	A	A-MEAN	B	B-MEAN	C	C-MEAN	D	D-MEAN	E	E-MEAN	F	F-MEAN	G	G-MEAN	H	H-MEAN	I	I-MEAN	J	J-MEAN	K	K-MEAN	L	L-MEAN	M	M-MEAN	O	O-MEAN	R	R -MEAN	S	S-MEAN	STDEV	MEAN
Sample 1	68.50	1.04	66.51	-0.95	69.17	1.71	67.00	-0.46	68.57	1.11			67.54	0.08	67.00	-0.46			65.80	-1.66	67.90	0.44	67.40	-0.06	67.3	-0.16	67.47	0.01	67.55	0.09	66.70	-0.76	0.88	67.46
Sample 2	67.50	0.96	66.19	-0.35	67.51	0.97	67.00	0.46	67.11	0.57			65.79	-0.75	66.60	0.06			65.85	-0.69	66.40	-0.14	66.24	-0.30	66.25	-0.29	66.94	0.40	65.89	-0.65	66.25	-0.29	0.58	66.54
Sample 3	68.25	0.30	67.44	-0.51	69.22	1.27	68.75	0.80	68.65	0.70			67.69	-0.26	67.50	-0.45			67.70	-0.25	68.60	0.65	67.42	-0.53	67.45	-0.50	67.65	-0.30	67.65	-0.30	67.30	-0.65	0.62	67.95
Mean Absolute Difference		0.77		0.60		1.32		0.57		0.79				0.36		0.32				0.86		0.41		0.29		0.31		0.24		0.35		0.56			
Mean of Difference		0.77		-0.60		1.32		0.27		0.79				-0.31		-0.28				-0.86		0.32		-0.29		-0.31		0.04		-0.28		-0.56			

Table title: **Test Weight (kg/hL)**

Test Weight (kg/hL) - Deviation from Mean by Lab

	A	B	C	D	E	F	G	H	I	J	K	L	M	O	R	S
Sample 1	1.18	-1.07	1.94	-0.52	1.26		0.09	-0.52		-1.88	0.50	-0.06	-0.18	0.01	0.11	-0.86
Sample 2	1.65	-0.60	1.67	0.79	0.98		-1.28	0.11		-1.18	-0.24	-0.51	-0.49	0.69	-1.11	-0.49
Sample 3	0.49	-0.82	2.05	1.30	1.14		-0.42	-0.72		-0.40	1.06	-0.85	-0.80	-0.48	-0.48	-1.05
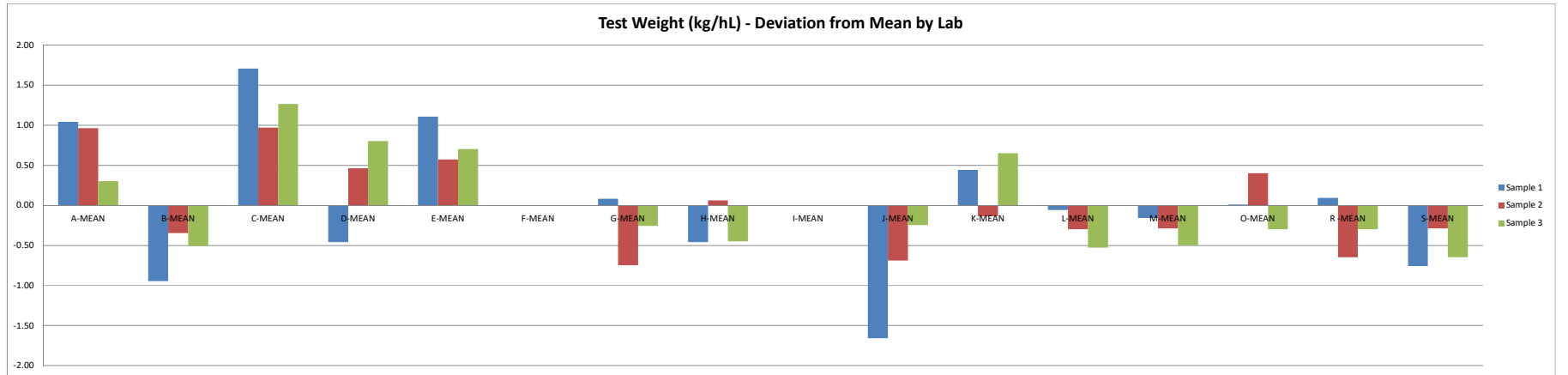
Table title: **Test Weight (kg/hL) Z - score**

	A	A-MEAN	B	B-MEAN	C	C-MEAN	D	D-MEAN	E	E-MEAN	F	F-MEAN	G	G-MEAN	H	H-MEAN	I	I-MEAN	J	J-MEAN	K	K-MEAN	L	L-MEAN	M	M-MEAN	O	O-MEAN	R	R -MEAN	S	S-MEAN	STDEV	MEAN
Sample 1	0.59	-0.10	0.90	0.22	0.53	-0.16	0.95	0.27	0.65	-0.04			0.67	-0.01	0.65	-0.04			0.80	0.12	0.68	0.00	0.79	0.10	0.58	-0.11	0.80	0.12	0.45	-0.24	0.58	-0.11	0.14	0.69
Sample 2	1.49	-0.48	2.80	0.83	2.56	0.59	1.70	-0.27	2.36	0.39			2.07	0.10	1.55	-0.42			0.90	-1.07	1.84	-0.13	2.88	0.91	1.42	-0.55	3.10	1.13	1.95	-0.02	0.96	-1.01	0.70	1.97
Sample 3	0.83	-0.06	1.10	0.21	0.91	0.02	0.90	0.01	0.99	0.10			0.95	0.06	0.80	-0.09			0.60	-0.29	0.88	-0.01	1.29	0.40	0.98	0.09	1.10	0.21	0.75	-0.14	0.39	-0.50	0.22	0.89
Mean Absolute Difference		0.22		0.42		0.26		0.18		0.18				0.06		0.18				0.49		0.05		0.47		0.25		0.49		0.13		0.54		
Mean of Difference		-0.22		0.42		0.15		0.00		0.15				0.05		-0.18				-0.41		-0.05		0.47		-0.19		0.49		-0.13		-0.54		

Impurities (% by Weight)

Impurities (% by Weight) - Deviation from Mean by Lab

	A	B	C	D	E	F	G	H	I	J	K	L	M	O	R	S
Sample 1	-0.69	1.49	-1.11	1.84	-0.28		-0.10	-0.24		0.80	-0.03	0.69	-0.76	0.80	-1.63	-0.76
Sample 2	-0.70	1.20	0.85	-0.39	0.56		0.15	-0.60		-1.54	-0.19	1.31	-0.79	1.63	-0.03	-1.46
Sample 3	-0.29	0.96	0.07	0.05	0.46		0.26	-0.40		-1.30	-0.04	1.79	0.39	0.96	-0.63	-2.28
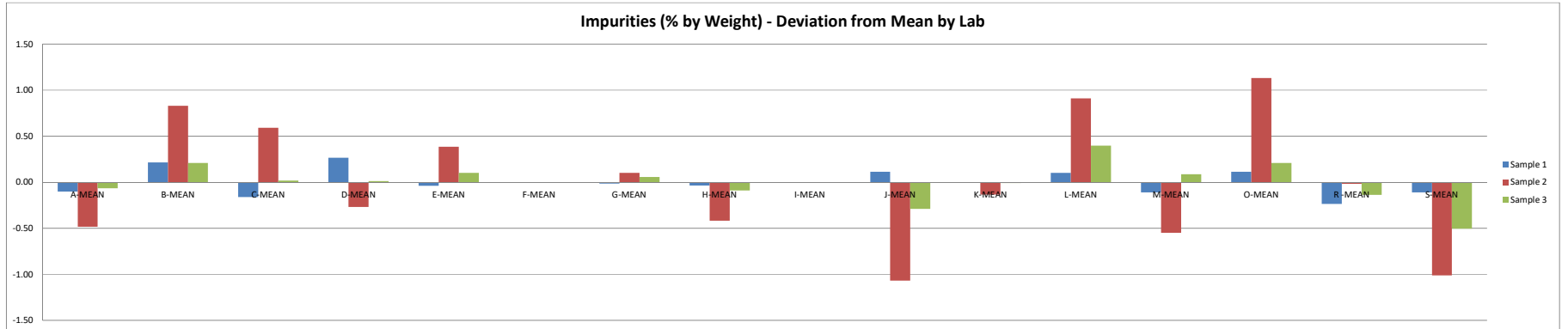
Impurities (% by Weight) Z - score

	A	A-MEAN	B	B-MEAN	C	C-MEAN	D	D-MEAN	E	E-MEAN	F	F-MEAN	G	G-MEAN	H	H-MEAN	I	I-MEAN	J	J-MEAN	K	K-MEAN	L	L-MEAN	M	M-MEAN	O	O-MEAN	R	R-MEAN	S	S-MEAN	STDEV	MEAN
																																			Oil NIR (% by Weight)	
Sample 1			47.48	-0.13	47.30	-0.31	47.40	-0.21	47.70	0.09			48.17	0.56	47.55	-0.06	48.27	0.66	47.50	-0.11	47.35	-0.26	47.07	-0.54	47.95	0.34	47.45	-0.16	47.90	0.29	47.40	-0.21	0.35	47.61
Sample 2			46.71	0.32	45.80	-0.59	46.25	-0.14	46.55	0.16			47.09	0.70	46.30	-0.09	46.21	-0.18	46.50	0.11	45.95	-0.44	46.77	0.38	46.10	-0.29	46.46	0.07	47.07	0.68	45.70	-0.69	0.43	46.39
Sample 3			43.87	-0.03	43.90	0.00	44.20	0.30	43.30	-0.60			43.94	0.04	44.05	0.15	43.09	-0.81	44.50	0.60	44.00	0.10	43.20	-0.70	44.70	0.80	44.07	0.17	44.26	0.35	43.55	-0.35	0.47	43.90
Mean Absolute Difference				0.16		0.30		0.21		0.29				0.43		0.10		0.55		0.27		0.26		0.54		0.48		0.13		0.44		0.42		
Mean of Difference				0.05		-0.30		-0.02		-0.12				0.43		0.00		-0.11		0.20		-0.20		-0.29		0.28		0.02		0.44		-0.42		

Oil NIR (% by Weight) - Deviation from Mean by Lab
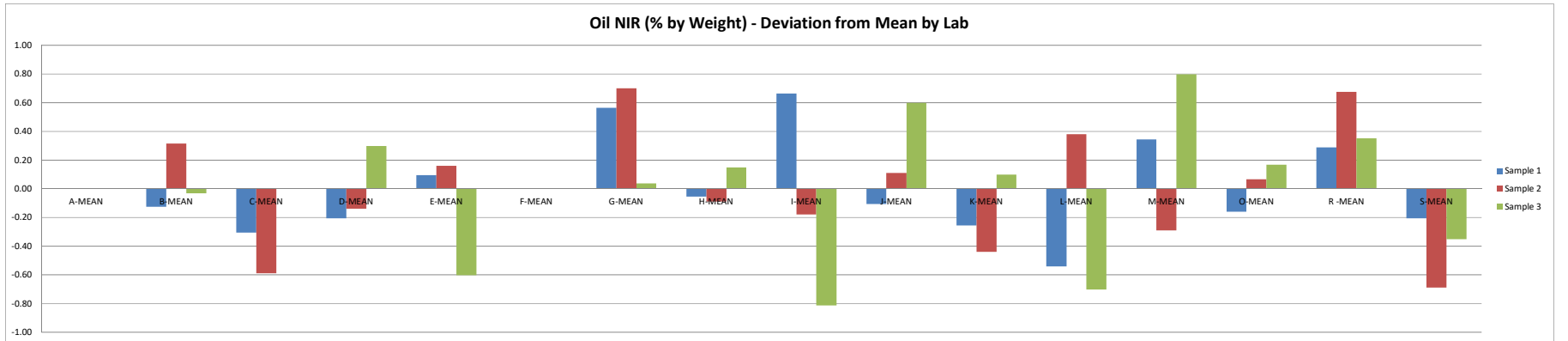
	A	B	C	D	E	F	G	H	I	J	K	L	M	O	R	S
												Oil NIR (% by Weight) Z - score				
Sample 1		-0.36	-0.88	-0.59	0.27		1.63	-0.16	1.92	-0.30	-0.74	-1.56	0.99	-0.46	0.84	-0.59
Sample 2		0.74	-1.37	-0.32	0.38		1.63	-0.21	-0.42	0.26	-1.02	0.89	-0.67	0.15	1.58	-1.61
Sample 3		-0.07	0.00	0.63	-1.27		0.08	0.31	-1.72	1.26	0.21	-1.48	1.69	0.36	0.75	-0.74

Oil Solvent (% by Weight)

	A	A-MEAN	B	B-MEAN	C	C-MEAN	D	D-MEAN	E	E-MEAN	F	F-MEAN	G	G-MEAN	H	H-MEAN	I	I-MEAN	J	J-MEAN	K	K-MEAN	L	L-MEAN	M	M-MEAN	O	O-MEAN	R	R-MEAN	S	S-MEAN	STDEV	MEAN
Sample 1	46.98	0.16					46.65	-0.16	47.00	0.19									47.50	0.69					46.47	-0.34	47.08	0.26			46.00	-0.81	0.48	46.81
Sample 2	47.24	0.88					44.10	-2.26	46.83	0.47									46.80	0.44					46.01	-0.36	47.20	0.84			46.35	-0.01	1.09	46.36
Sample 3	43.90	0.10					43.45	-0.35	44.06	0.26									44.65	0.85					43.68	-0.12	44.01	0.21			42.85	-0.95	0.56	43.80
Mean Absolute Difference		0.38						0.92		0.31										0.66						0.27		0.44				0.59		
Mean of Difference		0.38						-0.92		0.31										0.66						-0.27		0.44				-0.59		

Oil Solvent (% by Weight) - Deviation from Mean by Lab
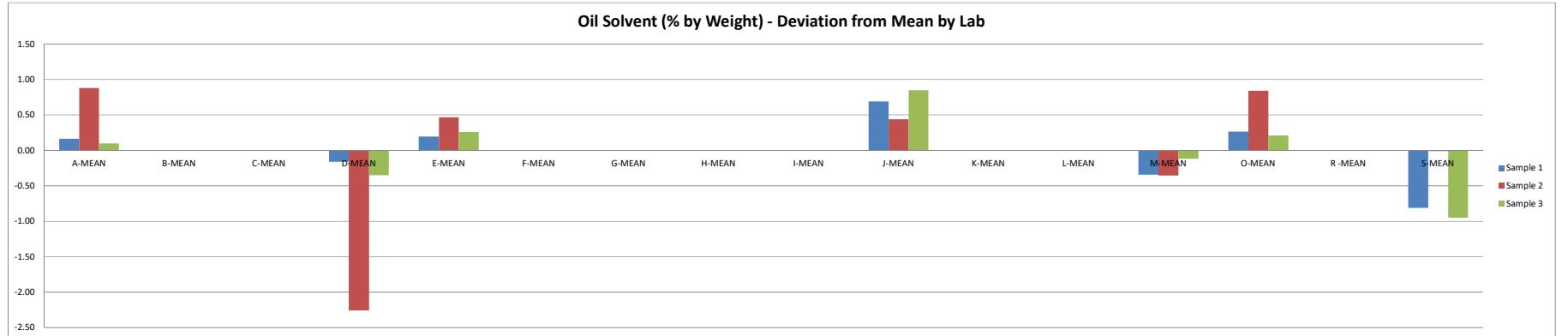
Oil Solvent (% by Weight) Z - score

	A	B	C	D	E	F	G	H	I	J	K	L	M	O	R	S
Sample 1	0.34			-0.33	0.40					1.42			-0.70	0.55		-1.67
Sample 2	0.81			-2.07	0.43					0.40			-0.33	0.77		-0.01
Sample 3	0.18			-0.63	0.47					1.52			-0.21	0.37		-1.70

	A	A-MEAN	B	B-MEAN	C	C-MEAN	D	D-MEAN	E	E-MEAN	F	F-MEAN	G	G-MEAN	H	H-MEAN	I	I-MEAN	J	J-MEAN	K	K-MEAN	L	L-MEAN	M	M-MEAN	O	O-MEAN	R	R-MEAN	S	S-MEAN	STDEV	MEAN
Moisture Oven (% by Weight)																																				
Sample 1	5.11	-0.23	5.47	0.14	5.20	-0.14	5.00	-0.33	5.50	0.17			5.22	-0.12			5.37	0.04	5.25	-0.08			5.45	0.12	5.38	0.05	5.46	0.13	5.46	0.13	5.45	0.12	0.16	5.33
Sample 2	5.01	-0.37	5.50	0.12	5.22	-0.16	5.14	-0.24	5.60	0.22			5.32	-0.06			5.36	-0.02	5.40	0.02			5.53	0.15	5.50	0.12	5.40	0.02	5.49	0.11	5.45	0.07	0.17	5.38
Sample 3	5.19	-0.15	5.53	0.19	4.91	-0.43	5.15	-0.19	5.50	0.16			5.14	-0.20			5.49	0.15	5.40	0.06					5.40	0.06	5.42	0.08	5.48	0.14	5.45	0.11	0.20	5.34
Mean Absolute Difference		0.25		0.15		0.24		0.25		0.19				0.13				0.07		0.06						0.08		0.08		0.13		0.10			
Mean of Difference		-0.25		0.15		-0.24		-0.25		0.19				-0.13				0.06		0.00						0.08		0.08		0.13		0.10			

Moisture Oven (% by Weight) - Deviation from Mean by Lab
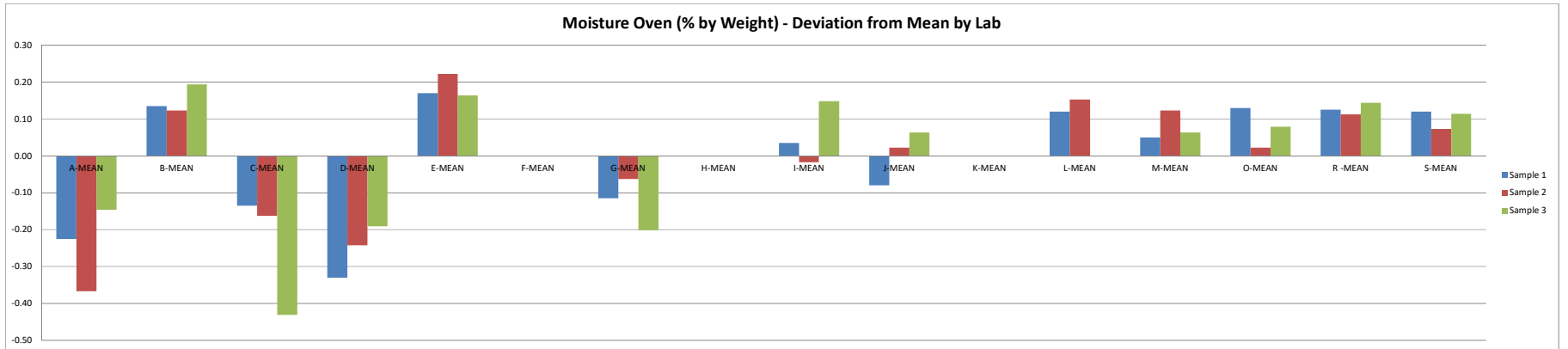
Moisture Oven (% by Weight) Z - score	A	B	C	D	E	F	G	H	I	J	K	L	M	O	R	S
Sample 1	-1.40	0.84	-0.84	-2.05	1.06		-0.72		0.22	-0.50		0.75	0.31	0.81	0.78	0.75
Sample 2	-2.16	0.72	-0.96	-1.43	1.31		-0.37		-0.10	0.13		0.90	0.72	0.13	0.66	0.43
Sample 3	-0.75	0.99	-2.21	-0.98	0.84		-1.03		0.76	0.33			0.33	0.40	0.74	0.58

Moisture NIR (% by Weight)

	A	A-MEAN	B	B-MEAN	C	C-MEAN	D	D-MEAN	E	E-MEAN	F	F-MEAN	G	G-MEAN	H	H-MEAN	I	I-MEAN	J	J-MEAN	K	K-MEAN	L	L-MEAN	M	M-MEAN	O	O-MEAN	R	R -MEAN	S	S-MEAN	STDEV	MEAN
Sample 1			4.65	-0.29	4.70	-0.24	4.75	-0.19	5.70	0.76			4.55	-0.39			5.58	0.64	5.20	0.26	4.75	-0.19	5.91	0.97	4.15	-0.79	4.63	-0.31	4.70	-0.24	4.90	-0.04	0.51	4.94
Sample 2			4.88	-0.14	4.85	-0.17	4.85	-0.17	5.65	0.63			4.67	-0.35			5.56	0.54	5.30	0.28	4.95	-0.07	6.09	1.06	4.15	-0.87	4.77	-0.25	4.68	-0.34	4.90	-0.12	0.50	5.02
Sample 3			4.77	-0.12	4.90	0.01	4.90	0.01	5.55	0.66			4.45	-0.44			5.71	0.82	5.25	0.36	4.80	-0.09			4.05	-0.84	4.63	-0.26	4.65	-0.24	5.00	0.11	0.46	4.89
Mean Absolute Difference				0.18		0.14		0.12		0.68				0.39				0.67		0.30		0.12				0.83		0.27		0.27		0.09		
Mean of Difference				-0.18		-0.13		-0.12		0.68				-0.39				0.67		0.30		-0.12				-0.83		-0.27		-0.27		-0.02		

Moisture NIR (% by Weight) - Deviation from Mean by Lab
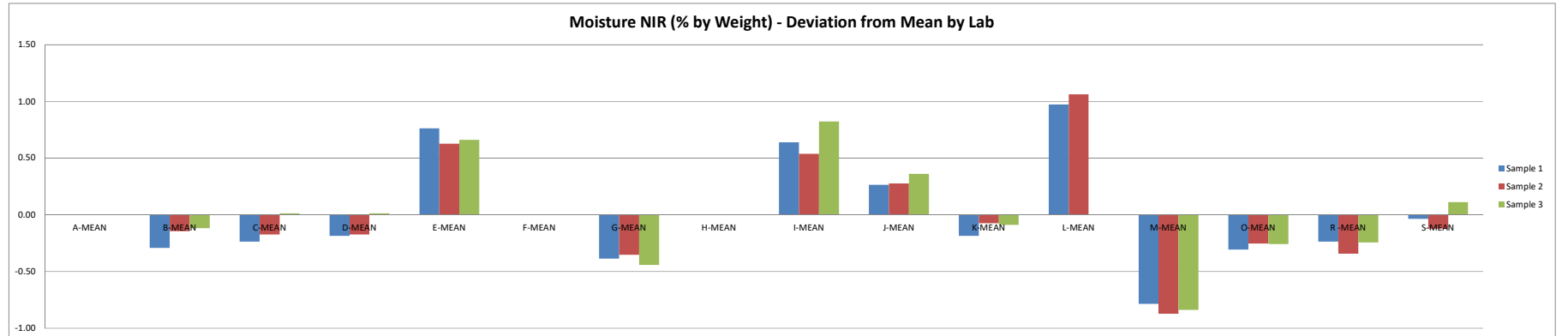
Moisture NIR (% by Weight) Z - score

	A	B	C	D	E	F	G	H	I	J	K	L	M	O	R	S
Sample 1		-0.57	-0.46	-0.36	1.50		-0.75		1.25	0.52	-0.36	1.91	-1.54	-0.60	-0.46	-0.07
Sample 2		-0.28	-0.34	-0.34	1.24		-0.70		1.06	0.55	-0.14	2.11	-1.73	-0.50	-0.68	-0.24
Sample 3		-0.26	0.03	0.03	1.45		-0.97		1.80	0.79	-0.19		-1.83	-0.56	-0.53	0.25

Oleic Acid (% by Weight)

	A	A-MEAN	B	B-MEAN	C	C-MEAN	D	D-MEAN	E	E-MEAN	F	F-MEAN	G	G-MEAN	H	H-MEAN	I	I-MEAN	J	J-MEAN	K	K-MEAN	L	L-MEAN	M	M-MEAN	O	O-MEAN	R	R -MEAN	S	S-MEAN	STDEV	MEAN
Sample 1	70.77	12.89					70.90	13.02							4.60	-53.28											70.44	12.56					72.68	14.80	29.80	57.88
Sample 2	57.38	9.95					58.85	11.42							4.90	-42.53											56.50	9.07					59.52	12.09	23.80	47.43
Sample 3	61.22	10.52					62.60	11.90							4.80	-45.90											61.96	11.26					62.91	12.21	25.67	50.70
Mean Absolute Difference		11.12						12.12								47.23												10.96						13.03		
Mean of Difference		11.12						12.12								-47.23												10.96						13.03		

Oleic Acid (% by Weight) - Deviation from Mean by Lab
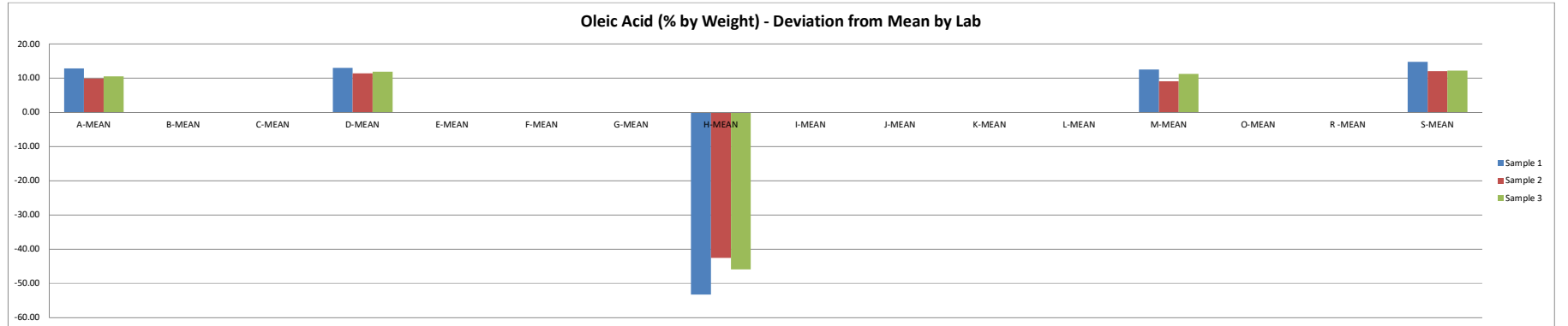
Oleic Acid (% by Weight) (% by Weight) Z - score

	A	B	C	D	E	F	G	H	I	J	K	L	M	O	R	S
Sample 1	0.43			0.44				-1.79					0.42			0.50
Sample 2	0.42			0.48				-1.79					0.38			0.51
Sample 3	0.41			0.46				-1.79					0.44			0.48

Linoleic Acid (% by Weight)

	A	A-MEAN	B	B-MEAN	C	C-MEAN	D	D-MEAN	E	E-MEAN	F	F-MEAN	G	G-MEAN	H	H-MEAN	I	I-MEAN	J	J-MEAN	K	K-MEAN	L	L-MEAN	M	M-MEAN	O	O-MEAN	R	R-MEAN	S	S-MEAN	STDEV	MEAN
Sample 1	13.65	-0.18					14.25	0.42																	13.93	0.10					13.50	-0.33	0.33	13.83
Sample 2	22.74	-0.04					22.65	-0.13																	23.14	0.36					22.58	-0.20	0.25	22.78
Sample 3	21.53	0.07					21.40	-0.06																	21.43	-0.03					21.48	0.02	0.06	21.46
Mean Absolute Difference		0.10						0.20																		0.16						0.18		
Mean of Difference		-0.05						0.08																		0.14						-0.17		

Linoleic Acid (% by Weight) - Deviation from Mean by Lab
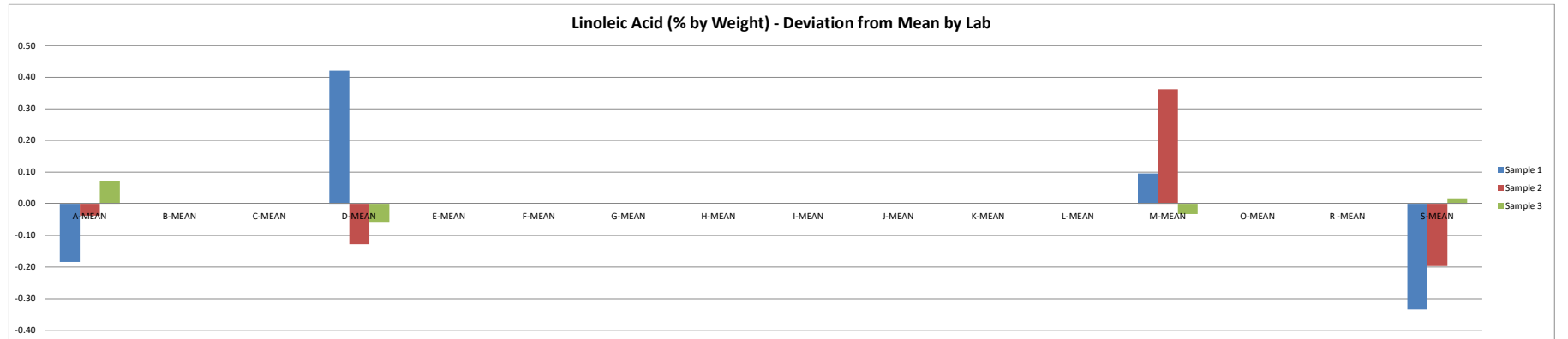
Linoleic Acid (% by Weight) Z - score

	A	B	C	D	E	F	G	H	I	J	K	L	M	O	R	S
Sample 1	-0.55			1.27									0.29			-1.00
Sample 2	-0.15			-0.51									1.45			-0.79
Sample 3	1.26			-1.00									-0.57			0.30

	A	A-MEAN	B	B-MEAN	C	C-MEAN	D	D-MEAN	E	E-MEAN	F	F-MEAN	G	G-MEAN	H	H-MEAN	I	I-MEAN	J	J-MEAN	K	K-MEAN	L	L-MEAN	M	M-MEAN	O	O-MEAN	R	R-MEAN	S	S-MEAN	STDEV	MEAN
																																Linolenic Acid (% by Weight)			
Sample 1	7.07	0.17					6.85	-0.04																	7.04	0.15					6.62	-0.27	0.21	6.89
Sample 2	11.06	0.24					10.15	-0.67																	11.33	0.51					10.73	-0.09	0.51	10.82
Sample 3	8.79	0.33					8.05	-0.41																	8.57	0.11					8.44	-0.02	0.31	8.46
Mean Absolute Difference		0.25						0.37																		0.26						0.13		
Mean of Difference		0.25						-0.37																		0.26						-0.13		

Linolenic Acid (% by Weight) - Deaviation from Mean by Lab
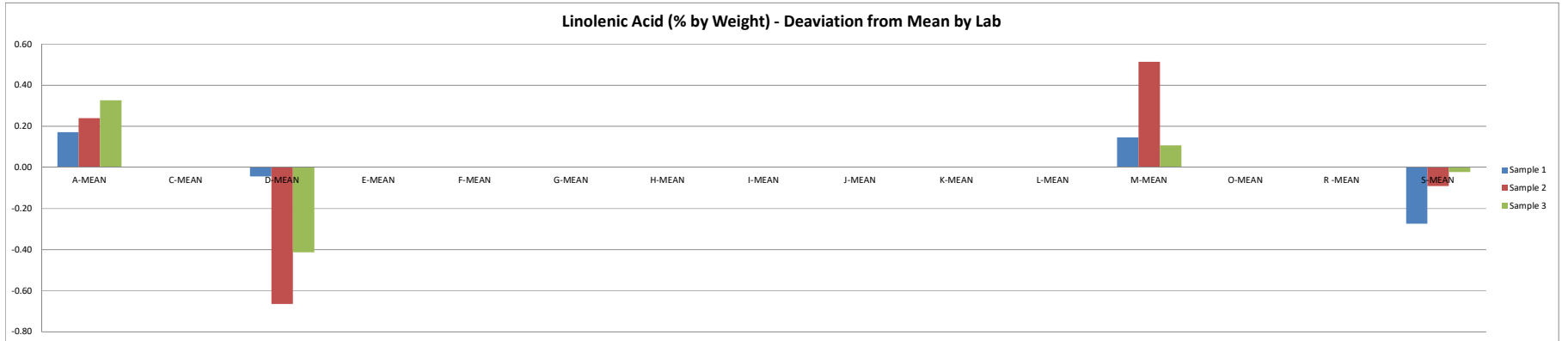
	A	B	C	D	E	F	G	H	I	J	K	L	M	O	R	S
										Linolenic Acid (% by Weight) Z - score						
Sample 1	0.83			-0.21									0.71			-1.33
Sample 2	0.47			-1.31									1.01			-0.18
Sample 3	1.05			-1.33									0.35			-0.07

Free Fatty Acid (% by Weight)

	A	A-MEAN	B	B-MEAN	C	C-MEAN	D	D-MEAN	E	E-MEAN	F	F-MEAN	G	G-MEAN	H	H-MEAN	I	I-MEAN	J	J-MEAN	K	K-MEAN	L	L-MEAN	M	M-MEAN	O	O-MEAN	R	R-MEAN	S	S-MEAN	STDEV	MEAN
Sample 1	0.04	-0.12					0.35	0.19												0.19	0.04					0.14	-0.01	0.08	-0.07			0.12	-0.04	0.11	0.15
Sample 2	0.10	-0.11					0.37	0.16												0.22	0.00					0.26	0.05	0.19	-0.03			0.14	-0.08	0.10	0.21
Sample 3	0.04	-0.08					0.25	0.13												0.19	0.07					0.14	0.02	0.07	-0.06			0.05	-0.08	0.09	0.12
Mean Absolute Difference		0.10						0.16													0.04						0.03		0.05				0.06		
Mean of Difference		-0.10						0.16													0.04						0.02		-0.05				-0.06		

Free Fatty Acid (% by Weight) - Deaviation from Mean by Lab
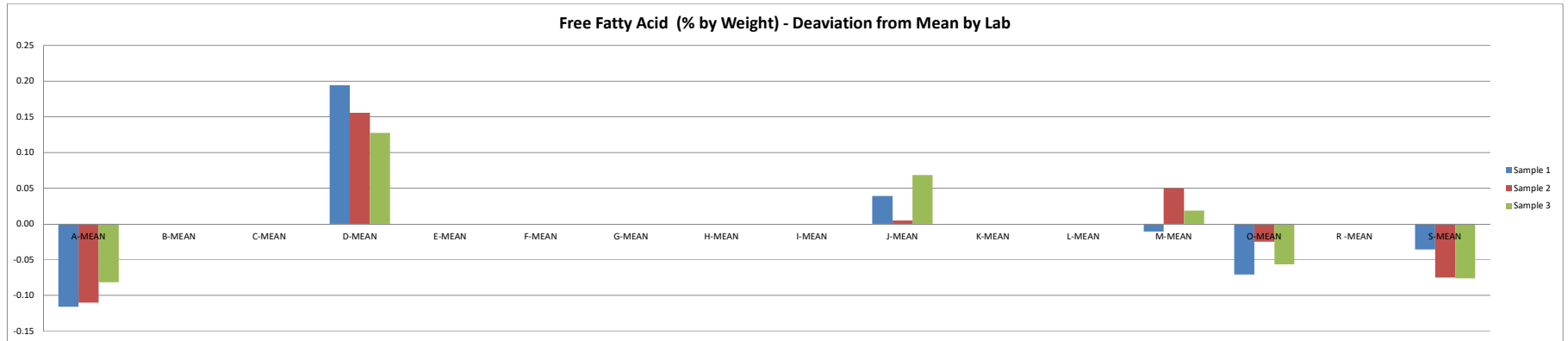
Free Fatty Acid (% by Weight) Z - score

	A	B	C	D	E	F	G	H	I	J	K	L	M	O	R	S
Sample 1	-1.06			1.79						0.36			-0.10	-0.65		-0.33
Sample 2	-1.16			1.64						0.05			0.52	-0.26		-0.79
Sample 3	-0.95			1.48						0.80			0.22	-0.66		-0.89

AOF Test Check Program 2018 - Round 4

Oil % (NIR) - Oil % (Mean Reference)

	A	B	C	D	E	F	G	H	I	J	K	L	M	O	R	S
Sample 1		0.67	0.49	0.59	0.89		1.36	0.74	1.46	0.69	0.54	0.25	1.14	0.63	1.08	0.59
Sample 2		0.34	-0.56	-0.11	0.19		0.73	-0.06	-0.15	0.14	-0.41	0.41	-0.26	0.09	0.70	-0.66
Sample 3		0.07	0.10	0.40	-0.50		0.14	0.25	-0.71	0.70	0.20	-0.60	0.90	0.27	0.45	-0.25
Average		0.36	0.01	0.29	0.19		0.74	0.31	0.20	0.51	0.11	0.02	0.59	0.33	0.75	-0.11

Moisture % (NIR) - Moisture % (Mean Reference)

	A	B	C	D	E	F	G	H	I	J	K	L	M	O	R	S
Sample 1		-0.69	-0.63	-0.58	0.37		-0.78		0.24	-0.13	-0.58	0.58	-1.18	-0.70	-0.63	-0.43
Sample 2		-0.50	-0.53	-0.53	0.27		-0.71		0.18	-0.08	-0.43	0.71	-1.23	-0.61	-0.70	-0.48
Sample 3		-0.57	-0.44	-0.44	0.21		-0.89		0.37	-0.09	-0.54		-1.29	-0.71	-0.69	-0.34
Average		-0.58	-0.53	-0.51	0.29		-0.79		0.27	-0.10	-0.51		-1.23	-0.67	-0.67	-0.41

Collective 2018 Oil

Mean Difference (Oil NIR % - Oil Reference %)

	A	B	C	D	E	F	G	H	I	J	K	L	M	O	R	S
Round 1			-0.64	-0.72	0.36		-0.25	-0.59	-2.42	-0.67	-0.39	-2.18	0.06	-0.59	-0.32	-0.61
Round 2		-0.58	-0.45	-0.48	0.17		-0.04	-0.13	0.02	0.22	-0.30	-2.29		-0.26	-0.13	-0.35
Round 3	0.00	0.08	-0.11	0.39			0.49	-0.02	0.04	1.02	-0.19	-0.19	0.44	0.08	0.44	0.04
Round 4	0.36	0.01	0.29	0.19			0.74	0.31	0.20	0.51	0.11	0.02	0.59	0.33	0.75	-0.11
Round 5																
Round 6																

Mean Difference (Oil NIR % Oil Solvent %)
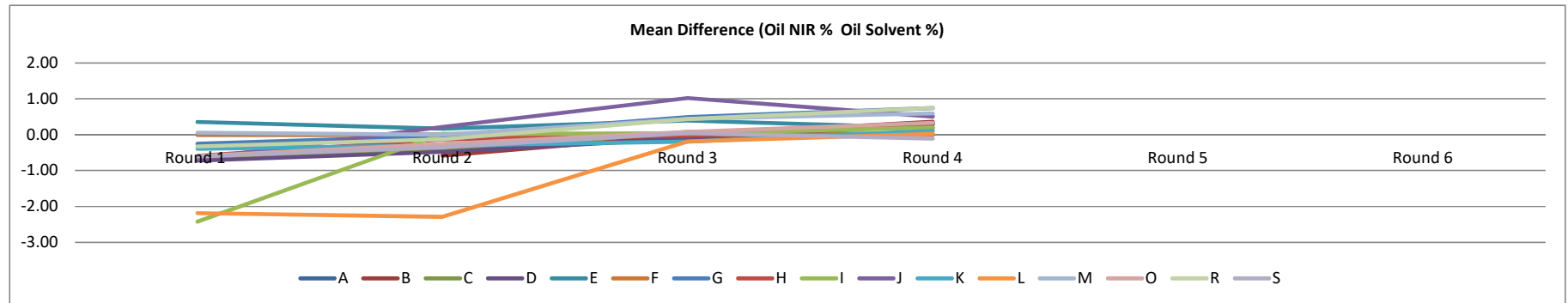
Collective 2018 Moisture

	A	B	C	D	E	F	G	H	I	J	K	L	M	O	R	S
Mean Difference (Moisutre NIR % - Moisture Reference %)																
Round 1			-0.51	-0.38	0.14		-0.43	-0.43	0.11	0.21	-0.51	0.10	-0.99	-0.44	-0.56	-0.29
Round 2		-0.48	-0.21	-0.31	0.21		-0.33		0.14	-0.04	-0.36	0.32		-0.50	-0.52	-0.26
Round 3		-0.44	-0.31	-0.45	0.12		-0.62	-0.60	0.41	-0.10	-0.58	0.89	-1.30	-0.62	-0.66	-0.36
Round 4		-0.58	-0.53	-0.51	0.29		-0.79		0.27	-0.10	-0.51		-1.23	-0.67	-0.67	-0.41
Round 5																
Round 6																

Mean Difference (Moisutre NIR % - Moisture Oven %)
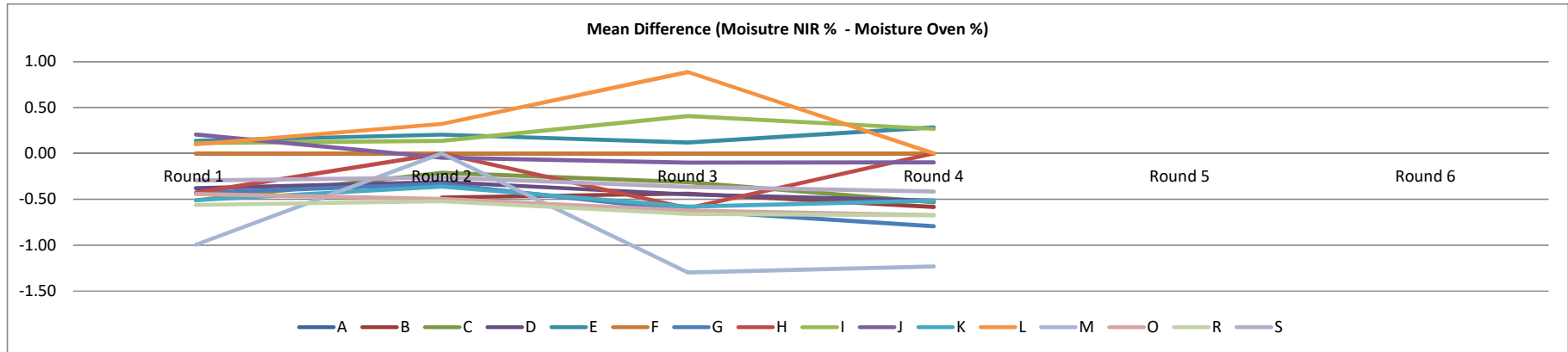
Appendix 1:

$$z = (x - X) / \hat{\sigma} \qquad ..(19)$$

where $\hat{\sigma}$ is the standard deviation for proficiency assessment.

NOTE   ISO Guide 43 uses the symbol s for the standard deviation in the definition of the z-score. This is appropriate when this quantity is derived as the standard deviation of a number of results, but not in other cases (for example, when it is calculated from the results of a precision experiment, or by reference to a generalised linear model).

Interpretation of z-scores. When a participant reports a result that gives rise to a z-score above 3,0 or below -3,0 then the result shall be considered to give an "action signal". Likewise, a z-score above 2,0 or below -2,0 shall be considered to give a "warning signal". A single "action signal", or "warning signals" in two successive rounds, shall be taken as evidence that an anomaly has occurred that requires investigation.

Reference : ISO 13528 statistical methods for use in proficiency testing by interlaboratory comparisons

Appendix 2: Raw Data

Reporting Date	30/07/2018		Lab	A								
				Sample 1			Sample 2			Sample 3		
Parameter	Unit	Method	Result A	Result B	Average	Result A	Result B	Average	Result A	Result B	Average	
Test Weight	kg/hL		68.50	68.50	68.50	67.50	67.50	67.50	68.25	68.25	68.25	
Impurities	% by weight	AOF4-1.3	0.57	0.60	0.59	1.48	1.49	1.49	0.83	0.82	0.83	
Oil NIR (Clean Seed)	% by weight											
Oil Solvent (Clean Seed)	% by weight	FOSFA	47.03	46.92	46.98	47.32	47.16	47.24	43.86	43.94	43.90	
Oil SFE Extraction	% by weight											
Moisture Oven	% by weight		5.12	5.09	5.11	5.00	5.02	5.01	5.17	5.21	5.19	
Moisture NIR	% by weight											
Oleic Acid	% by weight	Methanolic KOH	70.74	70.79	70.77	57.34	57.41	57.38	61.22	61.22	61.22	
Linoleic Acid	% by weight	Methanolic KOH	13.67	13.62	13.65	22.77	22.71	22.74	21.52	21.54	21.53	
Linolenic Acid	% by weight	Methanolic KOH	7.07	7.06	7.07	11.06	11.05	11.06	8.80	8.78	8.79	
Free Fatty Acid	% by weight	AOCS Ac5-41	0.04	0.03	0.04	0.10	0.10	0.10	0.04	0.04	0.04	

Reporting Date	27/06/2018		Lab	B								
				Sample 1			Sample 2			Sample 3		
Parameter	Unit	Method	Result A	Result B	Average	Result A	Result B	Average	Result A	Result B	Average	
Test Weight	kg/hL	Balance	66.11	66.91	66.51	66.00	66.38	66.19	67.25	67.63	67.44	
Impurities	% by weight	Agtator	1.00	0.80	0.90	2.60	3.00	2.80	1.10	1.10	1.10	
Oil NIR (Clean Seed)	% by weight	NIR	47.52	47.44	47.48	46.42	46.99	46.71	43.95	43.79	43.87	
Oil Solvent (Clean Seed)	% by weight											
Oil SFE Extraction	% by weight											
Moisture Oven	% by weight	Oven	5.48	5.45	5.47	5.52	5.48	5.50	5.54	5.52	5.53	
Moisture NIR	% by weight	NIR	4.72	4.57	4.65	4.82	4.94	4.88	4.71	4.83	4.77	
Oleic Acid	% by weight											
Linoleic Acid	% by weight											
Linolenic Acid	% by weight											
Free Fatty Acid	% by weight											

Reporting Date	5/07/2018		Lab	C								
				Sample 1			Sample 2			Sample 3		
Parameter	Unit	Method	Result A	Result B	Average	Result A	Result B	Average	Result A	Result B	Average	
Test Weight	kg/hL	weigh	69.15	69.18	69.17	67.56	67.46	67.51	69.02	69.41	69.22	
Impurities	% by weight	sieve & weigh	0.52	0.53	0.53	2.58	2.54	2.56	0.95	0.86	0.91	
Oil NIR (Clean Seed)	% by weight	NIR	47.20	47.40	47.30	45.70	45.90	45.80	43.90	43.90	43.90	
Oil Solvent (Clean Seed)	% by weight											
Oil SFE Extraction	% by weight											
Moisture Oven	% by weight		5.44	4.95	5.20	5.29	5.14	5.22	4.89	4.92	4.91	
Moisture NIR	% by weight	NIR	4.8	4.6	4.7	4.9	4.8	4.9	4.9	4.9	4.9	
Oleic Acid	% by weight											
Linoleic Acid	% by weight											
Linolenic Acid	% by weight											
Free Fatty Acid	% by weight											

Reporting Date	26/07/2018		Lab	D								
				Sample 1			Sample 2			Sample 3		
Parameter	Unit	Method	Result A	Result B	Average	Result A	Result B	Average	Result A	Result B	Average	
Test Weight	kg/hL		68.0	66.0	67.0	67.5	66.5	67.0	68.5	69.0	68.8	
Impurities	% by weight		0.7	1.2	1.0	1.5	1.9	1.7	0.9	0.9	0.9	
Oil NIR (Clean Seed)	% by weight		47.3	47.5	47.4	46.2	46.3	46.3	44.3	44.1	44.2	
Oil Solvent (Clean Seed)	% by weight		46.00	47.30	46.7	43.90	44.30	44.1	43.00	43.90	43.5	
Oil SFE Extraction	% by weight											
Moisture Oven	% by weight		5.04	4.96	5.0	5.14	5.13	5.1	5.14	5.15	5.1	
Moisture NIR	% by weight		4.8	4.7	4.8	4.8	4.9	4.9	4.9	4.9	4.9	
Oleic Acid	% by weight		70.90	70.90	70.9	58.90	58.80	58.9	62.60	62.60	62.6	
Linoleic Acid	% by weight		14.20	14.30	14.3	22.60	22.70	22.7	21.40	21.40	21.4	
Linolenic Acid	% by weight		6.8	6.9	6.9	10.1	10.2	10.2	8.0	8.1	8.1	
Free Fatty Acid	% by weight		0.313	0.378	0.346	0.390	0.342	0.366	0.237	0.261	0.249	

Reporting Date	1/07/2018			Lab	E								
					Sample 1			Sample 2			Sample 3		
Parameter	Unit	Method		Result A	Result B	Average	Result A	Result B	Average	Result A	Result B	Average	
Test Weight	kg/hL			68.43	68.70	68.57	67.03	67.19	67.11	68.69	68.61	68.65	
Impurities	% by weight			0.64	0.65	0.65	2.35	2.36	2.36	0.96	1.02	0.99	
Oil NIR (Clean Seed)	% by weight	Infratec 1241		47.50	47.90	47.70	46.40	46.70	46.55	43.10	43.50	43.30	
Oil Solvent (Clean Seed)	% by weight	ISO 659		46.98	47.03	47.00	46.79	46.86	46.83	44.20	43.93	44.06	
Oil SFE Extraction	% by weight												
Moisture Oven	% by weight			5.5	5.5	5.5	5.6	5.6	5.6	5.5	5.5	5.5	
Moisture NIR	% by weight			5.6	5.8	5.7	5.6	5.7	5.7	5.5	5.6	5.6	
Oleic Acid	% by weight	Infratec 1241											
Linoleic Acid	% by weight												
Linolenic Acid	% by weight												
Free Fatty Acid	% by weight												

Reporting Date				Lab	F								
					Sample 1			Sample 2			Sample 3		
Parameter	Unit	Method		Result A	Result B	Average	Result A	Result B	Average	Result A	Result B	Average	
Test Weight	kg/hL												
Impurities	% by weight												
Oil NIR (Clean Seed)	% by weight												
Oil Solvent (Clean Seed)	% by weight	AOF 4-1.24a											
Oil SFE Extraction	% by weight												
Moisture Oven	% by weight	AOF 4-1.5											
Moisture NIR	% by weight												
Oleic Acid	% by weight	AOF 4-1.21											
Linoleic Acid	% by weight	AOF 4-1.21											
Linolenic Acid	% by weight	AOF 4-1.21											
Free Fatty Acid	% by weight	AOF 4-2.19											

Reporting Date	31/07/2018			Lab	G								
					Sample 1			Sample 2			Sample 3		
Parameter	Unit	Method		Result A	Result B	Average	Result A	Result B	Average	Result A	Result B	Average	
Test Weight	kg/hL			67.54	67.54	67.54	65.35	66.23	65.79	67.59	67.79	67.69	
Impurities	% by weight			0.67	0.67	0.67	2.14	2.00	2.07	0.97	0.92	0.95	
Oil NIR (Clean Seed)	% by weight	NIR		48.13	48.21	48.17	47.01	47.17	47.09	43.90	43.98	43.94	
Oil Solvent (Clean Seed)	% by weight												
Oil SFE Extraction	% by weight												
Moisture Oven	% by weight			5.23	5.20	5.22	5.31	5.32	5.32	5.14	5.13	5.14	
Moisture NIR	% by weight	NIR		4.50	4.60	4.55	4.63	4.71	4.67	4.50	4.39	4.45	
Oleic Acid	% by weight												
Linoleic Acid	% by weight												
Linolenic Acid	% by weight												
Free Fatty Acid	% by weight												

Reporting Date	4/07/2018			Lab	H								
					Sample 1			Sample 2			Sample 3		
Parameter	Unit	Method		Result A	Result B	Average	Result A	Result B	Average	Result A	Result B	Average	
Test Weight	kg/hL			67.0	67.0	67.00	66.6	66.6	66.60	67.4	67.6	67.50	
Impurities	% by weight			0.7	0.6	0.65	1.5	1.6	1.55	0.8	0.8	0.80	
Oil NIR (Clean Seed)	% by weight			47.6	47.5	47.55	46.3	46.3	46.30	44.1	44.0	44.05	
Oil Solvent (Clean Seed)	% by weight												
Oil SFE Extraction	% by weight												
Moisture Oven	% by weight												
Moisture NIR	% by weight												
Oleic Acid	% by weight			4.60	4.60	4.60	4.90	4.90	4.90	4.80	4.80	4.80	
Linoleic Acid	% by weight												
Linolenic Acid	% by weight												
Free Fatty Acid	% by weight												

Reporting Date	11/07/2018			Lab	I								
					Sample 1			Sample 2			Sample 3		
Parameter	Unit	Method		Result A	Result B	Average	Result A	Result B	Average	Result A	Result B	Average
Test Weight	kg/hL											
Impurities	% by weight											
Oil NIR (Clean Seed)	% by weight	Near-Infra Red (NIR)		48.20	48.34	48.27	46.14	46.28	46.21	43.09	43.09	43.09
Oil Solvent (Clean Seed)	% by weight											
Oil SFE Extraction	% by weight											
Moisture Oven	% by weight	AOF 4 - 1.5		5.39	5.34	5.37	5.34	5.38	5.36	5.49	5.48	5.49
Moisture NIR	% by weight	Near-Infra Red (NIR)		5.60	5.55	5.58	5.54	5.58	5.56	5.70	5.72	5.71
Oleic Acid	% by weight											
Linoleic Acid	% by weight											
Linolenic Acid	% by weight											
Free Fatty Acid	% by weight											

Reporting Date	11/07/2018			Lab	J								
					Sample 1			Sample 2			Sample 3		
Parameter	Unit	Method		Result A	Result B	Average	Result A	Result B	Average	Result A	Result B	Average
Test Weight	kg/hL	Chondrometer		65.80	65.80	65.8	65.70	66.00	65.9	67.70	67.70	67.7
Impurities	% by weight	AOF Quality Standard		0.80	0.80	0.8	0.90	0.90	0.9	0.60	0.60	0.6
Oil NIR (Clean Seed)	% by weight	NIR		47.50	47.50	47.5	46.50	46.50	46.5	44.50	44.50	44.5
Oil Solvent (Clean Seed)	% by weight	AOCS AM 2-93		47.50	47.50	47.5	46.80	46.80	46.8	44.60	44.70	44.7
Oil SFE Extraction	% by weight											
Moisture Oven	% by weight	AOAC 925.10		5.20	5.30	5.3	5.40	5.40	5.4	5.40	5.40	5.4
Moisture NIR	% by weight	NIR		5.20	5.20	5.2	5.30	5.30	5.3	5.30	5.20	5.3
Oleic Acid	% by weight											
Linoleic Acid	% by weight											
Linolenic Acid	% by weight											
Free Fatty Acid	% by weight	AOCS Ca 5a-40		0.19	0.19	0.19	0.20	0.23	0.22	0.19	0.19	0.19

Reporting Date	9/07/2018			Lab	K								
					Sample 1			Sample 2			Sample 3		
Parameter	Unit	Method		Result A	Result B	Average	Result A	Result B	Average	Result A	Result B	Average
Test Weight	kg/hL			67.80	68.00	67.9	66.20	66.60	66.4	68.20	69.00	68.6
Impurities	% by weight	AOF 2a-86		0.81	0.55	0.68	2.06	1.61	1.84	0.74	1.02	0.9
Oil NIR (Clean Seed)	% by weight	NIR		47.30	47.40	47.4	46.00	45.90	46.0	44.00	44.00	44.0
Oil Solvent (Clean Seed)	% by weight											
Oil SFE Extraction	% by weight											
Moisture Oven	% by weight											
Moisture NIR	% by weight	NIR		4.80	4.70	4.8	5.00	4.90	5.0	4.80	4.80	4.8
Oleic Acid	% by weight											
Linoleic Acid	% by weight											
Linolenic Acid	% by weight											
Free Fatty Acid	% by weight											

Reporting Date	4/07/2018			Lab	L								
					Sample 1			Sample 2			Sample 3		
Parameter	Unit	Method		Result A	Result B	Average	Result A	Result B	Average	Result A	Result B	Average
Test Weight	kg/hL	Chondrometer		67.51	67.29	67.40	66.23	66.25	66.24	67.42	67.42	67.42
Impurities	% by weight	AOF 4 – 1.3		0.75	0.82	0.79	2.80	2.96	2.88	1.18	1.39	1.29
Oil NIR (Clean Seed)	% by weight	Near-Infra Red (NIR)		47.16	46.97	47.07	46.77	46.77	46.77	43.24	43.16	43.20
Oil Solvent (Clean Seed)	% by weight	N/A										
Oil SFE Extraction	% by weight	N/A										
Moisture Oven	% by weight	AOF 4 - 1.5		5.47	5.43	5.45	5.55	5.51	5.53			
Moisture NIR	% by weight	Near-Infra Red (NIR)		5.82	6.00	5.91	6.03	6.14	6.09			
Oleic Acid	% by weight	N/A										
Linoleic Acid	% by weight	N/A										
Linolenic Acid	% by weight	N/A										
Free Fatty Acid	% by weight	N/A										

AOF Test Check Program 2018 - Round 4

Reporting Date	31/07/2018		Lab	M							
				Sample 1			Sample 2			Sample 3	
Parameter	Unit	Method	Result A	Result B	Average	Result A	Result B	Average	Result A	Result B	Average
Test Weight	kg/hL		67.30	67.30	67.30	66.30	66.20	66.25	67.50	67.40	67.45
Impurities	% by weight		0.56	0.59	0.58	1.35	1.49	1.42	0.93	1.02	0.98
Oil NIR (Clean Seed)	% by weight		47.70	48.20	47.95	46.10	46.10	46.10	44.70	44.70	44.70
Oil Solvent (Clean Seed)	% by weight		46.18	46.76	46.47	45.94	46.07	46.01	43.69	43.67	43.68
Oil SFE Extraction	% by weight										
Moisture Oven	% by weight		5.39	5.37	5.38	5.52	5.48	5.50	5.40	5.40	5.40
Moisture NIR	% by weight		4.20	4.10	4.15	4.10	4.20	4.15	4.00	4.10	4.05
Oleic Acid	% by weight		70.27	70.61	70.44	56.51	56.48	56.50	62.02	61.90	61.96
Linoleic Acid	% by weight		13.90	13.95	13.93	23.13	23.15	23.14	21.49	21.36	21.43
Linolenic Acid	% by weight		7.04	7.04	7.04	11.37	11.29	11.33	8.38	8.76	8.57
Free Fatty Acid	% by weight		0.14	0.14	0.14	0.25	0.27	0.26	0.14	0.14	0.14

Reporting Date	18/07/2018		Lab	O							
				Sample 1			Sample 2			Sample 3	
Parameter	Unit	Method	Result A	Result B	Average	Result A	Result B	Average	Result A	Result B	Average
Test Weight	kg/hL		67.48	67.46	67.47	66.94	66.94	66.94	67.68	67.62	67.65
Impurities	% by weight	AOF 4-1.2	0.80	0.80	0.80	3.10	3.10	3.10	1.10	1.10	1.10
Oil NIR (Clean Seed)	% by weight	NIR	47.46	47.43	47.45	46.47	46.44	46.46	44.08	44.06	44.07
Oil Solvent (Clean Seed)	% by weight	AOF 4-1.5 FOSFA	47.15	47.00	47.08	47.31	47.09	47.20	44.11	43.91	44.01
Oil SFE Extraction	% by weight										
Moisture Oven	% by weight	AOF-1.5	5.46	5.46	5.46	5.41	5.39	5.40	5.45	5.38	5.42
Moisture NIR	% by weight	NIR	4.63	4.63	4.63	4.77	4.77	4.77	4.63	4.63	4.63
Oleic Acid	% by weight										
Linoleic Acid	% by weight										
Linolenic Acid	% by weight										
Free Fatty Acid	% by weight	AOF 4-2.19	0.08	0.08	0.08	0.19	0.18	0.19	0.07	0.06	0.07

Reporting Date	26/07/2018		Lab	R							
				Sample 1			Sample 2			Sample 3	
Parameter	Unit	Method	Result A	Result B	Average	Result A	Result B	Average	Result A	Result B	Average
Test Weight	kg/hL	½ litre measure & electronic balance	67.66	67.44	67.55	65.82	65.96	65.89	67.58	67.72	67.65
Impurities	% by weight	Hand sieve (3.0/1.0mm), aspirate & hand pick	0.40	0.50	0.45	2.00	1.90	1.95	0.80	0.70	0.75
Oil NIR (Clean Seed)	% by weight	Infratec 1241 Serial No: 91724323	48.18	47.61	47.90	47.16	46.97	47.07	44.01	44.50	44.26
Oil Solvent (Clean Seed)	% by weight										
Oil SFE Extraction	% by weight										
Moisture Oven	% by weight	10g @ 130 °C for 1hr in duplicate (AOF method)	5.46	5.45	5.46	5.49	5.49	5.49	5.48	5.48	5.48
Moisture NIR	% by weight	Infratec 1241 Serial No: 91724323	4.58	4.82	4.70	4.74	4.62	4.68	4.53	4.76	4.65
Oleic Acid	% by weight										
Linoleic Acid	% by weight										
Linolenic Acid	% by weight										
Free Fatty Acid	% by weight										

Reporting Date	31/07/2018		Lab	S							
				Sample 1			Sample 2			Sample 3	
Parameter	Unit	Method	Result A	Result B	Average	Result A	Result B	Average	Result A	Result B	Average
Test Weight	kg/hL	TP 016	66.60	66.80	66.70	66.20	66.30	66.25	67.20	67.40	67.30
Impurities	% by weight	TP 052	0.58	0.57	0.58	0.96	0.95	0.96	0.39	0.38	0.39
Oil NIR (Clean Seed)	% by weight	TP 054	47.40	47.40	47.40	45.60	45.80	45.70	43.60	43.50	43.55
Oil Solvent (Clean Seed)	% by weight	TP 053	46.00	46.00	46.00	46.40	46.30	46.35	43.00	42.70	42.85
Oil SFE Extraction	% by weight										
Moisture Oven	% by weight	TP 022	5.50	5.40	5.45	5.50	5.40	5.45	5.50	5.40	5.45
Moisture NIR	% by weight	TP 054	4.90	4.90	4.90	4.90	4.90	4.90	5.00	5.00	5.00
Oleic Acid	% by weight	TP 047	72.71	72.65	72.68	59.38	59.65	59.52	63.26	62.55	62.91
Linoleic Acid	% by weight	TP 047	13.48	13.51	13.50	22.57	22.59	22.58	21.35	21.60	21.48
Linolenic Acid	% by weight	TP 047	6.61	6.63	6.62	10.72	10.73	10.73	8.40	8.48	8.44
Free Fatty Acid	% by weight	TP 046	0.11	0.12	0.12	0.10	0.17	0.14	0.04	0.05	0.05