

RF Source

Crystal Oscillator Test

Serial	Frequency	OCXO	+24 ma		-24V ma		TP2	TP2	TP3	TP3	TP4	TP4	POWER LED ON?	TP2	TP2	TP3	TP3	TP4	TP4	TP1	TP1
			+24V ma	P/F	-24V ma	P/F	VOLTS	P/F	VOLTS	P/F	VOLTS	P/F		NOISE	P/F	NOISE	P/F	NOISE	P/F		
S1000543	21.500000	500-14927	160 MA	PASS	20 MA	PASS	10.00	PASS	-15.00	PASS	15.00	PASS	YES	13 NV	PASS	25 NV	PASS	50 NV	PASS	47 NV	PASS
S1000544	21.500000	500-14927	200 MA	P	20 MA	PASS	10.21	PASS	-15.04	PASS	15.00	PASS	YES	17 NV	PASS	103 NV	PASS	165 NV	PASS	128 NV	PASS
S1000548	35.500000	500-14928	140 MA	PASS	20 MA	PASS	10.00	PASS	-15.00	PASS	15.00	PASS	YES	15 NV	PASS	35 NV	PASS	30 NV	PASS	45 NV	PASS
S1000549	35.500000	500-14928	200 MA	PASS	20 MA	PASS	10.00	P	-15.01	P	15.00	P	YES	25 NV	P	25 NV	P	33 NV	P	62 NV	P
S1000553	71.000000	500-20761	140	P	20	P	15.01	P	-15.03	P	15.01	P	YES	13 NV	P	19 NV	P	14 NV	P	54 NV	P
S1000554	71.000000	500-20761	160	P	20	P	10.00	P	-15.01	P	15.00	P	YES	13 NV	P	19 NV	P	13 NV	P	45 NV	P
S1000555	71.000000	500-20761	200	P	20	P	10.00	P	-15.00	P	14.99	P	YES	12 NV	P	28 NV	P	14 NV	P	56 NV	P
S1000556	71.000000	500-20761	190	P	20	P	10.00	P	-15.01	P	15.00	P	YES	15 NV	P	28 NV	P	20 NV	P	52 NV	P
S1000557	71.000000	500-20761	190	P	20	P	10.00	P	-15.01	P	15.01	P	YES	13 NV	P	28 NV	P	23 NV	P	48 NV	P
S1000558	71.000000	500-20761	200 MA	P	20 MA	P	10.00	P	-15.00	P	15.00	P	YES	14 NV	P	23 NV	P	38 NV	P	38 NV	P
S1000564	80.000000	500-22528	190 MA	P	20 MA	P	10.00	P	-15.00	P	15.00	P	YES	11 NV	P	23 NV	P	15 NV	P	48 NV	P
S1000565	80.000000	500-22528	160 MA	P	20 MA	P	10.00	P	-15.00	P	14.99	P	YES	9 NV	P	20 NV	P	14 NV	P	54 NV	P
S1000569	24.078360	500-14927	110 MA	P	20 MA	P	10.00	P	-15.00	P	+15.00	P	YES	12 NV	P	26 NV	P	15 NV	P	53 NV	P
S1000573	22.993090	500-14927	100 MA	P	20 MA	P	10.00	P	-15.01	P	+15.00	P	YES	18 NV	P	30 NV	P	28 NV	P	50 NV	P
S1000575	24.407079	500-14927	100 MA	P	20 MA	P	10.00	P	-14.99	P	+15.01	P	YES	11 NV	P	27 NV	P	19 NV	P	34 NV	P
S1000579	24.515730	500-14927	100 MA	P	20 MA	P	10.00	P	-14.99	P	+15.00	P	YES	14 NV	P	25 NV	P	14 NV	P	60 NV	P
S1000581	24.440707	500-14927	190 MA	P	20 MA	P	10.00	P	-15.01	P	+15.00	P	YES	14 NV	P	30 NV	P	15 NV	P	52 NV	P
S1000585	24.482125	500-14927	160	P	20 MA	P	10.00	P	-15.00	P	15.00	P	YES	12 NV	P	19 NV	P	28 NV	P	54 NV	P
S1000587	-9.099471	TBD	130	P	20	P	10.00	P	-14.99	P	14.99	P	YES	14 NV	P	32 NV	P	22 NV	P	53 NV	P
S1000591	-8.684428	TBD	190	P	20	P	10.00	P	-14.99	P	15.01	P	YES	14 NV	P	22 NV	P	16 NV	P	55 NV	P
S1000545	50 21.500000	500-14927	170 MA	P	20 MA	P	10.00	P	-15.00	P	15.00	P	YES	15 NV	P	28 NV	P	23 NV	P	44 NV	P
S1000550	45 35.500000	500-14928	160 MA	P	20 MA	P	10.04	PASS	-15.09	PASS	15.10	PASS	YES	20 NV	PASS	33 NV	PASS	68 NV	PASS	53 NV	PASS
S1000559	71.000000	500-20761	170	P	20	P	10.00	P	-15.00	P	15.00	P	YES	13 NV	P	23 NV	P	23 NV	P	48 NV	P
S1000566	80.000000	500-22528	160	P	20	P	10.00	P	-15.00	P	14.99	P	YES	10 NV	P	17 NV	P	18 NV	P	47 NV	P
S1000570	24.078360	500-14927	130	P	20	P	10.00	P	-15.01	P	14.99	P	YES	15 NV	P	18 NV	P	17 NV	P	51 NV	P
S1000574	22.993090	500-14927	180	P	20	P	10.00	P	-15.01	P	14.99	P	YES	10 NV	P	26 NV	P	23 NV	P	52 NV	P
S1000576	24.407079	500-14927	180	P	20	P	10.00	P	-15.01	P	14.99	P	YES	16 NV	P	28 NV	P	19 NV	P	45 NV	P
S1000580	24.515730	500-14927	140 MA	P	20 MA	P	10.00	P	-15.00	P	+15.00	P	YES	12 NV	P	27 NV	P	18 NV	P	40 NV	P
S1000582	24.440707	500-14927	110 MA	P	20 MA	P	10.00	P	-14.99	P	15.00	P	YES	14 NV	P	31 NV	P	23 NV	P	45 NV	P
S1000586	24.482125	500-14927	200 MA	P	20 MA	P	10.00	P	-14.99	P	+15.01	P	YES	16 NV	P	22 NV	P	24 NV	P	52 NV	P
S1000588	9.099471	TBD	190	P	20	P	10.00	P	-15.00	P	+15.00	P	YES	18 NV	P	22 NV	P	12 NV	P	51 NV	P
S1000592	8.684428	TBD	160	P	20	P	9.99	P	-14.99	P	+14.97	P	YES	10 NV	P	26 NV	P	18 NV	P	51 NV	P
S1000546	21.500000	500-14927	200 MA	PASS	20 MA	PASS	10.00	PASS	-14.97	PASS	15.00	PASS	YES	61 NV	PASS	60 NV	PASS	55 NV	PASS	30 NV	PASS
S1000551	35.500000	500-14928	200 MA	P	20 MA	P	10.00	P	-15.00	P	+15.00	PASS	YES	10 NV	P	26 NV	P	16 NV	P	51 NV	P
S1000560	71.000000	500-20761	190 MA	P	20 MA	P	10.00	P	-15.01	P	15.00	PASS	YES	12 NV	P	25 NV	P	18 NV	P	54 NV	P
S1000561	71.000000	500-20761	190	P	20	P	10.00	P	-14.99	P	14.99	PASS	YES	11 NV	P	23 NV	P	19 NV	P	30 NV	P
S1000562	71.000000	500-20761	200 MA	P	20 MA	P	10.00	P	-15.00	P	14.99	P	YES	34 NV	P	19 NV	P	18 NV	P	49 NV	P
S1000567	80.000000	500-22528	190	P	20 MA	P	10.00	P	-15.01	P	15.00	P	YES	12 NV	P	22 NV	P	18 NV	P	52 NV	P
S1000571	24.078360	500-14927	100 MA	P	20 MA	P	10.00	P	-14.99	P	+15.00	P	YES	12 NV	P	23 NV	P	18 NV	P	59 NV	P
S1000577	24.407079	500-14927	190 MA	P	20 MA	P	10.00	P	-15.00	P	+15.00	P	YES	18 NV	P	32 NV	P	24 NV	P	45 NV	P
S1000583	24.440707	500-14927	190	P	20	P	10.00	P	-15.00	P	+14.99	P	YES	12 NV	P	28 NV	P	14 NV	P	54 NV	P
S1000589	-9.099471	TBD	200 MA	P	20	P	10.00	P	-15.04	P	+15.03	P	YES	20 NV	P	23 NV	P	14 NV	P	52 NV	P
S1000547	21.500000	500-14927	200 MA	PASS	20 MA	PASS	10.00	PASS	-15.00	PASS	+15.00	PASS	YES	5 NV	PASS	250 NV	PASS	15 NV	PASS	55 NV	P
S1000552	35.500000	500-14928	160 MA	P	20 MA	P	10.01	P	-14.99	P	+15.00	P	YES	9 NV	P	108 NV	P	29 NV	P	48 NV	P
S1000563	71.000000	500-20761	160	P	20	P	10.00	P	-15.00	P	+15.00	P	YES	10 NV	P	19 NV	P	12 NV	P	56 NV	P
S1000568	80.000000	500-22528	190	P	20	P	20.00	P	-15.01	P	+15.00	P	YES	14 NV	P	26 NV	P	14 NV	P	46 NV	P
S1000572	24.078360	500-14927	110 MA	P	20	P	10.00	P	-15.00	P	+15.00	P	YES	34 NV	P	14 NV	P	14 NV	P	37 NV	P
S1000578	24.407079	500-14927	110 MA	P	20 MA	P	10.00	P	-15.01	P	+14.99	P	YES	16 NV	P	24 NV	P	16 NV	P	54 NV	P
S1000584	24.440707	500-14927	100 MA	P	20 MA	P	10.00	P	-15.00	P	+14.99	P	YES	13 NV	P	20 NV	P	19 NV	P	54 NV	P
S1000590	-9.099471	TBD	170 MA	P	20 MA	P	10.00	P	-15.00	P	+15.00	P	YES	22 NV	P	23 NV	P	15 NV	P	56 NV	P

RF Source		TECHNICIAN	<700 MA	PWR		HF PLL	HF PLL	1 PPSIN	V_VXCO	V_VXCO	S1	S2	S3	S4	S5	S6	S7	S8	S9	TP1	TP1	TP5	TP5	TP8	TP8	TP3	TP3	TP5	TP5	TP4	TP4	TP5	
Serial	Frequency	INITIALS	12V R/F CURRENT	12V P/F	LED ON YES/NO	JTAG OK	TP2 VOLT OPEN	TP2 VOLT CONN	LED BLINK YES/NO	OPEN VOLTS	CONN VOLTS	DESC FAIL P/F	DESC FAIL P/F	DESC FAIL P/F	DESC FAIL P/F	DESC FAIL P/F	DESC FAIL P/F	DESC FAIL P/F	DESC FAIL P/F	DESC FAIL P/F	+12V VOLTS	+12V P/F	+24V VOLTS	+24V P/F	-24V VOLTS	-24V P/F	+18V VOLTS	+18V P/F	-18V VOLTS	-18V P/F	+10V VOLTS	+10V P/F	+5V VOLTS
S1000543	21.500000	CC	340 mA	12.12	Y	Y	0	4.63	Y	0.004	4.63	P	P	P	P	P	P	P	P	P	12.12	P	24.06	P	-24.07	P	18.24	P	-17.99	P	9.92	P	5.18
S1000544	21.500000	CC	350 mA	12.12	Y	Y	0	4.69	Y	0.004	4.68	P	P	P	P	P	P	P	P	P	12.10	P	24.05	P	-24.07	P	18.29	P	-17.87	P	9.96	P	5.19
S1000545	21.500000	CC	350 mA	12.12	Y	Y	0	4.66	Y	0.003	4.65	P	P	P	P	P	P	P	P	P	12.12	P	24.05	P	-24.07	P	18.01	P	-18.29	P	9.92	P	5.19
S1000546	21.500000	CC	350 mA	12.12	Y	Y	0	4.62	Y	0.003	4.62	P	P	P	P	P	P	P	P	P	12.12	P	24.05	P	-24.07	P	18.27	P	-18.35	P	9.94	P	5.18
S1000547	21.500000	CC	340 mA	12.12	Y	Y	0	4.63	Y	0.004	4.63	P	P	P	P	P	P	P	P	P	12.12	P	24.05	P	-24.07	P	18.25	P	-18.39	P	9.94	P	5.18
S1000573	22.993090	CC	340 mA	12.15	Y	Y	0	4.60	Y	0.009	4.66	P	P	P	P	P	P	P	P	P	12.18	P	24.05	P	-24.07	P	18.31	P	-18.39	P	9.93	P	5.19
S1000574	22.993090	CC	350 mA	12.15	Y	Y	0	4.85	Y	0.004	4.85	P	P	P	P	P	P	P	P	P	12.15	P	24.06	P	-24.07	P	18.21	P	-17.67	P	9.85	P	5.21
S1000569	24.078360	CC	340 mA	12.17	Y	Y	0	4.68	Y	0.001	4.68	P	P	P	P	P	P	P	P	P	12.17	P	24.05	P	-24.07	P	18.21	P	-18.35	P	9.95	P	5.16
S1000570	24.078360	CC	340 mA	12.10	Y	Y	0	4.70	Y	0.003	4.67	P	P	P	P	P	P	P	P	P	12.10	P	24.06	P	-24.07	P	18.26	P	-18.46	P	9.94	P	5.20
S1000571	24.078360	CC	340 mA	12.18	Y	Y	0	4.66	Y	0.001	4.66	P	P	P	P	P	P	P	P	P	12.18	P	24.05	P	-24.07	P	18.25	P	-18.66	P	9.96	P	5.18
S1000572	24.078360	CC	340 mA	12.14	Y	Y	0.001	4.70	Y	0.003	4.69	P	P	P	P	P	P	P	P	P	12.13	P	24.05	P	-24.07	P	18.25	P	-18.45	P	9.93	P	5.17
S1000575	24.407079	CC	350 mA	12.19	Y	Y	0	4.66	Y	0.003	4.66	P	P	P	P	P	P	P	P	P	12.10	P	24.05	P	-24.07	P	18.29	P	-18.29	P	9.89	P	5.18
S1000576	24.407079	CC	350 mA	12.07	Y	Y	0.001	4.69	Y	0.003	4.69	P	P	P	P	P	P	P	P	P	12.07	P	24.05	P	-24.07	P	18.20	P	-18.09	P	9.94	P	5.20
S1000577	24.407079	CC	340 mA	12.15	Y	Y	0	4.61	Y	0.001	4.61	P	P	P	P	P	P	P	P	P	12.15	P	24.05	P	-24.07	P	18.21	P	-18.15	P	9.96	P	5.15
S1000578	24.407079	CC	350 mA	12.15	Y	Y	0	4.80	Y	0.003	4.80	P	P	P	P	P	P	P	P	P	12.15	P	24.05	P	-24.07	P	18.20	P	-18.48	P	9.93	P	5.20
S1000581	24.440707	CC	340 mA	12.20	Y	Y	0	4.72	Y	0.004	4.72	P	P	P	P	P	P	P	P	P	12.20	P	24.05	P	-24.07	P	18.28	P	-18.35	P	9.88	P	5.16
S1000582	24.440707	CC	340 mA	12.16	Y	Y	0.001	4.77	Y	0.003	4.77	P	P	P	P	P	P	P	P	P	12.16	P	24.05	P	-24.07	P	18.25	P	-18.26	P	9.88	P	5.16
S1000583	24.440707	CC	340 mA	12.15	Y	Y	0	4.68	Y	0.003	4.68	P	P	P	P	P	P	P	P	P	12.17	P	24.06	P	-24.07	P	18.32	P	-18.33	P	9.95	P	5.16
S1000584	24.440707	CC	340 mA	12.16	Y	Y	0	4.67	Y	0.000	4.67	P	P	P	P	P	P	P	P	P	12.16	P	24.05	P	-24.07	P	18.22	P	-18.48	P	9.90	P	5.18
S1000585	24.482125	CC	340 mA	12.13	Y	Y	0	4.71	Y	0.004	4.71	P	P	P	P	P	P	P	P	P	12.13	P	24.05	P	-24.07	P	18.28	P	-18.50	P	9.89	P	5.17
S1000586	24.482125	CC	350 mA	12.17	Y	Y	0.002	4.71	Y	0.003	4.71	P	P	P	P	P	P	P	P	P	12.17	P	24.05	P	-24.07	P	18.25	P	-18.45	P	9.95	P	5.17
S1000579	24.515730	CC	340 mA	12.17	Y	Y	0	4.68	Y	0.003	4.68	P	P	P	P	P	P	P	P	P	12.17	P	24.05	P	-24.07	P	18.24	P	-18.39	P	9.90	P	5.18
S1000580	24.515730	CC	340 mA	12.16	Y	Y	0	4.61	Y	0.003	4.60	P	P	P	P	P	P	P	P	P	12.16	P	24.05	P	-24.07	P	18.25	P	-18.47	P	9.96	P	5.17
S1000548	35.500000	CC	520 mA	12.15	Y	Y	0	4.79	Y	0.001	4.79	P	P	P	P	P	P	P	P	P	12.15	P	24.05	P	-24.07	P	18.27	P	-18.38	P	9.91	P	5.18
S1000549	35.500000	CC	340 mA	12.20	Y	Y	0	4.63	Y	0.003	4.63	P	P	P	P	P	P	P	P	P	12.20	P	24.05	P	-24.07	P	18.26	P	-18.55	P	9.93	P	5.20
S1000550	35.500000	CC	350 mA	12.20	Y	Y	0	4.61	Y	0.003	4.61	P	P	P	P	P	P	P	P	P	12.20	P	24.05	P	-24.07	P	18.32	P	-18.45	P	9.92	P	5.16
S1000551	35.500000	CC	350 mA	12.12	Y	Y	0	4.75	Y	0.003	4.75	P	P	P	P	P	P	P	P	P	12.12	P	24.05	P	-24.07	P	18.20	P	-18.4	P	9.89	P	5.18
S1000552	35.500000	CC	340 mA	12.13	Y	Y	0	4.70	Y	0.005	4.70	P	P	P	P	P	P	P	P	Y	12.12	P	24.05	P	-24.07	P	18.23	P	-18.18	P	9.91	P	5.16
S1000587	35.500000	CC	440 mA	12.20	Y	Y	0	4.69	Y	0.001	4.68	P	P	P	P	P	P	P	P	P	12.22	P	24.05	P	-24.07	P	18.25	P	-18.39	P	9.96	P	5.20
S1000553	71.000000	CC	480 mA	11.96	Y	Y	0.001	4.66	Y	0.004	4.65	P	P	P	P	P	P	P	P	P	12.00	P	24.05	P	-24.07	P	18.21	P	-18.48	P	9.91	P	5.18
S1000554	71.000000	CC	280 mA	12.03	Y	Y	0.001	4.67	Y	0.004	4.63	P	P	P	P	P	P	P	P	P	12.01	P	24.05	P	-24.07	P	18.23	P	-18.05	P	9.93	P	5.15
S1000555	71.000000	CC	400 mA	12.01	Y	Y	0	4.70	Y	0.003	4.71	P	P	P	P	P	P	P	P	P	12.01	P	24.05	P	-24.07	P	18.23	P	-18.29	P	9.88	P	5.17
S1000556	71.000000	CC	360 mA	11.88	Y	Y	0	4.71	Y	0.003	4.71	P	P	P	P	P	P	P	P	P	11.89	P	24.05	P	-24.07	P	18.29	P	-18.18	P	9.93	P	5.20
S1000557	71.000000	CC	400 mA	11.98	Y	Y	0.000	4.70	Y	0.003	4.70	P	P	P	P	P	P	P	P	P	12.00	P	24.05	P	-24.07	P	18.26	P	-18.4	P	9.88	P	5.20
S1000558	71.000000	CC	400 mA	11.98	Y	Y	0	4.58	Y	0.004	4.58	P	P	P	P	P	P	P	P	P	12.00	P	24.05	P	-24.07	P	18.27	P	-18.18	P	9.94	P	5.16
S1000559	71.000000	CC	410 mA	12.20	Y	Y	0	4.76	Y	0.004	4.76	P	P	P	P	P	P	P	P	P	12.20	P	24.05	P	-24.07	P	18.27	P	-18.34	P	9.95	P	5.16
S1000560	71.000000	CC	410 mA	12.01	Y	Y	0	4.61	Y	0.003	4.61	P	P	P	P	P	P	P	P	P	12.01	P	24.05	P	-24.07	P	18.27	P	-17.97	P	9.94	P	5.18
S1000561	71.000000	CC	410 mA	12.17	Y	Y	0	4.70	Y	0.005	4.70	P	P	P	P	P	P	P	P	P	12.19	P	24.06	P	-24.07	P	18.25	P	-18.23	P	9.94	P	5.16
S1000562	71.000000	CC	350 mA	12.20	Y	Y	0	4.62	Y	0.004	4.62	P	P	P	P	P	P	P	P	P	12.20	P	24.05	P	-24.07	P	18.27	P	-18.00	P	9.87	P	5.18
S1000563	71.000000	CC	410 mA	12.19	Y	Y	0	4.58	Y	0.004	4.58	P	P	P	P	P	P	P	P	P	12.19	P	24.05	P	-24.07	P	18.26	P	-17.99	P	9.92	P	5.18
S1000588	71.000000	CC	410 mA	12.18	Y	Y	0	4.52	Y	0.004	4.52	P	P	P	P	P	P	P	P	P	12.20	P	24.06	P	-24.07	P	18.29	P	-18.51	P	9.90	P	5.20
S1000589	71.000000	CC	400 mA	12.20	Y	Y	0	4.70	Y	0.004	4.70	P	P	P	P	P	P	P	P	P	12.20	P	24.05	P	-24.07	P	18.21	P	-18.17	P	9.92	P	5.20
S1000590	71.000000	CC	350 mA	12.20	Y	Y	0	4.64	Y	0.003	4.64	P	P	P	P	P	P	P	P	P	12.20	P	24.05	P	-24.07	P	18.23	P	-17.91	P	9.90	P	5.19
S1000564	80.000000	CC	340 mA	12.20	Y	Y	0	4.72	Y	0.003	4.71	P	P	P	P	P	P	P	P	P	12.20	P	24.06	P	-24.07	P	18.28	P	-18.28	P	9.91	P	5.18
S1000565	80.000000	CC	410 mA	12.18	Y	Y	0.001	4.60	Y	0.003	4.59	P	P	P	P	P	P	P	P	P	12.20	P	24.05	P	-24.07	P	18.21	P	-18.38	P	9.91	P	5.15
S1000566	80.000000	CC	400 mA	12.20	Y	Y	0.001	4.76	Y	0.004	4.75	P	P	P	P	P	P	P	P	P	12.20	P	24.05	P	-24.07	P	18.30	P	-18.09	P	9.92	P	5.19
S1000567	80.000000	CC	360 mA	12.20	Y	Y	0	4.66	Y	0.004	4.65	P	P	P	P	P	P	P	P	P	12.20	P	24.05	P	-24.07	P	18						

			VOLTS	MHZ	P/F	VOLTS	MHZ	P/F	VOLTS	MHZ	P/F	LOCKED				UNLOCKED				NOISE ANALYSIS													
Serial	Frequency	TP5	JAM ON 9.85 HI ON 11.89	JAM ON 11.29 HI ON 11.74	JAM ON HI ON	JAM ON LO ON 9.047	JAM ON LO ON 11.587	JAM ON LO ON	JAM ON LO ON 5.03	JAM ON LO ON 5.582	JAM ON LO ON	TP7 2.754 +5V 3.155	TP7 +5V P/F	DS3 LED BLINKS YES/NO	DS2 LED BLINKS YES/NO	V_OCKO 2.72 VOLTS 3.134	V_OCKO VOLTS P/F	BNC 2.29 TTL LEVEL 3.30	BNC TTL LEVEL P/F	BNC TTL LEVEL VOLTS	BNC TTL LEVEL P/F	DS3 LED BLINKS YES/NO	DS2 LED BLINKS YES/NO	RF OUT 13.22 POWER 11.99	RF OUT POWER P/F	100 DBC 10 HZ 114.7	P 10 HZ P/F	130 DBC 100 HZ 130.1	P 100 HZ P/F	155 DBC 1 KHZ 150.1	P 1 KHZ P/F	165 DBC 10 KHZ 156.7	P 10 KHZ P/F
S1000543	21.500000	+5V	9.85	11.29	HI ON	LO ON	11.587	LO ON	5.03	5.582	LO ON	2.754	P/F	Y	N	2.882	P	3.30	P	0	P	N	Y	12.98	P	-118.4	P	-130.5	P	-150.3	P	-156.7	P
S1000544	21.500000	P/F	9.85	11.29	HI ON	LO ON	11.587	LO ON	5.03	5.582	LO ON	2.754	P/F	Y	N	2.882	P	3.30	P	0	P	N	Y	12.98	P	-118.4	P	-130.5	P	-150.3	P	-156.7	P
S1000545	21.500000	P	9.85	11.29	HI ON	LO ON	11.587	LO ON	5.03	5.582	LO ON	2.754	P/F	Y	N	2.882	P	3.30	P	0	P	N	Y	12.98	P	-118.4	P	-130.5	P	-150.3	P	-156.7	P
S1000546	21.500000	P	9.87	11.33	P	0.046	-1246	P	5.02	+675	P	2.764	P	Y	N	2.734	P	2.20	P	0	P	N	Y	12.71	P	-121.4	P	-130.8	P	-150.6	P	-156.4	P
S1000547	21.500000	P	9.87	11.51	P	0.046	-1184	P	5.02	+598	P	2.422	P	Y	N	2.894	P	3.30	P	0	P	N	Y	12.71	P	-119.0	P	-120.2	P	-151.0	P	-156.9	P
S1000573	22.993090	P	9.86	11.07	P	0.050	-1033	P	5.02	+572	P	2.586	P	Y	N	2.548	P	3.30	P	0	P	N	Y	12.94	P	-123.9	P	-130.7	P	-146.4	F	-156.0	P
S1000574	22.993090	P	9.78	11.07	P	0.049	-1528	P	5.03	+515	P	3.25	P	Y	N	3.220	P	3.30	P	0	P	N	Y	12.95	P	-120.9	P	-128.5	F	-148.4	F	-156.4	P
S1000569	24.078360	P	9.88	11.85	P	0.046	-1289	P	5.02	+659	P	2.889	P	Y	N	2.857	P	3.30	P	0	P	N	Y	13.16	P	-108.1	F	-126.8	F	-149.6	F	-156.0	P
S1000570	24.078360	P	9.87	11.79	P	0.049	-1214	P	5.02	+650	P	2.852	P	Y	N	2.822	P	3.31	P	0	P	N	Y	13.11	P	-119.0	P	-121.1	P	-142.7	F	-156.5	P
S1000571	24.078360	P	9.80	11.40	P	0.046	-1942	P	5.02	+525	P	3.40	P	Y	N	3.37	P	3.29	P	0	P	N	Y	13.08	P	-115.0	P	-129.2	P	-149.6	F	-156.6	P
S1000572	24.078360	P	9.87	11.26	P	0.047	-852	P	5.02	+583	P	2.466	P	Y	N	2.372	P	3.29	P	0	P	N	Y	13.13	P	-113.5	P	-129.0	F	-146.0	F	-156	P
S1000575	24.07079	P	9.82	11.267	P	0.048	-1201	P	5.02	+634	P	2.865	P	Y	N	2.839	P	3.30	P	0	P	N	Y	12.92	P	-117.0	P	-131.2	P	-150.3	P	-156.8	P
S1000576	24.07079	P	9.87	11.95	P	0.046	-779	P	5.03	+700	P	2.292	P	Y	N	2.269	P	3.30	P	0	P	N	Y	13.06	P	-116.8	P	-131.8	P	-150.7	P	-156.7	P
S1000577	24.07079	P	9.89	12.39	P	0.047	-1444	P	5.02	+901	P	2.603	P	Y	N	2.575	P	3.30	P	0	P	N	Y	13.02	P	-118.4	P	-132.6	P	-151.0	P	-156.6	P
S1000578	24.07079	P	9.86	11.231	P	0.048	-1582	P	5.03	+691	P	3.079	P	Y	N	3.050	P	3.30	P	0	P	N	Y	12.96	P	-118.0	P	-132.5	P	-150.9	P	-156.7	P
S1000581	24.440707	P	9.82	11.215	P	0.050	-1120	P	5.03	+753	P	2.610	P	Y	N	2.589	P	3.30	P	0	P	N	Y	12.58	P	-116.8	P	-129.2	P	-145.6	F	-156.5	
S1000582	24.440707	P	9.82	11.126	P	0.045	-1057	P	5.02	+700	P	2.624	P	Y	N	2.606	P	3.30	P	0	P	N	Y	13.04	P	-118.1	P	-130.8	P	-143.5	F	-156.7	P
S1000583	24.440707	P	9.88	11.154	P	0.045	-1136	P	5.02	+690	P	2.605	P	Y	N	2.577	P	3.30	P	0	P	N	Y	13.07	P	-116.4	P	-127.9	F	-143.7	F	-156.5	P
S1000584	24.440707	P	9.84	11.266	P	0.047	-1256	P	5.03	+752	P	2.712	P	Y	N	2.677	P	3.30	P	0	P	N	Y	12.93	P	-118.1	P	-130.0	P	-142.3	F	-157.0	P
S1000585	24.482125	P	9.82	11.119	P	0.048	-1083	P	5.03	+727	P	2.520	P	Y	N	2.490	P	3.29	P	0	P	N	Y	12.14	P	-121.8	P	-133.8	P	-146.6	F	-156.5	P
S1000586	24.482125	P	9.88	11.147	P	0.047	-1067	P	5.02	+758	P	2.457	P	Y	N	2.429	P	3.30	P	0	P	N	Y	12.18	P	-121.8	P	-133.8	P	-146.6	F	-156.5	P
S1000579	24.515730	P	9.83	11.252	P	0.046	-1125	P	5.02	+757	P	2.537	P	Y	N	2.511	P	3.30	P	0	P	N	Y	13.06	P	-119.9	P	-131.2	P	-146.7	F	-157.2	
S1000580	24.515730	P	9.89	11.070	P	0.044	-1636	P	5.02	+570	P	3.069	P	Y	N	3.043	P	3.30	P	0	P	N	Y	13.06	P	-121.5	P	-130.5	P	-147.6	F	-156.5	
S1000548	35.500000	P	9.84	11.835	P	0.050	-1957	P	5.02	+1093	P	2.691	P	Y	N	2.661	P	3.29	P	0	P	N	Y	11.72	P	-117.1	P	-130.6	P	-144.8	F	-155.3	P
S1000549	35.500000	P	9.86	11.801	P	0.048	-1748	P	5.02	+1091	P	2.623	P	Y	N	2.59	P	3.30	P	0	P	N	Y	11.50	P	-121.8	P	-130.7	P	-146.3	F	-155.3	P
S1000550	35.500000	P	9.85	11.816	P	0.046	-1763	P	5.02	+984	P	2.720	P	Y	N	2.69	P	3.30	P	0	P	N	Y	11.54	P	-121.1	P	-128.6	F	-145.7	F	-155.1	P
S1000551	35.500000	P	9.83	11.864	P	0.045	-1620	P	5.02	+1627	P											N	Y										
S1000552	35.500000	P	9.84	11.895	P	0.046	-2268	P	5.02	+973	P	2.970	P	Y	N	2.94	P	3.30	P	0	P	N	Y	12.16	P	-118.9	P	-129.6	F	-145.5	F	-155.4	P
S1000587	35.500000	P	9.89	11.795	P	0.046	-1869	P	5.02	+1054	P	2.733	P	Y	N	2.705	P	3.30	P	0	P	N	Y	11.50	P	-111.4	P	-125.1	F	-142.6	F	-155.1	P
S1000553	71.000000	P	9.84	11.383	P	0.048	-2859	P	5.03	-176	P	5.30	P	Y	N	5.27	P	3.29	P	0.0	P	N	Y	12.28	P	-111.2	P	-118.0	P	-145.9	P	-155.8	P
S1000554	71.000000	P	9.86	11.108	P	0.048	-2723	P	5.03	-105	P	5.19	P	Y	N	5.16	P	3.30	P	0.0	P	N	Y	12.67	P	-111.4	P	-116.2	F	-145.3	P	-156.4	P
S1000555	71.000000	P	9.82	11.098	P	0.046	-3281	P	5.02	+1162	P	5.00	P	Y	N	4.98	P	3.30	P	0.0	P	N	Y	12.33	P	-112.7	P	-117.6	P	-145.6	P	-156.5	P
S1000556	71.000000	P	9.87	11.085	P	0.048	-3573	P	5.03	-119	P	5.02	P	Y	N	4.98	P	3.38	P	0.0	P	N	Y	13.15	P	-110.7	P	-116.3	P	-145.3	P	-156.6	P
S1000557	71.000000	P	9.81	11.315	P	0.049	-3987	P	5.03	-374	P	5.50	P	Y	N	5.47	P	3.30	P	0.0	P	N	Y	12.54	P	-102.3	P	-118.1	P	-144.0	P	-155.8	P
S1000558	71.000000	P	9.87	11.470	P	0.048	-3277	P	5.02	-52	P	5.09	P	Y	N	5.06	P	3.30	P	0.0	P	N	Y	12.42	P	-111.2	P	-116.9	P	-143.8	P	-156.2	P
S1000559	71.000000	P	9.89	11.102	P	0.046	-3614	P	5.02	-127	P	5.19	P	Y	N	5.16	P	3.30	P	0	P	N	Y	12.79	P	-112.4	P	-116.4	P	-143.8	P	-156.3	P
S1000560	71.000000	P	9.87	11.326	P	0.046	-2913	P	5.02	-36	P	5.08	P	Y	N	5.05	P	3.29	P	0	P	N	Y	12.90	P	-111.6	P	-117.9	P	-145.0	P	-156.6	P
S1000561	71.000000	P	9.87	11.531	P	0.050	-3393	P	5.02	-254	P	5.35	P	Y	N	5.32	P	3.29	P	0	P	N	Y	12.58	P	-111.0	P	-117.8	P	-145.3	P	-156.6	P
S1000562	71.000000	P	9.80	11.455	P	0.047	-3040	P	5.02	-81	P	5.14	P	Y	N	5.11	P	3.29	P	0	P	N	Y	12.38	P	-112.2	P	-117.4	P	-144.5	P	-156.2	P
S1000563	71.000000	P	9.85	11.428	P	0.047	-3591	P	5.03	-76	P	5.12	P	Y	N	5.09	P	3.30	P	0	P	N	Y	12.38	P	-111.4	P	-117.1	P	-144.4	P	-156.2	P
S1000588	71.000000	P	9.83	11.430	P	0.047	-3278	P	5.02	-41	P	5.08	P	Y	N	5.05	P	3.30	P	0	P	N	Y	12.71	P	-109.9	P	-116.9	P	-144.2	P	-156.1	P
S1000589	71.000000	P	9.85	11.388	P	0.048	-3436	P	5.03	-248	P	5.35	P	Y	N	5.32	P	3.30	P	0	P	N	Y	12.31	P	-112.2	P	-117.6	P	-144.2	P	-156.2	P
S1000590	71.000000	P	9.83	11.398	P	0.046	-3026	P	5.02	-285	P	5.44	P	Y	N	5.41	P	3.30	P	0	P	N	Y	12.66	P	-109.8	P	-112.7	P	-144.2	P	-156.3	P
S1000564	80.000000	P	9.84	11.513	P	0.047	-3875	P	5.02	-137	P	5.17	P	Y	N	5.14	P	3.30	P	0	P	N	Y	12.39	P	-110.8	P	-116.8	P	-142.1	P	-156.3	P
S1000565	80.000000	P	9.84	11.564	P	0.050	-3788	P	5.02	-88	P	5.12	P	Y	N	5.09	P	3.30	P	0	P	N	Y	11.82	P	-111.1	P	-116.9	P	-142.8	P	-156.6	P
S1000566	80.000000	P	9.85	11.545	P	0.048	-4148	P	5.02	-52	P	5.07	P	Y	N	5.05	P	3.20	P	0	P	N											