
Peak Search [AUTO]
differential points : 13
FWHM threshold : 0.050 (deg)
intensity threshold : 30 (par mil)
FWHM ratio (n-1)/n : 2
System error Correction [NO]
Precise peak Correction [NO]



*** Basic Data Process ***

Group : 29-12-2021
Data : Dr-abdelhamed-Sameh-5

Strongest 3 peaks

no.	peak	2Theta	d	I/I1	FWHM	Intensity	Integrated Int
	no.	(deg)	(Å)		(deg)	(Counts)	(Counts)
1	52	26.3800	3.37583	100	0.16000	18	159
2	53	26.6200	3.34594	78	0.20000	14	160
3	59	29.6250	3.01303	78	0.17000	14	159

Peak Data List

peak	2Theta	d	I/I1	FWHM	Intensity	Integrated Int
no.	(deg)	(Å)		(deg)	(Counts)	(Counts)
1	5.3533	16.49487	61	0.10670	11	85
2	5.6900	15.51954	11	0.08000	2	12
3	5.9700	14.79226	17	0.06000	3	17
4	6.4200	13.75640	17	0.02000	3	6
5	6.8550	12.88440	17	0.03000	3	6
6	7.2750	12.14147	11	0.03000	2	8
7	7.4400	11.87257	6	0.00000	1	0
8	7.5800	11.65360	6	0.00000	1	0
9	8.2600	10.69569	33	0.12000	6	46
10	8.6925	10.16446	39	0.17500	7	67
11	9.0433	9.77094	22	0.03330	4	10
12	9.3400	9.46121	6	0.00000	1	0
13	9.7950	9.02271	17	0.03000	3	12
14	10.3166	8.56767	17	0.04670	3	10
15	10.6000	8.33923	6	0.00000	1	0
16	10.9200	8.09557	17	0.04000	3	17
17	11.2150	7.88328	17	0.03000	3	10
18	11.6733	7.57478	28	0.05330	5	31
19	11.9900	7.37541	33	0.14000	6	55
20	12.6066	7.01602	22	0.09330	4	34
21	12.8700	6.87302	22	0.06000	4	21
22	13.1600	6.72220	17	0.04000	3	14
23	13.7800	6.42112	44	0.20000	8	117
24	14.3800	6.15452	6	0.00000	1	0
25	14.7766	5.99021	22	0.07330	4	37
26	15.0800	5.87037	28	0.04000	5	29
27	15.4450	5.73245	28	0.13000	5	61
28	15.7666	5.61624	28	0.10670	5	36
29	16.0950	5.50238	33	0.17000	6	52
30	16.7950	5.27459	17	0.03000	3	9
31	17.2950	5.12321	11	0.03000	2	3
32	17.7800	4.98454	17	0.04000	3	10
33	18.0250	4.91733	17	0.03000	3	16
34	18.4333	4.80932	44	0.21330	8	114
35	18.7900	4.71882	17	0.04000	3	14
36	19.3666	4.57961	44	0.22670	8	110
37	19.6200	4.52103	11	0.00000	2	0
38	19.9100	4.45583	22	0.14000	4	55
39	20.1900	4.39466	56	0.14000	10	109
40	20.7266	4.28208	22	0.13330	4	69
41	21.3000	4.16809	28	0.08000	5	62
42	21.7950	4.07453	28	0.07000	5	38
43	22.2966	3.98398	22	0.08670	4	49
44	22.6600	3.92091	17	0.04000	3	22
45	23.3500	3.80658	28	0.06000	5	38
46	23.8250	3.73175	28	0.07000	5	49
47	24.5600	3.62171	39	0.18000	7	92
48	24.8975	3.57338	33	0.03500	6	15
49	25.2150	3.52910	17	0.03000	3	7

peak no.	2Theta (deg)	d (Å)	I/I1	FWHM (deg)	Intensity (Counts)	Integrated Int (Counts)
50	25.5350	3.48559	17	0.05000	3	10
51	25.9500	3.43078	39	0.10000	7	74
52	26.3800	3.37583	100	0.16000	18	159
53	26.6200	3.34594	78	0.20000	14	160
54	26.9350	3.30752	33	0.15000	6	63
55	27.2766	3.26687	22	0.04670	4	20
56	27.8300	3.20315	44	0.08660	8	72
57	28.7350	3.10429	17	0.05000	3	15
58	29.2333	3.05250	67	0.30670	12	164
59	29.6250	3.01303	78	0.17000	14	159
60	30.1566	2.96111	22	0.07330	4	17
61	30.5800	2.92107	33	0.08000	6	28
62	30.8433	2.89673	33	0.20670	6	73
63	31.3675	2.84951	44	0.09500	8	64
64	31.6800	2.82211	67	0.12000	12	134
65	32.0550	2.78994	39	0.05000	7	41
66	32.5300	2.75028	28	0.14000	5	68
67	33.0250	2.71018	22	0.09000	4	34
68	33.2800	2.69000	11	0.04000	2	15
69	34.1900	2.62045	17	0.06000	3	13
70	34.6800	2.58454	6	0.00000	1	0
71	35.3800	2.53499	33	0.12000	6	89
72	35.9250	2.49778	33	0.11000	6	47
73	36.2200	2.47811	33	0.12000	6	74
74	36.7900	2.44101	22	0.06000	4	33
75	37.4800	2.39764	17	0.04000	3	19
76	38.1350	2.35795	22	0.07000	4	19
77	38.4800	2.33760	6	0.00000	1	0
78	38.8400	2.31676	11	0.04000	2	4
79	39.1200	2.30082	6	0.00000	1	0
80	39.5850	2.27486	11	0.03000	2	6
81	39.8600	2.25979	6	0.00000	1	0
82	40.3800	2.23188	17	0.08000	3	15
83	40.7400	2.21299	6	0.00000	1	0
84	41.0500	2.19699	11	0.06000	2	14
85	41.6050	2.16896	22	0.11000	4	38
86	42.0533	2.14687	39	0.10670	7	46
87	42.3100	2.13443	33	0.14000	6	43
88	42.6100	2.12010	28	0.14000	5	59
89	43.3000	2.08790	44	0.16000	8	94
90	43.8400	2.06342	33	0.28000	6	125
91	44.1350	2.05031	44	0.21000	8	90
92	44.4500	2.03651	28	0.06000	5	26
93	44.7350	2.02420	22	0.15000	4	35
94	44.9850	2.01353	28	0.11000	5	35
95	45.3800	1.99691	17	0.04000	3	18
96	45.9600	1.97306	17	0.04000	3	17
97	46.7000	1.94350	11	0.12000	2	15
98	46.9900	1.93218	22	0.14000	4	35
99	47.3400	1.91871	28	0.08000	5	35
100	47.5900	1.90921	22	0.10000	4	23
101	48.0100	1.89348	22	0.14000	4	34
102	48.3400	1.88133	17	0.12000	3	21
103	48.8600	1.86251	22	0.12000	4	24
104	49.1033	1.85385	33	0.11330	6	42
105	49.5000	1.83992	6	0.00000	1	0
106	50.2600	1.81386	22	0.04000	4	21
107	50.7650	1.79700	39	0.09000	7	45
108	51.0600	1.78731	22	0.04000	4	21
109	51.4000	1.77628	22	0.08000	4	40
110	51.9650	1.75829	44	0.21000	8	122
111	52.8600	1.73061	22	0.10000	4	19

peak no.	2Theta (deg)	d (Å)	I/I1	FWHM (deg)	Intensity (Counts)	Integrated Int (Counts)
112	53.1400	1.72215	17	0.04000	3	14
113	53.7800	1.70315	22	0.04000	4	22
114	54.3600	1.68634	11	0.04000	2	12
115	54.8100	1.67356	28	0.10000	5	32
116	55.1000	1.66543	11	0.04000	2	8
117	55.7250	1.64822	39	0.13000	7	63
118	56.0750	1.63876	11	0.11000	2	17
119	56.3800	1.63062	6	0.00000	1	0
120	57.4800	1.60200	17	0.10000	3	30
121	58.1150	1.58600	28	0.15000	5	53
122	58.3950	1.57906	17	0.05000	3	13
123	58.6600	1.57256	17	0.08000	3	18
124	58.9750	1.56491	22	0.09000	4	20
125	59.5750	1.55057	22	0.17000	4	56
126	60.1700	1.53665	22	0.14000	4	29
127	60.5100	1.52883	22	0.06000	4	30
128	61.0200	1.51727	28	0.08000	5	38
129	61.3633	1.50960	28	0.07330	5	34
130	61.8500	1.49888	28	0.14000	5	52
131	62.1850	1.49161	33	0.13000	6	41
132	62.5350	1.48410	17	0.07000	3	16
133	63.0600	1.47300	22	0.10000	4	28
134	63.4300	1.46530	11	0.06000	2	10
135	63.8600	1.45647	11	0.04000	2	11
136	64.2000	1.44957	17	0.06000	3	12
137	64.4800	1.44395	17	0.08000	3	22
138	64.8000	1.43759	17	0.04000	3	12
139	65.1100	1.43149	22	0.10000	4	33
140	65.6700	1.42064	28	0.14000	5	52
141	66.0000	1.41433	11	0.08000	2	13
142	66.2600	1.40941	11	0.04000	2	6
143	67.0200	1.39526	6	0.00000	1	0
144	67.8350	1.38047	17	0.03000	3	12
145	68.2150	1.37370	11	0.05000	2	9
146	68.6600	1.36588	11	0.04000	2	9
147	68.9300	1.36119	17	0.06000	3	16
148	69.2400	1.35585	6	0.00000	1	0
149	70.6600	1.33204	17	0.04000	3	15
150	70.9733	1.32693	22	0.13330	4	28
151	71.3200	1.32133	11	0.08000	2	12
152	71.6000	1.31685	11	0.08000	2	18
153	72.0200	1.31020	6	0.00000	1	0
154	72.6250	1.30077	17	0.03000	3	17
155	73.0000	1.29501	6	0.00000	1	0
156	73.8700	1.28189	17	0.06000	3	15
157	74.2200	1.27671	6	0.00000	1	0
158	74.7100	1.26955	17	0.06000	3	21
159	75.5650	1.25729	11	0.05000	2	8
160	75.9400	1.25201	6	0.00000	1	0
161	76.5800	1.24314	17	0.04000	3	18
162	76.9800	1.23767	22	0.08000	4	31
163	77.4350	1.23153	11	0.05000	2	7
164	78.0400	1.22349	11	0.04000	2	9
165	78.3400	1.21956	6	0.00000	1	0
166	78.7350	1.21442	17	0.07000	3	23
167	79.2400	1.20795	17	0.08000	3	23
168	79.5650	1.20383	22	0.17000	4	44

*** Basic Data Process ***

Data Information

Group : 29-12-2021
Data : Dr-abdelhamed-Sameh-5
Sample Nmae : Dr-abdelhamed-Sameh5
Comment :
Date & Time : 12-29-21 12:33:27

Measurement Condition

X-ray tube
target : Cu
voltage : 40.0 (kV)
current : 30.0 (mA)
Slits
Auto Slit : not Used
divergence slit : 1.00000 (deg)
scatter slit : 1.00000 (deg)
receiving slit : 0.30000 (mm)
Scanning
drive axis : Theta-2Theta
scan range : 5.0000 - 80.0000 (deg)
scan mode : Continuous Scan
scan speed : 8.0000 (deg/min)
sampling pitch : 0.0200 (deg)
preset time : 0.15 (sec)

Data Process Condition

Smoothing [MANUAL]
smoothing points : 17
B.G.Subtruction [MANUAL]
sampling points : 19
repeat times : 30
Ka1-a2 Separate [MANUAL]
Ka1 a2 ratio : 50 (%)
Peak Search [AUTO]
differential points : 21
FWHM threshold : 0.050 (deg)
intensity threshold : 30 (par mil)
FWHM ratio (n-1)/n : 2
System error Correction [NO]
Precise peak Correction [NO]

< Group: 29-12-2021 Data: Dr-abdelhamed-Sameh-5 >

