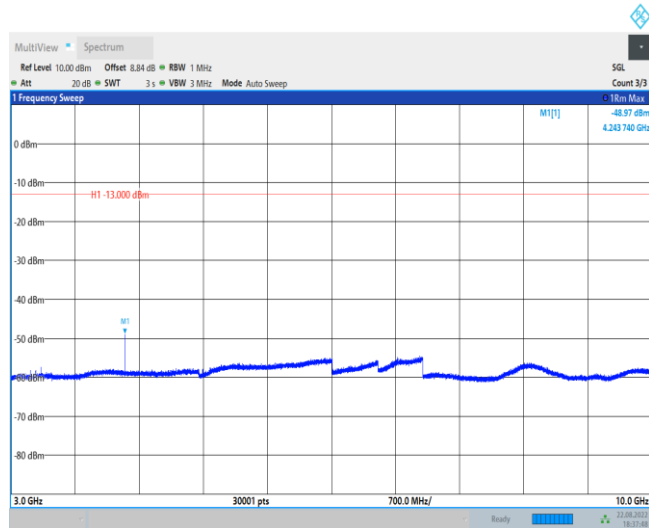
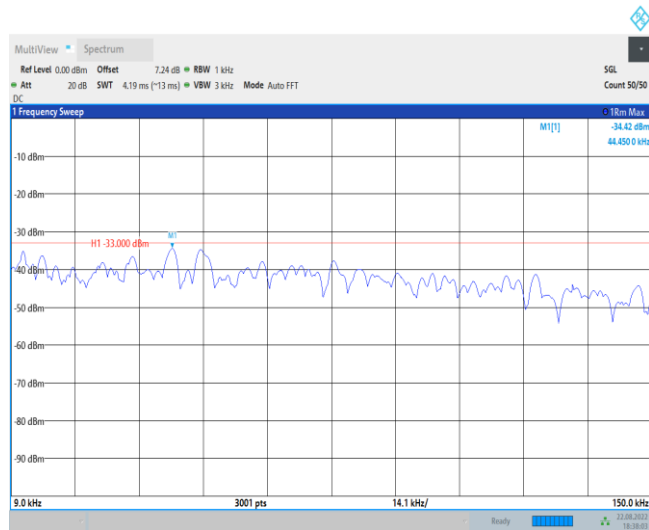


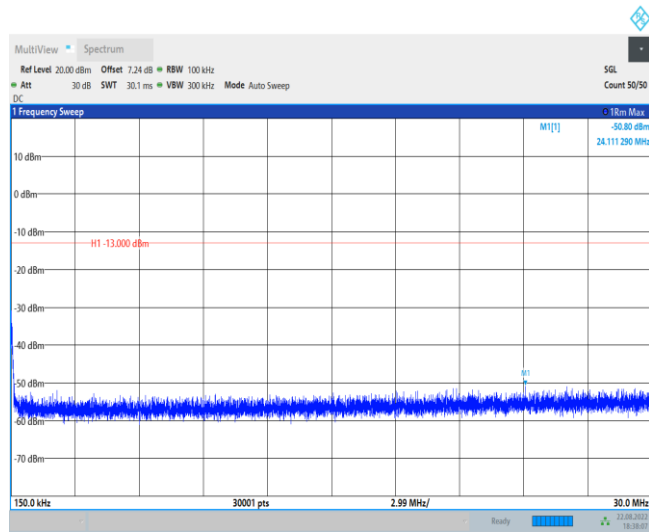
EGPRS850-190-3000~10000MHz



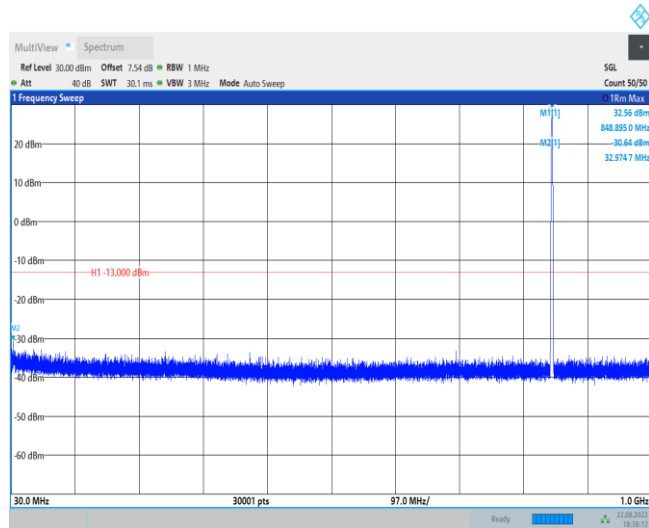
EGPRS850-251-0.009~0.15MHz



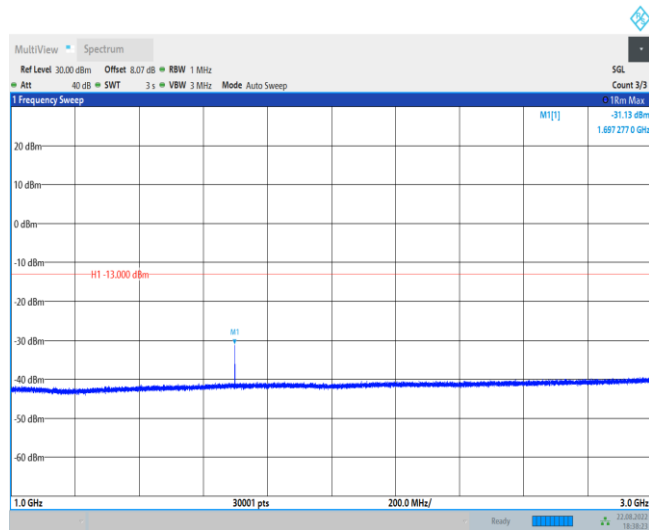
EGPRS850-251-0.15~30MHz



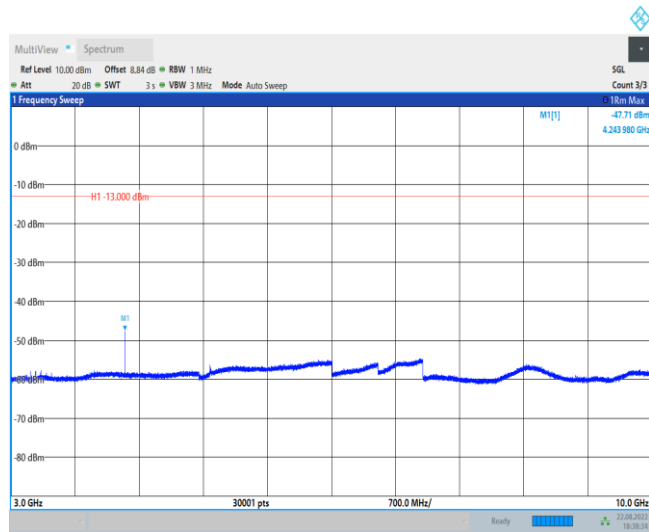
EGPRS850-251-30~1000MHz



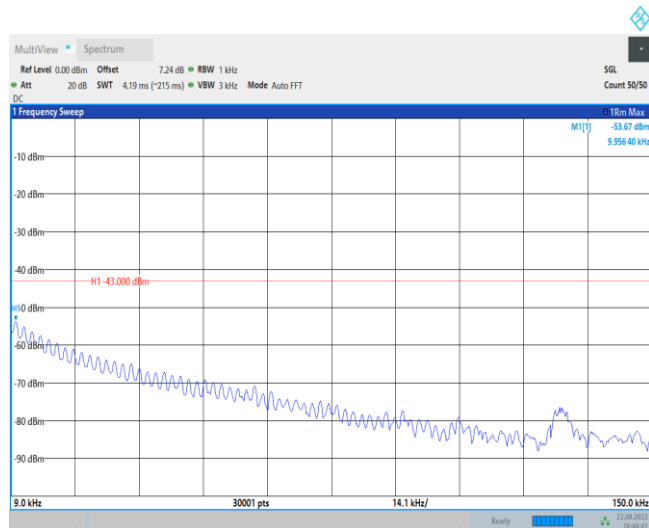
EGPRS850-251-1000~3000MHz



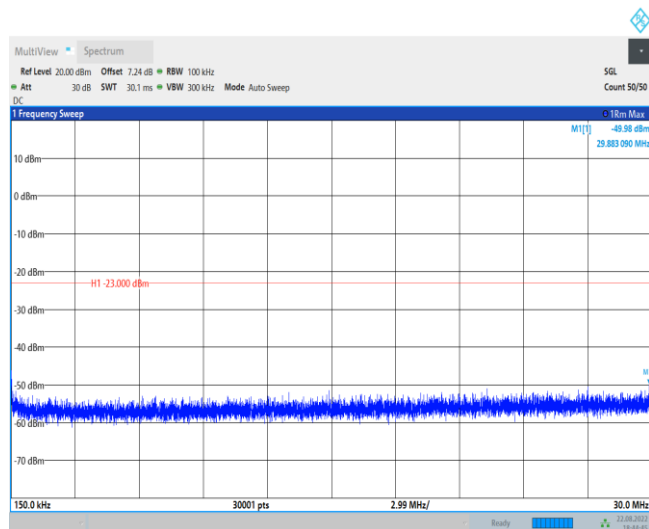
EGPRS850-251-3000~10000MHz



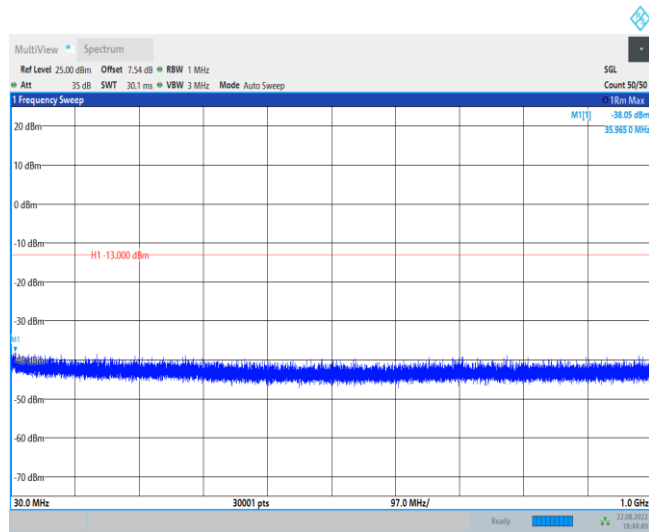
GSM1900-512-0.009~0.15MHz



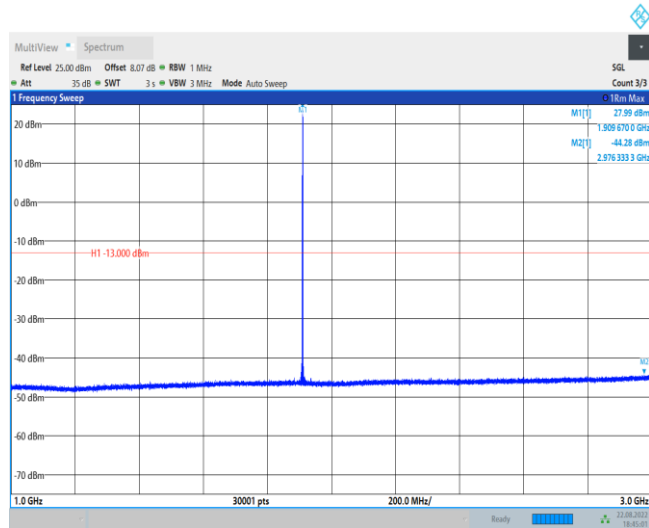
GSM1900-512-0.15~30MHz



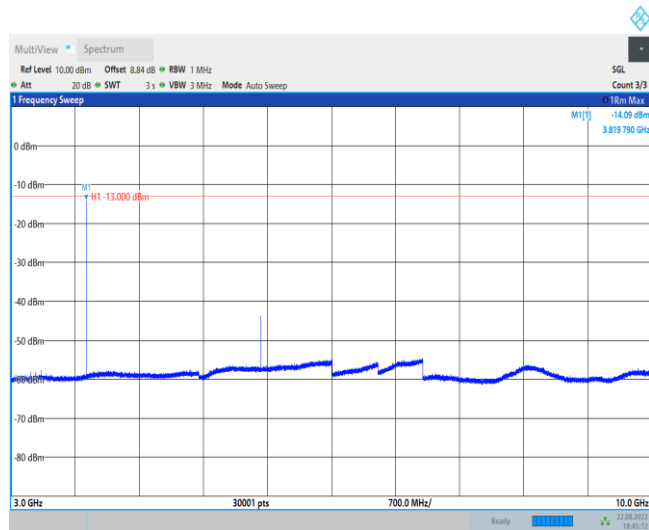
GSM1900-512-30~1000MHz



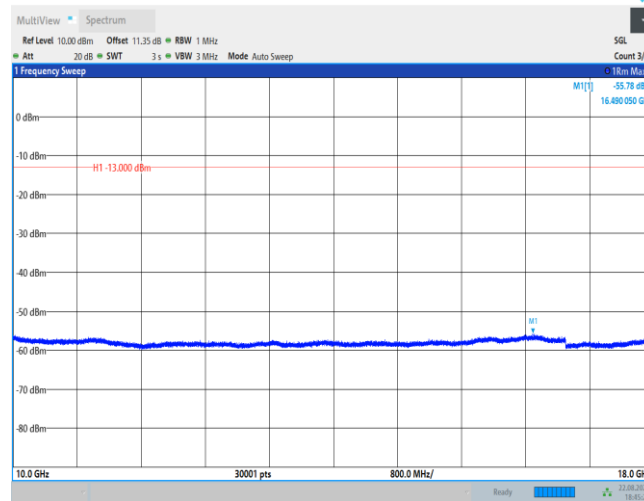
GSM1900-512-1000~3000MHz



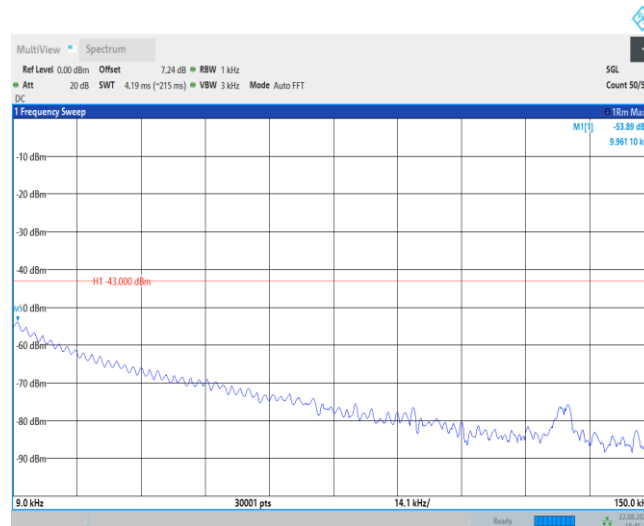
GSM1900-512-3000~10000MHz



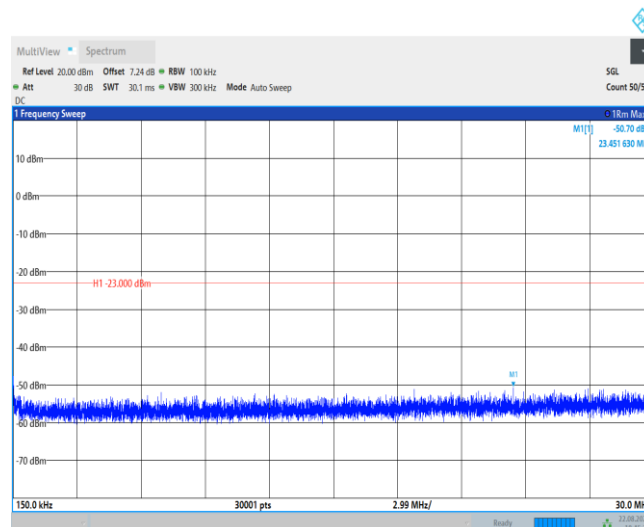
GSM1900-512-10000~18000MHz



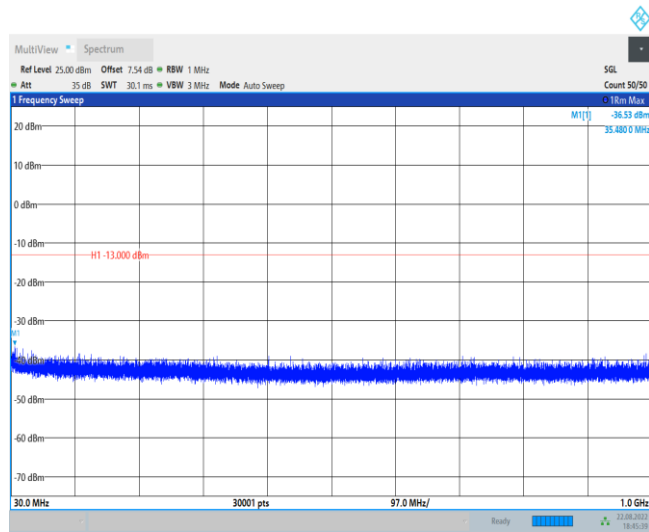
GSM1900-661-0.009~0.15MHz



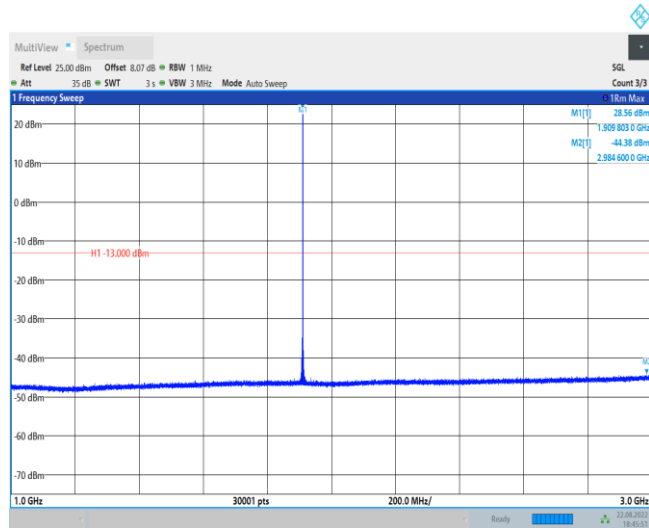
GSM1900-661-0.15~30MHz



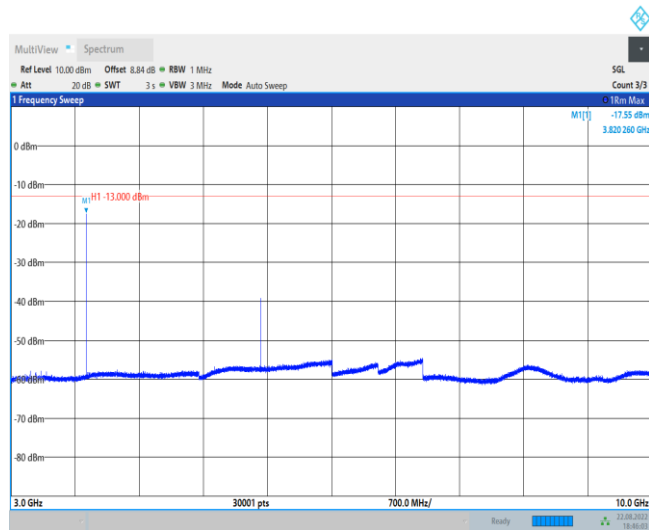
GSM1900-661-30~1000MHz



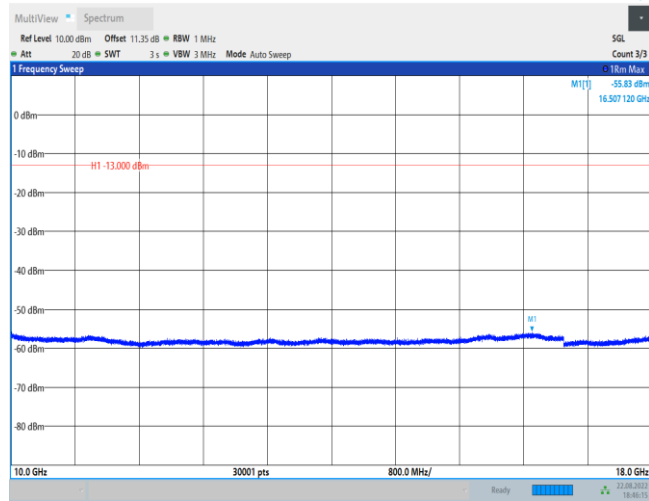
GSM1900-661-1000~3000MHz



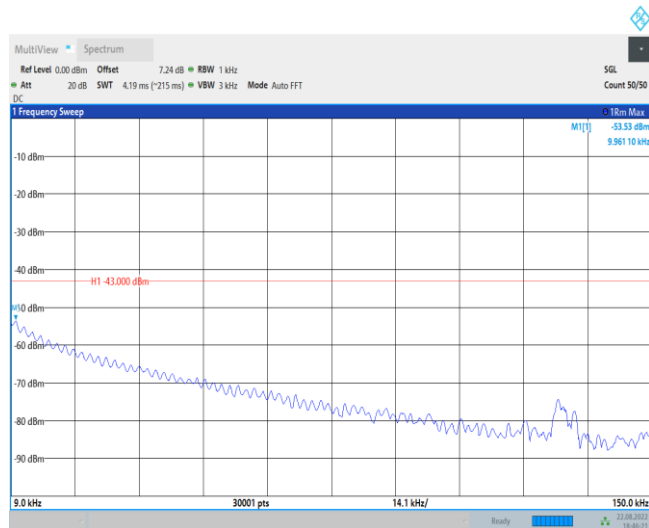
GSM1900-661-3000~10000MHz



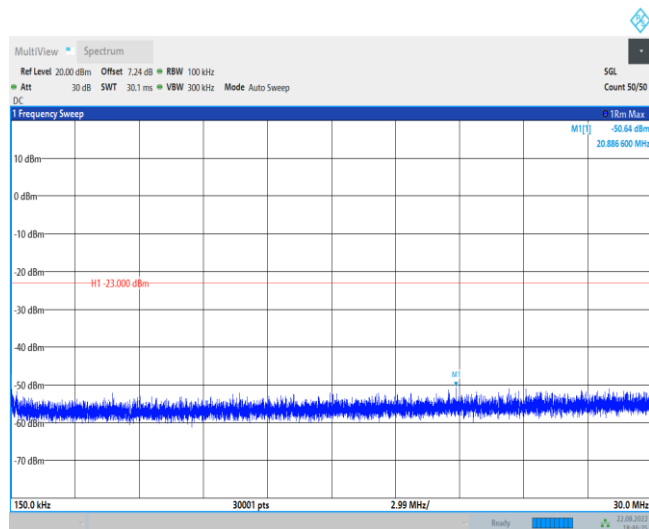
GSM1900-661-10000~18000MHz



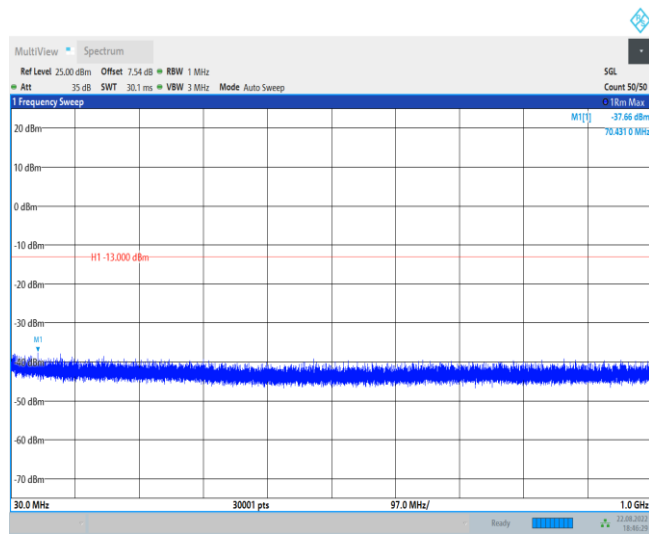
GSM1900-810-0.009~0.15MHz



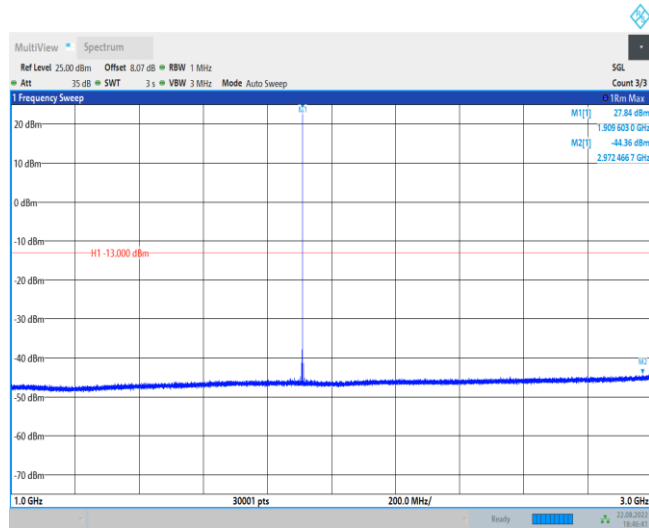
GSM1900-810-0.15~30MHz



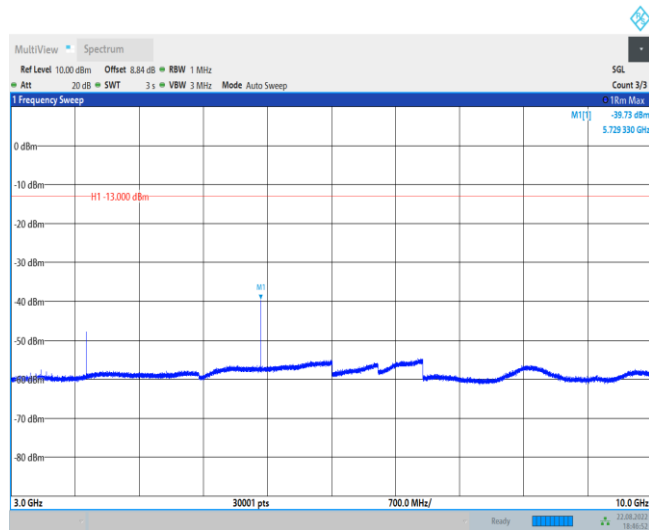
GSM1900-810-30~1000MHz



GSM1900-810-1000~3000MHz

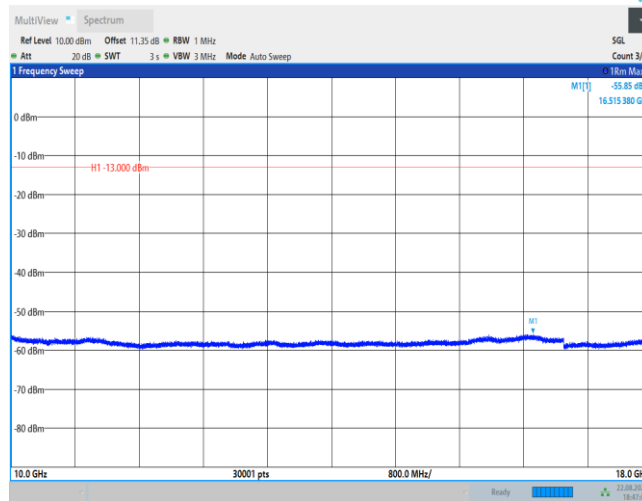


GSM1900-810-3000~10000MHz

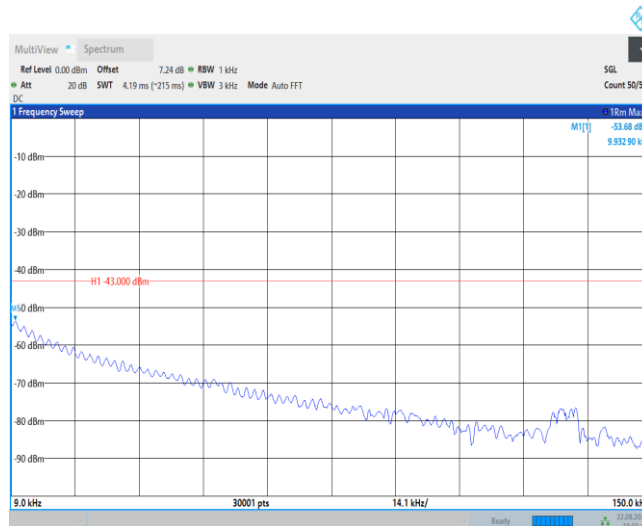


GSM1900-810-10000~18000MHz

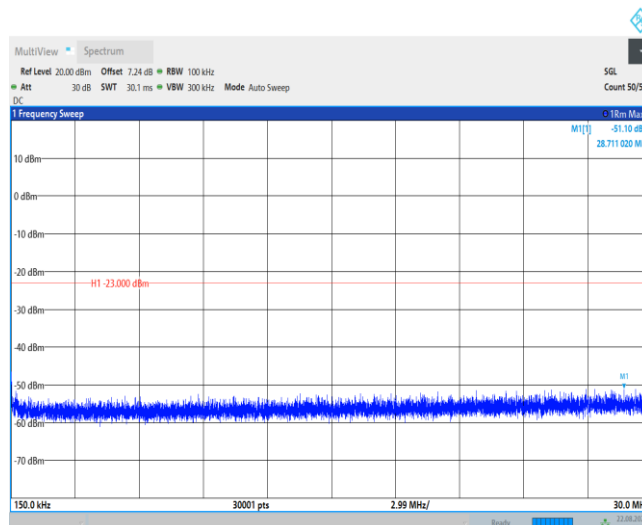




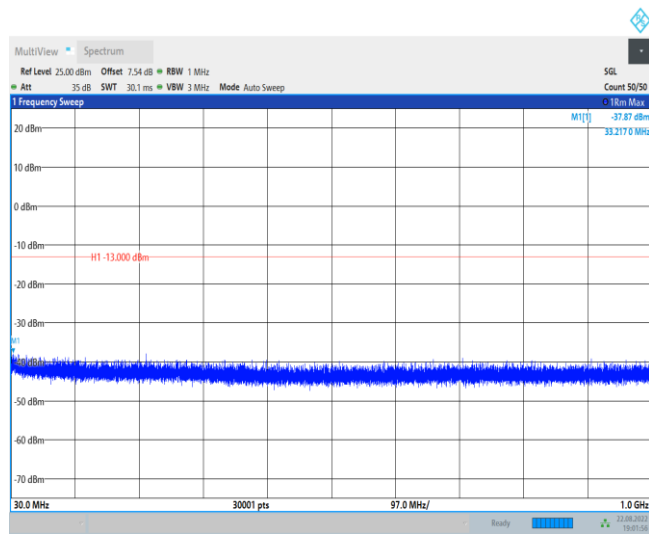
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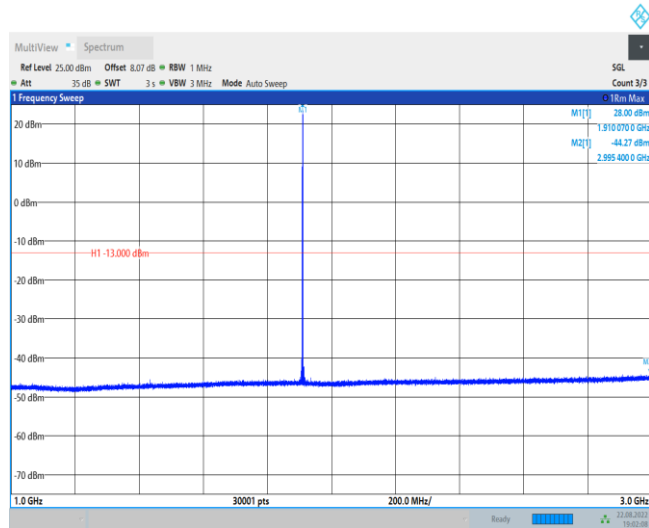
GPRS1900-512-0.15~30MHz



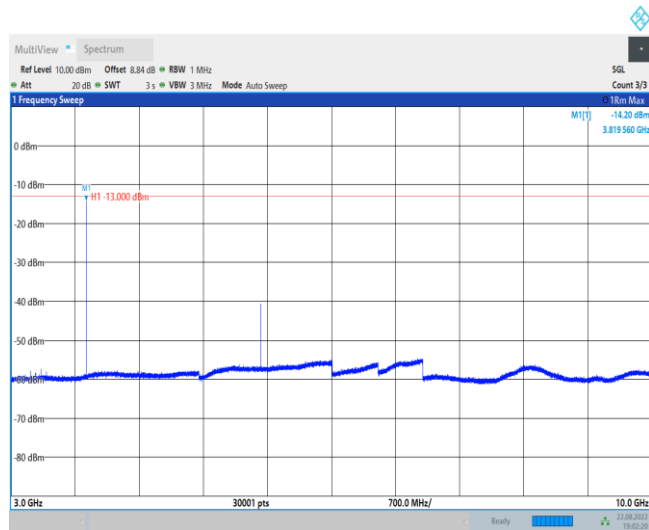
GPRS1900-512-30~1000MHz



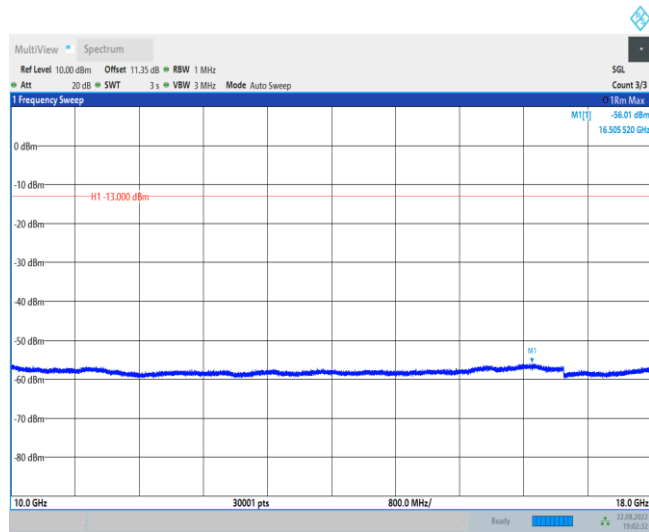
GPRS1900-512-1000~3000MHz



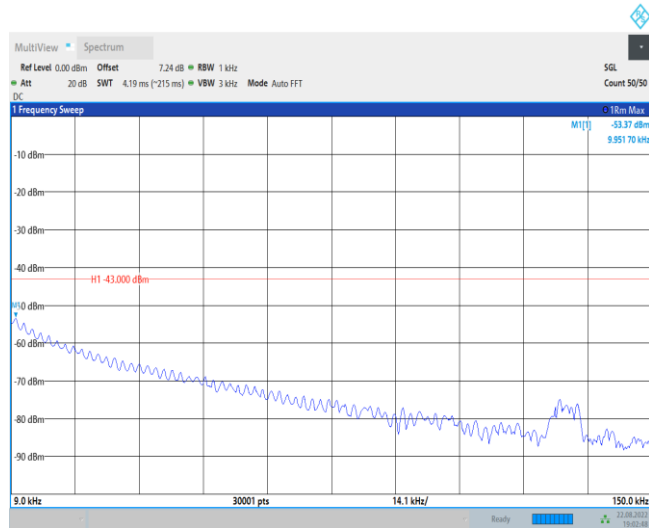
GPRS1900-512-3000~10000MHz



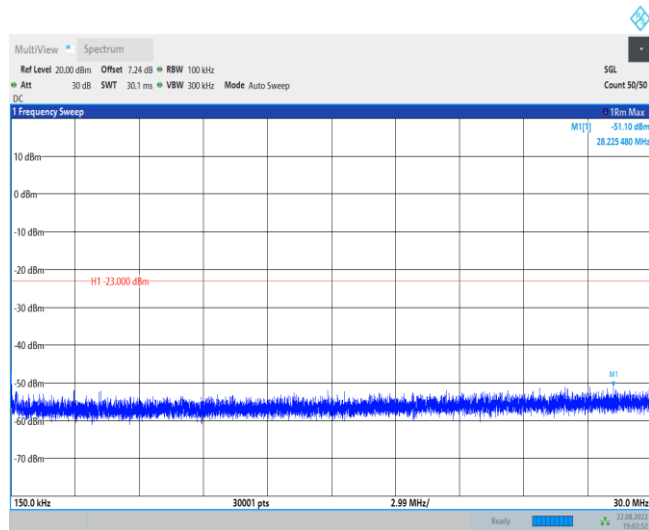
GPRS1900-512-10000~18000MHz



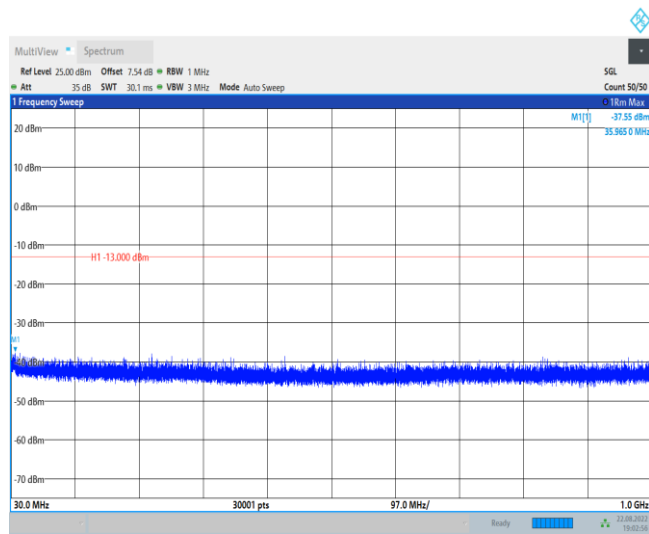
GPRS1900-661-0.009~0.15MHz



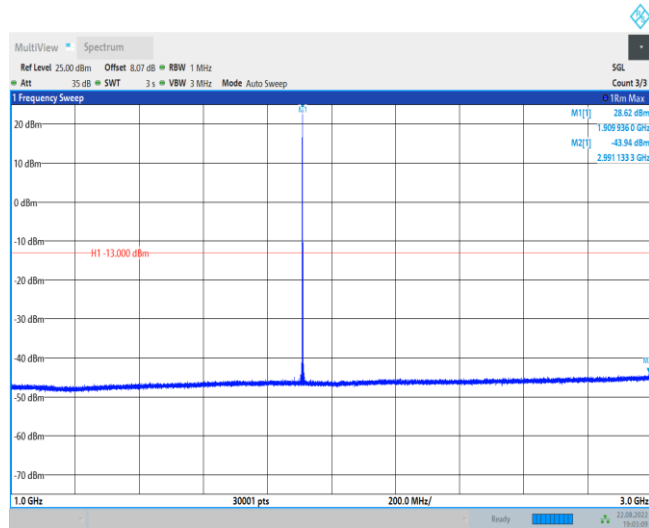
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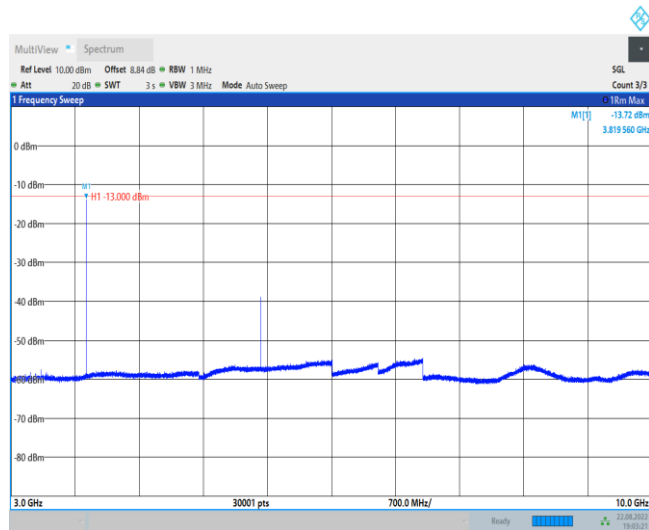
GPRS1900-661-30~1000MHz



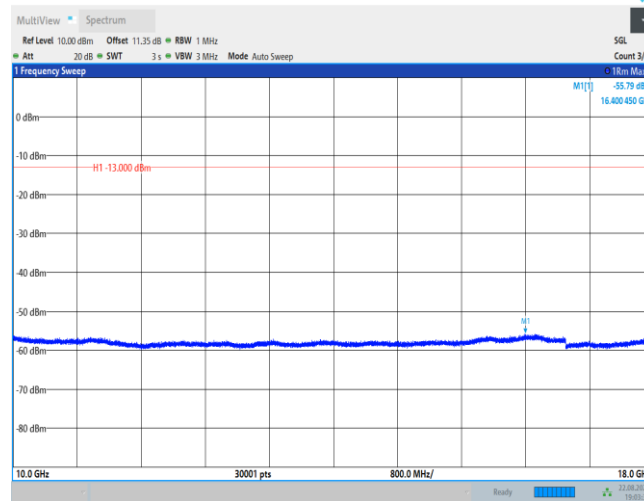
GPRS1900-661-1000~3000MHz



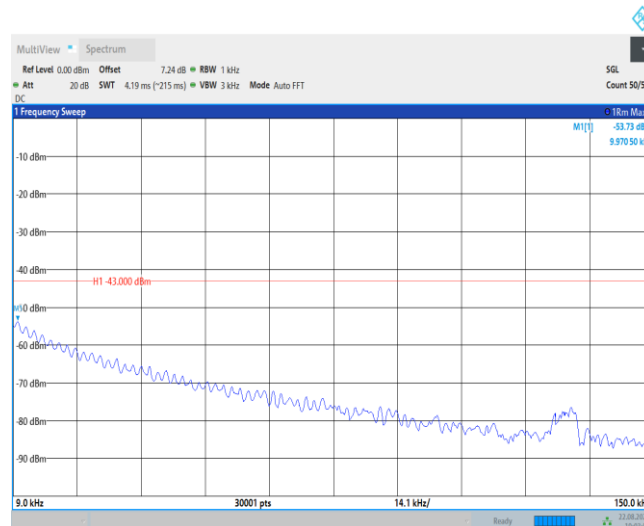
GPRS1900-661-3000~10000MHz



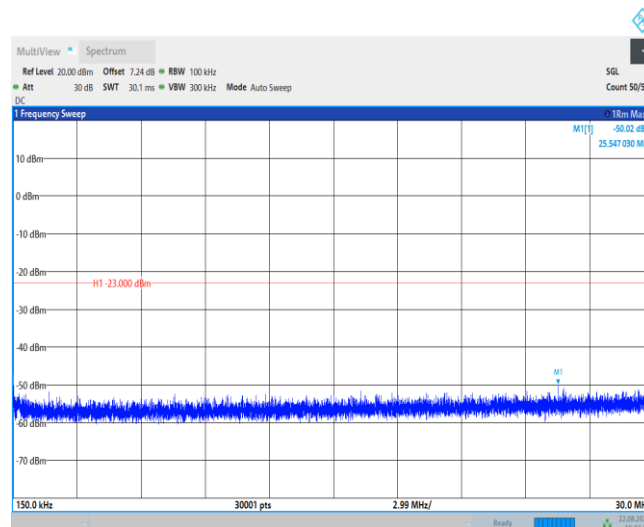
GPRS1900-661-10000~18000MHz



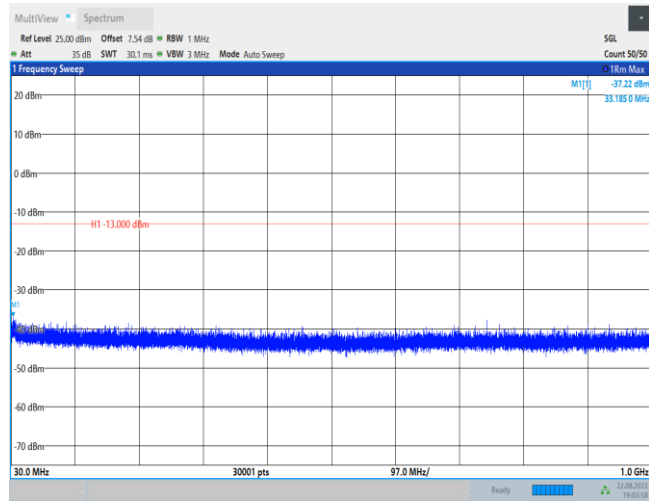
GPRS1900-810-0.009~0.15MHz



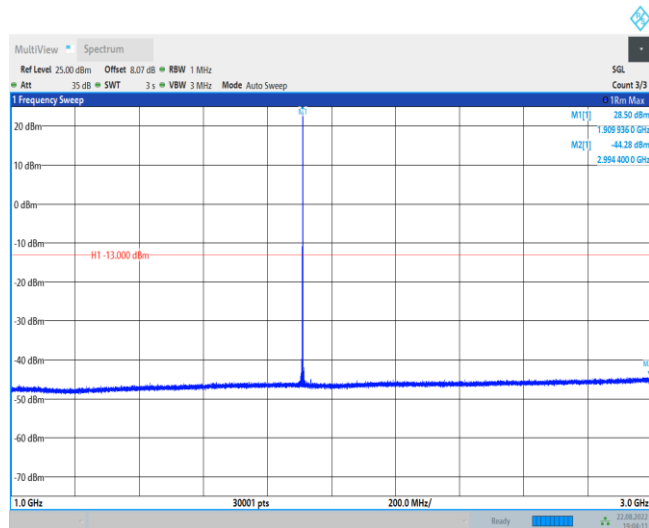
GPRS1900-810-0.15~30MHz



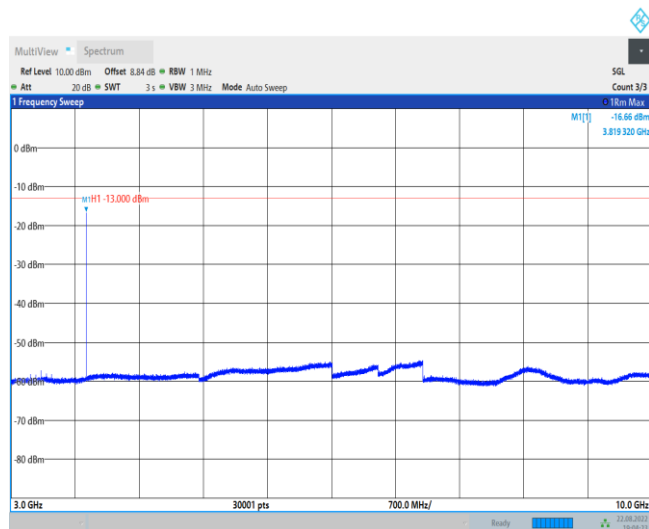
GPRS1900-810-30~1000MHz



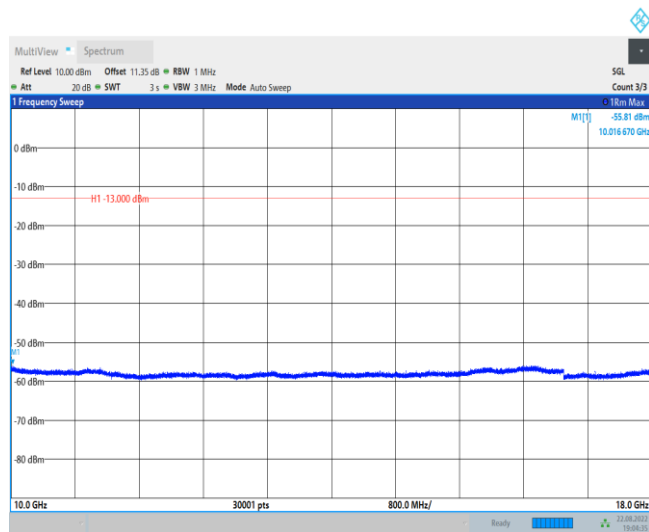
GPRS1900-810-1000~3000MHz



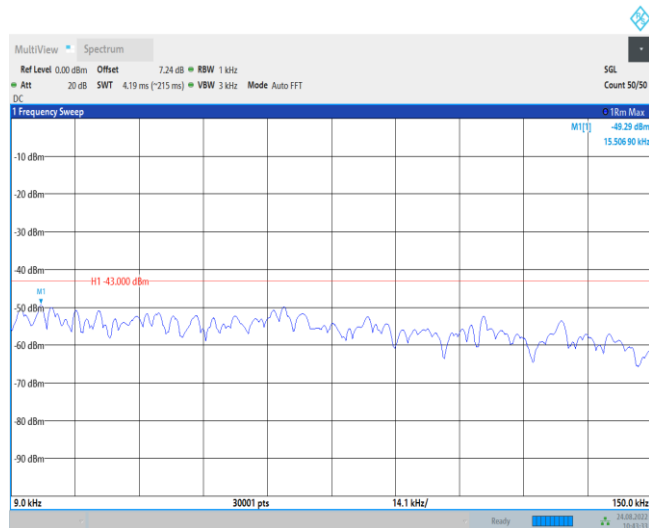
GPRS1900-810-3000~10000MHz



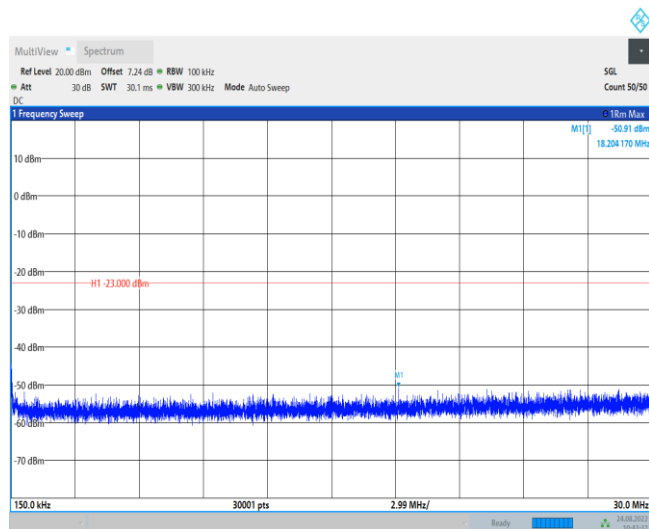
GPRS1900-810-10000~18000MHz



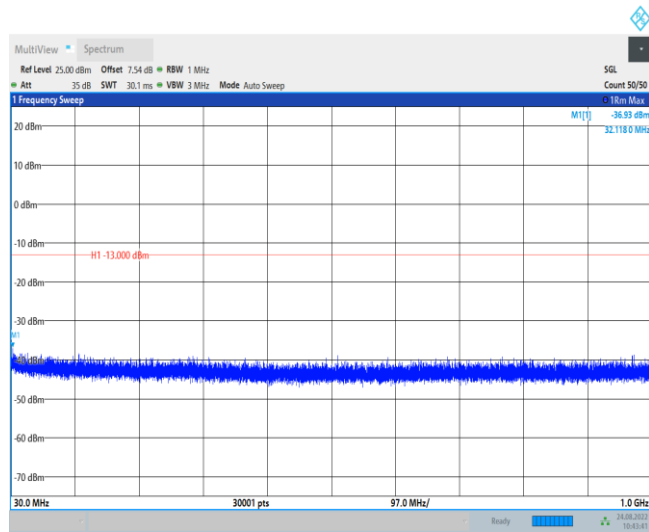
EGPRS1900-512-0.009~0.15MHz



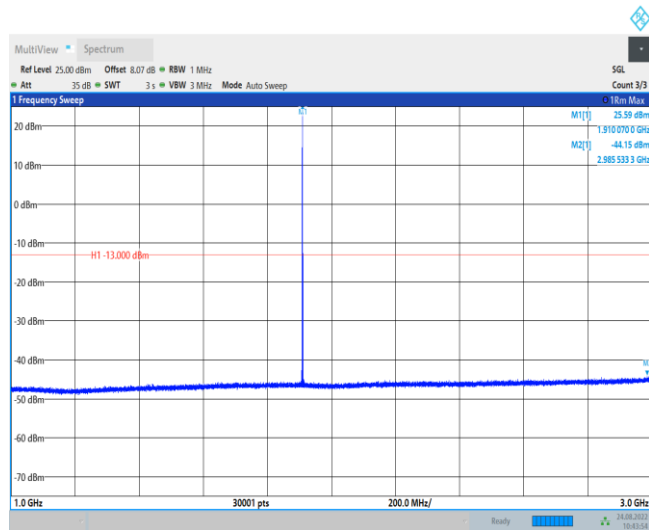
EGPRS1900-512-0.15~30MHz



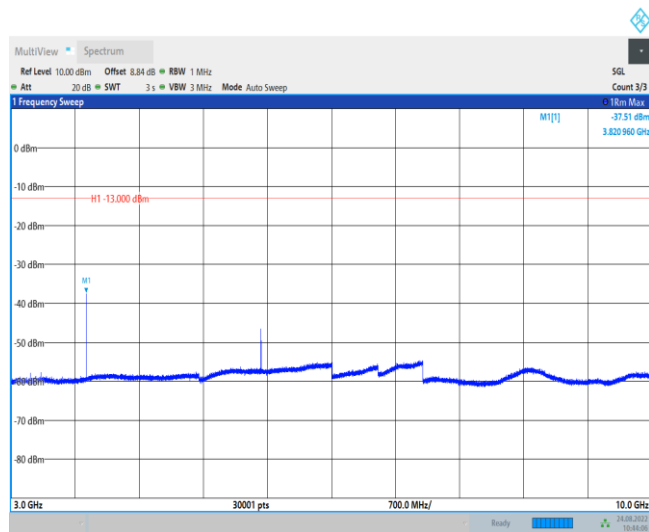
EGPRS1900-512-30~1000MHz



EGPRS1900-512-1000~3000MHz

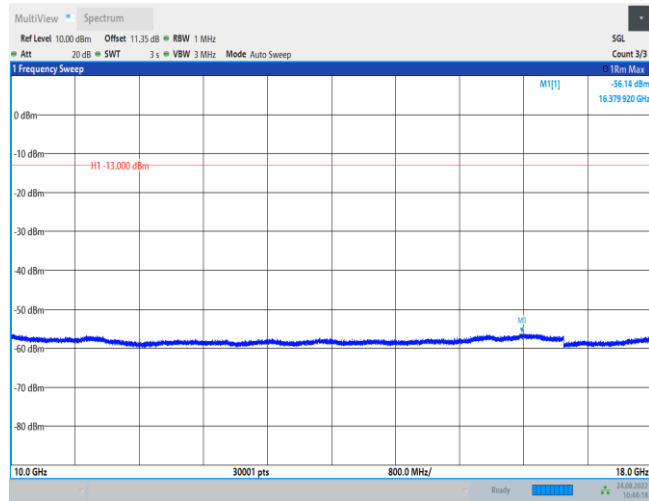


EGPRS1900-512-3000~10000MHz

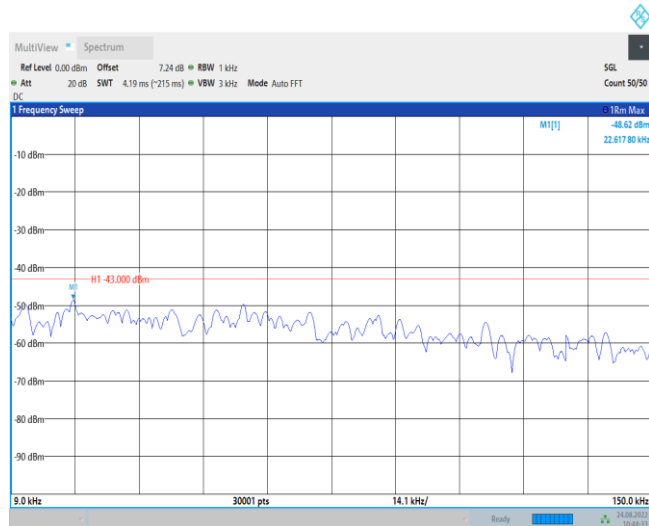


EGPRS1900-512-10000~18000MHz

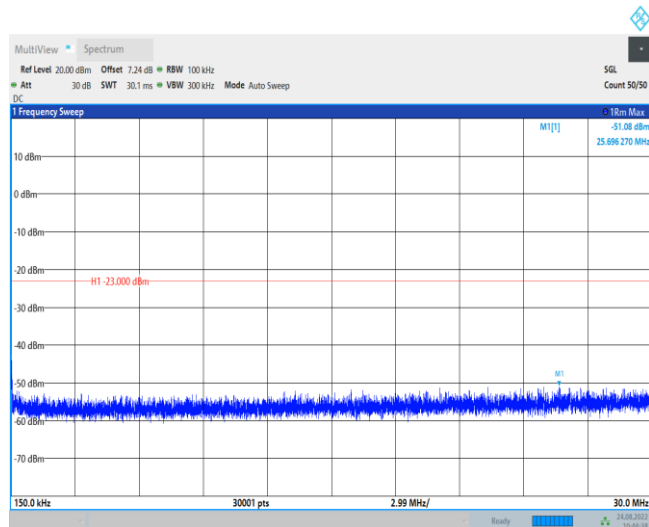




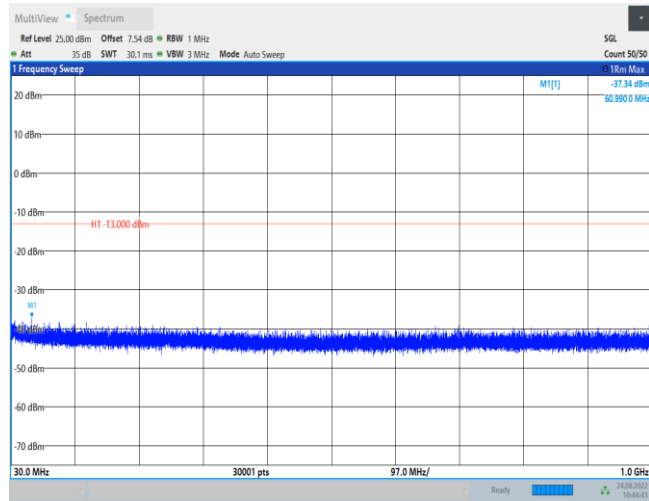
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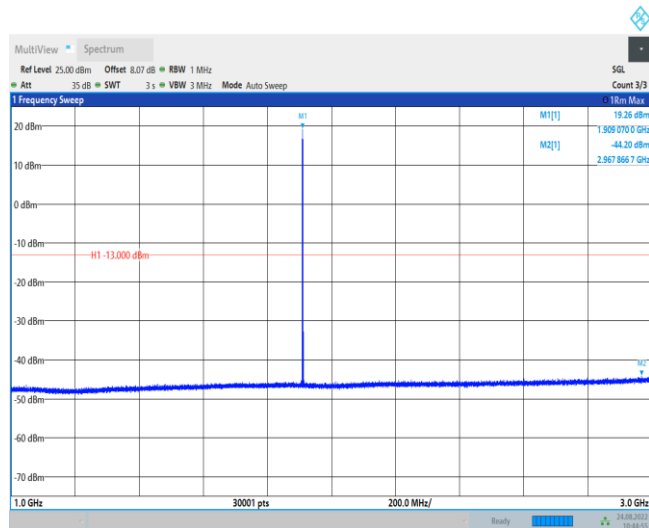
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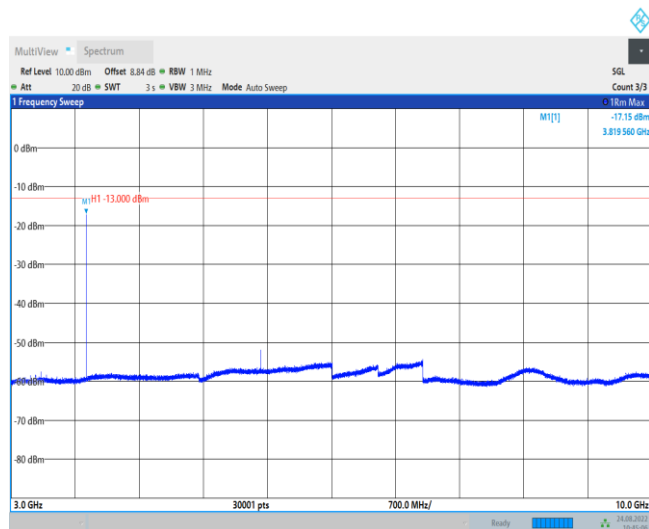
EGPRS1900-661-30~1000MHz



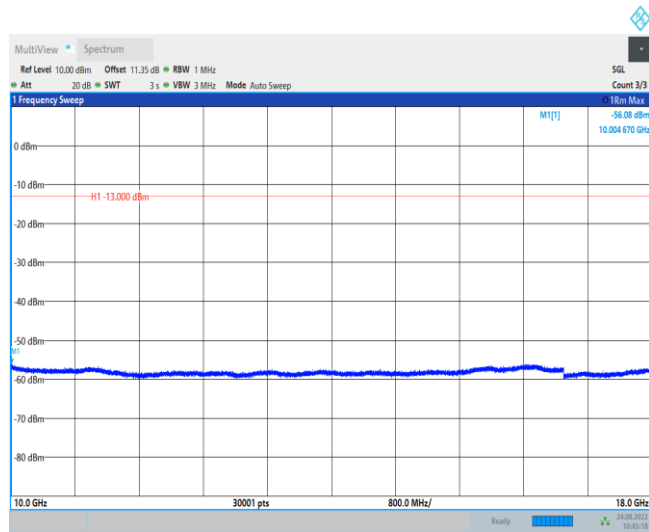
EGPRS1900-661-1000~3000MHz



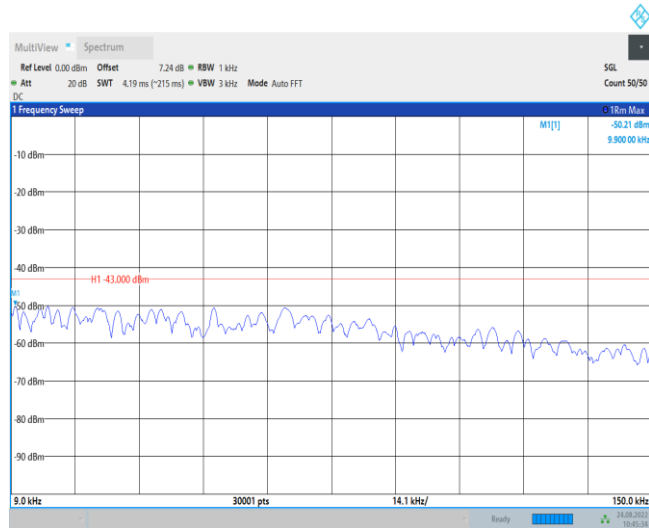
EGPRS1900-661-3000~10000MHz



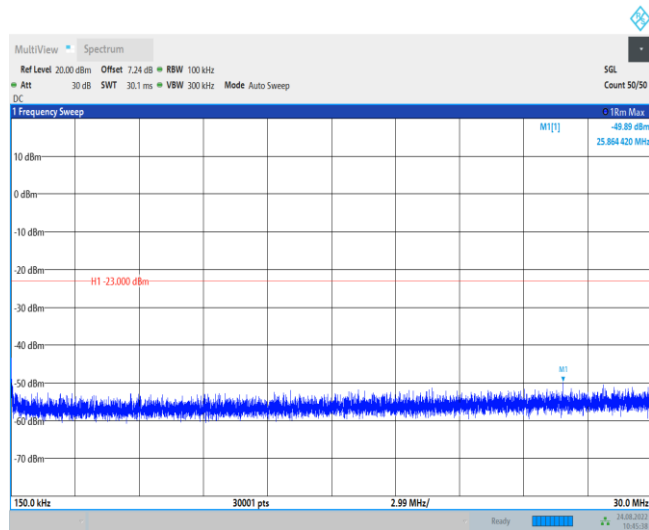
EGPRS1900-661-10000~18000MHz



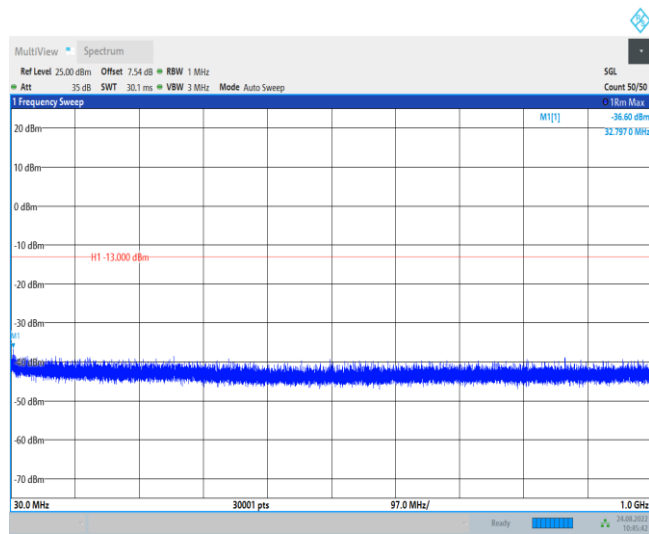
EGPRS1900-810-0.009~0.15MHz



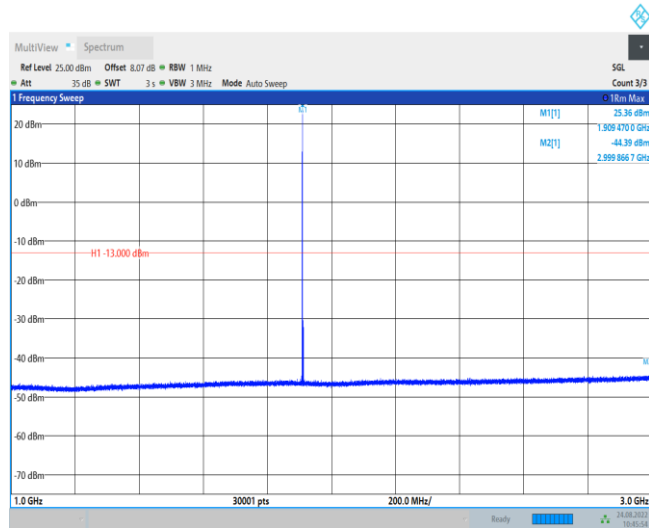
EGPRS1900-810-0.15~30MHz



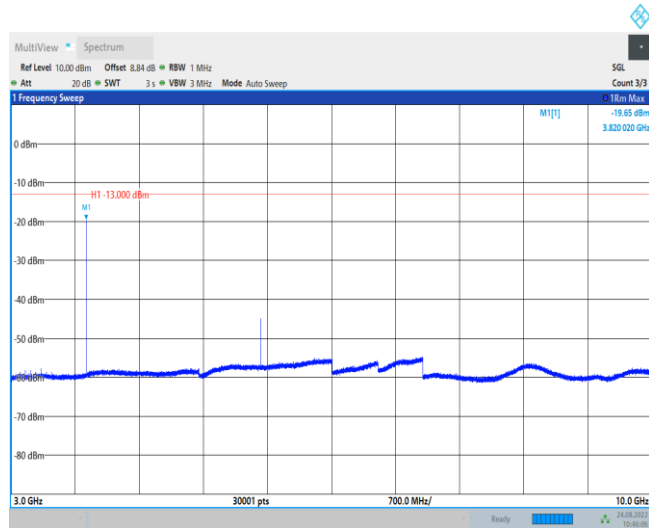
EGPRS1900-810-30~1000MHz



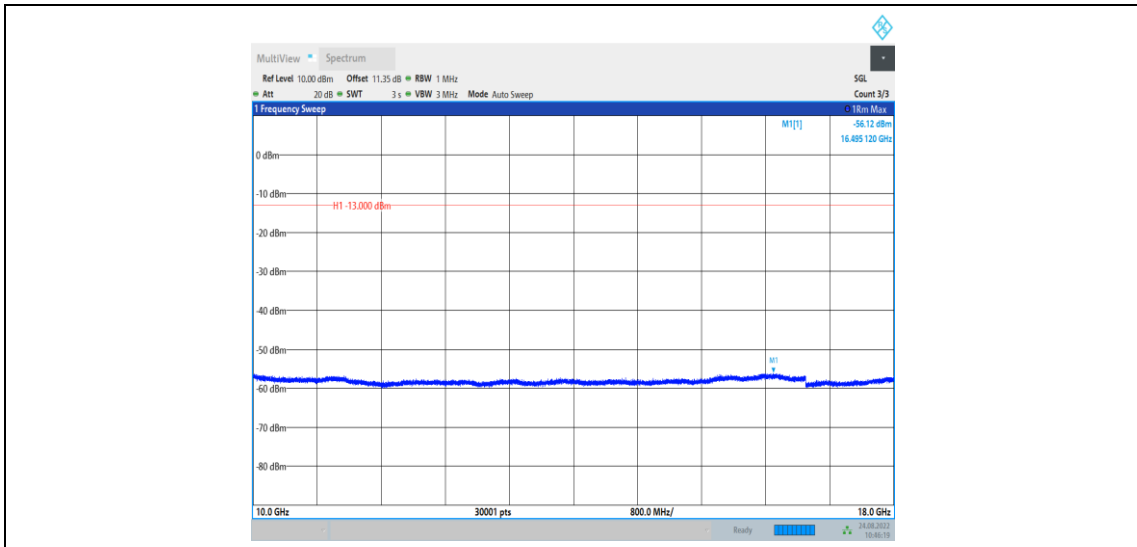
EGPRS1900-810-1000~3000MHz



EGPRS1900-810-3000~10000MHz



EGPRS1900-810-10000~18000MHz



## Appendix F: Frequency Stability

### Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VL	NT	-8.68	-0.010531	±2.5	PASS
GSM850	128	VN	NT	3.39	0.004113	±2.5	PASS
GSM850	128	VH	NT	-2.81	-0.003409	±2.5	PASS
GSM850	190	VL	NT	-6.33	-0.007566	±2.5	PASS
GSM850	190	VN	NT	-11.01	-0.013160	±2.5	PASS
GSM850	190	VH	NT	-5.71	-0.006825	±2.5	PASS
GSM850	251	VL	NT	-4.91	-0.005785	±2.5	PASS
GSM850	251	VN	NT	-2.49	-0.002934	±2.5	PASS
GSM850	251	VH	NT	-5.26	-0.006197	±2.5	PASS
GPRS850	128	VL	NT	3.52	0.004271	±2.5	PASS
GPRS850	128	VN	NT	-13.24	-0.016064	±2.5	PASS
GPRS850	128	VH	NT	-7.20	-0.008736	±2.5	PASS
GPRS850	190	VL	NT	5.33	0.006371	±2.5	PASS
GPRS850	190	VN	NT	-7.04	-0.008415	±2.5	PASS
GPRS850	190	VH	NT	-16.82	-0.020105	±2.5	PASS
GPRS850	251	VL	NT	-11.20	-0.013195	±2.5	PASS
GPRS850	251	VN	NT	-8.68	-0.010226	±2.5	PASS
GPRS850	251	VH	NT	-0.55	-0.000648	±2.5	PASS
EGPRS850	128	VL	NT	-5.88	-0.007134	±2.5	PASS
EGPRS850	128	VN	NT	0.19	0.000231	±2.5	PASS
EGPRS850	128	VH	NT	-0.45	-0.000546	±2.5	PASS
EGPRS850	190	VL	NT	-11.82	-0.014129	±2.5	PASS
EGPRS850	190	VN	NT	-14.43	-0.017248	±2.5	PASS
EGPRS850	190	VH	NT	-8.85	-0.010579	±2.5	PASS
EGPRS850	251	VL	NT	-3.71	-0.004371	±2.5	PASS
EGPRS850	251	VN	NT	-11.78	-0.013878	±2.5	PASS
EGPRS850	251	VH	NT	-13.04	-0.015363	±2.5	PASS
GSM1900	512	VL	NT	-19.66	-0.010626	±2.5	PASS
GSM1900	512	VN	NT	-16.98	-0.009177	±2.5	PASS
GSM1900	512	VH	NT	-11.75	-0.006351	±2.5	PASS
GSM1900	661	VL	NT	-30.80	-0.016383	±2.5	PASS
GSM1900	661	VN	NT	-28.38	-0.015096	±2.5	PASS
GSM1900	661	VH	NT	-18.76	-0.009979	±2.5	PASS

GSM1900	810	VL	NT	-32.83	-0.017190	±2.5	PASS
GSM1900	810	VN	NT	-30.90	-0.016180	±2.5	PASS
GSM1900	810	VH	NT	-27.06	-0.014169	±2.5	PASS
GPRS1900	512	VL	NT	-18.11	-0.009788	±2.5	PASS
GPRS1900	512	VN	NT	-21.95	-0.011864	±2.5	PASS
GPRS1900	512	VH	NT	-20.66	-0.011166	±2.5	PASS
GPRS1900	661	VL	NT	-7.46	-0.003968	±2.5	PASS
GPRS1900	661	VN	NT	-29.15	-0.015505	±2.5	PASS
GPRS1900	661	VH	NT	-26.96	-0.014340	±2.5	PASS
GPRS1900	810	VL	NT	-25.51	-0.013357	±2.5	PASS
GPRS1900	810	VN	NT	-15.92	-0.008336	±2.5	PASS
GPRS1900	810	VH	NT	-24.70	-0.012933	±2.5	PASS
EGPRS1900	512	VL	NT	-0.55	-0.000297	±2.5	PASS
EGPRS1900	512	VN	NT	-7.20	-0.003891	±2.5	PASS
EGPRS1900	512	VH	NT	-10.17	-0.005497	±2.5	PASS
EGPRS1900	661	VL	NT	-20.21	-0.010750	±2.5	PASS
EGPRS1900	661	VN	NT	-20.86	-0.011096	±2.5	PASS
EGPRS1900	661	VH	NT	-17.76	-0.009447	±2.5	PASS
EGPRS1900	810	VL	NT	-17.79	-0.009315	±2.5	PASS
EGPRS1900	810	VN	NT	-16.79	-0.008791	±2.5	PASS
EGPRS1900	810	VH	NT	-23.18	-0.012137	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	-7.01	-0.008505	±2.5	PASS
GSM850	128	NV	-20	-2.29	-0.002778	±2.5	PASS
GSM850	128	NV	-10	-13.98	-0.016962	±2.5	PASS
GSM850	128	NV	0	-10.85	-0.013164	±2.5	PASS
GSM850	128	NV	10	-11.91	-0.014450	±2.5	PASS
GSM850	128	NV	20	-17.66	-0.021427	±2.5	PASS
GSM850	128	NV	30	-12.98	-0.015749	±2.5	PASS
GSM850	128	NV	40	-8.30	-0.010070	±2.5	PASS
GSM850	128	NV	50	-12.07	-0.014645	±2.5	PASS
GSM850	190	NV	-30	-4.33	-0.005176	±2.5	PASS
GSM850	190	NV	-20	-1.61	-0.001924	±2.5	PASS
GSM850	190	NV	-10	-8.62	-0.010304	±2.5	PASS
GSM850	190	NV	0	-8.91	-0.010650	±2.5	PASS
GSM850	190	NV	10	-3.84	-0.004590	±2.5	PASS
GSM850	190	NV	20	-9.62	-0.011499	±2.5	PASS

GSM850	190	NV	30	-8.23	-0.009837	±2.5	PASS
GSM850	190	NV	40	0.39	0.000466	±2.5	PASS
GSM850	190	NV	50	-6.68	-0.007985	±2.5	PASS
GSM850	251	NV	-30	-4.13	-0.004866	±2.5	PASS
GSM850	251	NV	-20	-16.82	-0.019816	±2.5	PASS
GSM850	251	NV	-10	-12.49	-0.014715	±2.5	PASS
GSM850	251	NV	0	-10.91	-0.012853	±2.5	PASS
GSM850	251	NV	10	-7.94	-0.009354	±2.5	PASS
GSM850	251	NV	20	-11.24	-0.013242	±2.5	PASS
GSM850	251	NV	30	-1.32	-0.001555	±2.5	PASS
GSM850	251	NV	40	-9.01	-0.010615	±2.5	PASS
GSM850	251	NV	50	-12.66	-0.014915	±2.5	PASS
GPRS850	128	NV	-30	-6.39	-0.007753	±2.5	PASS
GPRS850	128	NV	-20	-8.72	-0.010580	±2.5	PASS
GPRS850	128	NV	-10	-8.62	-0.010459	±2.5	PASS
GPRS850	128	NV	0	-0.55	-0.000667	±2.5	PASS
GPRS850	128	NV	10	-5.97	-0.007243	±2.5	PASS
GPRS850	128	NV	20	-7.33	-0.008893	±2.5	PASS
GPRS850	128	NV	30	-6.36	-0.007717	±2.5	PASS
GPRS850	128	NV	40	-7.75	-0.009403	±2.5	PASS
GPRS850	128	NV	50	-3.03	-0.003676	±2.5	PASS
GPRS850	190	NV	-30	-11.36	-0.013579	±2.5	PASS
GPRS850	190	NV	-20	-14.17	-0.016938	±2.5	PASS
GPRS850	190	NV	-10	-11.14	-0.013316	±2.5	PASS
GPRS850	190	NV	0	-13.08	-0.015635	±2.5	PASS
GPRS850	190	NV	10	-7.88	-0.009419	±2.5	PASS
GPRS850	190	NV	20	-4.94	-0.005905	±2.5	PASS
GPRS850	190	NV	30	-8.27	-0.009885	±2.5	PASS
GPRS850	190	NV	40	-4.13	-0.004937	±2.5	PASS
GPRS850	190	NV	50	-5.00	-0.005977	±2.5	PASS
GPRS850	251	NV	-30	-11.14	-0.013124	±2.5	PASS
GPRS850	251	NV	-20	-8.07	-0.009508	±2.5	PASS
GPRS850	251	NV	-10	-7.49	-0.008824	±2.5	PASS
GPRS850	251	NV	0	-4.94	-0.005820	±2.5	PASS
GPRS850	251	NV	10	-1.81	-0.002132	±2.5	PASS
GPRS850	251	NV	20	-11.36	-0.013384	±2.5	PASS
GPRS850	251	NV	30	-6.46	-0.007611	±2.5	PASS
GPRS850	251	NV	40	-5.84	-0.006880	±2.5	PASS
GPRS850	251	NV	50	-1.49	-0.001755	±2.5	PASS
EGPRS850	128	NV	-30	-14.04	-0.017035	±2.5	PASS



EGPRS850	128	NV	-20	-13.37	-0.016222	±2.5	PASS
EGPRS850	128	NV	-10	-12.40	-0.015045	±2.5	PASS
EGPRS850	128	NV	0	-6.46	-0.007838	±2.5	PASS
EGPRS850	128	NV	10	-8.94	-0.010847	±2.5	PASS
EGPRS850	128	NV	20	-1.97	-0.002390	±2.5	PASS
EGPRS850	128	NV	30	-4.39	-0.005326	±2.5	PASS
EGPRS850	128	NV	40	-10.07	-0.012218	±2.5	PASS
EGPRS850	128	NV	50	-16.08	-0.019510	±2.5	PASS
EGPRS850	190	NV	-30	-6.01	-0.007184	±2.5	PASS
EGPRS850	190	NV	-20	-3.33	-0.003980	±2.5	PASS
EGPRS850	190	NV	-10	-3.26	-0.003897	±2.5	PASS
EGPRS850	190	NV	0	-1.39	-0.001661	±2.5	PASS
EGPRS850	190	NV	10	-10.36	-0.012383	±2.5	PASS
EGPRS850	190	NV	20	-12.88	-0.015396	±2.5	PASS
EGPRS850	190	NV	30	-9.94	-0.011881	±2.5	PASS
EGPRS850	190	NV	40	-1.65	-0.001972	±2.5	PASS
EGPRS850	190	NV	50	-14.04	-0.016782	±2.5	PASS
EGPRS850	251	NV	-30	-17.05	-0.020087	±2.5	PASS
EGPRS850	251	NV	-20	-6.62	-0.007799	±2.5	PASS
EGPRS850	251	NV	-10	-12.01	-0.014149	±2.5	PASS
EGPRS850	251	NV	0	-4.81	-0.005667	±2.5	PASS
EGPRS850	251	NV	10	0.55	0.000648	±2.5	PASS
EGPRS850	251	NV	20	-10.53	-0.012406	±2.5	PASS
EGPRS850	251	NV	30	-11.07	-0.013042	±2.5	PASS
EGPRS850	251	NV	40	-11.75	-0.013843	±2.5	PASS
EGPRS850	251	NV	50	-0.97	-0.001143	±2.5	PASS
GSM1900	512	NV	-30	-16.69	-0.009021	±2.5	PASS
GSM1900	512	NV	-20	-14.11	-0.007626	±2.5	PASS
GSM1900	512	NV	-10	-25.31	-0.013680	±2.5	PASS
GSM1900	512	NV	0	-22.31	-0.012058	±2.5	PASS
GSM1900	512	NV	10	0.77	0.000416	±2.5	PASS
GSM1900	512	NV	20	-37.19	-0.020101	±2.5	PASS
GSM1900	512	NV	30	-8.72	-0.004713	±2.5	PASS
GSM1900	512	NV	40	-6.07	-0.003281	±2.5	PASS
GSM1900	512	NV	50	-12.37	-0.006686	±2.5	PASS
GSM1900	661	NV	-30	-3.71	-0.001973	±2.5	PASS
GSM1900	661	NV	-20	-4.33	-0.002303	±2.5	PASS
GSM1900	661	NV	-10	-0.19	-0.000101	±2.5	PASS
GSM1900	661	NV	0	1.29	0.000686	±2.5	PASS
GSM1900	661	NV	10	-36.13	-0.019218	±2.5	PASS

GSM1900	661	NV	20	-28.31	-0.015059	±2.5	PASS
GSM1900	661	NV	30	-26.67	-0.014186	±2.5	PASS
GSM1900	661	NV	40	-4.29	-0.002282	±2.5	PASS
GSM1900	661	NV	50	2.23	0.001186	±2.5	PASS
GSM1900	810	NV	-30	-18.31	-0.009587	±2.5	PASS
GSM1900	810	NV	-20	-25.51	-0.013357	±2.5	PASS
GSM1900	810	NV	-10	-20.95	-0.010970	±2.5	PASS
GSM1900	810	NV	0	-13.01	-0.006812	±2.5	PASS
GSM1900	810	NV	10	-26.57	-0.013912	±2.5	PASS
GSM1900	810	NV	20	-26.54	-0.013897	±2.5	PASS
GSM1900	810	NV	30	-23.02	-0.012054	±2.5	PASS
GSM1900	810	NV	40	-28.28	-0.014808	±2.5	PASS
GSM1900	810	NV	50	-0.55	-0.000288	±2.5	PASS
GPRS1900	512	NV	-30	-20.40	-0.011026	±2.5	PASS
GPRS1900	512	NV	-20	-19.40	-0.010485	±2.5	PASS
GPRS1900	512	NV	-10	-17.18	-0.009285	±2.5	PASS
GPRS1900	512	NV	0	-25.93	-0.014015	±2.5	PASS
GPRS1900	512	NV	10	-16.27	-0.008794	±2.5	PASS
GPRS1900	512	NV	20	-3.10	-0.001675	±2.5	PASS
GPRS1900	512	NV	30	-19.15	-0.010350	±2.5	PASS
GPRS1900	512	NV	40	-24.63	-0.013312	±2.5	PASS
GPRS1900	512	NV	50	-28.61	-0.015463	±2.5	PASS
GPRS1900	661	NV	-30	-12.40	-0.006596	±2.5	PASS
GPRS1900	661	NV	-20	-29.25	-0.015559	±2.5	PASS
GPRS1900	661	NV	-10	-5.23	-0.002782	±2.5	PASS
GPRS1900	661	NV	0	-31.45	-0.016729	±2.5	PASS
GPRS1900	661	NV	10	-13.17	-0.007005	±2.5	PASS
GPRS1900	661	NV	20	-29.70	-0.015798	±2.5	PASS
GPRS1900	661	NV	30	-25.28	-0.013447	±2.5	PASS
GPRS1900	661	NV	40	-11.75	-0.006250	±2.5	PASS
GPRS1900	661	NV	50	-24.38	-0.012968	±2.5	PASS
GPRS1900	810	NV	-30	-38.61	-0.020217	±2.5	PASS
GPRS1900	810	NV	-20	-28.51	-0.014928	±2.5	PASS
GPRS1900	810	NV	-10	-25.51	-0.013357	±2.5	PASS
GPRS1900	810	NV	0	-19.44	-0.010179	±2.5	PASS
GPRS1900	810	NV	10	-38.58	-0.020201	±2.5	PASS
GPRS1900	810	NV	20	-24.44	-0.012797	±2.5	PASS
GPRS1900	810	NV	30	-8.30	-0.004346	±2.5	PASS
GPRS1900	810	NV	40	-24.05	-0.012593	±2.5	PASS
GPRS1900	810	NV	50	-2.74	-0.001435	±2.5	PASS

EGPRS1900	512	NV	-30	-12.88	-0.006961	±2.5	PASS
EGPRS1900	512	NV	-20	-19.08	-0.010312	±2.5	PASS
EGPRS1900	512	NV	-10	-22.54	-0.012182	±2.5	PASS
EGPRS1900	512	NV	0	-23.89	-0.012912	±2.5	PASS
EGPRS1900	512	NV	10	-15.79	-0.008534	±2.5	PASS
EGPRS1900	512	NV	20	3.23	0.001746	±2.5	PASS
EGPRS1900	512	NV	30	-12.17	-0.006578	±2.5	PASS
EGPRS1900	512	NV	40	-23.76	-0.012842	±2.5	PASS
EGPRS1900	512	NV	50	-17.89	-0.009669	±2.5	PASS
EGPRS1900	661	NV	-30	-11.88	-0.006319	±2.5	PASS
EGPRS1900	661	NV	-20	-9.30	-0.004947	±2.5	PASS
EGPRS1900	661	NV	-10	-3.29	-0.001750	±2.5	PASS
EGPRS1900	661	NV	0	-22.89	-0.012176	±2.5	PASS
EGPRS1900	661	NV	10	-12.07	-0.006420	±2.5	PASS
EGPRS1900	661	NV	20	-18.82	-0.010011	±2.5	PASS
EGPRS1900	661	NV	30	-14.30	-0.007606	±2.5	PASS
EGPRS1900	661	NV	40	-6.20	-0.003298	±2.5	PASS
EGPRS1900	661	NV	50	-13.59	-0.007229	±2.5	PASS
EGPRS1900	810	NV	-30	-17.92	-0.009383	±2.5	PASS
EGPRS1900	810	NV	-20	-2.42	-0.001267	±2.5	PASS
EGPRS1900	810	NV	-10	-9.91	-0.005189	±2.5	PASS
EGPRS1900	810	NV	0	-23.25	-0.012174	±2.5	PASS
EGPRS1900	810	NV	10	-21.66	-0.011342	±2.5	PASS
EGPRS1900	810	NV	20	-9.17	-0.004802	±2.5	PASS
EGPRS1900	810	NV	30	-18.85	-0.009870	±2.5	PASS
EGPRS1900	810	NV	40	-19.11	-0.010006	±2.5	PASS
EGPRS1900	810	NV	50	-2.00	-0.001047	±2.5	PASS