



8.1 Appendix A: Conducted Output Power

Test Result

Band	Channel	PCL	Slot	Power(dBm)	Limit(dBm)	Verdict
GPRS850	128	5	1	32.05	38.5	PASS
GPRS850	128	5	2	30.47	38.5	PASS
GPRS850	128	5	3	29.40	38.5	PASS
GPRS850	128	5	4	27.96	38.5	PASS
GPRS850	190	5	1	32.21	38.5	PASS
GPRS850	190	5	2	29.95	38.5	PASS
GPRS850	190	5	3	28.90	38.5	PASS
GPRS850	190	5	4	27.87	38.5	PASS
GPRS850	251	5	1	32.12	38.5	PASS
GPRS850	251	5	2	29.86	38.5	PASS
GPRS850	251	5	3	28.79	38.5	PASS
GPRS850	251	5	4	27.82	38.5	PASS
GPRS1900	512	0	1	28.66	33	PASS
GPRS1900	512	0	2	28.06	33	PASS
GPRS1900	512	0	3	26.27	33	PASS
GPRS1900	512	0	4	24.52	33	PASS
GPRS1900	661	0	1	28.96	33	PASS
GPRS1900	661	0	2	28.48	33	PASS
GPRS1900	661	0	3	26.81	33	PASS
GPRS1900	661	0	4	25.11	33	PASS
GPRS1900	810	0	1	29.29	33	PASS
GPRS1900	810	0	2	28.92	33	PASS
GPRS1900	810	0	3	27.42	33	PASS
GPRS1900	810	0	4	25.84	33	PASS



EGPRS850	128	8	1	27.16	38.5	PASS
EGPRS850	128	8	2	25.85	38.5	PASS
EGPRS850	128	8	3	24.19	38.5	PASS
EGPRS850	128	8	4	23.93	38.5	PASS
EGPRS850	190	8	1	26.90	38.5	PASS
EGPRS850	190	8	2	25.83	38.5	PASS
EGPRS850	190	8	3	24.02	38.5	PASS
EGPRS850	190	8	4	23.85	38.5	PASS
EGPRS850	251	8	1	26.48	38.5	PASS
EGPRS850	251	8	2	25.85	38.5	PASS
EGPRS850	251	8	3	24.42	38.5	PASS
EGPRS850	251	8	4	23.20	38.5	PASS
EGPRS1900	512	2	1	24.69	33	PASS
EGPRS1900	512	2	2	24.25	33	PASS
EGPRS1900	512	2	3	22.79	33	PASS
EGPRS1900	512	2	4	21.30	33	PASS
EGPRS1900	661	2	1	25.99	33	PASS
EGPRS1900	661	2	2	25.31	33	PASS
EGPRS1900	661	2	3	23.71	33	PASS
EGPRS1900	661	2	4	22.59	33	PASS
EGPRS1900	810	2	1	26.32	33	PASS
EGPRS1900	810	2	2	25.99	33	PASS
EGPRS1900	810	2	3	24.61	33	PASS
EGPRS1900	810	2	4	23.24	33	PASS



8.2 Appendix B: Peak-to-Average Ratio

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
GPRS850	128	2.64	13	PASS
GPRS850	190	2.64	13	PASS
GPRS850	251	2.64	13	PASS
EGPRS850	128	5.08	13	PASS
EGPRS850	190	5.06	13	PASS
EGPRS850	251	5.16	13	PASS
GPRS1900	512	2.67	13	PASS
GPRS1900	661	2.66	13	PASS
GPRS1900	810	2.65	13	PASS
EGPRS1900	512	5.16	13	PASS
EGPRS1900	661	5.02	13	PASS
EGPRS1900	810	4.87	13	PASS



Test Graphs



GPRS850_128



GPRS850_190



GPRS850_251



Report No.:

CHTEW19070065

Issued:

2019-07-17



EGPRS850_128



EGPRS850_190



EGPRS850_251

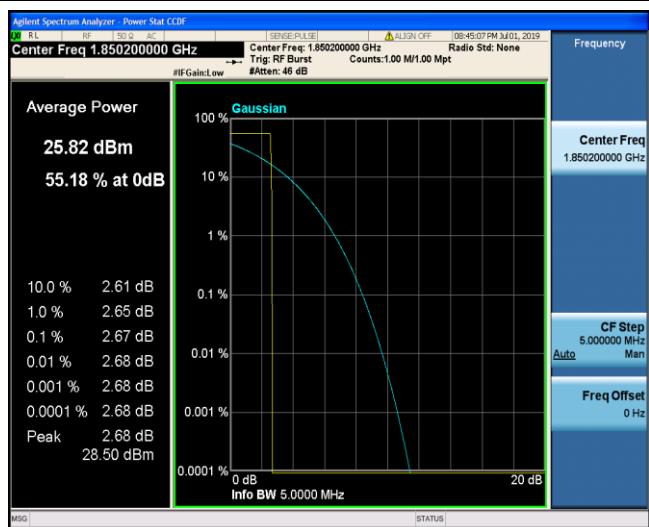


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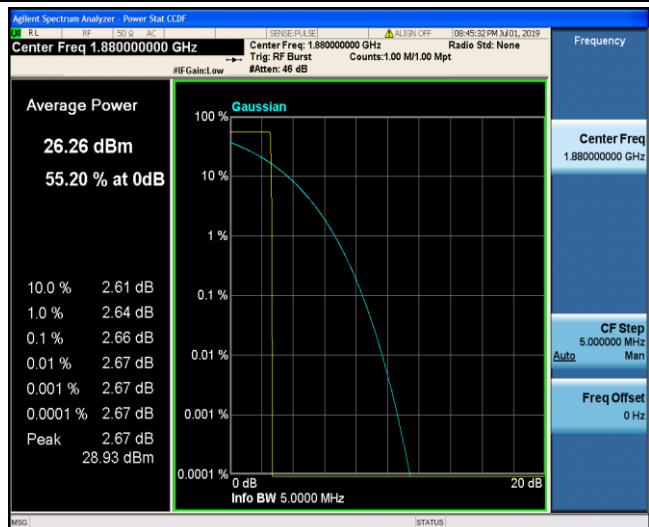
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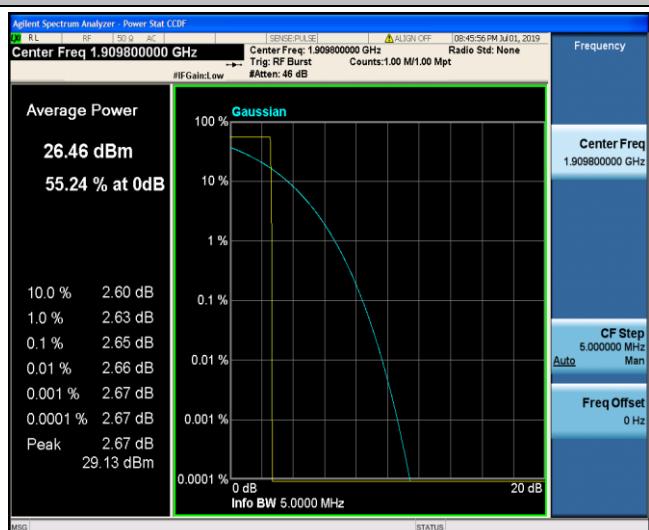
2019-07-17



GPRS1900_512



GPRS1900_661



GPRS1900_810



Report No.:

CHTEW19070065

Issued:

2019-07-17



EGPRS1900_512



EGPRS1900_661



EGPRS1900_810



8.3 Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
GPRS850	128	244.89	317.8	---	PASS
GPRS850	190	243.99	321.1	---	PASS
GPRS850	251	243.25	312.5	---	PASS
EGPRS850	128	262.13	327.9	---	PASS
EGPRS850	190	257.28	329.5	---	PASS
EGPRS850	251	260.88	334.4	---	PASS
GPRS1900	512	245.67	318.5	---	PASS
GPRS1900	661	244.95	318.5	---	PASS
GPRS1900	810	245.71	316.7	---	PASS
EGPRS1900	512	251.21	326.1	---	PASS
EGPRS1900	661	255.70	324.9	---	PASS
EGPRS1900	810	259.13	338.9	---	PASS



Test Graphs



GPRS850_128



GPRS850_190



GPRS850_251



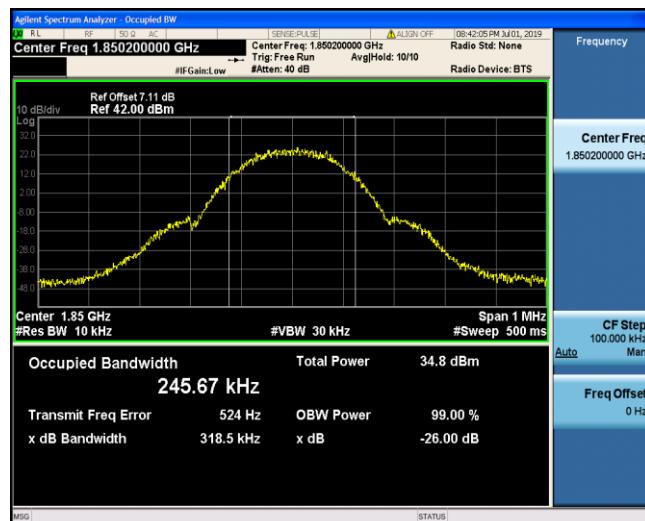
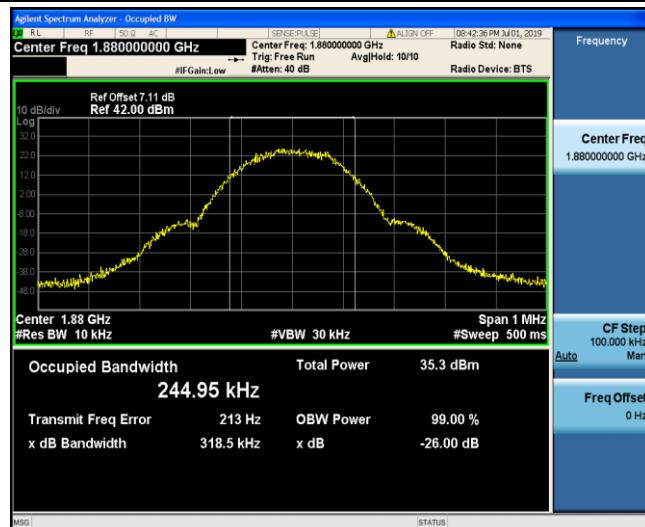
EGPRS850_128



EGPRS850_190



EGPRS850_251

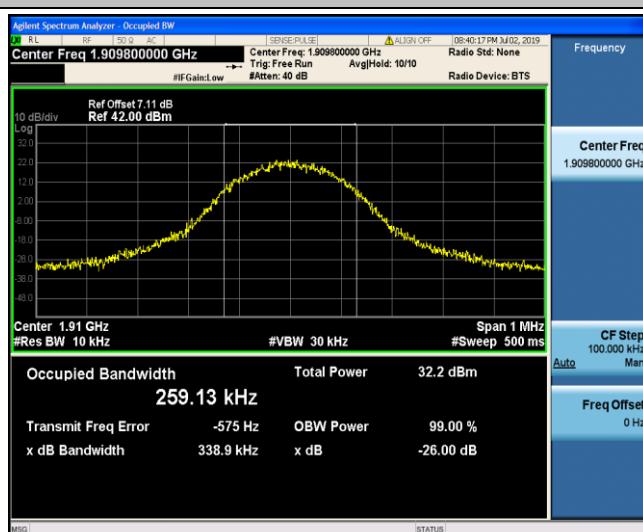
**GPRS1900_512****GPRS1900_661****GPRS1900_810**



EGPRS1900_512



EGPRS1900_661



EGPRS1900_810



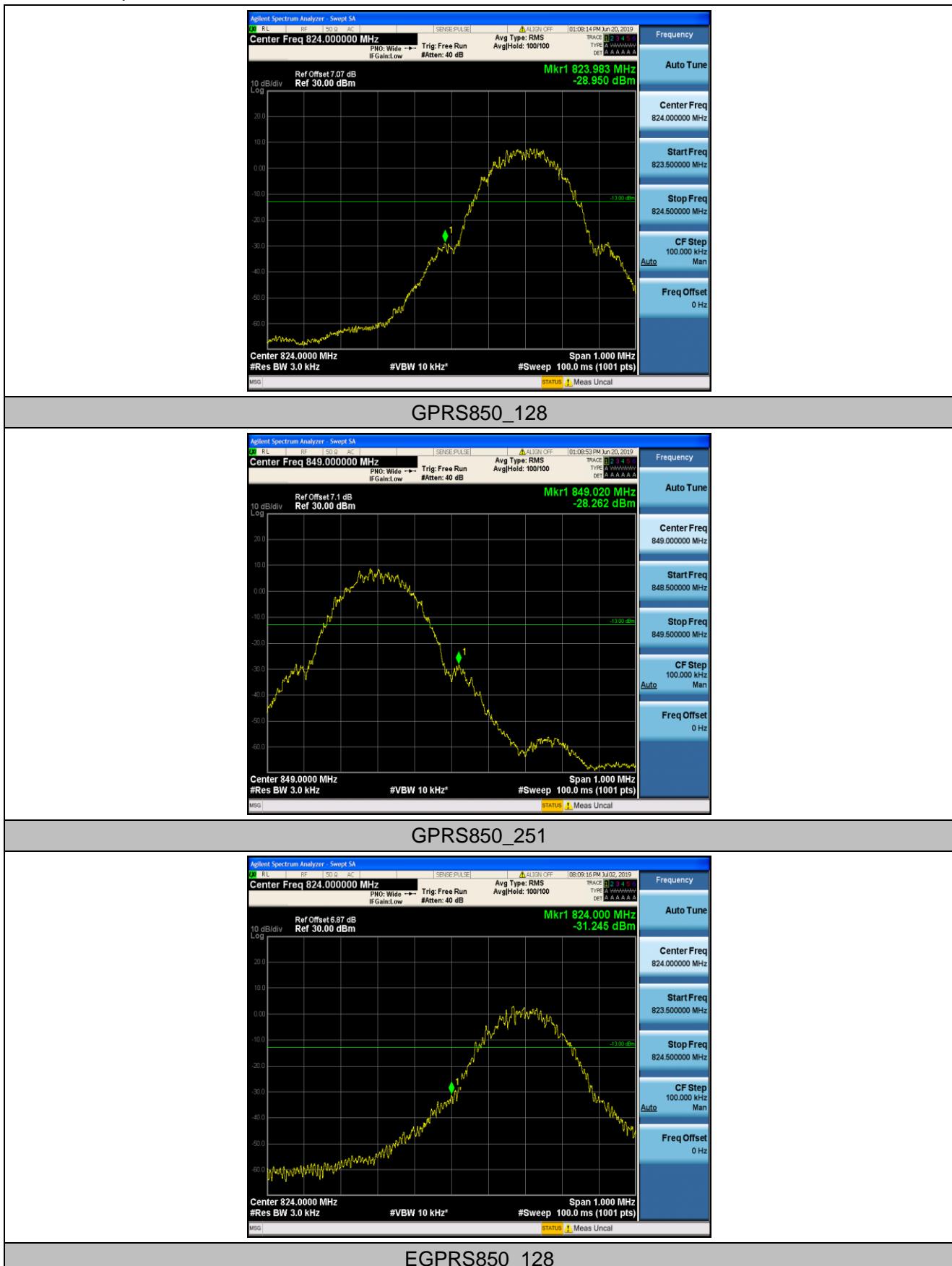
8.4 Appendix D: Band Edge

Test Result

Band	Channel	Value(dBm)	Limit(dBm)	Verdict
GPRS850	128	-28.95	-13	PASS
GPRS850	251	-28.26	-13	PASS
EGPRS850	128	-31.25	-13	PASS
EGPRS850	251	-31.59	-13	PASS
GPRS1900	512	-31.25	-13	PASS
GPRS1900	810	-28.70	-13	PASS
EGPRS1900	512	-40.39	-13	PASS
EGPRS1900	810	-33.72	-13	PASS



Test Graphs





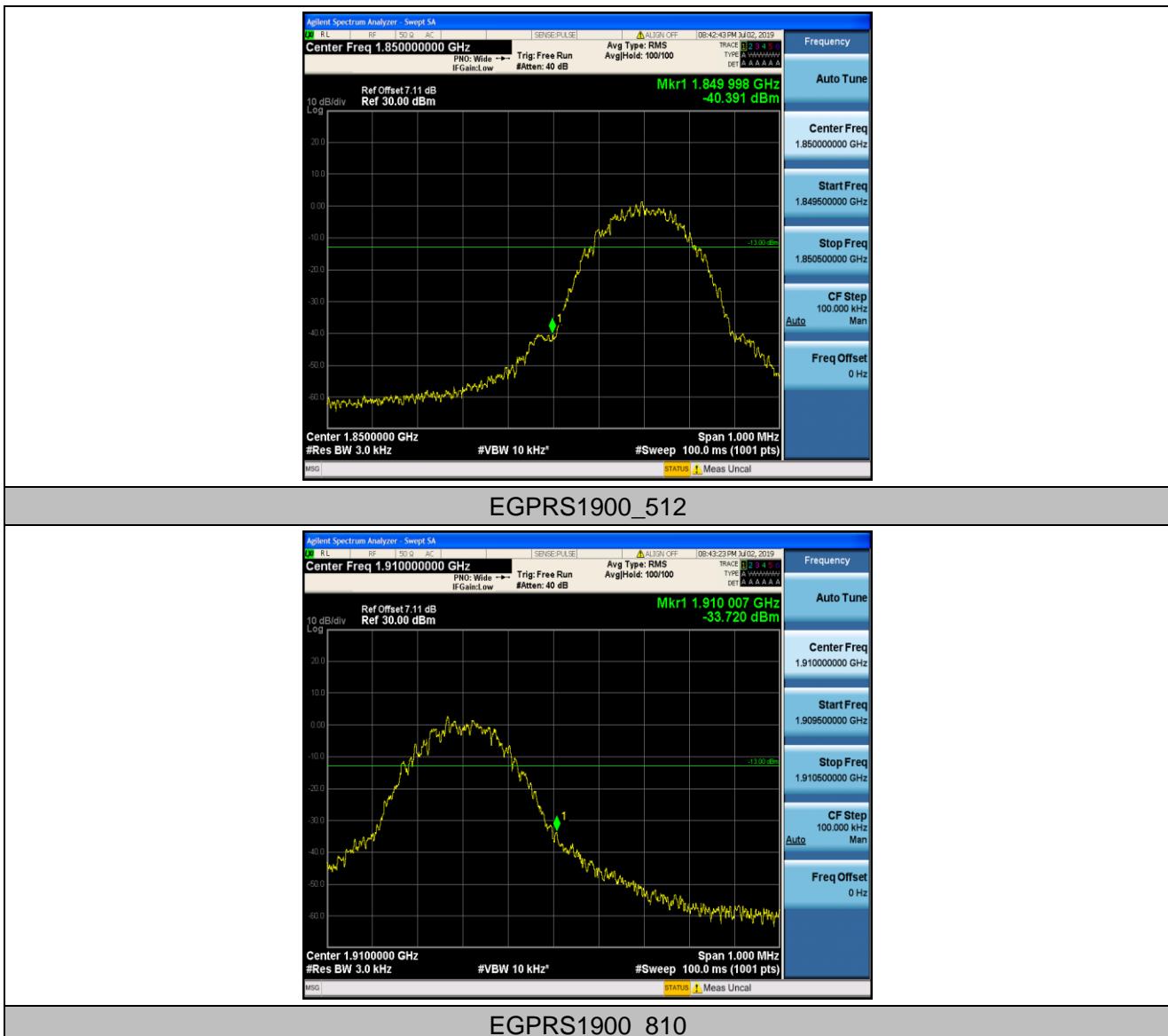
EGPRS850_251



GPRS1900_512



GPRS1900_810





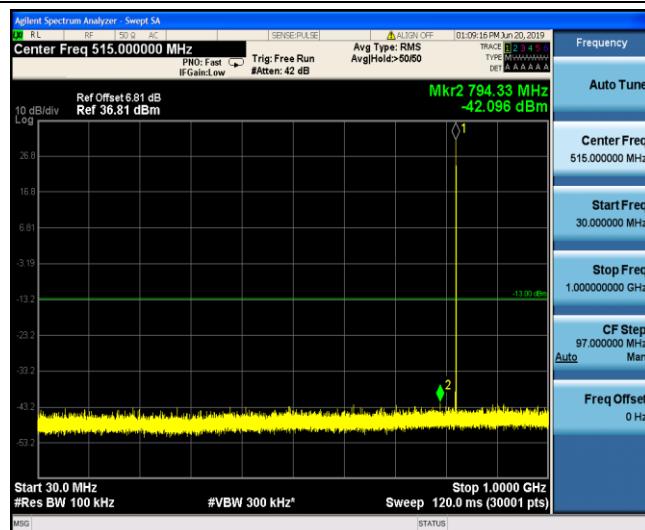
8.5 Appendix E: Conducted Spurious Emission

Test Result

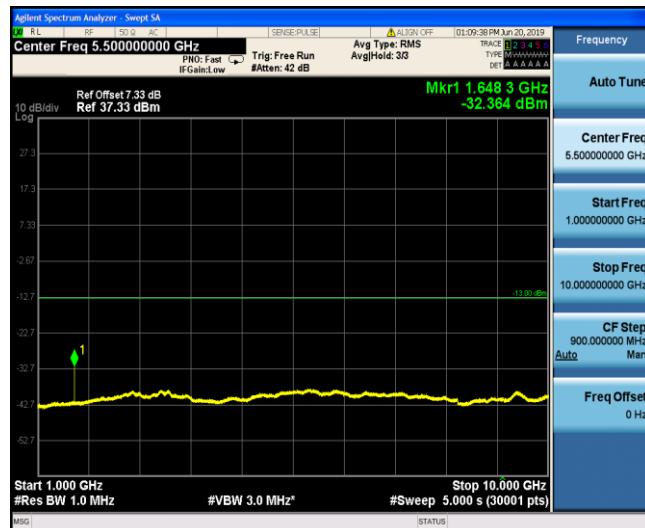
Band	Channel	Frequency Rang(Mhz)	Value(dBm)	Limit(dBm)	Verdict
GPRS850	128	30~1000	-42.10	-13	PASS
GPRS850	128	1000~10000	-32.36	-13	PASS
GPRS850	190	30~1000	-42.56	-13	PASS
GPRS850	190	1000~10000	-37.56	-13	PASS
GPRS850	251	30~1000	-42.23	-13	PASS
GPRS850	251	1000~10000	-37.67	-13	PASS
EGPRS850	128	30~1000	-42.19	-13	PASS
EGPRS850	128	1000~10000	-38.51	-13	PASS
EGPRS850	190	30~1000	-42.20	-13	PASS
EGPRS850	190	1000~10000	-38.51	-13	PASS
EGPRS850	251	30~1000	-41.95	-13	PASS
EGPRS850	251	1000~10000	-38.49	-13	PASS
GPRS1900	512	30~1000	-42.44	-13	PASS
GPRS1900	512	1000~20000	-31.87	-13	PASS
GPRS1900	661	30~1000	-42.34	-13	PASS
GPRS1900	661	1000~20000	-31.76	-13	PASS
GPRS1900	810	30~1000	-42.07	-13	PASS
GPRS1900	810	1000~20000	-31.76	-13	PASS
EGPRS1900	512	30~1000	-42.34	-13	PASS
EGPRS1900	512	1000~20000	-31.96	-13	PASS
EGPRS1900	661	30~1000	-42.33	-13	PASS
EGPRS1900	661	1000~20000	-31.77	-13	PASS
EGPRS1900	810	30~1000	-42.15	-13	PASS
EGPRS1900	810	1000~20000	-31.90	-13	PASS



Test Graphs



GPRS850_128



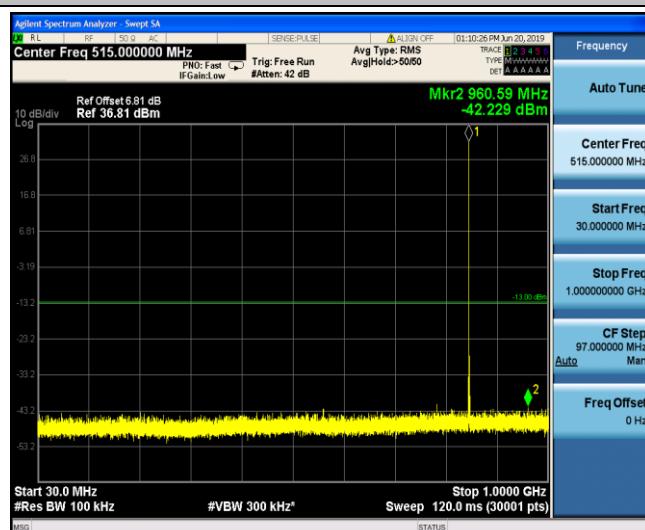
GPRS850_128



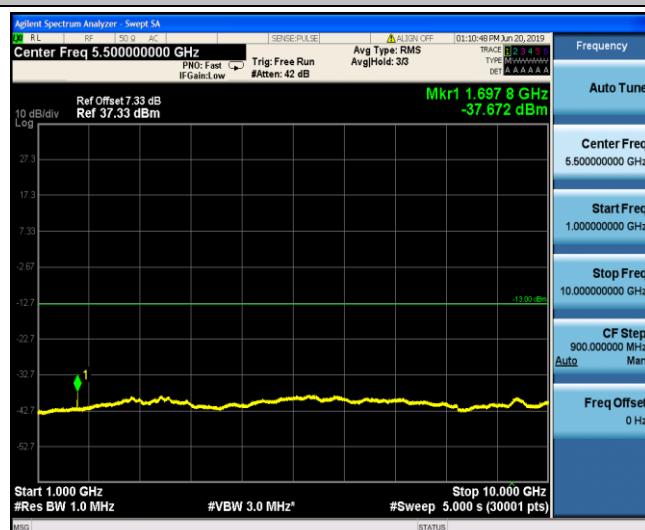
GPRS850_190



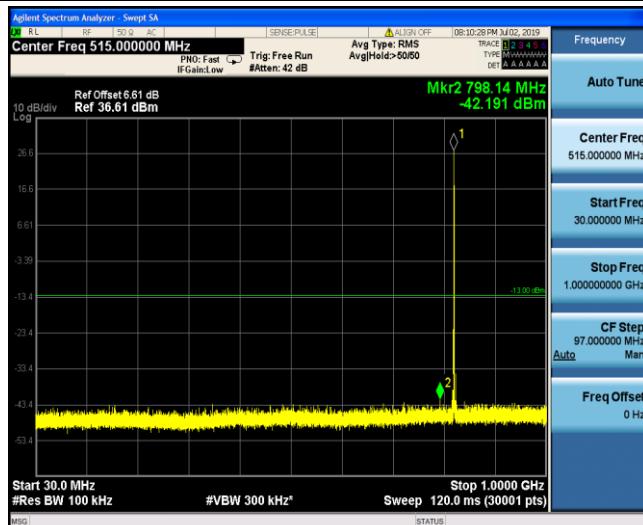
GPRS850_190



GPRS850_251



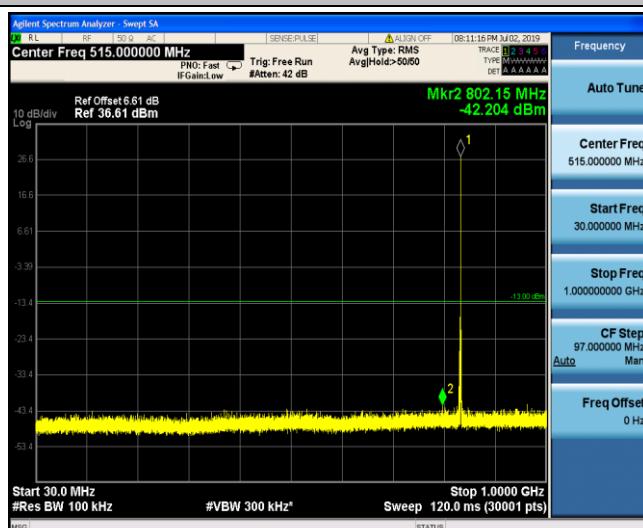
GPRS850_251



EGPRS850_128



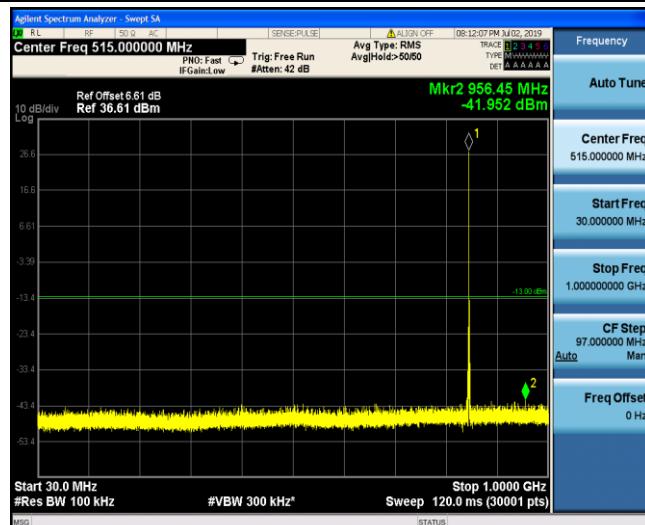
EGPRS850_128



EGPRS850_190



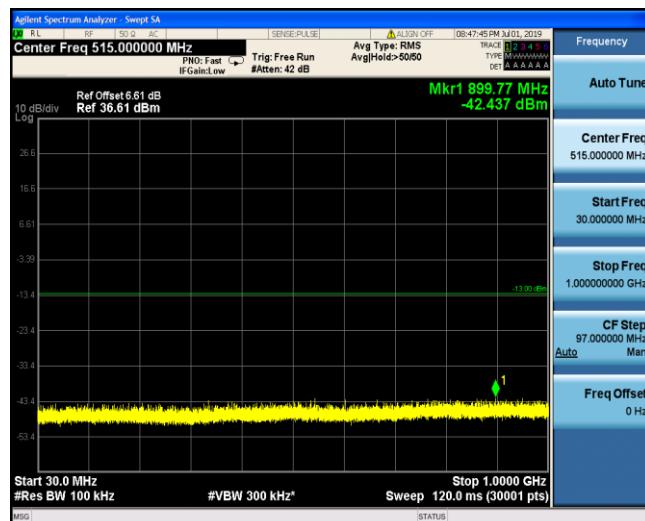
EGPRS850_190



EGPRS850_251



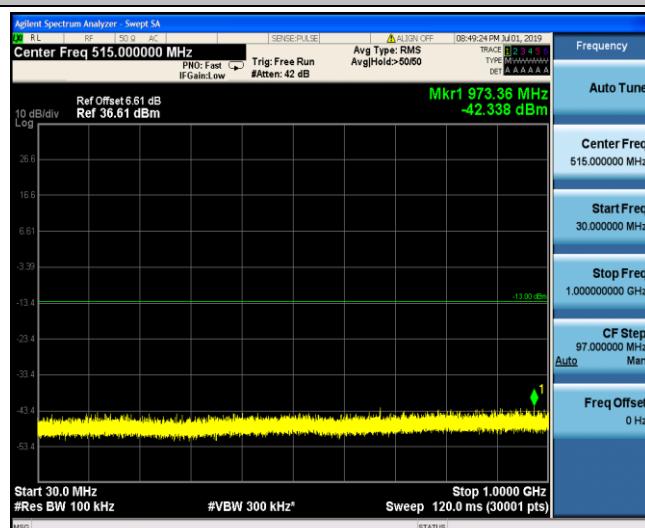
EGPRS850_251



GPRS1900_512



GPRS1900_512



GPRS1900_661



GPRS1900_661



GPRS1900_810



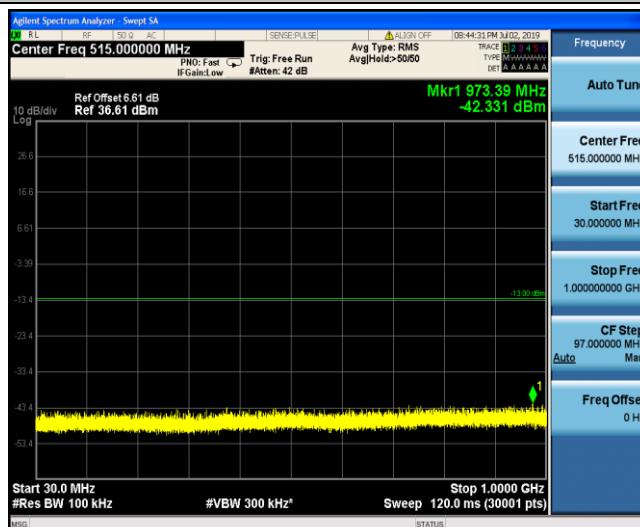
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EGPRS1900_512



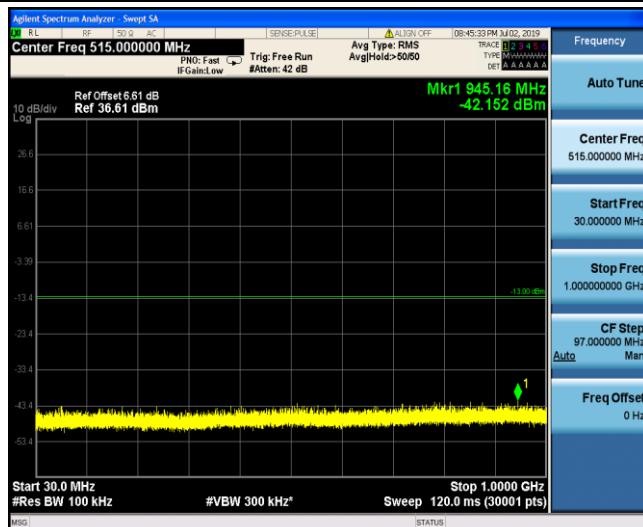
EGPRS1900_512



EGPRS1900_661



EGPRS1900_661



EGPRS1900_810



EGPRS1900_810



8.6 Appendix F: Frequency Stability

Test Result

Band	Channel	Voltage						Verdict
		Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)		
GPRS850	128	VL	TN	-0.77	-0.000940	2.5	PASS	
GPRS850	128	VN	TN	-2.74	-0.003330	2.5	PASS	
GPRS850	128	VH	TN	-3.33	-0.004035	2.5	PASS	
GPRS850	190	VL	TN	-4.78	-0.005712	2.5	PASS	
GPRS850	190	VN	TN	-6.13	-0.007332	2.5	PASS	
GPRS850	190	VH	TN	-8.81	-0.010536	2.5	PASS	
GPRS850	251	VL	TN	-4.88	-0.005744	2.5	PASS	
GPRS850	251	VN	TN	-16.95	-0.019969	2.5	PASS	
GPRS850	251	VH	TN	-7.46	-0.008787	2.5	PASS	
EGPRS850	128	VL	TN	-2.84	-0.003447	2.5	PASS	
EGPRS850	128	VN	TN	-3.10	-0.003761	2.5	PASS	
EGPRS850	128	VH	TN	-0.26	-0.000313	2.5	PASS	
EGPRS850	190	VL	TN	-3.42	-0.004091	2.5	PASS	
EGPRS850	190	VN	TN	1.00	0.001196	2.5	PASS	
EGPRS850	190	VH	TN	-2.49	-0.002972	2.5	PASS	
EGPRS850	251	VL	TN	2.65	0.003119	2.5	PASS	
EGPRS850	251	VN	TN	-4.49	-0.005287	2.5	PASS	
EGPRS850	251	VH	TN	1.32	0.001560	2.5	PASS	
GPRS1900	512	VL	TN	9.72	0.005252	2.5	PASS	
GPRS1900	512	VN	TN	24.83	0.013419	2.5	PASS	
GPRS1900	512	VH	TN	16.50	0.008917	2.5	PASS	
GPRS1900	661	VL	TN	18.27	0.009720	2.5	PASS	
GPRS1900	661	VN	TN	4.29	0.002284	2.5	PASS	
GPRS1900	661	VH	TN	9.62	0.005118	2.5	PASS	
GPRS1900	810	VL	TN	14.69	0.007692	2.5	PASS	
GPRS1900	810	VN	TN	15.76	0.008250	2.5	PASS	
GPRS1900	810	VH	TN	14.66	0.007675	2.5	PASS	
EGPRS1900	512	VL	TN	13.27	0.007172	2.5	PASS	
EGPRS1900	512	VN	TN	15.14	0.008184	2.5	PASS	
EGPRS1900	512	VH	TN	18.47	0.009981	2.5	PASS	
EGPRS1900	661	VL	TN	15.76	0.008381	2.5	PASS	
EGPRS1900	661	VN	TN	14.92	0.007934	2.5	PASS	
EGPRS1900	661	VH	TN	18.27	0.009720	2.5	PASS	
EGPRS1900	810	VL	TN	15.24	0.007979	2.5	PASS	
EGPRS1900	810	VN	TN	19.69	0.010312	2.5	PASS	
EGPRS1900	810	VH	TN	8.78	0.004598	2.5	PASS	



Band	Channel	Voltage (Vdc)	Temperature				
			Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS850	128	VN	-30	-1.26	-0.001528	2.5	PASS
GPRS850	128	VN	-20	1.16	0.001410	2.5	PASS
GPRS850	128	VN	-10	-7.36	-0.008931	2.5	PASS
GPRS850	128	VN	0	-5.49	-0.006659	2.5	PASS
GPRS850	128	VN	10	8.01	0.009715	2.5	PASS
GPRS850	128	VN	20	3.81	0.004622	2.5	PASS
GPRS850	128	VN	30	-0.23	-0.000274	2.5	PASS
GPRS850	128	VN	40	0.65	0.000783	2.5	PASS
GPRS850	128	VN	50	7.23	0.008775	2.5	PASS
GPRS850	190	VN	-30	-11.85	-0.014163	2.5	PASS
GPRS850	190	VN	-20	-3.26	-0.003898	2.5	PASS
GPRS850	190	VN	-10	-10.56	-0.012619	2.5	PASS
GPRS850	190	VN	0	-9.01	-0.010767	2.5	PASS
GPRS850	190	VN	10	-1.13	-0.001351	2.5	PASS
GPRS850	190	VN	20	-4.04	-0.004824	2.5	PASS
GPRS850	190	VN	30	2.20	0.002624	2.5	PASS
GPRS850	190	VN	40	-1.16	-0.001389	2.5	PASS
GPRS850	190	VN	50	0.71	0.000849	2.5	PASS
GPRS850	251	VN	-30	-9.07	-0.010688	2.5	PASS
GPRS850	251	VN	-20	-10.88	-0.012818	2.5	PASS
GPRS850	251	VN	-10	-11.11	-0.013085	2.5	PASS
GPRS850	251	VN	0	-6.62	-0.007798	2.5	PASS
GPRS850	251	VN	10	-12.20	-0.014378	2.5	PASS
GPRS850	251	VN	20	-4.97	-0.005858	2.5	PASS
GPRS850	251	VN	30	-8.04	-0.009471	2.5	PASS
GPRS850	251	VN	40	-4.84	-0.005706	2.5	PASS
GPRS850	251	VN	50	-7.78	-0.009167	2.5	PASS
EGPRS850	128	VN	-30	-0.29	-0.000353	2.5	PASS
EGPRS850	128	VN	-20	-1.71	-0.002076	2.5	PASS
EGPRS850	128	VN	-10	-1.58	-0.001919	2.5	PASS
EGPRS850	128	VN	0	-0.45	-0.000548	2.5	PASS
EGPRS850	128	VN	10	4.13	0.005014	2.5	PASS
EGPRS850	128	VN	20	1.10	0.001332	2.5	PASS
EGPRS850	128	VN	30	4.88	0.005915	2.5	PASS
EGPRS850	128	VN	40	4.39	0.005327	2.5	PASS
EGPRS850	128	VN	50	1.52	0.001841	2.5	PASS
EGPRS850	190	VN	-30	2.71	0.003242	2.5	PASS
EGPRS850	190	VN	-20	-1.58	-0.001891	2.5	PASS
EGPRS850	190	VN	-10	-5.00	-0.005982	2.5	PASS
EGPRS850	190	VN	0	-13.17	-0.015745	2.5	PASS
EGPRS850	190	VN	10	-4.75	-0.005673	2.5	PASS
EGPRS850	190	VN	20	-9.69	-0.011578	2.5	PASS
EGPRS850	190	VN	30	3.39	0.004052	2.5	PASS
EGPRS850	190	VN	40	-12.40	-0.014819	2.5	PASS
EGPRS850	190	VN	50	1.94	0.002316	2.5	PASS
EGPRS850	251	VN	-30	-1.71	-0.002016	2.5	PASS
EGPRS850	251	VN	-20	-5.07	-0.005972	2.5	PASS
EGPRS850	251	VN	-10	0.03	0.000038	2.5	PASS
EGPRS850	251	VN	0	-4.75	-0.005591	2.5	PASS
EGPRS850	251	VN	10	2.84	0.003347	2.5	PASS
EGPRS850	251	VN	20	1.65	0.001940	2.5	PASS



EGPRS850	251	VN	30	-1.78	-0.002092	2.5	PASS
EGPRS850	251	VN	40	7.01	0.008254	2.5	PASS
EGPRS850	251	VN	50	9.17	0.010803	2.5	PASS
GPRS1900	512	VN	-30	16.53	0.008934	2.5	PASS
GPRS1900	512	VN	-20	23.60	0.012756	2.5	PASS
GPRS1900	512	VN	-10	18.18	0.009824	2.5	PASS
GPRS1900	512	VN	0	19.47	0.010522	2.5	PASS
GPRS1900	512	VN	10	19.76	0.010679	2.5	PASS
GPRS1900	512	VN	20	28.51	0.015408	2.5	PASS
GPRS1900	512	VN	30	36.32	0.019631	2.5	PASS
GPRS1900	512	VN	40	22.99	0.012424	2.5	PASS
GPRS1900	512	VN	50	16.30	0.008812	2.5	PASS
GPRS1900	661	VN	-30	13.43	0.007144	2.5	PASS
GPRS1900	661	VN	-20	15.88	0.008449	2.5	PASS
GPRS1900	661	VN	-10	7.17	0.003812	2.5	PASS
GPRS1900	661	VN	0	9.36	0.004980	2.5	PASS
GPRS1900	661	VN	10	11.78	0.006268	2.5	PASS
GPRS1900	661	VN	20	21.11	0.011231	2.5	PASS
GPRS1900	661	VN	30	25.02	0.013309	2.5	PASS
GPRS1900	661	VN	40	15.17	0.008071	2.5	PASS
GPRS1900	661	VN	50	21.60	0.011489	2.5	PASS
GPRS1900	810	VN	-30	16.85	0.008825	2.5	PASS
GPRS1900	810	VN	-20	18.37	0.009619	2.5	PASS
GPRS1900	810	VN	-10	14.04	0.007354	2.5	PASS
GPRS1900	810	VN	0	16.14	0.008453	2.5	PASS
GPRS1900	810	VN	10	20.21	0.010583	2.5	PASS
GPRS1900	810	VN	20	23.89	0.012510	2.5	PASS
GPRS1900	810	VN	30	27.28	0.014285	2.5	PASS
GPRS1900	810	VN	40	13.79	0.007219	2.5	PASS
GPRS1900	810	VN	50	16.66	0.008723	2.5	PASS
EGPRS1900	512	VN	-30	18.69	0.010104	2.5	PASS
EGPRS1900	512	VN	-20	26.05	0.014082	2.5	PASS
EGPRS1900	512	VN	-10	22.18	0.011988	2.5	PASS
EGPRS1900	512	VN	0	21.08	0.011395	2.5	PASS
EGPRS1900	512	VN	10	19.40	0.010487	2.5	PASS
EGPRS1900	512	VN	20	16.56	0.008952	2.5	PASS
EGPRS1900	512	VN	30	30.51	0.016490	2.5	PASS
EGPRS1900	512	VN	40	37.77	0.020416	2.5	PASS
EGPRS1900	512	VN	50	39.42	0.021306	2.5	PASS
EGPRS1900	661	VN	-30	17.79	0.009463	2.5	PASS
EGPRS1900	661	VN	-20	20.05	0.010665	2.5	PASS
EGPRS1900	661	VN	-10	15.92	0.008466	2.5	PASS
EGPRS1900	661	VN	0	7.23	0.003847	2.5	PASS
EGPRS1900	661	VN	10	21.21	0.011283	2.5	PASS
EGPRS1900	661	VN	20	11.95	0.006354	2.5	PASS
EGPRS1900	661	VN	30	6.36	0.003383	2.5	PASS
EGPRS1900	661	VN	40	30.22	0.016074	2.5	PASS
EGPRS1900	661	VN	50	42.17	0.022428	2.5	PASS
EGPRS1900	810	VN	-30	15.30	0.008013	2.5	PASS
EGPRS1900	810	VN	-20	13.24	0.006931	2.5	PASS
EGPRS1900	810	VN	-10	18.53	0.009704	2.5	PASS
EGPRS1900	810	VN	0	19.21	0.010059	2.5	PASS
EGPRS1900	810	VN	10	14.50	0.007591	2.5	PASS
EGPRS1900	810	VN	20	13.75	0.007202	2.5	PASS
EGPRS1900	810	VN	30	18.27	0.009568	2.5	PASS



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EGPRS1900	810	VN	40	24.38	0.012764	2.5	PASS
EGPRS1900	810	VN	50	31.25	0.016364	2.5	PASS

-----End of the Report -----