



TEST REPORT

Performed for: Miele
 IBR JN: 10222-D
 Date: March 14, 2009

Location: Princeton, NJ
 Contact: N. Gast

Test Method: Vacuum Cleaner Fractional Efficiency per ASTM F1977-04
 Flow Rate: 58 SCFM Sheath Air Flow Rate: 174 SCFM
 Conditions: Temp. 72F, Relative Humidity 51%, Barometric Pressure 726 mm Hg
 Instrumentation: HR 5230, S/N 041002003, Cal due May-09
 Contaminant: KCl Neutralized

Description of Sample: Miele S7 Jazz Upright Vacuum Cleaner TEST-1

Model: S7280 S/N: 0944173136 Filters: As installed by manufacturer
 Date Samples Received: February 6, 2009 Sample Source: IBR Open Mkt Purchase

Time mins	Motor Status	Inject Status	Port	Particles/5ft3 at: (in microns)						
				0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.8	0.8-1	1-2.5	2.5-3.75
5	off	off	Downstream	32	13	6	4	4	6	7
5	off	off	Downstream	13	12	3	4	3	8	5
5	off	off	Downstream	13	16	8	7	5	17	12
5	on	off	Downstream	1,064	468	120	64	76	80	24
5	on	off	Upstream	2	1	1	0	0	1	2
5	on	off	Downstream	888	408	164	92	56	84	40
5	on	off	Upstream	9	2	0	0	1	2	4
5	on	off	Downstream	904	532	152	80	60	80	28
5	on	off	Upstream	1	1	0	3	0	2	0
5	on	on	Upstream	7,835,880	4,808,310	488,970	141,030	40,470	14,760	1,680
5	on	on	Downstream	1,456	576	76	68	64	44	20
5	on	on	Upstream	8,109,030	4,627,620	530,280	136,860	35,910	15,930	1,500
5	on	on	Downstream	1,496	636	148	56	24	28	12
5	on	on	Upstream	8,019,150	4,733,280	516,780	138,780	36,300	15,090	1,650
5	on	on	Downstream	1,404	684	128	80	44	48	16
Total upstream				23,964,060	14,169,210	1,536,030	416,670	112,680	45,780	4,830
Total downstream				4,356	1,896	352	204	132	120	48
Net downstream				1,500	488	-84	-32	-60	-124	-44
Gross Efficiency				99.98	99.99	99.98	99.95	99.88	99.74	99.01
Net Efficiency				99.99	>99.99	>99.99	>99.99	>99.99	>99.99	>99.9

Notice: These data relate only to the samples tested. This report may be copied only in its entirety.

pg 1/3

Performed By: DN

Data Location: DN69

Reviewed By:

Susan H Goldsmith, Director of Technical Services

IBR 11599 Morrissey Rd Grass Lake MI USA 49240 Voice 517-522-8453

TEST REPORT

Performed for: Miele
 IBR JN: 10222-D
 Date: March 14, 2009

Location: Princeton, NJ
 Contact: N. Gast

Test Method: Vacuum Cleaner Fractional Efficiency per ASTM F1977-04
 Flow Rate: 58 SCFM Sheath Air Flow Rate: 174 SCFM
 Conditions: Temp. 72F, Relative Humidity 51%, Barometric Pressure 726 mm Hg
 Instrumentation: HR 5230, S/N 041002003, Cal due May-09
 Contaminant: KCl Neutralized

Description of Sample: Miele S7 Jazz Upright Vacuum Cleaner TEST-2

Model: S7280 S/N: 0944173136 Filters: As installed by manufacturer
 Date Samples Received: February 6, 2009 Sample Source: IBR Open Mkt Purchase

Time mins	Motor Status	Inject Status	Port	Particles/5ft3 at:(in microns)						
				0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.8	0.8-1	1-2.5	2.5-3.75
5	off	off	Downstream	7	1	0	1	0	0	0
5	off	off	Downstream	17	5	3	1	5	6	2
5	off	off	Downstream	8	2	2	0	0	2	0
5	on	off	Downstream	1,092	992	436	232	124	420	180
5	on	off	Upstream	0	0	0	0	0	0	0
5	on	off	Downstream	1,000	1,008	472	368	240	656	324
5	on	off	Upstream	0	0	1	0	0	0	0
5	on	off	Downstream	1,020	856	396	180	120	284	104
5	on	off	Upstream	0	1	0	0	0	0	1
5	on	on	Upstream	7,961,340	4,642,320	693,120	159,750	36,060	16,350	210
5	on	on	Downstream	1,124	444	64	48	16	40	28
5	on	on	Upstream	7,801,860	4,526,580	663,810	149,730	33,660	14,490	300
5	on	on	Downstream	1,304	628	104	96	36	44	36
5	on	on	Upstream	7,943,430	4,620,570	684,990	154,380	35,340	15,870	240
5	on	on	Downstream	1,120	408	96	32	32	24	24
Total upstream				23,706,630	13,789,470	2,041,920	463,860	105,060	46,710	750
Total downstream				3,548	1,480	264	176	84	108	88
Net downstream				436	-1,376	-1,040	-604	-400	-1,252	-520
Gross Efficiency				99.99	99.99	99.99	99.96	99.92	99.77	88.27
Net Efficiency				>99.99	>99.99	>99.99	>99.99	>99.99	>99.99	>99.9

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pg 2/3

Performed By: DN

Data Location: DN69

Reviewed By: _____

Susan H Goldsmith, Director of Technical Services

IBR 11599 Morrissey Rd Grass Lake MI USA 49240 Voice 517-522-8453

TEST REPORT

Performed for: Miele
 IBR JN: 10222-D
 Date: March 14, 2009

Location: Princeton, NJ
 Contact: N. Gast

Test Method: Vacuum Cleaner Fractional Efficiency per ASTM F1977-04
 Flow Rate: 58 SCFM Sheath Air Flow Rate: 174 SCFM
 Conditions: Temp. 72F, Relative Humidity 51%, Barometric Pressure 726 mm Hg
 Instrumentation: HR 5230, S/N 041002003, Cal due May-09
 Contaminant: KCl Neutralized

Description of Sample: Miele S7 Jazz Upright Vacuum Cleaner TEST-3

Model: S7280 S/N: 0944173136 Filters: As installed by manufacturer
 Date Samples Received: February 6, 2009 Sample Source: IBR Open Mkt Purchase

Time mins	Motor Status	Inject Status	Port	Particles/5ft3 at:(in microns)						
				0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.8	0.8-1	1-2.5	2.5-3.75
5	off	off	Downstream	6	1	1	1	0	0	0
5	off	off	Downstream	21	10	6	2	1	2	2
5	off	off	Downstream	7	2	0	0	0	0	1
5	on	off	Downstream	720	500	176	68	60	76	40
5	on	off	Upstream	0	0	0	0	0	1	0
5	on	off	Downstream	780	396	108	72	28	40	28
5	on	off	Upstream	0	0	0	0	0	2	0
5	on	off	Downstream	632	516	192	92	52	52	36
5	on	off	Upstream	0	0	0	0	0	0	0
5	on	on	Upstream	7,811,190	4,508,580	652,170	143,670	32,160	14,880	330
5	on	on	Downstream	1,480	540	132	88	36	56	44
5	on	on	Upstream	7,462,530	4,195,800	592,800	128,370	27,630	14,070	540
5	on	on	Downstream	1,196	504	132	64	44	48	20
5	on	on	Upstream	7,614,480	4,371,330	628,770	136,770	30,750	14,610	360
5	on	on	Downstream	1,552	664	140	92	56	52	36
Total upstream				22,888,200	13,075,710	1,873,740	408,810	90,540	43,560	1,230
Total downstream				4,228	1,708	404	244	136	156	100
Net downstream				2,096	296	-72	12	-4	-12	-4
Gross Efficiency				99.98	99.99	99.98	99.94	99.85	99.64	91.87
Net Efficiency				99.99	>99.99	>99.99	>99.99	>99.99	>99.99	>99.9

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pg 3/3

Performed By: DN

Data Location: DN69

Reviewed By:

Susan H Goldsmith, Director of Technical Services

IBR 11599 Morrissey Rd Grass Lake MI USA 49240 Voice 517-522-8453



TEST REPORT

Performed for: Miele
 IBR JN: 10222-E
 Date: March 14, 2009

Location: Princeton, NJ
 Contact: N. Gast

Test Method: Vacuum Cleaner Fractional Efficiency per ASTM F1977-04
 Flow Rate: 58 SCFM Sheath Air Flow Rate: 174 SCFM
 Conditions: Temp. 72F, Relative Humidity 53%, Barometric Pressure 727 mm Hg
 Instrumentation: HR 5230, S/N 041002003, Cal due May-09
 Contaminant: KCl Neutralized

Description of Sample: Miele S7 Jazz Upright Vacuum Cleaner TEST-1

Model: S7280 S/N: 0942042625 Filters: As installed by manufacturer
 Date Samples Received: February 6, 2009 Sample Source: IBR Open Mkt Purchase

Time mins	Motor Status	Inject Status	Port	Particles/5ft3 at:(in microns)						
				0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.8	0.8-1	1-2.5	2.5-3.75
5	off	off	Downstream	10	3	3	0	1	2	2
5	off	off	Downstream	6	2	0	0	0	0	0
5	off	off	Downstream	9	3	2	0	1	0	1
5	on	off	Downstream	560	320	64	24	36	44	8
5	on	off	Upstream	3	1	0	1	0	1	0
5	on	off	Downstream	720	280	112	48	52	36	12
5	on	off	Upstream	2	0	0	0	0	0	0
5	on	off	Downstream	472	212	100	40	44	40	4
5	on	off	Upstream	4	2	0	0	0	0	0
5	on	on	Upstream	8,080,860	4,878,870	706,440	155,700	34,980	14,580	600
5	on	on	Downstream	992	412	120	36	8	16	8
5	on	on	Upstream	8,561,280	4,931,070	762,600	175,260	41,910	18,090	480
5	on	on	Downstream	1,104	300	124	48	20	8	0
5	on	on	Upstream	8,328,420	4,695,870	654,300	144,330	30,090	13,530	510
5	on	on	Downstream	1,044	364	132	32	12	8	4
Total upstream				24,970,560	14,505,810	2,123,340	475,290	106,980	46,200	1,590
Total downstream				3,140	1,076	376	116	40	32	12
Net downstream				1,388	264	100	4	-92	-88	-12
Gross Efficiency				99.99	99.99	99.98	99.98	99.96	99.93	99.25
Net Efficiency				99.99	>99.99	>99.99	>99.99	>99.99	>99.99	>99.9

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pg 1/3

Performed By: DN

Data Location: DN69

Reviewed By:

 Susan H Goldsmith, Director of Technical Services

IBR 11599 Morrissey Rd Grass Lake MI USA 49240 Voice 517-522-8453

TEST REPORT

Performed for: Miele
 IBR JN: 10222-E
 Date: March 14, 2009

Location: Princeton, NJ
 Contact: N. Gast

Test Method: Vacuum Cleaner Fractional Efficiency per ASTM F1977-04
 Flow Rate: 58 SCFM Sheath Air Flow Rate: 174 SCFM
 Conditions: Temp. 72F, Relative Humidity 53%, Barometric Pressure 727 mm Hg
 Instrumentation: HR 5230, S/N 041002003, Cal due May-09
 Contaminant: KCl Neutralized

Description of Sample: Miele S7 Jazz Upright Vacuum Cleaner TEST-2

Model: S7280 S/N: 0942042625 Filters: As installed by manufacturer
 Date Samples Received: February 6, 2009 Sample Source: IBR Open Mkt Purchase

Time mins	Motor Status	Inject Status	Port	Particles/5ft3 at:(in microns)						
				0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.8	0.8-1	1-2.5	2.5-3.75
5	off	off	Downstream	11	4	1	1	0	1	3
5	off	off	Downstream	6	2	1	0	0	0	0
5	off	off	Downstream	13	6	3	1	2	2	3
5	on	off	Downstream	448	292	108	40	28	32	16
5	on	off	Upstream	0	0	1	0	0	0	0
5	on	off	Downstream	528	612	288	172	168	332	128
5	on	off	Upstream	0	0	0	0	0	0	0
5	on	off	Downstream	440	284	88	56	28	16	12
5	on	off	Upstream	1	0	0	0	0	0	0
5	on	on	Upstream	8,519,760	5,959,500	1,125,660	296,370	69,390	31,440	1,080
5	on	on	Downstream	1,336	612	128	44	36	56	16
5	on	on	Upstream	8,276,520	5,558,190	1,001,130	252,960	60,060	25,830	750
5	on	on	Downstream	1,032	352	68	48	32	20	20
5	on	on	Upstream	8,376,300	5,774,580	1,076,760	270,180	63,210	31,770	1,290
5	on	on	Downstream	1,144	424	108	24	28	28	8
Total upstream				25,172,580	17,292,270	3,203,550	819,510	192,660	89,040	3,120
Total downstream				3,512	1,388	304	116	96	104	44
Net downstream				2,096	200	-180	-152	-128	-276	-112
Gross Efficiency				99.99	99.99	99.99	99.99	99.95	99.88	98.59
Net Efficiency				99.99	>99.99	>99.99	>99.99	>99.99	>99.99	>99.9

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pg 2/3

Performed By: DN

Data Location: DN69

Reviewed By: _____

Susan H Goldsmith, Director of Technical Services

IBR 11599 Morrissey Rd Grass Lake MI USA 49240 Voice 517-522-8453

TEST REPORT

Performed for: Miele
 IBR JN: 10222-E
 Date: March 14, 2009

Location: Princeton, NJ
 Contact: N. Gast

Test Method: Vacuum Cleaner Fractional Efficiency per ASTM F1977-04
 Flow Rate: 58 SCFM Sheath Air Flow Rate: 174 SCFM
 Conditions: Temp. 72F, Relative Humidity 53%, Barometric Pressure 727 mm Hg
 Instrumentation: HR 5230, S/N 041002003, Cal due May-09
 Contaminant: KCl Neutralized

Description of Sample: Miele S7 Jazz Upright Vacuum Cleaner TEST-3

Model: S7280 S/N: 0942042625 Filters: As installed by manufacturer
 Date Samples Received: February 6, 2009 Sample Source: IBR Open Mkt Purchase

Time mins	Motor Status	Inject Status	Port	Particles/5ft3 at:(in microns)						
				0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.8	0.8-1	1-2.5	2.5-3.75
5	off	off	Downstream	26	10	7	1	5	3	7
5	off	off	Downstream	9	1	1	1	0	0	0
5	off	off	Downstream	11	3	2	0	2	0	0
5	on	off	Downstream	760	320	76	60	24	60	16
5	on	off	Upstream	5	1	0	0	0	1	1
5	on	off	Downstream	392	292	72	20	16	20	8
5	on	off	Upstream	4	1	0	0	0	0	0
5	on	off	Downstream	604	456	84	68	28	48	12
5	on	off	Upstream	3	0	1	0	0	1	0
5	on	on	Upstream	8,215,650	5,357,550	943,980	232,740	52,710	24,060	540
5	on	on	Downstream	1,056	436	104	28	12	36	4
5	on	on	Upstream	7,954,200	4,958,640	811,530	194,070	44,670	20,070	420
5	on	on	Downstream	1,456	540	76	36	12	40	8
5	on	on	Upstream	8,044,650	5,156,850	871,110	212,190	50,040	23,760	570
5	on	on	Downstream	952	424	88	32	16	20	0
Total upstream				24,214,500	15,473,040	2,626,620	639,000	147,420	67,890	1,530
Total downstream				3,464	1,400	268	96	40	96	12
Net downstream				1,708	332	36	-52	-28	-32	-24
Gross Efficiency				99.99	99.99	99.99	99.98	99.97	99.86	99.22
Net Efficiency				99.99	>99.99	>99.99	>99.99	>99.99	>99.99	>99.9

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pg 3/3

Performed By: DN

Data Location: DN69

Reviewed By: _____

Susan H Goldsmith, Director of Technical Services

IBR 11599 Morrissey Rd Grass Lake MI USA 49240 Voice 517-522-8453



TEST REPORT

Performed for: Miele
 IBR JN: 10222-F
 Date: March 14, 2009

Location: Princeton, NJ
 Contact: N. Gast

Test Method: Vacuum Cleaner Fractional Efficiency per ASTM F1977-04
 Flow Rate: 58 SCFM Sheath Air Flow Rate: 174 SCFM
 Conditions: Temp. 73F, Relative Humidity 49%, Barometric Pressure 726 mm Hg
 Instrumentation: HR 5230, S/N 041002003, Cal due May-09
 Contaminant: KCI Neutralized

Description of Sample: Miele S7 Jazz Upright Vacuum Cleaner TEST-1
 Model: S7280 S/N: 0942039823 Filters: As installed by manufacturer
 Date Samples Received: February 6, 2009 Sample Source: IBR Open Mkt Purchase

Time mins	Motor Status	Inject Status	Port	Particles/5ft3 at:(in microns)						
				0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.8	0.8-1	1-2.5	2.5-3.75
5	off	off	Downstream	27	14	11	5	7	13	8
5	off	off	Downstream	14	6	7	2	3	10	10
5	off	off	Downstream	21	5	3	0	0	9	4
5	on	off	Downstream	1,412	944	328	232	160	60	56
5	on	off	Upstream	1	0	0	0	0	0	0
5	on	off	Downstream	1,520	980	460	332	184	92	48
5	on	off	Upstream	0	0	0	0	0	0	0
5	on	off	Downstream	1,456	788	320	212	128	72	60
5	on	off	Upstream	0	0	0	0	0	0	0
5	on	on	Upstream	8,384,520	5,747,040	1,047,270	262,470	63,360	28,710	1,590
5	on	on	Downstream	2,224	848	112	72	40	44	44
5	on	on	Upstream	8,186,160	5,487,150	973,620	247,920	57,300	26,910	1,230
5	on	on	Downstream	2,252	720	168	92	40	84	28
5	on	on	Upstream	8,217,330	5,847,150	1,129,560	297,930	73,290	34,230	1,350
5	on	on	Downstream	2,048	788	176	68	44	60	36
Total upstream				24,788,010	17,081,340	3,150,450	808,320	193,950	89,850	4,170
Total downstream				6,524	2,356	456	232	124	188	108
Net downstream				2,136	-356	-652	-544	-348	-36	-56
Gross Efficiency				99.97	99.99	99.99	99.97	99.94	99.79	97.41
Net Efficiency				99.99	>99.99	>99.99	>99.99	>99.99	>99.99	>99.9

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 pg 1/3 Performed By: DN Data Location: DN69

Reviewed By: _____
 Susan H Goldsmith, Director of Technical Services
 IBR 11599 Morrissey Rd Grass Lake MI USA 49240 Voice 517-522-8453

TEST REPORT

Performed for: Miele
 IBR JN: 10222-F
 Date: March 14, 2009

Location: Princeton, NJ
 Contact: N. Gast

Test Method: Vacuum Cleaner Fractional Efficiency per ASTM F1977-04
 Flow Rate: 58 SCFM Sheath Air Flow Rate: 174 SCFM
 Conditions: Temp. 73F, Relative Humidity 49%, Barometric Pressure 726 mm Hg
 Instrumentation: HR 5230, S/N 041002003, Cal due May-09
 Contaminant: KCl Neutralized

Description of Sample: Miele S7 Jazz Upright Vacuum Cleaner TEST-2

Model: S7280 S/N: 0942039823 Filters: As installed by manufacturer
 Date Samples Received: February 6, 2009 Sample Source: IBR Open Mkt Purchase

Time mins	Motor Status	Inject Status	Port	Particles/5ft3 at:(in microns)						
				0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.8	0.8-1	1-2.5	2.5-3.75
5	off	off	Downstream	29	32	10	9	11	14	12
5	off	off	Downstream	25	18	5	3	3	8	9
5	off	off	Downstream	18	16	9	1	5	11	5
5	on	off	Downstream	864	552	172	112	24	40	68
5	on	off	Upstream	0	0	0	0	0	0	0
5	on	off	Downstream	956	560	144	92	60	40	36
5	on	off	Upstream	0	0	0	0	0	0	0
5	on	off	Downstream	1,148	572	176	128	56	32	48
5	on	off	Upstream	0	0	0	0	0	0	0
5	on	on	Upstream	7,688,190	4,749,810	753,480	178,860	40,020	17,430	1,050
5	on	on	Downstream	1,812	632	144	88	72	28	32
5	on	on	Upstream	7,621,980	4,599,840	717,210	166,680	38,250	15,300	1,380
5	on	on	Downstream	1,636	540	108	52	24	32	28
5	on	on	Upstream	7,658,220	4,627,080	733,950	172,710	39,720	19,320	1,230
5	on	on	Downstream	1,728	524	140	60	44	24	40
Total upstream				22,968,390	13,976,730	2,204,640	518,250	117,990	52,050	3,660
Total downstream				5,176	1,696	392	200	140	84	100
Net downstream				2,208	12	-100	-132	0	-28	-52
Gross Efficiency				99.98	99.99	99.98	99.96	99.88	99.84	97.27
Net Efficiency				99.99	>99.99	>99.99	>99.99	>99.99	>99.99	>99.9

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pg 2/3

Performed By: DN

Data Location: DN69

Reviewed By:

Susan H Goldsmith, Director of Technical Services

IBR 11599 Morrissey Rd Grass Lake MI USA 49240 Voice 517-522-8453

TEST REPORT

Performed for: Miele
 IBR JN: 10222-F
 Date: March 14, 2009

Location: Princeton, NJ
 Contact: N. Gast

Test Method: Vacuum Cleaner Fractional Efficiency per ASTM F1977-04
 Flow Rate: 58 SCFM Sheath Air Flow Rate: 174 SCFM
 Conditions: Temp. 73F, Relative Humidity 49%, Barometric Pressure 726 mm Hg
 Instrumentation: HR 5230, S/N 041002003, Cal due May-09
 Contaminant: KCl Neutralized

Description of Sample: Miele S7 Jazz Upright Vacuum Cleaner TEST-3

Model: S7280 S/N: 0942039823 Filters: As installed by manufacturer
 Date Samples Received: February 6, 2009 Sample Source: IBR Open Mkt Purchase

Time mins	Motor Status	Inject Status	Port	Particles/5ft3 at:(in microns)						
				0.3-0.4	0.4-0.5	0.5-0.6	0.6-0.8	0.8-1	1-2.5	2.5-3.75
5	off	off	Downstream	37	15	7	3	4	7	8
5	off	off	Downstream	30	28	8	10	4	13	7
5	off	off	Downstream	15	8	3	1	1	6	5
5	on	off	Downstream	1,256	692	268	120	60	28	16
5	on	off	Upstream	0	1	0	0	0	0	0
5	on	off	Downstream	1,124	748	196	152	120	48	40
5	on	off	Upstream	0	0	0	0	0	0	0
5	on	off	Downstream	1,136	648	224	104	84	40	24
5	on	off	Upstream	1	1	0	4	0	2	2
5	on	on	Upstream	7,892,280	4,866,030	789,840	189,090	43,530	18,870	480
5	on	on	Downstream	1,844	616	176	52	40	24	16
5	on	on	Upstream	8,202,630	5,330,130	906,060	219,600	51,720	23,670	870
5	on	on	Downstream	1,972	836	184	96	64	36	16
5	on	on	Upstream	7,895,580	5,012,970	839,970	204,510	45,330	20,610	810
5	on	on	Downstream	1,664	576	132	56	48	24	24
Total upstream				23,990,490	15,209,130	2,535,870	613,200	140,580	63,150	2,160
Total downstream				5,480	2,028	492	204	152	84	56
Net downstream				1,964	-60	-196	-172	-112	-32	-24
Gross Efficiency				99.98	99.99	99.98	99.97	99.89	99.87	97.41
Net Efficiency				99.99	>99.99	>99.99	>99.99	>99.99	>99.99	>99.9

Notice: These data relate only to the samples tested. This report may be copied only in its entirety.

pg 3/3

Performed By: DN

Data Location: DN69

Reviewed By:

Susan H Goldsmith, Director of Technical Services

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