Certificate of Analysis
Work Order : SD180106
[Report File No.: 0000033485]

Date: January 02, 2019

To: **JASON JESSUP**
URSA MAJOR MINERALS INCORPORATED
45 OAK ST
DOWLING ON P0M 1R0

P.O. No.: SHAKESPEARE / TEST: 48 Samples
Project No.: SHAKESPEARE
Samples: 48
Received: Nov 13, 2018
Pages: Page 1 to 11
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
48	G_LOG02	Pre-preparation processing, sorting, logging, boxing
48	G_WGH79	Weighing of samples and reporting of weights
46	G_PRP89	Weigh, dry,(up to3.0 kg) crush to 75% passing 2 mm, split 250 g, pulverize to
48	GE_FAI313	@Au, Pt, Pd, FAS, ICP-AES, 30g - 5ml (Clean Pots only)
48	GE_IMS90A	Sodium Peroxide fusion/ICP-MS package(34 elements)
48	G_SHIP	Shipping

Comments:

Sample prep performed in Sudbury.
Results in 2 decimal places for S in GE_IMS90A are informational only.

Certified By : _____
Gerald Chik
Operations Manager/Chief Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	Au@	Pt@	Pd@	Ag	Al	As	Ba
Method	G_WGH79	GE_FAI313	GE_FAI313	GE_FAI313	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	0.01	1	10	1	1	0.01	3	10
Units	kg	ppb	ppb	ppb	ppm	%	ppm	ppm
S00354201	1.549	6	10	15	<1	8.41	4	290
S00354202	2.373	69	160	172	<1	7.53	59	330
S00354203	1.844	74	230	195	<1	7.51	72	290
S00354204	3.050	22	30	32	<1	7.99	33	240
S00354205	1.776	90	220	359	1	7.68	231	330
S00354206	0.813	<1	<10	1	<1	0.08	<3	20
S00354207	1.304	31	210	151	<1	8.45	95	430
S00354208	1.097	5	40	38	<1	8.48	42	470
S00354209	0.590	4	30	27	<1	3.68	45	190
S00354210	0.120	<1	<10	2	<1	8.00	<3	600
S00354211	2.476	9	120	89	<1	8.07	39	490
S00354212	2.271	6	50	53	<1	8.21	7	350
S00354213	0.968	8	60	56	<1	8.00	4	260
S00354214	0.932	12	90	83	<1	8.31	6	280
S00354215	1.982	43	340	261	<1	7.29	30	170
S00354216	0.842	<1	<10	2	<1	0.07	<3	20
S00354217	1.294	33	170	186	<1	8.20	49	260
S00354218	0.819	42	290	258	<1	7.68	61	230
S00354219	1.328	44	190	180	<1	7.98	36	260
S00354220	0.103	74	470	594	1	2.83	206	80
S00354221	1.038	55	310	246	2	8.00	42	250
S00354222	0.825	138	300	347	5	6.76	91	170
S00354223	0.772	74	280	214	<1	8.28	82	270
S00354224	2.623	68	670	326	2	6.51	84	200
S00354225	0.828	<1	<10	2	<1	0.08	<3	20
S00354226	2.461	216	240	305	<1	6.84	82	210
S00354227	2.646	159	310	201	<1	6.76	75	190
S00354228	2.481	172	180	218	1	6.98	83	230
S00354229	0.570	318	230	552	5	5.66	108	120
S00354230	0.351	128	170	171	1	7.20	37	170
S00354231	0.863	<1	<10	<1	<1	0.08	<3	20
S00354232	0.922	104	140	180	<1	7.65	45	210
S00354233	1.487	86	170	128	<1	7.94	30	110
S00354234	2.374	42	80	55	<1	7.54	8	190
S00354235	2.526	18	20	27	<1	8.43	13	310
S00354236	2.519	1	20	7	<1	8.10	7	250
S00354237	2.625	<1	<10	4	<1	8.40	4	280
S00354238	0.968	<1	<10	1	<1	5.62	<3	180
S00354239	1.933	<1	<10	2	<1	7.44	<3	250
*Dup S00354239	<0.010	<1	<10	1	<1	7.16	<3	250

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Element	WtKg	Au@	Pt@	Pd@	Ag	Al	As	Ba
Method	G_WGH79	GE_FAI313	GE_FAI313	GE_FAI313	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	0.01	1	10	1	1	0.01	3	10
Units	kg	ppb	ppb	ppb	ppm	%	ppm	ppm
S00354240	0.848	<1	<10	1	<1	0.08	<3	20
S00354241	1.701	5	20	24	<1	4.58	<3	170
S00354242	0.663	4	30	28	<1	4.83	<3	230
S00354243	2.336	<1	<10	1	<1	2.74	<3	50
S00354244	1.947	<1	<10	3	<1	7.88	6	210
S00354245	1.734	<1	10	8	<1	6.78	10	190
S00354246	1.770	1	10	11	<1	7.09	4	160
S00354247	2.089	<1	<10	6	<1	7.67	7	180
S00354248	1.047	8	20	37	<1	7.65	14	220
*Rep S00354222					5	6.75	79	170
*Std OREAS680					10	6.86	116	690
*Std OREAS70B					<1	3.71	140	190
*Blk BLANK					<1	<0.01	<3	<10
*Rep S00354213		9	60	59				
*Rep S00354246		<1	20	11				
*Std OREAS680		161	420	230				
*Std PGMS25		533	420	1930				
*Blk BLANK		<1	<10	<1				

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Element	Be	Bi	Ca	Cd	Co	Cr	Cs	Cu
Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	1	0.1	0.1	0.2	0.5	5	0.1	2
Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
S00354201	1	0.3	4.3	<0.2	55.6	208	5.0	151
S00354202	1	2.4	3.6	<0.2	202	493	2.9	1100
S00354203	1	2.5	3.4	<0.2	256	538	2.5	1200
S00354204	1	0.3	4.4	<0.2	85.1	255	1.7	925
S00354205	1	2.1	3.4	<0.2	354	632	1.1	2140
S00354206	<1	<0.1	>25.0	<0.2	1.6	12	<0.1	4
S00354207	1	1.1	3.2	<0.2	196	499	1.0	1070
S00354208	1	0.4	3.5	<0.2	69.3	608	1.2	236
S00354209	<1	0.2	4.2	<0.2	43.3	265	0.4	112
S00354210	<1	<0.1	4.4	<0.2	13.5	30	0.7	89
S00354211	1	1.1	3.2	<0.2	120	572	1.0	628
S00354212	1	0.5	3.5	<0.2	87.7	545	1.1	411
S00354213	1	0.5	3.6	<0.2	89.7	522	1.0	463
S00354214	1	0.7	3.6	<0.2	117	540	1.0	649
S00354215	1	3.3	4.1	0.3	347	470	0.8	2390
S00354216	<1	<0.1	>25.0	<0.2	1.8	14	<0.1	5
S00354217	1	2.2	3.9	<0.2	205	528	1.7	1810
S00354218	1	3.5	3.6	0.3	299	525	1.6	2630
S00354219	1	2.2	3.2	<0.2	179	509	1.6	1420
S00354220	<1	0.1	3.4	0.4	195	2980	2.1	2860
S00354221	1	3.7	3.6	0.4	261	532	1.5	6010
S00354222	<1	7.4	2.8	0.7	420	563	1.3	17700
S00354223	1	3.1	3.6	<0.2	223	586	1.9	1740
S00354224	1	6.3	3.6	0.2	454	528	2.5	3510
S00354225	<1	<0.1	>25.0	<0.2	2.0	11	<0.1	5
S00354226	1	5.9	3.8	<0.2	236	455	3.7	2060
S00354227	1	7.3	4.0	0.3	198	364	4.4	2250
S00354228	1	8.3	4.1	0.3	217	321	5.6	2350
S00354229	<1	23.9	3.6	1.2	521	183	2.4	13000
S00354230	1	7.1	4.2	0.3	187	219	3.6	2150
S00354231	<1	0.1	>25.0	<0.2	1.5	10	<0.1	11
S00354232	1	6.2	4.6	<0.2	129	165	4.7	906
S00354233	1	4.7	4.7	<0.2	87.8	160	2.1	532
S00354234	1	2.1	4.6	<0.2	45.9	133	4.0	248
S00354235	1	1.1	4.7	<0.2	47.1	86	5.8	345
S00354236	1	0.4	4.3	<0.2	35.5	113	3.6	123
S00354237	1	0.2	3.8	<0.2	36.7	100	5.0	79
S00354238	<1	0.1	2.5	<0.2	26.4	96	2.8	108
S00354239	<1	0.2	3.9	<0.2	37.2	168	4.6	48
*Dup S00354239	<1	0.2	3.9	<0.2	39.2	169	4.5	54

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Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	1	0.1	0.1	0.2	0.5	5	0.1	2
Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
S00354240	<1	<0.1	>25.0	<0.2	1.1	14	<0.1	3
S00354241	<1	0.4	2.6	<0.2	40.7	160	3.2	146
S00354242	<1	0.3	3.0	<0.2	73.3	272	5.1	289
S00354243	<1	<0.1	0.8	<0.2	19.6	117	0.7	131
S00354244	<1	0.1	4.7	<0.2	42.5	230	3.2	64
S00354245	<1	0.1	4.3	<0.2	59.7	267	4.1	114
S00354246	<1	0.2	4.9	<0.2	68.5	267	3.3	184
S00354247	<1	0.1	5.7	<0.2	59.1	154	3.3	118
S00354248	1	0.3	5.5	<0.2	52.3	167	2.8	300
*Rep S00354222	<1	7.3	2.9	0.7	422	577	1.3	18100
*Std OREAS680	1	1.7	5.8	8.1	308	2150	3.7	8880
*Std OREAS70B	1	0.8	3.2	0.3	76.0	1300	3.2	50
*Blk BLANK	<1	<0.1	<0.1	<0.2	<0.5	9	<0.1	<2

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Element	Fe	K	La	Li	Mg	Mn	Mo	Ni
Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	0.01	0.1	0.1	5	0.01	10	2	5
Units	%	%	ppm	ppm	%	ppm	ppm	ppm
S00354201	8.85	1.3	23.9	21	3.22	1090	3	219
S00354202	10.4	1.1	24.9	19	2.98	860	26	2180
S00354203	12.1	1.0	21.4	20	3.06	910	33	3000
S00354204	8.23	0.9	21.5	22	3.58	990	3	380
S00354205	12.3	1.0	23.5	22	3.42	770	34	3930
S00354206	0.36	<0.1	1.3	<5	3.32	130	<2	17
S00354207	8.85	1.6	22.2	23	3.39	720	23	2120
S00354208	7.38	1.5	23.9	24	3.59	820	6	586
S00354209	3.94	0.5	8.7	10	1.53	610	5	355
S00354210	4.84	1.2	12.0	8	1.67	990	6	15
S00354211	8.18	1.5	17.8	23	3.58	830	15	1070
S00354212	7.77	1.1	23.5	22	3.64	850	8	660
S00354213	7.93	0.9	23.7	21	3.70	860	11	690
S00354214	8.64	0.9	23.2	22	3.72	860	12	1010
S00354215	13.0	0.6	16.4	16	3.26	810	51	4740
S00354216	0.36	<0.1	1.4	<5	3.00	140	<2	23
S00354217	10.8	1.0	18.7	19	3.65	920	31	2490
S00354218	12.2	0.8	20.4	18	3.40	870	34	3690
S00354219	10.3	1.0	24.9	22	3.68	900	29	2130
S00354220	11.4	0.2	3.9	29	16.6	1400	<2	3990
S00354221	12.3	0.8	19.2	20	3.42	880	44	3370
S00354222	15.4	0.7	17.4	18	3.38	860	56	4300
S00354223	11.1	1.0	20.2	22	3.96	960	28	2490
S00354224	14.3	0.8	18.0	15	3.30	930	44	5230
S00354225	0.38	<0.1	1.3	<5	3.24	130	<2	18
S00354226	12.1	1.0	22.5	16	3.29	990	25	2990
S00354227	12.0	1.0	21.7	18	3.38	1060	19	2680
S00354228	12.0	1.2	21.0	18	3.08	1030	20	2780
S00354229	18.6	0.7	18.0	13	2.49	940	71	7250
S00354230	12.5	0.9	20.0	18	3.15	1140	18	2560
S00354231	0.39	<0.1	1.3	<5	3.23	140	<2	16
S00354232	10.2	1.1	22.1	18	3.04	1090	4	1680
S00354233	10.1	0.5	21.7	17	3.19	1200	2	988
S00354234	8.98	1.0	19.7	18	3.00	1150	2	401
S00354235	9.04	1.5	17.9	20	2.64	1090	<2	226
S00354236	7.57	1.1	20.4	20	2.59	1160	<2	73
S00354237	7.22	1.3	20.1	19	2.35	900	<2	52
S00354238	5.01	0.8	15.5	12	1.61	570	2	25
S00354239	7.69	1.2	16.4	19	3.01	880	<2	55
*Dup S00354239	7.63	1.2	16.0	19	2.95	890	<2	56

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Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	0.01	0.1	0.1	5	0.01	10	2	5
Units	%	%	ppm	ppm	%	ppm	ppm	ppm
S00354240	0.36	<0.1	1.3	<5	3.83	140	<2	13
S00354241	6.68	0.9	13.8	15	2.79	730	2	119
S00354242	11.0	1.3	16.1	24	4.68	1170	<2	160
S00354243	2.75	0.2	15.2	6	0.90	250	3	32
S00354244	8.24	0.9	15.9	16	3.04	1140	2	65
S00354245	10.5	0.9	17.3	22	3.96	1510	<2	94
S00354246	11.2	0.8	14.1	19	4.53	1490	<2	117
S00354247	10.7	0.9	13.5	16	3.95	1510	<2	103
S00354248	8.76	0.9	16.2	16	4.10	1290	<2	140
*Rep S00354222	16.1	0.7	18.0	19	3.44	880	59	4510
*Std OREAS680	12.3	1.1	19.2	14	3.89	1270	4	20900
*Std OREAS70B	5.85	0.5	15.0	35	15.0	1160	3	2080
*Blk BLANK	<0.01	<0.1	<0.1	<5	<0.01	<10	<2	<5

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Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	0.01	2	1	1	0.1	1	10	1
Units	%	ppm	%	ppm	%	ppm	ppm	ppm
S00354201	0.04	9	<1.00	<1	26.0	<1	180	<1
S00354202	0.04	9	1.65	<1	23.0	<1	160	3
S00354203	0.04	11	2.47	<1	23.6	<1	140	3
S00354204	0.03	9	<1.00	<1	23.3	<1	170	<1
S00354205	0.03	18	4.08	<1	21.9	<1	140	4
S00354206	0.01	<2	<1.00	<1	5.1	<1	60	<1
S00354207	0.03	15	1.52	<1	22.7	<1	90	2
S00354208	0.03	7	<1.00	<1	24.4	<1	110	<1
S00354209	0.01	4	<1.00	<1	31.9	<1	60	<1
S00354210	0.06	7	<1.00	<1	28.3	<1	500	<1
S00354211	0.03	19	<1.00	<1	23.1	<1	70	1
S00354212	0.03	10	<1.00	<1	23.7	<1	120	<1
S00354213	0.03	9	<1.00	<1	24.9	<1	140	<1
S00354214	0.03	9	<1.00	<1	24.0	<1	140	1
S00354215	0.02	10	4.62	<1	20.9	<1	160	4
S00354216	0.01	<2	<1.00	<1	3.9	<1	60	<1
S00354217	0.03	8	1.88	<1	23.6	<1	170	2
S00354218	0.03	9	3.77	<1	22.4	<1	160	4
S00354219	0.03	9	1.53	<1	23.5	<1	160	2
S00354220	0.03	5	1.52	4	18.3	<1	30	1
S00354221	0.03	8	2.54	<1	22.8	<1	160	3
S00354222	0.03	9	5.92	<1	20.1	<1	130	7
S00354223	0.03	7	1.79	<1	24.3	<1	160	3
S00354224	0.04	8	5.55	<1	21.7	<1	150	6
S00354225	0.01	<2	<1.00	<1	4.6	<1	60	<1
S00354226	0.05	7	2.37	<1	24.5	<1	150	3
S00354227	0.04	6	1.79	<1	24.9	<1	140	3
S00354228	0.04	6	1.94	<1	23.4	<1	150	3
S00354229	0.04	6	7.49	<1	20.1	<1	130	10
S00354230	0.04	5	1.98	<1	24.6	<1	140	3
S00354231	0.01	<2	<1.00	<1	4.0	<1	60	<1
S00354232	0.04	7	<1.00	<1	24.6	<1	160	2
S00354233	0.04	7	<1.00	<1	25.2	<1	170	2
S00354234	0.04	6	<1.00	<1	25.6	<1	170	<1
S00354235	0.03	7	<1.00	<1	25.5	<1	180	<1
S00354236	0.03	8	<1.00	<1	25.7	<1	180	<1
S00354237	0.03	7	<1.00	<1	25.9	<1	180	<1
S00354238	0.02	6	<1.00	<1	32.8	<1	110	<1
S00354239	0.03	6	<1.00	<1	27.9	<1	140	<1
*Dup S00354239	0.03	5	<1.00	<1	27.1	<1	140	<1

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Final : SD180106 Order: SHAKESPEARE / TEST: 48 Samples

Report File No.: 0000033485

Element	P	Pb	S	Sb	Si	Sn	Sr	Te
Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	0.01	2	1	1	0.1	1	10	1
Units	%	ppm	%	ppm	%	ppm	ppm	ppm
S00354240	0.01	<2	<1.00	<1	4.7	<1	60	<1
S00354241	0.03	4	<1.00	<1	32.6	<1	70	<1
S00354242	0.03	4	<1.00	<1	27.9	<1	30	<1
S00354243	0.02	3	<1.00	<1	>40.0	<1	40	<1
S00354244	0.03	6	<1.00	<1	26.4	<1	190	<1
S00354245	0.04	4	<1.00	<1	25.9	<1	100	<1
S00354246	0.04	5	<1.00	<1	24.5	<1	120	<1
S00354247	0.04	5	<1.00	<1	24.1	<1	160	<1
S00354248	0.04	5	<1.00	<1	25.3	<1	180	<1
*Rep S00354222	0.03	9	5.94	<1	20.5	<1	130	7
*Std OREAS680	0.12	2630	4.99	20	20.5	<1	460	<1
*Std OREAS70B	0.03	13	<1.00	<1	23.1	<1	70	<1
*Blk BLANK	<0.01	<2	<1.00	<1	0.2	<1	<10	<1

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Final : SD180106 Order: SHAKESPEARE / TEST: 48 Samples

Report File No.: 0000033485

Element	Ti	V	W	Y	Yb	Zn
Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	0.01	5	5	0.5	0.1	5
Units	%	ppm	ppm	ppm	ppm	ppm
S00354201	0.75	260	<5	18.6	2.2	113
S00354202	0.32	289	<5	15.8	1.8	90
S00354203	0.41	318	<5	17.0	2.0	92
S00354204	0.63	252	<5	14.9	1.7	105
S00354205	0.30	297	<5	14.0	1.6	90
S00354206	<0.01	<5	<5	2.2	0.1	7
S00354207	0.36	290	<5	13.6	1.6	90
S00354208	0.41	325	<5	14.8	1.6	87
S00354209	0.17	133	<5	6.2	0.9	39
S00354210	0.30	132	<5	18.5	2.4	64
S00354211	0.40	334	<5	12.7	1.6	95
S00354212	0.39	331	<5	13.9	1.7	80
S00354213	0.40	303	<5	15.1	1.7	81
S00354214	0.40	316	<5	15.1	1.7	83
S00354215	0.32	296	<5	11.3	1.4	80
S00354216	<0.01	<5	<5	2.4	<0.1	<5
S00354217	0.41	322	<5	13.4	1.5	88
S00354218	0.39	310	<5	13.8	1.7	92
S00354219	0.40	310	<5	15.8	1.9	88
S00354220	0.33	136	<5	7.8	0.8	109
S00354221	0.39	307	<5	14.4	1.8	108
S00354222	0.33	286	<5	12.6	1.5	136
S00354223	0.41	336	<5	15.3	1.8	82
S00354224	0.41	300	<5	14.9	1.9	85
S00354225	<0.01	<5	<5	2.3	0.1	<5
S00354226	0.49	305	<5	19.2	2.2	91
S00354227	0.46	299	<5	18.8	2.1	99
S00354228	0.44	302	<5	17.3	2.0	98
S00354229	0.49	240	<5	14.9	1.8	167
S00354230	0.42	281	<5	18.2	2.1	94
S00354231	0.01	<5	<5	2.6	<0.1	<5
S00354232	0.39	222	<5	18.8	2.1	91
S00354233	0.43	206	<5	19.1	2.3	91
S00354234	0.51	218	<5	16.6	2.0	86
S00354235	0.76	282	<5	14.8	1.8	91
S00354236	1.26	307	<5	13.9	1.7	90
S00354237	1.07	316	<5	13.5	1.5	78
S00354238	0.50	190	<5	9.7	1.1	49
S00354239	0.46	268	<5	12.8	1.5	73
*Dup S00354239	0.45	269	<5	12.5	1.6	73

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Final : SD180106 Order: SHAKESPEARE / TEST: 48 Samples

Report File No.: 0000033485

Element	Ti	V	W	Y	Yb	Zn
Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	0.01	5	5	0.5	0.1	5
Units	%	ppm	ppm	ppm	ppm	ppm
S00354240	<0.01	<5	<5	2.4	0.1	<5
S00354241	0.30	198	<5	10.6	1.2	62
S00354242	0.52	343	<5	15.7	2.0	114
S00354243	0.11	54	<5	6.0	0.7	25
S00354244	0.85	281	<5	12.8	1.5	90
S00354245	0.80	343	<5	14.5	1.7	111
S00354246	0.54	306	<5	14.5	1.8	118
S00354247	0.77	295	<5	14.9	1.8	109
S00354248	0.39	227	<5	15.6	1.8	96
*Rep S00354222	0.34	298	<5	13.3	1.5	139
*Std OREAS680	0.52	220	<5	14.9	1.7	2350
*Std OREAS70B	0.18	68	<5	9.4	1.0	115
*Blk BLANK	<0.01	<5	<5	<0.5	<0.1	<5

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