

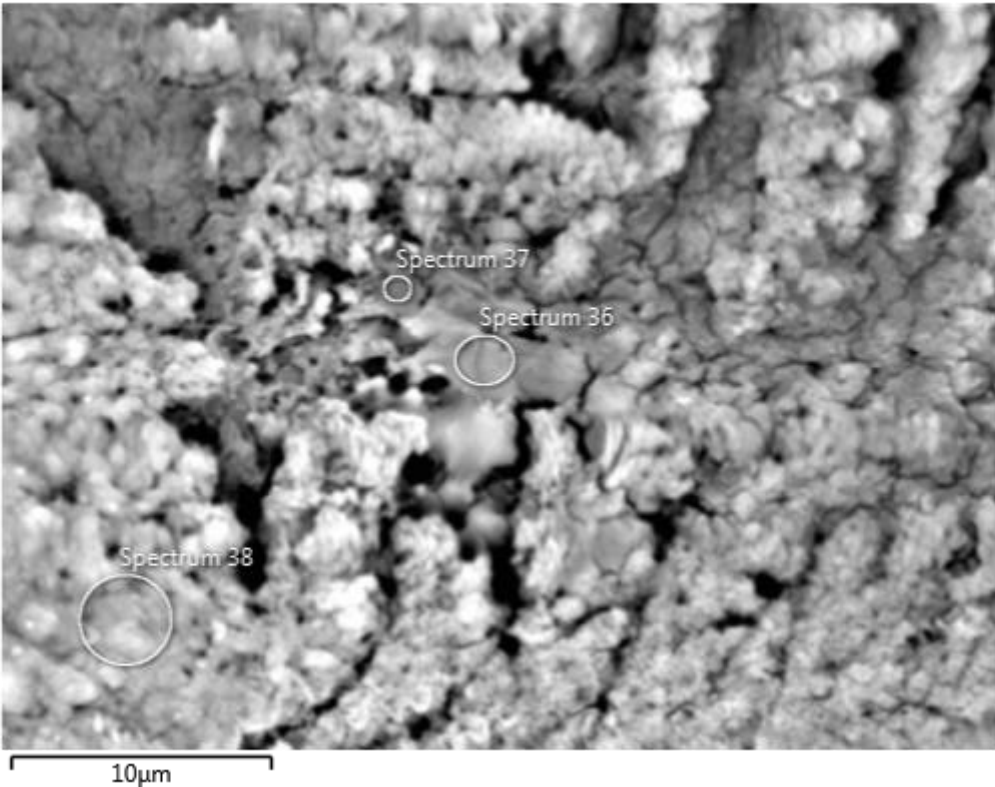
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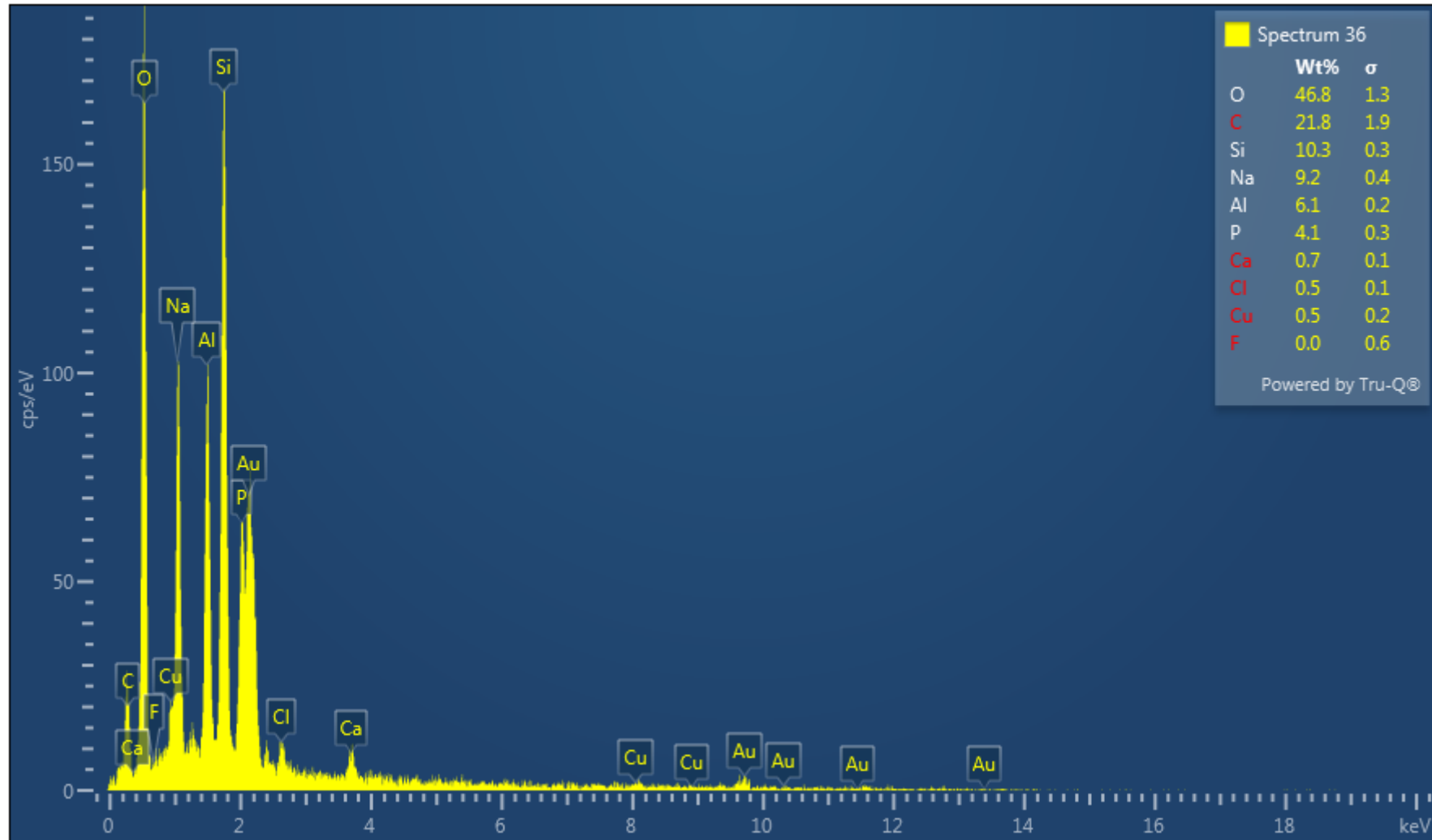
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Project Notes

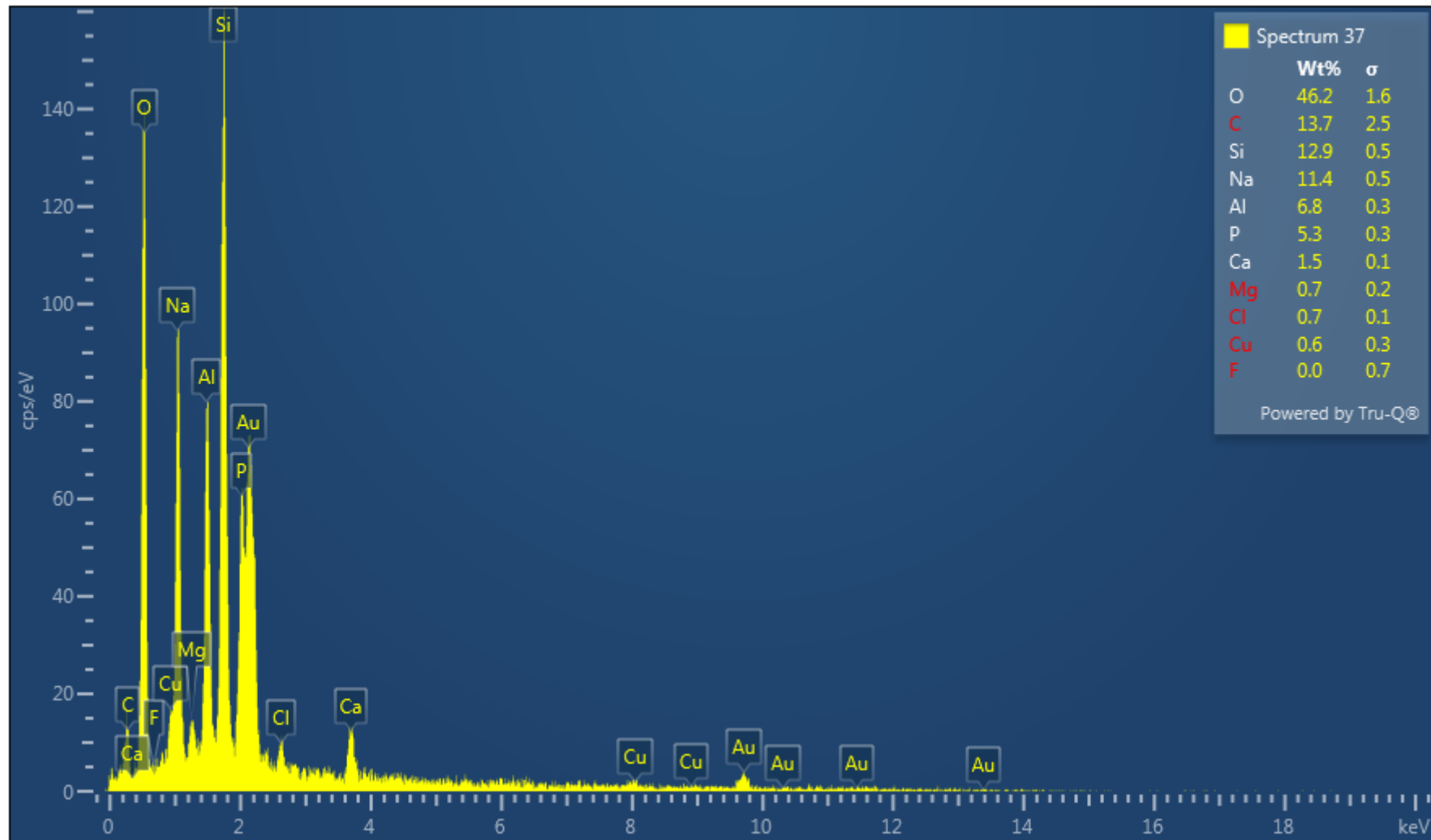
Specimen Notes

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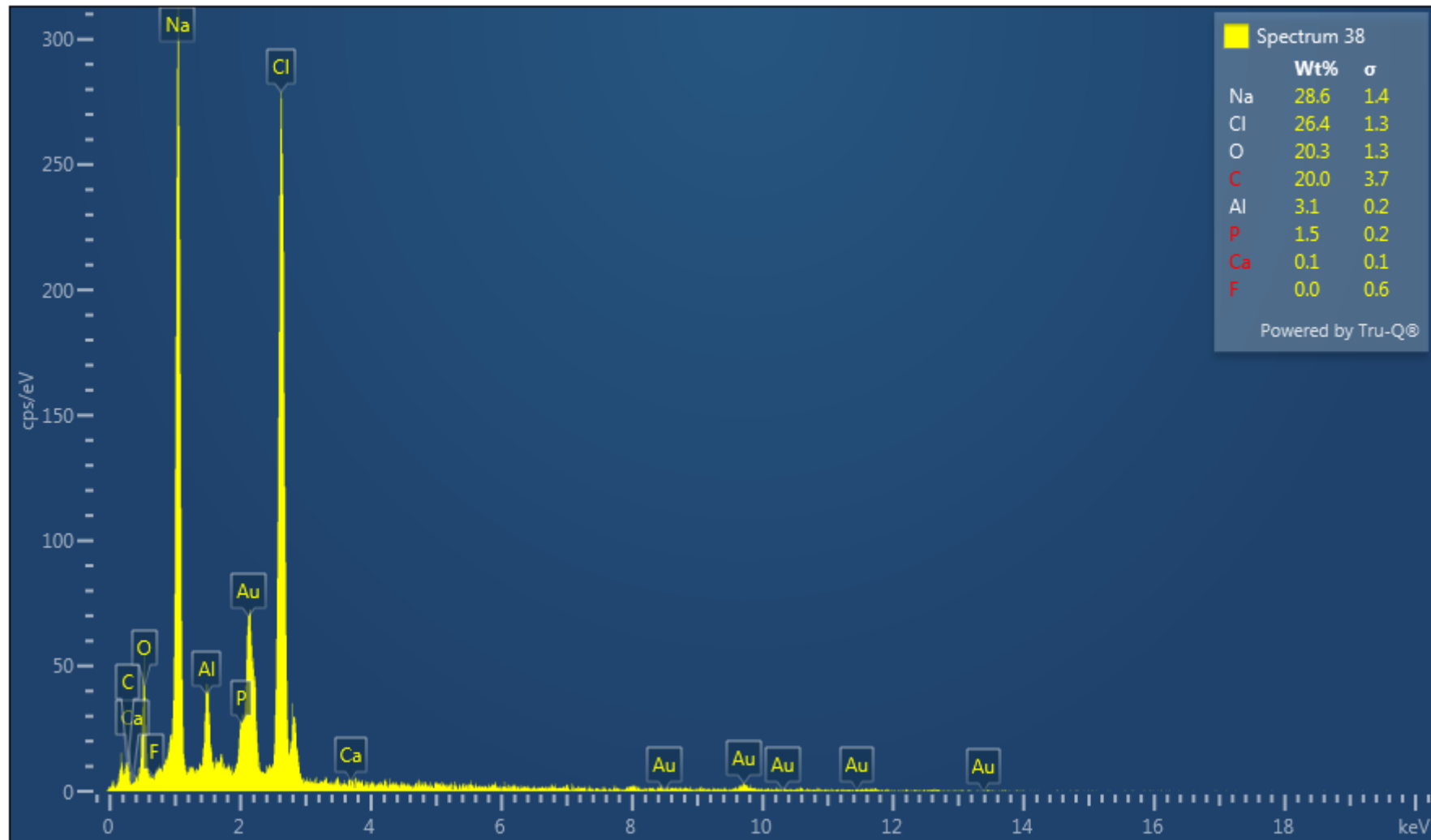




Spectrum 36								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	1.49	0.01485	21.84	1.88	C Vit	Yes	
O	K series	19.11	0.06431	46.76	1.31	SiO2	Yes	
F	K series	0.01	0.00002	0.02	0.62	CaF2	Yes	
Na	K series	5.32	0.02244	9.25	0.39	Albite	Yes	
Al	K series	3.34	0.02401	6.05	0.25	Al2O3	Yes	
Si	K series	5.90	0.04678	10.29	0.35	SiO2	Yes	
P	K series	3.26	0.01825	4.05	0.25	GaP	Yes	
Cl	K series	0.30	0.00260	0.52	0.09	NaCl	Yes	
Ca	K series	0.49	0.00439	0.73	0.10	Wollastonite	Yes	
Cu	K series	0.26	0.00264	0.47	0.21	Cu	Yes	
Total:				100.00				



Spectrum 37								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	0.58	0.00580	13.72	2.53	C Vit	Yes	
O	K series	15.07	0.05072	46.24	1.55	SiO2	Yes	
F	K series	0.01	0.00003	0.05	0.65	CaF2	Yes	
Na	K series	5.02	0.02120	11.37	0.51	Albite	Yes	
Mg	K series	0.25	0.00168	0.75	0.17	MgO	Yes	
Al	K series	2.74	0.01966	6.78	0.31	Al2O3	Yes	
Si	K series	5.42	0.04291	12.93	0.49	SiO2	Yes	
P	K series	3.07	0.01714	5.32	0.34	GaP	Yes	
Cl	K series	0.30	0.00261	0.72	0.12	NaCl	Yes	
Ca	K series	0.76	0.00677	1.53	0.14	Wollastonite	Yes	
Cu	K series	0.25	0.00253	0.60	0.28	Cu	Yes	
Total:				100.00				



Spectrum 38								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	0.54	0.00539	19.99	3.66	C Vit	Yes	
O	K series	4.69	0.01577	20.25	1.29	SiO2	Yes	
F	K series	0.00	0.00000	0.00	0.56	CaF2	Yes	
Na	K series	17.26	0.07283	28.65	1.40	Albite	Yes	
Al	K series	1.25	0.00900	3.10	0.24	Al2O3	Yes	
P	K series	1.12	0.00626	1.52	0.22	GaP	Yes	
Cl	K series	13.47	0.11770	26.39	1.28	NaCl	Yes	
Ca	K series	0.05	0.00047	0.10	0.11	Wollastonite	Yes	
Total:				100.00				

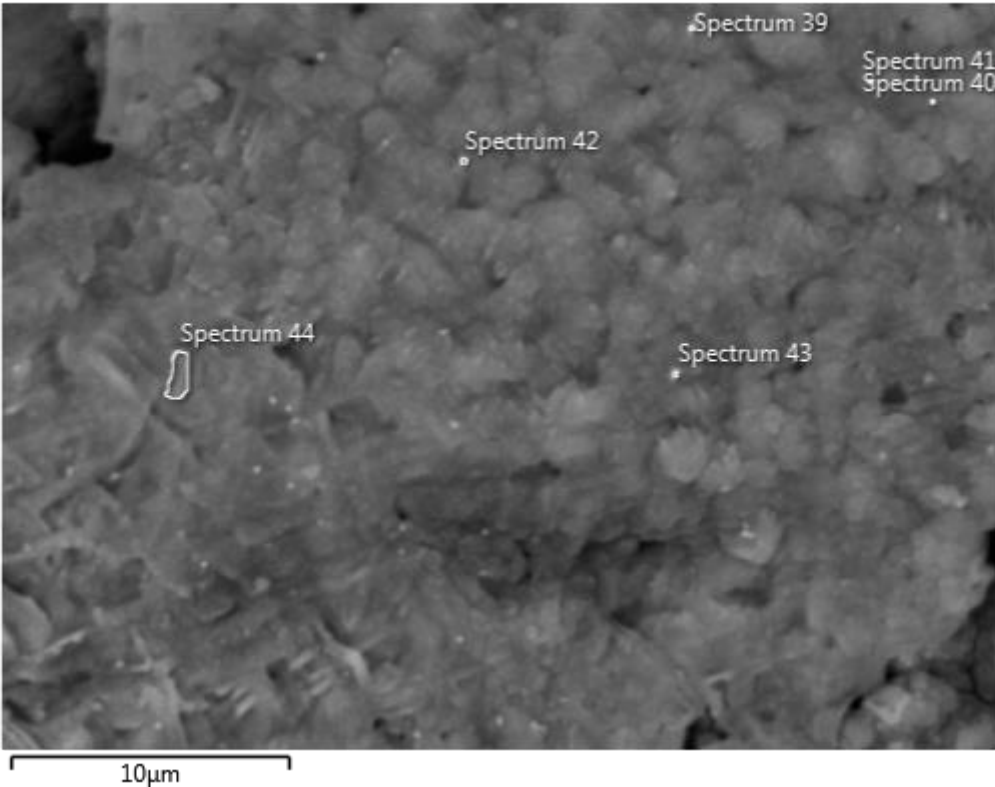
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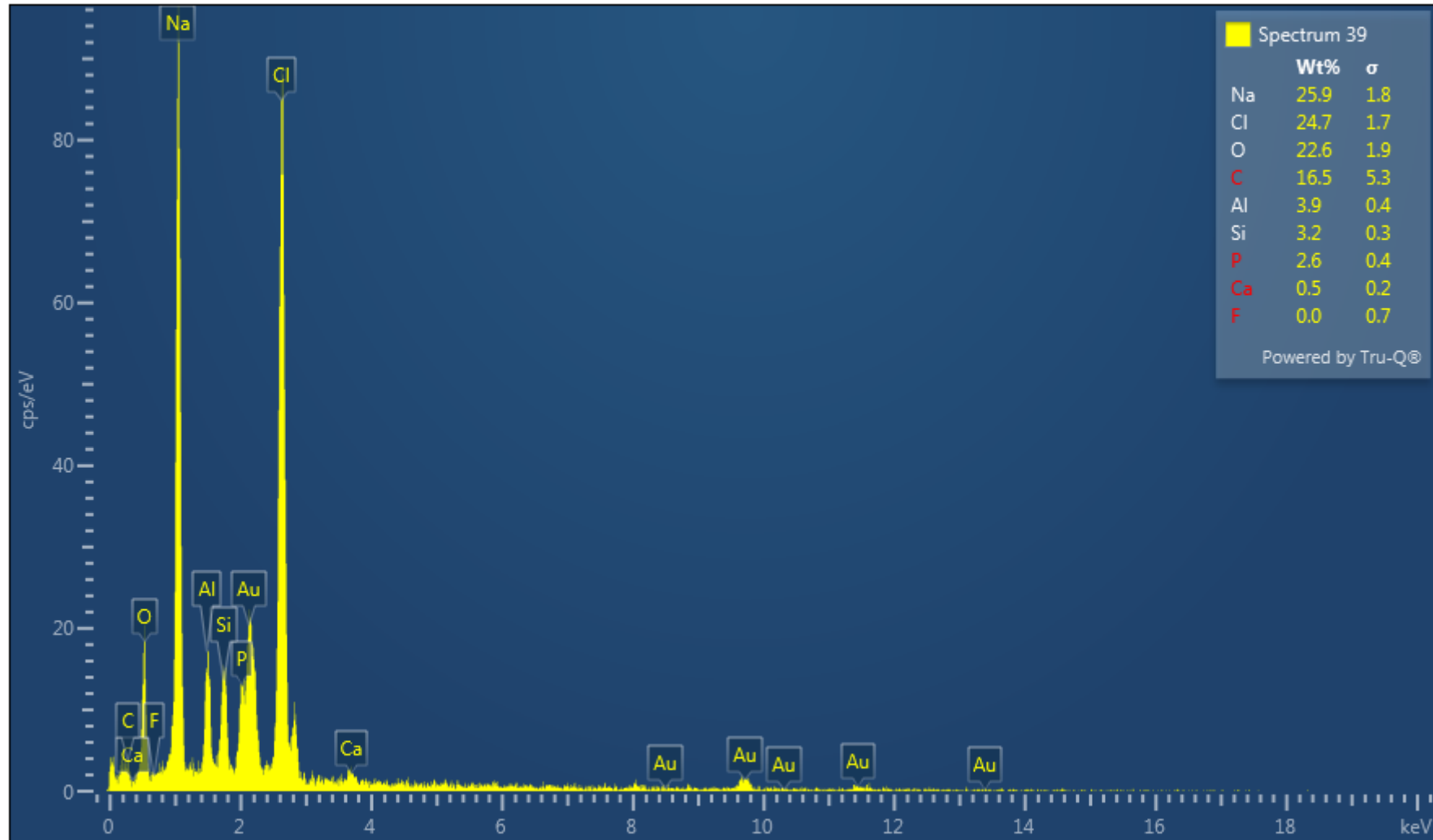
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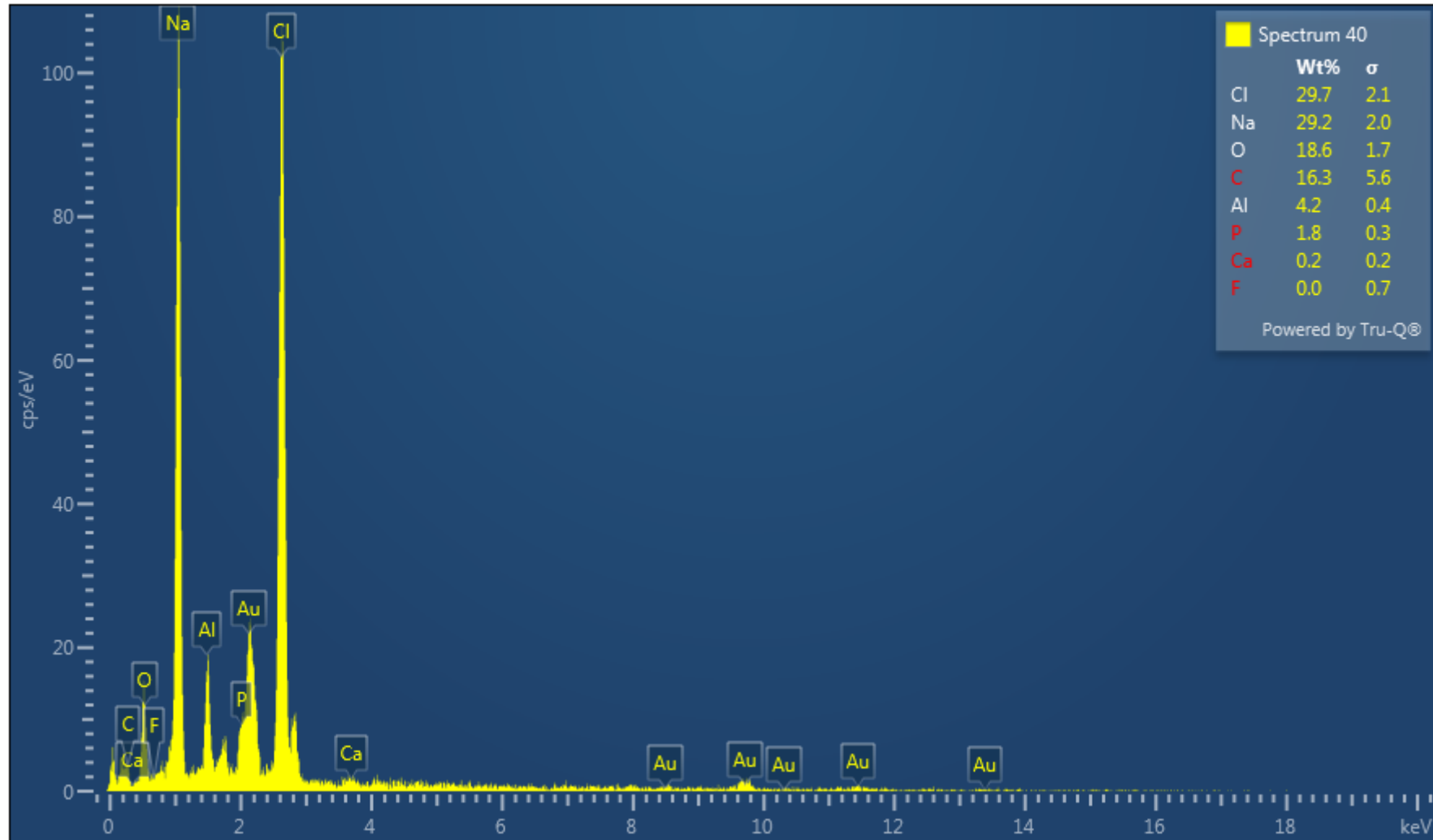
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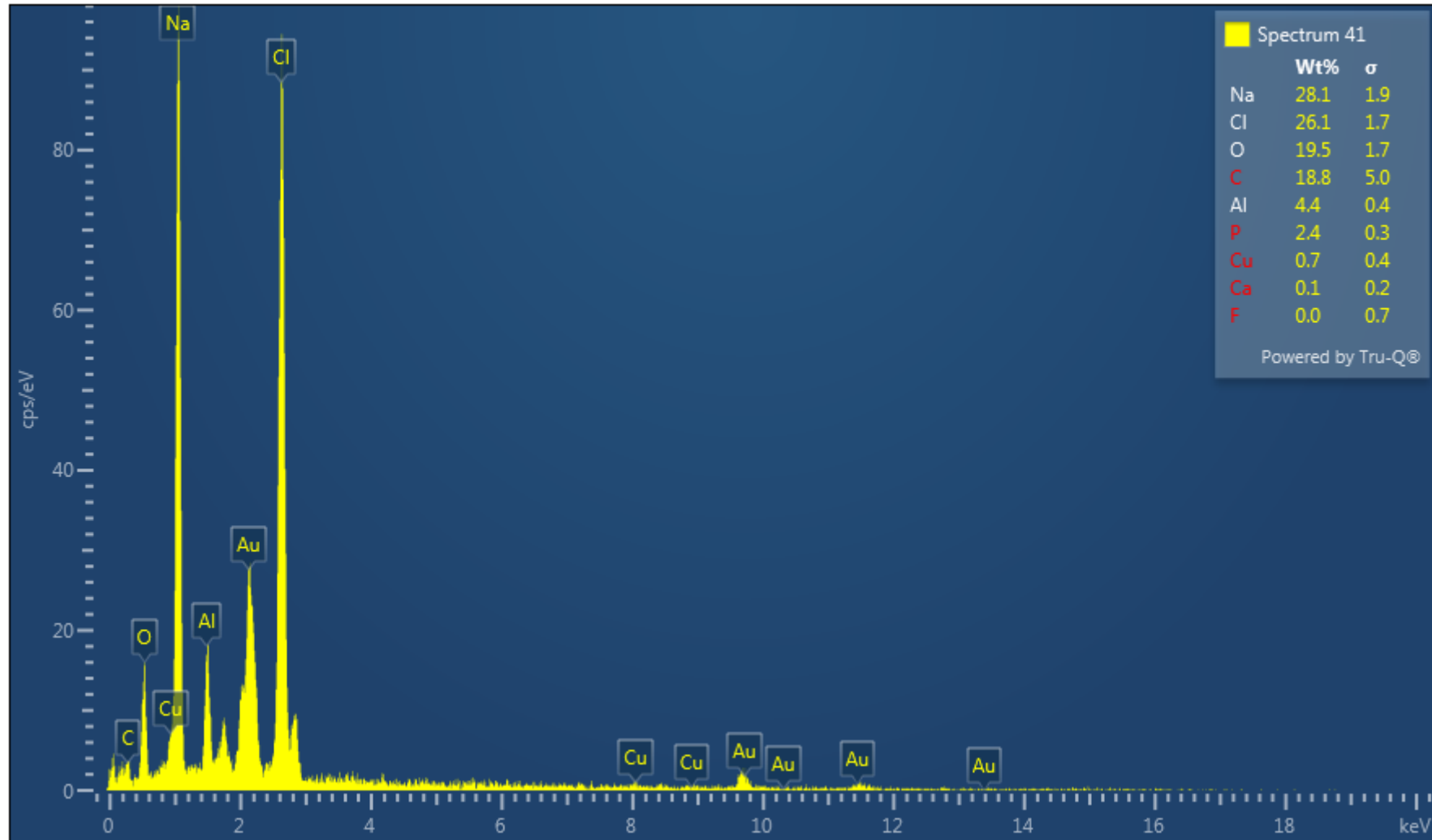




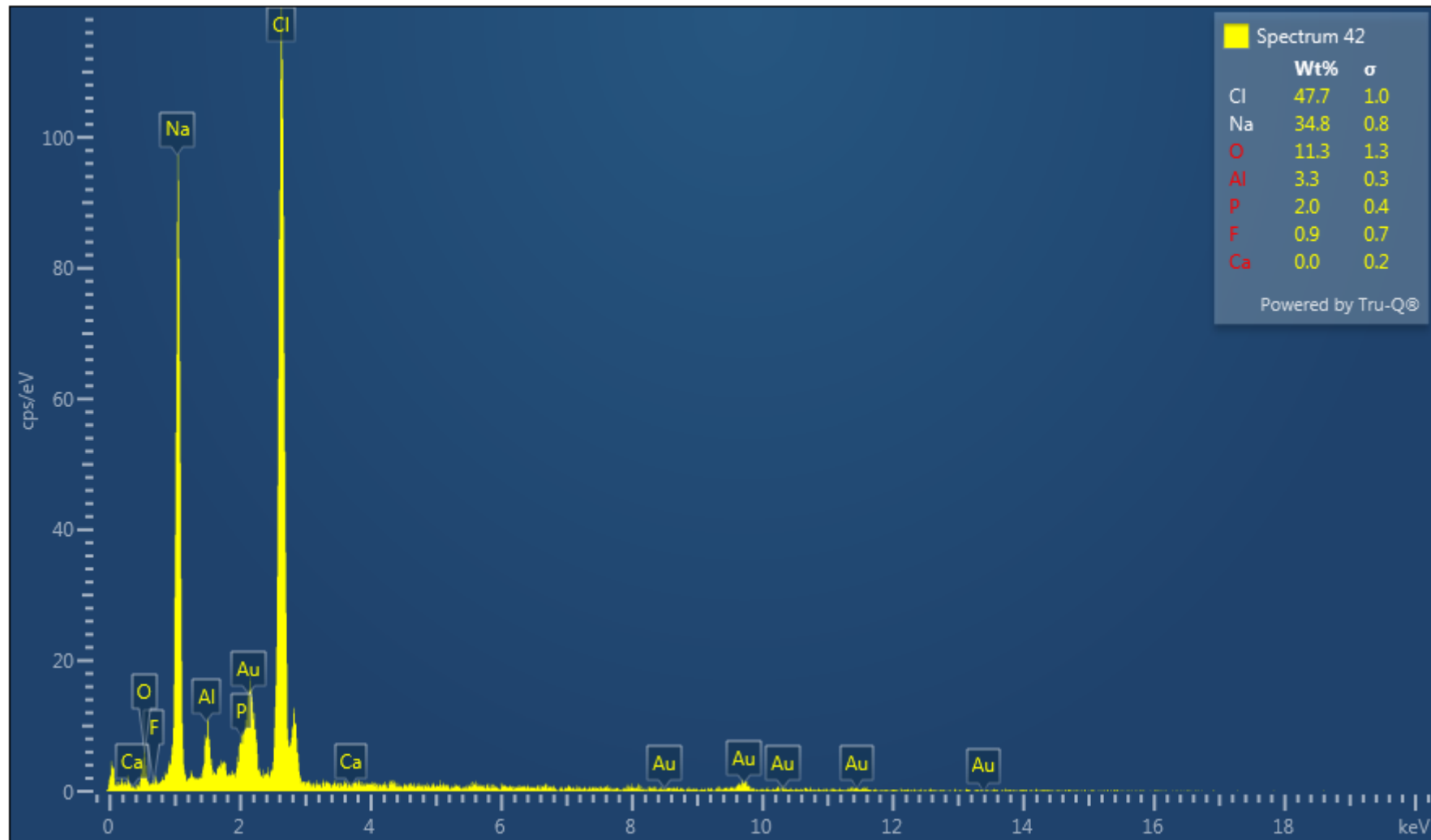
Spectrum 39								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	0.15	0.00146	16.50	5.29	C Vit	Yes	
O	K series	1.81	0.00608	22.60	1.87	SiO2	Yes	
F	K series	0.01	0.00001	0.04	0.71	CaF2	Yes	
Na	K series	5.12	0.02159	25.87	1.76	Albite	Yes	
Al	K series	0.55	0.00392	3.93	0.37	Al2O3	Yes	
Si	K series	0.49	0.00389	3.19	0.31	SiO2	Yes	
P	K series	0.63	0.00351	2.63	0.35	GaP	Yes	
Cl	K series	4.12	0.03602	24.74	1.68	NaCl	Yes	
Ca	K series	0.09	0.00076	0.49	0.17	Wollastonite	Yes	
Total:				100.00				



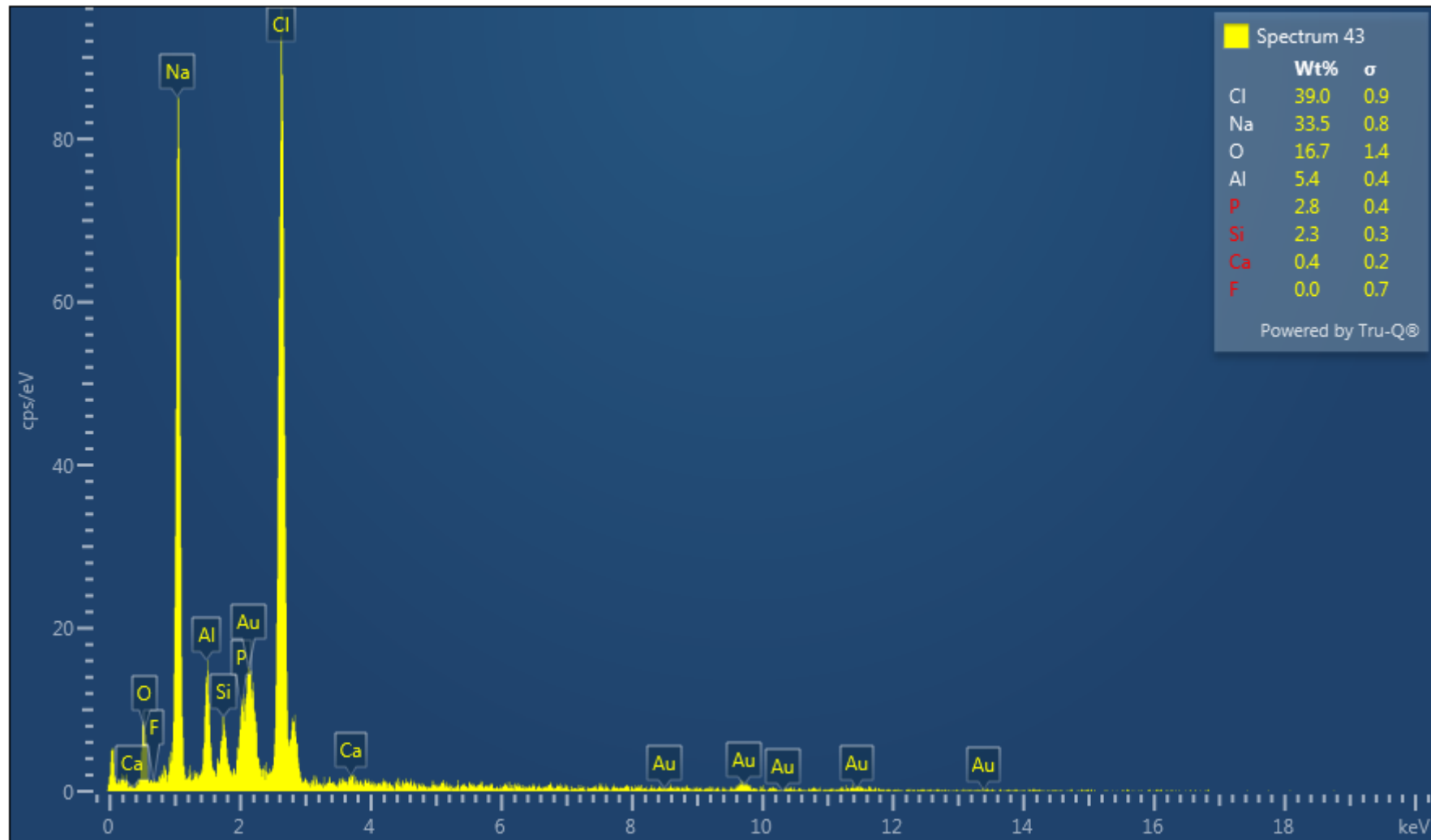
Spectrum 40								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	0.13	0.00134	16.27	5.57	C Vit	Yes	
O	K series	1.42	0.00480	18.58	1.72	SiO2	Yes	
F	K series	0.00	0.00000	0.00	0.69	CaF2	Yes	
Na	K series	6.03	0.02547	29.24	2.05	Albite	Yes	
Al	K series	0.58	0.00413	4.22	0.40	Al2O3	Yes	
P	K series	0.45	0.00252	1.83	0.31	GaP	Yes	
Cl	K series	5.07	0.04433	29.66	2.07	NaCl	Yes	
Ca	K series	0.04	0.00032	0.20	0.15	Wollastonite	Yes	
Total:				100.00				



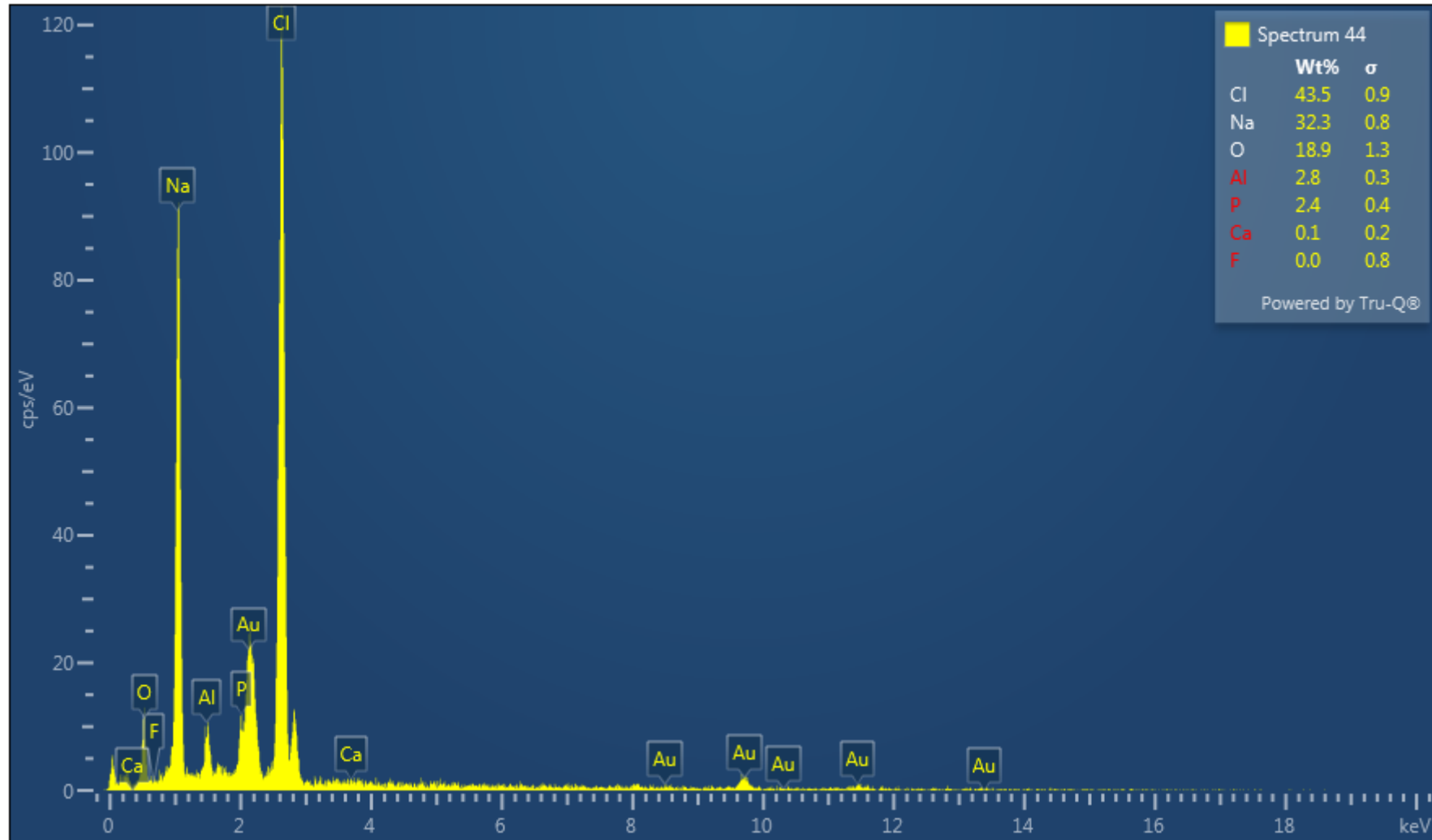
Spectrum 41								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	0.16	0.00163	18.77	5.03	C Vit	Yes	
O	K series	1.50	0.00504	19.50	1.71	SiO2	Yes	
F	K series	0.00	0.00000	0.00	0.70	CaF2	Yes	
Na	K series	5.54	0.02339	28.07	1.86	Albite	Yes	
Al	K series	0.58	0.00420	4.38	0.39	Al2O3	Yes	
P	K series	0.57	0.00320	2.38	0.35	GaP	Yes	
Cl	K series	4.35	0.03806	26.15	1.73	NaCl	Yes	
Ca	K series	0.01	0.00012	0.08	0.16	Wollastonite	Yes	
Cu	K series	0.11	0.00107	0.68	0.40	Cu	Yes	
Total:				100.00				



Spectrum 42								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
O	K series	0.57	0.00191	11.28	1.30	SiO2	Yes	
F	K series	0.11	0.00022	0.94	0.69	CaF2	Yes	
Na	K series	5.29	0.02231	34.83	0.84	Albite	Yes	
Al	K series	0.30	0.00216	3.26	0.32	Al2O3	Yes	
P	K series	0.34	0.00190	1.97	0.37	GaP	Yes	
Cl	K series	5.73	0.05011	47.72	0.99	NaCl	Yes	
Ca	K series	0.00	0.00000	0.00	0.21	Wollastonite	Yes	
Total:				100.00				



Spectrum 43								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
O	K series	0.90	0.00303	16.72	1.36	SiO2	Yes	
F	K series	0.00	0.00000	0.00	0.71	CaF2	Yes	
Na	K series	4.85	0.02047	33.47	0.82	Albite	Yes	
Al	K series	0.49	0.00352	5.45	0.37	Al2O3	Yes	
Si	K series	0.23	0.00178	2.26	0.28	SiO2	Yes	
P	K series	0.44	0.00246	2.76	0.40	GaP	Yes	
Cl	K series	4.40	0.03843	38.97	0.88	NaCl	Yes	
Ca	K series	0.04	0.00037	0.37	0.22	Wollastonite	Yes	
Total:				100.00				



Spectrum 44								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
O	K series	1.13	0.00379	18.91	1.32	SiO2	Yes	
F	K series	0.00	0.00000	0.00	0.77	CaF2	Yes	
Na	K series	5.06	0.02137	32.28	0.79	Albite	Yes	
Al	K series	0.29	0.00207	2.84	0.30	Al2O3	Yes	
P	K series	0.46	0.00259	2.44	0.37	GaP	Yes	
Cl	K series	5.71	0.04992	43.46	0.91	NaCl	Yes	
Ca	K series	0.01	0.00008	0.07	0.21	Wollastonite	Yes	
Total:				100.00				

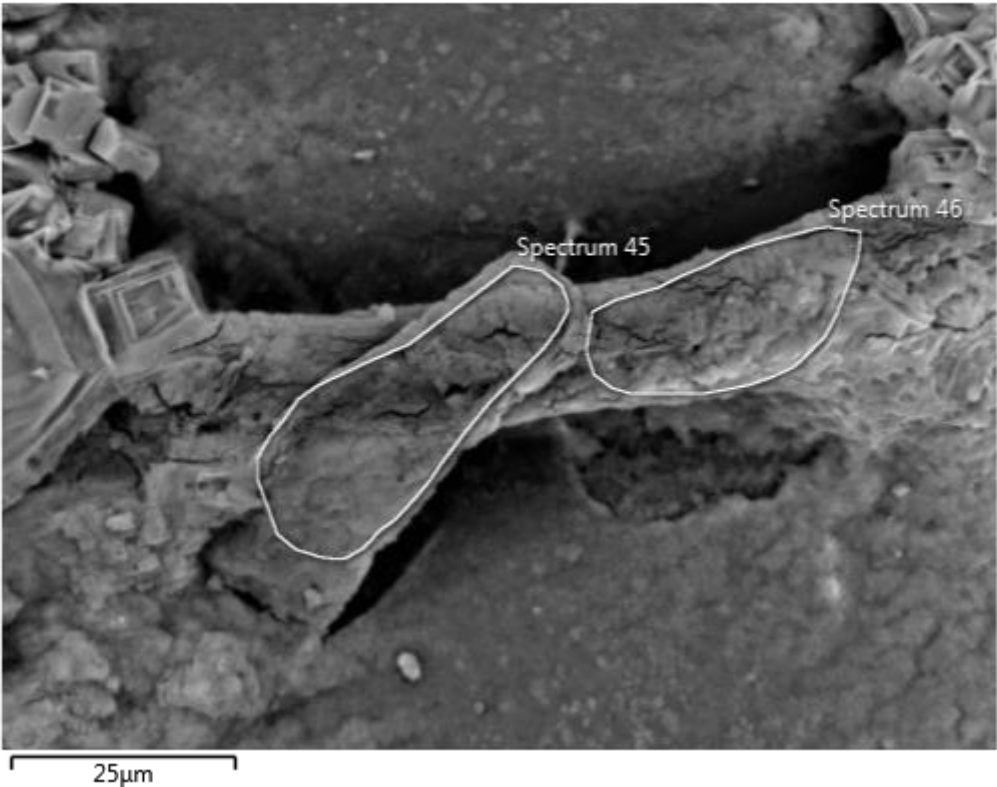
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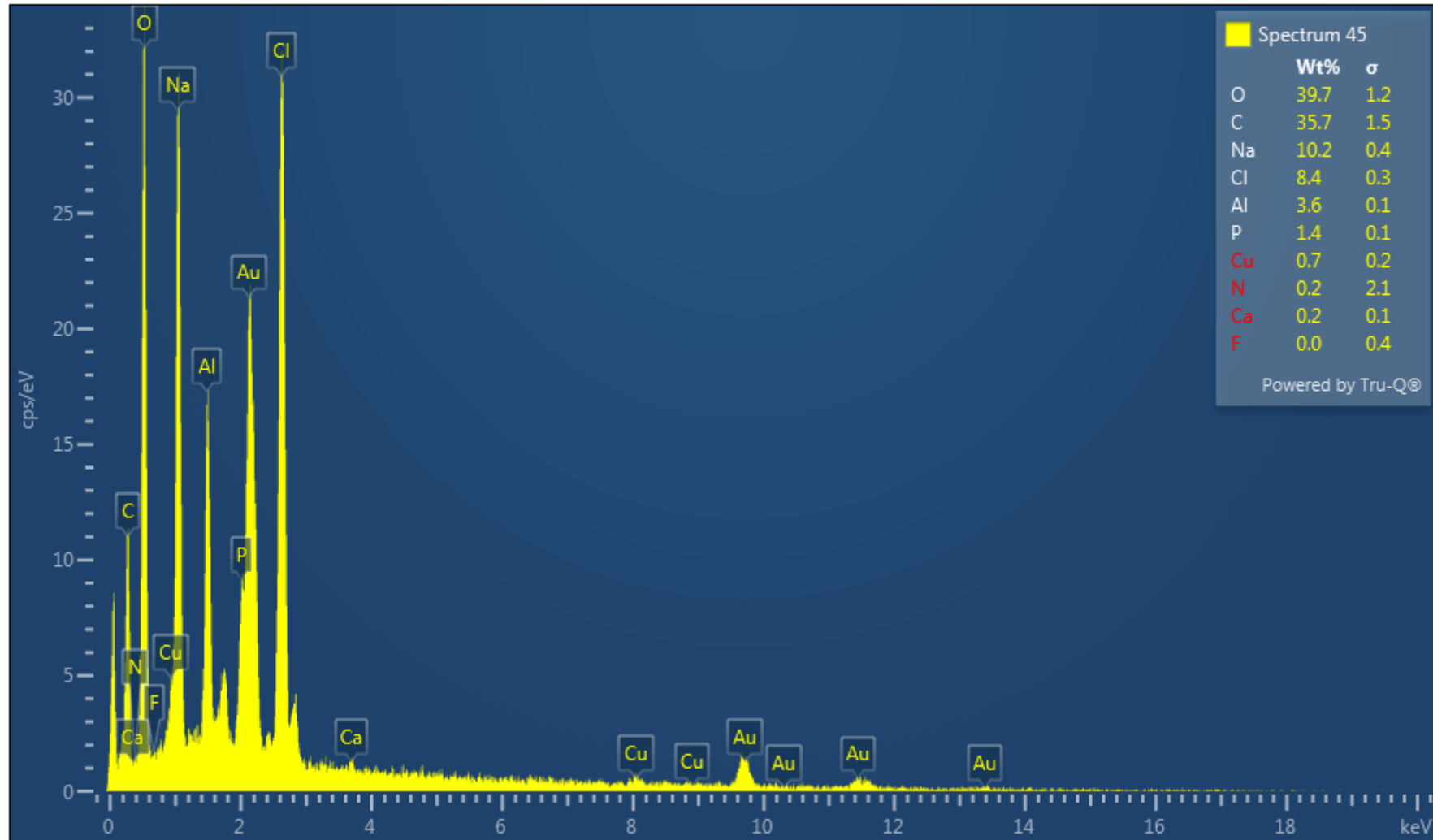
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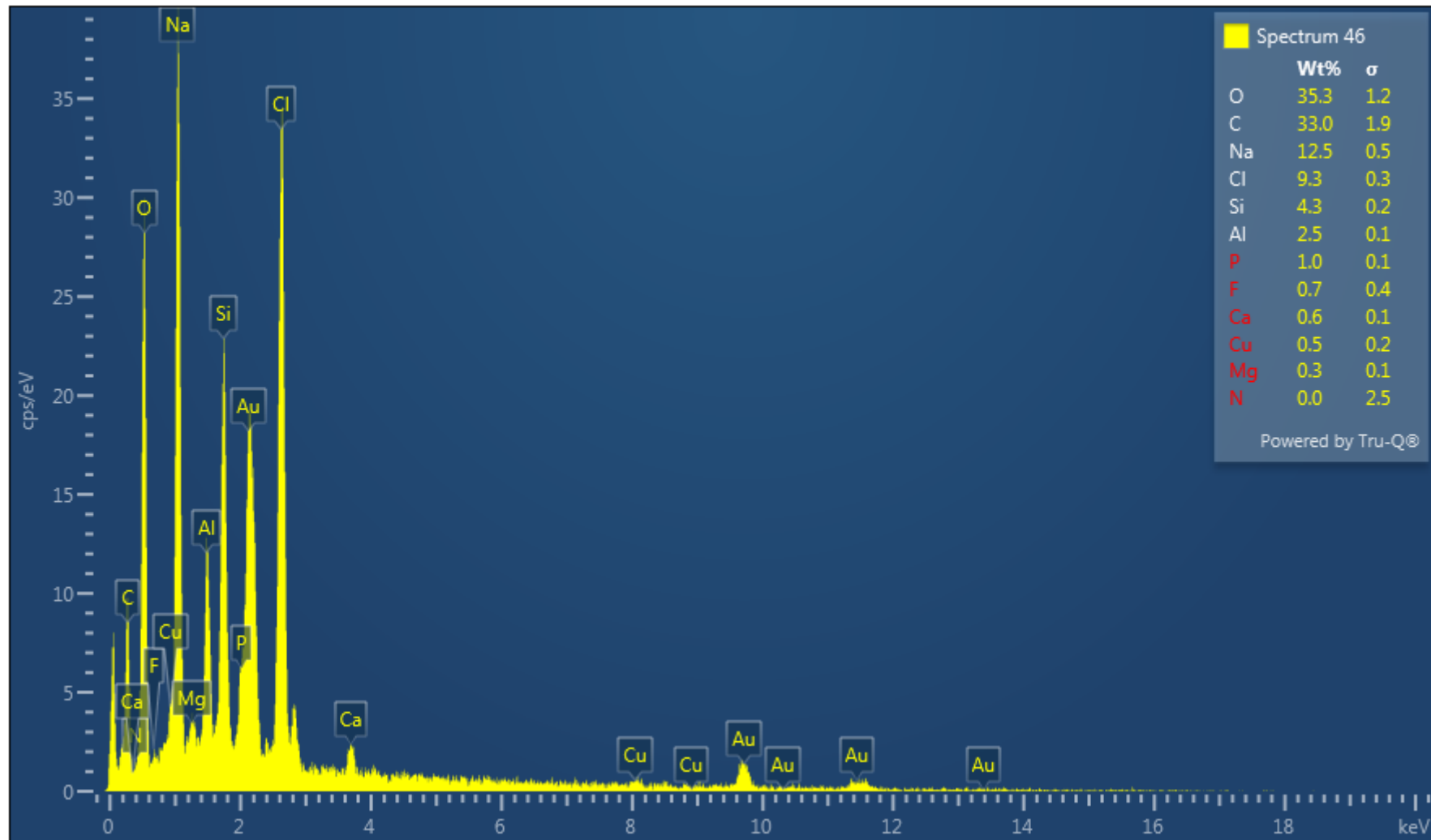
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Spectrum 45								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	0.75	0.00752	35.66	1.48	C Vit	Yes	
N	K series	0.01	0.00002	0.17	2.13	BN	Yes	
O	K series	3.63	0.01221	39.73	1.24	SiO2	Yes	
F	K series	0.00	0.00000	0.00	0.39	CaF2	Yes	
Na	K series	1.68	0.00710	10.16	0.36	Albite	Yes	
Al	K series	0.57	0.00407	3.62	0.15	Al2O3	Yes	
P	K series	0.38	0.00215	1.44	0.12	GaP	Yes	
Cl	K series	1.52	0.01327	8.39	0.28	NaCl	Yes	
Ca	K series	0.03	0.00027	0.16	0.05	Wollastonite	Yes	
Cu	K series	0.11	0.00110	0.68	0.16	Cu	Yes	
Total:				100.00				



Spectrum 46								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	0.59	0.00588	32.96	1.94	C Vit	Yes	
N	K series	0.00	0.00000	0.00	2.52	BN	Yes	
O	K series	3.14	0.01058	35.34	1.18	SiO2	Yes	
F	K series	0.08	0.00016	0.67	0.43	CaF2	Yes	
Na	K series	2.16	0.00911	12.47	0.45	Albite	Yes	
Mg	K series	0.04	0.00029	0.33	0.10	MgO	Yes	
Al	K series	0.38	0.00274	2.46	0.14	Al2O3	Yes	
Si	K series	0.74	0.00585	4.33	0.18	SiO2	Yes	
P	K series	0.26	0.00143	1.00	0.14	GaP	Yes	
Cl	K series	1.65	0.01440	9.31	0.32	NaCl	Yes	
Ca	K series	0.12	0.00103	0.60	0.08	Wollastonite	Yes	
Cu	K series	0.09	0.00087	0.54	0.18	Cu	Yes	
Total:				100.00				

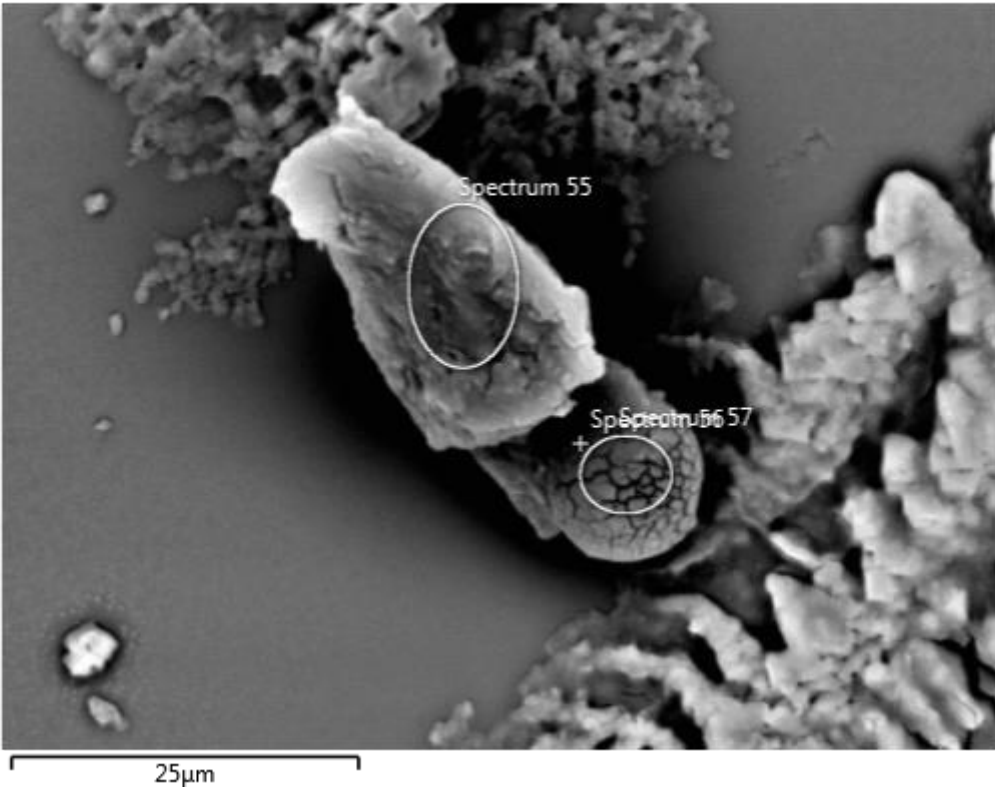
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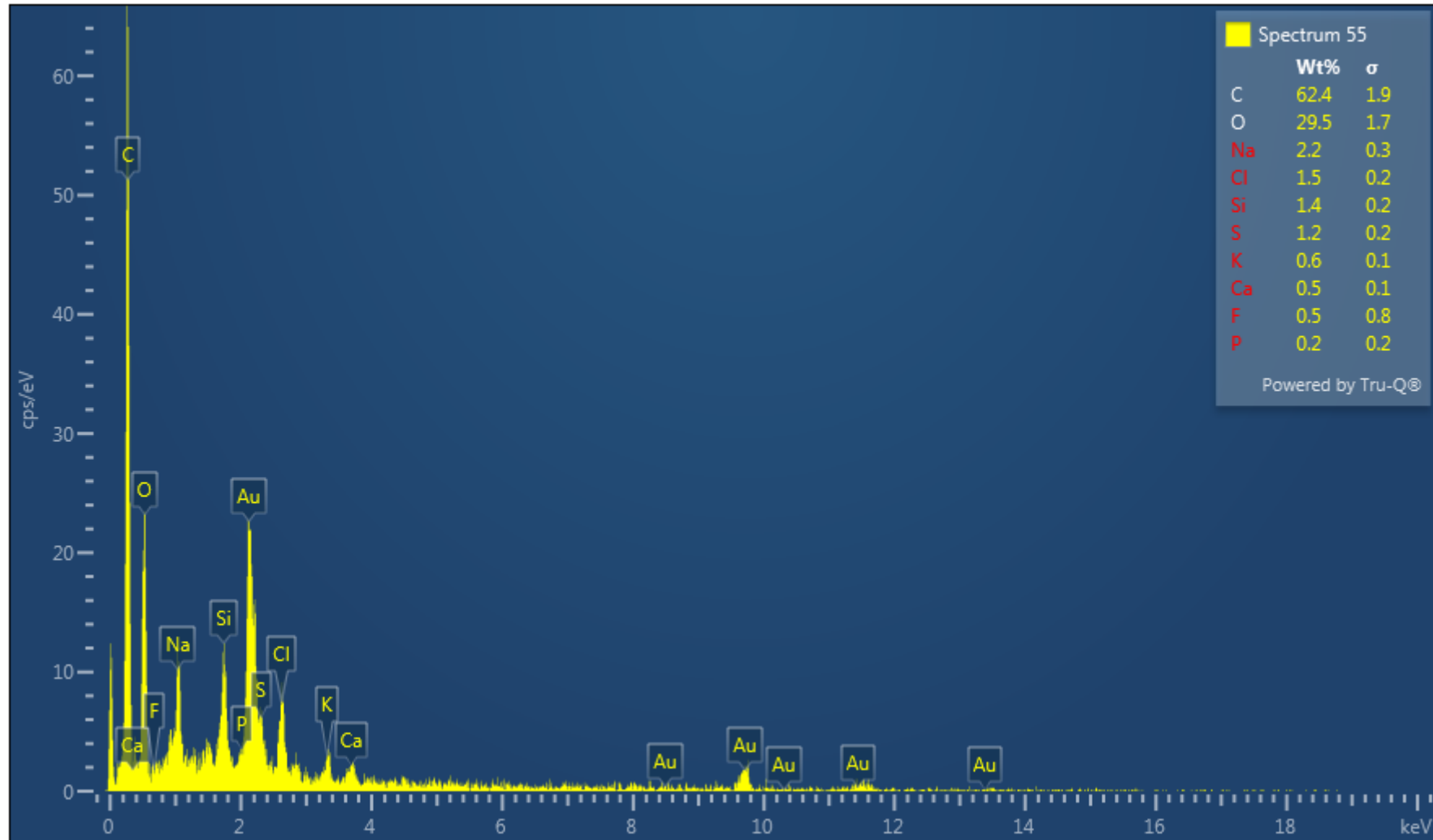
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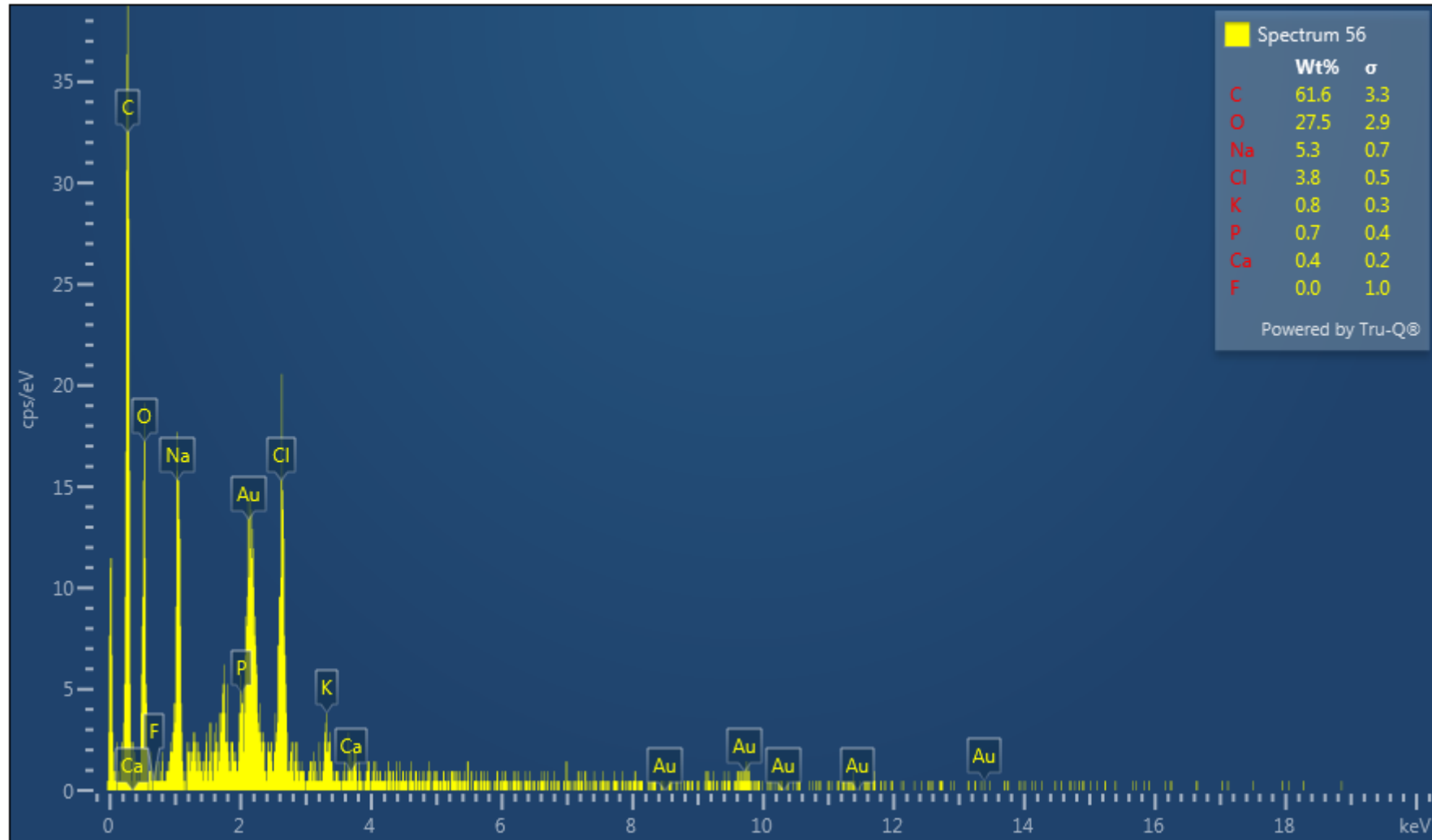
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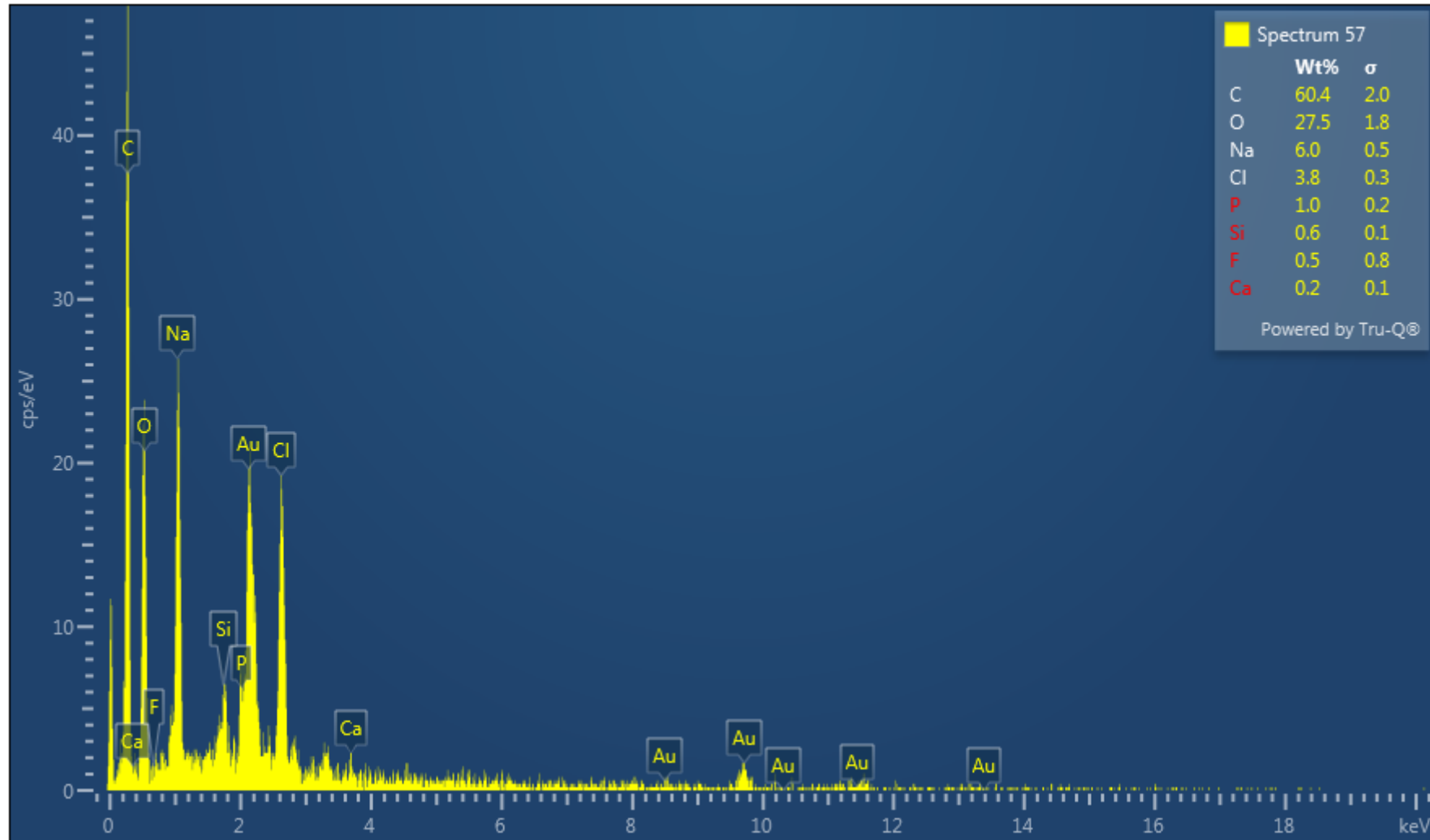




Spectrum 55								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	3.39	0.03388	62.45	1.89	C Vit	Yes	
O	K series	2.15	0.00725	29.54	1.73	SiO2	Yes	
F	K series	0.06	0.00011	0.46	0.80	CaF2	Yes	
Na	K series	0.42	0.00177	2.24	0.29	Albite	Yes	
Si	K series	0.30	0.00235	1.38	0.16	SiO2	Yes	
P	K series	0.05	0.00030	0.17	0.19	GaP	Yes	
S	K series	0.24	0.00208	1.16	0.19	FeS2	Yes	
Cl	K series	0.31	0.00272	1.50	0.16	NaCl	Yes	
K	K series	0.13	0.00113	0.59	0.12	KBr	Yes	
Ca	K series	0.11	0.00100	0.51	0.12	Wollastonite	Yes	
Total:				100.00				



Spectrum 56								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	2.45	0.02451	61.58	3.33	C Vit	Yes	
O	K series	1.70	0.00572	27.53	2.95	SiO2	Yes	
F	K series	0.00	0.00000	0.00	1.00	CaF2	Yes	
Na	K series	0.87	0.00367	5.28	0.69	Albite	Yes	
P	K series	0.18	0.00101	0.66	0.35	GaP	Yes	
Cl	K series	0.68	0.00598	3.82	0.48	NaCl	Yes	
K	K series	0.15	0.00123	0.76	0.25	KBr	Yes	
Ca	K series	0.07	0.00063	0.38	0.22	Wollastonite	Yes	
Total:				100.00				



Spectrum 57								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	2.67	0.02669	60.45	1.96	C Vit	Yes	
O	K series	2.09	0.00704	27.50	1.82	SiO2	Yes	
F	K series	0.07	0.00013	0.50	0.77	CaF2	Yes	
Na	K series	1.19	0.00504	6.04	0.47	Albite	Yes	
Si	K series	0.12	0.00097	0.57	0.15	SiO2	Yes	
P	K series	0.31	0.00172	0.95	0.23	GaP	Yes	
Cl	K series	0.80	0.00696	3.76	0.28	NaCl	Yes	
Ca	K series	0.05	0.00046	0.23	0.12	Wollastonite	Yes	
Total:				100.00				

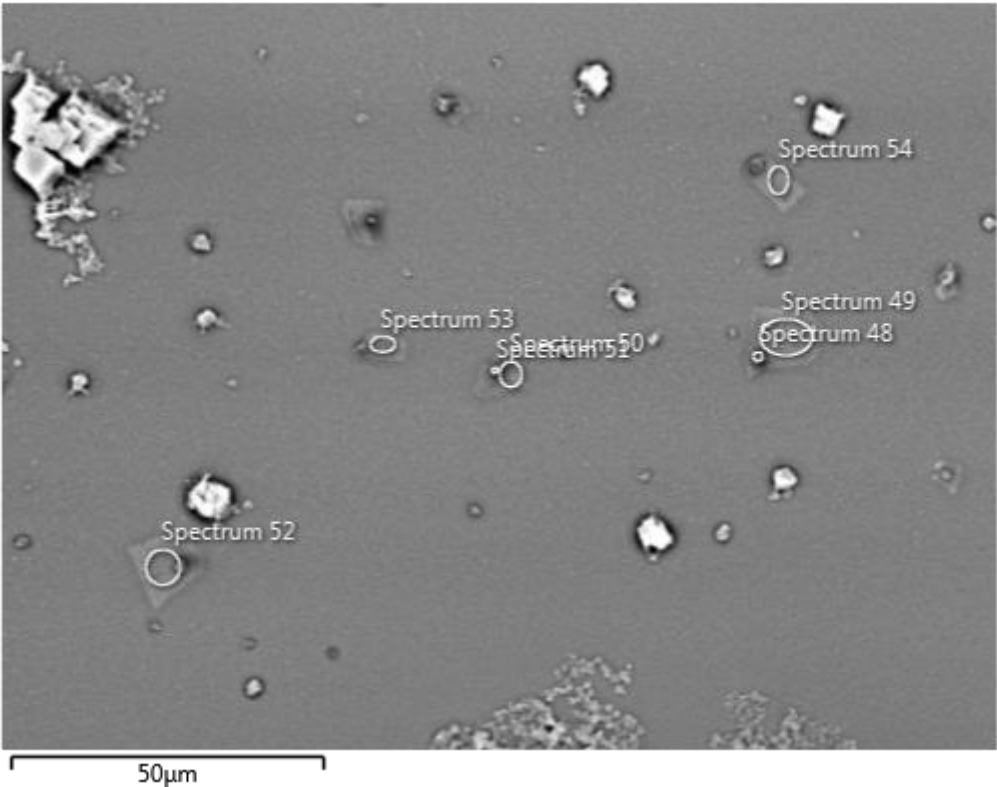
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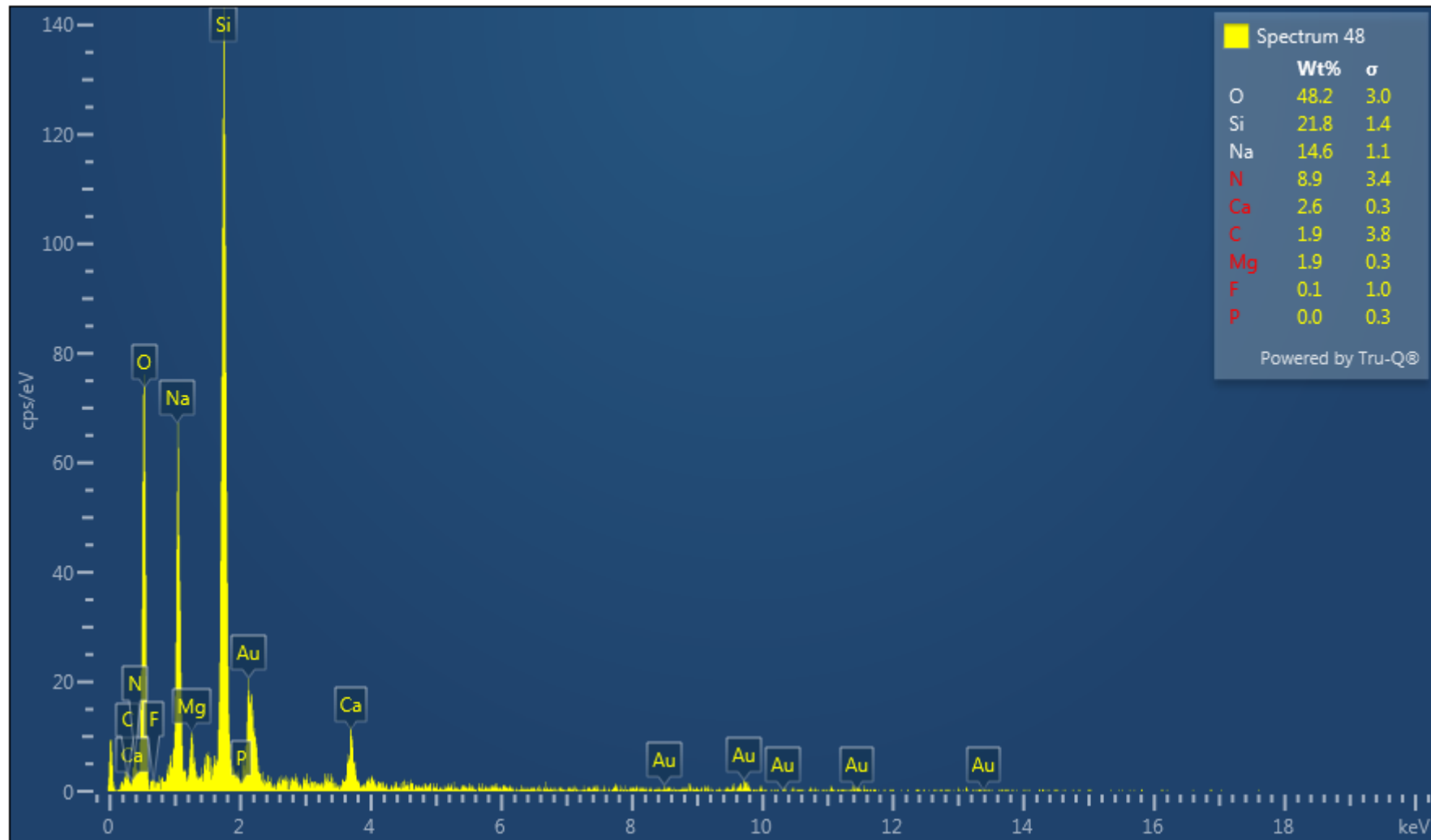
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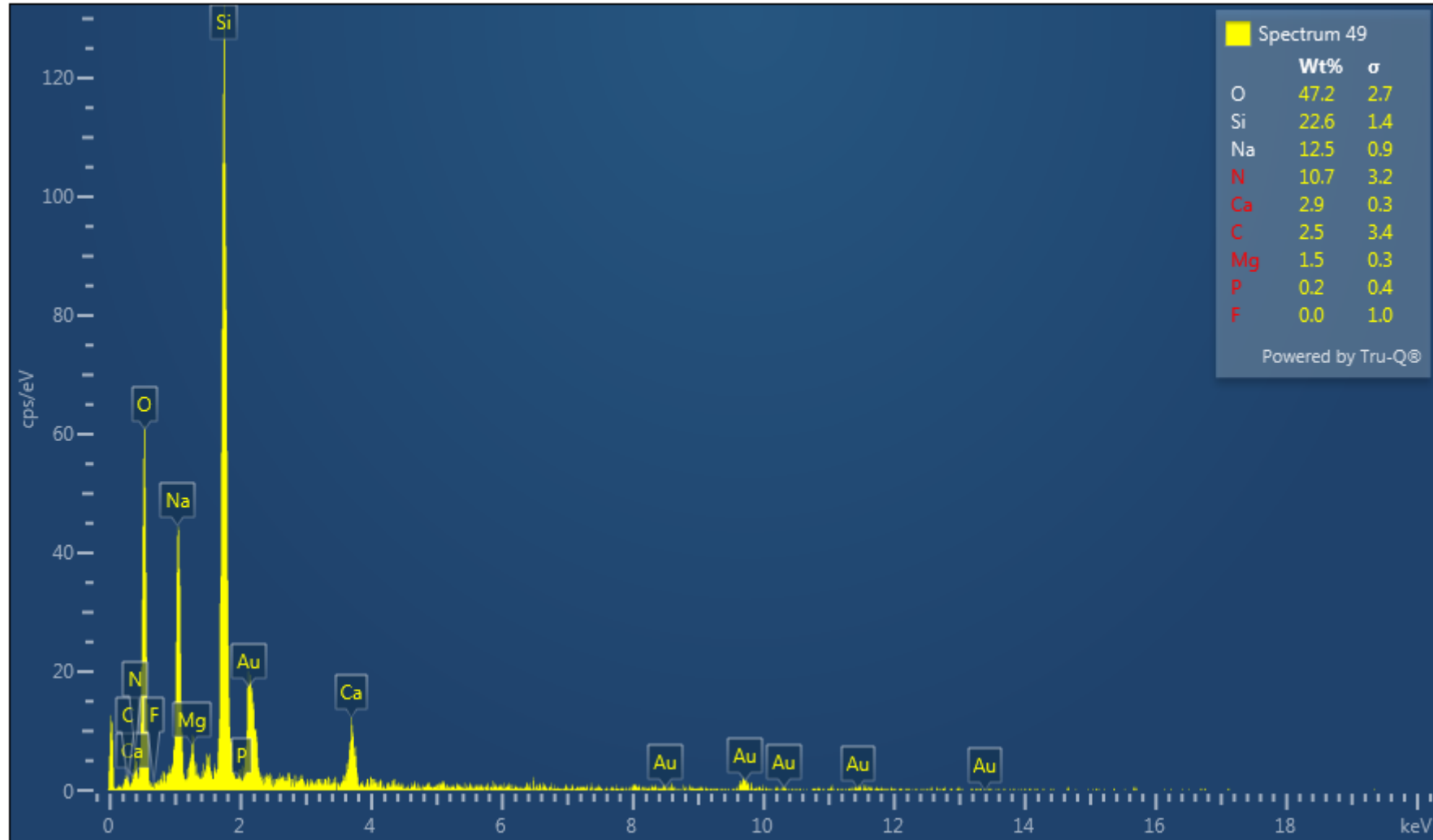
Specimen Notes

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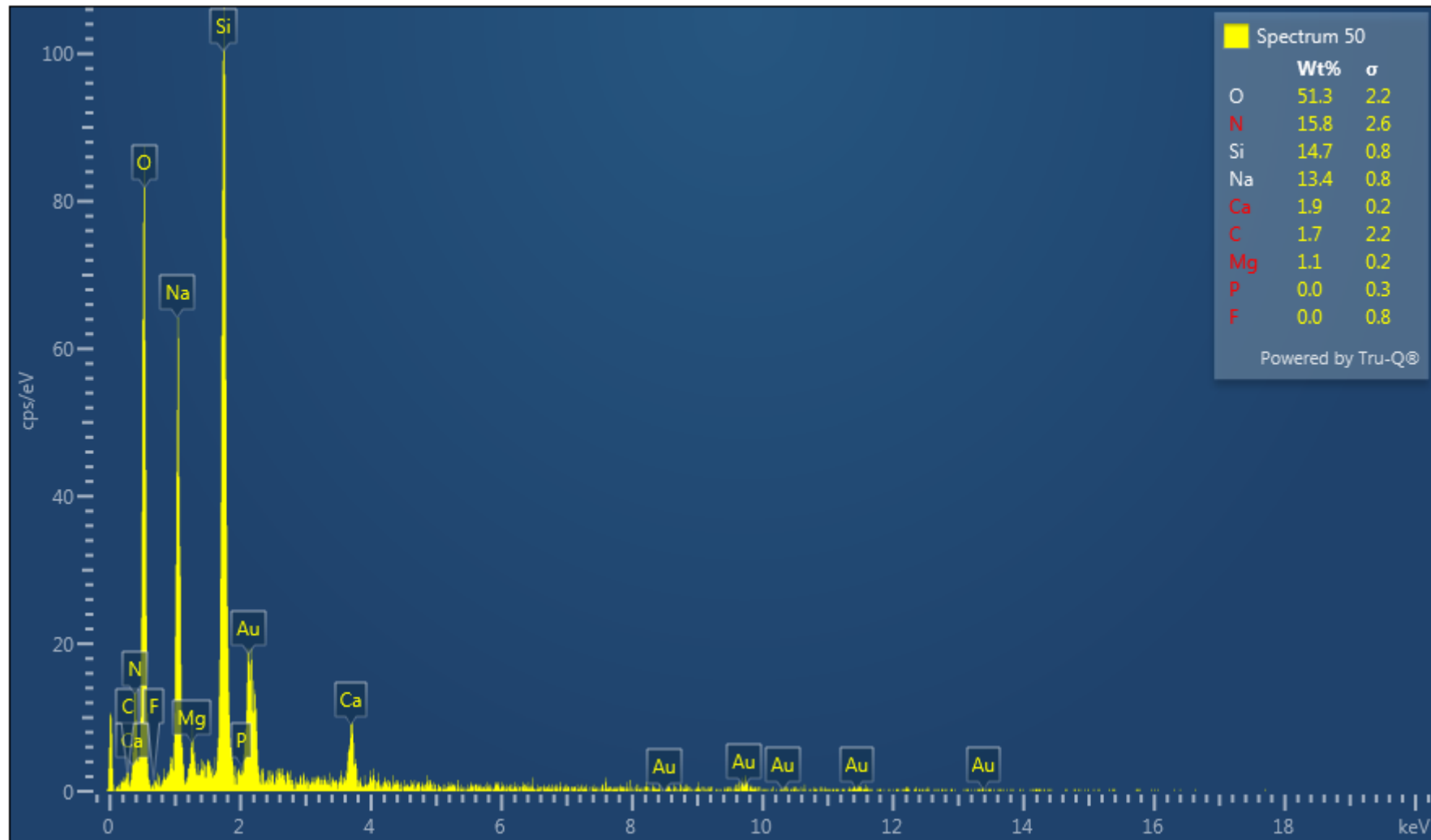




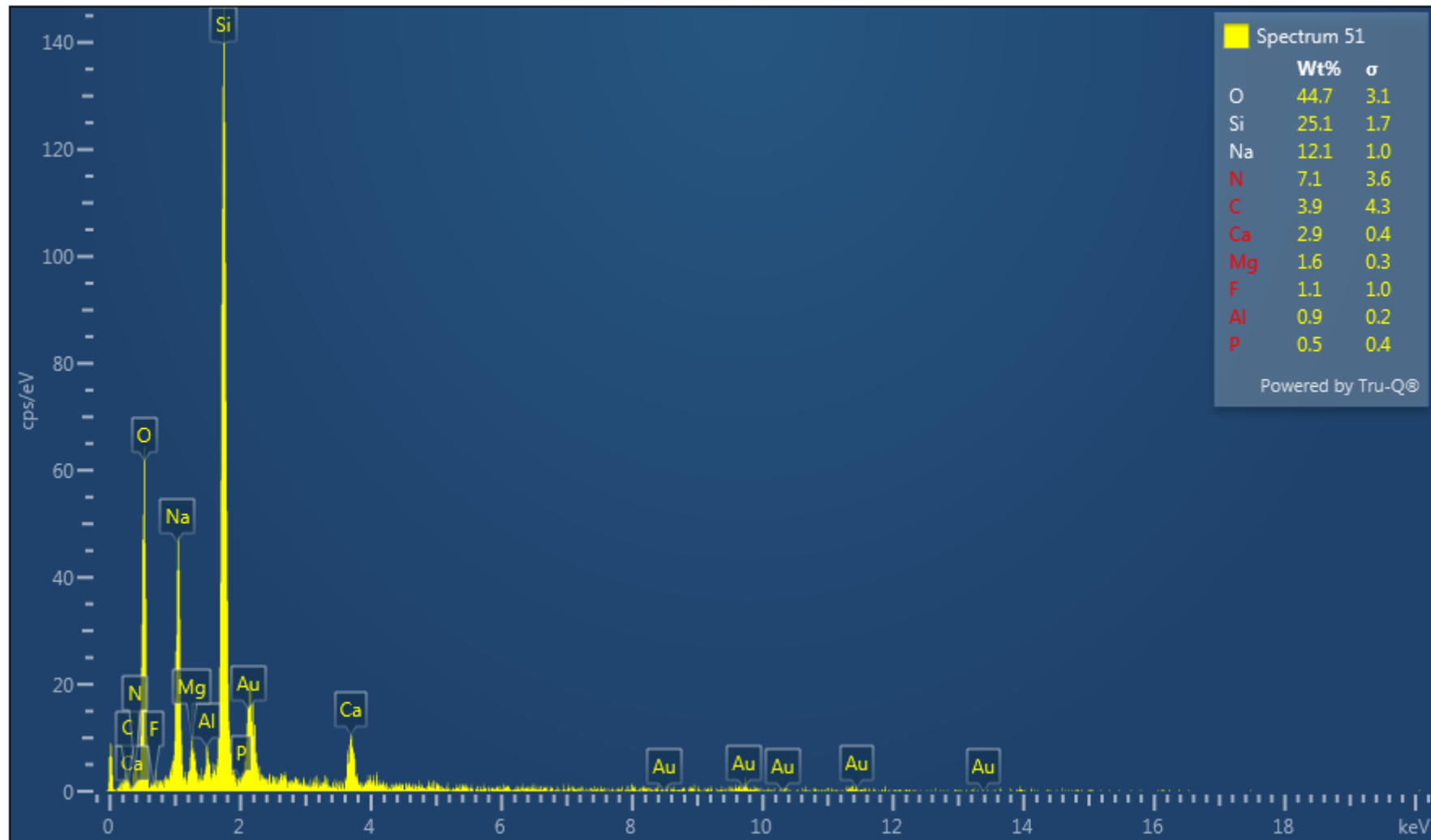
Spectrum 48								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	0.04	0.00040	1.91	3.78	C Vit	Yes	
N	K series	1.83	0.00325	8.87	3.42	BN	Yes	
O	K series	7.29	0.02452	48.22	2.95	SiO2	Yes	
F	K series	0.01	0.00002	0.09	1.05	CaF2	Yes	
Na	K series	3.02	0.01273	14.61	1.10	Albite	Yes	
Mg	K series	0.29	0.00190	1.89	0.34	MgO	Yes	
Si	K series	4.54	0.03598	21.84	1.42	SiO2	Yes	
P	K series	0.00	0.00002	0.02	0.34	GaP	Yes	
Ca	K series	0.61	0.00544	2.56	0.33	Wollastonite	Yes	
Total:				100.00				



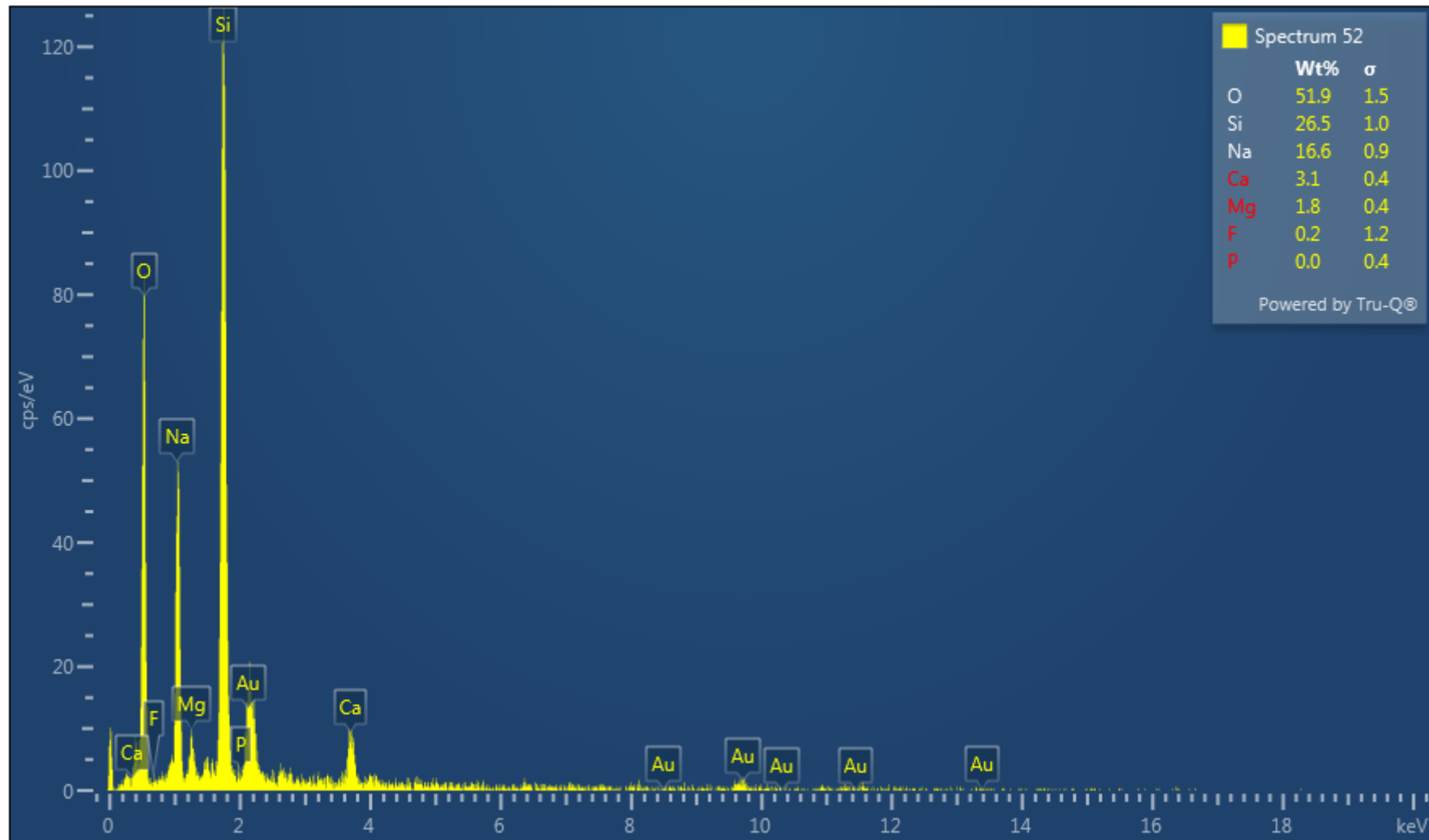
Spectrum 49								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	0.05	0.00048	2.48	3.36	C Vit	Yes	
N	K series	1.95	0.00348	10.75	3.19	BN	Yes	
O	K series	5.96	0.02005	47.18	2.74	SiO2	Yes	
F	K series	0.00	0.00000	0.00	0.96	CaF2	Yes	
Na	K series	2.33	0.00982	12.50	0.94	Albite	Yes	
Mg	K series	0.21	0.00140	1.49	0.32	MgO	Yes	
Si	K series	4.36	0.03454	22.55	1.37	SiO2	Yes	
P	K series	0.04	0.00023	0.17	0.36	GaP	Yes	
Ca	K series	0.62	0.00556	2.87	0.35	Wollastonite	Yes	
Total:				100.00				



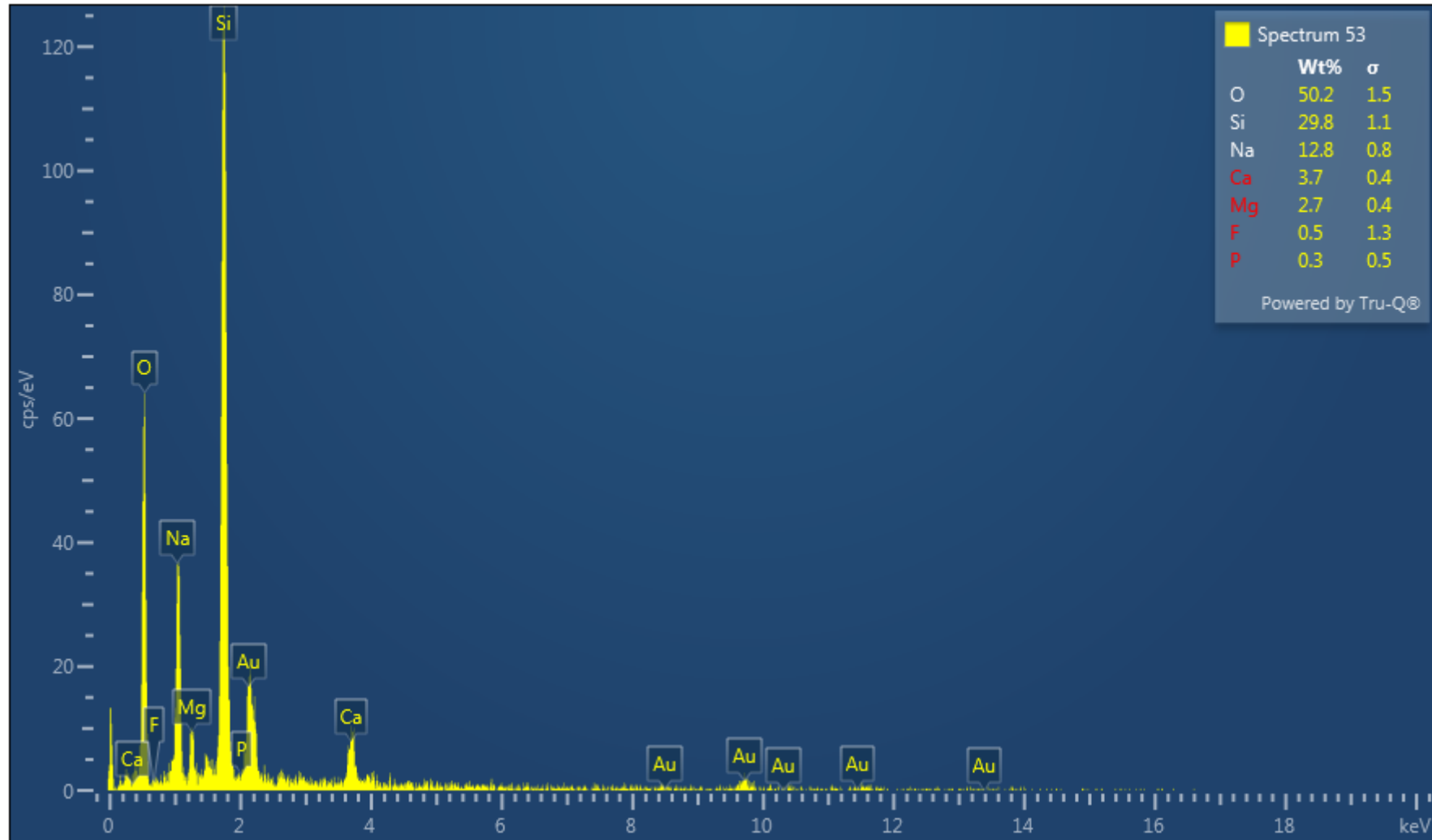
Spectrum 50								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	0.05	0.00053	1.75	2.16	C Vit	Yes	
N	K series	4.72	0.00841	15.83	2.58	BN	Yes	
O	K series	8.13	0.02737	51.30	2.23	SiO2	Yes	
F	K series	0.00	0.00000	0.00	0.77	CaF2	Yes	
Na	K series	2.97	0.01254	13.42	0.80	Albite	Yes	
Mg	K series	0.19	0.00128	1.14	0.24	MgO	Yes	
Si	K series	3.47	0.02750	14.66	0.76	SiO2	Yes	
P	K series	0.00	0.00002	0.01	0.25	GaP	Yes	
Ca	K series	0.52	0.00467	1.89	0.24	Wollastonite	Yes	
Total:				100.00				



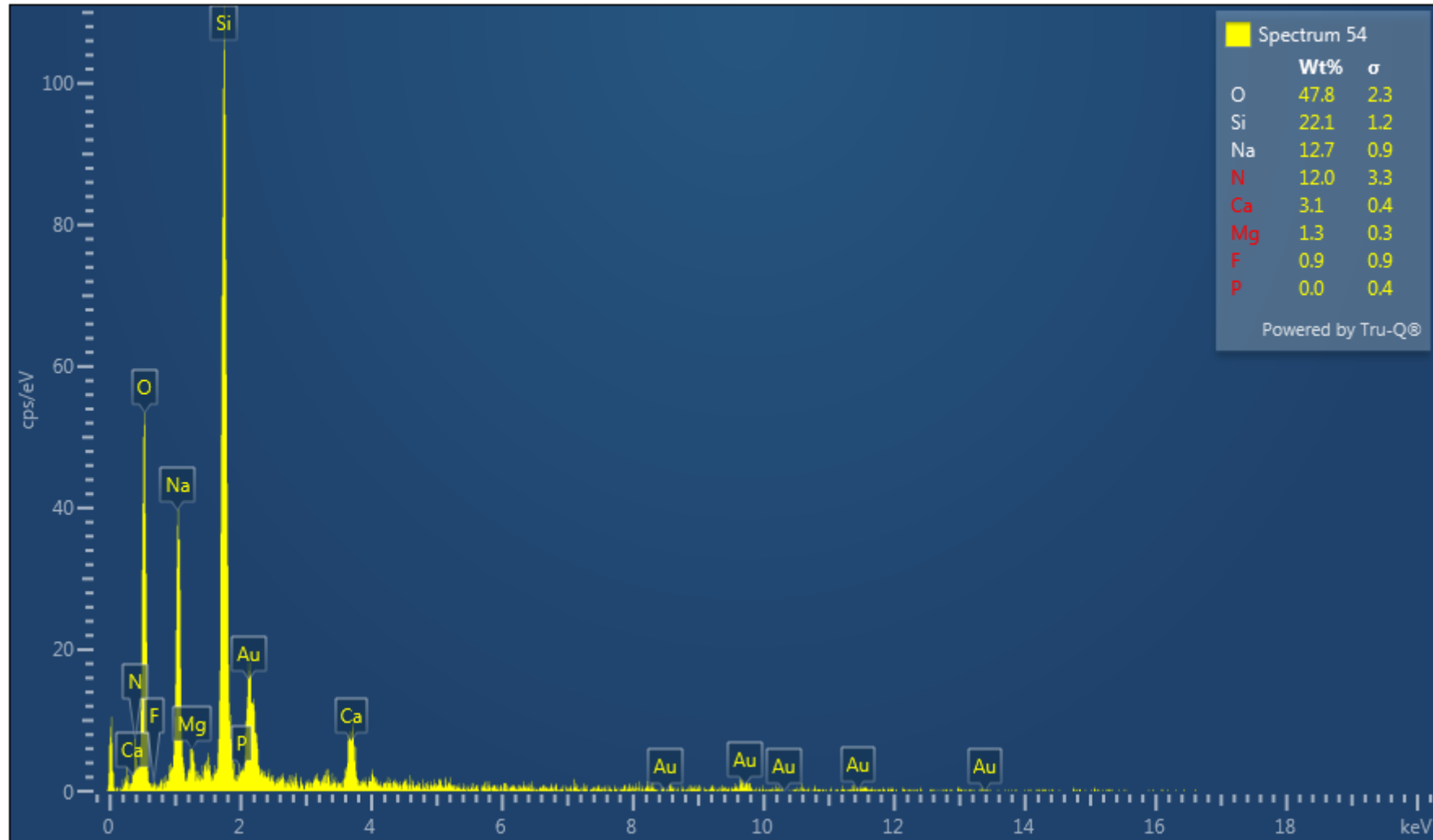
Spectrum 51								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	0.07	0.00068	3.92	4.33	C Vit	Yes	
N	K series	1.12	0.00199	7.08	3.63	BN	Yes	
O	K series	5.69	0.01915	44.74	3.08	SiO2	Yes	
F	K series	0.15	0.00029	1.14	1.04	CaF2	Yes	
Na	K series	2.27	0.00959	12.14	1.02	Albite	Yes	
Mg	K series	0.22	0.00148	1.56	0.34	MgO	Yes	
Al	K series	0.15	0.00108	0.90	0.25	Al2O3	Yes	
Si	K series	4.76	0.03773	25.12	1.74	SiO2	Yes	
P	K series	0.11	0.00059	0.47	0.35	GaP	Yes	
Ca	K series	0.62	0.00553	2.94	0.38	Wollastonite	Yes	
Total:				100.00				



Spectrum 52								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
O	K series	7.73	0.02602	51.93	1.46	SiO2	Yes	
F	K series	0.02	0.00004	0.19	1.22	CaF2	Yes	
Na	K series	2.70	0.01140	16.55	0.87	Albite	Yes	
Mg	K series	0.20	0.00135	1.76	0.39	MgO	Yes	
Si	K series	4.22	0.03346	26.46	0.97	SiO2	Yes	
P	K series	0.00	0.00000	0.00	0.43	GaP	Yes	
Ca	K series	0.56	0.00504	3.10	0.38	Wollastonite	Yes	
Total:				100.00				



Spectrum 53								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
O	K series	6.17	0.02077	50.15	1.54	SiO2	Yes	
F	K series	0.05	0.00009	0.47	1.25	CaF2	Yes	
Na	K series	1.88	0.00795	12.83	0.81	Albite	Yes	
Mg	K series	0.30	0.00198	2.71	0.40	MgO	Yes	
Si	K series	4.38	0.03473	29.83	1.07	SiO2	Yes	
P	K series	0.05	0.00028	0.30	0.48	GaP	Yes	
Ca	K series	0.60	0.00538	3.71	0.42	Wollastonite	Yes	
Total:				100.00				



Spectrum 54								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
N	K series	1.98	0.00353	12.01	3.26	BN	Yes	
O	K series	5.07	0.01708	47.80	2.33	SiO2	Yes	
F	K series	0.10	0.00019	0.95	0.91	CaF2	Yes	
Na	K series	1.95	0.00822	12.68	0.88	Albite	Yes	
Mg	K series	0.15	0.00100	1.28	0.30	MgO	Yes	
Si	K series	3.57	0.02832	22.14	1.17	SiO2	Yes	
P	K series	0.00	0.00000	0.00	0.39	GaP	Yes	
Ca	K series	0.57	0.00510	3.13	0.36	Wollastonite	Yes	
Total:				100.00				

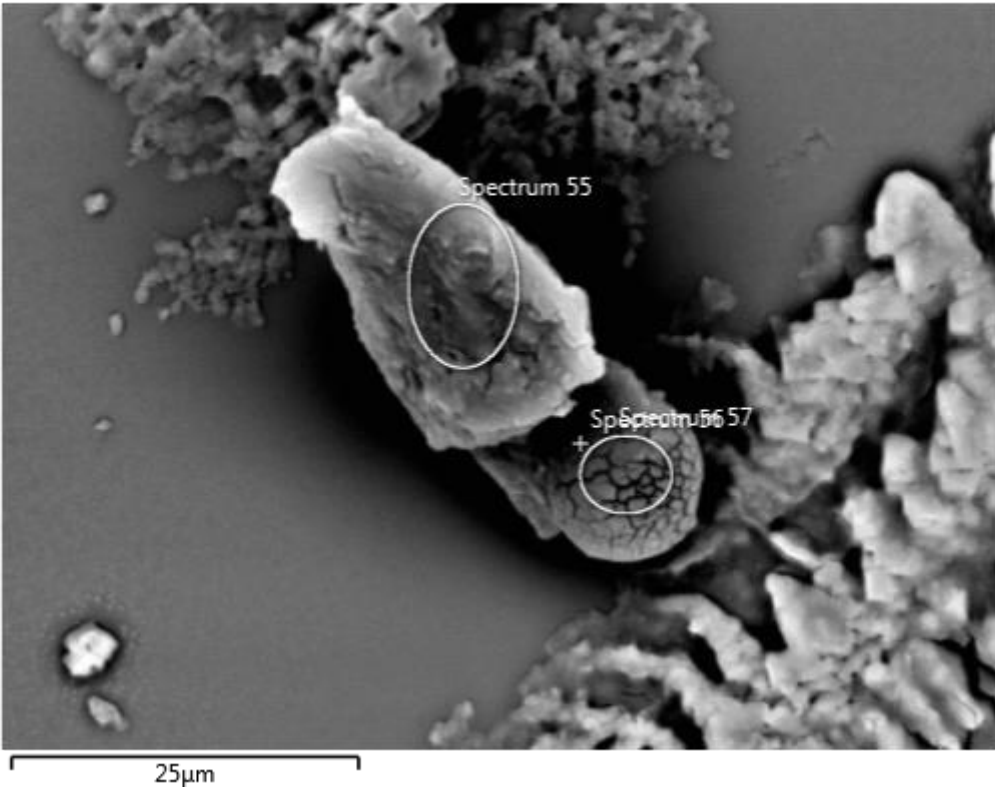
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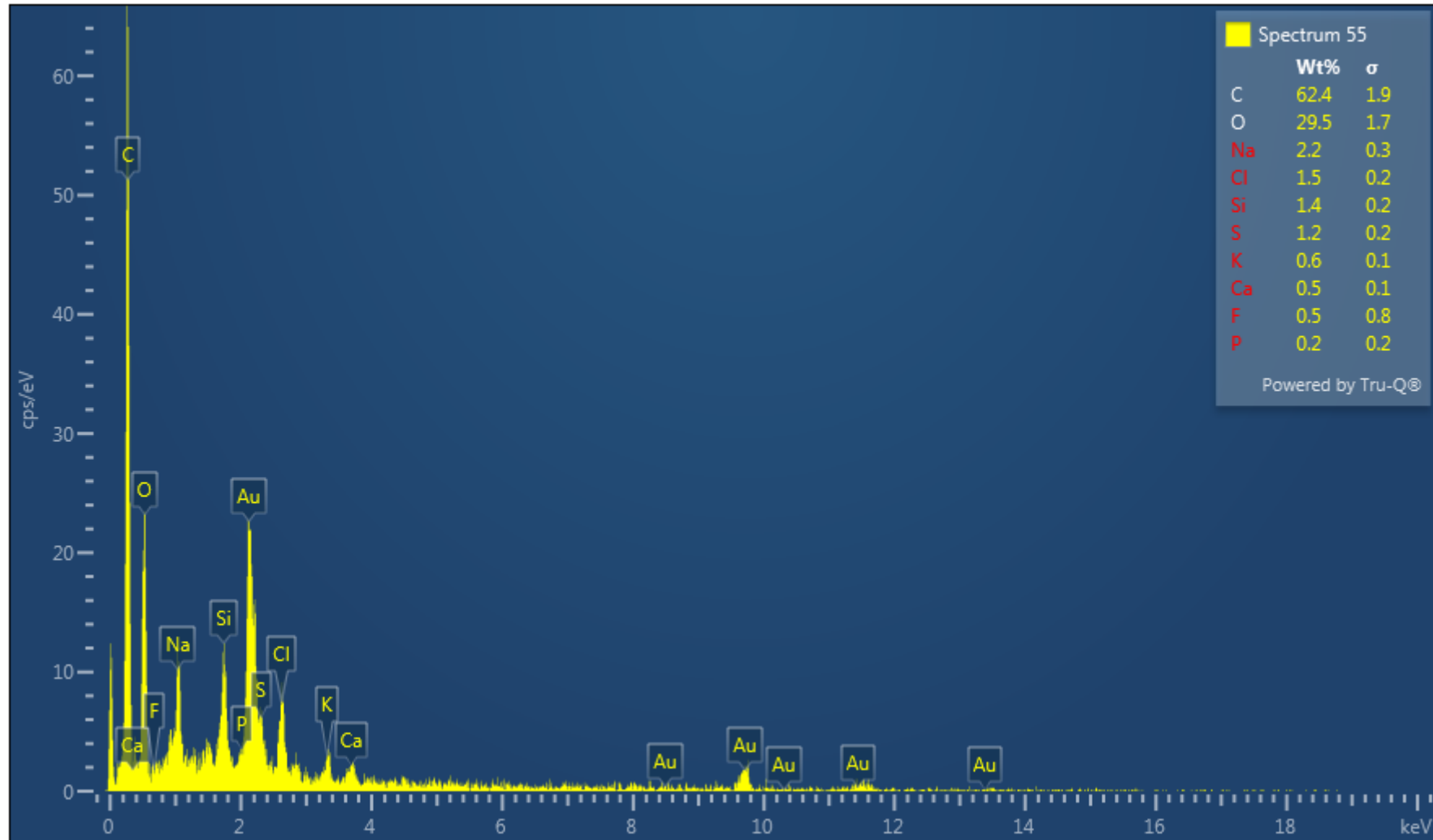
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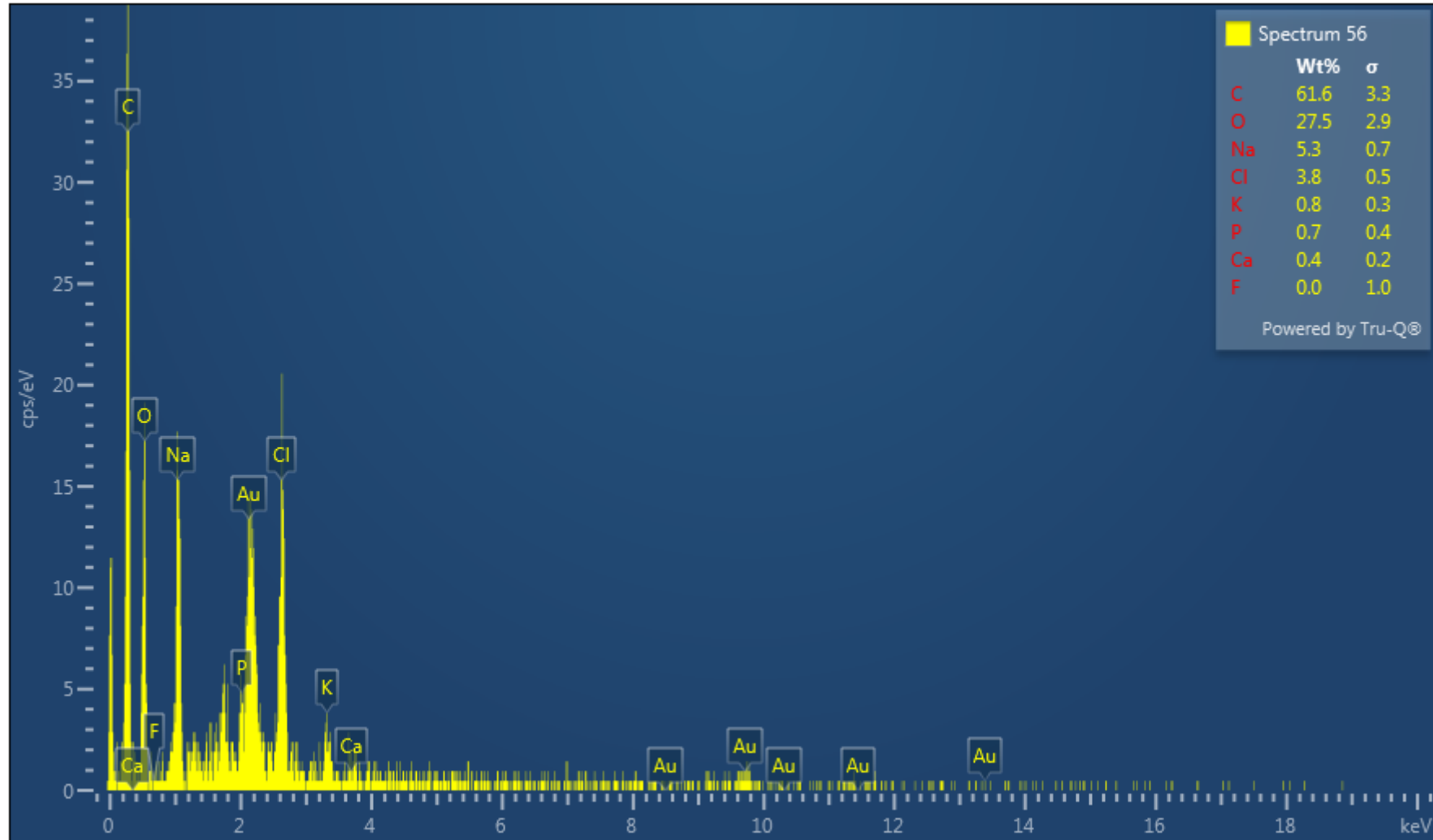
Specimen Notes

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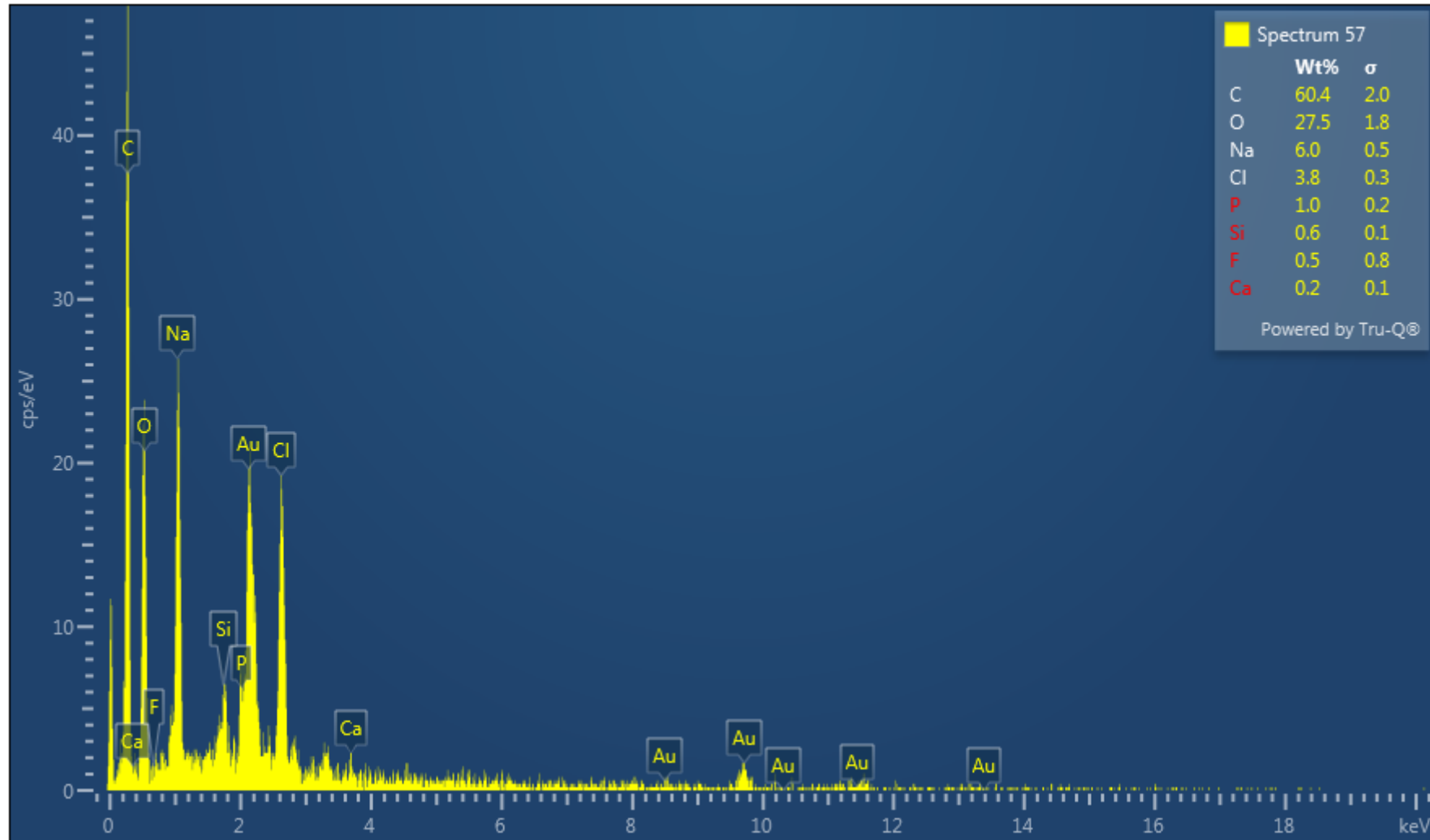




Spectrum 55								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	3.39	0.03388	62.45	1.89	C Vit	Yes	
O	K series	2.15	0.00725	29.54	1.73	SiO2	Yes	
F	K series	0.06	0.00011	0.46	0.80	CaF2	Yes	
Na	K series	0.42	0.00177	2.24	0.29	Albite	Yes	
Si	K series	0.30	0.00235	1.38	0.16	SiO2	Yes	
P	K series	0.05	0.00030	0.17	0.19	GaP	Yes	
S	K series	0.24	0.00208	1.16	0.19	FeS2	Yes	
Cl	K series	0.31	0.00272	1.50	0.16	NaCl	Yes	
K	K series	0.13	0.00113	0.59	0.12	KBr	Yes	
Ca	K series	0.11	0.00100	0.51	0.12	Wollastonite	Yes	
Total:				100.00				



Spectrum 56								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	2.45	0.02451	61.58	3.33	C Vit	Yes	
O	K series	1.70	0.00572	27.53	2.95	SiO2	Yes	
F	K series	0.00	0.00000	0.00	1.00	CaF2	Yes	
Na	K series	0.87	0.00367	5.28	0.69	Albite	Yes	
P	K series	0.18	0.00101	0.66	0.35	GaP	Yes	
Cl	K series	0.68	0.00598	3.82	0.48	NaCl	Yes	
K	K series	0.15	0.00123	0.76	0.25	KBr	Yes	
Ca	K series	0.07	0.00063	0.38	0.22	Wollastonite	Yes	
Total:				100.00				



Spectrum 57								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	2.67	0.02669	60.45	1.96	C Vit	Yes	
O	K series	2.09	0.00704	27.50	1.82	SiO2	Yes	
F	K series	0.07	0.00013	0.50	0.77	CaF2	Yes	
Na	K series	1.19	0.00504	6.04	0.47	Albite	Yes	
Si	K series	0.12	0.00097	0.57	0.15	SiO2	Yes	
P	K series	0.31	0.00172	0.95	0.23	GaP	Yes	
Cl	K series	0.80	0.00696	3.76	0.28	NaCl	Yes	
Ca	K series	0.05	0.00046	0.23	0.12	Wollastonite	Yes	
Total:				100.00				

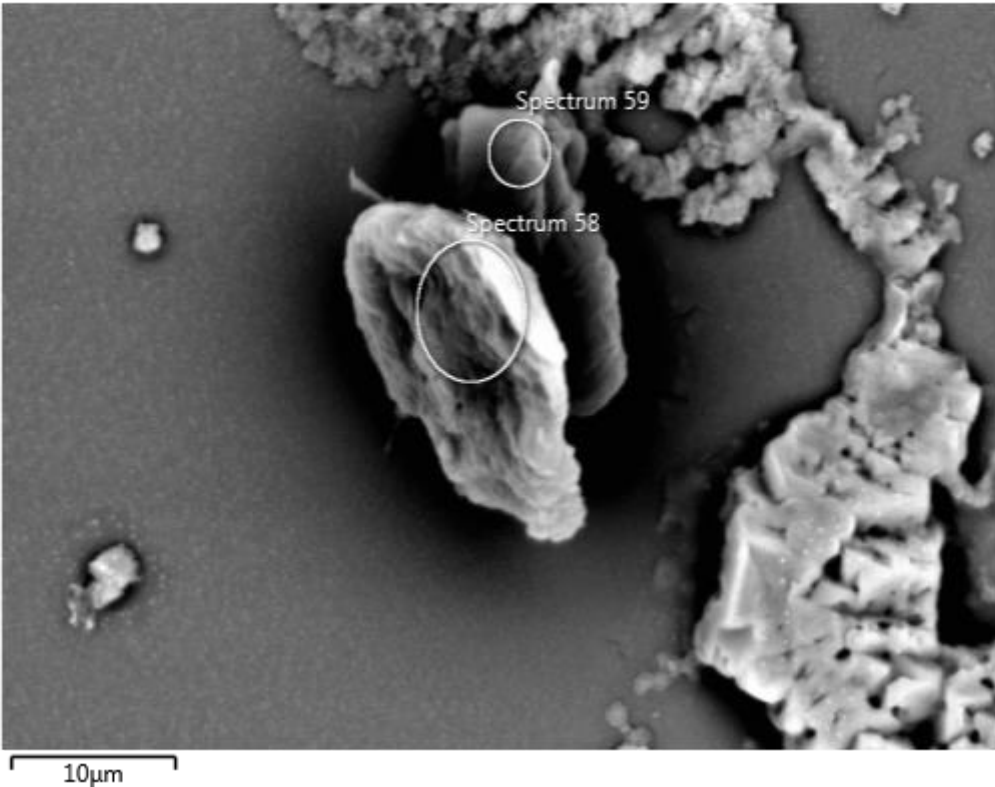
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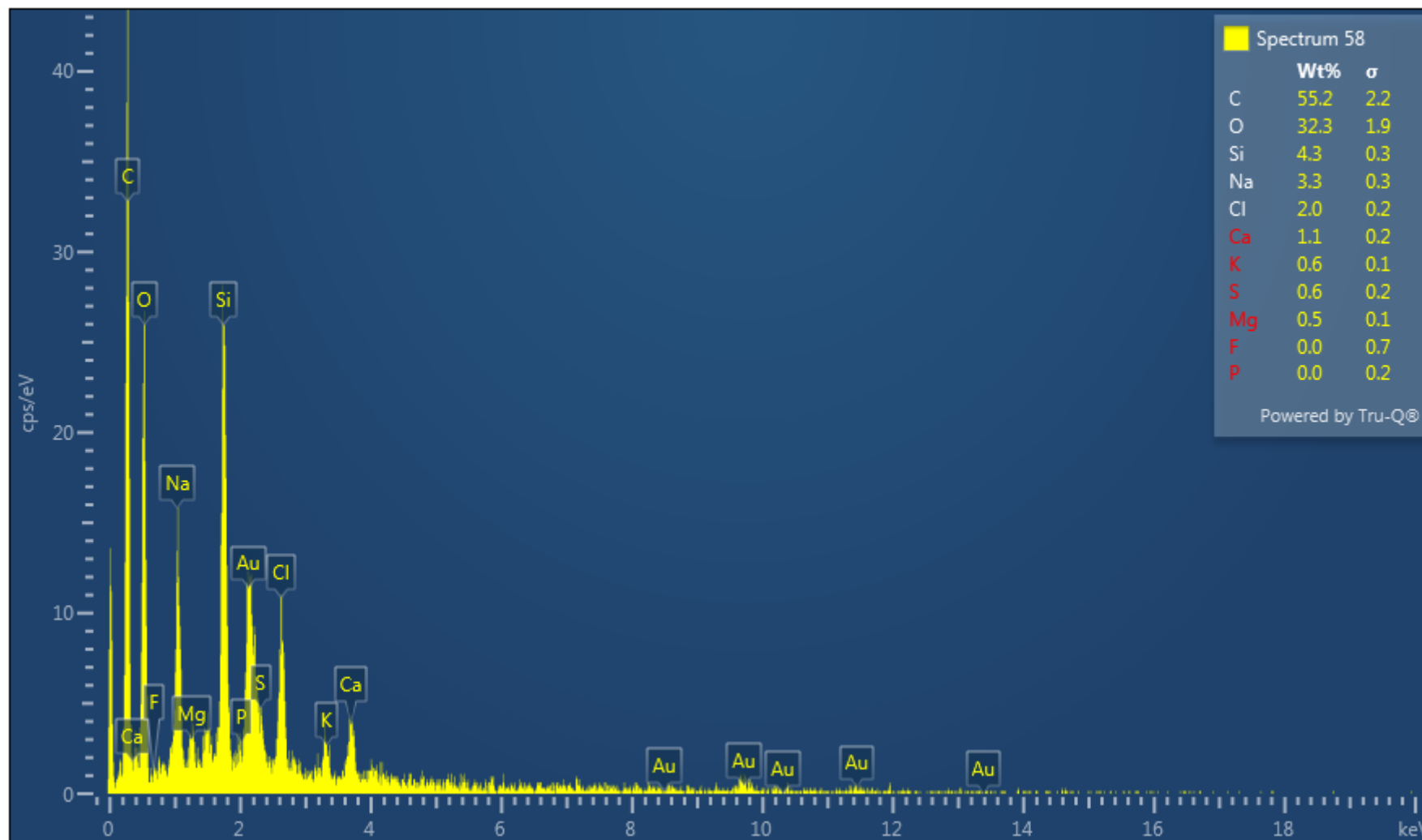
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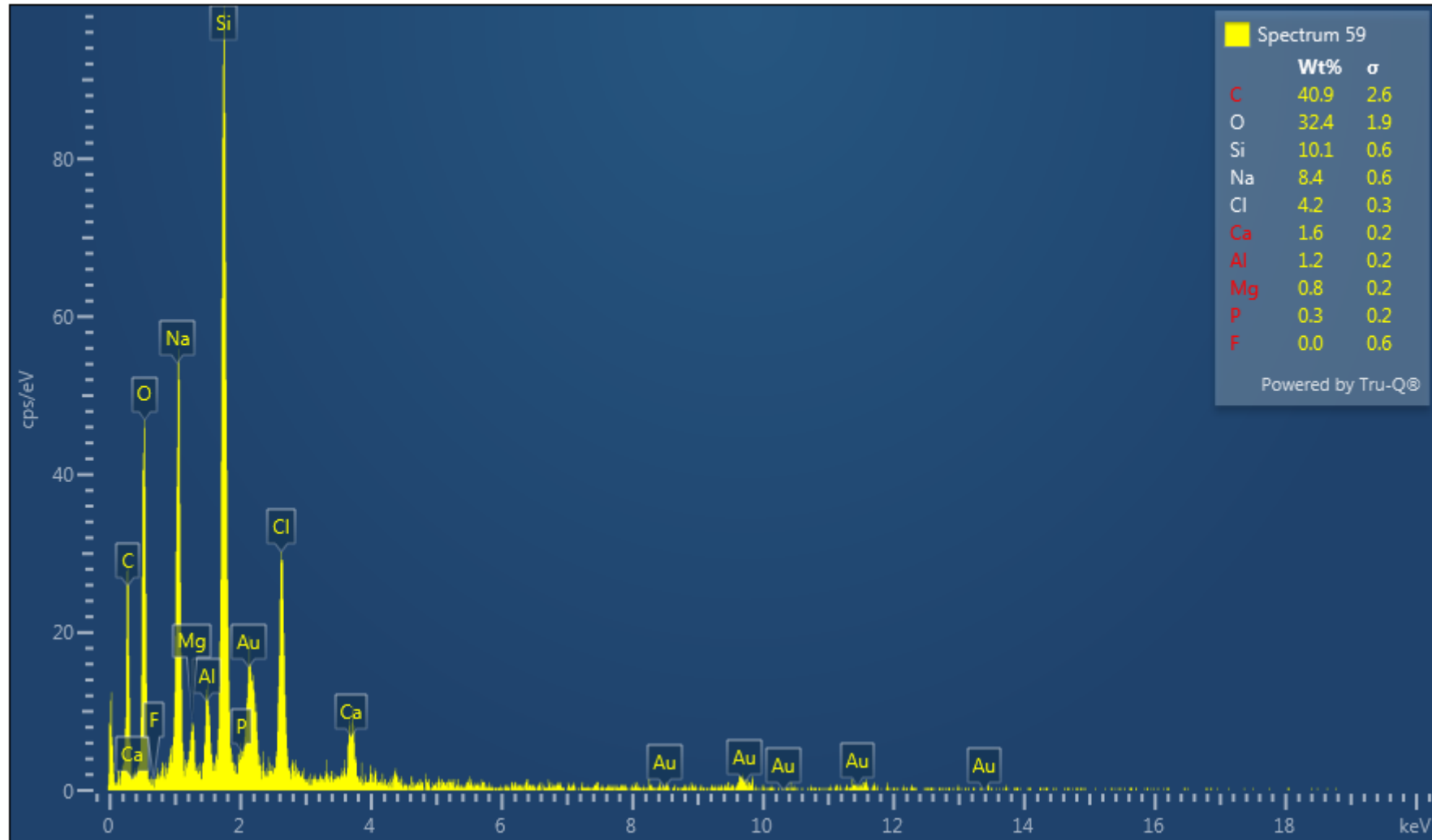
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Spectrum 58								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	2.27	0.02270	55.22	2.19	C Vit	Yes	
O	K series	2.42	0.00813	32.34	1.88	SiO2	Yes	
F	K series	0.00	0.00000	0.01	0.69	CaF2	Yes	
Na	K series	0.59	0.00248	3.28	0.34	Albite	Yes	
Mg	K series	0.08	0.00053	0.51	0.14	MgO	Yes	
Si	K series	0.87	0.00692	4.33	0.29	SiO2	Yes	
P	K series	0.00	0.00000	0.00	0.18	GaP	Yes	
S	K series	0.11	0.00099	0.59	0.18	FeS2	Yes	
Cl	K series	0.39	0.00345	2.02	0.20	NaCl	Yes	
K	K series	0.13	0.00111	0.61	0.14	KBr	Yes	
Ca	K series	0.23	0.00205	1.09	0.17	Wollastonite	Yes	
Total:				100.00				



Spectrum 59								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	1.62	0.01619	40.92	2.58	C Vit	Yes	
O	K series	4.59	0.01545	32.41	1.91	SiO2	Yes	
F	K series	0.00	0.00000	0.00	0.64	CaF2	Yes	
Na	K series	2.67	0.01126	8.42	0.59	Albite	Yes	
Mg	K series	0.21	0.00138	0.82	0.19	MgO	Yes	
Al	K series	0.35	0.00255	1.21	0.19	Al2O3	Yes	
Si	K series	3.27	0.02588	10.14	0.58	SiO2	Yes	
P	K series	0.14	0.00076	0.31	0.22	GaP	Yes	
Cl	K series	1.30	0.01132	4.16	0.32	NaCl	Yes	
Ca	K series	0.55	0.00494	1.60	0.22	Wollastonite	Yes	
Total:				100.00				

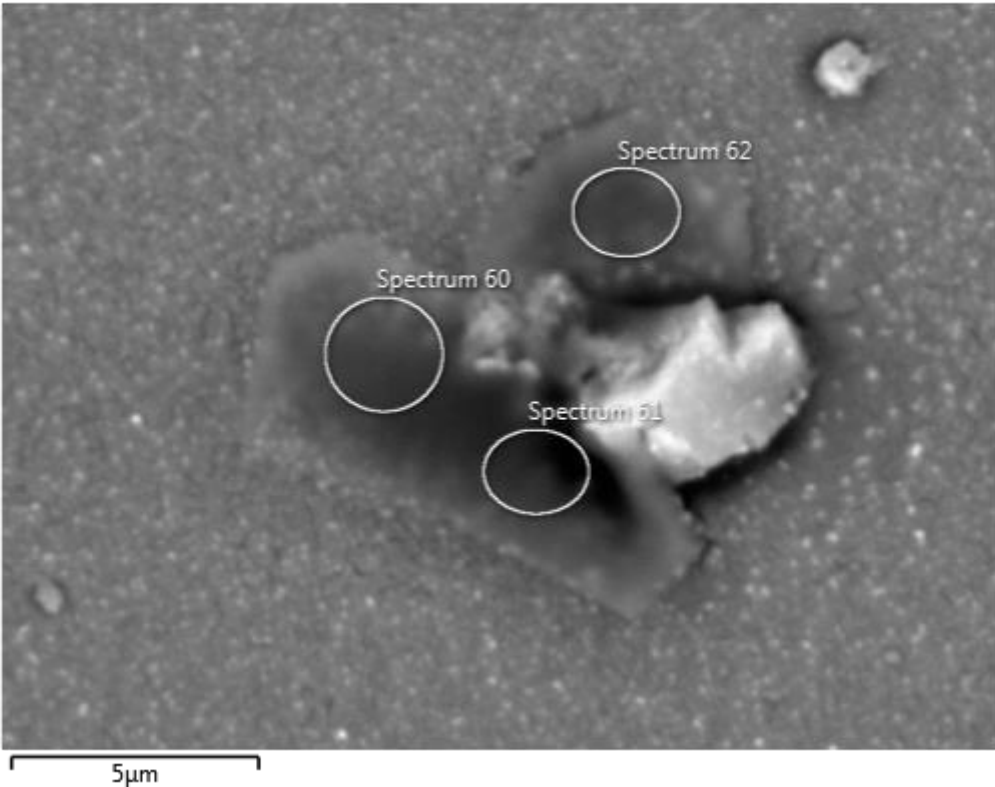
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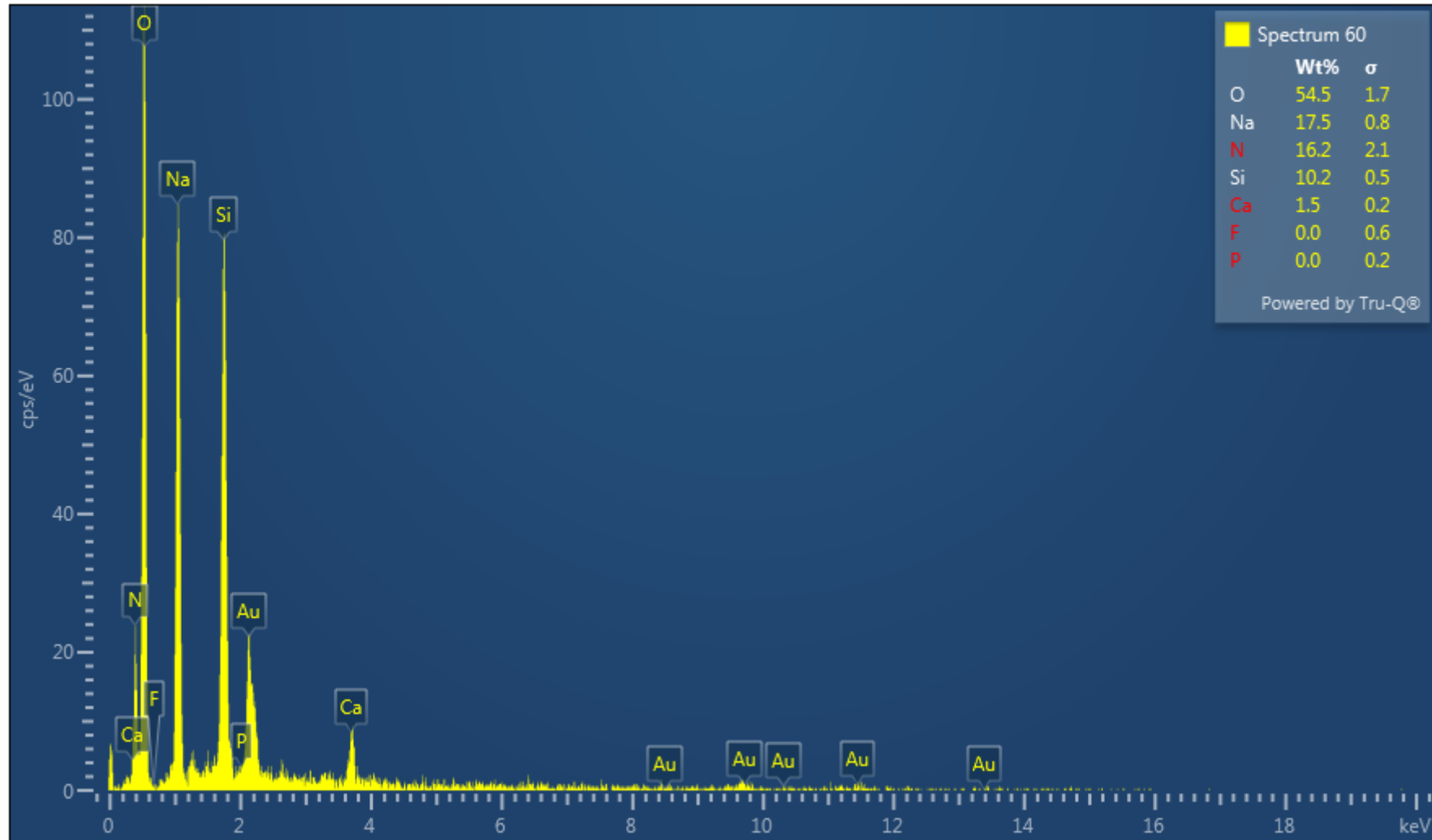
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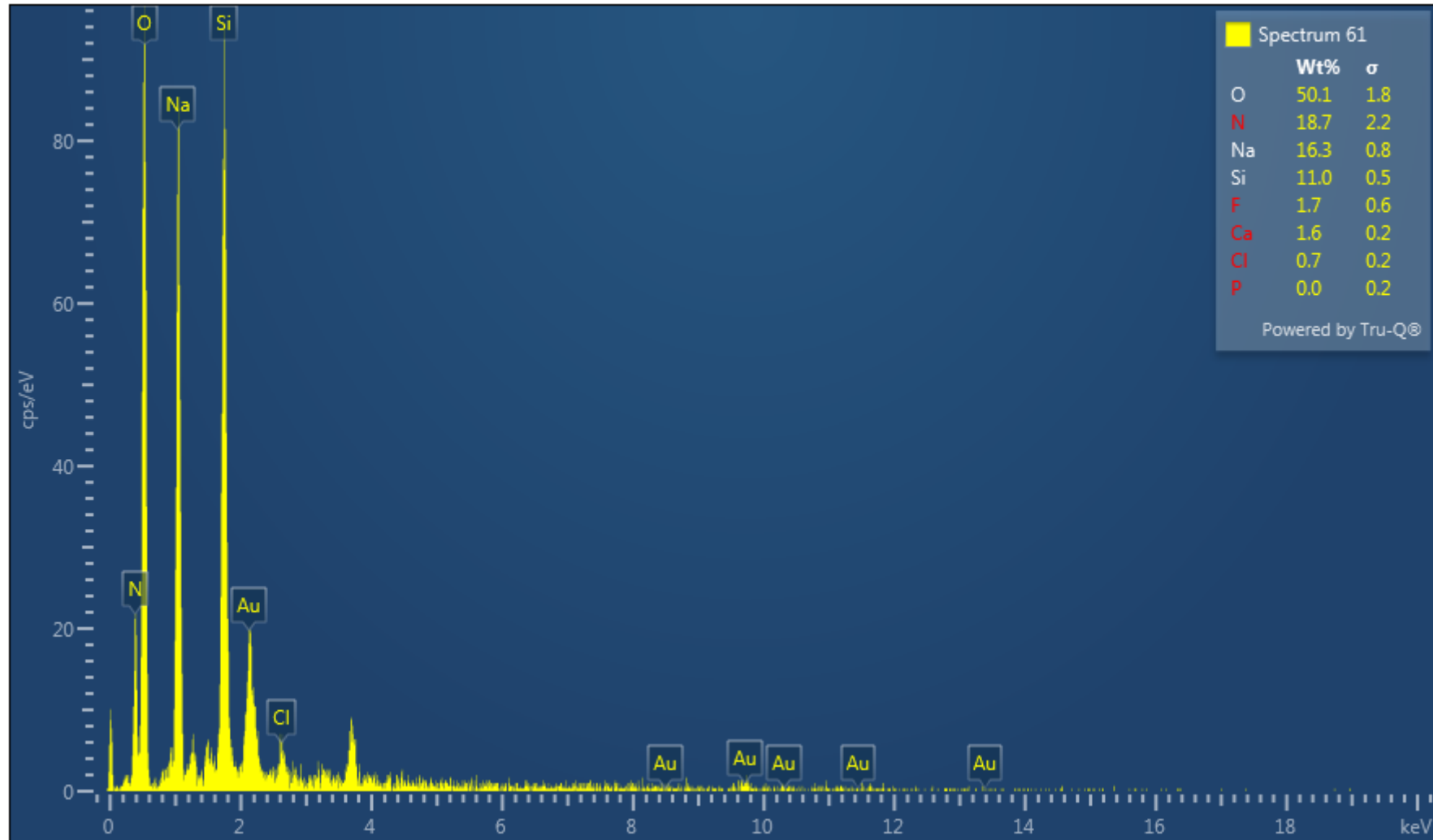
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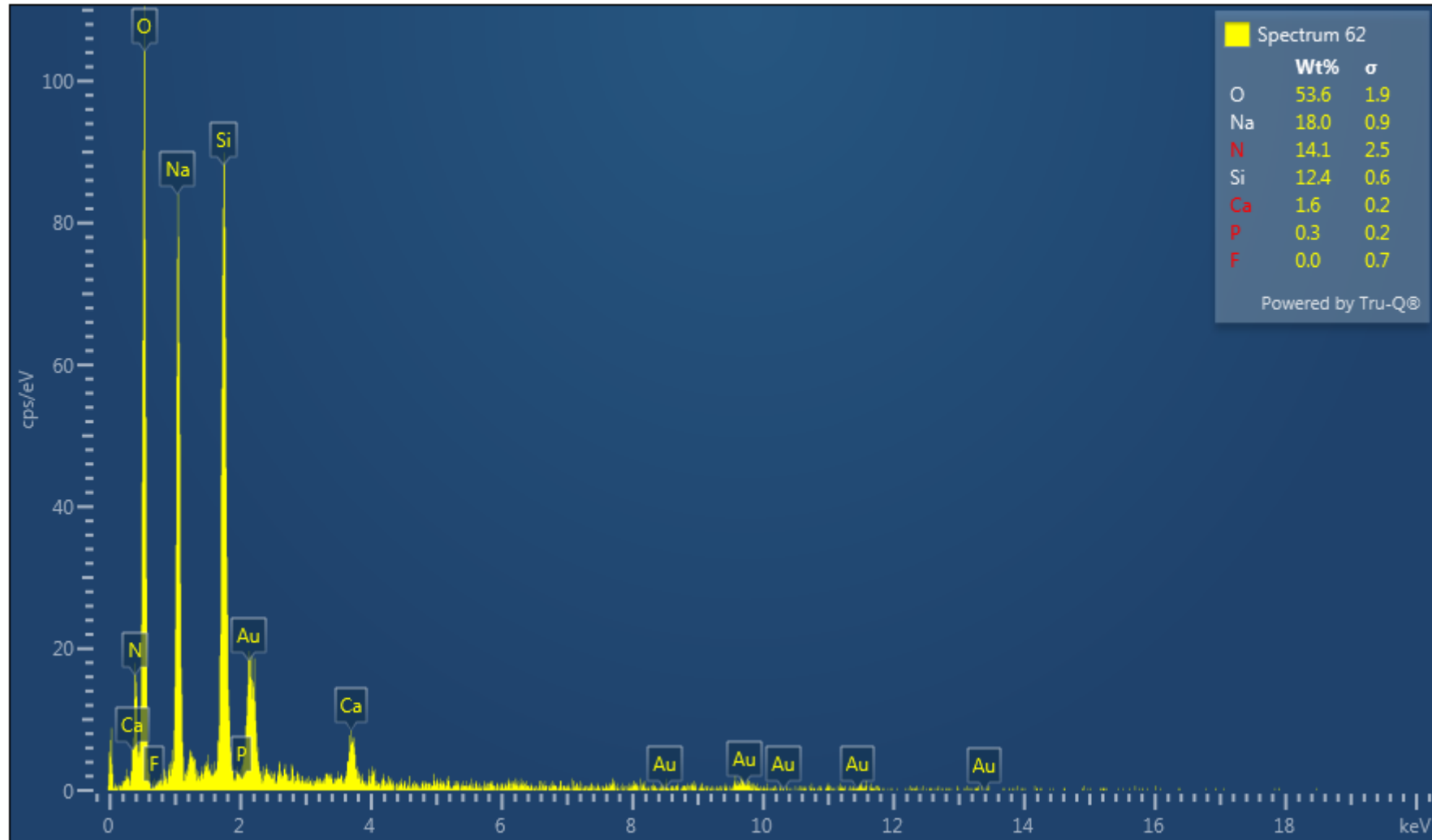




Spectrum 60								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
N	K series	6.68	0.01189	16.24	2.12	BN	Yes	
O	K series	10.71	0.03603	54.55	1.72	SiO2	Yes	
F	K series	0.00	0.00000	0.00	0.59	CaF2	Yes	
Na	K series	4.26	0.01800	17.52	0.81	Albite	Yes	
Si	K series	2.61	0.02070	10.17	0.50	SiO2	Yes	
P	K series	0.00	0.00000	0.00	0.23	GaP	Yes	
Ca	K series	0.48	0.00425	1.52	0.20	Wollastonite	Yes	
Total:				100.00				



Spectrum 61								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
N	K series	7.30	0.01300	18.66	2.16	BN	Yes	
O	K series	8.84	0.02974	50.08	1.79	SiO2	Yes	
F	K series	0.28	0.00056	1.72	0.61	CaF2	Yes	
Na	K series	3.98	0.01680	16.31	0.81	Albite	Yes	
Si	K series	2.85	0.02262	10.96	0.54	SiO2	Yes	
P	K series	0.00	0.00000	0.00	0.24	GaP	Yes	
Cl	K series	0.19	0.00169	0.72	0.16	NaCl	Yes	
Ca	K series	0.48	0.00433	1.56	0.21	Wollastonite	Yes	
Total:				100.00				



Spectrum 62								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
N	K series	4.75	0.00846	14.10	2.48	BN	Yes	
O	K series	9.68	0.03258	53.61	1.90	SiO2	Yes	
F	K series	0.00	0.00000	0.00	0.73	CaF2	Yes	
Na	K series	4.01	0.01691	17.99	0.89	Albite	Yes	
Si	K series	2.87	0.02275	12.42	0.62	SiO2	Yes	
P	K series	0.09	0.00049	0.27	0.25	GaP	Yes	
Ca	K series	0.45	0.00398	1.60	0.24	Wollastonite	Yes	
Total:				100.00				

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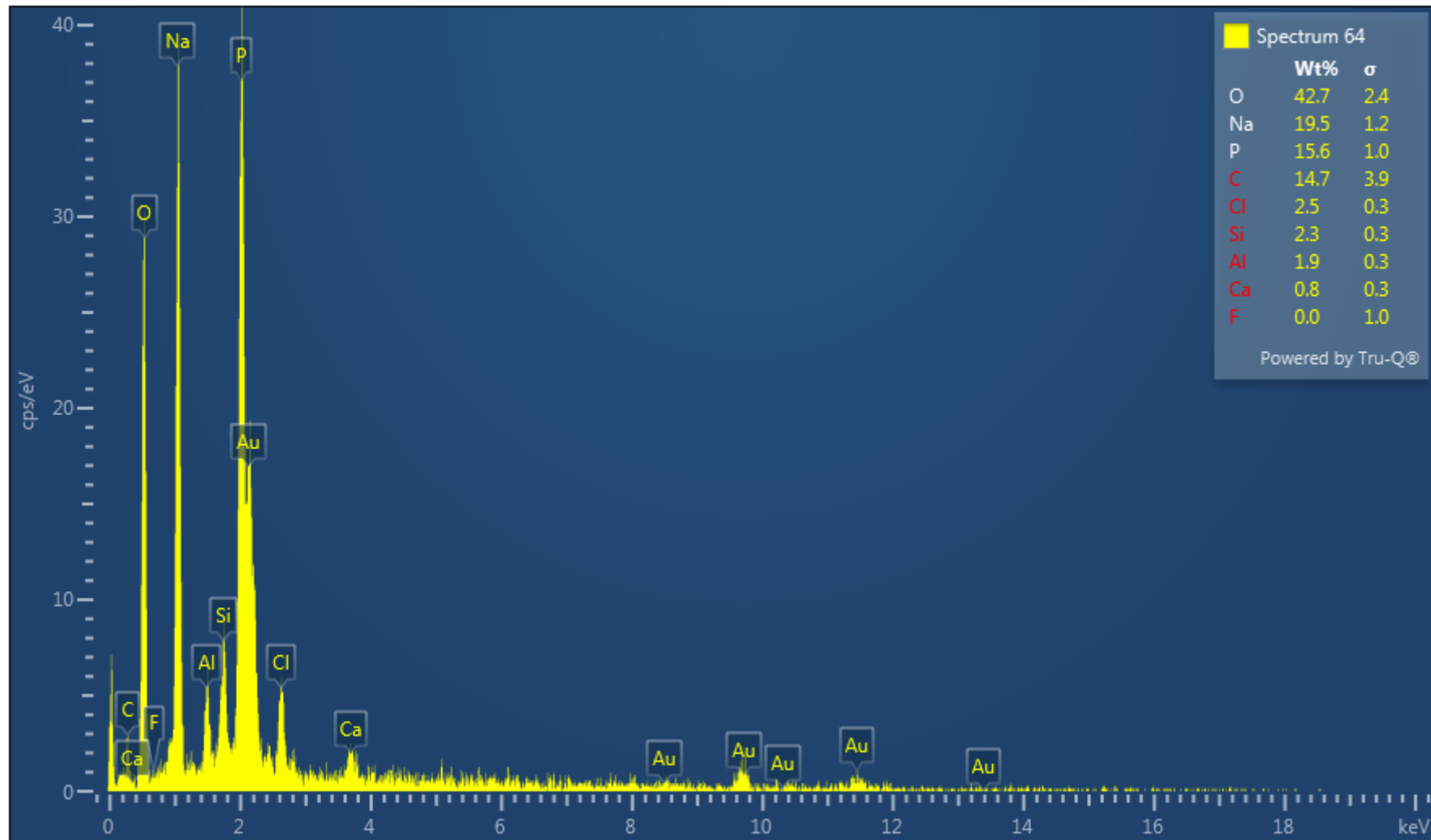
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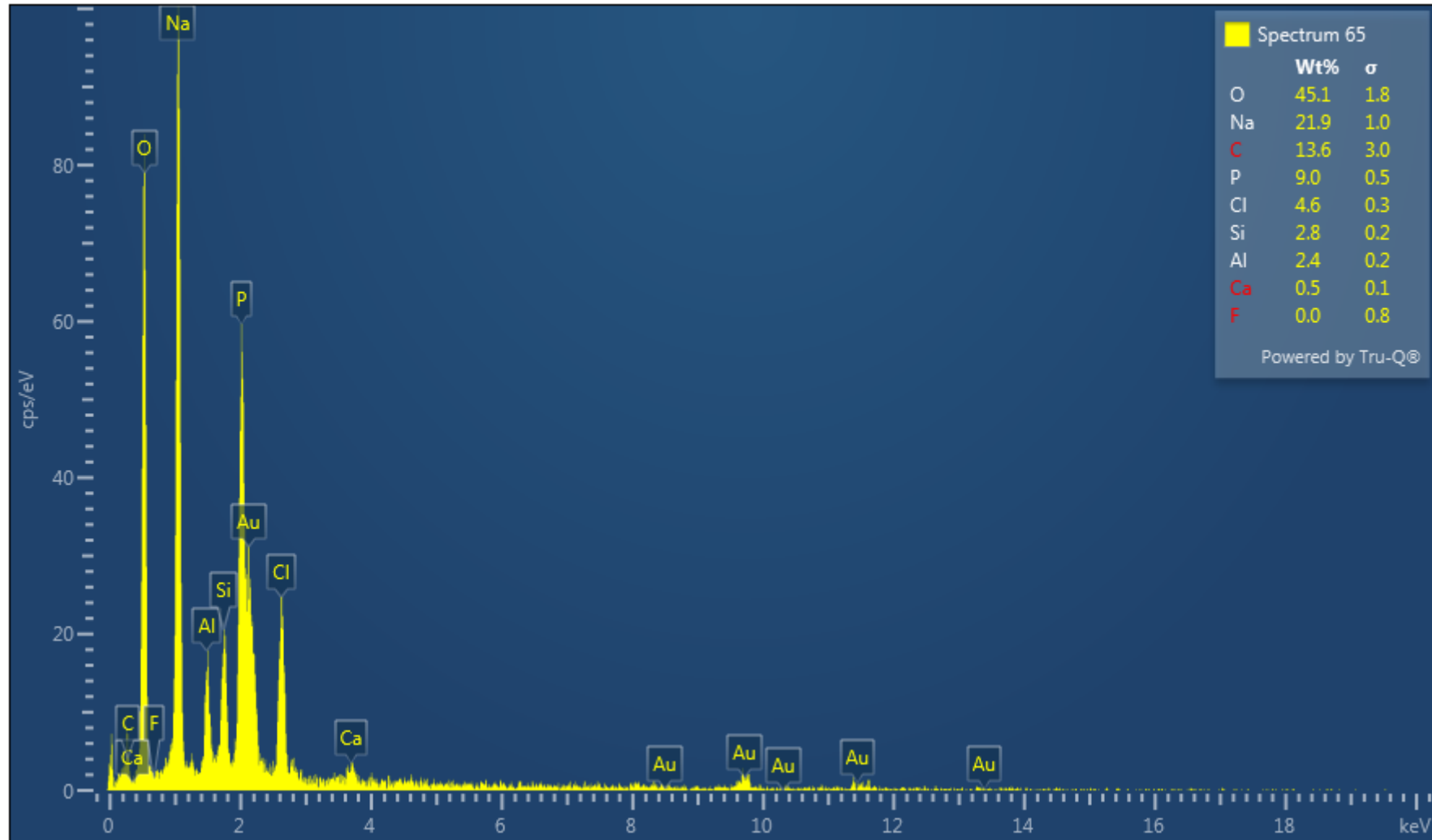
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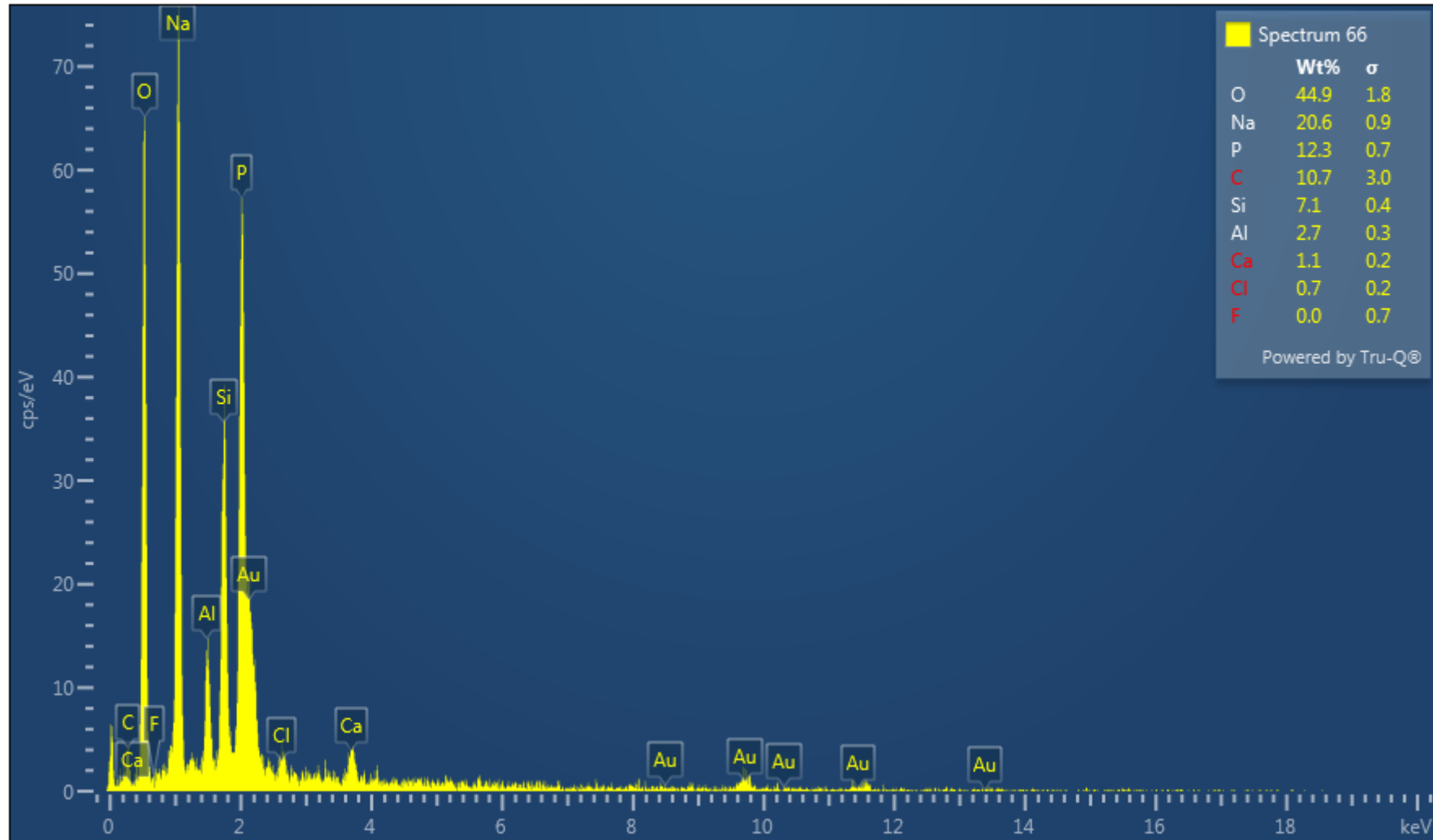




Spectrum 64								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	0.12	0.00121	14.69	3.95	C Vit	Yes	
O	K series	2.89	0.00974	42.68	2.35	SiO2	Yes	
F	K series	0.00	0.00000	0.00	0.99	CaF2	Yes	
Na	K series	1.91	0.00807	19.48	1.18	Albite	Yes	
Al	K series	0.15	0.00109	1.89	0.30	Al2O3	Yes	
Si	K series	0.21	0.00165	2.29	0.31	SiO2	Yes	
P	K series	2.19	0.01223	15.60	1.04	GaP	Yes	
Cl	K series	0.23	0.00197	2.55	0.32	NaCl	Yes	
Ca	K series	0.09	0.00077	0.82	0.25	Wollastonite	Yes	
Total:				100.00				



Spectrum 65								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	0.29	0.00286	13.59	3.00	C Vit	Yes	
O	K series	7.97	0.02681	45.07	1.82	SiO2	Yes	
F	K series	0.00	0.00000	0.00	0.77	CaF2	Yes	
Na	K series	5.15	0.02173	21.93	0.97	Albite	Yes	
Al	K series	0.45	0.00323	2.40	0.24	Al2O3	Yes	
Si	K series	0.59	0.00471	2.80	0.24	SiO2	Yes	
P	K series	2.98	0.01665	9.05	0.52	GaP	Yes	
Cl	K series	1.02	0.00893	4.64	0.31	NaCl	Yes	
Ca	K series	0.13	0.00118	0.52	0.15	Wollastonite	Yes	
Total:				100.00				



Spectrum 66								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	0.17	0.00170	10.67	3.05	C Vit	Yes	
O	K series	6.34	0.02133	44.86	1.81	SiO2	Yes	
F	K series	0.00	0.00000	0.00	0.74	CaF2	Yes	
Na	K series	3.81	0.01610	20.55	0.93	Albite	Yes	
Al	K series	0.40	0.00288	2.68	0.26	Al2O3	Yes	
Si	K series	1.19	0.00943	7.09	0.41	SiO2	Yes	
P	K series	3.04	0.01701	12.35	0.66	GaP	Yes	
Cl	K series	0.12	0.00107	0.75	0.17	NaCl	Yes	
Ca	K series	0.21	0.00186	1.05	0.19	Wollastonite	Yes	
Total:				100.00				

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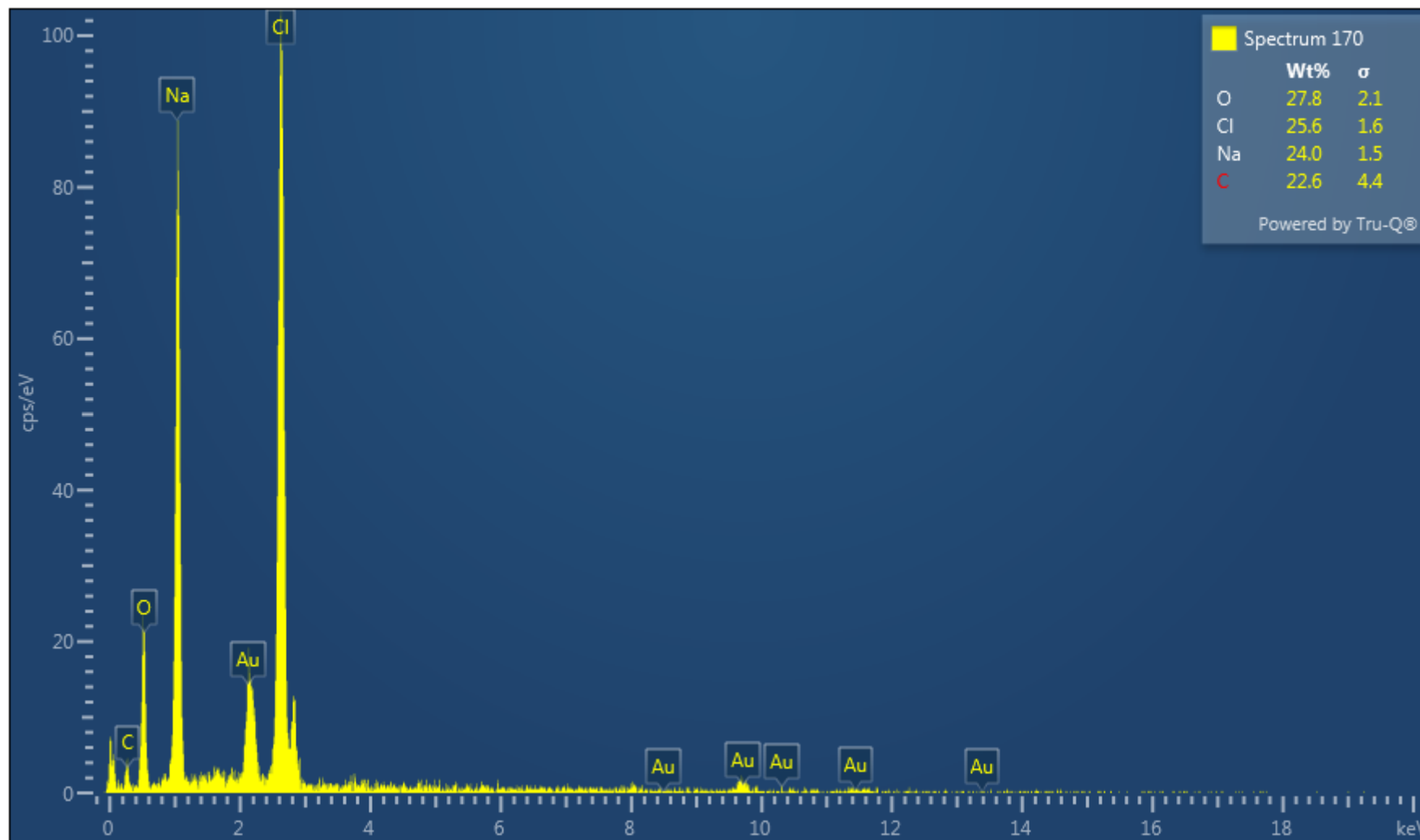
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Spectrum 170								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	0.23	0.00231	22.60	4.39	C Vit	Yes	
O	K series	2.27	0.00763	27.80	2.08	SiO2	Yes	
Na	K series	4.48	0.01890	23.98	1.55	Albite	Yes	
Cl	K series	4.59	0.04011	25.62	1.61	NaCl	Yes	
Total:				100.00				

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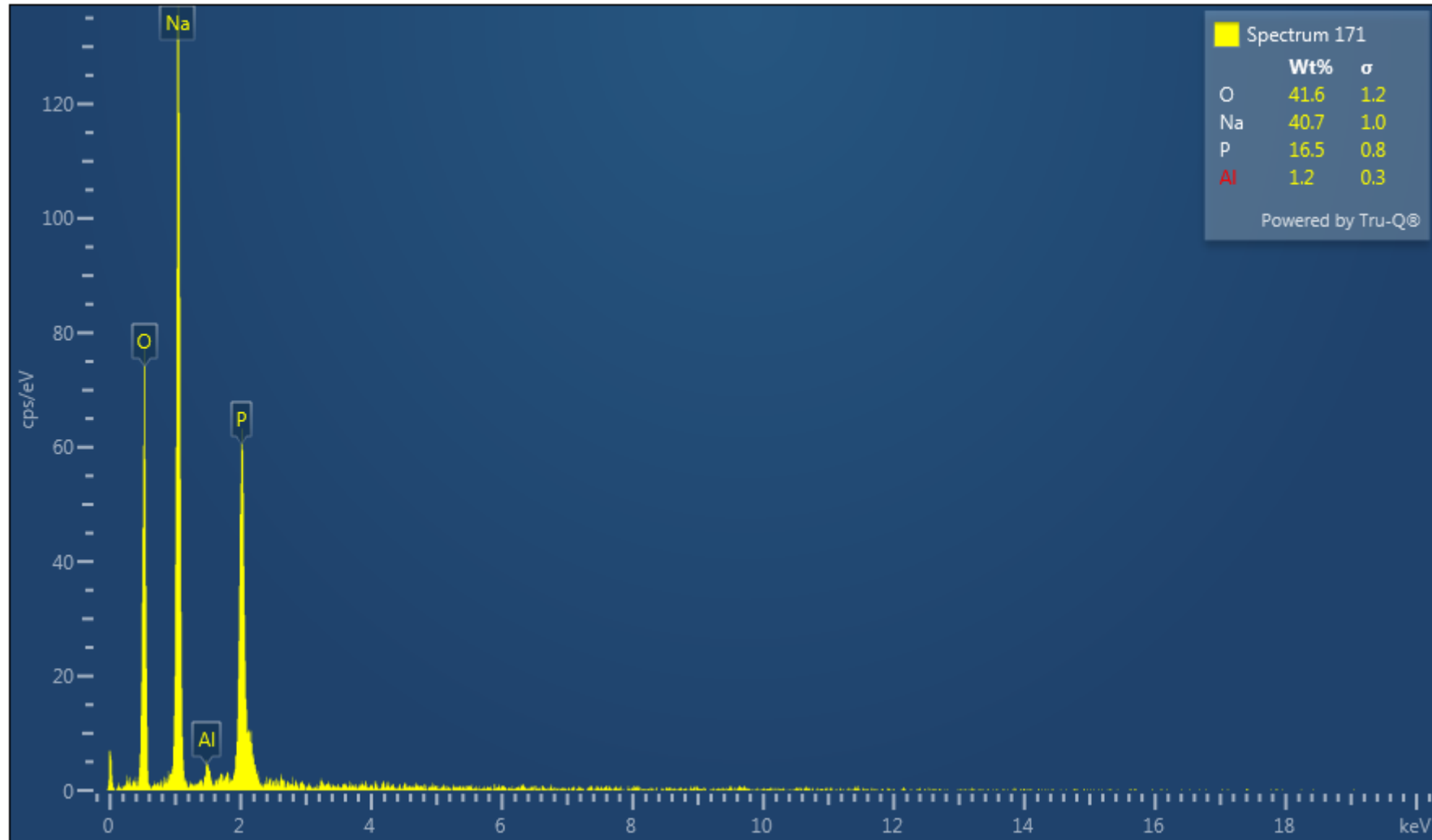
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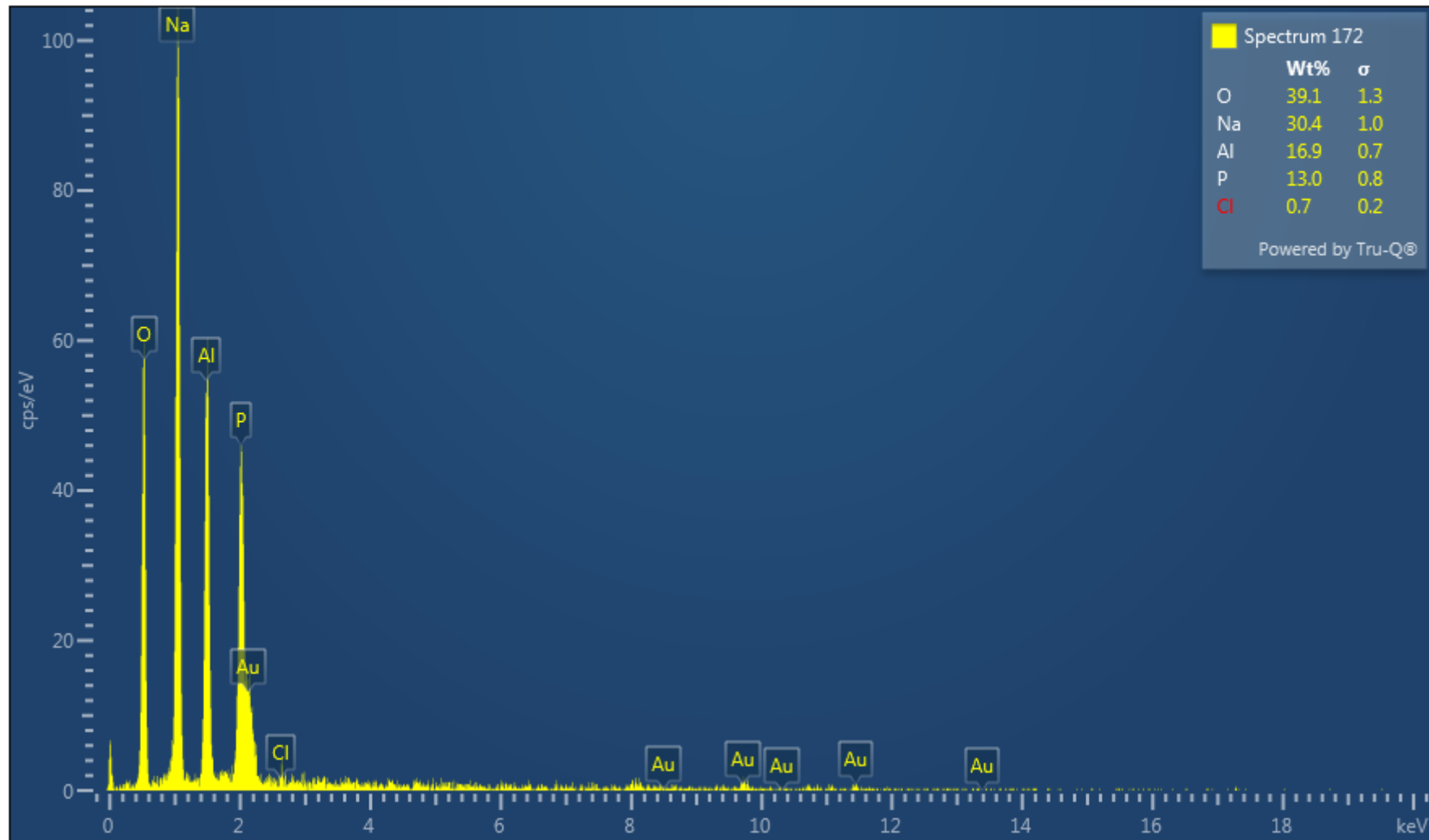
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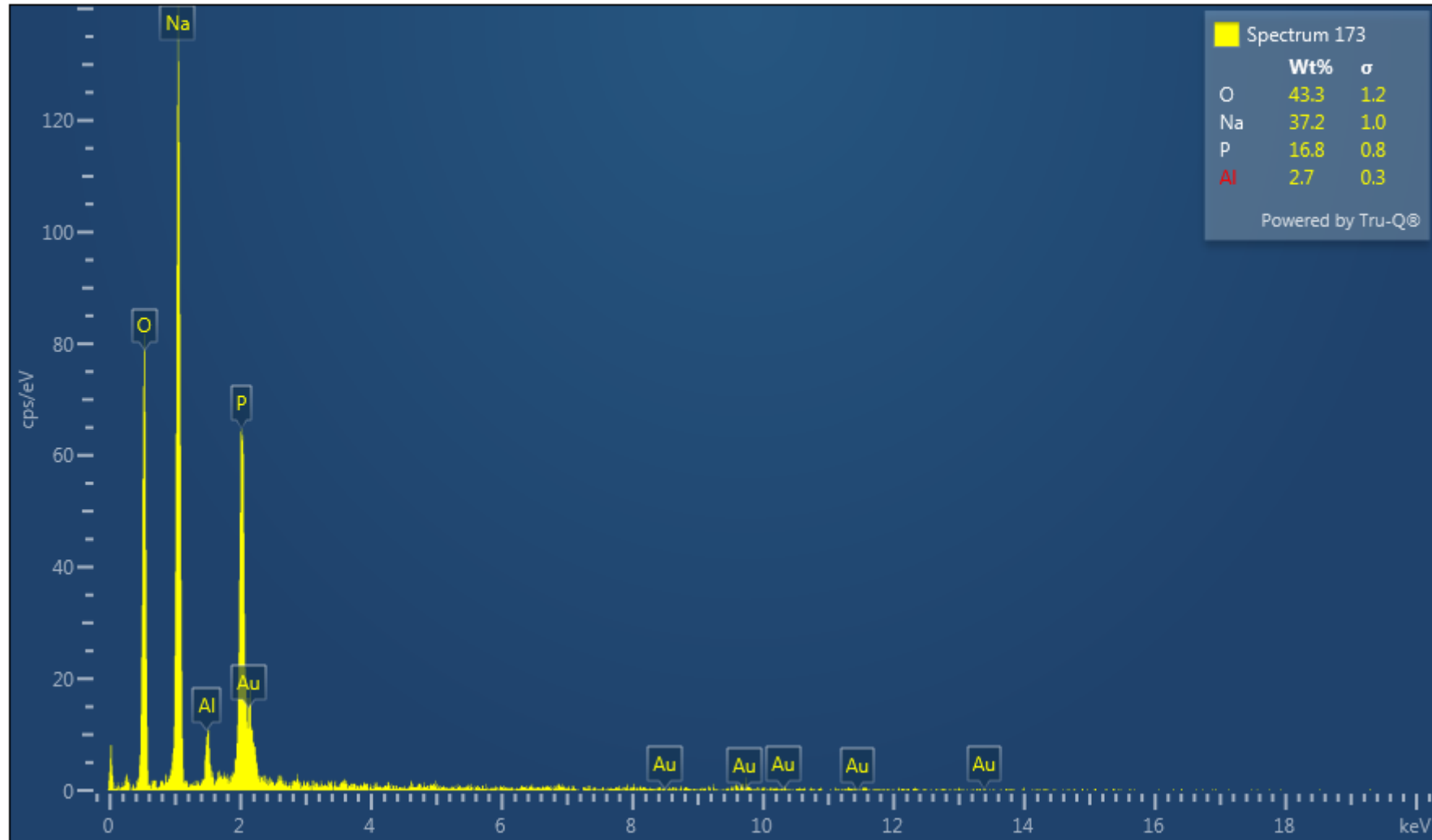




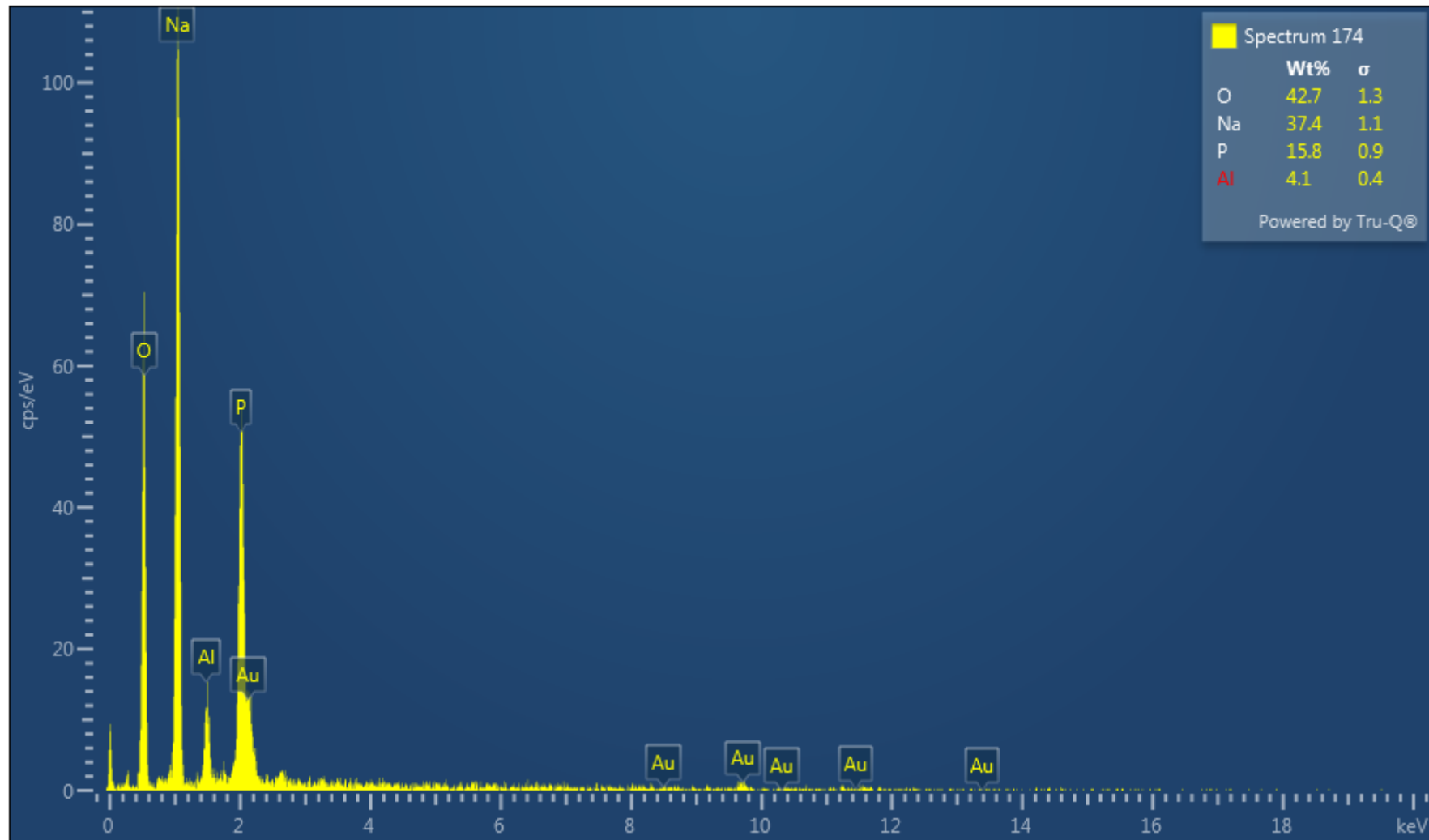
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Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
O	K series	5.99	0.02016	41.63	1.19	SiO2	Yes	
Na	K series	6.32	0.02666	40.66	1.03	Albite	Yes	
Al	K series	0.11	0.00080	1.20	0.27	Al2O3	Yes	
P	K series	3.01	0.01682	16.50	0.78	GaP	Yes	
Total:				100.00				



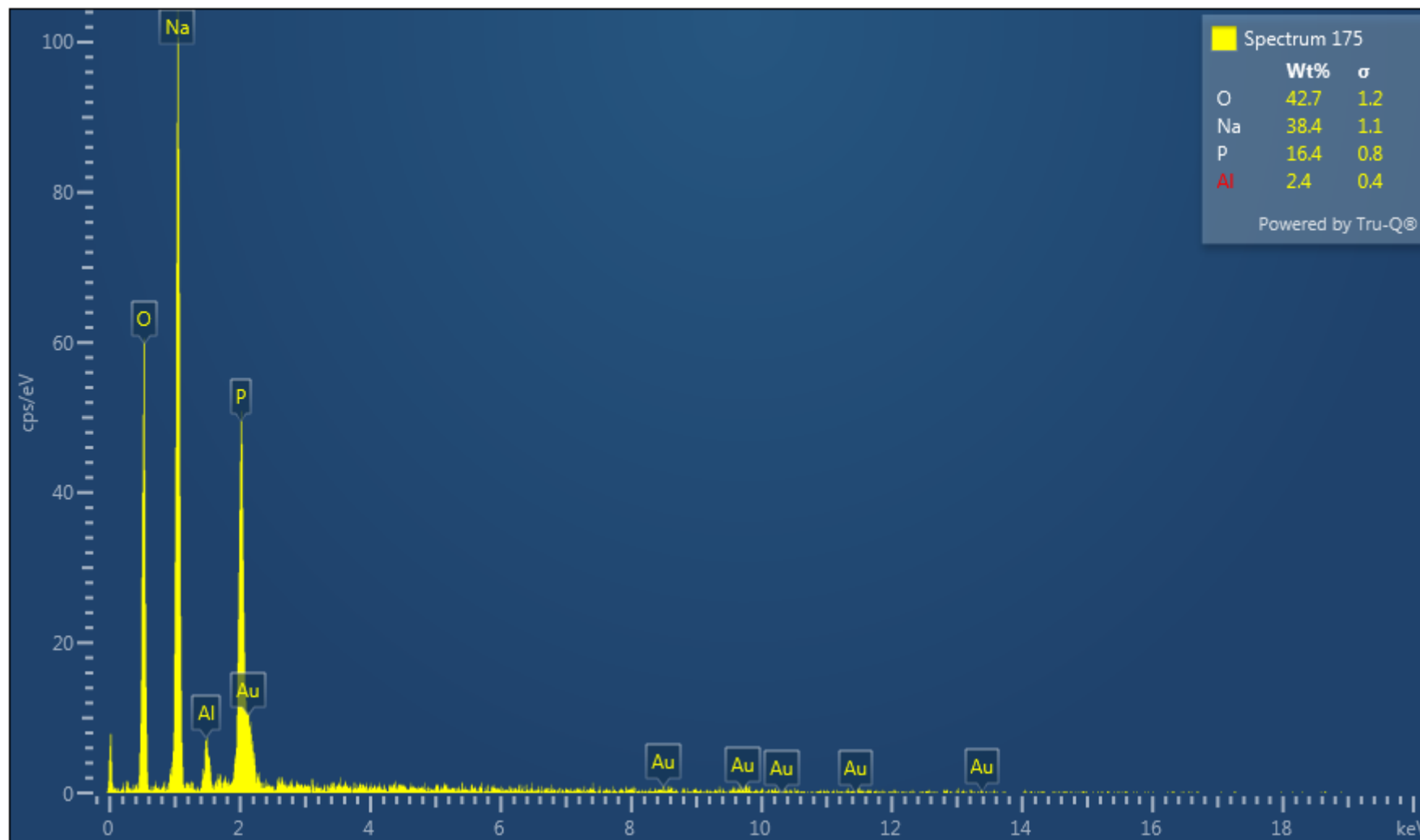
Spectrum 172								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
O	K series	4.88	0.01642	39.07	1.31	SiO2	Yes	
Na	K series	4.66	0.01968	30.38	0.97	Albite	Yes	
Al	K series	1.72	0.01233	16.87	0.71	Al2O3	Yes	
P	K series	2.13	0.01191	12.99	0.81	GaP	Yes	
Cl	K series	0.08	0.00068	0.69	0.22	NaCl	Yes	
Total:				100.00				



Spectrum 173								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
O	K series	6.73	0.02265	43.31	1.22	SiO2	Yes	
Na	K series	6.14	0.02591	37.19	1.03	Albite	Yes	
Al	K series	0.28	0.00200	2.69	0.34	Al2O3	Yes	
P	K series	3.35	0.01871	16.81	0.80	GaP	Yes	
Total:				100.00				



Spectrum 174								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
O	K series	5.29	0.01779	42.75	1.28	SiO2	Yes	
Na	K series	4.95	0.02087	37.38	1.08	Albite	Yes	
Al	K series	0.34	0.00242	4.08	0.45	Al2O3	Yes	
P	K series	2.47	0.01379	15.79	0.86	GaP	Yes	
Total:				100.00				



Spectrum 175								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
O	K series	4.82	0.01620	42.74	1.23	SiO2	Yes	
Na	K series	4.59	0.01937	38.42	1.06	Albite	Yes	
Al	K series	0.18	0.00127	2.40	0.36	Al2O3	Yes	
P	K series	2.35	0.01315	16.45	0.84	GaP	Yes	
Total:				100.00				



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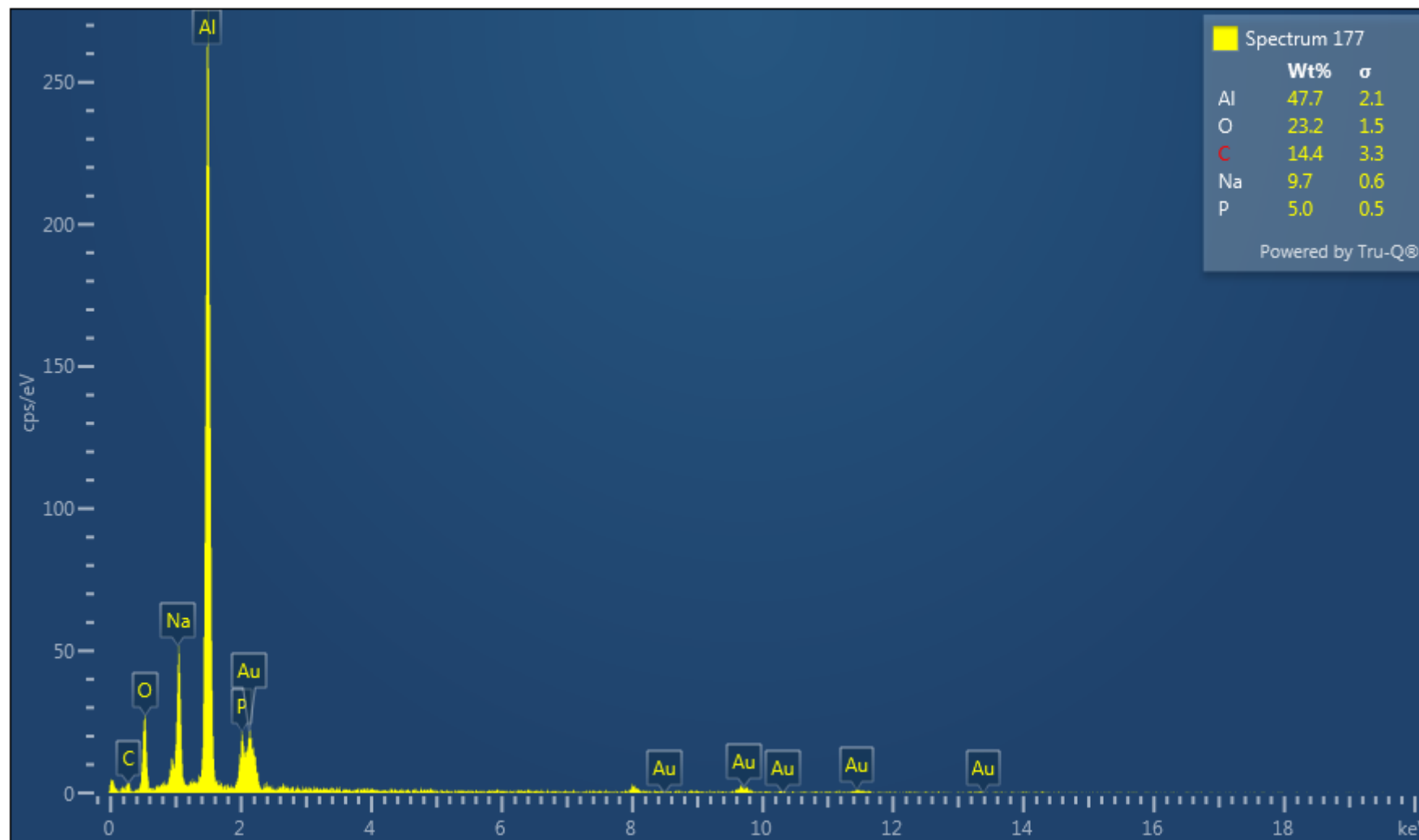
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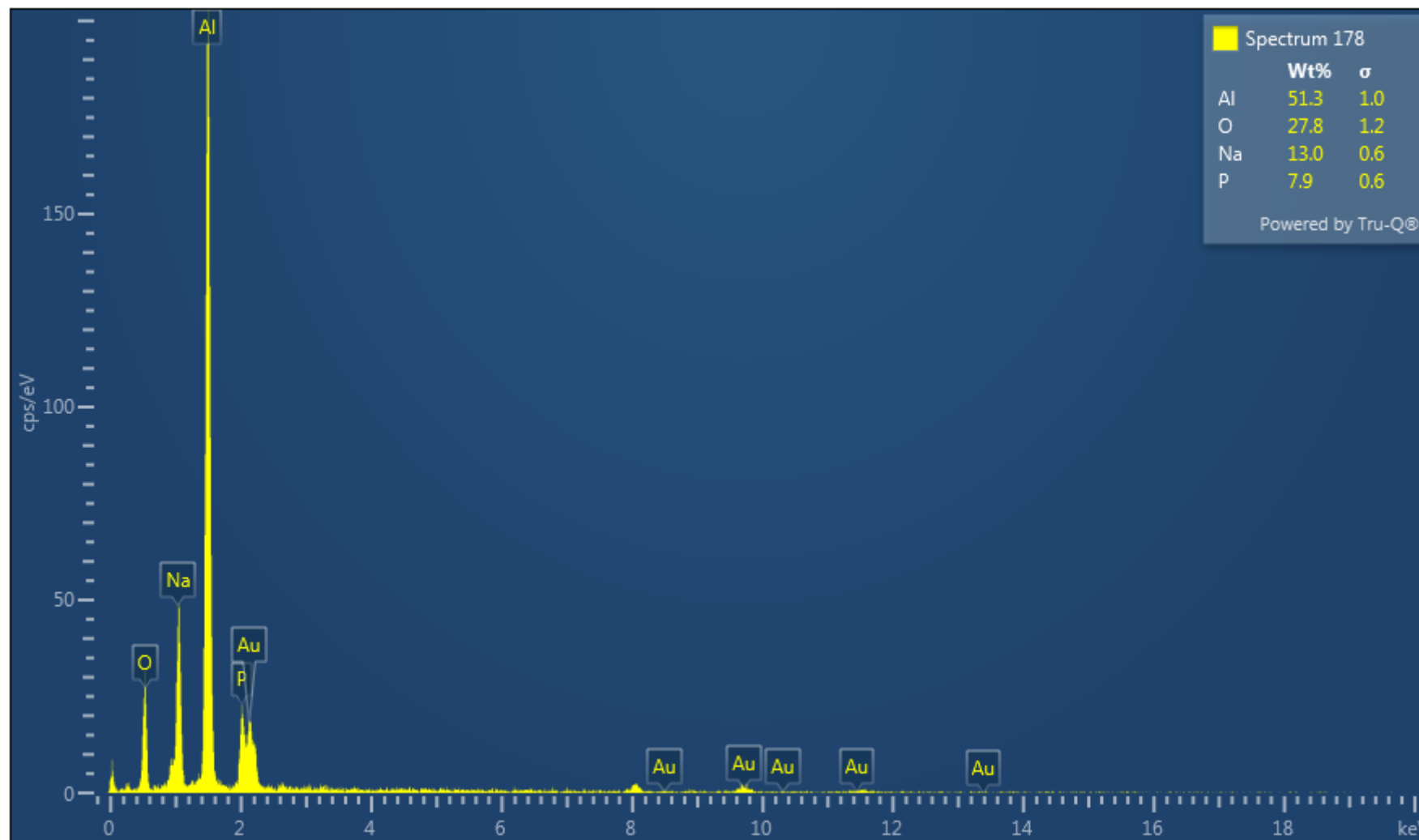


VACUNAS

10/13/2022

Spectrum 177

Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	0.16	0.00162	14.36	3.35	C Vit	Yes	
O	K series	2.30	0.00774	23.18	1.50	SiO2	Yes	
Na	K series	2.09	0.00880	9.73	0.59	Albite	Yes	
Al	K series	8.27	0.05943	47.70	2.06	Al2O3	Yes	
P	K series	0.91	0.00506	5.04	0.50	GaP	Yes	
Total:				100.00				



VACUNAS

10/13/2022



Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
O	K series	2.51	0.00845	27.80	1.19	SiO2	Yes	
Na	K series	2.06	0.00870	13.05	0.56	Albite	Yes	
Al	K series	6.25	0.04491	51.29	1.01	Al2O3	Yes	
P	K series	0.99	0.00555	7.86	0.58	GaP	Yes	
Total:				100.00				

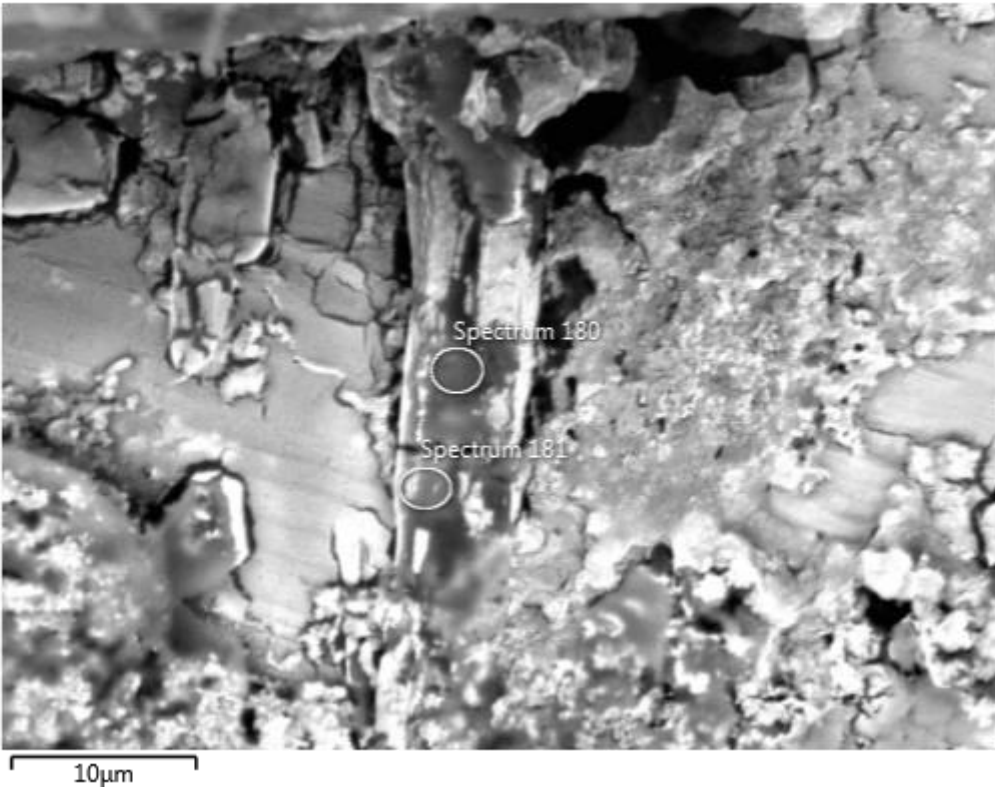
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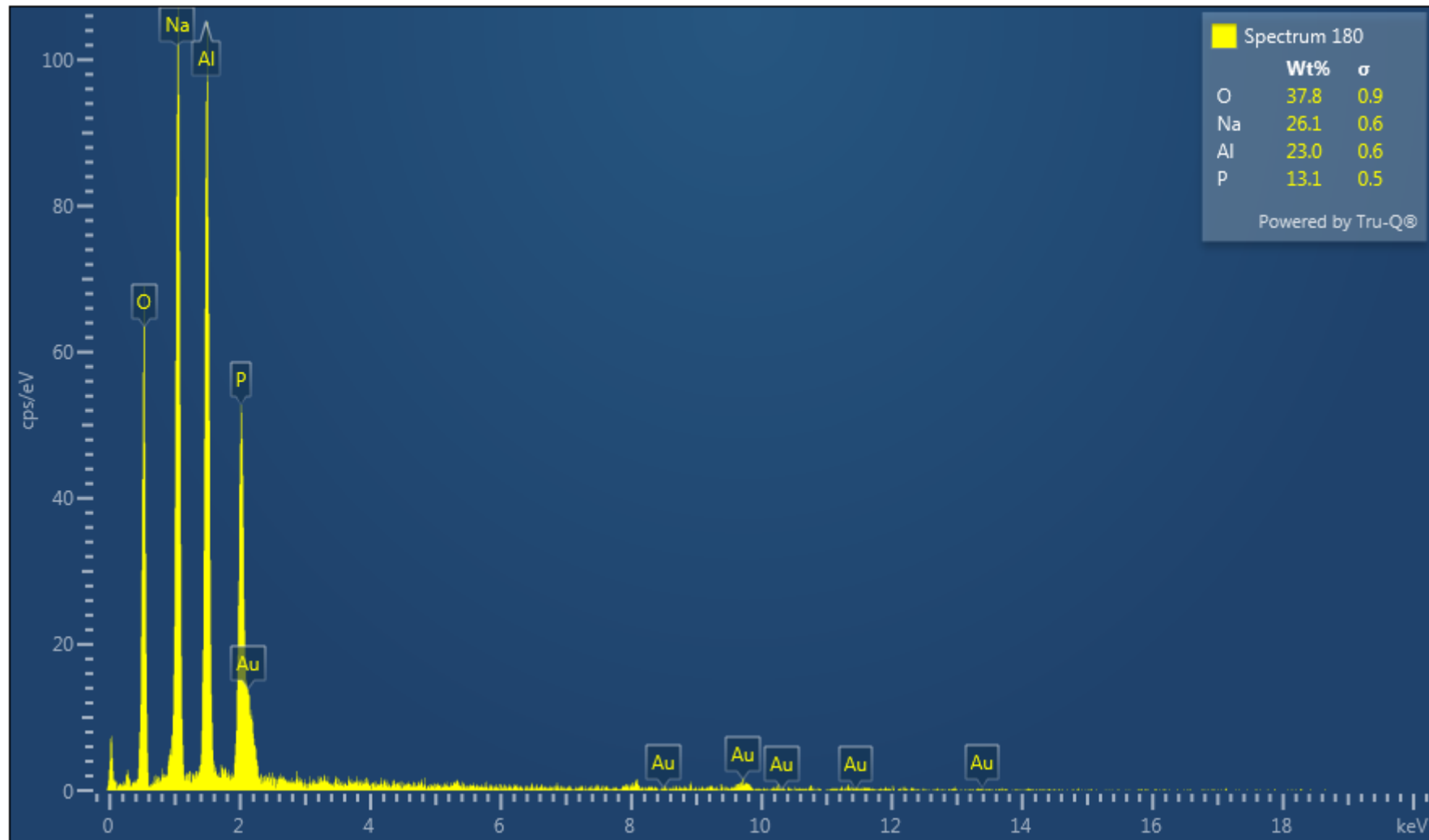
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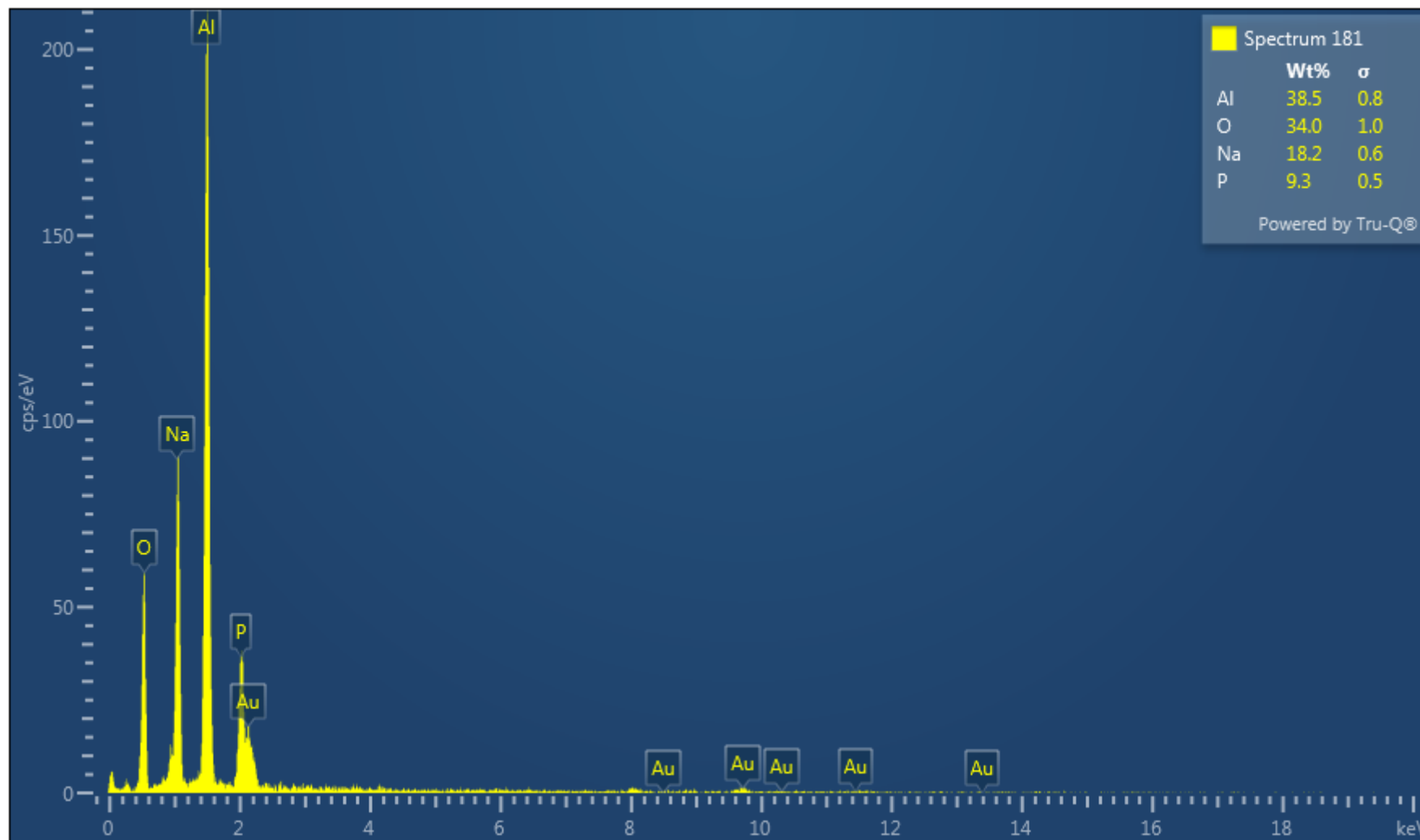
Specimen Notes

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Spectrum 180								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
O	K series	5.59	0.01882	37.85	0.93	SiO2	Yes	
Na	K series	4.98	0.02102	26.07	0.65	Albite	Yes	
Al	K series	3.05	0.02188	22.99	0.58	Al2O3	Yes	
P	K series	2.57	0.01439	13.09	0.53	GaP	Yes	
Total:				100.00				



Spectrum 181								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
O	K series	5.14	0.01728	34.00	1.00	SiO2	Yes	
Na	K series	4.04	0.01704	18.21	0.56	Albite	Yes	
Al	K series	6.39	0.04590	38.54	0.76	Al2O3	Yes	
P	K series	1.87	0.01045	9.25	0.49	GaP	Yes	
Total:				100.00				

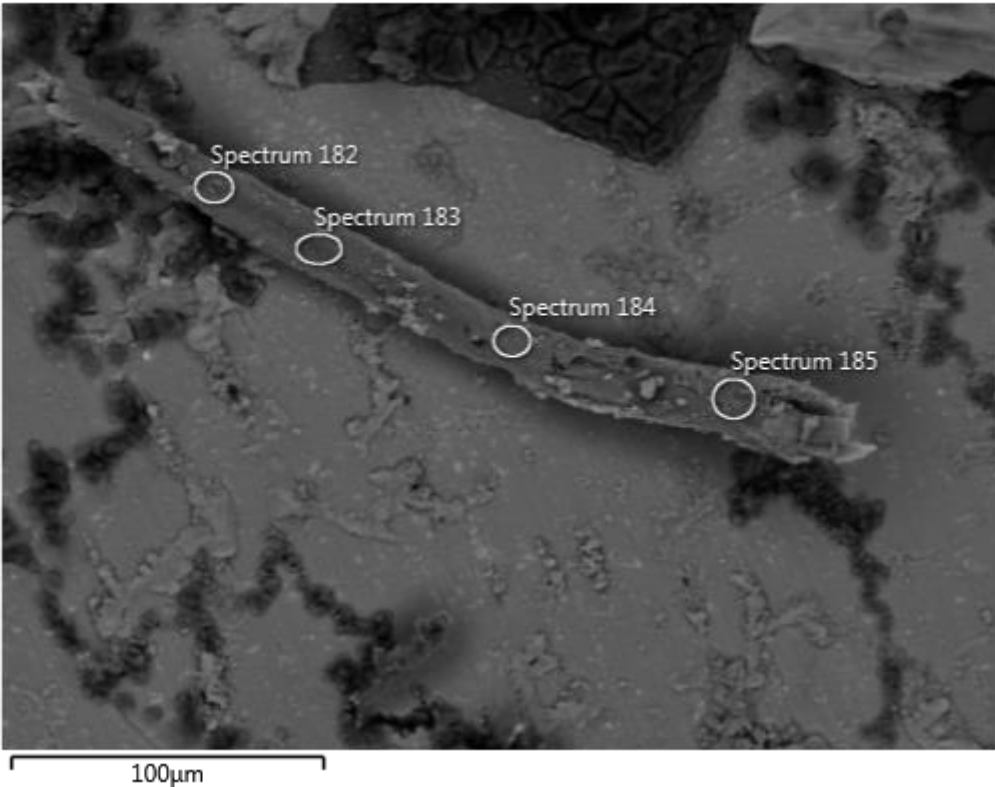
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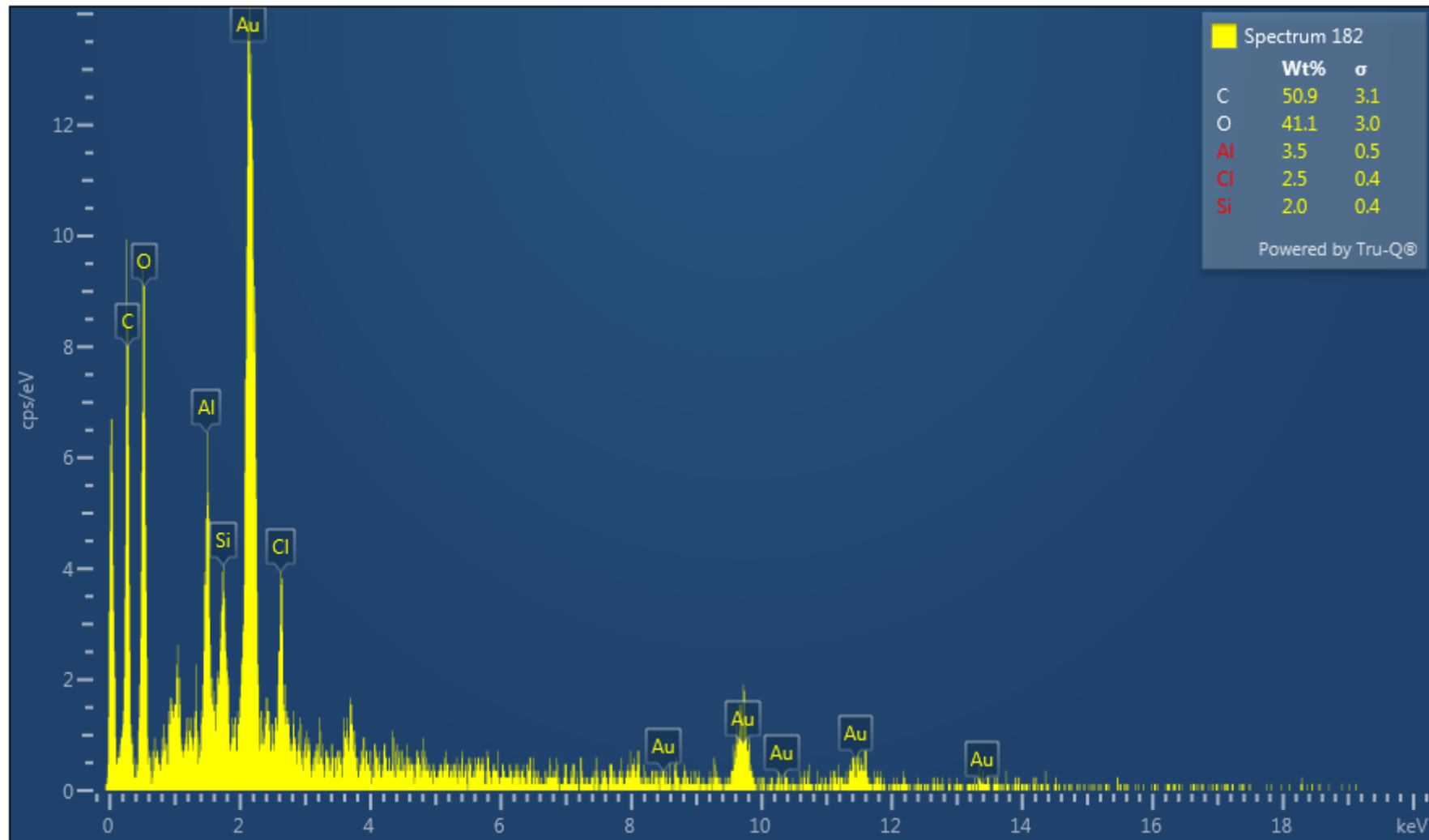
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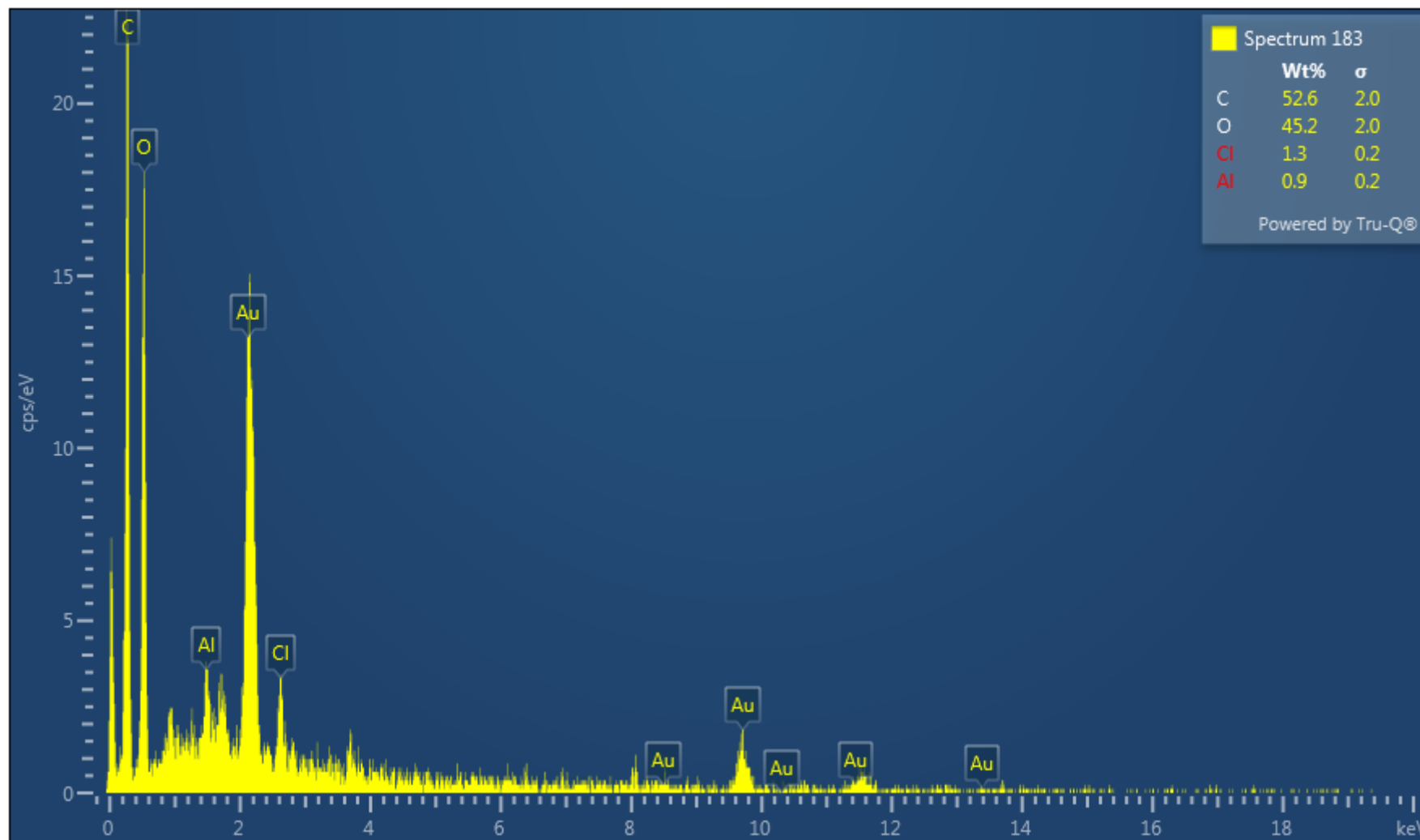
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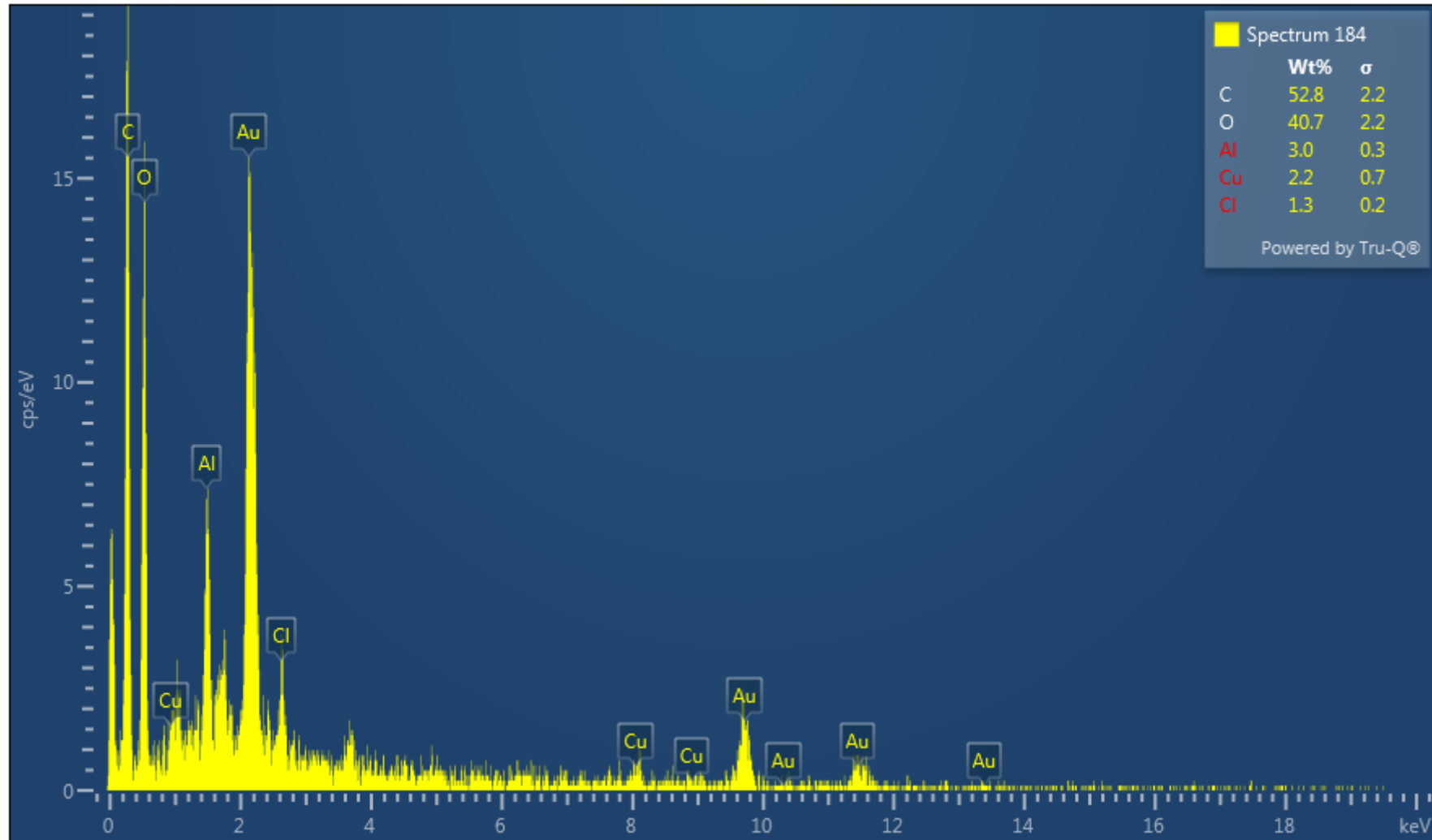




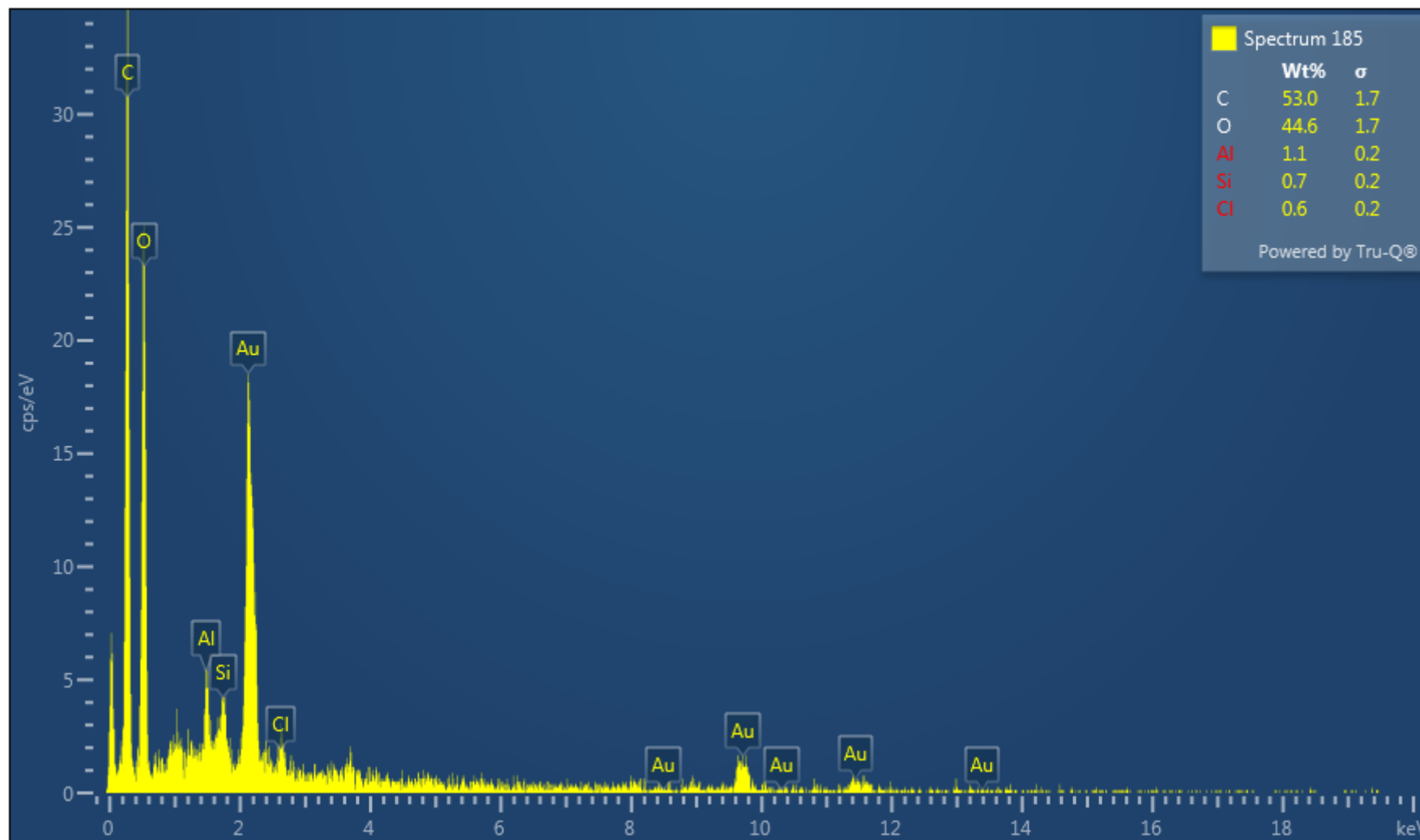
Spectrum 182								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	0.48	0.00478	50.89	3.08	C Vit	Yes	
O	K series	0.77	0.00258	41.05	2.97	SiO2	Yes	
Al	K series	0.14	0.00102	3.52	0.49	Al2O3	Yes	
Si	K series	0.09	0.00068	2.04	0.40	SiO2	Yes	
Cl	K series	0.11	0.00093	2.49	0.42	NaCl	Yes	
Total:				100.00				



Spectrum 183								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	1.25	0.01253	52.58	1.97	C Vit	Yes	
O	K series	1.55	0.00523	45.20	1.96	SiO2	Yes	
Al	K series	0.06	0.00045	0.89	0.24	Al2O3	Yes	
Cl	K series	0.10	0.00090	1.33	0.23	NaCl	Yes	
Total:				100.00				



Spectrum 184								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	1.01	0.01008	52.81	2.22	C Vit	Yes	
O	K series	1.28	0.00429	40.72	2.17	SiO2	Yes	
Al	K series	0.19	0.00138	2.97	0.34	Al2O3	Yes	
Cl	K series	0.09	0.00082	1.31	0.24	NaCl	Yes	
Cu	K series	0.13	0.00134	2.19	0.69	Cu	Yes	
Total:				100.00				



Spectrum 185								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	1.85	0.01846	52.95	1.74	C Vit	Yes	
O	K series	2.17	0.00731	44.63	1.73	SiO2	Yes	
Al	K series	0.11	0.00078	1.09	0.20	Al2O3	Yes	
Si	K series	0.08	0.00060	0.70	0.17	SiO2	Yes	
Cl	K series	0.07	0.00060	0.63	0.15	NaCl	Yes	
Total:				100.00				

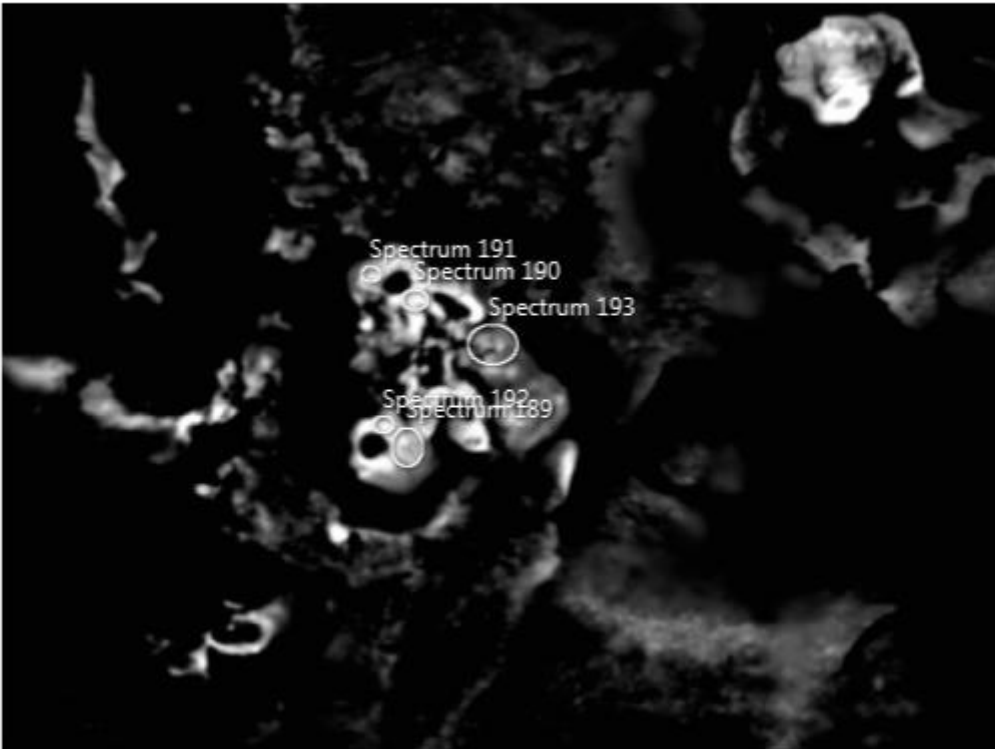
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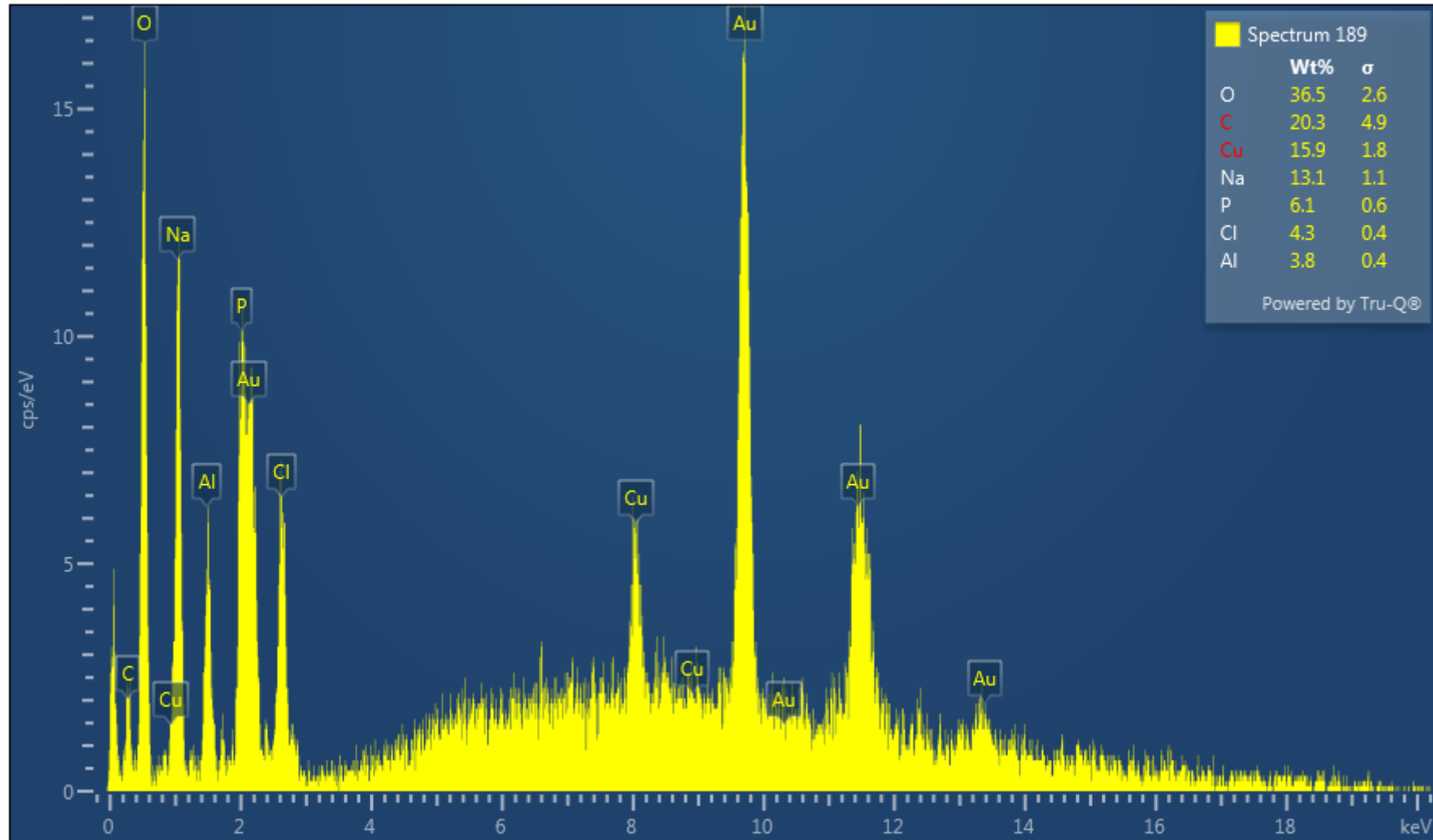
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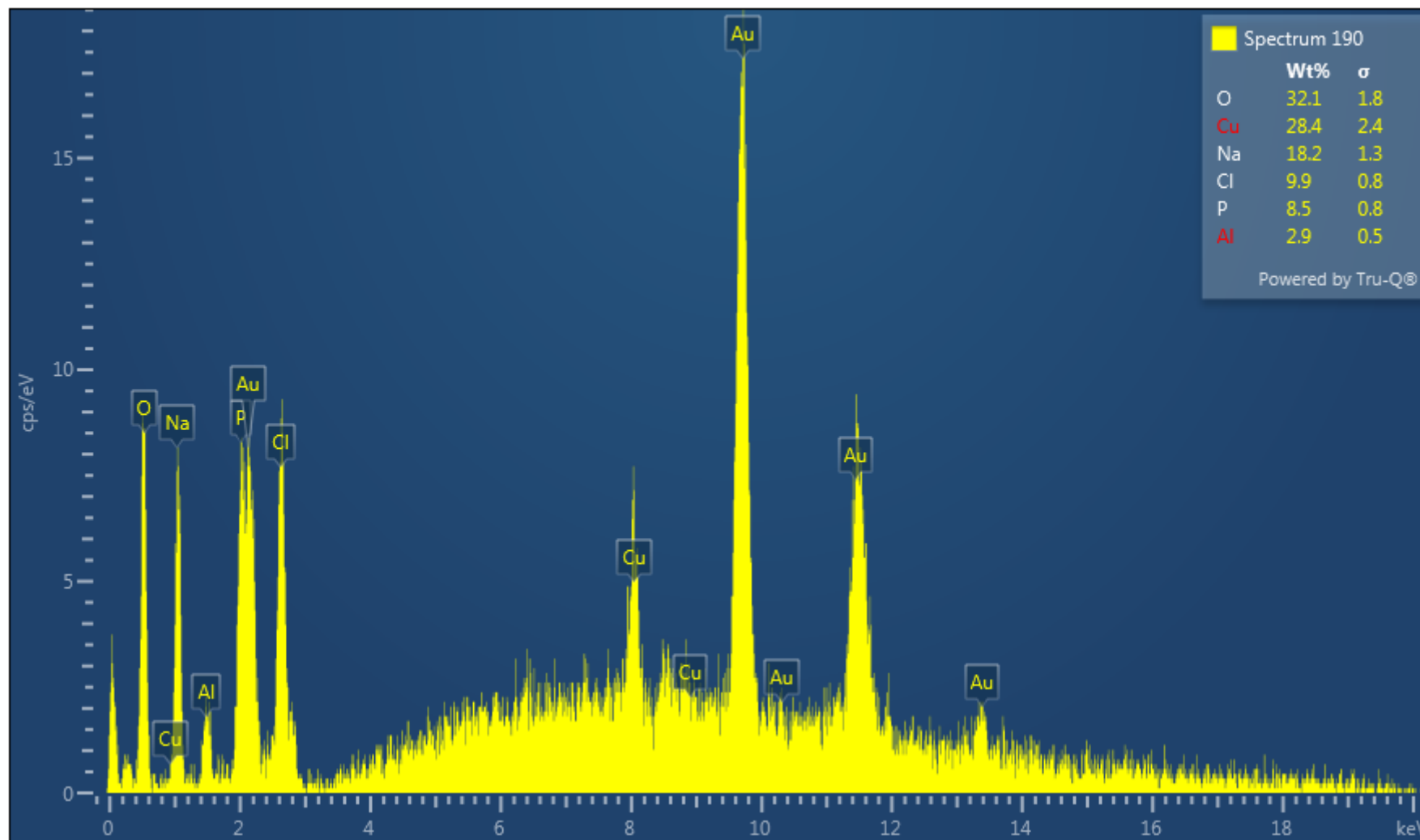
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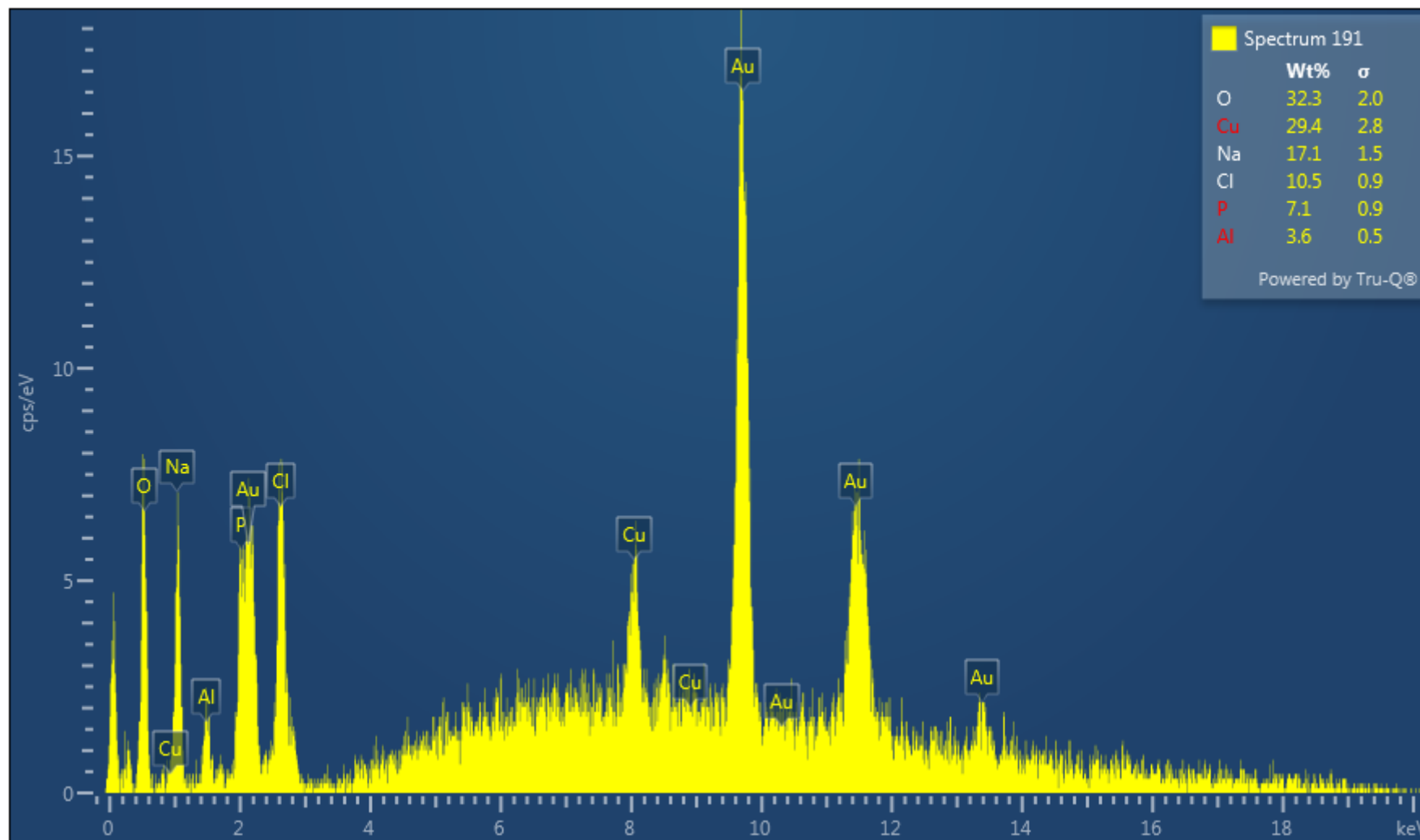




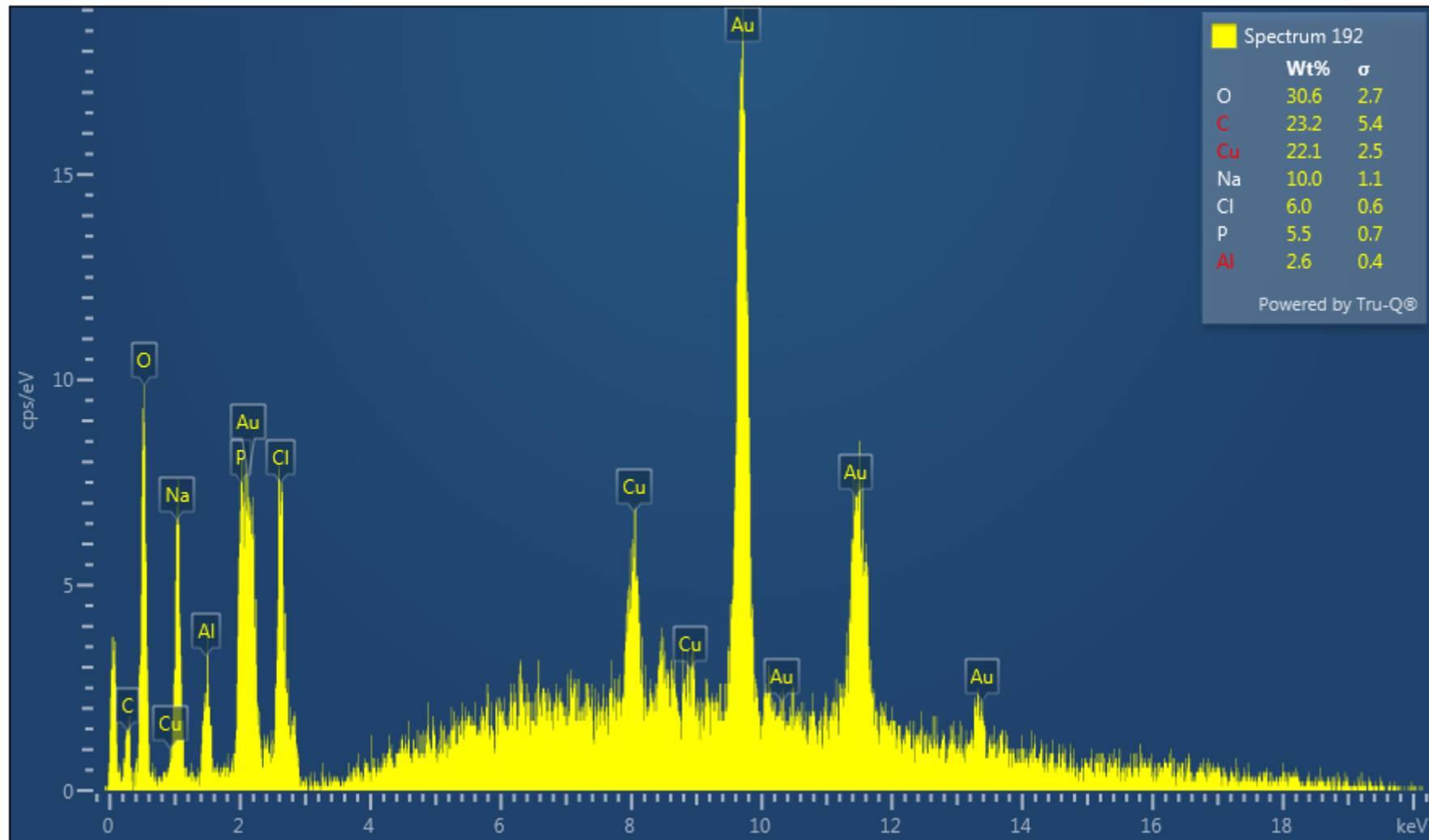
Spectrum 189								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	0.16	0.00156	20.31	4.90	C Vit	Yes	
O	K series	1.88	0.00633	36.46	2.61	SiO2	Yes	
Na	K series	0.74	0.00310	13.11	1.14	Albite	Yes	
Al	K series	0.21	0.00148	3.77	0.41	Al2O3	Yes	
P	K series	0.63	0.00353	6.14	0.62	GaP	Yes	
Cl	K series	0.31	0.00267	4.27	0.44	NaCl	Yes	
Cu	K series	1.14	0.01141	15.95	1.84	Cu	Yes	
Total:				100.00				



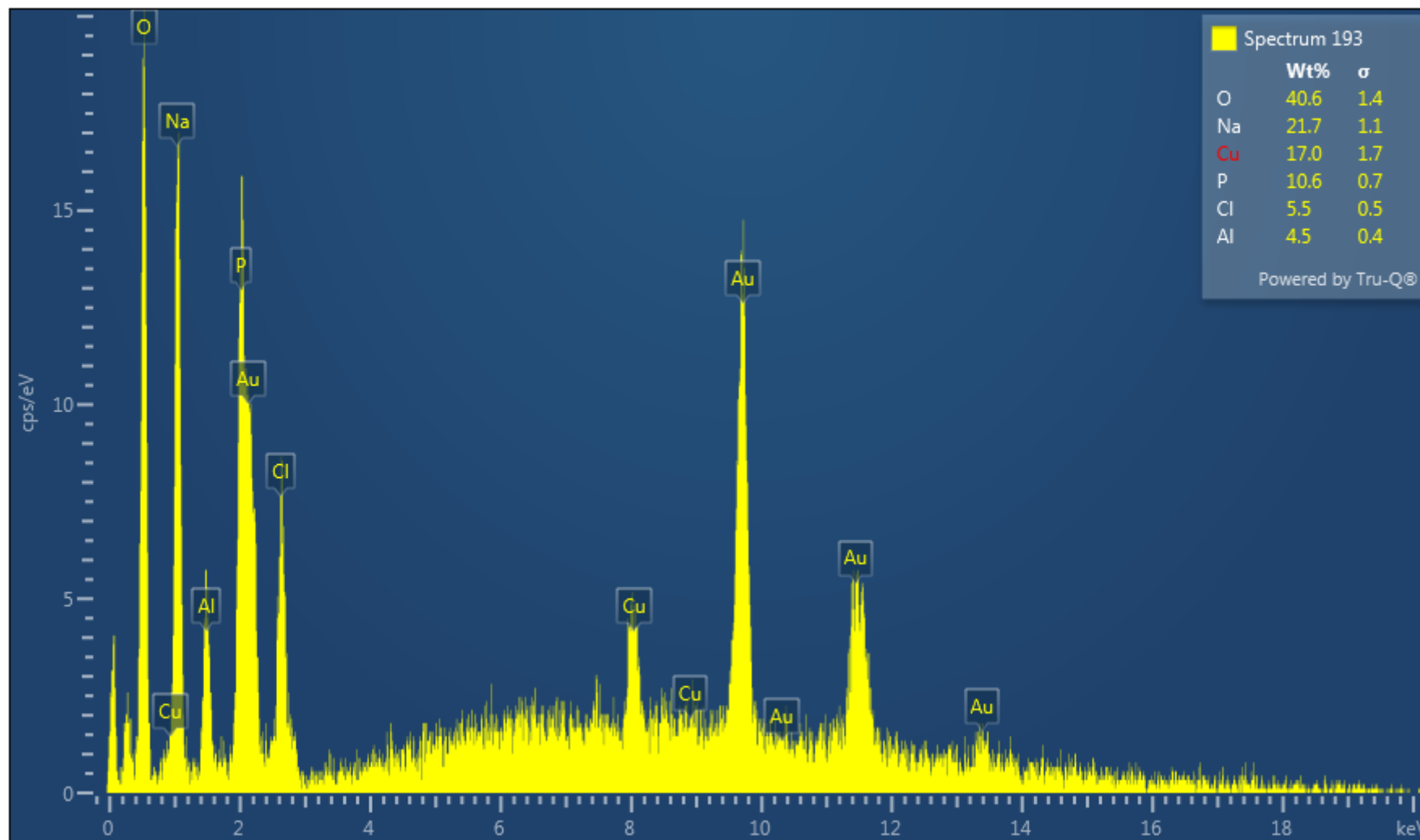
Spectrum 190								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
O	K series	1.14	0.00384	32.12	1.81	SiO2	Yes	
Na	K series	0.50	0.00213	18.17	1.32	Albite	Yes	
Al	K series	0.08	0.00056	2.91	0.47	Al2O3	Yes	
P	K series	0.46	0.00259	8.52	0.84	GaP	Yes	
Cl	K series	0.39	0.00339	9.90	0.76	NaCl	Yes	
Cu	K series	1.20	0.01204	28.38	2.39	Cu	Yes	
Total:				100.00				



Spectrum 191								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
O	K series	0.94	0.00317	32.27	2.04	SiO2	Yes	
Na	K series	0.38	0.00162	17.14	1.47	Albite	Yes	
Al	K series	0.08	0.00056	3.60	0.55	Al2O3	Yes	
P	K series	0.31	0.00176	7.14	0.89	GaP	Yes	
Cl	K series	0.34	0.00294	10.47	0.89	NaCl	Yes	
Cu	K series	1.02	0.01018	29.37	2.79	Cu	Yes	
Total:				100.00				



Spectrum 192								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	0.13	0.00134	23.23	5.44	C Vit	Yes	
O	K series	1.12	0.00377	30.59	2.69	SiO2	Yes	
Na	K series	0.40	0.00171	10.04	1.13	Albite	Yes	
Al	K series	0.11	0.00078	2.60	0.39	Al2O3	Yes	
P	K series	0.44	0.00245	5.47	0.67	GaP	Yes	
Cl	K series	0.34	0.00293	5.95	0.64	NaCl	Yes	
Cu	K series	1.25	0.01249	22.11	2.49	Cu	Yes	
Total:				100.00				



Spectrum 193								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
O	K series	2.42	0.00816	40.65	1.45	SiO2	Yes	
Na	K series	1.04	0.00439	21.73	1.11	Albite	Yes	
Al	K series	0.19	0.00137	4.50	0.44	Al2O3	Yes	
P	K series	0.87	0.00489	10.60	0.71	GaP	Yes	
Cl	K series	0.32	0.00278	5.53	0.47	NaCl	Yes	
Cu	K series	1.04	0.01045	16.99	1.65	Cu	Yes	
Total:				100.00				

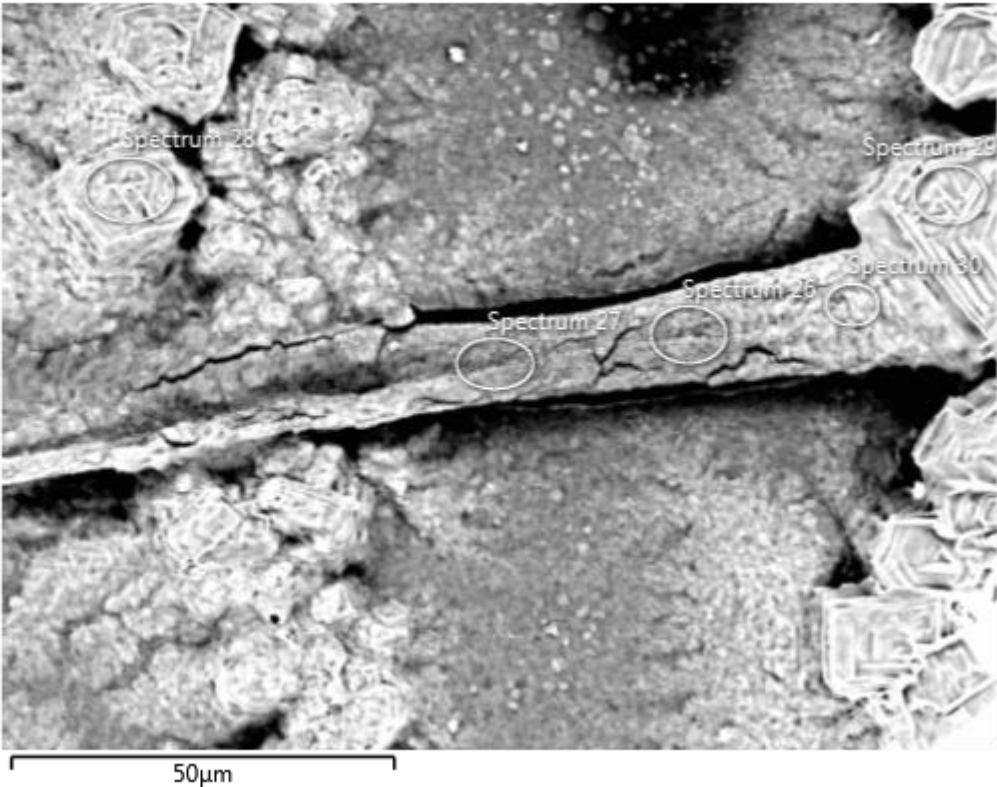
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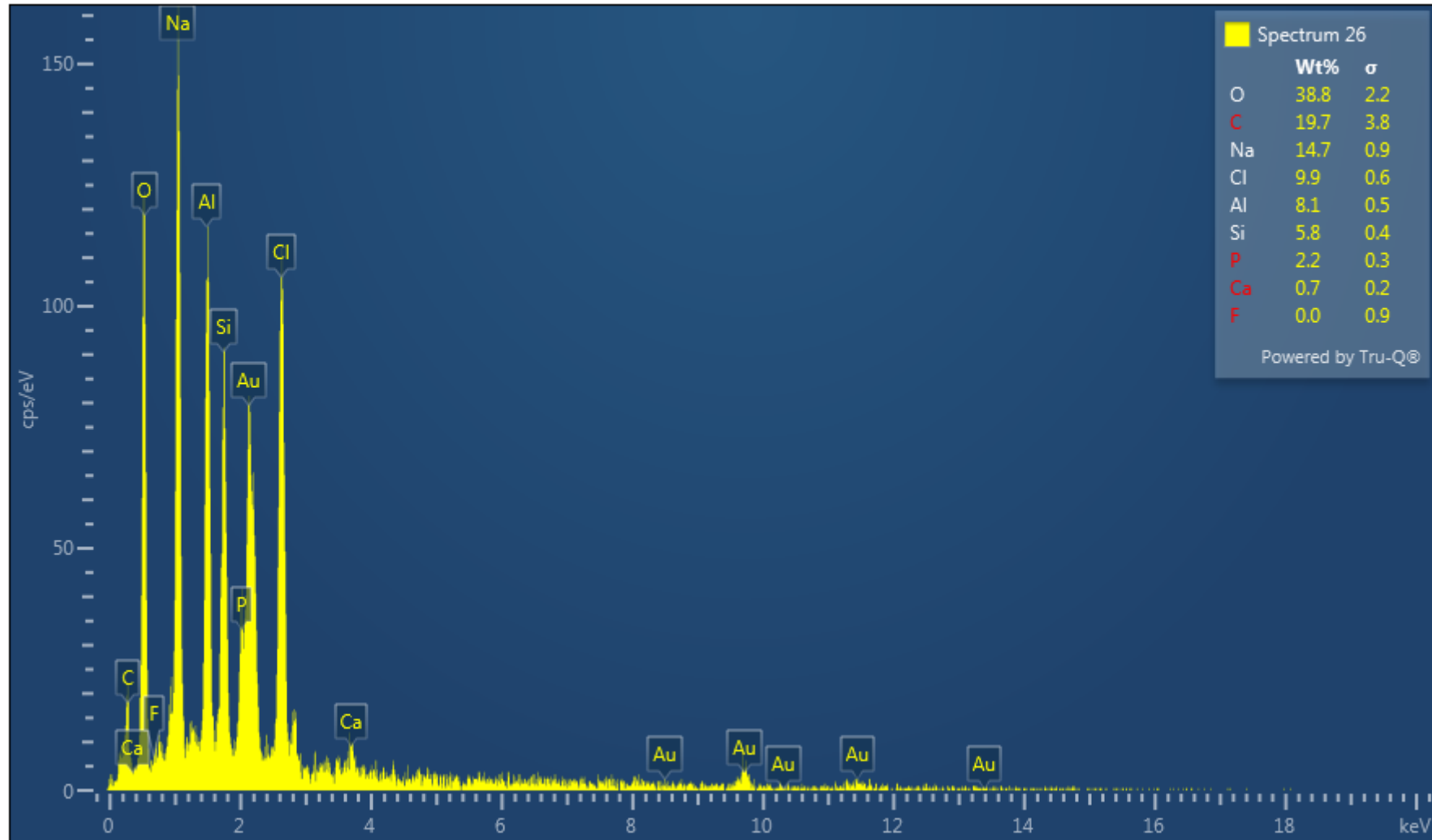
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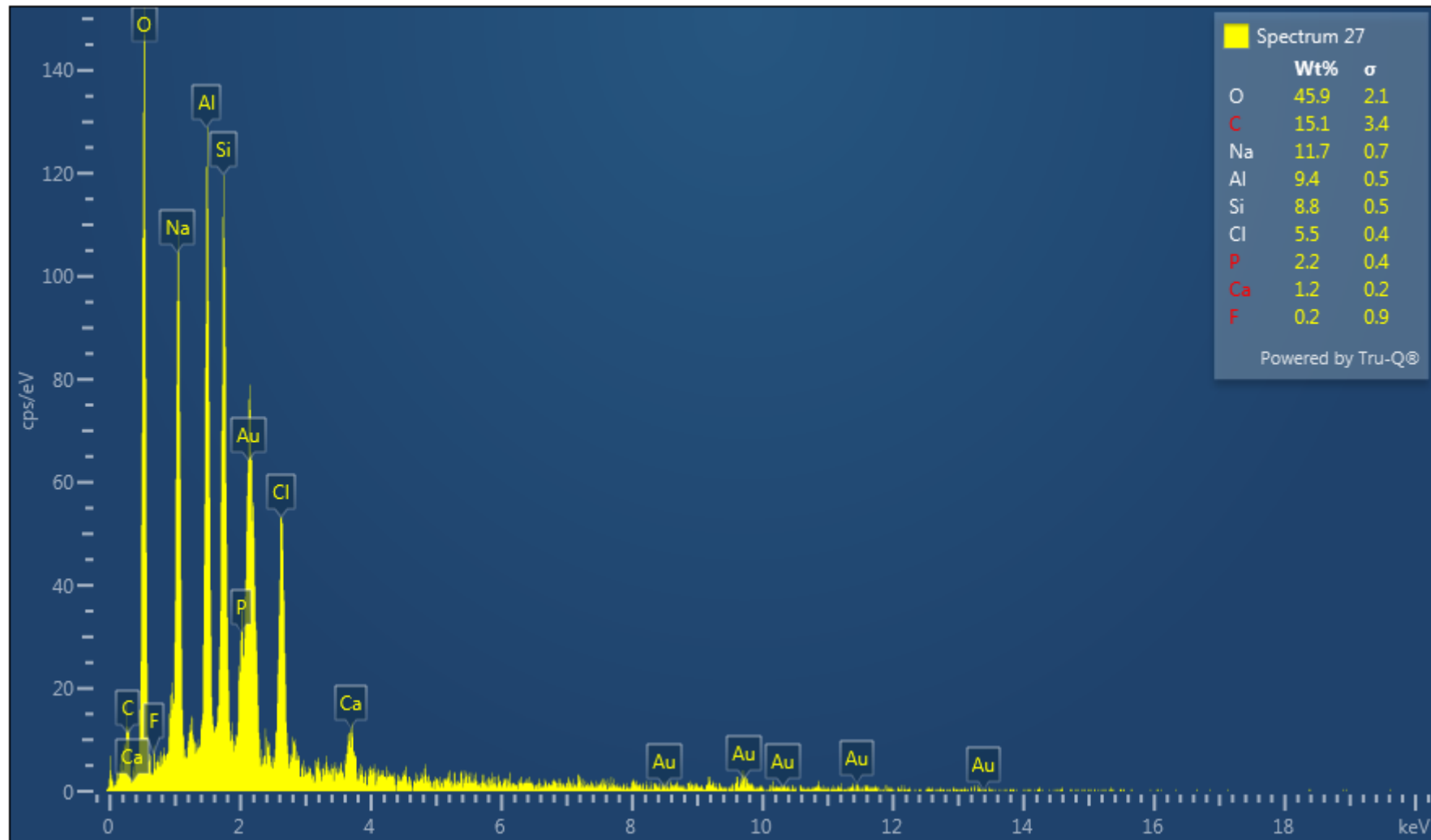
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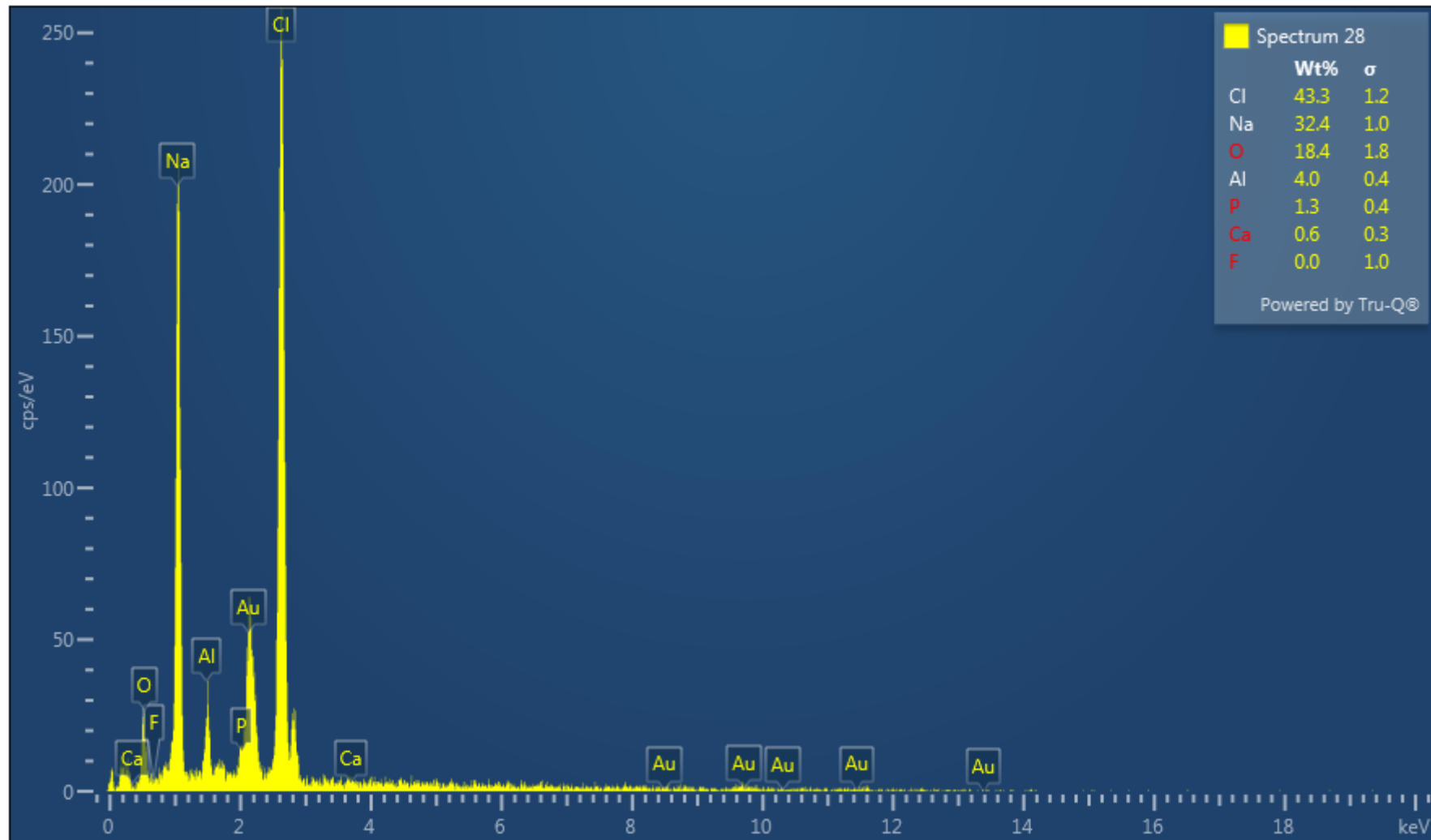




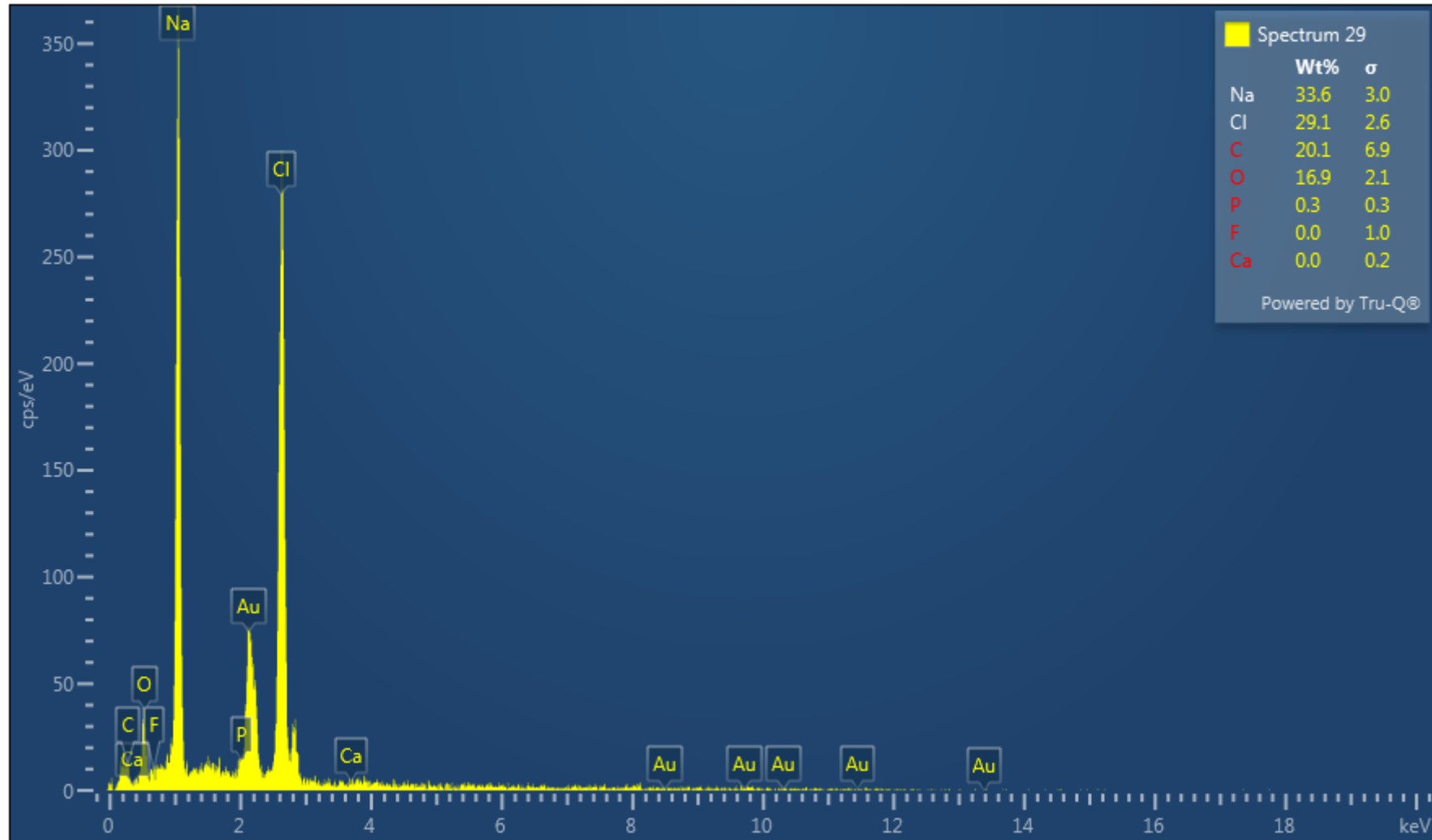
Spectrum 26								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	0.82	0.00823	19.70	3.81	C Vit	Yes	
O	K series	11.92	0.04011	38.84	2.16	SiO2	Yes	
F	K series	0.00	0.00000	0.00	0.95	CaF2	Yes	
Na	K series	7.79	0.03288	14.66	0.89	Albite	Yes	
Al	K series	3.73	0.02678	8.12	0.53	Al2O3	Yes	
Si	K series	2.74	0.02172	5.84	0.42	SiO2	Yes	
P	K series	1.58	0.00884	2.24	0.34	GaP	Yes	
Cl	K series	4.97	0.04342	9.89	0.61	NaCl	Yes	
Ca	K series	0.40	0.00356	0.71	0.18	Wollastonite	Yes	
Total:				100.00				



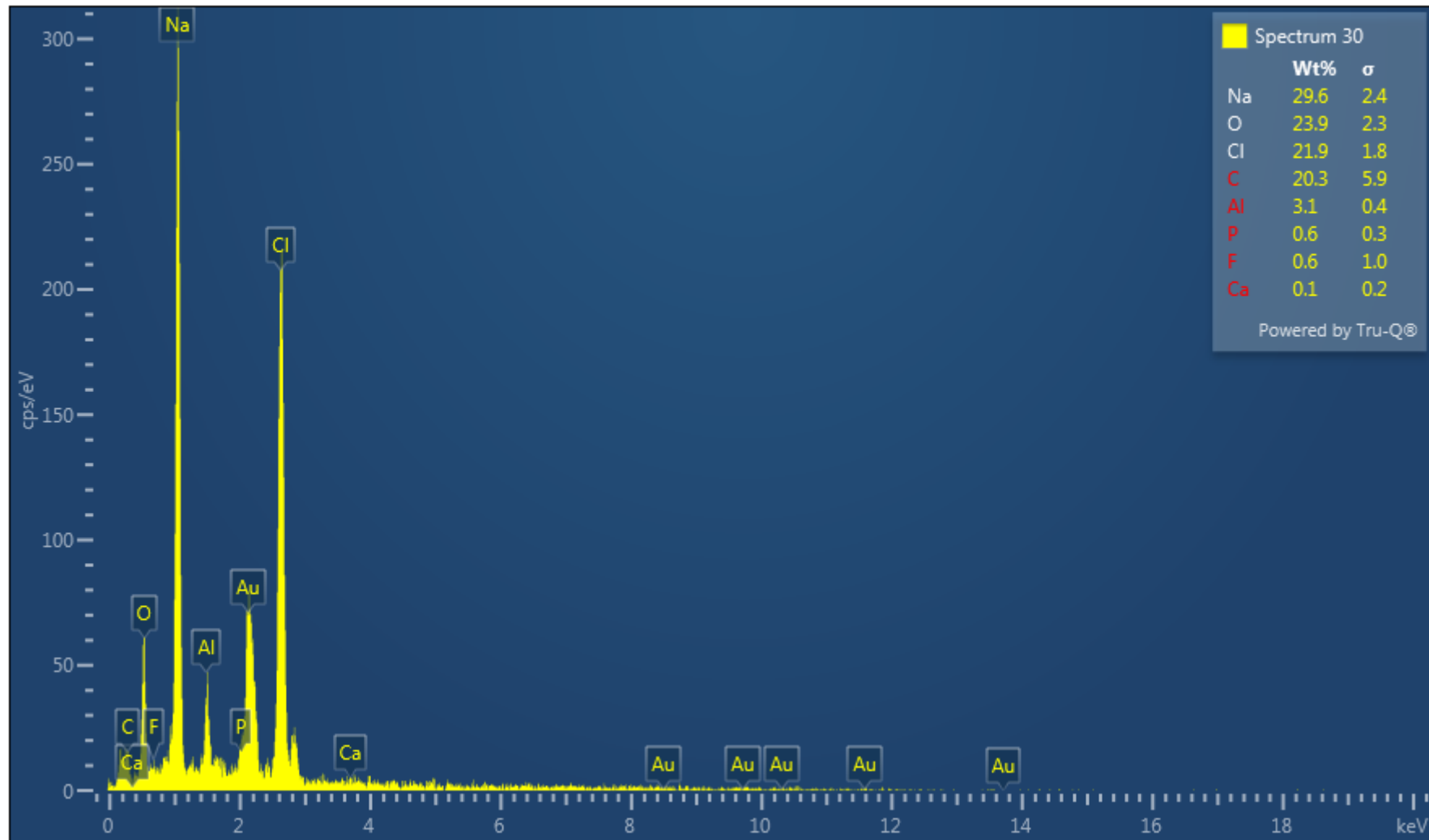
Spectrum 27								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	0.61	0.00607	15.08	3.37	C Vit	Yes	
O	K series	14.24	0.04791	45.86	2.12	SiO2	Yes	
F	K series	0.07	0.00013	0.23	0.93	CaF2	Yes	
Na	K series	5.15	0.02175	11.65	0.70	Albite	Yes	
Al	K series	3.84	0.02757	9.42	0.54	Al2O3	Yes	
Si	K series	3.60	0.02855	8.85	0.52	SiO2	Yes	
P	K series	1.33	0.00744	2.25	0.36	GaP	Yes	
Cl	K series	2.36	0.02058	5.48	0.37	NaCl	Yes	
Ca	K series	0.58	0.00520	1.18	0.20	Wollastonite	Yes	
Total:				100.00				



Spectrum 28								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
O	K series	2.25	0.00758	18.39	1.75	SiO2	Yes	
F	K series	0.00	0.00000	0.00	0.99	CaF2	Yes	
Na	K series	10.63	0.04487	32.40	1.00	Albite	Yes	
Al	K series	0.84	0.00605	4.00	0.39	Al2O3	Yes	
P	K series	0.52	0.00291	1.33	0.41	GaP	Yes	
Cl	K series	11.83	0.10339	43.32	1.16	NaCl	Yes	
Ca	K series	0.15	0.00130	0.55	0.25	Wollastonite	Yes	
Total:				100.00				



Spectrum 29								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	0.46	0.00459	20.11	6.94	C Vit	Yes	
O	K series	3.35	0.01129	16.90	2.13	SiO2	Yes	
F	K series	0.00	0.00000	0.00	1.00	CaF2	Yes	
Na	K series	18.46	0.07791	33.56	3.03	Albite	Yes	
P	K series	0.20	0.00111	0.30	0.32	GaP	Yes	
Cl	K series	13.29	0.11611	29.13	2.64	NaCl	Yes	
Ca	K series	0.00	0.00000	0.00	0.18	Wollastonite	Yes	
Total:				100.00				



Spectrum 30								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	0.56	0.00558	20.25	5.93	C Vit	Yes	
O	K series	5.47	0.01840	23.95	2.27	SiO2	Yes	
F	K series	0.22	0.00043	0.57	0.98	CaF2	Yes	
Na	K series	15.69	0.06622	29.65	2.35	Albite	Yes	
Al	K series	1.08	0.00778	3.06	0.38	Al2O3	Yes	
P	K series	0.39	0.00219	0.60	0.31	GaP	Yes	
Cl	K series	10.04	0.08770	21.88	1.75	NaCl	Yes	
Ca	K series	0.03	0.00023	0.05	0.17	Wollastonite	Yes	
Total:				100.00				

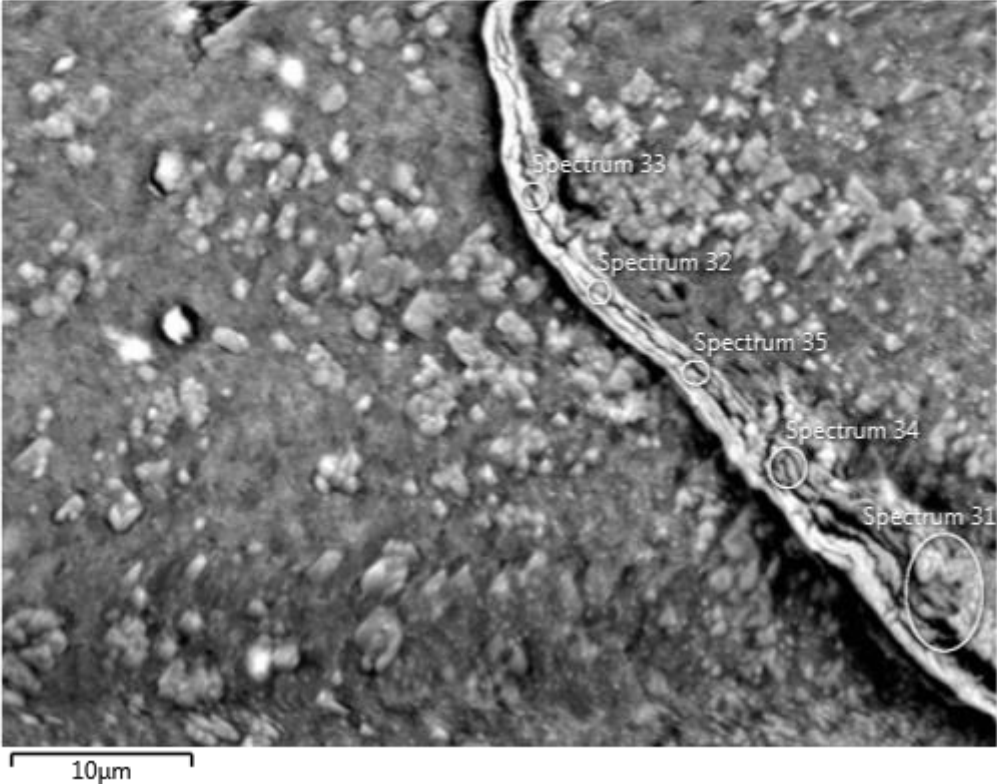
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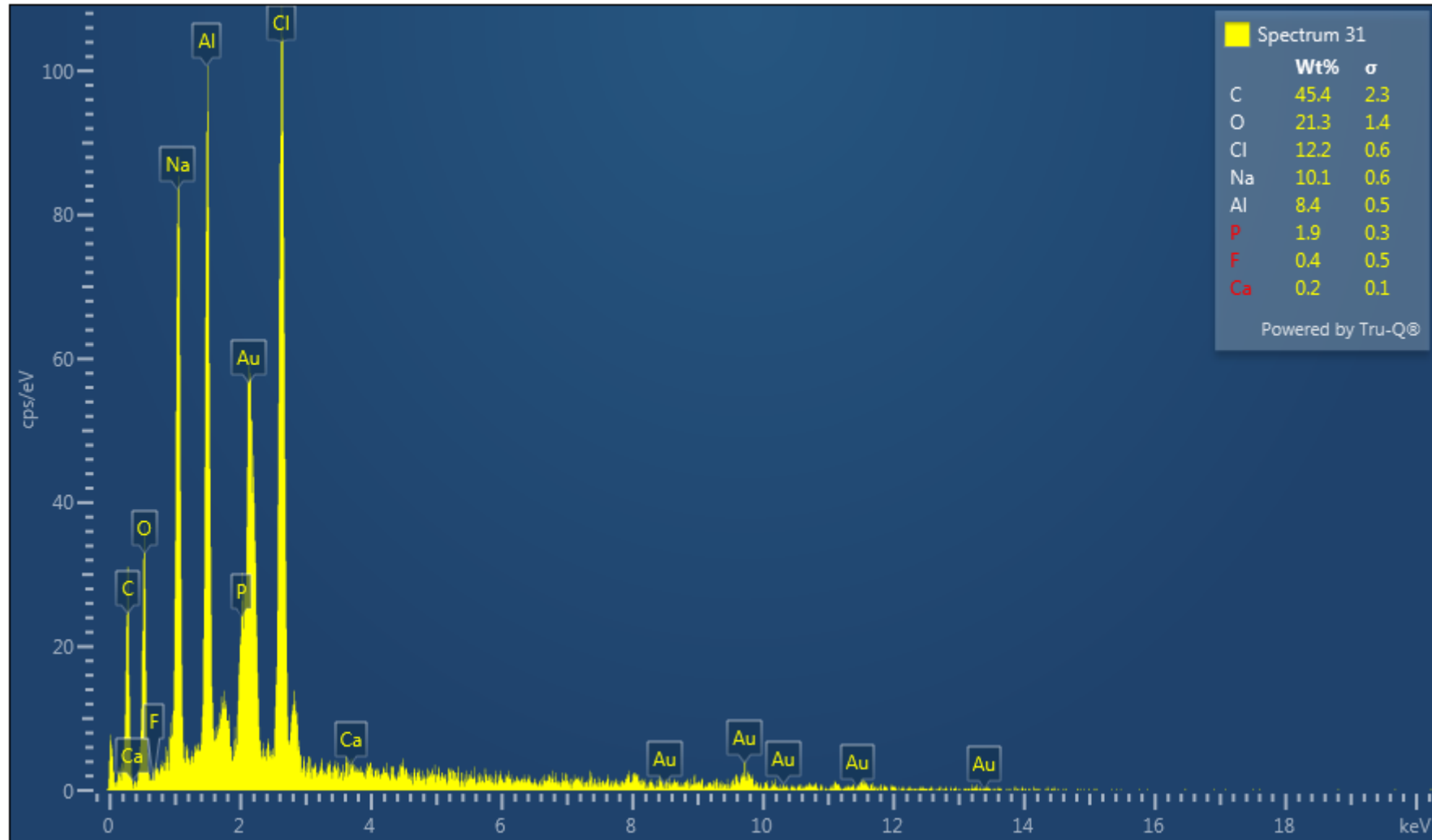
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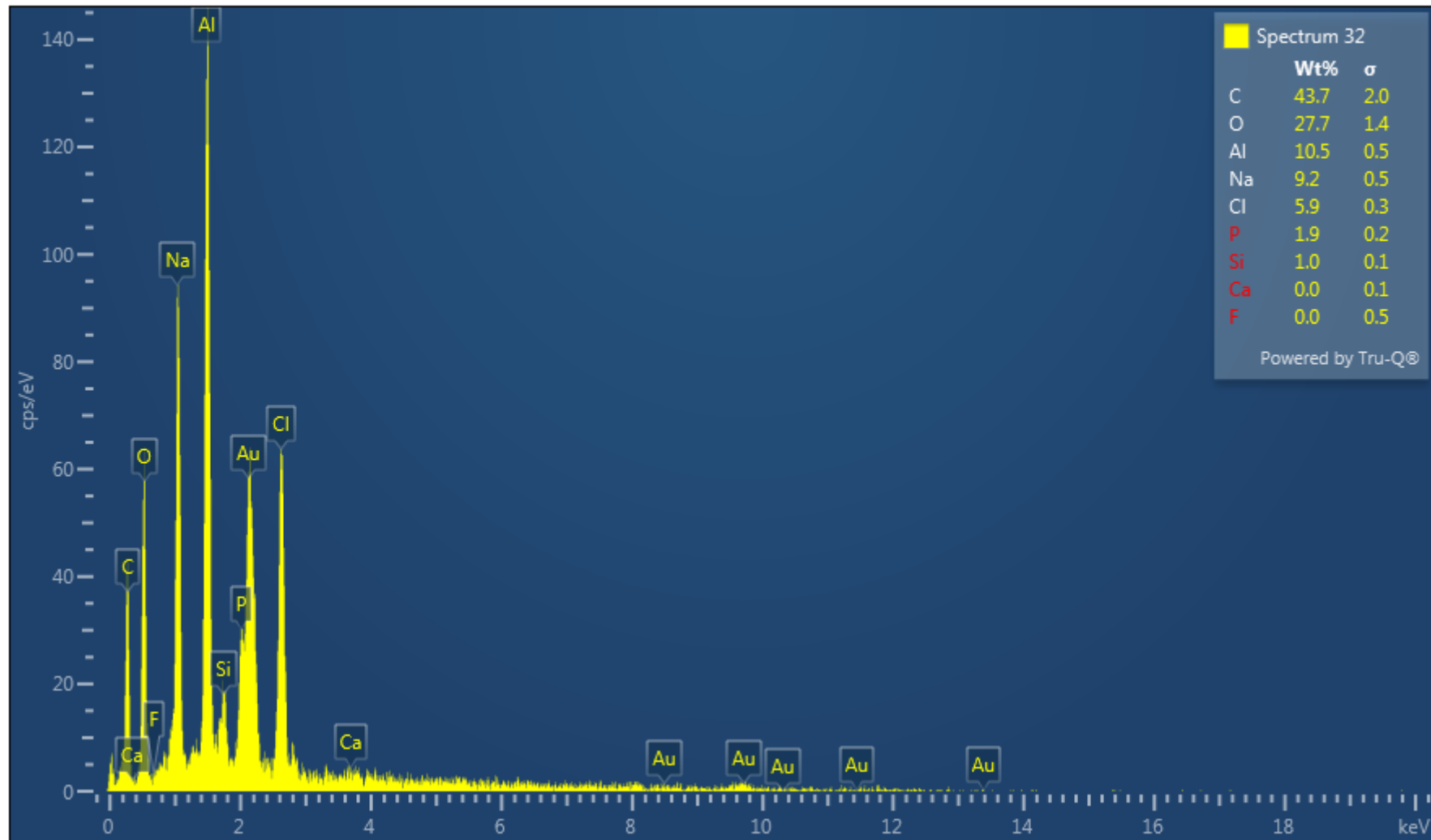
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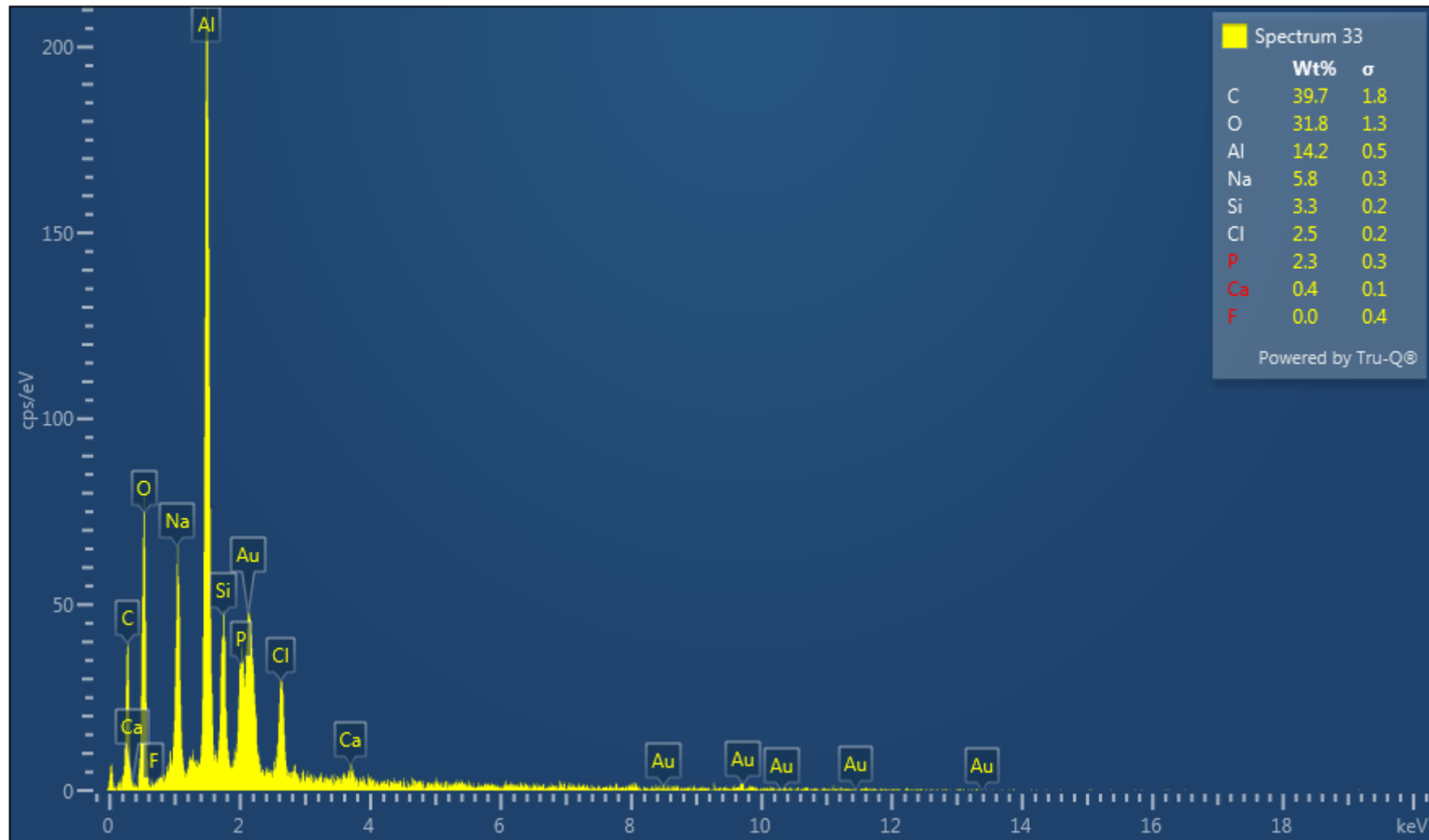




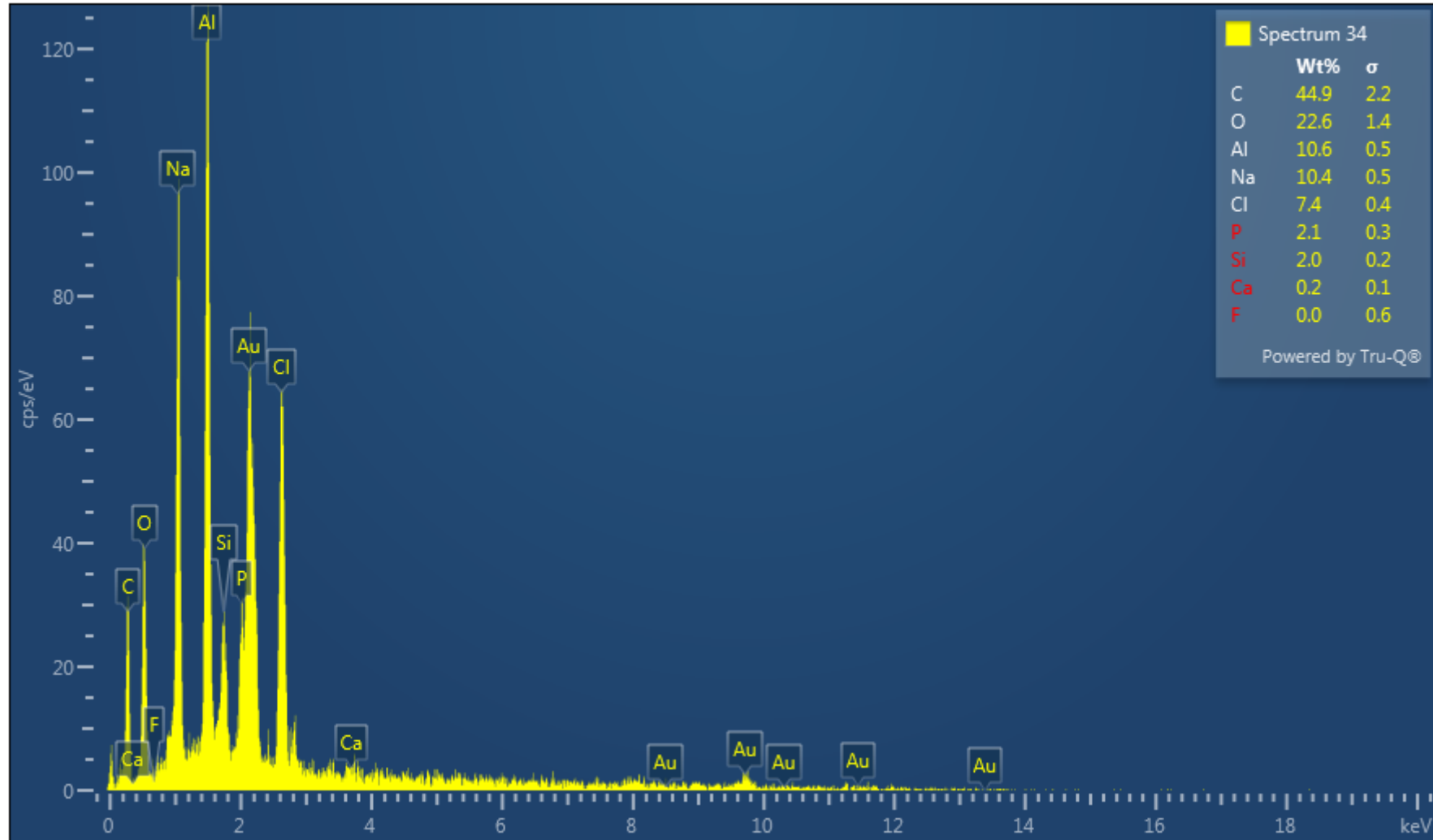
Spectrum 31								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	1.65	0.01646	45.36	2.32	C Vit	Yes	
O	K series	3.28	0.01105	21.32	1.43	SiO2	Yes	
F	K series	0.13	0.00026	0.43	0.52	CaF2	Yes	
Na	K series	4.39	0.01851	10.12	0.56	Albite	Yes	
Al	K series	3.22	0.02312	8.44	0.45	Al2O3	Yes	
P	K series	1.16	0.00649	1.95	0.26	GaP	Yes	
Cl	K series	4.91	0.04293	12.23	0.61	NaCl	Yes	
Ca	K series	0.07	0.00064	0.17	0.13	Wollastonite	Yes	
Total:				100.00				



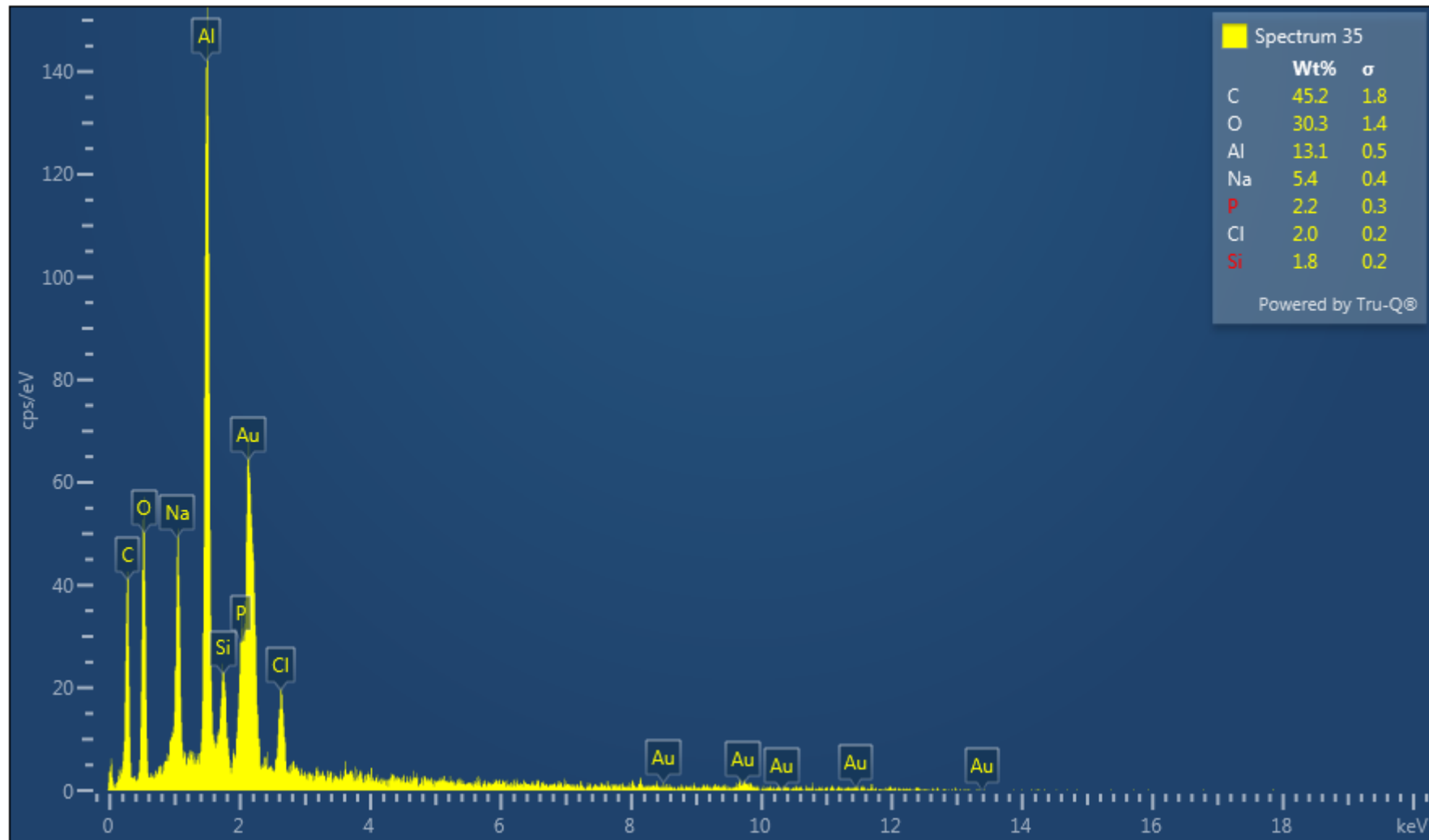
Spectrum 32								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	2.46	0.02464	43.68	1.99	C Vit	Yes	
O	K series	5.91	0.01989	27.74	1.38	SiO2	Yes	
F	K series	0.00	0.00000	0.00	0.53	CaF2	Yes	
Na	K series	4.73	0.01995	9.17	0.47	Albite	Yes	
Al	K series	4.89	0.03515	10.53	0.47	Al2O3	Yes	
Si	K series	0.45	0.00357	1.01	0.15	SiO2	Yes	
P	K series	1.33	0.00745	1.90	0.24	GaP	Yes	
Cl	K series	2.86	0.02498	5.93	0.31	NaCl	Yes	
Ca	K series	0.01	0.00013	0.03	0.11	Wollastonite	Yes	
Total:				100.00				



Spectrum 33								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	2.48	0.02478	39.73	1.81	C Vit	Yes	
O	K series	7.76	0.02610	31.84	1.31	SiO2	Yes	
F	K series	0.00	0.00001	0.01	0.45	CaF2	Yes	
Na	K series	3.07	0.01296	5.76	0.34	Albite	Yes	
Al	K series	7.25	0.05206	14.23	0.54	Al2O3	Yes	
Si	K series	1.51	0.01198	3.29	0.22	SiO2	Yes	
P	K series	1.63	0.00910	2.30	0.25	GaP	Yes	
Cl	K series	1.23	0.01075	2.48	0.18	NaCl	Yes	
Ca	K series	0.20	0.00178	0.35	0.11	Wollastonite	Yes	
Total:				100.00				



Spectrum 34								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	1.87	0.01874	44.89	2.18	C Vit	Yes	
O	K series	3.73	0.01256	22.58	1.43	SiO2	Yes	
F	K series	0.00	0.00000	0.00	0.58	CaF2	Yes	
Na	K series	4.64	0.01960	10.37	0.55	Albite	Yes	
Al	K series	4.11	0.02955	10.58	0.52	Al2O3	Yes	
Si	K series	0.73	0.00579	1.96	0.21	SiO2	Yes	
P	K series	1.20	0.00671	2.08	0.28	GaP	Yes	
Cl	K series	2.93	0.02561	7.37	0.39	NaCl	Yes	
Ca	K series	0.07	0.00063	0.16	0.13	Wollastonite	Yes	
Total:				100.00				



Spectrum 35								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	2.43	0.02432	45.18	1.81	C Vit	Yes	
O	K series	5.30	0.01785	30.32	1.41	SiO2	Yes	
Na	K series	2.18	0.00919	5.41	0.37	Albite	Yes	
Al	K series	5.07	0.03641	13.14	0.54	Al2O3	Yes	
Si	K series	0.62	0.00494	1.77	0.19	SiO2	Yes	
P	K series	1.20	0.00669	2.18	0.29	GaP	Yes	
Cl	K series	0.76	0.00661	1.99	0.18	NaCl	Yes	
Total:				100.00				

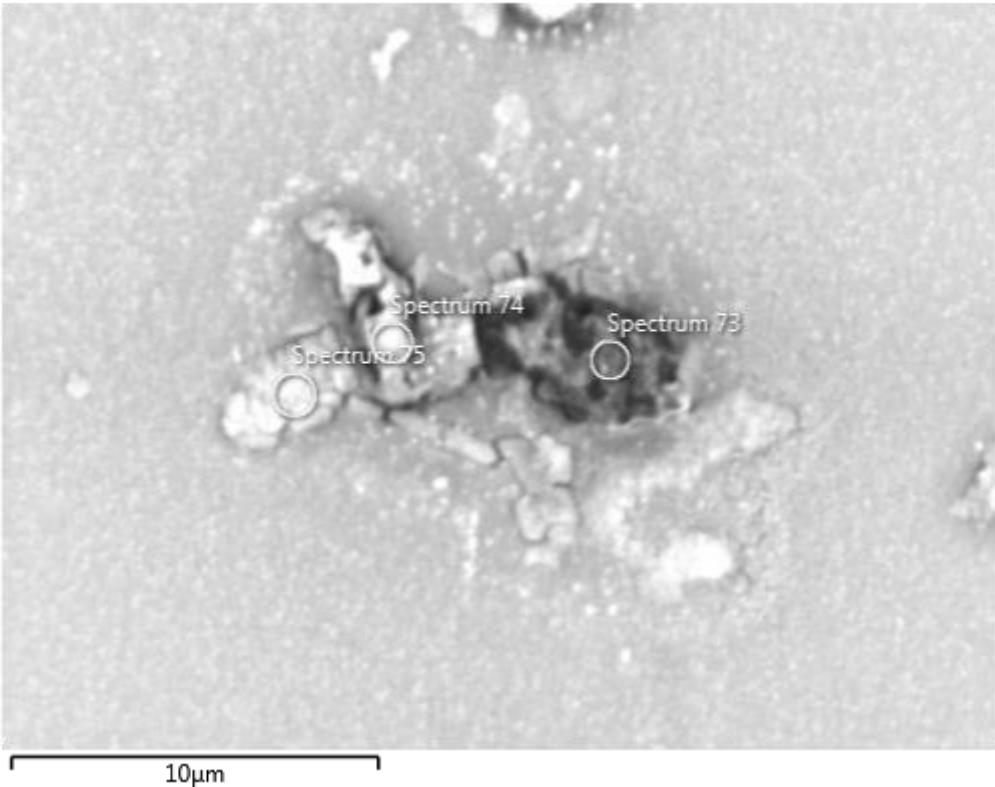
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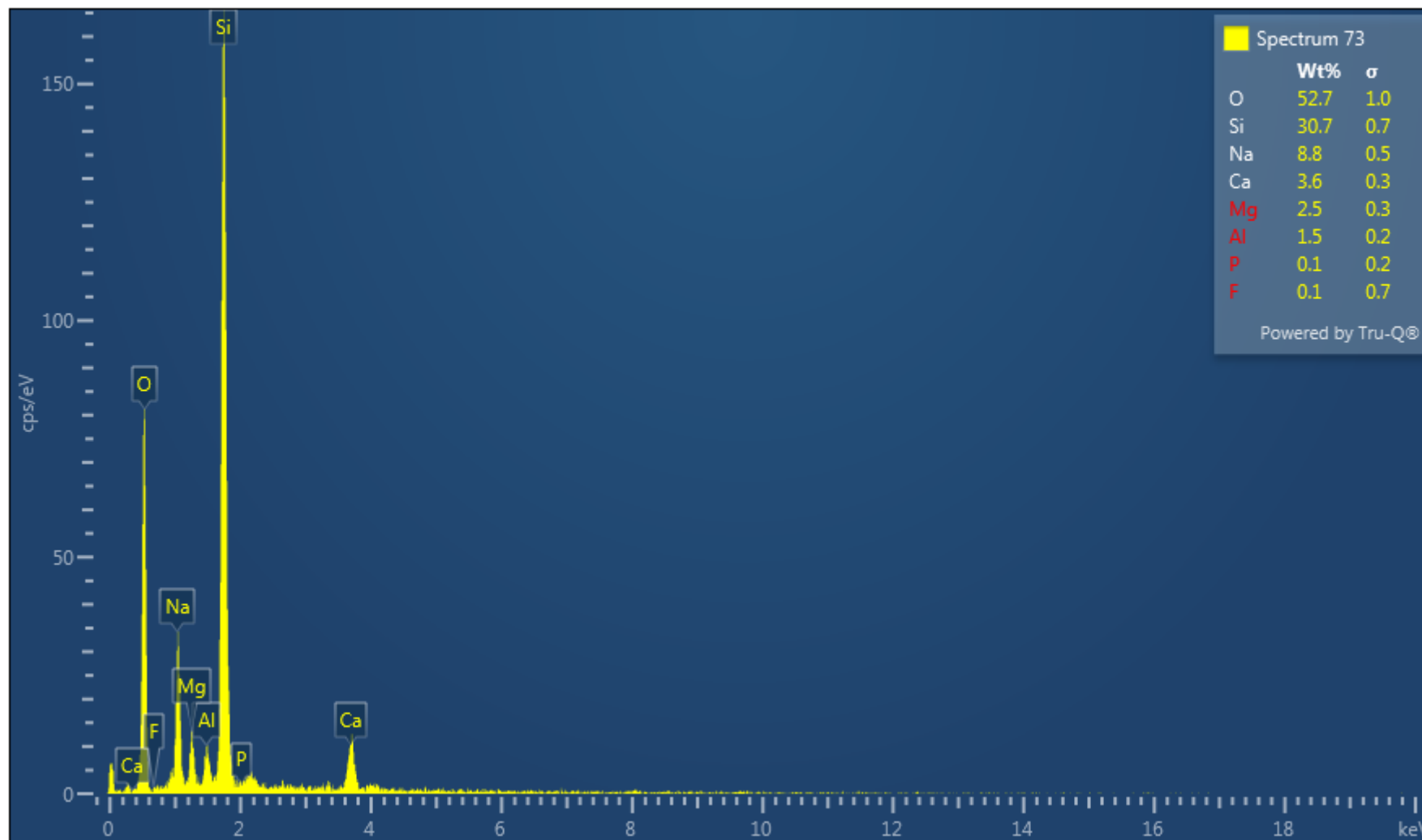
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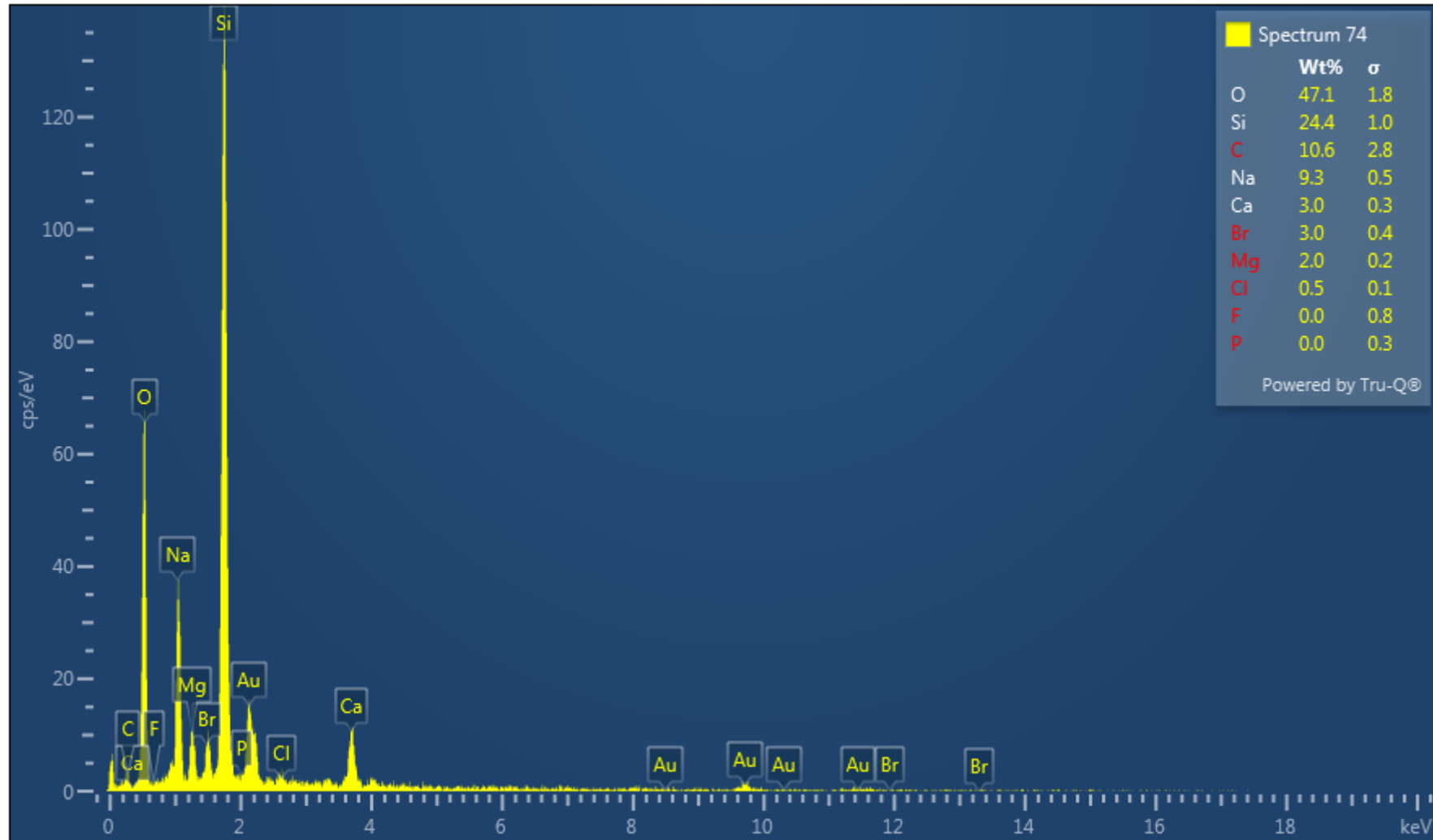
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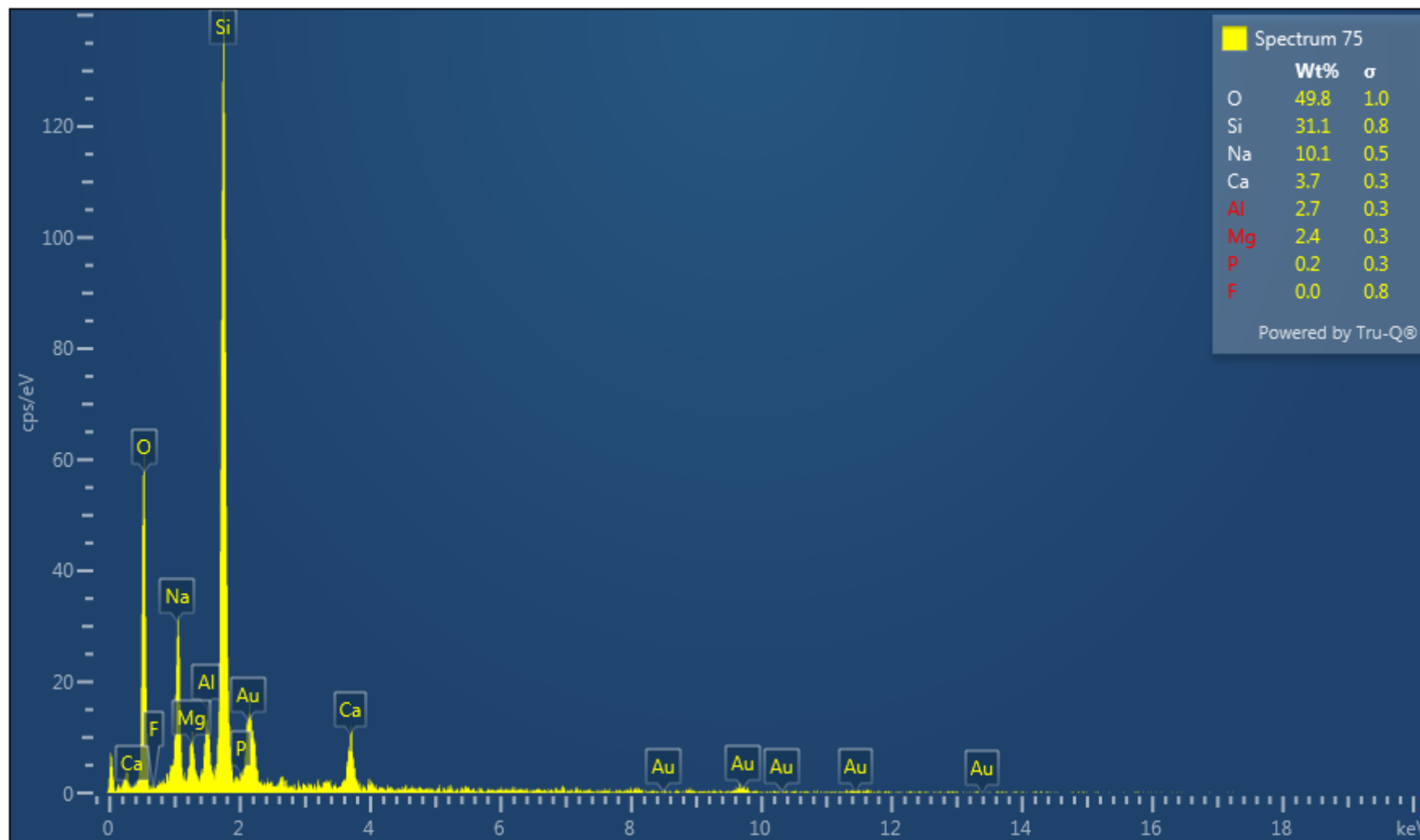




Spectrum 73								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
O	K series	8.07	0.02715	52.74	0.98	SiO2	Yes	
F	K series	0.01	0.00002	0.09	0.72	CaF2	Yes	
Na	K series	1.56	0.00659	8.77	0.46	Albite	Yes	
Mg	K series	0.37	0.00244	2.54	0.25	MgO	Yes	
Al	K series	0.24	0.00174	1.45	0.20	Al2O3	Yes	
Si	K series	5.67	0.04493	30.68	0.71	SiO2	Yes	
P	K series	0.03	0.00014	0.12	0.23	GaP	Yes	
Ca	K series	0.73	0.00648	3.59	0.26	Wollastonite	Yes	
Total:				100.00				



Spectrum 74								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
C	K series	0.19	0.00191	10.60	2.83	C Vit	Yes	
O	K series	6.55	0.02205	47.11	1.78	SiO2	Yes	
F	K series	0.00	0.00000	0.00	0.76	CaF2	Yes	
Na	K series	1.82	0.00767	9.30	0.54	Albite	Yes	
Mg	K series	0.32	0.00211	2.04	0.24	MgO	Yes	
Si	K series	4.75	0.03768	24.44	0.97	SiO2	Yes	
P	K series	0.00	0.00000	0.00	0.26	GaP	Yes	
Cl	K series	0.09	0.00075	0.47	0.14	NaCl	Yes	
Ca	K series	0.66	0.00592	3.03	0.25	Wollastonite	Yes	
Br	L series	0.48	0.00426	3.00	0.40	KBr	Yes	
Total:				100.00				



Spectrum 75								
Element	Line Type	Apparent Concentration	k Ratio	Wt%	Wt% Sigma	Standard Label	Factory Standard	Standard Calibration Date
O	K series	6.10	0.02052	49.80	1.03	SiO2	Yes	
F	K series	0.00	0.00000	0.00	0.85	CaF2	Yes	
Na	K series	1.52	0.00641	10.07	0.54	Albite	Yes	
Mg	K series	0.29	0.00189	2.40	0.30	MgO	Yes	
Al	K series	0.37	0.00266	2.70	0.29	Al2O3	Yes	
Si	K series	4.68	0.03712	31.13	0.75	SiO2	Yes	
P	K series	0.04	0.00023	0.24	0.35	GaP	Yes	
Ca	K series	0.61	0.00544	3.66	0.29	Wollastonite	Yes	
Total:				100.00				