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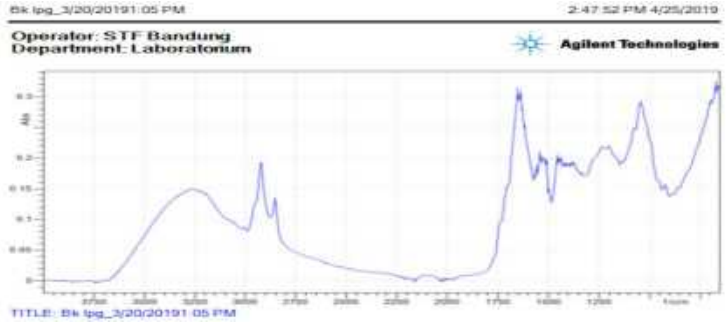

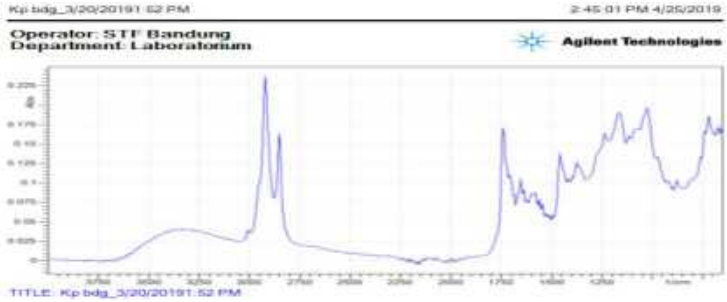

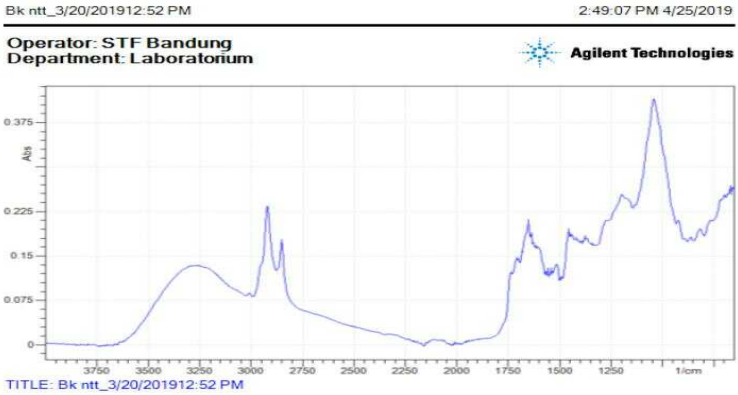

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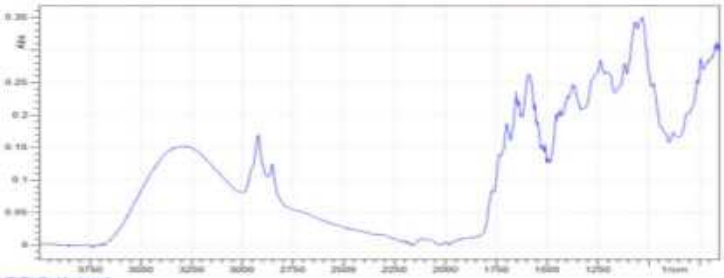
Operator: STF Bandung
Department: Laboratorium

Agilent Technologies



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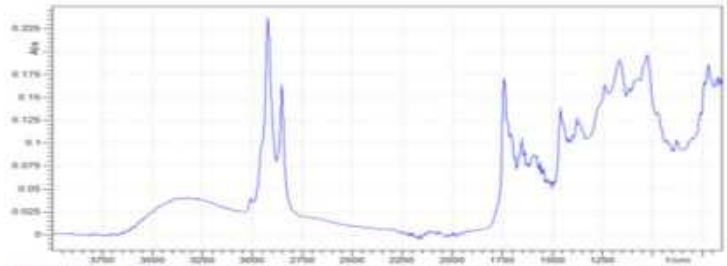
Department: Laboratorium

Agilent Technologies



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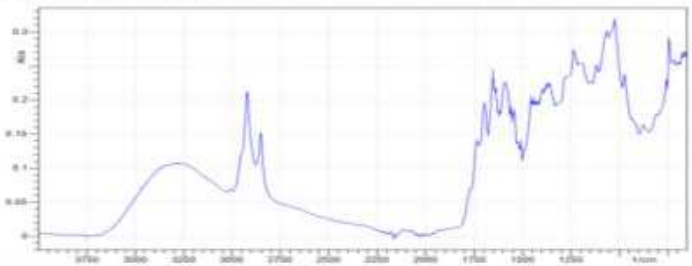
Agilent Technologies



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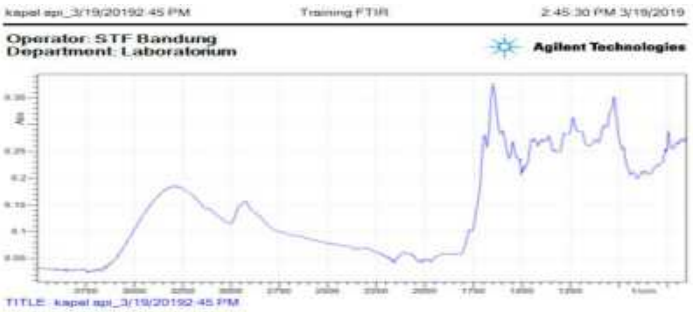
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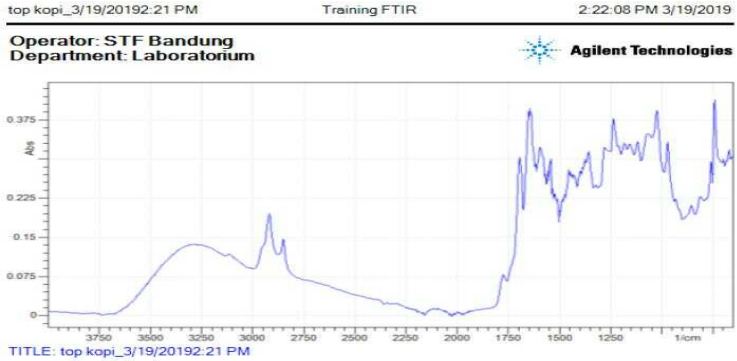
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nescafe_3/19/20193:03 PM
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Lampiran 3. Data nilai X dan Y

gelungan ke		3999.4335	3997.5698	3996.7062	3993.8425	3991.9788	3990.1152	3988.2515	3986.3878	3984.5241	3982.6605	3980.7968	3978.9331	3977.0695	397
		1	2	3	4	5	6	7	8	9	10	11	12	13	
bk bdg 1	1	-1.0828	-1.0063	-1.0378	-1.0110	-1.0136	-1.0136	-1.0084	-1.0031	-1.0011	-1.0026	-1.0063	-1.0104	-1.0125	
bk bdg 2	2	-1.0159	-1.0197	-1.0214	-1.0231	-1.0218	-1.0197	-1.0163	-1.0159	-1.0188	-1.0197	-1.0214	-1.0226	-1.0218	
bk bdg 3	3	-1.0257	-1.0199	-1.0176	-1.0159	-1.0130	-1.0112	-1.0112	-1.0130	-1.0112	-1.0112	-1.0130	-1.0176	-1.0176	
bk bdg 4	4	-1.0257	-1.0199	-1.0176	-1.0159	-1.0130	-1.0112	-1.0112	-1.0130	-1.0112	-1.0112	-1.0130	-1.0176	-1.0176	
bk bdg 5	5	-0.9944	-0.9944	-0.9928	-0.9923	-0.9923	-0.9959	-0.9994	-0.9949	-0.9928	-0.9928	-0.9908	-0.9990	-0.9988	
bk bdg 6	6	-0.9598	-0.9521	-0.9552	-0.9621	-0.9659	-0.9634	-0.9621	-0.9609	-0.9598	-0.9577	-0.9571	-0.9571	-0.9598	
bk lpg 1	7	-1.1012	-1.0981	-1.0974	-1.0985	-1.1004	-1.1000	-1.0983	-1.0993	-1.0996	-1.1004	-1.1015	-1.1030	-1.1038	
bk lpg 2	8	-1.0743	-1.0696	-1.0682	-1.0712	-1.0716	-1.0676	-1.0637	-1.0645	-1.0682	-1.0726	-1.0743	-1.0716	-1.0684	
bk lpg 3	9	-1.1532	-1.1490	-1.1475	-1.1468	-1.1448	-1.1483	-1.1448	-1.1460	-1.1534	-1.1545	-1.1552	-1.1530	-1.1515	
bk lpg 4	10	-1.1124	-1.1111	-1.1090	-1.1068	-1.1059	-1.1065	-1.1084	-1.1102	-1.1117	-1.1114	-1.1102	-1.1084	-1.1091	
bk lpg 5	11	-1.1069	-1.1063	-1.1063	-1.1066	-1.1066	-1.1069	-1.1083	-1.1085	-1.1084	-1.1104	-1.1098	-1.1089	-1.1088	
bk lpg 6	12	-1.0559	-1.0470	-1.0387	-1.0322	-1.0288	-1.0308	-1.0357	-1.0411	-1.0416	-1.0401	-1.0416	-1.0421	-1.0391	
bk mt 1	13	-1.0431	-1.0428	-1.0435	-1.0424	-1.0388	-1.0385	-1.0382	-1.0399	-1.0399	-1.0410	-1.0418	-1.0396	-1.0385	
bk mt 2	14	-1.0956	-1.0947	-1.0959	-1.0985	-1.1018	-1.1027	-1.1009	-1.0980	-1.0958	-1.0959	-1.0974	-1.0980	-1.0985	
bk mt 3	15	-1.1598	-1.0626	-1.0553	-1.0684	-1.0671	-1.0660	-1.0642	-1.0640	-1.0652	-1.0650	-1.0622	-1.0625	-1.0615	
bk mt 4	16	-1.1175	-1.1169	-1.1152	-1.1144	-1.1153	-1.1169	-1.1169	-1.1161	-1.1181	-1.1158	-1.1144	-1.1138	-1.1138	
bk mt 5	17	-1.1068	-1.1091	-1.1106	-1.1100	-1.1083	-1.1091	-1.1112	-1.1112	-1.1103	-1.1112	-1.1128	-1.1126	-1.1112	
bk mt 6	18	-1.0567	-1.0578	-1.0567	-1.0567	-1.0578	-1.0586	-1.0589	-1.0589	-1.0601	-1.0600	-1.0608	-1.0589	-1.0567	
kp bdg 1	19	-0.9085	-0.9068	-0.9045	-0.9012	-0.8988	-0.8989	-0.9028	-0.9068	-0.9085	-0.9074	-0.9078	-0.9091	-0.9085	
kp bdg 2	20	-1.0221	-1.0233	-1.0258	-1.0276	-1.0276	-1.0295	-1.0325	-1.0362	-1.0344	-1.0301	-1.0227	-1.0197	-1.0233	
kp bdg 3	21	-0.9881	-0.9891	-0.9922	-0.9967	-1.0003	-0.9988	-0.9962	-0.9957	-1.0003	-1.0008	-0.9952	-0.9896	-0.9896	
kp bdg 4	22	-0.9293	-0.9284	-0.9255	-0.9216	-0.9187	-0.9176	-0.9199	-0.9258	-0.9293	-0.9298	-0.9307	-0.9335	-0.9375	
kp bdg 5	23	-1.1250	-1.1245	-1.1255	-1.1271	-1.1261	-1.1283	-1.1150	-1.1128	-1.1155	-1.1182	-1.1229	-1.1245	-1.1224	
kp bdg 6	24	-0.8744	-0.8696	-0.8696	-0.8733	-0.8755	-0.8758	-0.8728	-0.8712	-0.8706	-0.8739	-0.8804	-0.8852	-0.8863	
kp lpg 1	25	-1.0959	-1.0955	-1.0959	-1.0968	-1.0973	-1.0973	-1.0976	-1.0980	-1.0993	-1.0980	-1.0952	-1.0925	-1.0928	
kp lpg 2	26	-0.9682	-0.9625	-0.9589	-0.9578	-0.9620	-0.9672	-0.9703	-0.9703	-0.9677	-0.9651	-0.9651	-0.9692	-0.9755	
kp lpg 3	27	-1.0238	-1.0268	-1.0285	-1.0285	-1.0196	-1.0162	-1.0179	-1.0226	-1.0276	-1.0318	-1.0293	-1.0251	-1.0226	
kp lpg 4	28	-0.8317	-0.8366	-0.8380	-0.8331	-0.8227	-0.8143	-0.8164	-0.8248	-0.8289	-0.8275	-0.8261	-0.8317	-0.8373	
kp lpg 5	29	-1.0716	-1.0731	-1.0747	-1.0755	-1.0742	-1.0719	-1.0698	-1.0698	-1.0724	-1.0763	-1.0774	-1.0751	-1.0703	
kp lpg 6	30	-1.0870	-1.0900	-1.0930	-1.0956	-1.0945	-1.0915	-1.0885	-1.0900	-1.0956	-1.0996	-1.0976	-1.0910	-1.0839	
kp mt 1	31	-1.0432	-1.0394	-1.0375	-1.0368	-1.0382	-1.0401	-1.0409	-1.0401	-1.0371	-1.0327	-1.0301	-1.0308	-1.0338	
kp mt 2	32	-1.0236	-1.0258	-1.0258	-1.0262	-1.0271	-1.0294	-1.0303	-1.0303	-1.0303	-1.0298	-1.0286	-1.0262	-1.0236	
kp mt 3	33	-1.0586	-1.0580	-1.0550	-1.0530	-1.0514	-1.0499	-1.0540	-1.0602	-1.0643	-1.0643	-1.0612	-1.0591	-1.0586	
kp mt 4	34	-1.0788	-1.0767	-1.0771	-1.0796	-1.0814	-1.0814	-1.0810	-1.0818	-1.0817	-1.0817	-1.0818	-1.0806	-1.0788	
kp mt 5	35	-1.0742	-1.0763	-1.0759	-1.0734	-1.0726	-1.0742	-1.0780	-1.0788	-1.0784	-1.0763	-1.0738	-1.0717	-1.0717	
kp mt 6	36	-1.0167	-1.0192	-1.0200	-1.0210	-1.0221	-1.0239	-1.0234	-1.0196	-1.0180	-1.0205	-1.0236	-1.0254	-1.0242	
kp kpi 1	37	-0.8998	-0.9019	-0.9041	-0.9078	-0.9117	-0.9111	-0.9073	-0.9057	-0.9063	-0.9057	-0.9041	-0.9041	-0.9057	
kp kpi 2	38	-0.8417	-0.8464	-0.8515	-0.8588	-0.8602	-0.8515	-0.8540	-0.8521	-0.8482	-0.8502	-0.8573	-0.8618	-0.8599	
kp kpi 3	39	-0.9203	-0.9183	-0.9203	-0.9224	-0.9229	-0.9203	-0.9167	-0.9152	-0.9162	-0.9188	-0.9168	-0.9188	-0.9208	
kp kpi 4	40	-0.8811	-0.8879	-0.8923	-0.8929	-0.8892	-0.8836	-0.8811	-0.8854	-0.8910	-0.8916	-0.8885	-0.8842	-0.8830	
kp kpi 5	41	-0.8984	-0.9028	-0.9050	-0.9071	-0.9076	-0.9076	-0.9066	-0.9050	-0.9030	-0.9028	-0.8989	-0.8974	-0.8999	
kp kpi6	42	-0.9007	-0.9052	-0.9069	-0.9057	-0.9052	-0.9074	-0.9091	-0.9088	-0.9057	-0.9025	-0.9035	-0.9018	-0.9007	
top kopi 1	43	-1.0760	-1.0778	-1.0783	-1.0803	-1.0826	-1.0828	-1.0795	-1.0783	-1.0760	-1.0778	-1.0778	-1.0775	-1.0766	
top kopi 2	44	-0.9932	-0.9961	-0.9960	-0.9944	-0.9940	-0.9957	-0.9986	-0.9947	-0.9977	-0.9946	-0.9920	-0.9926	-0.9946	
top kopi 3	45	-1.0711	-1.0678	-1.0672	-1.0678	-1.0689	-1.0689	-1.0692	-1.0687	-1.0700	-1.0705	-1.0708	-1.0722	-1.0741	
top kopi 4	46	-1.0708	-1.0706	-1.0711	-1.0737	-1.0756	-1.0756	-1.0740	-1.0717	-1.0697	-1.0689	-1.0700	-1.0728	-1.0746	
top kopi 5	47	-0.9718	-0.9659	-0.9634	-0.9624	-0.9639	-0.9684	-0.9674	-0.9678	-0.9679	-0.9688	-0.9688	-0.9679	-0.9684	
top kopi 6	48	-1.0426	-1.0442	-1.0438	-1.0438	-1.0454	-1.0468	-1.0461	-1.0434	-1.0434	-1.0453	-1.0454	-1.0446	-1.0424	
rescafe 1	49	-1.0780	-1.0766	-1.0765	-1.0774	-1.0752	-1.0758	-1.0777	-1.0788	-1.0796	-1.0771	-1.0742	-1.0726	-1.0752	
rescafe 2	50	-1.0616	-1.0580	-1.0576	-1.0581	-1.0586	-1.0586	-1.0603	-1.0626	-1.0624	-1.0596	-1.0560	-1.0553	-1.0563	
rescafe 3	51	-1.0705	-1.0669	-1.0689	-1.0682	-1.0709	-1.0725	-1.0725	-1.0705	-1.0695	-1.0695	-1.0695	-1.0695	-1.0702	
rescafe 4	52	-1.0940	-1.0927	-1.0920	-1.0927	-1.0944	-1.0957	-1.0957	-1.0948	-1.0917	-1.0911	-1.0920	-1.0927	-1.0947	
rescafe 5	53	-1.0515	-1.0498	-1.0480	-1.0477	-1.0508	-1.0557	-1.0585	-1.0571	-1.0547	-1.0529	-1.0519	-1.0526	-1.0540	
rescafe 6	54	-1.1064	-1.1086	-1.1074	-1.1058	-1.1045	-1.1049	-1.1055	-1.1070	-1.1086	-1.1077	-1.1061	-1.1058	-1.1067	

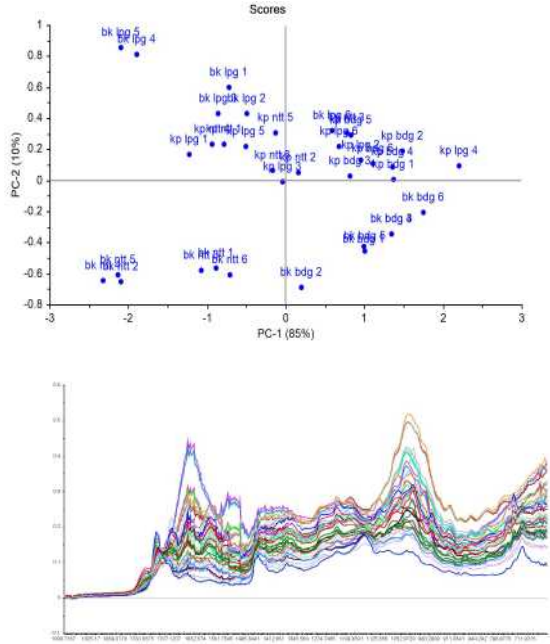
gelungan ke		3999.4335	3997.5698	3996.7062	3993.8425	3991.9788	3990.1152	3988.2515	3986.3878	3984.5241	3982.6605	3980.7968	3978.9331	3977.0695	39
		1	2	3	4	5	6	7	8	9	10	11	12	13	
kp bdg 3	21	-0.9881	-0.9891	-0.9922	-0.9967	-1.0003	-0.9988	-0.9962	-0.9957	-1.0003	-1.0008	-0.9952	-0.9896	-0.9896	
kp bdg 4	22	-0.9293	-0.9284	-0.9255	-0.9216	-0.9187	-0.9176	-0.9199	-0.9258	-0.9293	-0.9298	-0.9307	-0.9335	-0.9375	
kp bdg 5	23	-1.1250	-1.1245	-1.1255	-1.1271	-1.1261	-1.1283	-1.1150	-1.1128	-1.1155	-1.1182	-1.1229	-1.1245	-1.1224	
kp bdg 6	24	-0.8744	-0.8696	-0.8696	-0.8733	-0.8755	-0.8758	-0.8728	-0.8712	-0.8706	-0.8739	-0.8804	-0.8852	-0.8863	
kp lpg 1	25	-1.0959	-1.0955	-1.0959	-1.0968	-1.0973	-1.0973	-1.0976	-1.0980	-1.0993	-1.0980	-1.0952	-1.0925	-1.0928	
kp lpg 2	26	-0.9682	-0.9625	-0.9589	-0.9578	-0.9620	-0.9672	-0.9703	-0.9703	-0.9677	-0.9651	-0.9651	-0.9692	-0.9755	
kp lpg 3	27	-1.0238	-1.0268	-1.0285	-1.0285	-1.0196	-1.0162	-1.0179	-1.0226	-1.0276	-1.0318	-1.0293	-1.0251	-1.0226	
kp lpg 4	28	-0.8317	-0.8366	-0.8380	-0.8331	-0.8227	-0.8143	-0.8164	-0.8248	-0.8289	-0.8275	-0.8261	-0.8317	-0.8373	
kp lpg 5	29	-1.0716	-1.0731	-1.0747	-1.0755	-1.0742	-1.0719	-1.0698	-1.0698	-1.0724	-1.0763	-1.0774	-1.0751	-1.0703	
kp lpg 6	30	-1.0870	-1.0900	-1.0930	-1.0956	-1.0945	-1.0915	-1.0885	-1.0900	-1.0956	-1.0996	-1.0976	-1.0910	-1.0839	
kp mt 1	31	-1.0432	-1.0394	-1.0375	-1.0368	-1.0382	-1.0401	-1.0409	-1.0401	-1.0371	-1.0327	-1.0301	-1.0308	-1.0338	
kp mt 2	32	-1.0236	-1.0258	-1.0258	-1.0262	-1.0271	-1.0294	-1.0303	-1.0303	-1.0303	-1.0298	-1.0286	-1.0262	-1.0236	
kp mt 3	33	-1.0586	-1.0580	-1.0550	-1.0530	-1.0514	-1.0499	-1.0540	-1.0602	-1.0643	-1.0643	-1.0612	-1.0591	-1.0586	
kp mt 4	34	-1.0788	-1.0767	-1.0771	-1.0796	-1.0814	-1.0814	-1.0810	-1.0818	-1.0817	-1.0817	-1.0818	-1.0806	-1.0788	
kp mt 5	35	-1.0742	-1.0763	-1.0759	-1.0734	-1.0726	-1.0742	-1.0780	-1.0788	-1.0784	-1.0763	-1.0738	-1.0717	-1.0717	
kp mt 6	36	-1.0167	-1.0192	-1.0200	-1.0210	-1.0221	-1.0239	-1.0234	-1.0196	-1.0180	-1.0205	-1.0236	-1.0254	-1.0242	
kp kpi 1	37	-0.8998	-0.9019	-0.9041	-0.9078	-0.9117	-0.9111	-0.9073	-0.9057	-0.9063	-0.9057	-0.9041	-0.9041	-0.9057	
kp kpi 2	38	-0.8417	-0.8464	-0.8515	-0.8588	-0.8602	-0.8515	-0.8540	-0.8521	-0.8482	-0.8502	-0.8573	-0.8618	-0.8599	
kp kpi 3	39	-0.9203	-0.9183	-0.9203	-0.9224	-0.9229	-0.9203	-0.9167	-0.9152	-0.9162	-0.9188	-0.9168	-0.9188	-0.9208	
kp kpi 4	40	-0.8811	-0.8879	-0.8923	-0.8929	-0.8892	-0.8836	-0.8811	-0.8854	-0.8910	-0.8916	-0.8885	-0.8842	-0.8830	
kp kpi 5	41	-0.8984	-0.9028	-0.9050	-0.9071	-0.9076	-0.9076	-0.9066	-0.9050	-0.9030	-0.9028	-0.8989	-0.8974	-0.8999	
kp kpi6	42	-0.9007	-0.9052	-0.9069	-0.9057	-0.9052	-0.9074	-0.9091	-0.9088	-0.9057	-0.9025	-0.9035	-0.9018	-0.9007	
top kopi 1	43	-1.0760	-1.0778	-1.0783	-1.0803	-1.0826	-1.0828	-1.0795	-1.0783	-1.0760	-1.0778	-1.0778	-1.0775	-1.0766	
top kopi 2	44	-0.9932	-0.9961	-0.9960	-0.9944	-0.9940	-0.9957	-0.9986	-0.9947	-0.9977	-0.9946	-0.9920	-0.9926	-0.9946	
top kopi 3	45	-1.0711	-1.0678	-1.0672	-1.0678	-1.0689	-1.0689	-1.0692	-1.0687	-1.0700	-1.0705	-1.0708	-1.0722	-1.0741	
top kopi 4	46	-1.0708	-1.0706	-1.0711	-1.0737	-1.0756	-1.0756	-1.0740	-1.0717	-1.0697	-1.0689	-1.0700	-1.0728	-1.0746	
top kopi 5	47	-0.9718	-0.9659	-0.9634	-0.9624	-0.9639	-0.9684	-0.9674	-0.9678	-0.9679	-0.9688	-0.9688	-0.9679	-0.9684	
top kopi 6	48	-1.0426	-1.0442	-1.0438	-1.0438	-1.0454	-1.0468	-1.0461	-1.0434	-1.0434	-1.0453	-1.0454	-1.0446	-1.0424	
rescafe 1	49	-1.0780	-1.0766	-1.0765	-1.0774	-1.0752	-1.0758	-1.0777	-1.0788	-1.0796	-1.0771	-1.0742	-1.0726	-1.0752	
rescafe 2	50	-1.0616	-1.0580	-1.0576	-1.0581	-1.0586	-1.0586	-1.0603	-1.0626	-1.0624	-1.0596	-1.0560	-1.0553	-1.0563	
rescafe 3	51	-1.0705	-1.0669	-1.0689	-1.0682	-1.0709	-1.0725	-1.0725	-1.0705	-1.0695	-1.0695	-1.0695	-1.0695	-1.0702	
rescafe 4	52	-1.0940	-1.0927	-1.0920	-1.0927	-1.0944	-1.0957	-1.0957	-1.0948	-1.0917	-1.0911	-1.0920	-1.0927	-1.0947	
rescafe 5	53	-1.0515	-1.0498	-1.0480	-1.0477	-1.0508	-1.0557	-1.0585	-1.0571	-1.0547	-1.0529	-1.0519	-1.0526	-1.0540	
rescafe 6	54	-1.1064	-1.1086	-1.1074	-1.1058	-1.1045	-1.1049	-1.1055	-1.1070	-1.1086	-1.1077	-1.1061	-1.1058	-1.1067	

Lampiran 4. Data PCA Transformasi

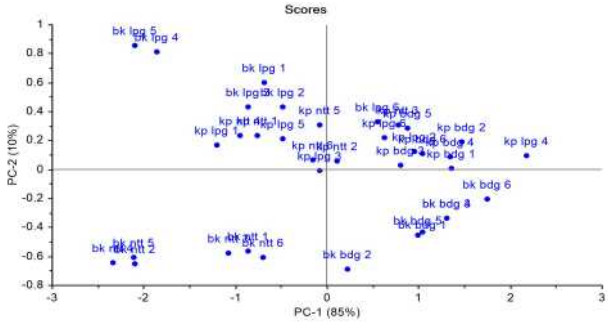
PCA ke	Transformasi			PC			Eigen Value			Keterangan
	Baseline	Smooting	SNV	PC1	PC2	PC3	PC1	PC2	PC3	
0	--	--	--	85%	10%	3%	15,417	0,1773	0,0568	Exclude: 1-1073 (4000-2000)
1	√	--	--	85%	10%	3%	15,126	0,1772	0,0569	Exclude: 1-1073 (4000-2000)
2	--	√	--	86%	10%	3%	15,410	0,1771	0,0563	Exclude: 1-1073 (4000-2000)
3	--	--	√	47%	35%	10%	291,053	216,387	59,610	Exclude: 1-1073 (4000-2000)
4	√	√	--	85%	10%	3%	15,156	0,1770	0,0564	Exclude: 1-1073 (4000-2000)
5	√	--	√	47%	35%	10%	291,053	216,387	59,610	Exclude: 1-1073 (4000-2000)
6	--	√	√	47%	35%	10%	290,391	215,899	59,046	Exclude: 1-1073 (4000-2000)
7	√	√	√	49%	33%	10%	306,998	211,209	64,188	Exclude: 1-1073 (4000-2000)
8	--	--	--	86%	10%	3%	15,349	0,1765	0,0526	Ex: 1-1073,1191-1231(1781, 6675-1707,1207)
9	√	--	--	86%	10%	3%	15,094	0,1764	0,0527	Ex: 1-1073,1191-1231(1781, 6675-1707,1207)
10	--	√	--	86%	10%	3%	15,344	0,1763	0,0522	Ex: 1-1073,1191-1231(1781, 6675-1707,1207)
11	--	--	√	50%	30%	10%	265,028	159,519	55,064	Ex: 1-1073,1191-1231(1781, 6675-1707,1207)
12	√	√	--	86%	10%	3%	15,089	0,1762	0,0523	Ex: 1-1073,1191-1231(1781, 6675-1707,1207)
13	√	--	√	50%	30%	10%	265,028	159,519	55,064	Ex: 1-1073,1191-1231(1781, 6675-1707,1207)
14	--	√	√	50%	30%	10%	264,791	159,005	54,624	Ex: 1-1073,1191-1231(1781, 6675-1707,1207)
15	√	√	√	51%	29%	11%	282,687	160,525	61,190	Ex: 1-1073,1191-1231(1781, 6675-1707,1207)
16	--	√	√	53%	28%	11%	268,941	141,339	53,975	Ex: colum: 1-1073,1191-1231, row :28
17	--	√	√	53%	30%	9%	267,076	151,292	47,195	Ex: colum: 1-1073,1191-1231, row : 6,12,28,34

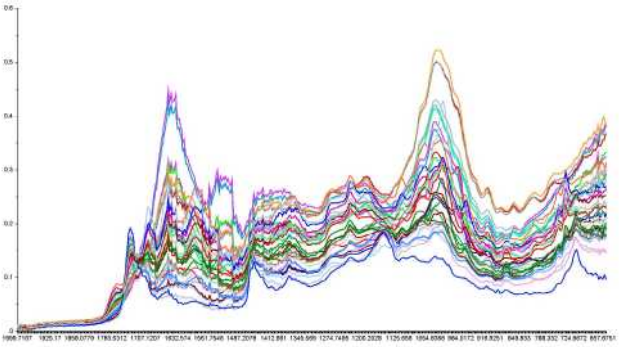
Lampiran 5. Transformasi

1. PCA 0 (TRANSPOSE)

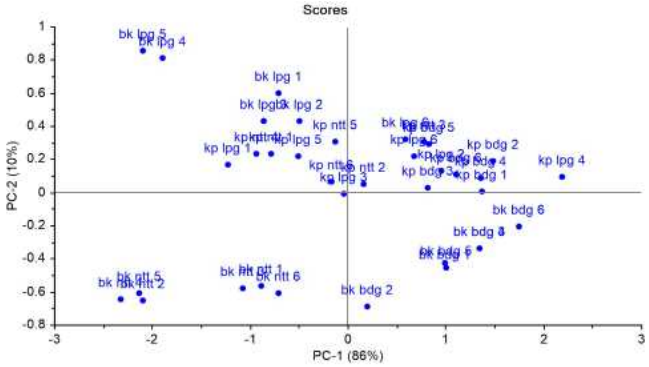


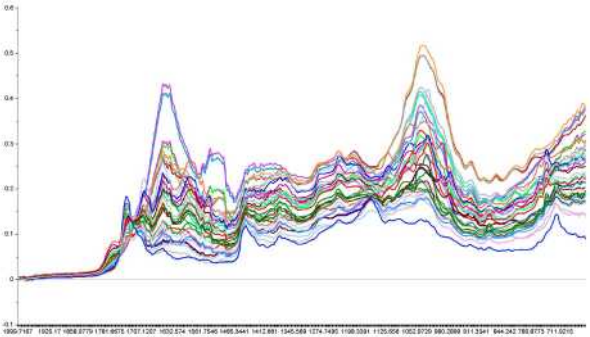
2. PCA 1 (BASELINE)



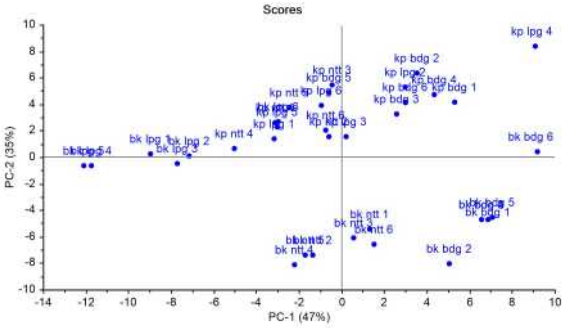


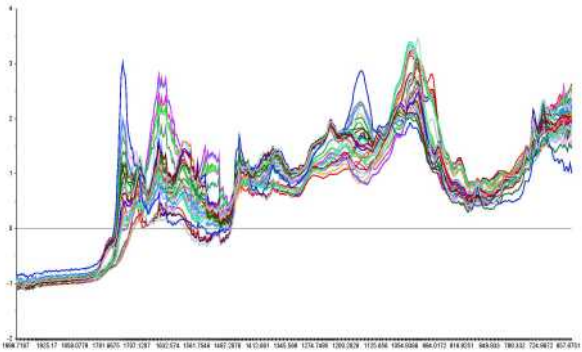
3. PCA 2 (SMOTHING)



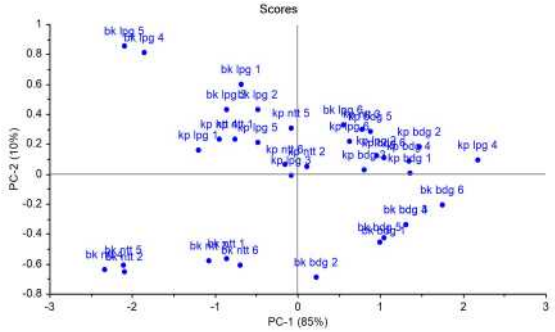


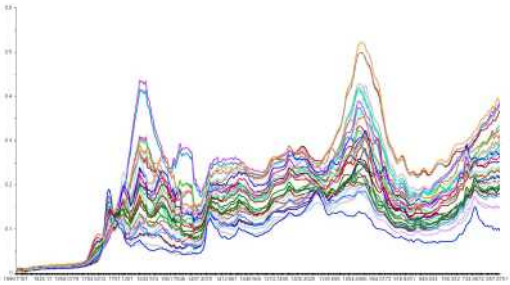
4. PCA 3 (SNV)



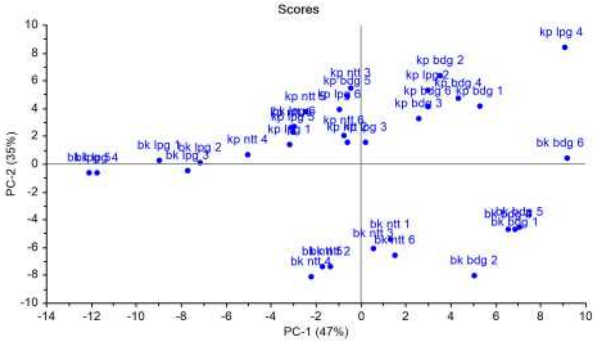


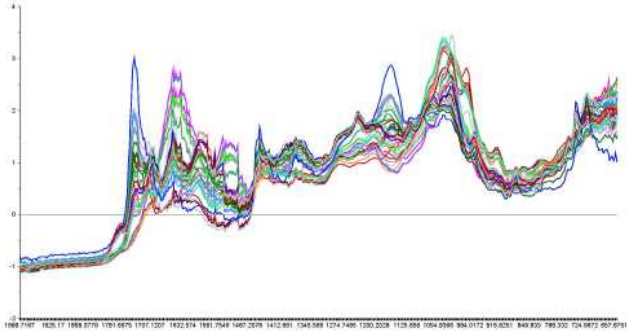
5. PCA 4 (BASELINE-SMOTHING)



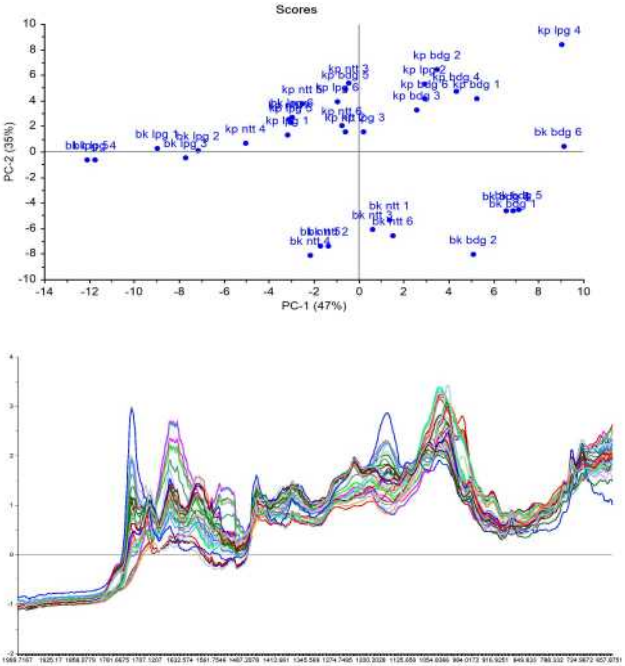


6. PCA 5 (BASELINE-SNV)

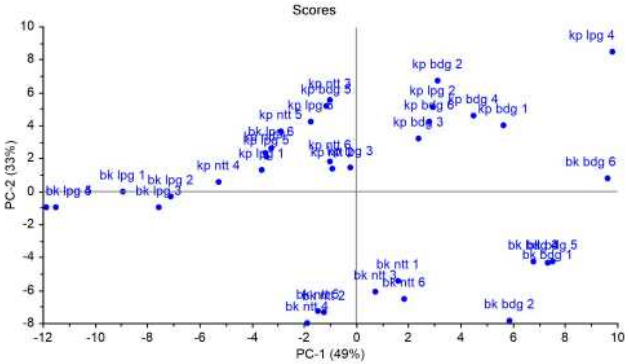


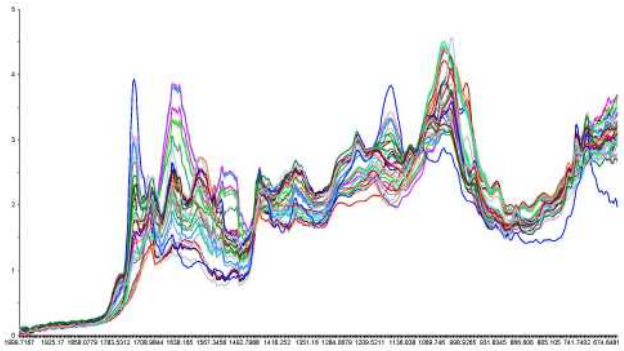


7. PCA 6 (SMOTHING-SNV)

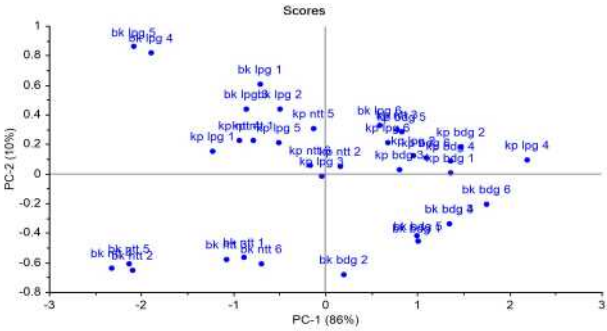


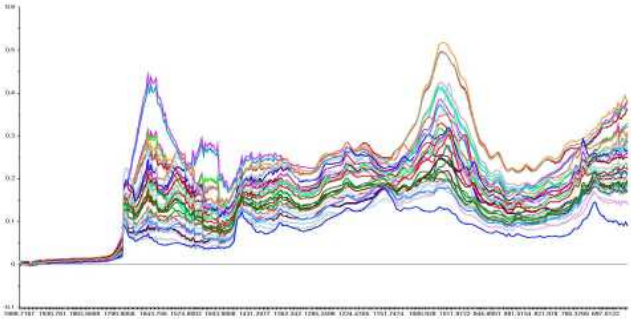
8. PCA 7 (BASELINE-SMOTHING-SNV)



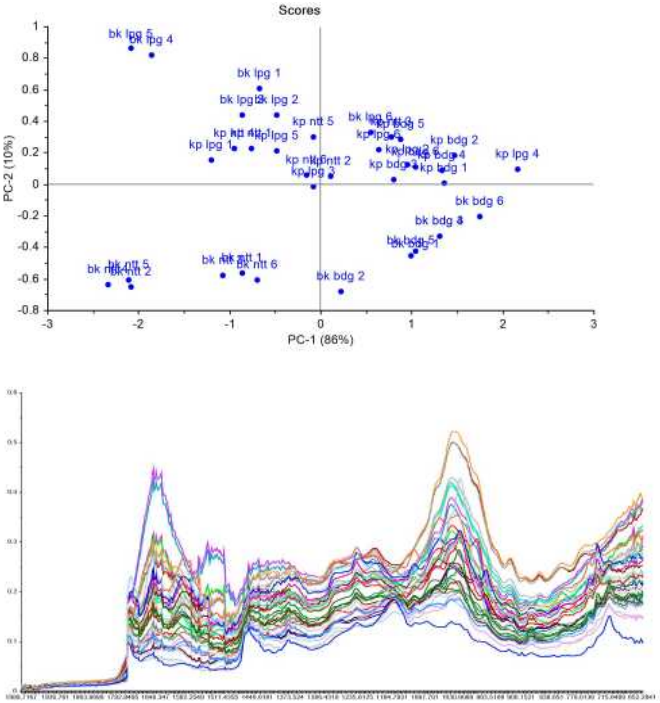


9. PCA 8 (EX: COLUM 1-1073,1191-1231)

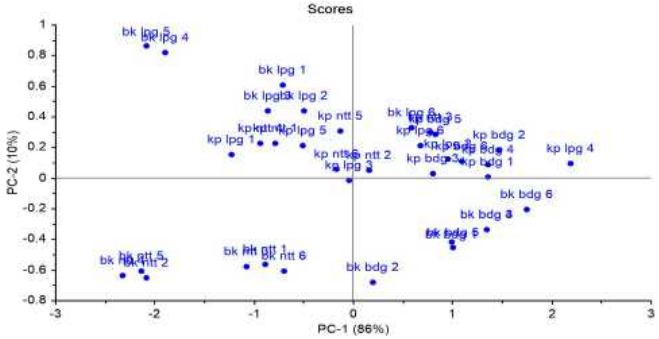


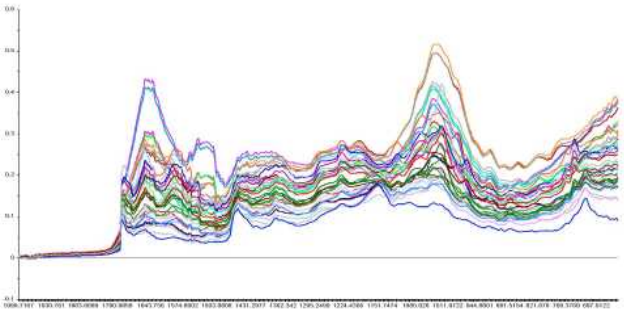


10. PCA 9 (BASELINE -EX: COLUM 1-1073,1191-1231)

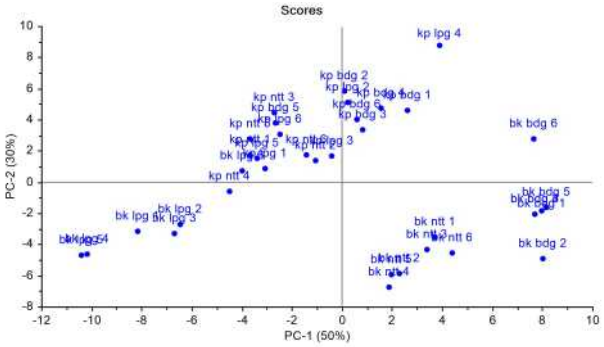


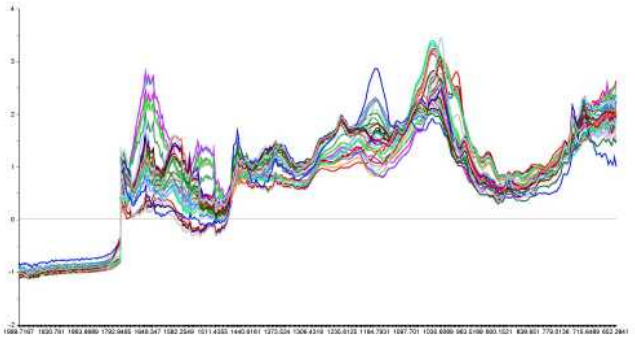
11. PCA 10 (SMOTHING -EX: COLUM 1-1073,1191-1231)



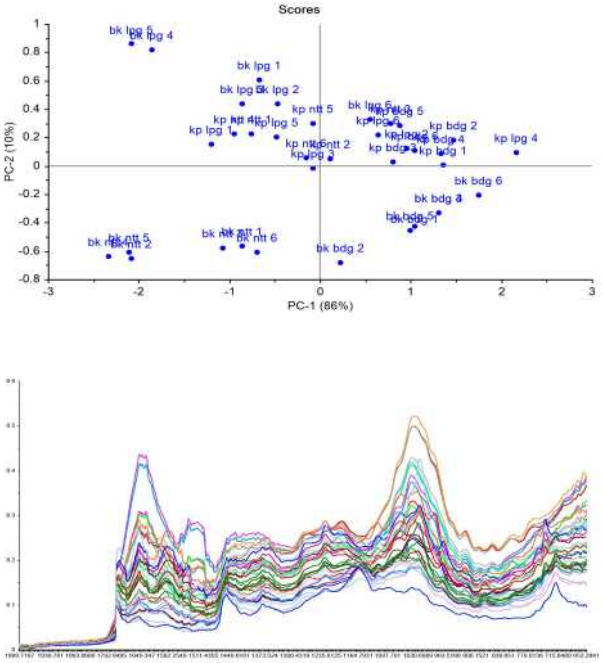


12. PCA 11 (SNV -EX: COLUM 1-1073,1191-1231)

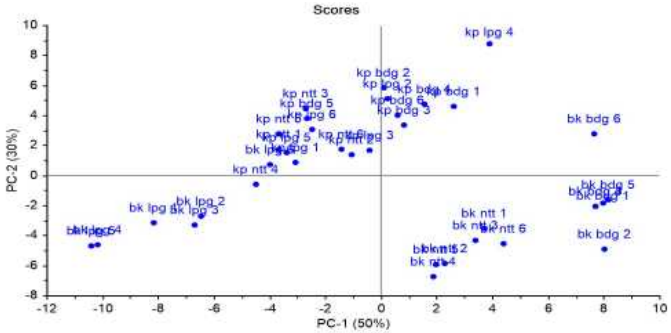


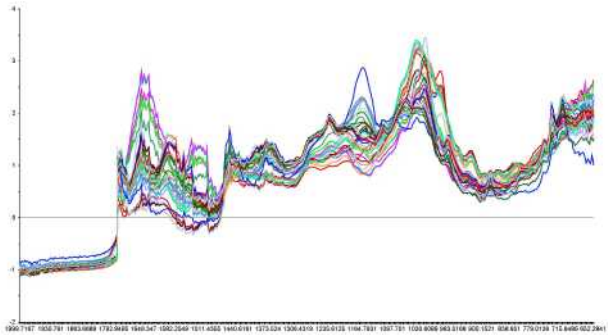


13. PCA 12 (BASELINE - SMOTHING-EX: COLUM 1-1073,1191-1231)

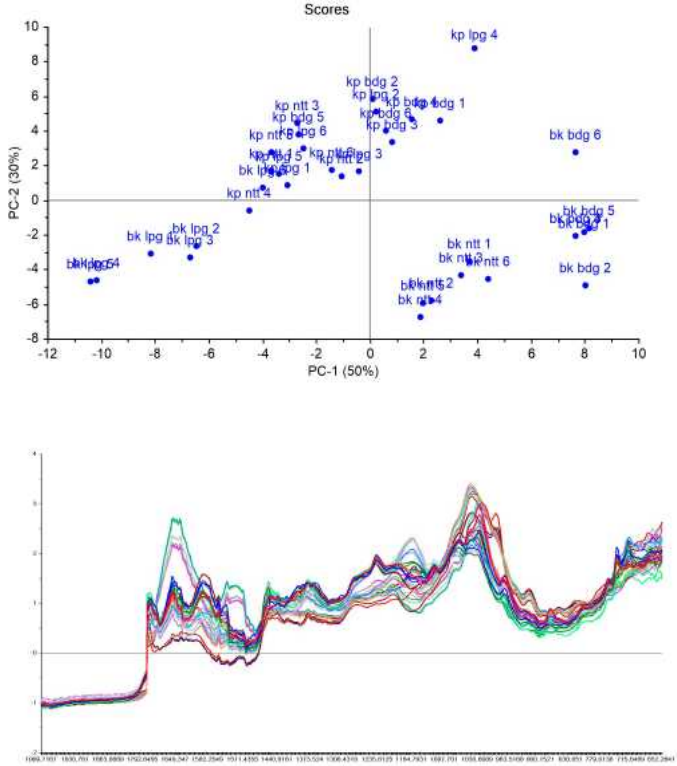


14. PCA 13 (BASELINE-SNV -EX: COLUM 1-1073,1191-1231)

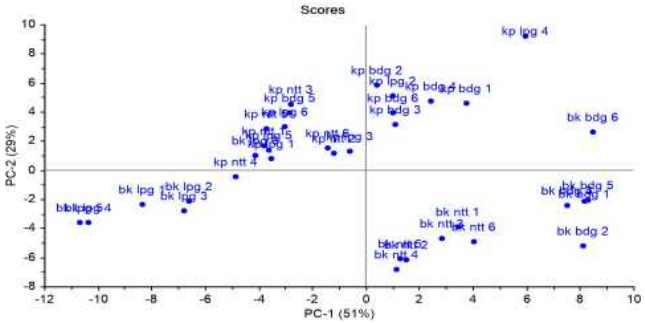


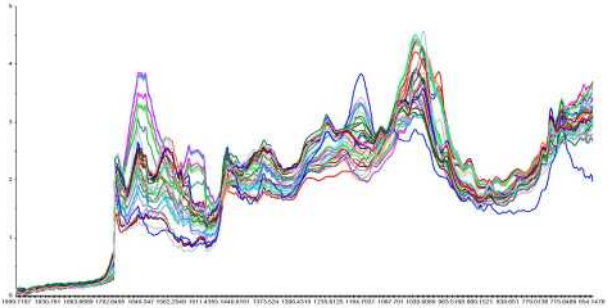


15. PCA 14 (SMOTHING-SNV -EX: COLUM 1-1073,1191-1231)

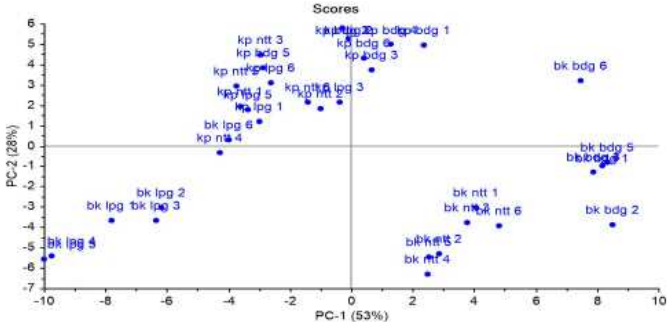


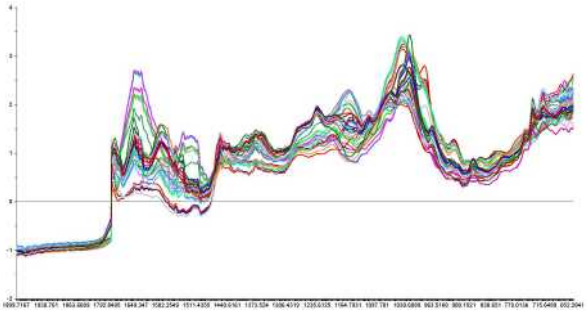
16. PCA 15 (BASELINE-SMOTHING-SNV -EX: COLUM 1-1073,1191-1231)



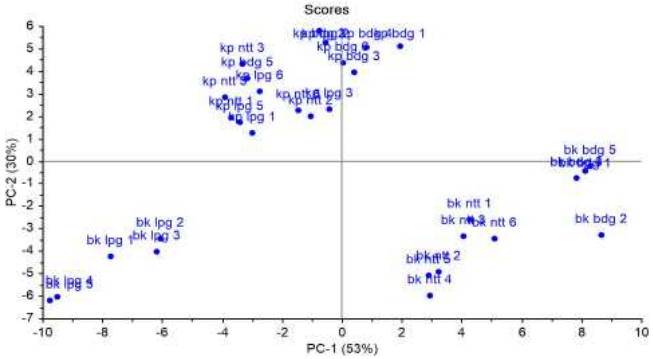


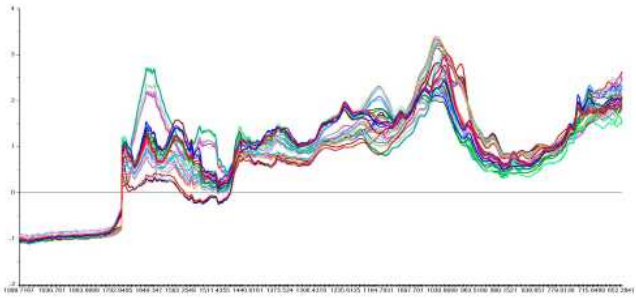
17. PCA 16 (SMOTHING-SNV -EX: COLUM 1-1073,1191-1231, ROW: 28)





18. PCA 17 (SMOTHING-SNV -EX: COLUM 1-1073,1191-1231, ROW: 6,12,28,34)





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