

Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	conducted power(dBm)	Max AntGain (dBi)	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	29.20	-0.8	28.40	33	PASS
GSM1900	661	29.56	-0.8	28.76	33	PASS
GSM1900	810	29.46	-0.8	28.66	33	PASS

Band	Channel	Up Slot Num	conducted power(dBm)	Max AntGain (dBi)	EIRP (dBm)	Limit (dBm)	Verdict
GPRS1900	512	1	29.82	-0.8	29.02	33	PASS
GPRS1900	512	2	28.82	-0.8	28.02	33	PASS
GPRS1900	512	3	26.79	-0.8	25.99	33	PASS
GPRS1900	512	4	25.73	-0.8	24.93	33	PASS
GPRS1900	661	1	30.12	-0.8	29.32	33	PASS
GPRS1900	661	2	29.13	-0.8	28.33	33	PASS
GPRS1900	661	3	27.09	-0.8	26.29	33	PASS
GPRS1900	661	4	26.07	-0.8	25.27	33	PASS
GPRS1900	810	1	29.93	-0.8	29.13	33	PASS
GPRS1900	810	2	28.91	-0.8	28.11	33	PASS
GPRS1900	810	3	26.86	-0.8	26.06	33	PASS
GPRS1900	810	4	25.80	-0.8	25.00	33	PASS

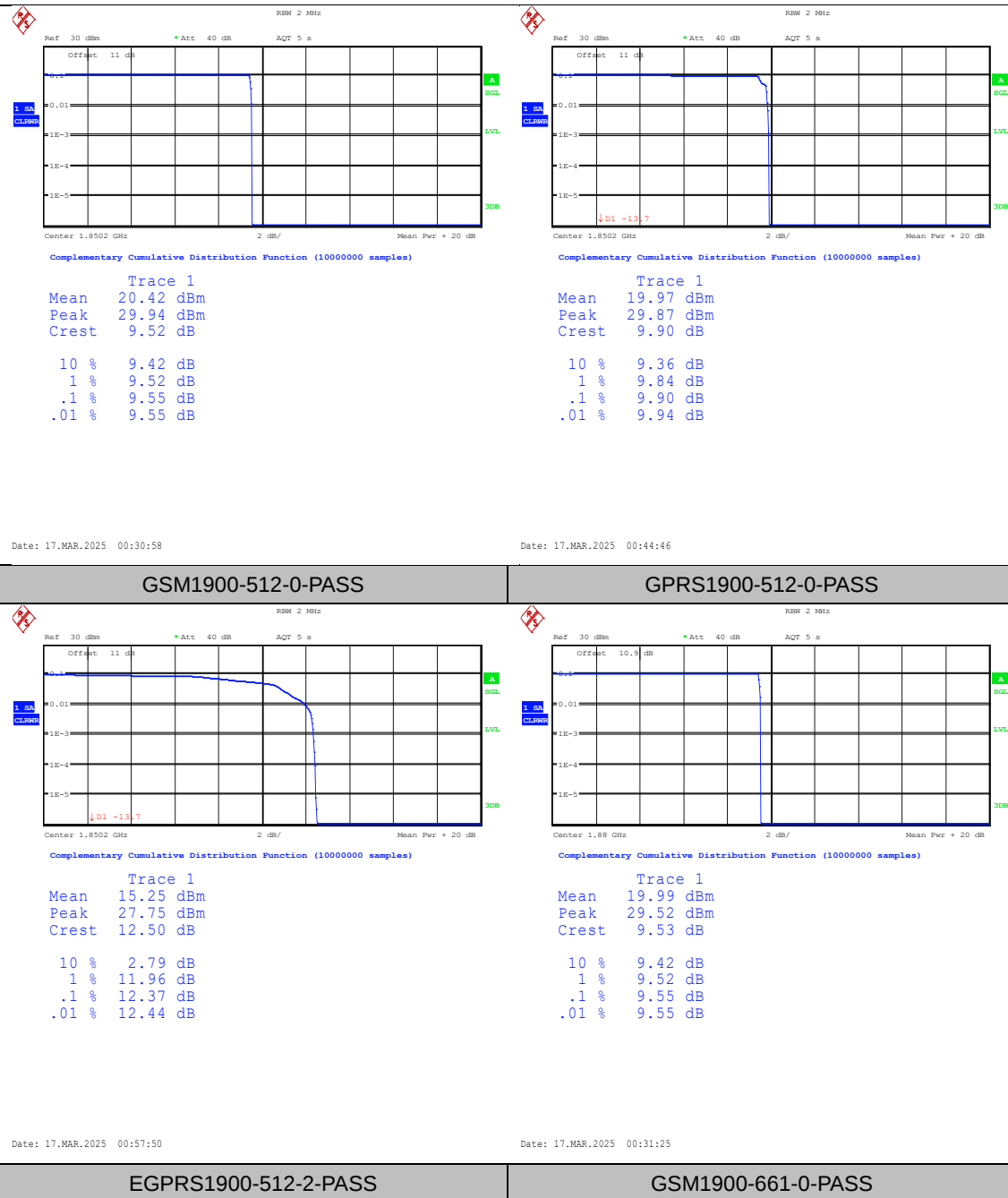
Band	Channel	Up Slot Num	conducted power(dBm)	Max AntGain (dBi)	EIRP (dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	24.93	-0.8	24.13	33	PASS
EGPRS1900	512	2	24.05	-0.8	23.25	33	PASS
EGPRS1900	512	3	22.27	-0.8	21.47	33	PASS
EGPRS1900	512	4	21.29	-0.8	20.49	33	PASS
EGPRS1900	661	1	25.32	-0.8	24.52	33	PASS
EGPRS1900	661	2	24.42	-0.8	23.62	33	PASS
EGPRS1900	661	3	22.56	-0.8	21.76	33	PASS
EGPRS1900	661	4	21.60	-0.8	20.80	33	PASS
EGPRS1900	810	1	25.15	-0.8	24.35	33	PASS
EGPRS1900	810	2	24.18	-0.8	23.38	33	PASS
EGPRS1900	810	3	22.33	-0.8	21.53	33	PASS
EGPRS1900	810	4	21.33	-0.8	20.53	33	PASS

Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM1900	512	9.55	13	PASS
GPRS1900	512	9.90	13	PASS
EGPRS1900	512	12.37	13	PASS
GSM1900	661	9.55	13	PASS
GPRS1900	661	9.90	13	PASS
EGPRS1900	661	12.40	13	PASS
GSM1900	810	9.55	13	PASS
GPRS1900	810	9.97	13	PASS
EGPRS1900	810	12.50	13	PASS

Test Graphs

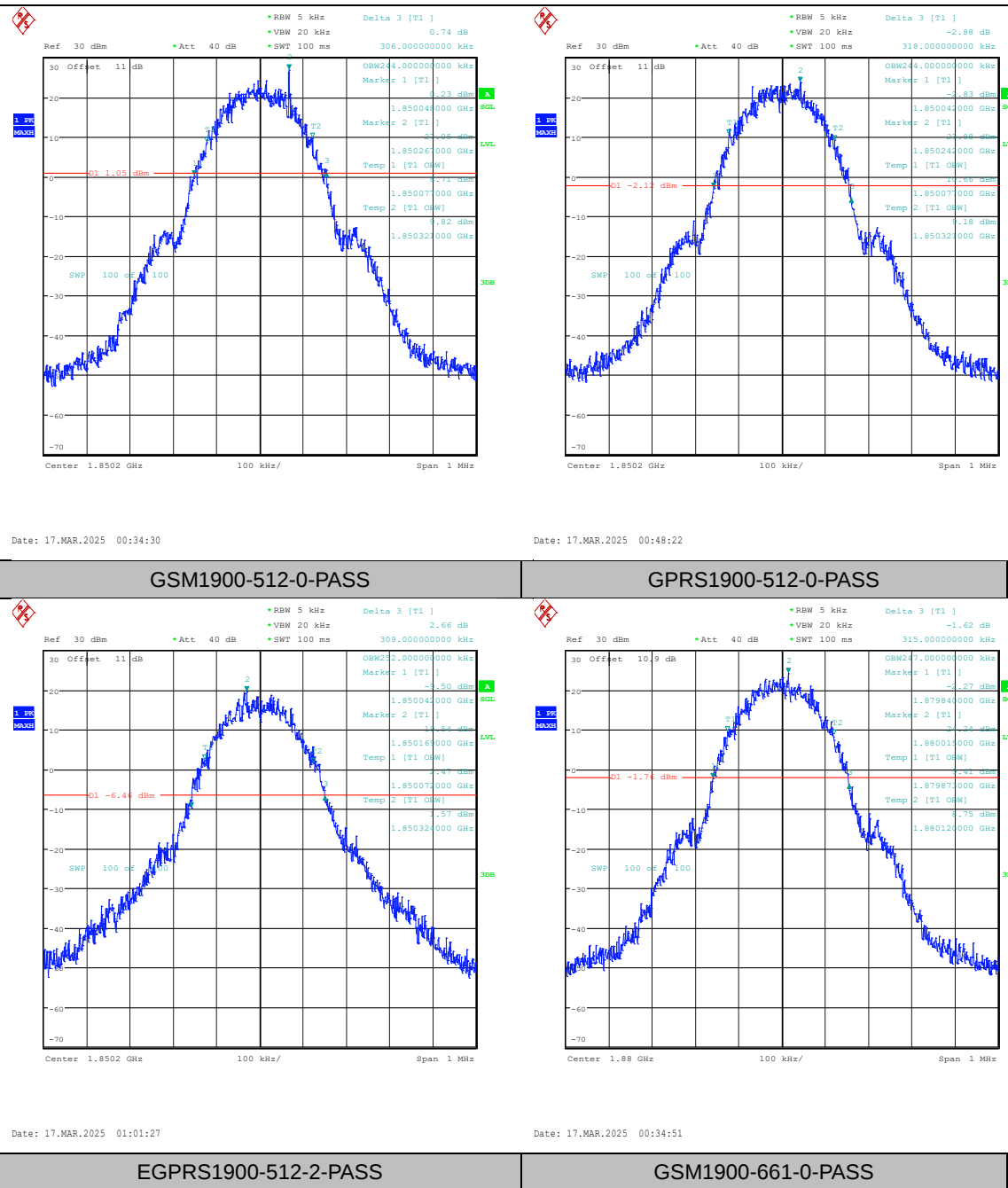


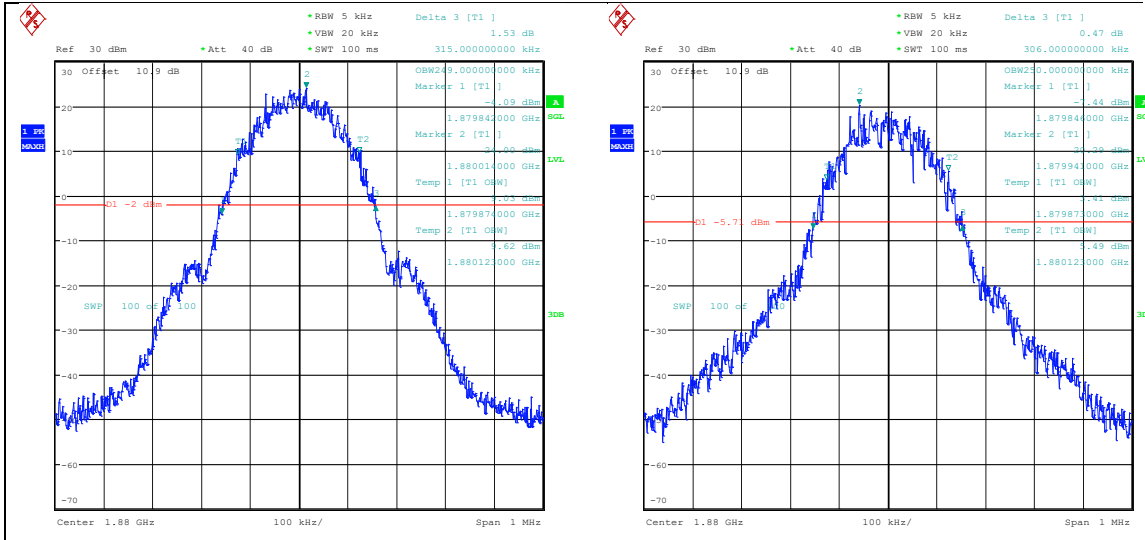
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM1900	512	0.244	0.31	---	PASS
GPRS1900	512	0.244	0.32	---	PASS
EGPRS1900	512	0.252	0.31	---	PASS
GSM1900	661	0.247	0.32	---	PASS
GPRS1900	661	0.249	0.31	---	PASS
EGPRS1900	661	0.25	0.31	---	PASS
GSM1900	810	0.246	0.31	---	PASS
GPRS1900	810	0.244	0.31	---	PASS
EGPRS1900	810	0.248	0.32	---	PASS

Test Graphs



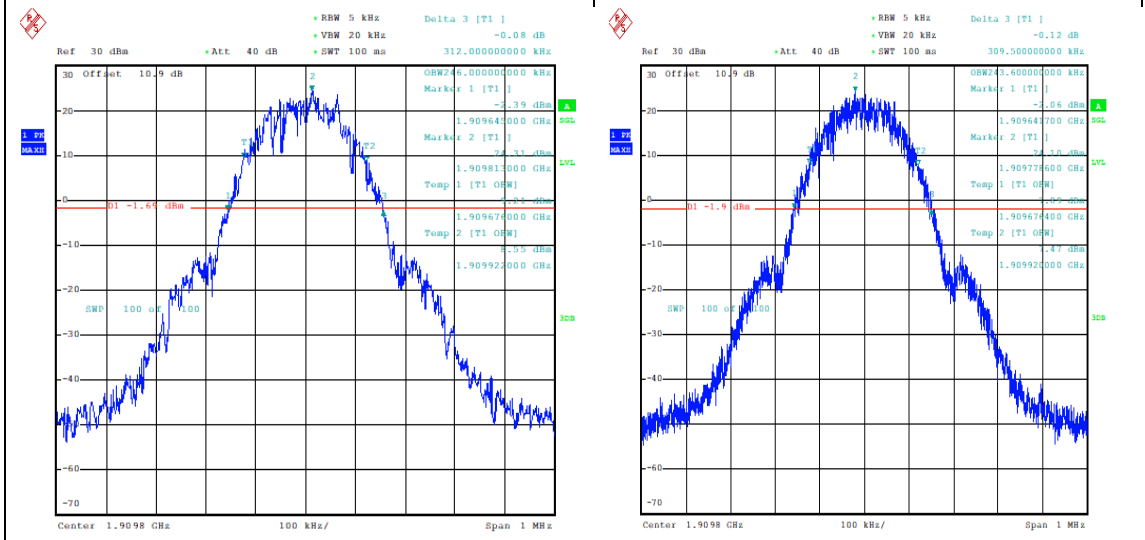


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GPRS1900-661-0-PASS

EGPRS1900-661-2-PASS



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GSM1900-810-0-PASS

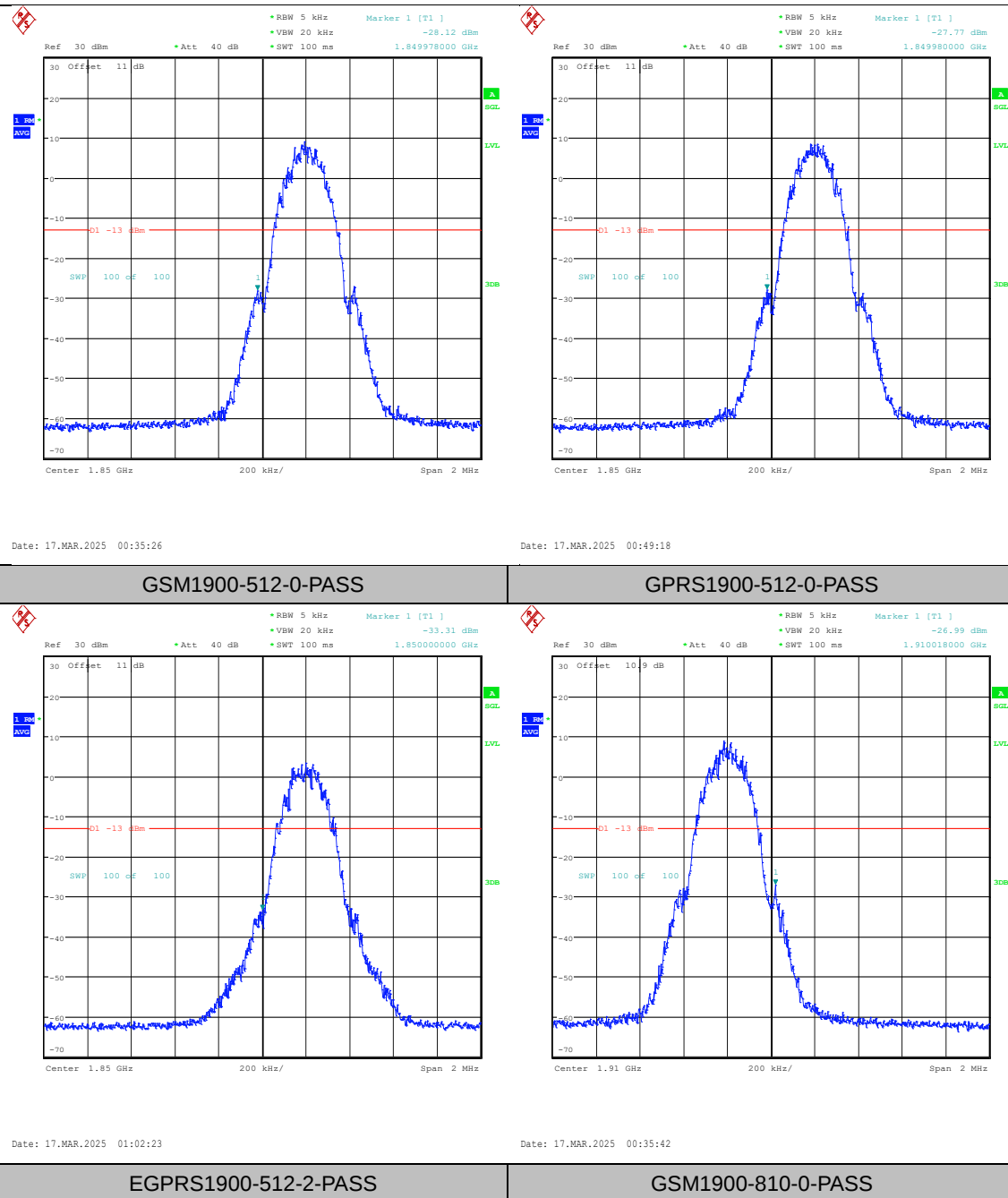
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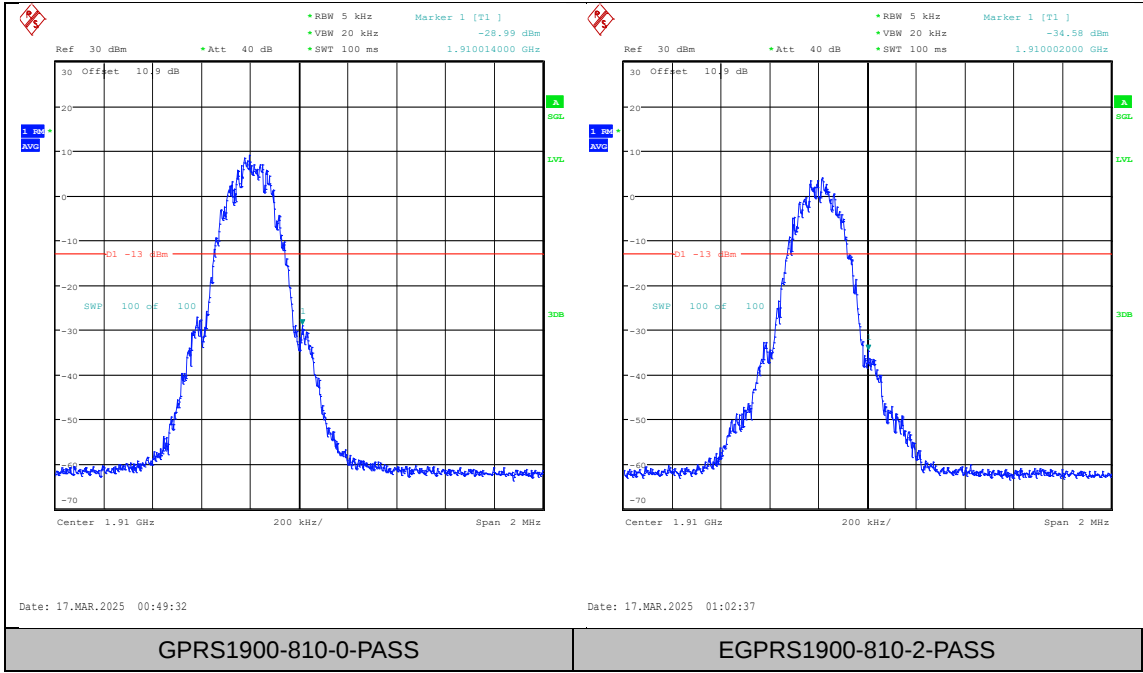
Appendix D: Band Edge

Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM1900	512	1849.98	-28.12	-13	PASS
GPRS1900	512	1849.98	-27.77	-13	PASS
EGPRS1900	512	1850.00	-33.31	-13	PASS
GSM1900	810	1910.02	-26.99	-13	PASS
GPRS1900	810	1910.01	-28.99	-13	PASS
EGPRS1900	810	1910.00	-34.58	-13	PASS

Test Graphs





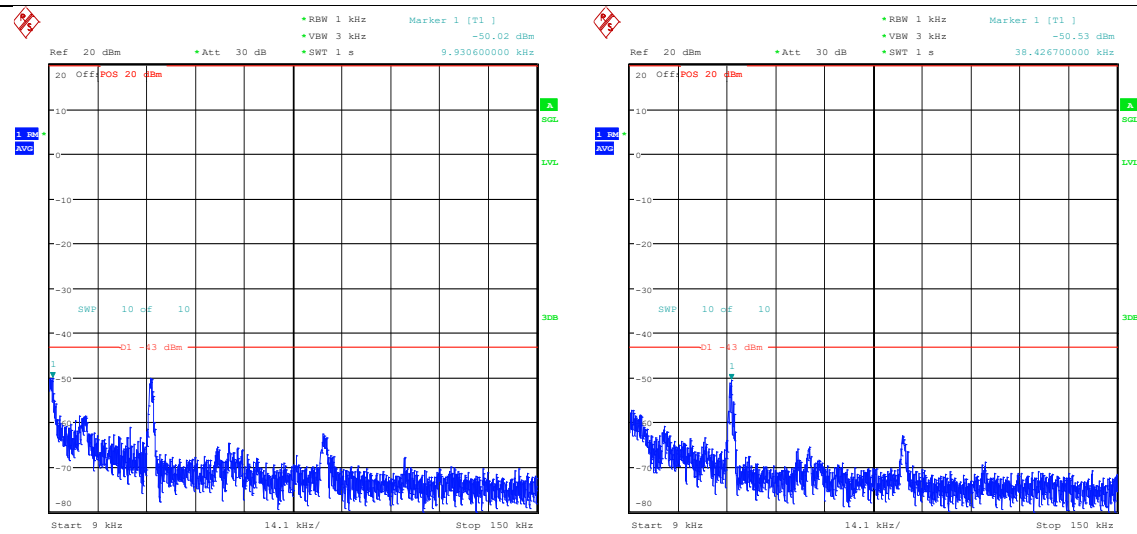
Appendix E: Conducted Spurious Emission

Test Result

Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM1900	512	0.009~0.15MHz	0.01	-50.02	-43	PASS
GPRS1900	512	0.009~0.15MHz	0.04	-50.53	-43	PASS
GSM1900	512	0.15~30MHz	0.18	-52.43	-33	PASS
GPRS1900	512	0.15~30MHz	0.19	-52.06	-33	PASS
GSM1900	512	30~1000MHz	231.6	-45.34	-13	PASS
GPRS1900	512	30~1000MHz	201.5	-45.4	-13	PASS
GSM1900	512	1000~3000MHz	2505.73	-35.95	-13	PASS
GPRS1900	512	1000~3000MHz	2531.13	-35.88	-13	PASS
GSM1900	512	3000~18000MHz	3700	-44.45	-13	PASS
GPRS1900	512	3000~18000MHz	3181	-46.34	-13	PASS
EGPRS1900	512	0.009~0.15MHz	0.04	-51.48	-43	PASS
EGPRS1900	512	0.15~30MHz	0.18	-52.14	-33	PASS
EGPRS1900	512	30~1000MHz	220.28	-45.33	-13	PASS
EGPRS1900	512	1000~3000MHz	2540.67	-35.91	-13	PASS
EGPRS1900	512	3000~18000MHz	3700	-44.32	-13	PASS
GSM1900	661	0.009~0.15MHz	0.04	-47.3	-43	PASS
GPRS1900	661	0.009~0.15MHz	0.04	-51.4	-43	PASS
GSM1900	661	0.15~30MHz	0.15	-52.47	-33	PASS
GPRS1900	661	0.15~30MHz	0.18	-51.3	-33	PASS
GSM1900	661	30~1000MHz	202.24	-45.21	-13	PASS
GPRS1900	661	30~1000MHz	198.3	-45.37	-13	PASS
GSM1900	661	1000~3000MHz	2528.73	-35.88	-13	PASS
GPRS1900	661	1000~3000MHz	2506.73	-35.85	-13	PASS
GSM1900	661	3000~18000MHz	3760	-39.76	-13	PASS
GPRS1900	661	3000~18000MHz	3760	-44.34	-13	PASS
EGPRS1900	661	0.009~0.15MHz	0.04	-50.66	-43	PASS
EGPRS1900	661	0.15~30MHz	0.16	-52.37	-33	PASS
EGPRS1900	661	30~1000MHz	194.67	-45.3	-13	PASS
EGPRS1900	661	1000~3000MHz	2484.93	-35.89	-13	PASS
EGPRS1900	661	3000~18000MHz	3759.5	-41.84	-13	PASS
GSM1900	810	0.009~0.15MHz	0.04	-49.98	-43	PASS
GPRS1900	810	0.009~0.15MHz	0.04	-50.83	-43	PASS
GSM1900	810	0.15~30MHz	0.19	-52.82	-33	PASS
GPRS1900	810	0.15~30MHz	0.18	-52.39	-33	PASS
GSM1900	810	30~1000MHz	239.26	-45.35	-13	PASS
GPRS1900	810	30~1000MHz	199.14	-45.29	-13	PASS

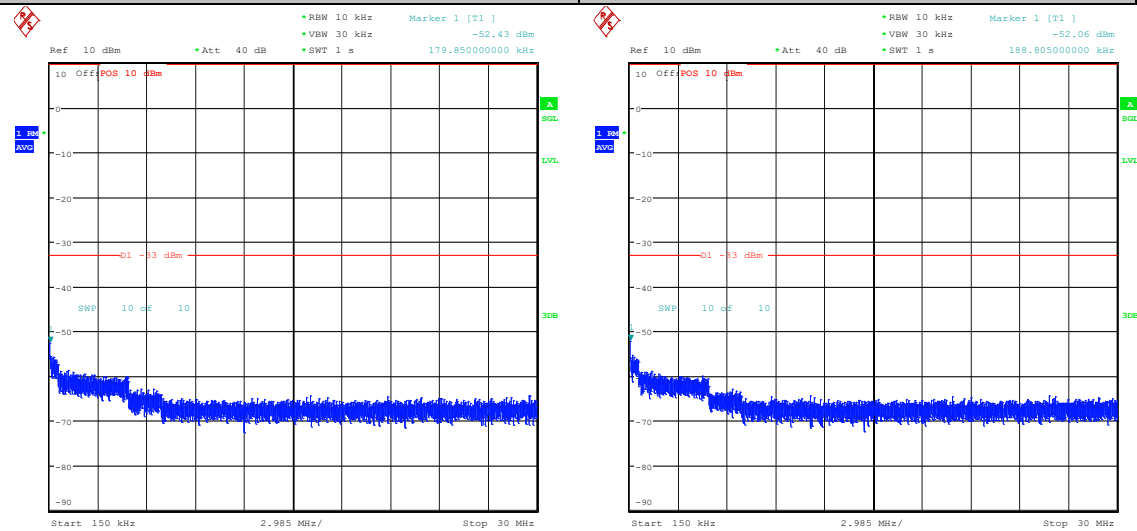
GSM1900	810	1000~3000MHz	2519.6	-35.9	-13	PASS
GPRS1900	810	1000~3000MHz	2505.4	-35.93	-13	PASS
GSM1900	810	3000~18000MHz	3819.5	-44.2	-13	PASS
GPRS1900	810	3000~18000MHz	3819	-45.85	-13	PASS
EGPRS1900	810	0.009~0.15MHz	0.04	-50.74	-43	PASS
EGPRS1900	810	0.15~30MHz	0.15	-52.56	-33	PASS
EGPRS1900	810	30~1000MHz	202.11	-45.17	-13	PASS
EGPRS1900	810	1000~3000MHz	2496.33	-35.83	-13	PASS
EGPRS1900	810	3000~18000MHz	3819.5	-44.68	-13	PASS

Test Graphs



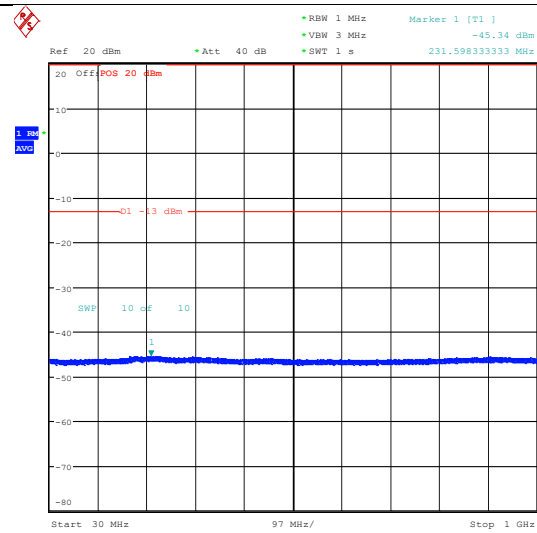
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GPRS1900-512-0-0.009~0.15MHz-PASS

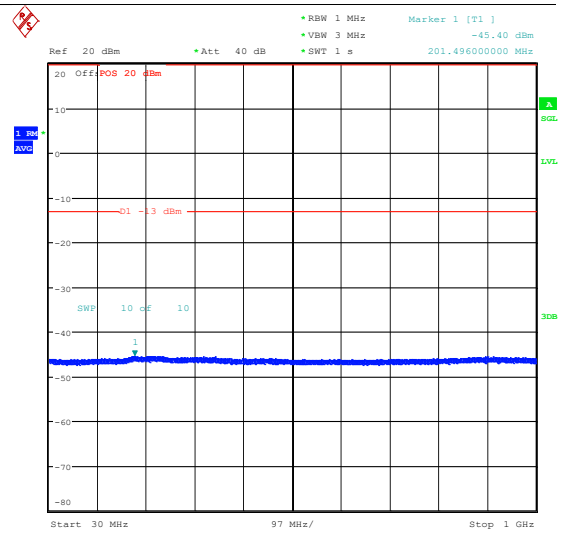


GSM1900-512-0-0.15~30MHz-PASS

GPRS1900-512-0-0.15~30MHz-PASS



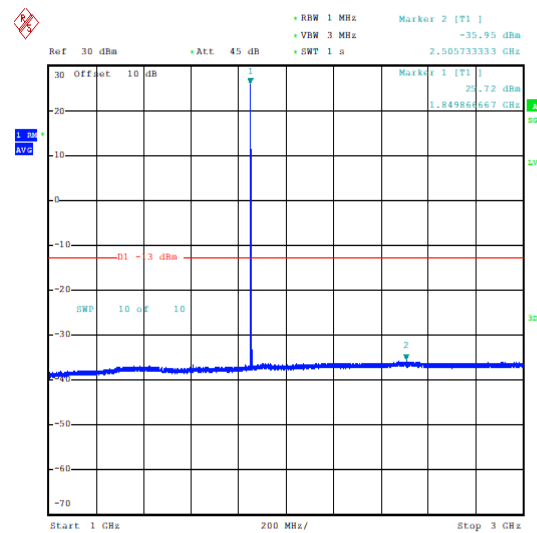
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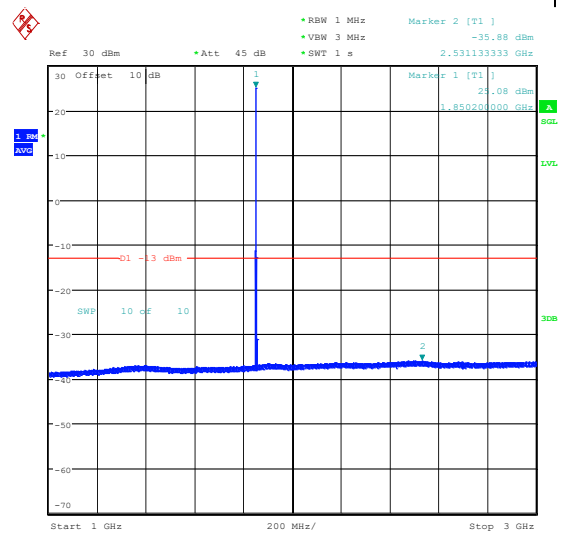
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GPRS1900-512-0-30~1000MHz-PASS



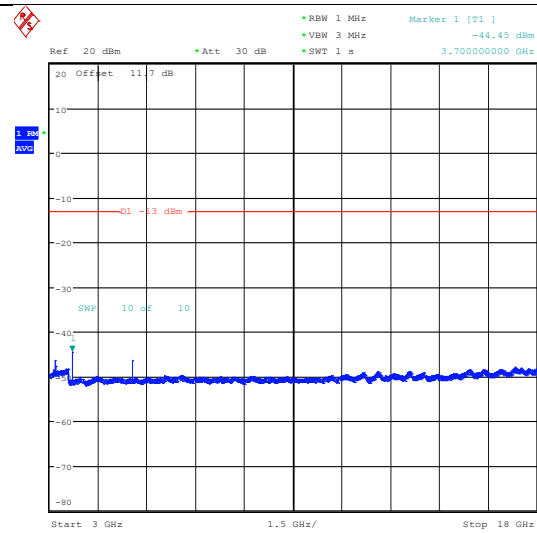
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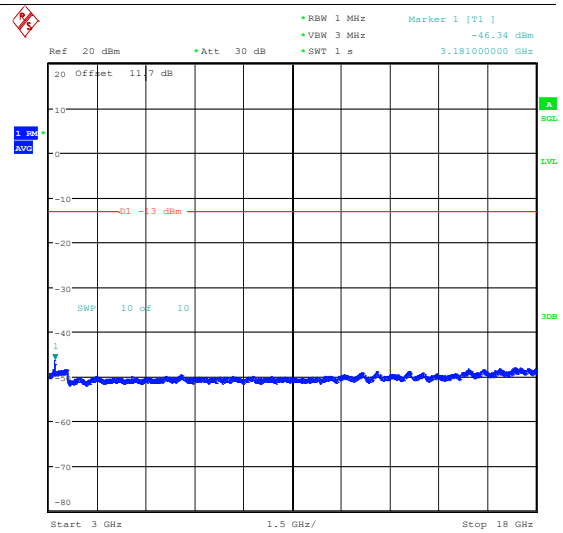
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GPRS1900-512-0-1000~3000MHz-PASS



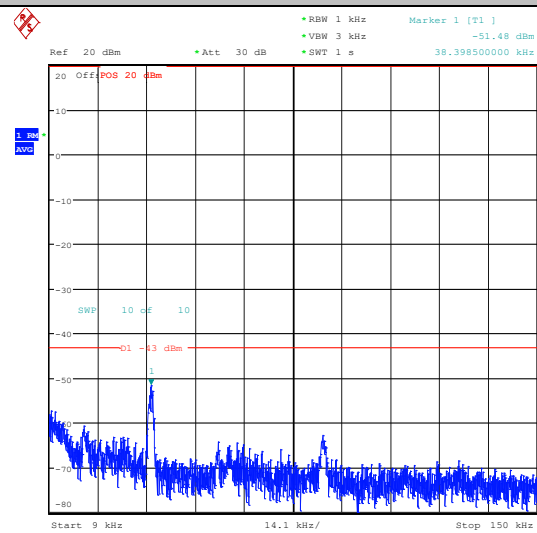
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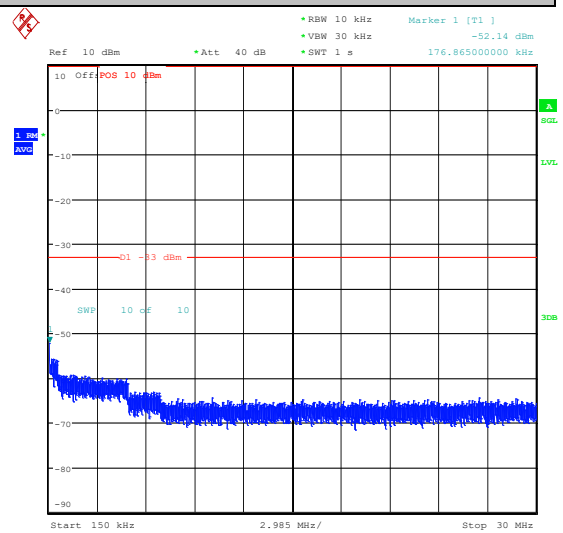
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GSM1900-512-0-3000~18000MHz-PASS

GPRS1900-512-0-3000~18000MHz-PASS



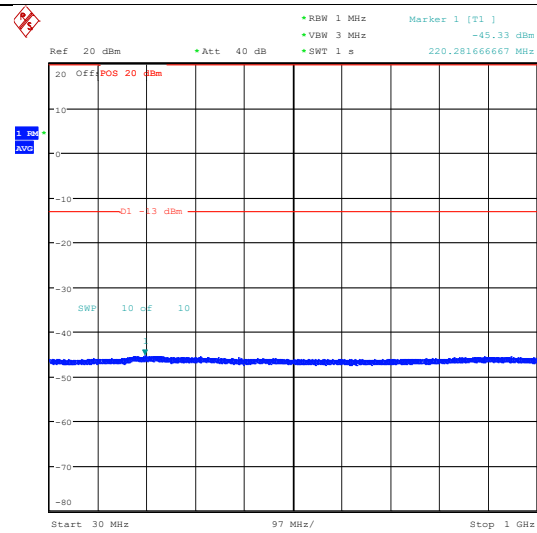
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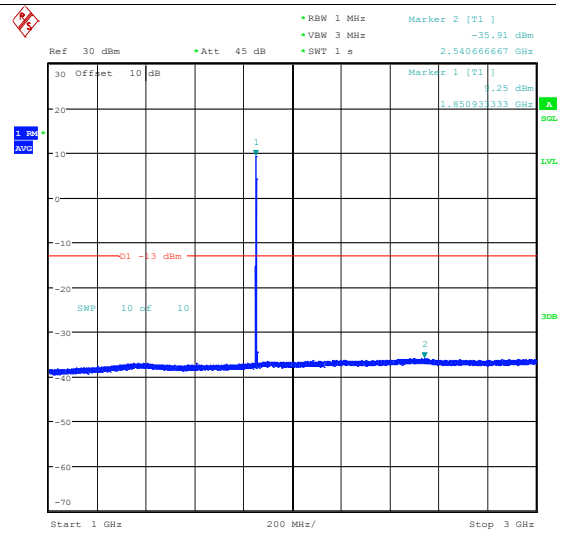
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EGPRS1900-512-2-0.009~0.15MHz-PASS

EGPRS1900-512-2-0.15~30MHz-PASS



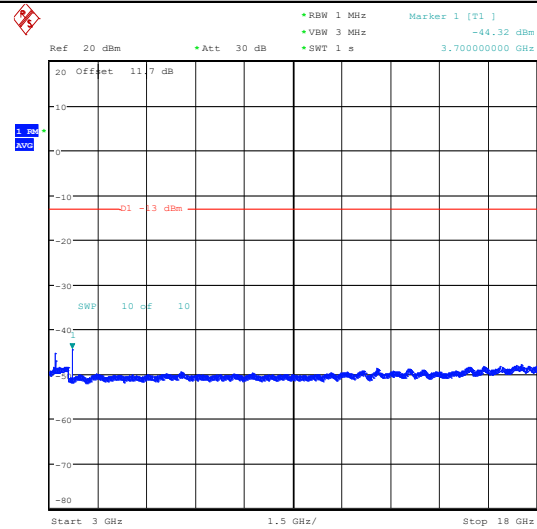
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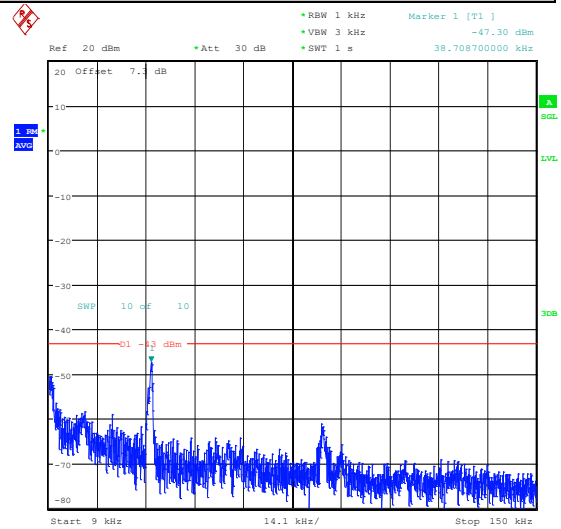
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EGPRS1900-512-2-30~1000MHz-PASS

EGPRS1900-512-2-1000~3000MHz-PASS



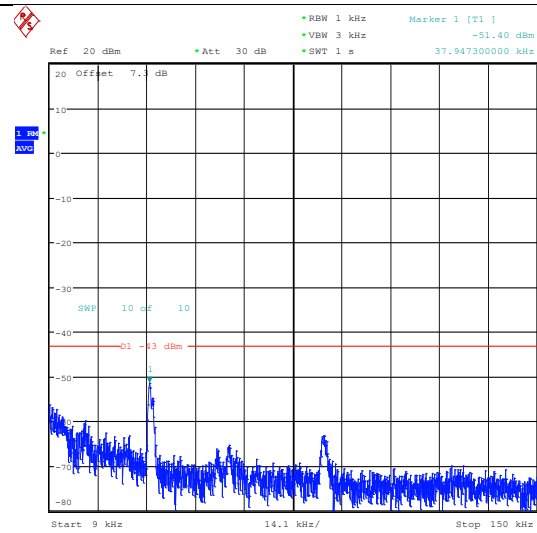
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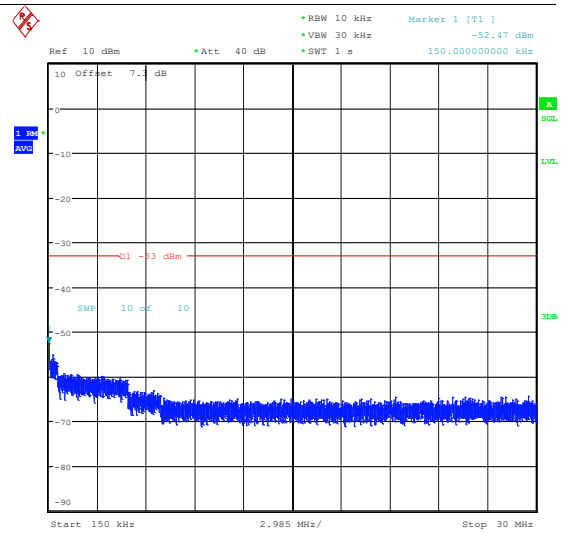
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EGPRS1900-512-2-3000~18000MHz-PASS

GSM1900-661-0-0.009~0.15MHz-PASS



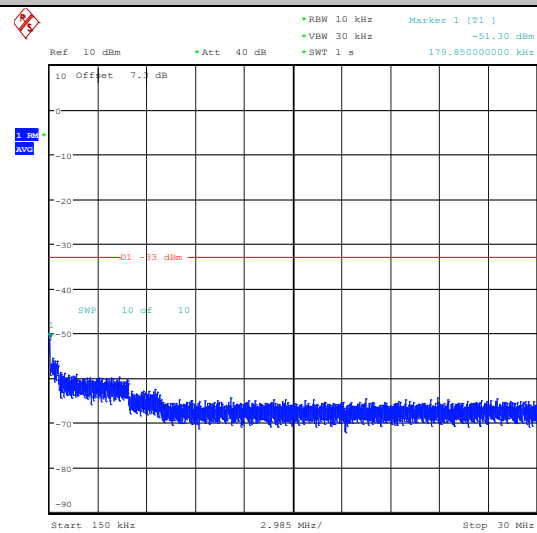
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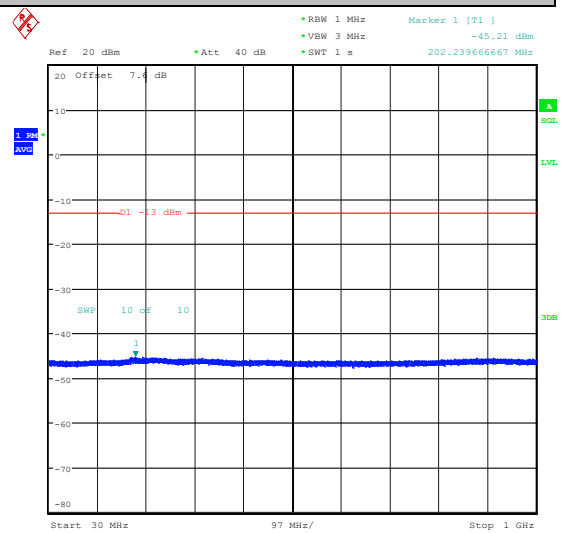
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GPRS1900-661-0-0.009~0.15MHz-PASS

GSM1900-661-0-0.15~30MHz-PASS



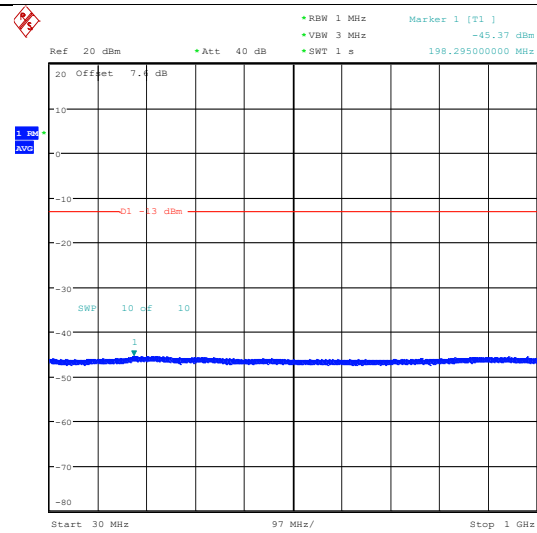
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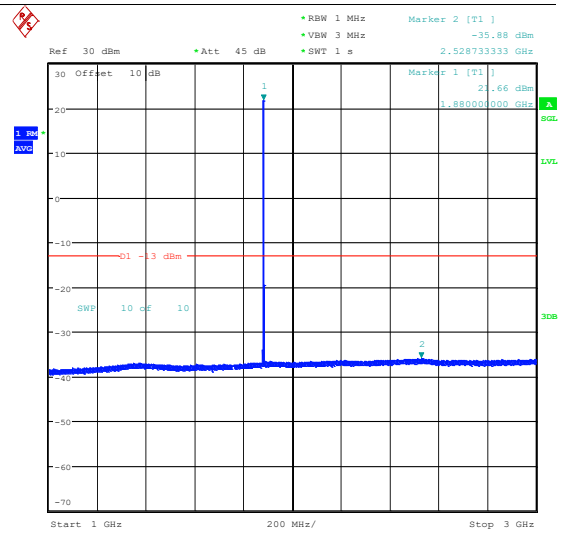
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GPRS1900-661-0-0.15~30MHz-PASS

GSM1900-661-0-30~1000MHz-PASS



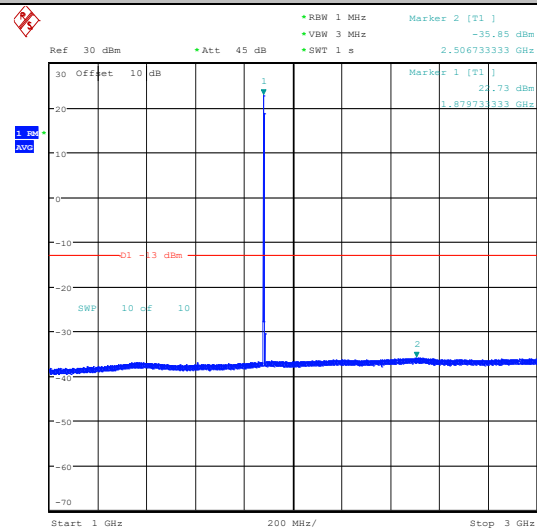
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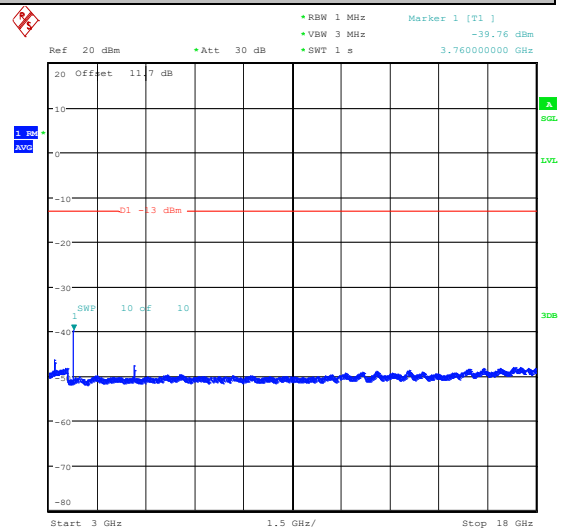
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GPRS1900-661-0-30~1000MHz-PASS

GSM1900-661-0-1000~3000MHz-PASS



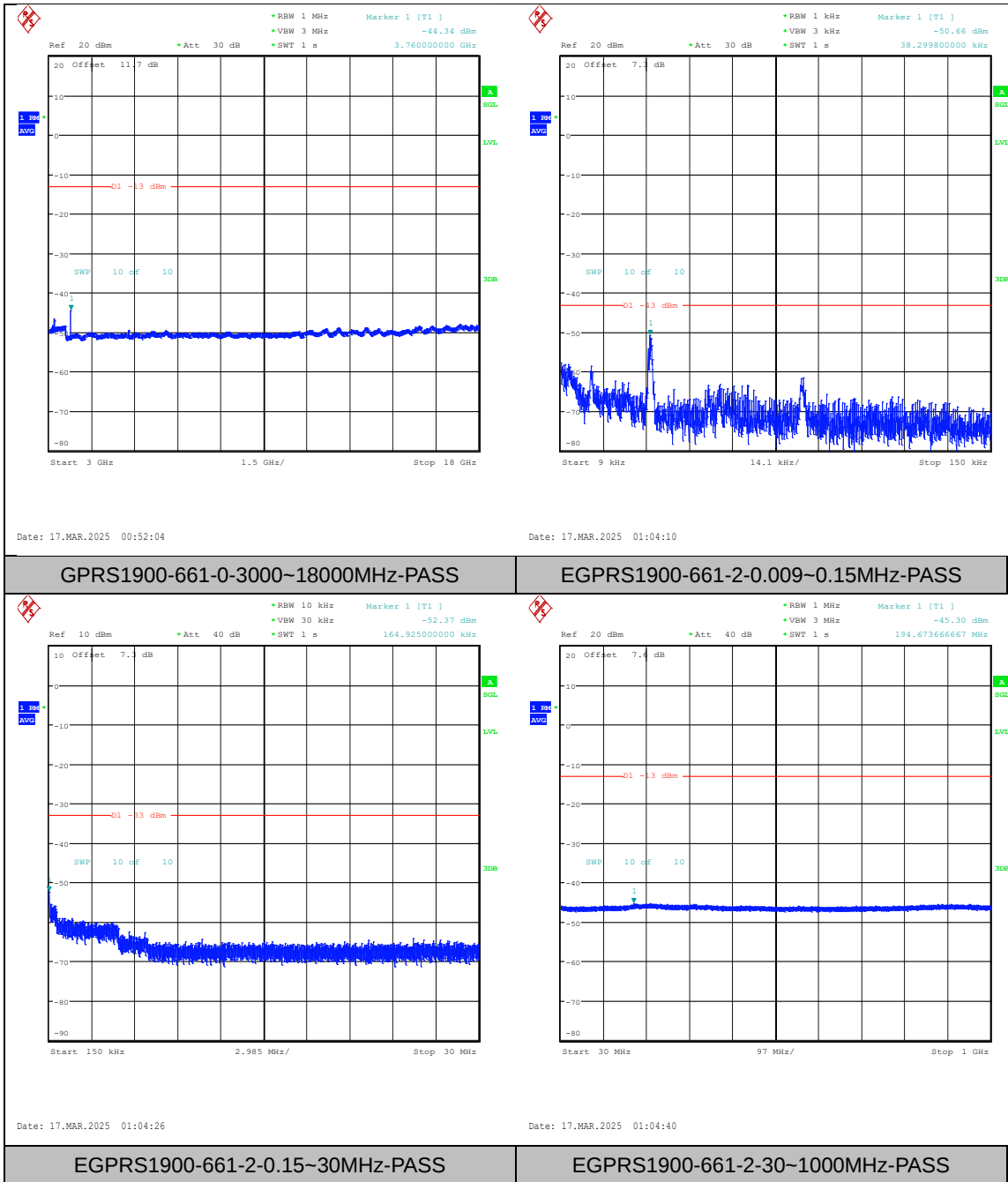
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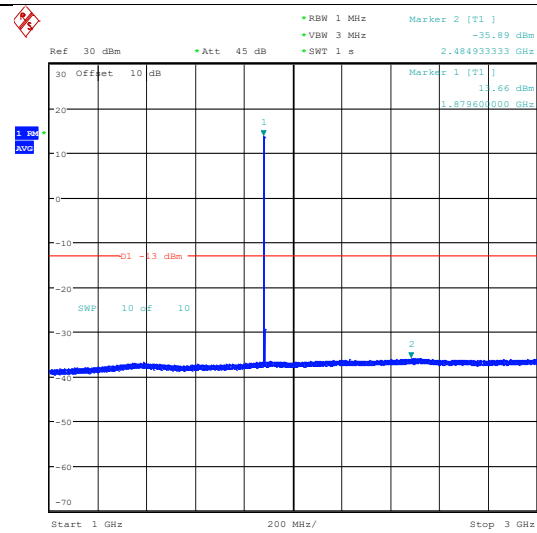


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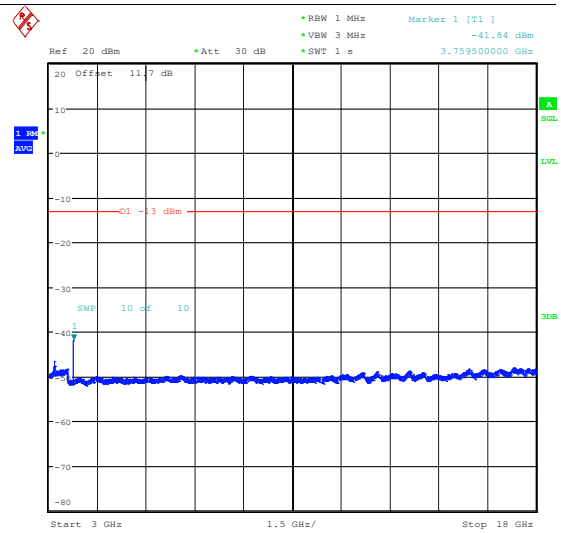
GPRS1900-661-0-1000~3000MHz-PASS

GSM1900-661-0-3000~18000MHz-PASS





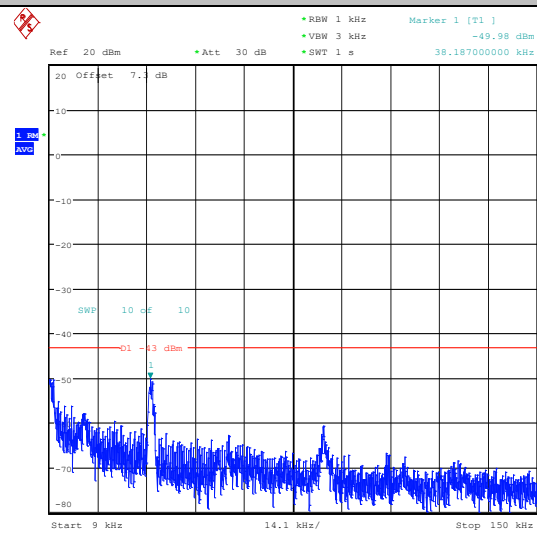
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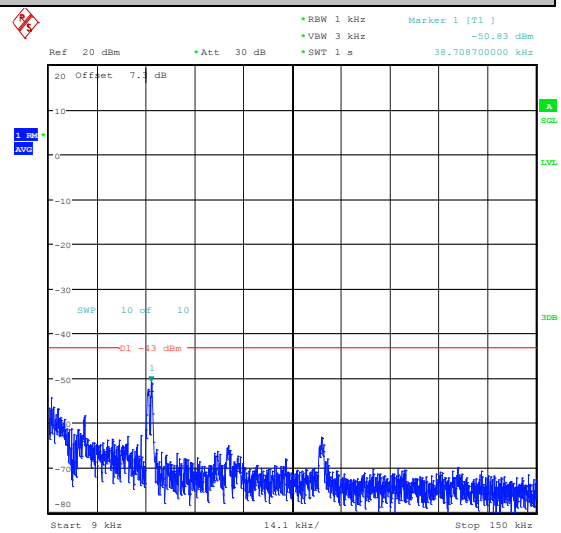
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EGPRS1900-661-2-1000~3000MHz-PASS

EGPRS1900-661-2-3000~18000MHz-PASS



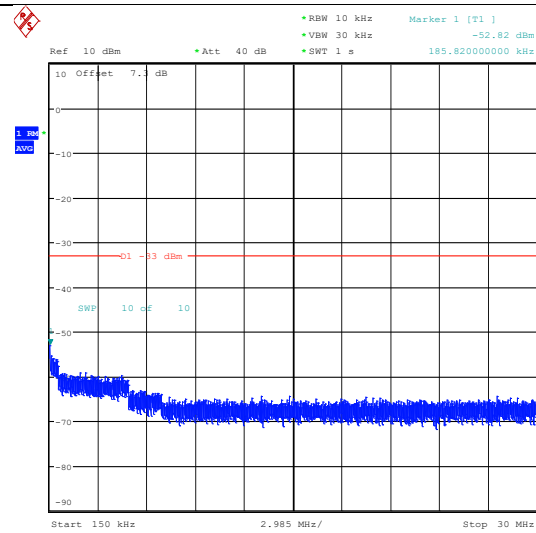
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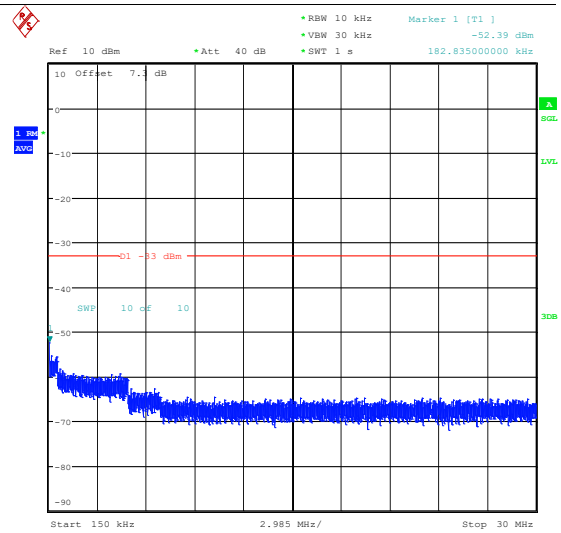
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GSM1900-810-0-0.009~0.15MHz-PASS

GPRS1900-810-0-0.009~0.15MHz-PASS



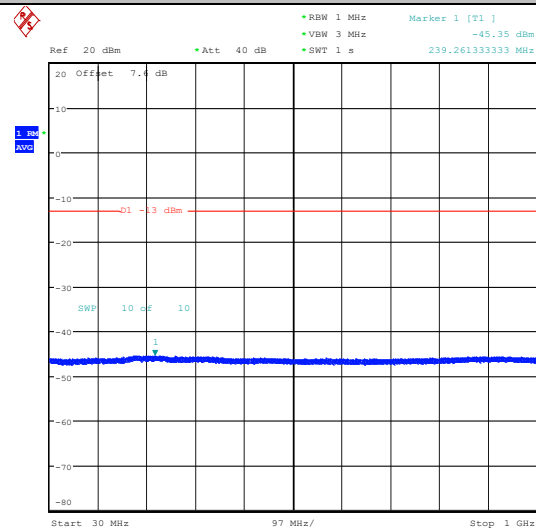
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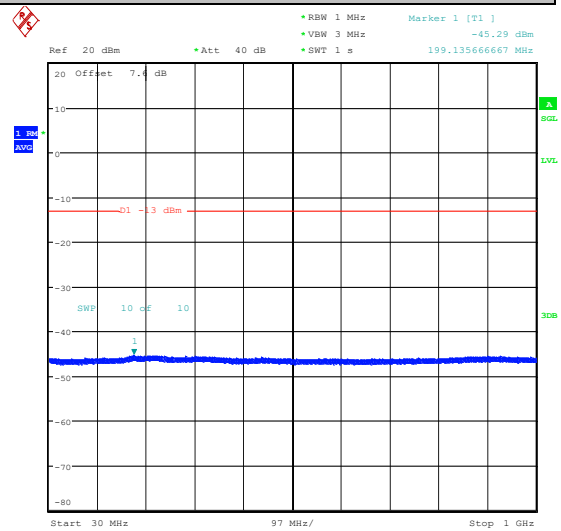
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GSM1900-810-0-0.15~30MHz-PASS

GPRS1900-810-0-0.15~30MHz-PASS



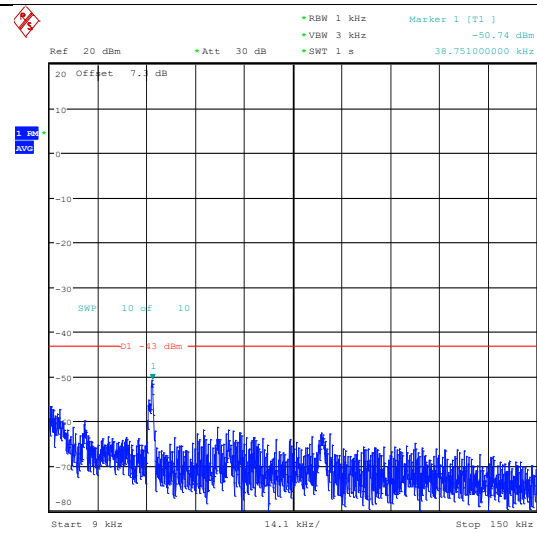
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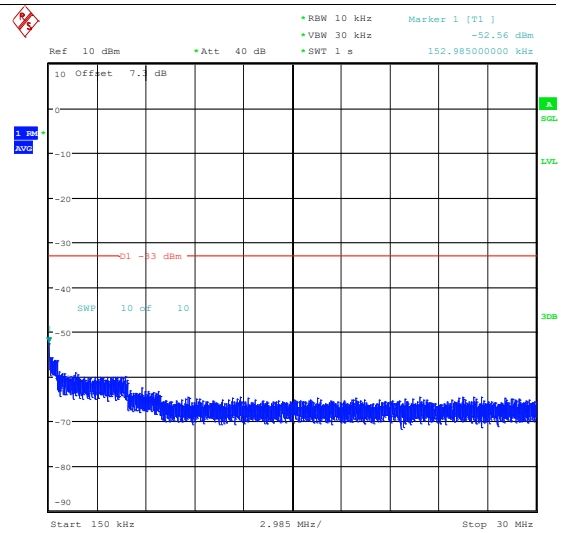
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GSM1900-810-0-30~1000MHz-PASS

GPRS1900-810-0-30~1000MHz-PASS



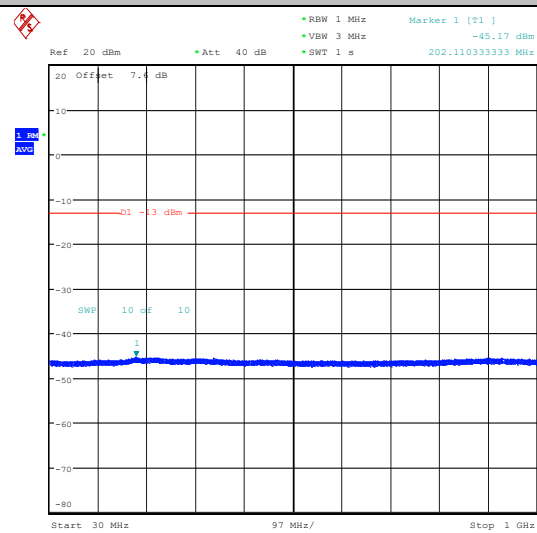
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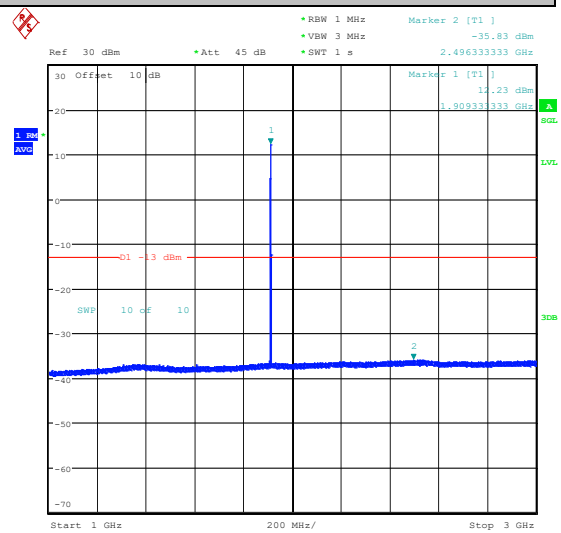
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EGPRS1900-810-2-0.009~0.15MHz-PASS

EGPRS1900-810-2-0.15~30MHz-PASS



Date: 17.MAR.2025 01:05:54



Date: 17.MAR.2025 01:06:09

EGPRS1900-810-2-30~1000MHz-PASS

EGPRS1900-810-2-1000~3000MHz-PASS

Appendix F: Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM1900	512	VN	NT	-15.08	-0.008150	±2.5	PASS
GSM1900	512	VL	NT	-16.72	-0.009037	±2.5	PASS
GSM1900	512	VH	NT	-18.60	-0.010053	±2.5	PASS
GPRS1900	512	VN	NT	-18.73	-0.010123	±2.5	PASS
GPRS1900	512	VL	NT	-20.15	-0.010891	±2.5	PASS
GPRS1900	512	VH	NT	-18.05	-0.009756	±2.5	PASS
EGPRS1900	512	VN	NT	-10.40	-0.005621	±2.5	PASS
EGPRS1900	512	VL	NT	-12.20	-0.006594	±2.5	PASS
EGPRS1900	512	VH	NT	-7.33	-0.003962	±2.5	PASS
GSM1900	661	VN	NT	-15.53	-0.008261	±2.5	PASS
GSM1900	661	VL	NT	-17.66	-0.009394	±2.5	PASS
GSM1900	661	VH	NT	-16.01	-0.008516	±2.5	PASS
GPRS1900	661	VN	NT	-13.20	-0.007021	±2.5	PASS
GPRS1900	661	VL	NT	-14.37	-0.007644	±2.5	PASS
GPRS1900	661	VH	NT	-19.24	-0.010234	±2.5	PASS
EGPRS1900	661	VN	NT	-12.46	-0.006628	±2.5	PASS
EGPRS1900	661	VL	NT	-7.23	-0.003846	±2.5	PASS
EGPRS1900	661	VH	NT	-7.78	-0.004138	±2.5	PASS
GSM1900	810	VN	NT	-13.17	-0.006896	±2.5	PASS
GSM1900	810	VL	NT	-12.01	-0.006289	±2.5	PASS
GSM1900	810	VH	NT	-12.40	-0.006493	±2.5	PASS
GPRS1900	810	VN	NT	-15.40	-0.008064	±2.5	PASS
GPRS1900	810	VL	NT	-18.34	-0.009603	±2.5	PASS
GPRS1900	810	VH	NT	-7.88	-0.004126	±2.5	PASS
EGPRS1900	810	VN	NT	-12.11	-0.006341	±2.5	PASS
EGPRS1900	810	VL	NT	-6.59	-0.003451	±2.5	PASS
EGPRS1900	810	VH	NT	-6.55	-0.003430	±2.5	PASS

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Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM1900	512	NV	-30	-19.60	-0.010593	±2.5	PASS
GSM1900	512	NV	-20	-19.73	-0.010664	±2.5	PASS
GSM1900	512	NV	-10	-18.95	-0.010242	±2.5	PASS
GSM1900	512	NV	0	-13.08	-0.007070	±2.5	PASS
GSM1900	512	NV	10	-21.28	-0.011501	±2.5	PASS
GSM1900	512	NV	20	-21.05	-0.011377	±2.5	PASS
GSM1900	512	NV	30	-24.15	-0.013053	±2.5	PASS
GSM1900	512	NV	40	-23.73	-0.012826	±2.5	PASS
GSM1900	512	NV	50	-19.79	-0.010696	±2.5	PASS
GPRS1900	512	NV	-30	-14.88	-0.008042	±2.5	PASS
GPRS1900	512	NV	-20	-16.59	-0.008967	±2.5	PASS
GPRS1900	512	NV	-10	-14.59	-0.007886	±2.5	PASS
GPRS1900	512	NV	0	-13.75	-0.007432	±2.5	PASS
GPRS1900	512	NV	10	-22.89	-0.012372	±2.5	PASS
GPRS1900	512	NV	20	-21.86	-0.011815	±2.5	PASS
GPRS1900	512	NV	30	-10.72	-0.005794	±2.5	PASS
GPRS1900	512	NV	40	-11.98	-0.006475	±2.5	PASS
GPRS1900	512	NV	50	-11.75	-0.006351	±2.5	PASS
EGPRS1900	512	NV	-30	-5.17	-0.002794	±2.5	PASS
EGPRS1900	512	NV	-20	-12.98	-0.007015	±2.5	PASS
EGPRS1900	512	NV	-10	-10.27	-0.005551	±2.5	PASS
EGPRS1900	512	NV	0	-10.01	-0.005410	±2.5	PASS
EGPRS1900	512	NV	10	-14.69	-0.007940	±2.5	PASS
EGPRS1900	512	NV	20	-9.33	-0.005043	±2.5	PASS
EGPRS1900	512	NV	30	-7.30	-0.003946	±2.5	PASS
EGPRS1900	512	NV	40	-7.75	-0.004189	±2.5	PASS
EGPRS1900	512	NV	50	-14.14	-0.007642	±2.5	PASS
GSM1900	661	NV	-30	-15.66	-0.008330	±2.5	PASS
GSM1900	661	NV	-20	-16.30	-0.008670	±2.5	PASS
GSM1900	661	NV	-10	-14.66	-0.007798	±2.5	PASS
GSM1900	661	NV	0	-16.01	-0.008516	±2.5	PASS
GSM1900	661	NV	10	-19.44	-0.010340	±2.5	PASS
GSM1900	661	NV	20	-17.21	-0.009154	±2.5	PASS
GSM1900	661	NV	30	-14.63	-0.007782	±2.5	PASS
GSM1900	661	NV	40	-17.53	-0.009324	±2.5	PASS
GSM1900	661	NV	50	-20.37	-0.010835	±2.5	PASS

GPRS1900	661	NV	-30	-20.70	-0.011011	±2.5	PASS
GPRS1900	661	NV	-20	-15.69	-0.008346	±2.5	PASS
GPRS1900	661	NV	-10	-14.85	-0.007899	±2.5	PASS
GPRS1900	661	NV	0	-15.37	-0.008176	±2.5	PASS
GPRS1900	661	NV	10	-15.37	-0.008176	±2.5	PASS
GPRS1900	661	NV	20	-17.69	-0.009410	±2.5	PASS
GPRS1900	661	NV	30	-22.66	-0.012053	±2.5	PASS
GPRS1900	661	NV	40	-16.21	-0.008622	±2.5	PASS
GPRS1900	661	NV	50	-16.56	-0.008809	±2.5	PASS
EGPRS1900	661	NV	-30	-9.85	-0.005239	±2.5	PASS
EGPRS1900	661	NV	-20	-10.36	-0.005511	±2.5	PASS
EGPRS1900	661	NV	-10	-6.26	-0.003330	±2.5	PASS
EGPRS1900	661	NV	0	-2.91	-0.001548	±2.5	PASS
EGPRS1900	661	NV	10	-6.55	-0.003484	±2.5	PASS
EGPRS1900	661	NV	20	-8.33	-0.004431	±2.5	PASS
EGPRS1900	661	NV	30	-8.78	-0.004670	±2.5	PASS
EGPRS1900	661	NV	40	-11.49	-0.006112	±2.5	PASS
EGPRS1900	661	NV	50	-7.46	-0.003968	±2.5	PASS
GSM1900	810	NV	-30	-14.98	-0.007844	±2.5	PASS
GSM1900	810	NV	-20	-12.14	-0.006357	±2.5	PASS
GSM1900	810	NV	-10	-15.79	-0.008268	±2.5	PASS
GSM1900	810	NV	0	-14.40	-0.007540	±2.5	PASS
GSM1900	810	NV	10	-9.69	-0.005074	±2.5	PASS
GSM1900	810	NV	20	-17.27	-0.009043	±2.5	PASS
GSM1900	810	NV	30	-8.10	-0.004241	±2.5	PASS
GSM1900	810	NV	40	-9.20	-0.004817	±2.5	PASS
GSM1900	810	NV	50	-12.11	-0.006341	±2.5	PASS
GPRS1900	810	NV	-30	-9.62	-0.005037	±2.5	PASS
GPRS1900	810	NV	-20	-13.88	-0.007268	±2.5	PASS
GPRS1900	810	NV	-10	-16.11	-0.008435	±2.5	PASS
GPRS1900	810	NV	0	-13.72	-0.007184	±2.5	PASS
GPRS1900	810	NV	10	-15.17	-0.007943	±2.5	PASS
GPRS1900	810	NV	20	-15.30	-0.008011	±2.5	PASS
GPRS1900	810	NV	30	-9.49	-0.004969	±2.5	PASS
GPRS1900	810	NV	40	-8.62	-0.004514	±2.5	PASS
GPRS1900	810	NV	50	-8.94	-0.004681	±2.5	PASS
EGPRS1900	810	NV	-30	-4.81	-0.002519	±2.5	PASS
EGPRS1900	810	NV	-20	-7.97	-0.004173	±2.5	PASS
EGPRS1900	810	NV	-10	-5.71	-0.002990	±2.5	PASS
EGPRS1900	810	NV	0	-3.84	-0.002011	±2.5	PASS
EGPRS1900	810	NV	10	-6.97	-0.003650	±2.5	PASS

EGPRS1900	810	NV	20	-10.56	-0.005529	±2.5	PASS
EGPRS1900	810	NV	30	-9.75	-0.005105	±2.5	PASS
EGPRS1900	810	NV	40	-15.40	-0.008064	±2.5	PASS
EGPRS1900	810	NV	50	-12.20	-0.006388	±2.5	PASS

Appendix G: Modulation Characteristics

Test Result

Band	Channel	Result	Verdict
GSM1900	512	PASS	PASS
GPRS1900	512	PASS	PASS
EGPRS1900	512	PASS	PASS
GSM1900	661	PASS	PASS
GPRS1900	661	PASS	PASS
EGPRS1900	661	PASS	PASS
GSM1900	810	PASS	PASS
GPRS1900	810	PASS	PASS
EGPRS1900	810	PASS	PASS

Test Graphs

