



11N40MIMO\_Ant2\_5270



11N40MIMO\_Ant1\_5310





11N40MIMO\_Ant2\_5310



11N40MIMO\_Ant1\_5510



11N40MIMO\_Ant2\_5510



11N40MIMO\_Ant1\_5550



11N40MIMO\_Ant2\_5550





11N40MIMO\_Ant1\_5670



11N40MIMO\_Ant2\_5670



11N40MIMO\_Ant1\_5755





11N40MIMO\_Ant2\_5755



11N40MIMO\_Ant1\_5795





11N40MIMO\_Ant2\_5795



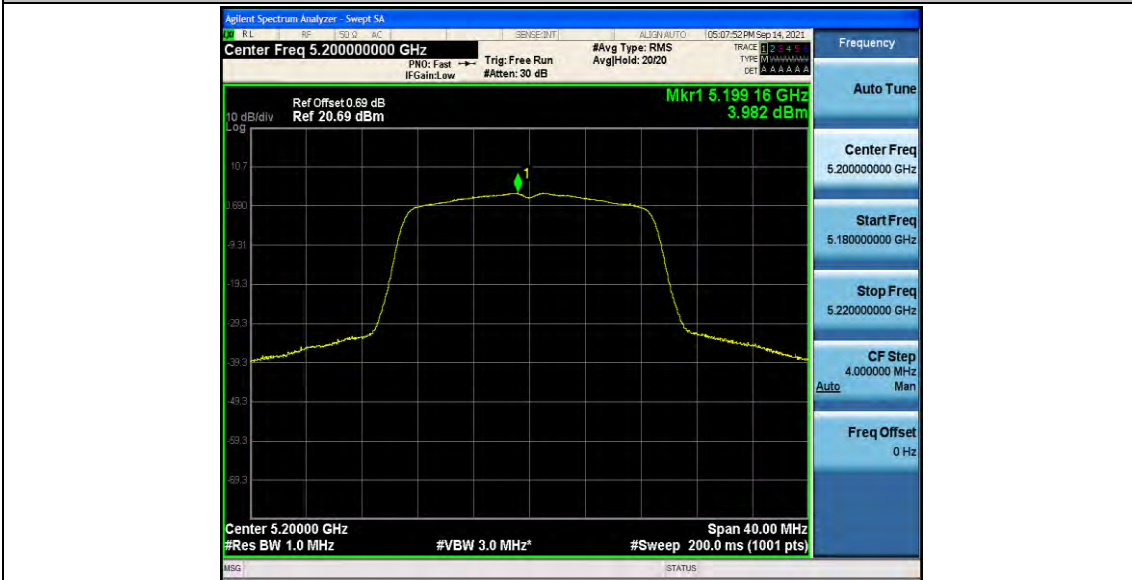
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11AC20MIMO\_Ant2\_5180



11AC20MIMO\_Ant1\_5200



11AC20MIMO\_Ant2\_5200





11AC20MIMO\_Ant1\_5240



11AC20MIMO\_Ant2\_5240



11AC20MIMO\_Ant1\_5260





11AC20MIMO\_Ant2\_5260



11AC20MIMO\_Ant1\_5280





11AC20MIMO\_Ant2\_5280



11AC20MIMO\_Ant1\_5320



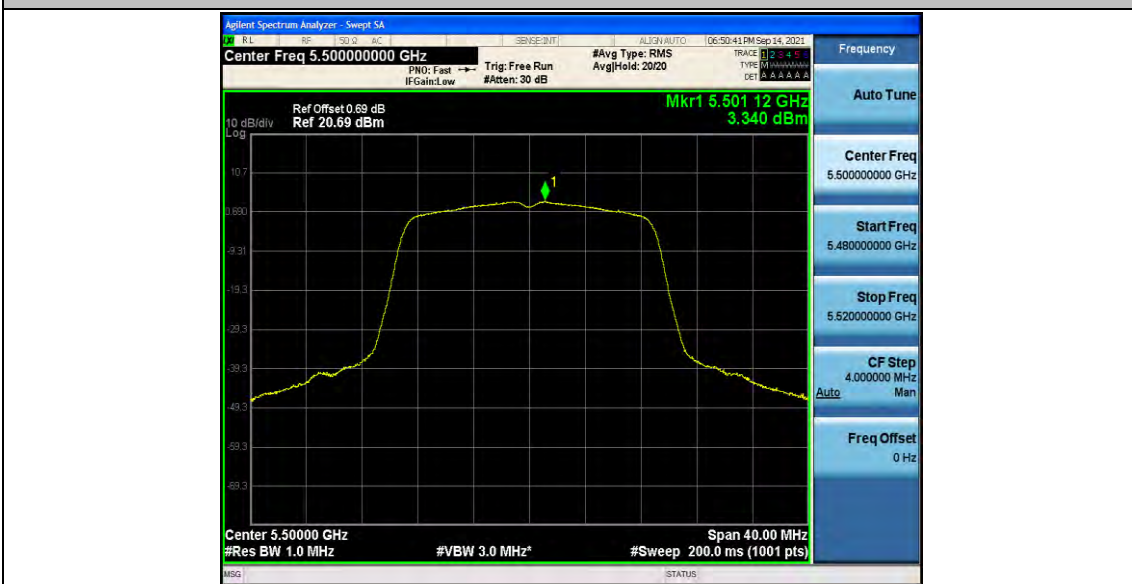
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11AC20MIMO\_Ant1\_5500

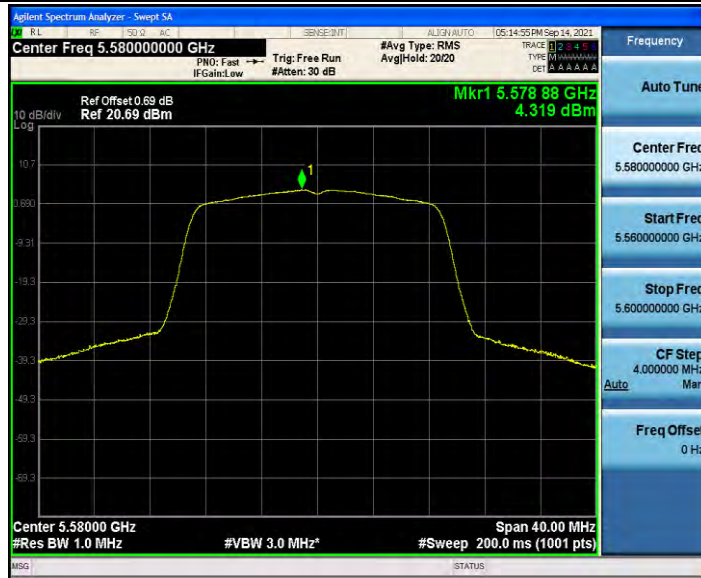


11AC20MIMO\_Ant2\_5500





11AC20MIMO\_Ant1\_5580



11AC20MIMO\_Ant2\_5580



11AC20MIMO\_Ant1\_5700





11AC20MIMO\_Ant2\_5700



11AC20MIMO\_Ant1\_5745





11AC20MIMO\_Ant2\_5745



11AC20MIMO\_Ant1\_5785



11AC20MIMO\_Ant2\_5785



11AC20MIMO\_Ant1\_5825



11AC20MIMO\_Ant2\_5825





11AC40MIMO\_Ant1\_5190



11AC40MIMO\_Ant2\_5190



11AC40MIMO\_Ant1\_5230





11AC40MIMO\_Ant2\_5230



11AC40MIMO\_Ant1\_5270





11AC40MIMO\_Ant2\_5270



11AC40MIMO\_Ant1\_5310



11AC40MIMO\_Ant2\_5310



11AC40MIMO\_Ant1\_5510



11AC40MIMO\_Ant2\_5510





11AC40MIMO\_Ant1\_5550



11AC40MIMO\_Ant2\_5550



11AC40MIMO\_Ant1\_5670





11AC40MIMO\_Ant2\_5670



11AC40MIMO\_Ant1\_5755





11AC40MIMO\_Ant2\_5755



11AC40MIMO\_Ant1\_5795



11AC40MIMO\_Ant2\_5795



11AC80MIMO\_Ant1\_5210



11AC80MIMO\_Ant2\_5210





11AC80MIMO\_Ant1\_5290



11AC80MIMO\_Ant2\_5290



11AC80MIMO\_Ant1\_5530





11AC80MIMO\_Ant2\_5530



11AC80MIMO\_Ant1\_5610





11AC80MIMO\_Ant2\_5610



11AC80MIMO\_Ant1\_5775



11AC80MIMO\_Ant2\_5775





## Appendix D: Frequency Stability

### Test Result

Test Mode	Antenna	Voltage						Limit (ppm)	Verdict
		Freq (MHz)	Voltage [Vdc]	Temp (°C)	Deviation (Hz)	Deviation (ppm)			
11AC20MIMO	Ant2	5180	NV	NT	61900	11.949807	20	PASS	
			LV	NT	61900	11.949807	20	PASS	
			HV	NT	61900	11.949807	20	PASS	
		5200	NV	NT	68900	13.250000	20	PASS	
			LV	NT	68900	13.250000	20	PASS	
			HV	NT	68900	13.250000	20	PASS	
		5240	NV	NT	70900	13.530534	20	PASS	
			LV	NT	70900	13.530534	20	PASS	
			HV	NT	70900	13.530534	20	PASS	
		5260	NV	NT	71900	13.669202	20	PASS	
			LV	NT	72900	13.859316	20	PASS	
			HV	NT	71900	13.669202	20	PASS	
		5280	NV	NT	70900	13.428030	20	PASS	
			LV	NT	71900	13.617424	20	PASS	
			HV	NT	70900	13.428030	20	PASS	
		5320	NV	NT	73900	13.890977	20	PASS	
			LV	NT	72900	13.703008	20	PASS	
			HV	NT	72900	13.703008	20	PASS	
		5500	NV	NT	73900	13.436364	20	PASS	
			LV	NT	74900	13.618182	20	PASS	
			HV	NT	73900	13.436364	20	PASS	
		5580	NV	NT	76900	13.781362	20	PASS	
			LV	NT	75900	13.602151	20	PASS	
			HV	NT	75900	13.602151	20	PASS	
		5700	NV	NT	78900	13.842105	20	PASS	
			LV	NT	77900	13.666667	20	PASS	
			HV	NT	77900	13.666667	20	PASS	
		5745	NV	NT	77900	13.559617	20	PASS	
			LV	NT	77900	13.559617	20	PASS	
			HV	NT	76900	13.385553	20	PASS	
		5785	NV	NT	90900	15.713051	20	PASS	
			LV	NT	91900	15.885912	20	PASS	
			HV	NT	90900	15.713051	20	PASS	
		5825	NV	NT	87900	15.090129	20	PASS	
			LV	NT	87900	15.090129	20	PASS	





			HV	NT	87900	15.090129	20	PASS
11AC40MIMO	Ant2	5190	NV	NT	77900	15.009634	20	PASS
			LV	NT	77900	15.009634	20	PASS
			HV	NT	76900	14.816956	20	PASS
		5230	NV	NT	78900	15.086042	20	PASS
			LV	NT	79900	15.277247	20	PASS
			HV	NT	79900	15.277247	20	PASS
		5270	NV	NT	79900	15.161290	20	PASS
			LV	NT	79900	15.161290	20	PASS
			HV	NT	78900	14.971537	20	PASS
		5310	NV	NT	84900	15.988701	20	PASS
			LV	NT	83900	15.800377	20	PASS
			HV	NT	83900	15.800377	20	PASS
		5510	NV	NT	84900	15.408348	20	PASS
			LV	NT	84900	15.408348	20	PASS
			HV	NT	83900	15.226860	20	PASS
		5550	NV	NT	83900	15.117117	20	PASS
			LV	NT	83900	15.117117	20	PASS
			HV	NT	84900	15.297297	20	PASS
		5670	NV	NT	86900	15.326279	20	PASS
			LV	NT	85900	15.149912	20	PASS
			HV	NT	85900	15.149912	20	PASS
5755	NV	NT	87900	15.273675	20	PASS		
	LV	NT	87900	15.273675	20	PASS		
	HV	NT	88900	15.447437	20	PASS		
5795	NV	NT	87900	15.168248	20	PASS		
	LV	NT	86900	14.995686	20	PASS		
	HV	NT	86900	14.995686	20	PASS		
11AC80MIMO	Ant2	5210	NV	NT	78900	15.143954	20	PASS
			LV	NT	78900	15.143954	20	PASS
			HV	NT	79900	15.335893	20	PASS
		5290	NV	NT	79900	15.335893	20	PASS
			LV	NT	78900	14.914934	20	PASS
			HV	NT	78900	14.914934	20	PASS
		5530	NV	NT	83900	15.171790	20	PASS
			LV	NT	83900	15.171790	20	PASS
			HV	NT	83900	15.171790	20	PASS
		5610	NV	NT	76900	13.707665	20	PASS
			LV	NT	77900	13.885918	20	PASS
			HV	NT	76900	13.707665	20	PASS
		5775	NV	NT	77900	13.489177	20	PASS
			LV	NT	78900	13.662338	20	PASS
			HV	NT	78900	13.662338	20	PASS



Temperature								
Test Mode	Antenna	Freq (MHz)	Voltage [Vdc]	Temp (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20MIMO	Ant2	5180	NV	-25	64900	12.528958	20	PASS
			NV	-20	65900	12.722008	20	PASS
			NV	-10	64900	12.528958	20	PASS
			NV	0	66900	12.915058	20	PASS
			NV	10	66900	12.915058	20	PASS
			NV	20	67900	13.108108	20	PASS
			NV	30	67900	13.108108	20	PASS
			NV	40	67900	13.108108	20	PASS
			NV	45	68900	13.301158	20	PASS
		5200	NV	-25	68900	13.250000	20	PASS
			NV	-20	69900	13.442308	20	PASS
			NV	-10	68900	13.250000	20	PASS
			NV	0	69900	13.442308	20	PASS
			NV	10	69900	13.442308	20	PASS
			NV	20	69900	13.442308	20	PASS
			NV	30	69900	13.442308	20	PASS
			NV	40	69900	13.442308	20	PASS
			NV	45	69900	13.442308	20	PASS
		5240	NV	-25	70900	13.530534	20	PASS
			NV	-20	70900	13.530534	20	PASS
			NV	-10	71900	13.721374	20	PASS
			NV	0	71900	13.721374	20	PASS
			NV	10	72900	13.859316	20	PASS
			NV	20	71900	13.721374	20	PASS
			NV	30	71900	13.721374	20	PASS
			NV	40	71900	13.721374	20	PASS
			NV	45	71900	13.721374	20	PASS
		5260	NV	-25	71900	13.669202	20	PASS
			NV	-20	72900	13.859316	20	PASS
			NV	-10	72900	13.859316	20	PASS
			NV	0	70900	13.479087	20	PASS
			NV	10	71900	13.669202	20	PASS
			NV	20	71900	13.669202	20	PASS
			NV	30	70900	13.479087	20	PASS
			NV	40	71900	13.669202	20	PASS
			NV	45	70900	13.479087	20	PASS
		5280	NV	-25	70900	13.428030	20	PASS
			NV	-20	71900	13.617424	20	PASS
			NV	-10	70900	13.428030	20	PASS



			NV	0	71900	13.617424	20	PASS
			NV	10	70900	13.428030	20	PASS
			NV	20	71900	13.617424	20	PASS
			NV	30	71900	13.617424	20	PASS
			NV	40	71900	13.617424	20	PASS
			NV	45	71900	13.617424	20	PASS
		5320	NV	-25	71900	13.515038	20	PASS
			NV	-20	70900	13.327068	20	PASS
			NV	-10	70900	13.327068	20	PASS
			NV	0	71900	13.515038	20	PASS
			NV	10	69900	13.139098	20	PASS
			NV	20	69900	13.139098	20	PASS
			NV	30	70900	13.327068	20	PASS
			NV	40	70900	13.327068	20	PASS
			NV	45	68900	12.951128	20	PASS
		5500	NV	-25	73900	13.436364	20	PASS
			NV	-20	73900	13.436364	20	PASS
			NV	-10	73900	13.436364	20	PASS
			NV	0	75900	13.800000	20	PASS
			NV	10	74900	13.618182	20	PASS
			NV	20	74900	13.618182	20	PASS
			NV	30	74900	13.618182	20	PASS
			NV	40	75900	13.800000	20	PASS
			NV	45	74900	13.618182	20	PASS
		5580	NV	-25	75900	13.602151	20	PASS
			NV	-20	75900	13.602151	20	PASS
			NV	-10	76900	13.781362	20	PASS
			NV	0	76900	13.781362	20	PASS
			NV	10	76900	13.781362	20	PASS
			NV	20	75900	13.602151	20	PASS
			NV	30	75900	13.602151	20	PASS
			NV	40	76900	13.781362	20	PASS
			NV	45	76900	13.781362	20	PASS
		5700	NV	-25	77900	13.666667	20	PASS
			NV	-20	78900	13.842105	20	PASS
			NV	-10	77900	13.666667	20	PASS
			NV	0	77900	13.666667	20	PASS
			NV	10	77900	13.666667	20	PASS
			NV	20	77900	13.666667	20	PASS
			NV	30	76900	13.491228	20	PASS
			NV	40	77900	13.666667	20	PASS
			NV	45	78900	13.842105	20	PASS
		5745	NV	-25	76900	13.385553	20	PASS



			NV	-20	77900	13.559617	20	PASS		
			NV	-10	76900	13.385553	20	PASS		
			NV	0	76900	13.385553	20	PASS		
			NV	10	77900	13.559617	20	PASS		
			NV	20	77900	13.559617	20	PASS		
			NV	30	76900	13.385553	20	PASS		
			NV	40	77900	13.559617	20	PASS		
			NV	45	77900	13.559617	20	PASS		
		5785	NV	-25	90900	15.713051	20	PASS		
			NV	-20	89900	15.540190	20	PASS		
			NV	-10	88900	15.367329	20	PASS		
			NV	0	88900	15.367329	20	PASS		
			NV	10	88900	15.367329	20	PASS		
			NV	20	86900	15.021608	20	PASS		
			NV	30	86900	15.021608	20	PASS		
			NV	40	86900	15.021608	20	PASS		
		5825	NV	-25	86900	14.918455	20	PASS		
			NV	-20	86900	14.918455	20	PASS		
			NV	-10	87900	15.090129	20	PASS		
			NV	0	85900	14.746781	20	PASS		
			NV	10	87900	15.090129	20	PASS		
			NV	20	87900	15.090129	20	PASS		
			NV	30	86900	14.918455	20	PASS		
			NV	40	87900	15.090129	20	PASS		
		11AC40MIMO	Ant2	5190	NV	-25	77900	15.009634	20	PASS
					NV	-20	76900	14.816956	20	PASS
					NV	-10	77900	15.009634	20	PASS
					NV	0	77900	15.009634	20	PASS
					NV	10	77900	15.009634	20	PASS
					NV	20	78900	15.086042	20	PASS
					NV	30	77900	15.009634	20	PASS
					NV	40	77900	15.009634	20	PASS
					NV	45	77900	15.009634	20	PASS
				5230	NV	-25	78900	15.086042	20	PASS
					NV	-20	77900	14.894837	20	PASS
					NV	-10	78900	15.086042	20	PASS
NV	0				78900	15.086042	20	PASS		
NV	10				78900	15.086042	20	PASS		
NV	20				78900	15.086042	20	PASS		
NV	30				79900	15.277247	20	PASS		
NV	40				79900	15.277247	20	PASS		





		NV	45	78900	15.086042	20	PASS
	5270	NV	-25	79900	15.161290	20	PASS
		NV	-20	78900	14.971537	20	PASS
		NV	-10	78900	14.971537	20	PASS
		NV	0	78900	14.971537	20	PASS
		NV	10	79900	15.161290	20	PASS
		NV	20	78900	14.971537	20	PASS
		NV	30	78900	14.971537	20	PASS
		NV	40	78900	14.971537	20	PASS
		NV	45	78900	14.971537	20	PASS
		5310	NV	-25	81900	15.423729	20
	NV		-20	81900	15.423729	20	PASS
	NV		-10	80900	15.235405	20	PASS
	NV		0	80900	15.235405	20	PASS
	NV		10	80900	15.235405	20	PASS
	NV		20	80900	15.235405	20	PASS
	NV		30	79900	15.047081	20	PASS
	NV		40	80900	15.235405	20	PASS
	5510	NV	-25	82900	15.045372	20	PASS
		NV	-20	82900	15.045372	20	PASS
		NV	-10	82900	15.045372	20	PASS
		NV	0	82900	15.045372	20	PASS
		NV	10	83900	15.226860	20	PASS
		NV	20	82900	15.045372	20	PASS
		NV	30	82900	15.045372	20	PASS
		NV	40	82900	15.045372	20	PASS
	5550	NV	-25	83900	15.117117	20	PASS
		NV	-20	85900	15.477477	20	PASS
		NV	-10	84900	15.297297	20	PASS
		NV	0	84900	15.297297	20	PASS
		NV	10	84900	15.297297	20	PASS
		NV	20	84900	15.297297	20	PASS
		NV	30	84900	15.297297	20	PASS
		NV	40	83900	15.117117	20	PASS
	5670	NV	-25	85900	15.149912	20	PASS
		NV	-20	85900	15.149912	20	PASS
		NV	-10	84900	14.973545	20	PASS
		NV	0	84900	14.973545	20	PASS
		NV	10	85900	15.149912	20	PASS
		NV	20	86900	15.326279	20	PASS



			NV	30	85900	15.149912	20	PASS		
			NV	40	84900	14.973545	20	PASS		
			NV	45	84900	14.973545	20	PASS		
		5755	NV	-25	89900	15.621199	20	PASS		
			NV	-20	89900	15.621199	20	PASS		
			NV	-10	88900	15.447437	20	PASS		
			NV	0	88900	15.447437	20	PASS		
			NV	10	87900	15.273675	20	PASS		
			NV	20	87900	15.273675	20	PASS		
			NV	30	87900	15.273675	20	PASS		
			NV	40	86900	15.099913	20	PASS		
			NV	45	87900	15.273675	20	PASS		
			5795	NV	-25	87900	15.168248	20	PASS	
				NV	-20	87900	15.168248	20	PASS	
		NV		-10	87900	15.168248	20	PASS		
		NV		0	87900	15.168248	20	PASS		
		NV		10	88900	15.340811	20	PASS		
		NV		20	88900	15.340811	20	PASS		
		NV		30	86900	14.995686	20	PASS		
		NV		40	87900	15.168248	20	PASS		
		NV	45	86900	14.995686	20	PASS			
		11AC80MIMO	Ant2	5210	NV	-25	78900	15.143954	20	PASS
					NV	-20	78900	15.143954	20	PASS
					NV	-10	78900	15.143954	20	PASS
NV	0				78900	15.143954	20	PASS		
NV	10				79900	15.335893	20	PASS		
NV	20				79900	15.335893	20	PASS		
NV	30				78900	15.143954	20	PASS		
NV	40				78900	15.143954	20	PASS		
NV	45				78900	15.143954	20	PASS		
5290	NV			-25	79900	15.103970	20	PASS		
	NV			-20	80900	15.293006	20	PASS		
	NV			-10	79900	15.103970	20	PASS		
	NV			0	79900	15.103970	20	PASS		
	NV			10	80900	15.293006	20	PASS		
	NV			20	79900	15.103970	20	PASS		
	NV			30	79900	15.103970	20	PASS		
	NV			40	80900	15.293006	20	PASS		
NV	45			79900	15.103970	20	PASS			
5530	NV			-25	80900	14.629295	20	PASS		
	NV			-20	79900	14.448463	20	PASS		
	NV			-10	79900	14.448463	20	PASS		
	NV			0	77900	14.086799	20	PASS		



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			NV	10	77900	14.086799	20	PASS
			NV	20	77900	14.086799	20	PASS
			NV	30	76900	13.905967	20	PASS
			NV	40	76900	13.905967	20	PASS
			NV	45	76900	13.905967	20	PASS
		5610	NV	-25	76900	13.707665	20	PASS
			NV	-20	76900	13.707665	20	PASS
			NV	-10	77900	13.885918	20	PASS
			NV	0	75900	13.529412	20	PASS
			NV	10	76900	13.707665	20	PASS
			NV	20	75900	13.529412	20	PASS
			NV	30	76900	13.707665	20	PASS
			NV	40	76900	13.707665	20	PASS
			NV	45	75900	13.529412	20	PASS
		5775	NV	-25	78900	13.662338	20	PASS
			NV	-20	78900	13.662338	20	PASS
			NV	-10	77900	13.489177	20	PASS
			NV	0	78900	13.662338	20	PASS
			NV	10	77900	13.489177	20	PASS
			NV	20	77900	13.489177	20	PASS
			NV	30	78900	13.662338	20	PASS
			NV	40	78900	13.662338	20	PASS
			NV	45	78900	13.662338	20	PASS