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Appendix B.1

GSM 850&1900



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT1

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
GSM850	128	32.81	28.56	38.45	PASS
GSM850	190	33.25	29	38.45	PASS
GSM850	251	32.53	28.28	38.45	PASS

ANT2

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	30.07	29.97	33.00	PASS
GSM1900	661	29.98	29.88	33.00	PASS
GSM1900	810	30.11	30.01	33.00	PASS



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Wireless Laboratories

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Band	Channel	Slot	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	27.11	22.86	38.45	PASS
EGPRS850	128	2	24.62	20.37	38.45	PASS
EGPRS850	128	3	22.85	18.6	38.45	PASS
EGPRS850	128	4	21.02	16.77	38.45	PASS
EGPRS850	190	1	26.43	22.18	38.45	PASS
EGPRS850	190	2	24.42	20.17	38.45	PASS
EGPRS850	190	3	22.65	18.4	38.45	PASS
EGPRS850	190	4	20.83	16.58	38.45	PASS
EGPRS850	251	1	26.54	22.29	38.45	PASS
EGPRS850	251	2	24.76	20.51	38.45	PASS
EGPRS850	251	3	22.81	18.56	38.45	PASS
EGPRS850	251	4	20.89	16.64	38.45	PASS
Band	Channel	Slot	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	25.88	25.78	33.00	PASS
EGPRS1900	512	2	23.68	23.58	33.00	PASS
EGPRS1900	512	3	21.82	21.72	33.00	PASS
EGPRS1900	512	4	20.11	20.01	33.00	PASS
EGPRS1900	661	1	25.92	25.82	33.00	PASS
EGPRS1900	661	2	23.61	23.51	33.00	PASS
EGPRS1900	661	3	21.81	21.71	33.00	PASS
EGPRS1900	661	4	20.06	19.96	33.00	PASS
EGPRS1900	810	1	25.65	25.55	33.00	PASS
EGPRS1900	810	2	23.4	23.3	33.00	PASS
EGPRS1900	810	3	21.62	21.52	33.00	PASS
EGPRS1900	810	4	20.21	20.11	33.00	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	6.22	13	PASS
GSM850	190	5.84	13	PASS
GSM850	251	6.5	13	PASS
EGPRS850	128	12.54	13	PASS
EGPRS850	190	12.54	13	PASS
EGPRS850	251	12.54	13	PASS
GSM1900	512	9.42	13	PASS
GSM1900	661	9.52	13	PASS
GSM1900	810	9.5	13	PASS
EGPRS1900	512	12.84	13	PASS
EGPRS1900	661	12.78	13	PASS
EGPRS1900	810	12.66	13	PASS



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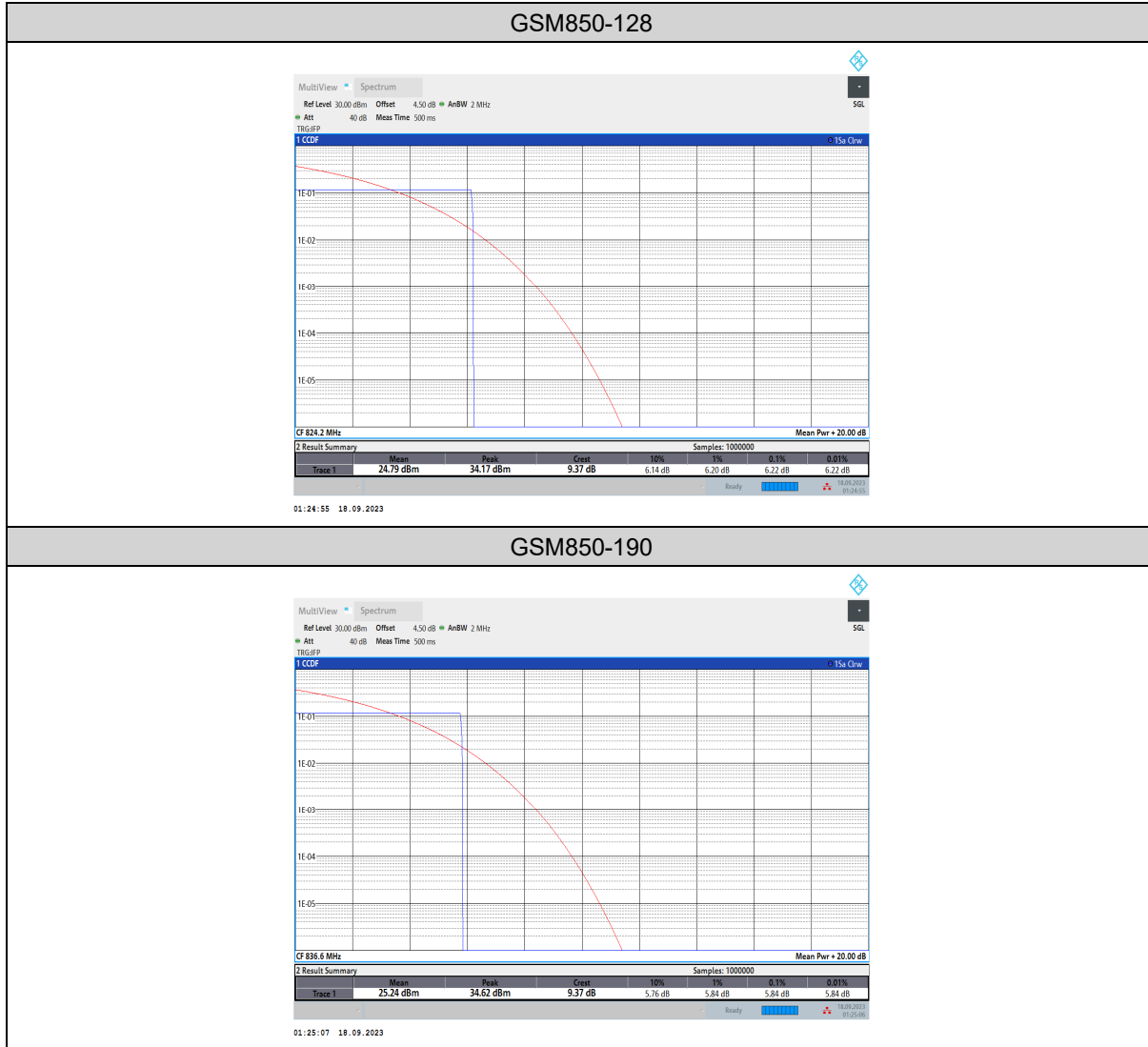
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Test Graphs



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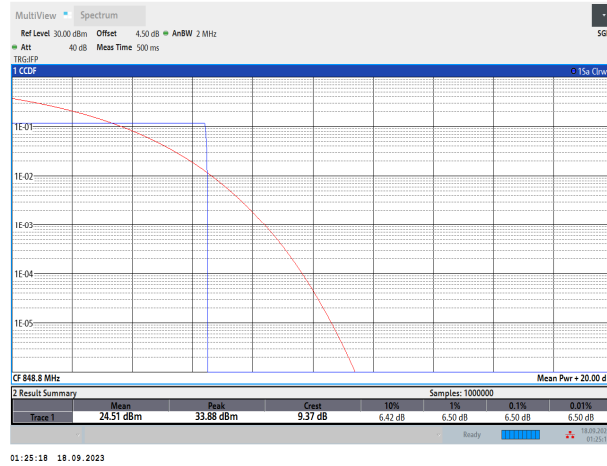
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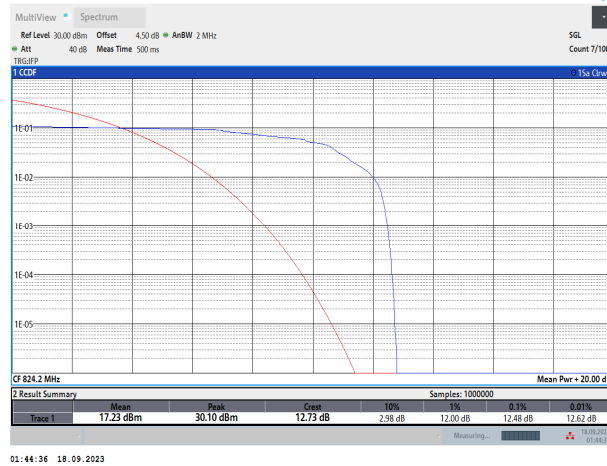
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GSM850-251



EGPRS850-128



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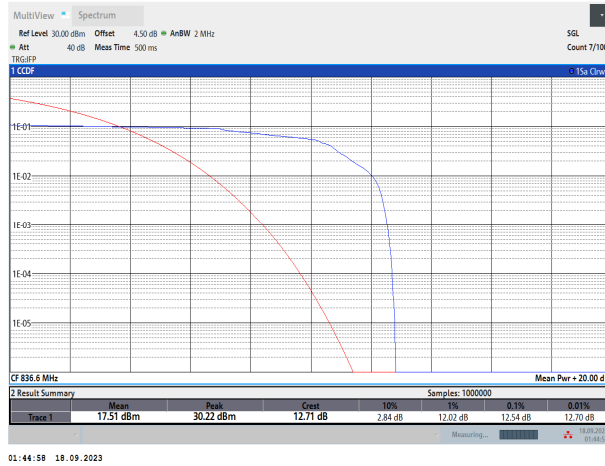
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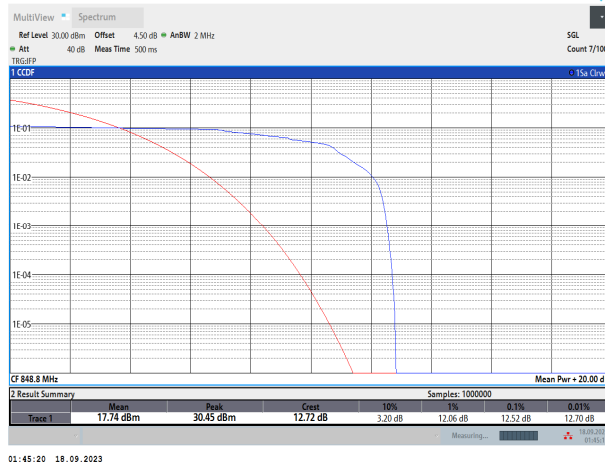
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EGPRS850-190



EGPRS850-251

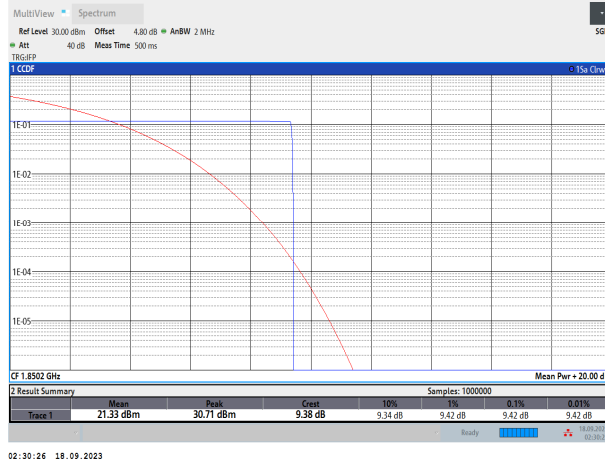


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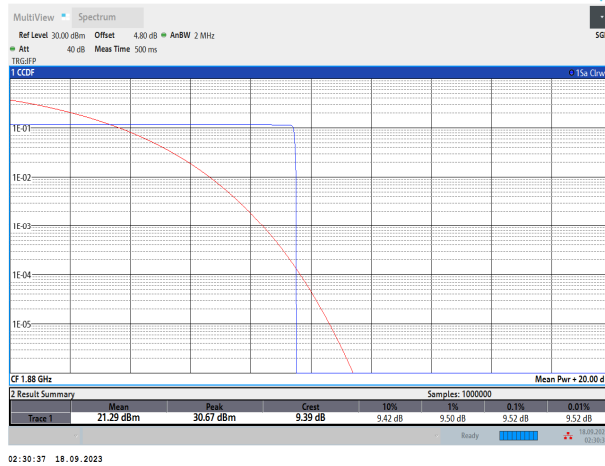
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GSM1900-661



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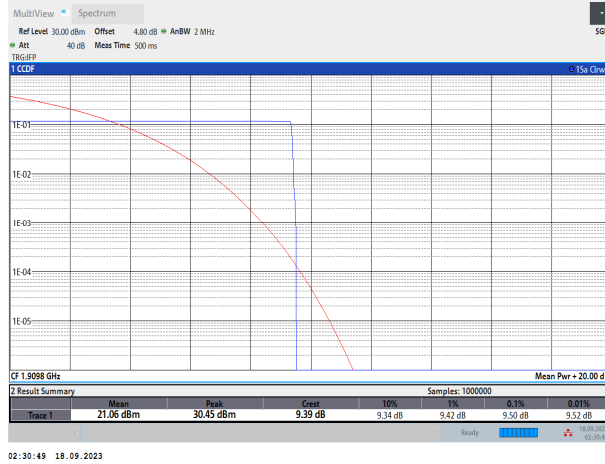
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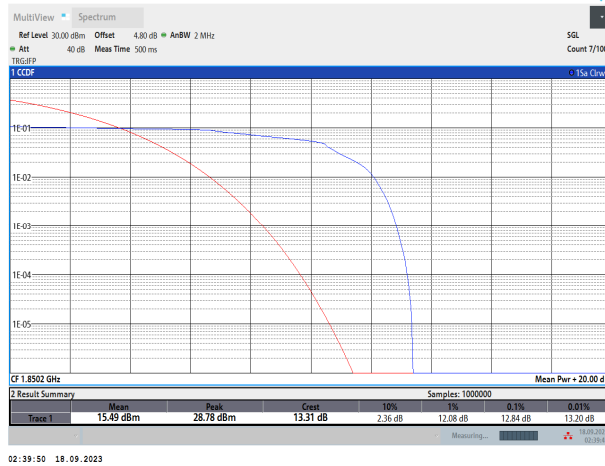
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EGPRS1900-512



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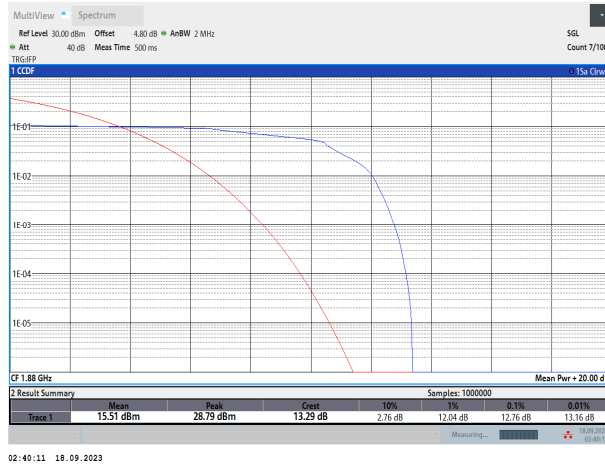
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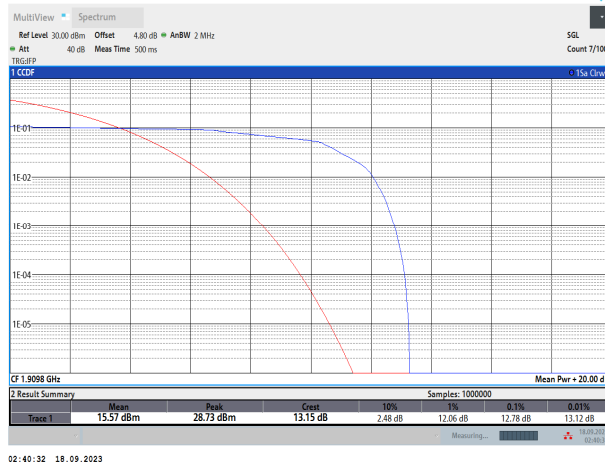
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EGPRS1900-810



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.247	0.32	---	PASS
GSM850	190	0.248	0.32	---	PASS
GSM850	251	0.246	0.32	---	PASS
EGPRS850	128	0.25	0.32	---	PASS
EGPRS850	190	0.247	0.32	---	PASS
EGPRS850	251	0.25	0.33	---	PASS
GSM1900	512	0.244	0.32	---	PASS
GSM1900	661	0.245	0.31	---	PASS
GSM1900	810	0.247	0.31	---	PASS
EGPRS1900	512	0.245	0.31	---	PASS
EGPRS1900	661	0.249	0.32	---	PASS
EGPRS1900	810	0.247	0.32	---	PASS



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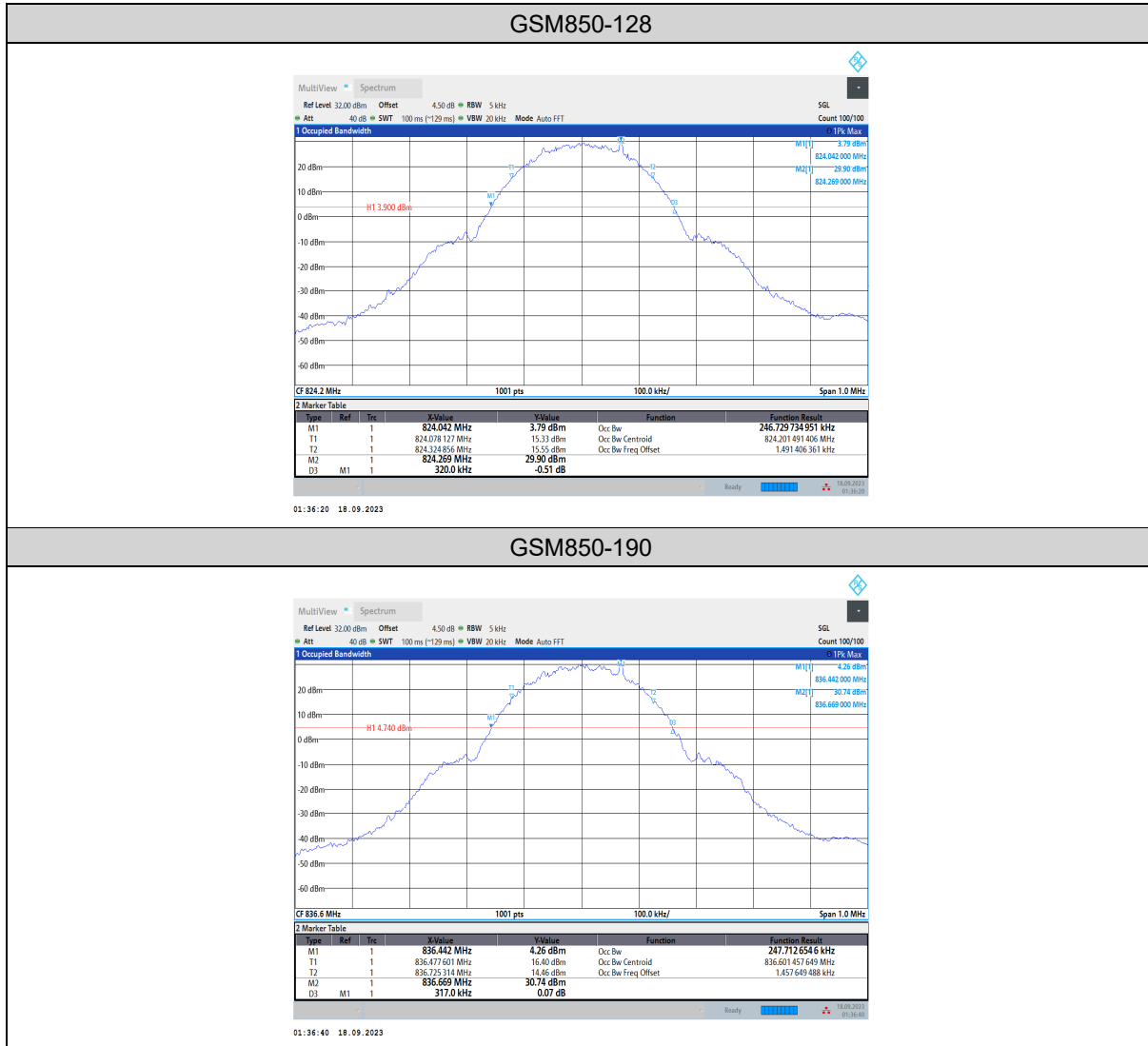
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Test Graphs

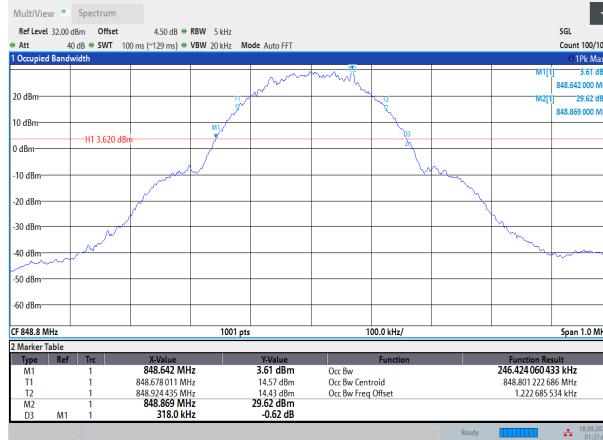


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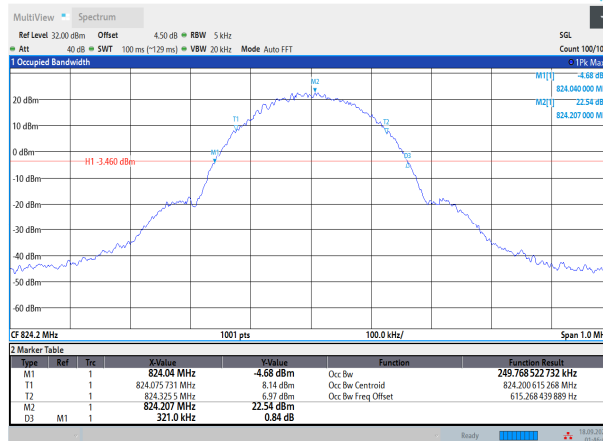
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EGPRS850-128



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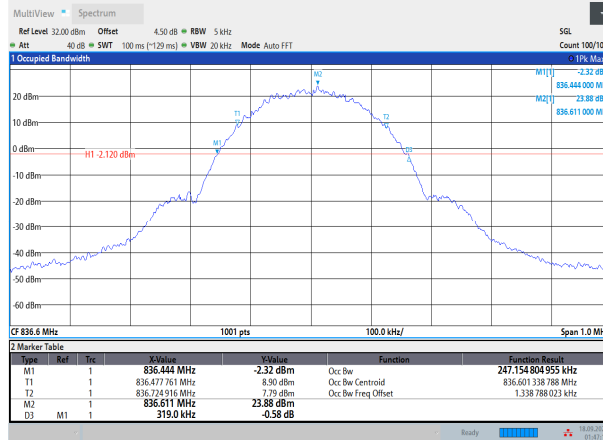
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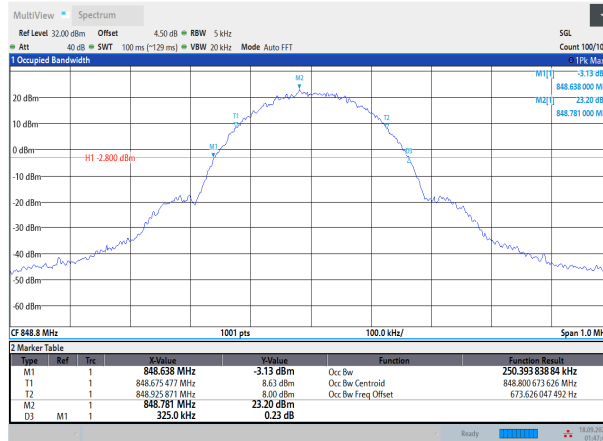
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EGPRS850-190



01:47:15 18.09.2023

EGPRS850-251



01:47:47 18.09.2023



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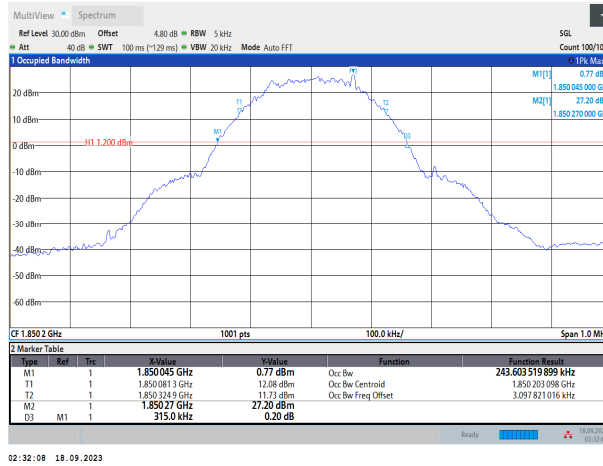
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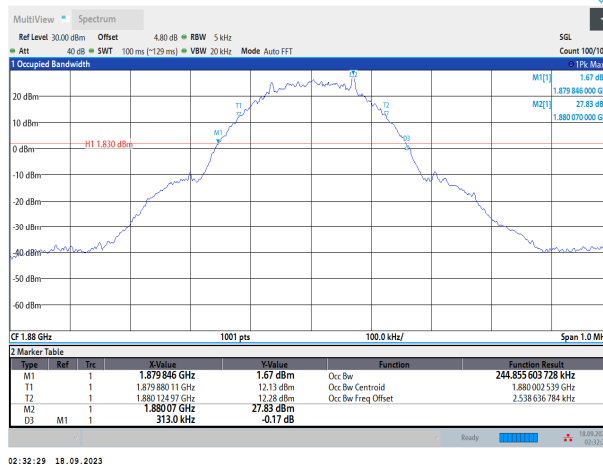
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GSM1900-512



GSM1900-661



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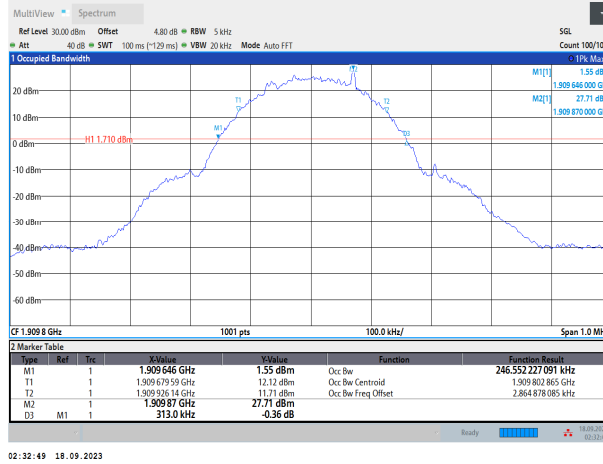
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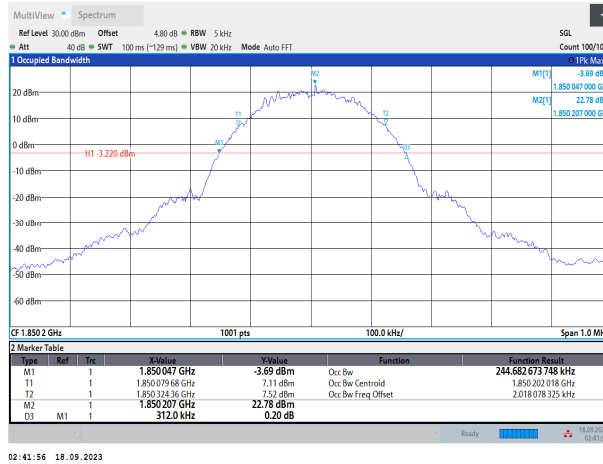
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02:32:49 18.09.2023

EGPRS1900-512



02:41:56 18.09.2023



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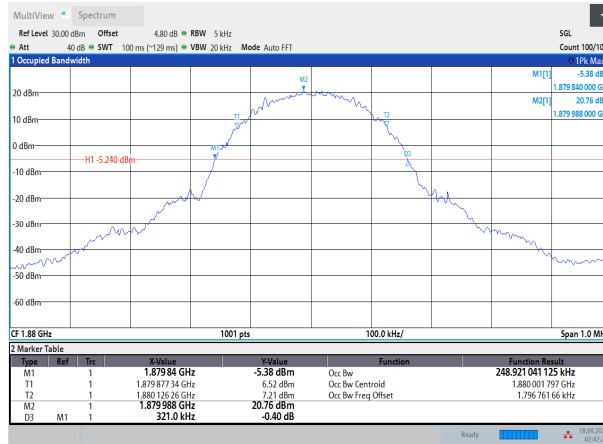
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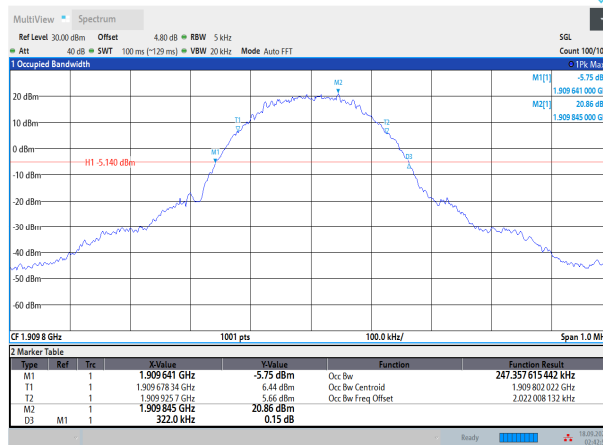
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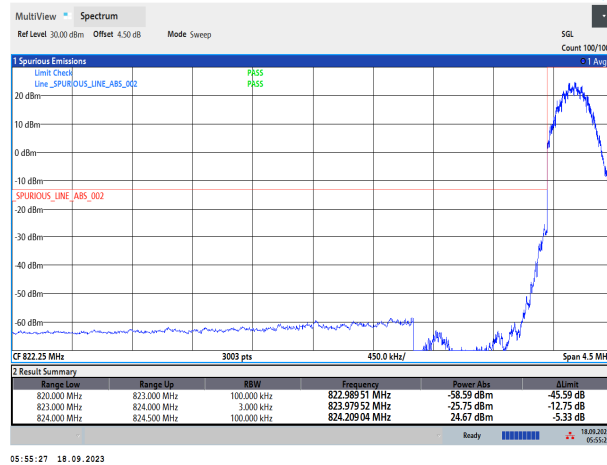


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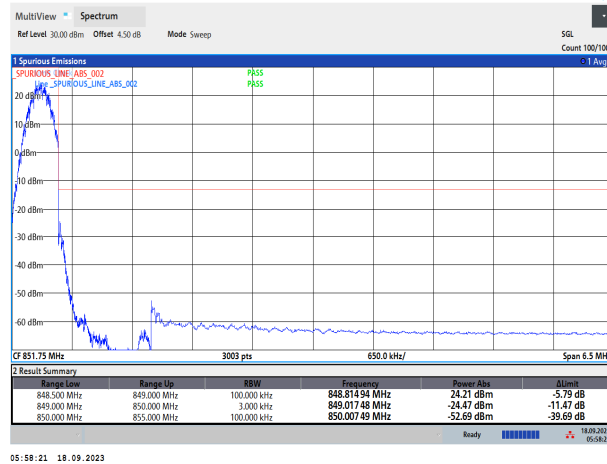
Band Edge

Test Graphs

GSM850-128



GSM850-251



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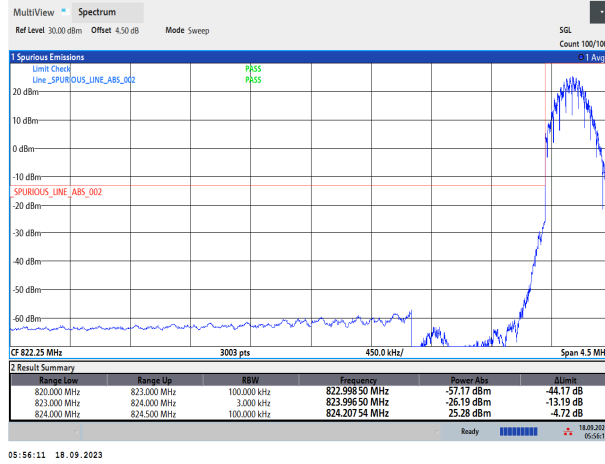
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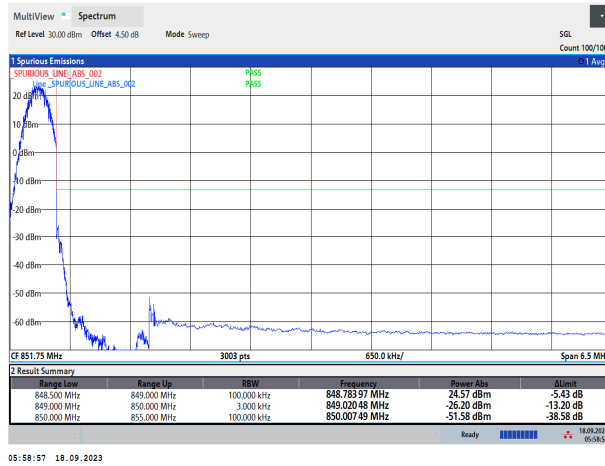
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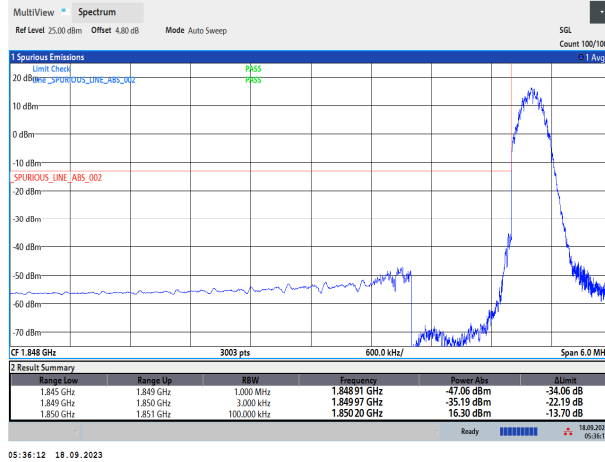
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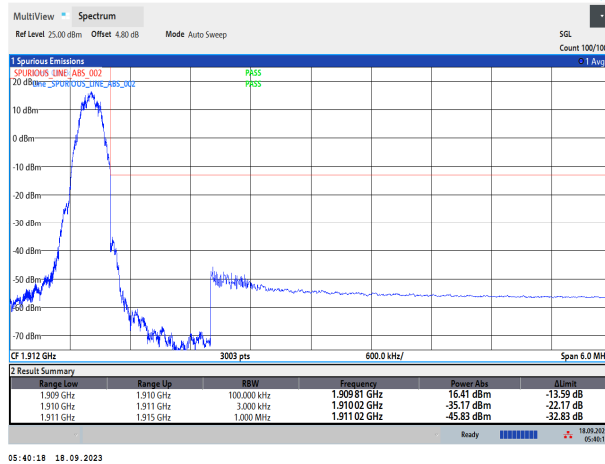
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GSM1900-512



GSM1900-810



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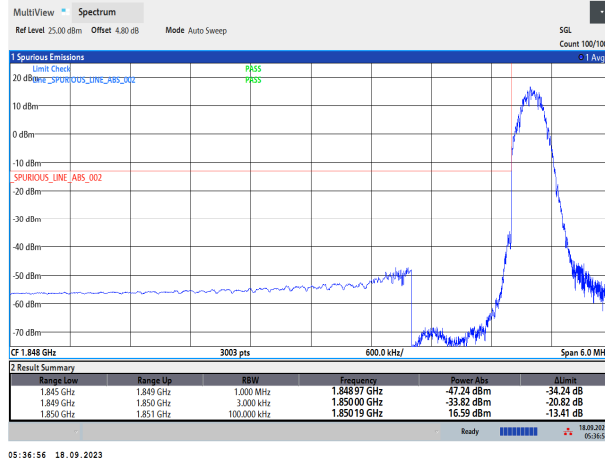
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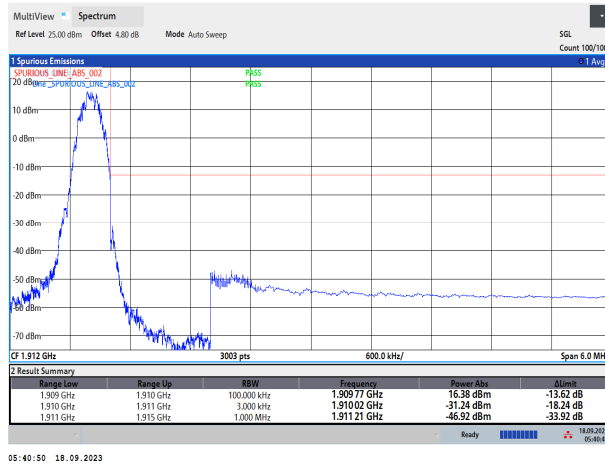
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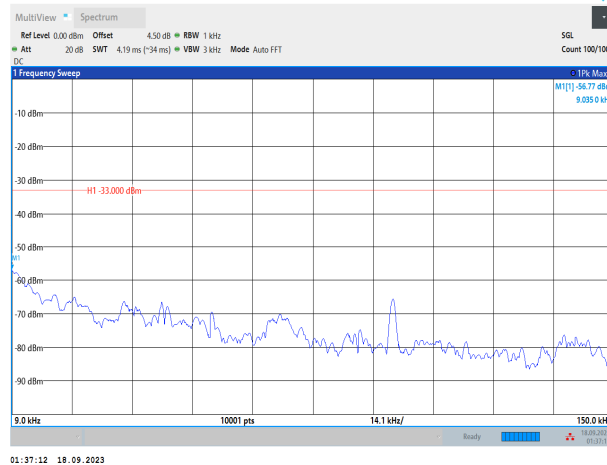
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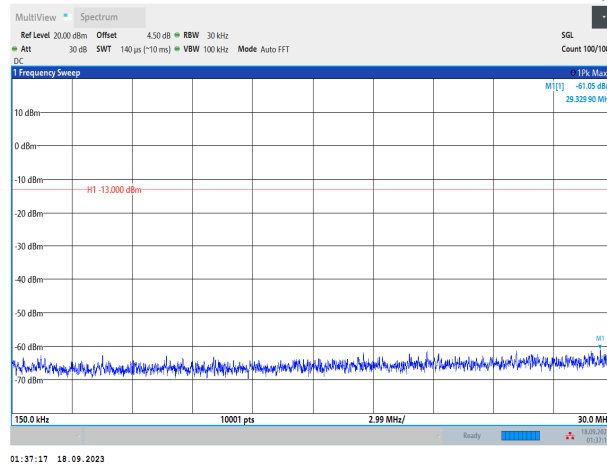
Conducted Spurious Emission

Test Graphs

GSM850-128-0.009~0.15MHz



GSM850-128-0.15~30MHz



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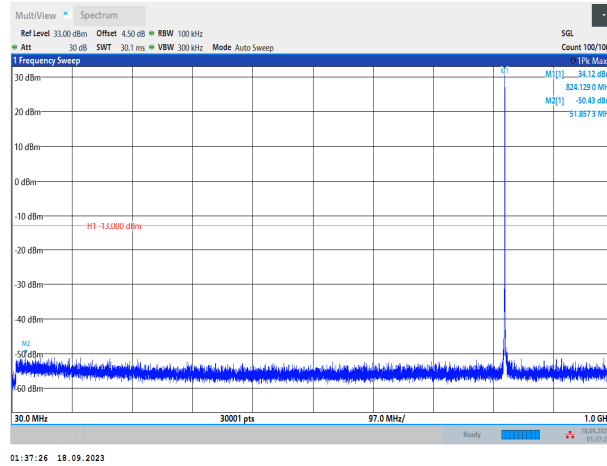
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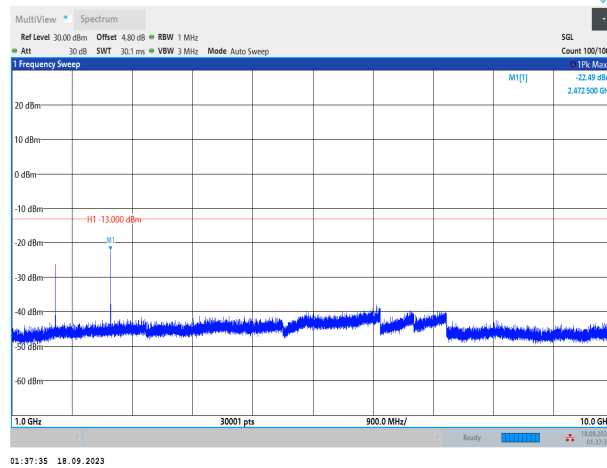
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GSM850-128-30~1000MHz



GSM850-128-1000~10000MHz



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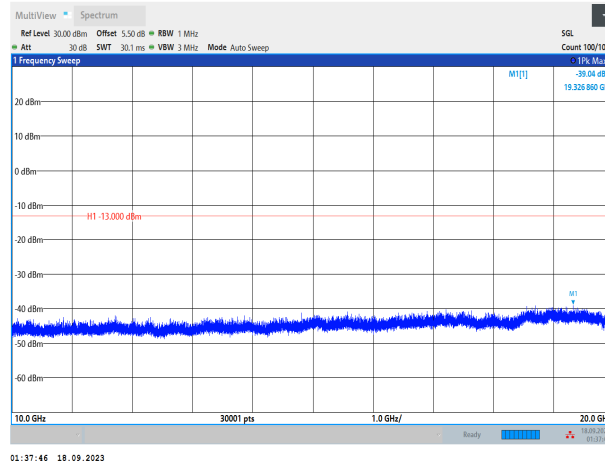
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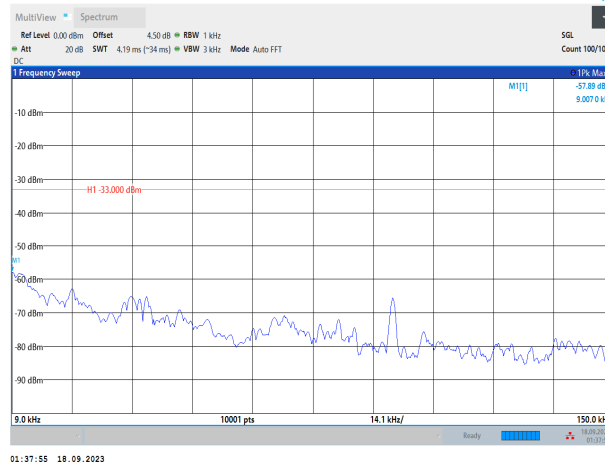
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GSM850-128-10000~20000MHz



GSM850-190-0.009~0.15MHz



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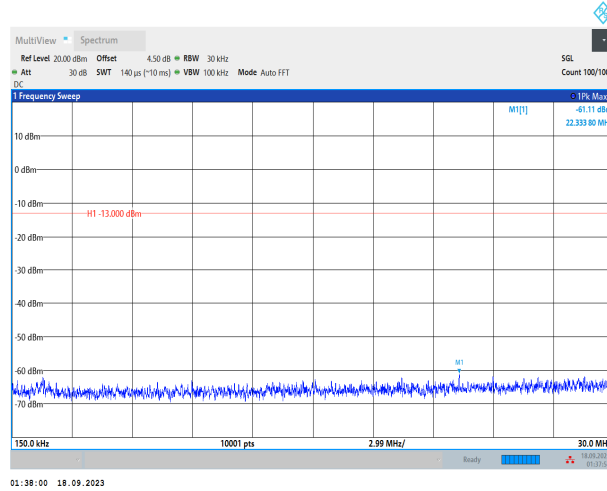
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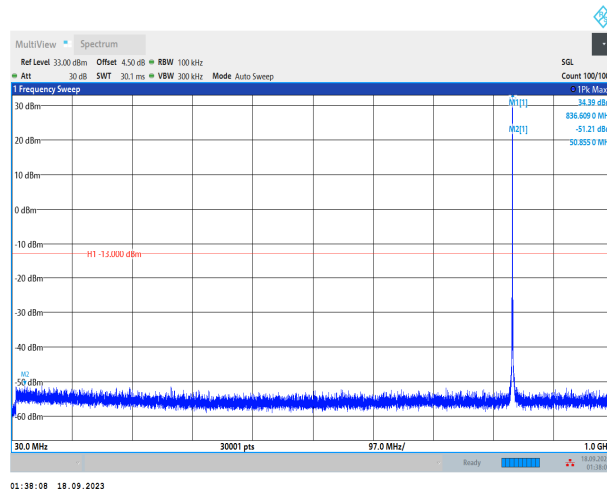
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GSM850-190-0.15~30MHz



GSM850-190-30~1000MHz



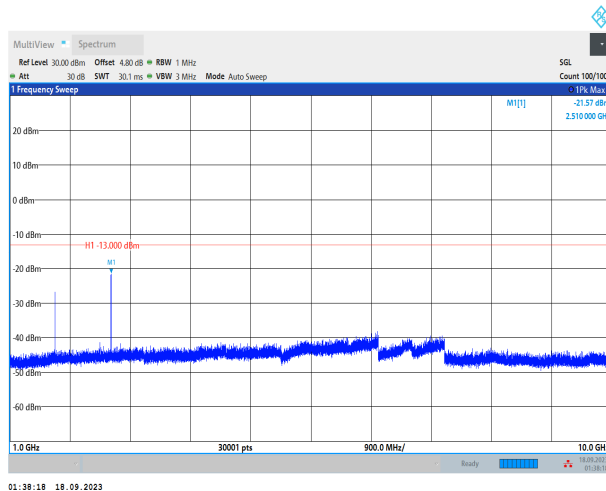
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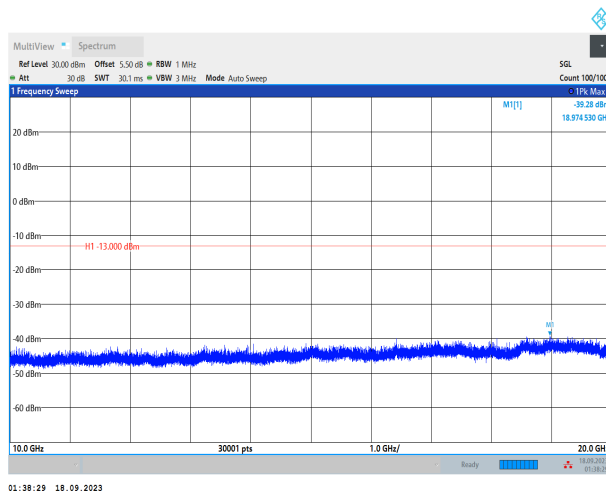
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GSM850-190-1000~10000MHz



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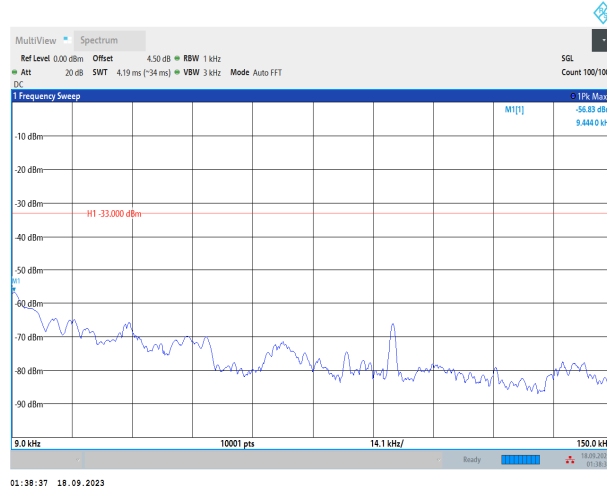
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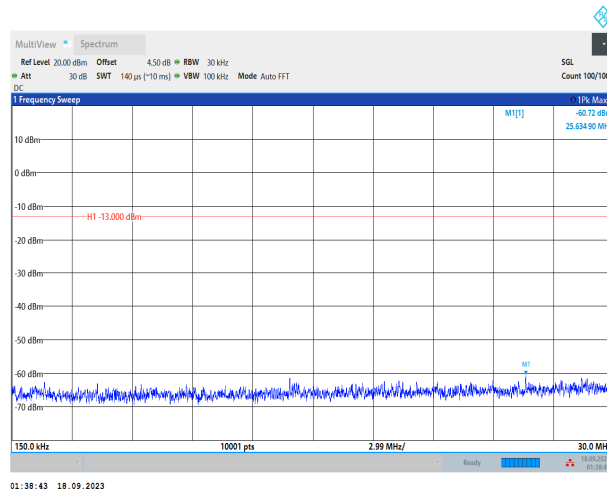
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GSM850-251-0.009~0.15MHz



GSM850-251-0.15~30MHz



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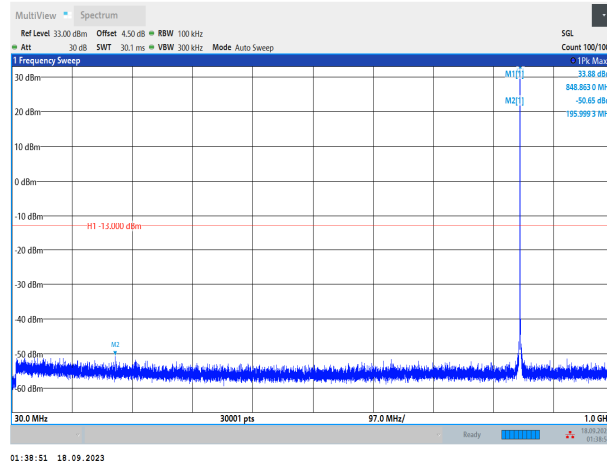
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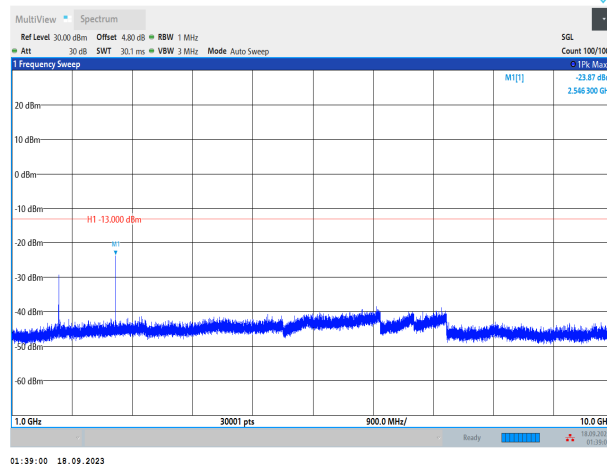
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GSM850-251-30~1000MHz



GSM850-251-1000~10000MHz



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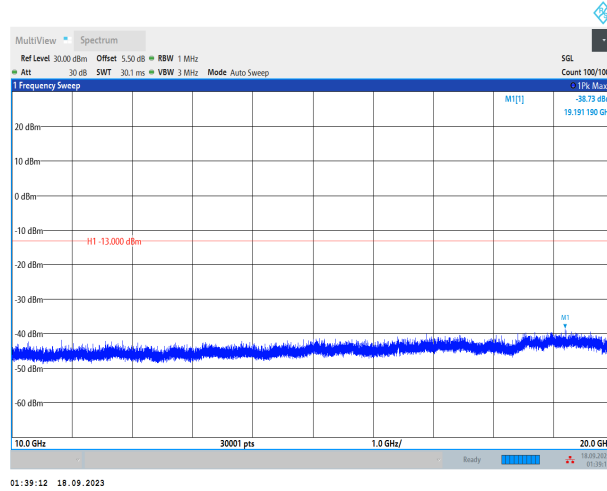
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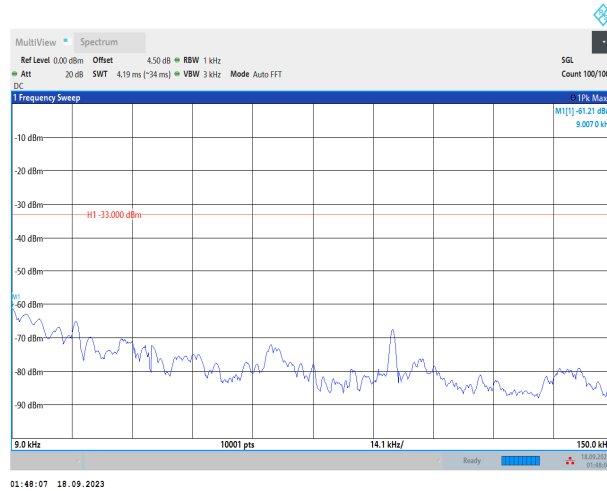
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GSM850-251-10000~20000MHz



EGPRS850-128-0.009~0.15MHz



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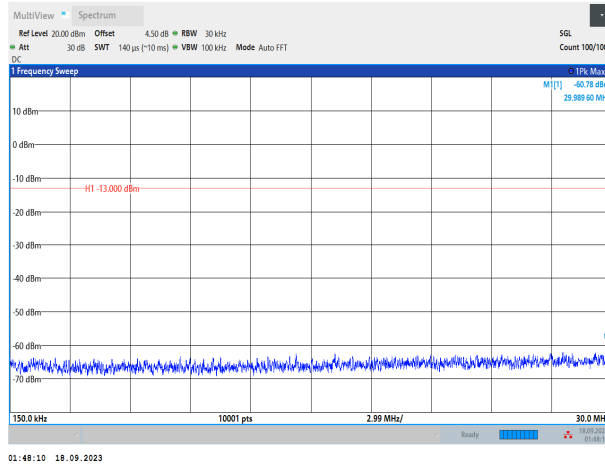
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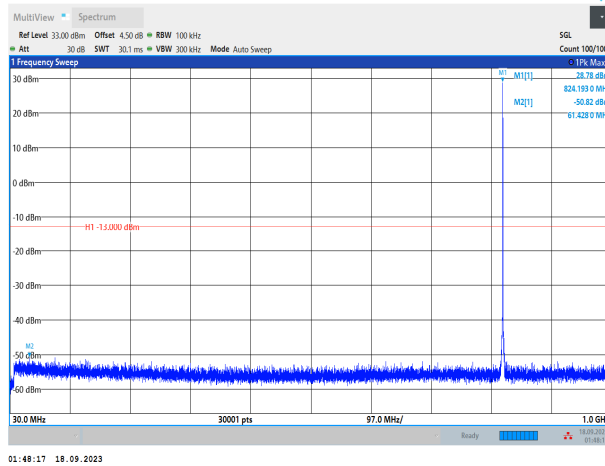
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EGPRS850-128-0.15~30MHz



EGPRS850-128-30~1000MHz



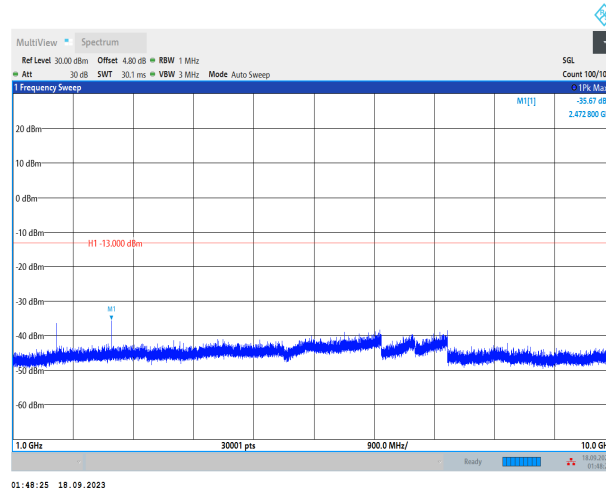
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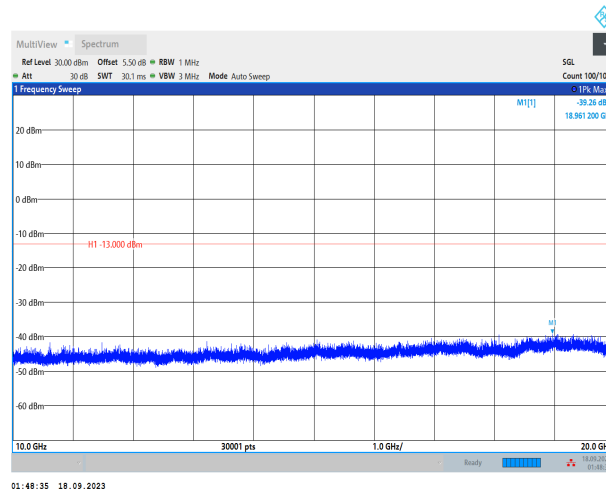
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EGPRS850-128-1000~10000MHz



EGPRS850-128-10000~20000MHz



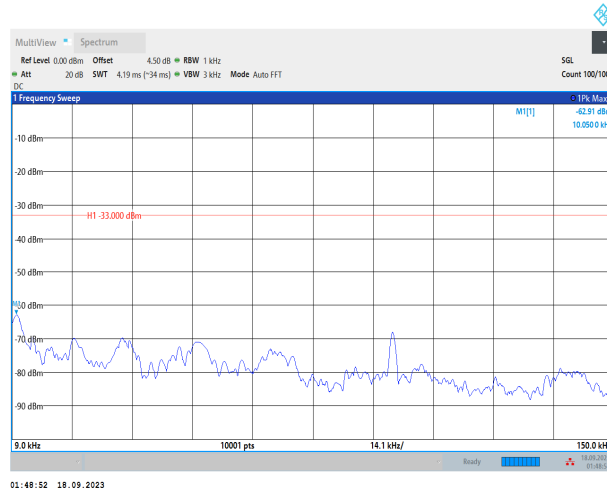
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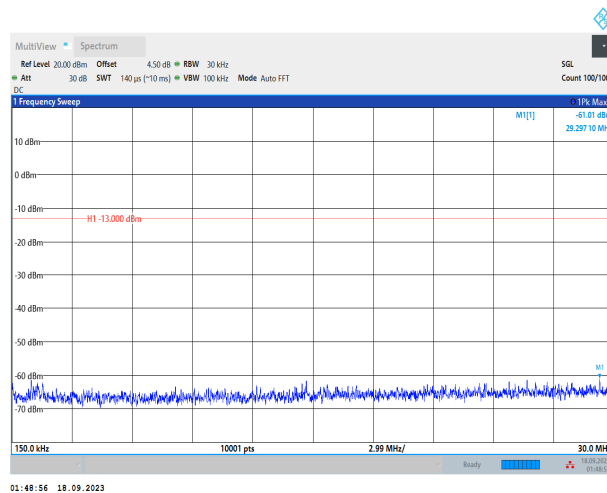
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EGPRS850-190-0.009~0.15MHz



EGPRS850-190-0.15~30MHz



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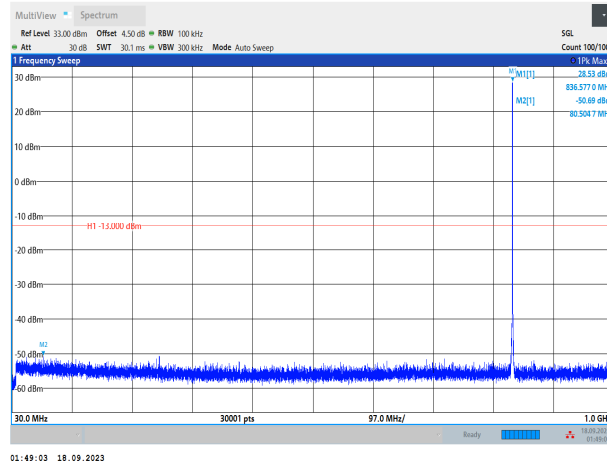
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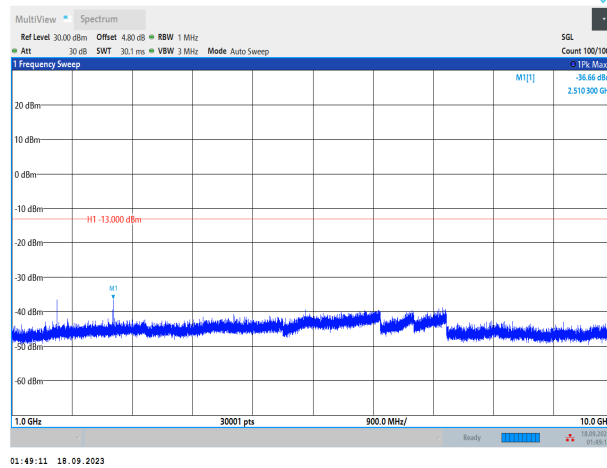
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EGPRS850-190-30~1000MHz



EGPRS850-190-1000~10000MHz



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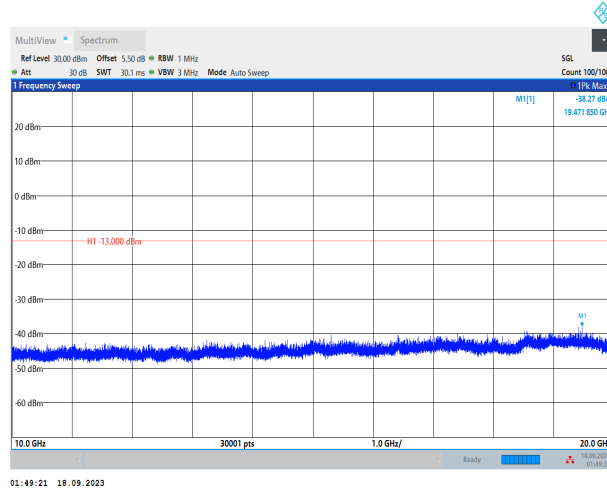
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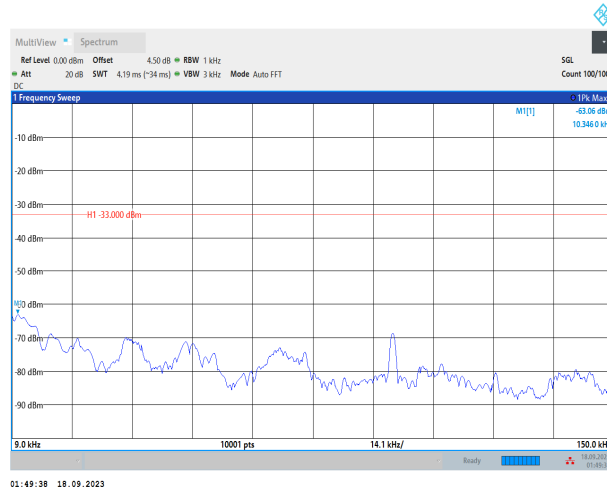
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EGPRS850-190-10000~20000MHz



EGPRS850-251-0.009~0.15MHz



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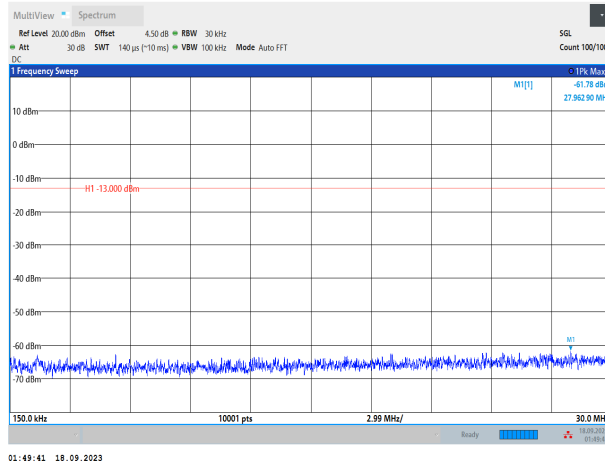
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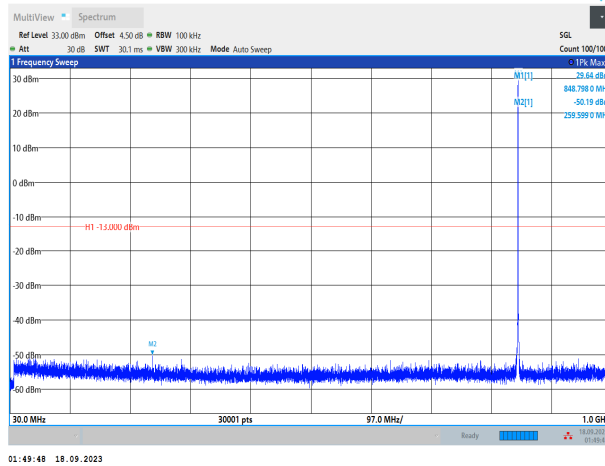
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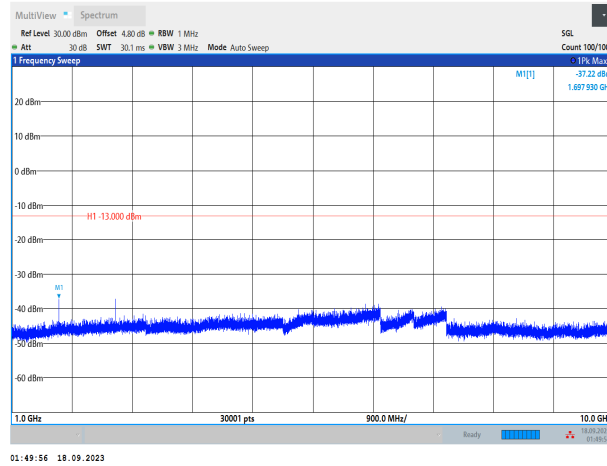
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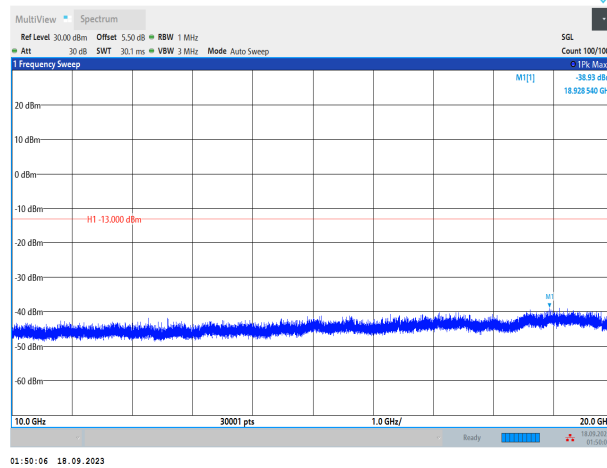
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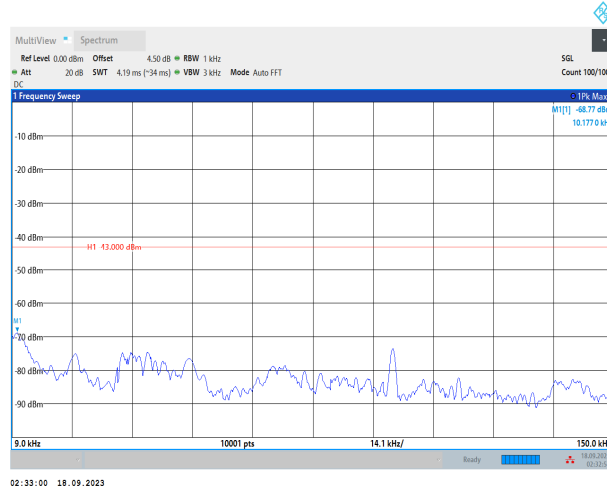
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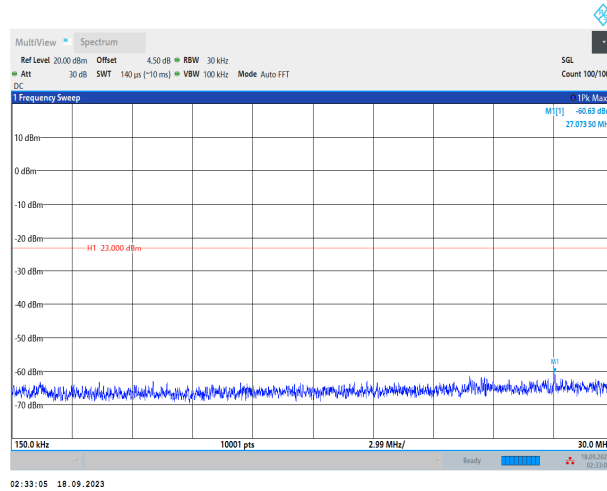
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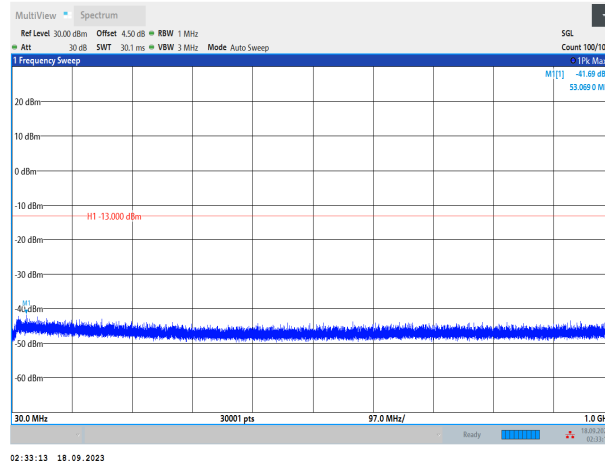
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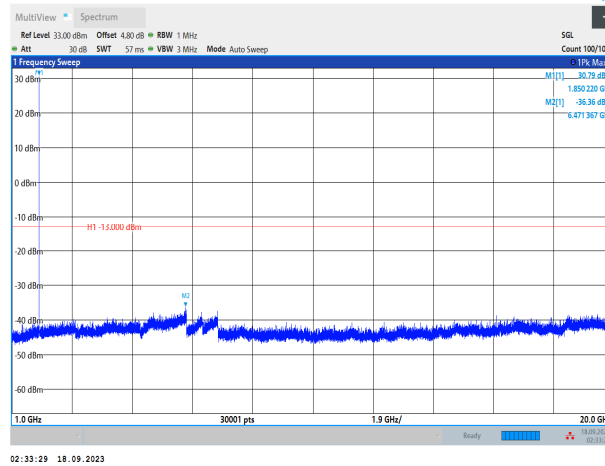
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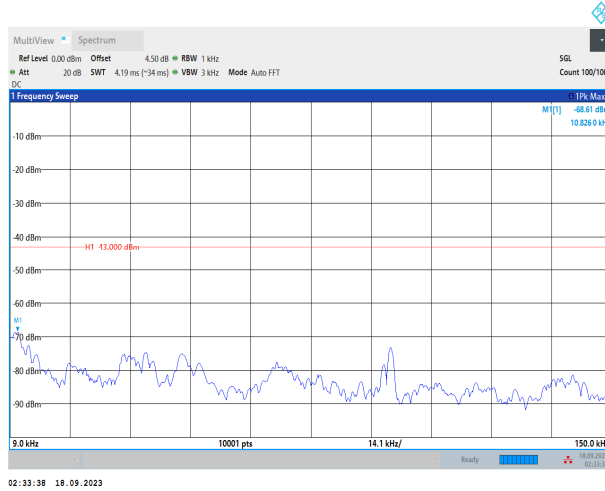
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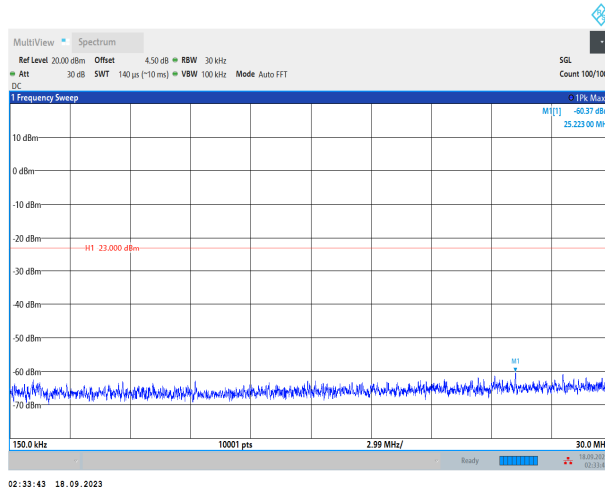
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GSM1900-661-0.009~0.15MHz



GSM1900-661-0.15~30MHz

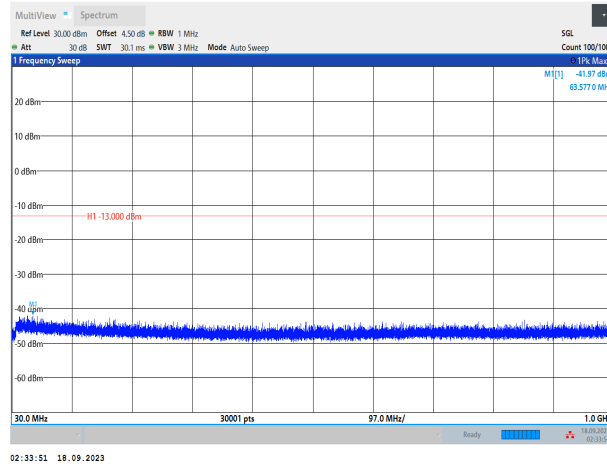


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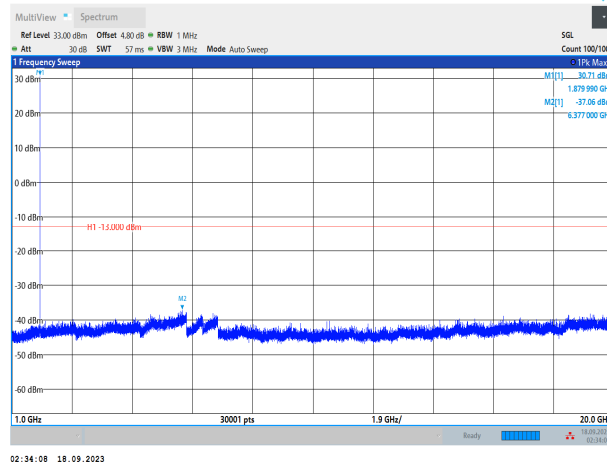
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GSM1900-661-30~1000MHz



GSM1900-661-1000~20000MHz



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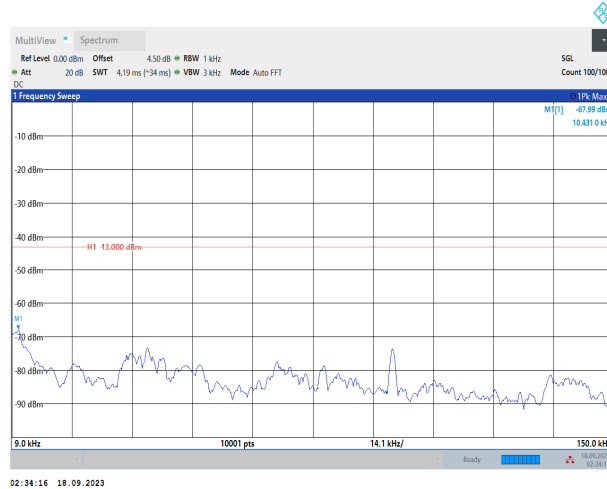
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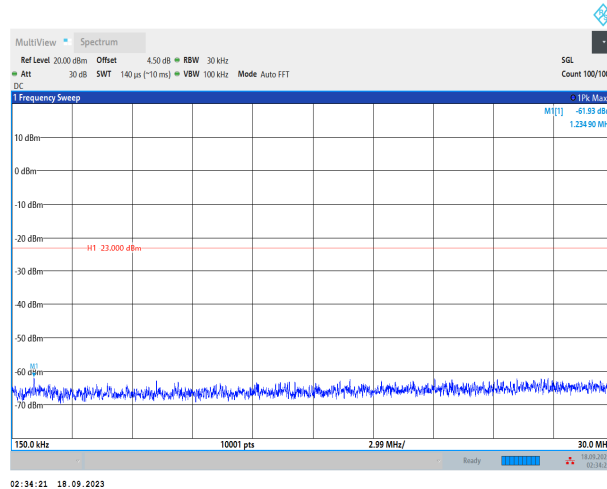
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GSM1900-810-0.009~0.15MHz



GSM1900-810-0.15~30MHz



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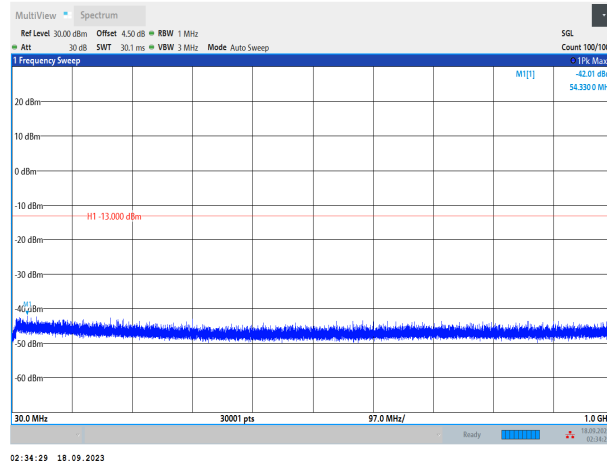
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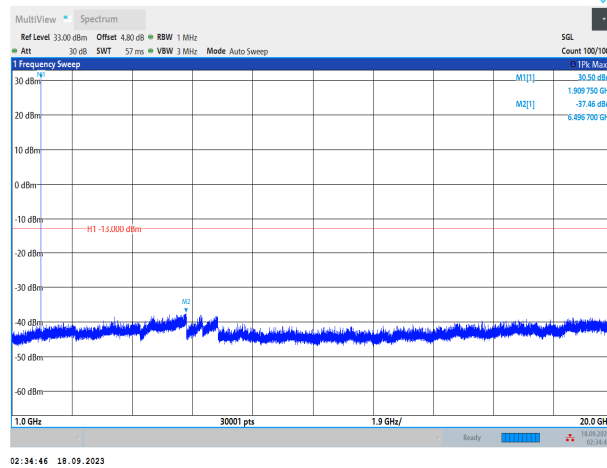
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GSM1900-810-30~1000MHz



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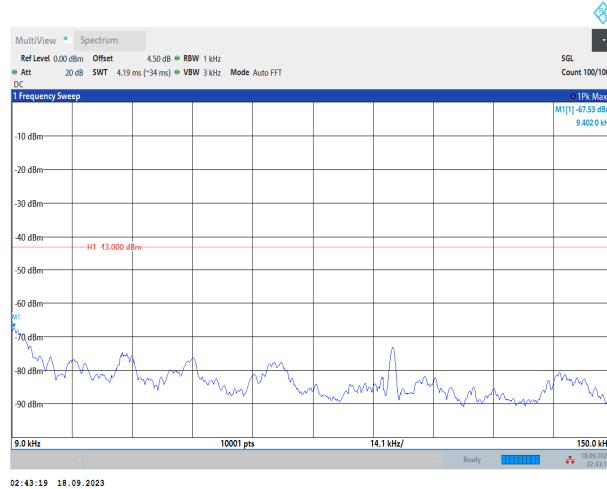
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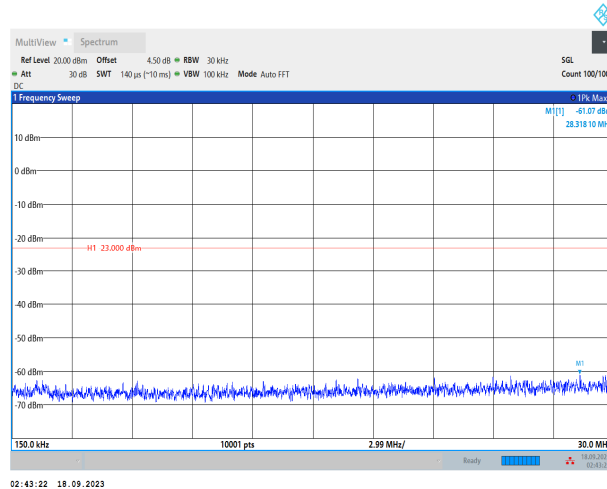
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EGPRS1900-512-0.009~0.15MHz



EGPRS1900-512-0.15~30MHz



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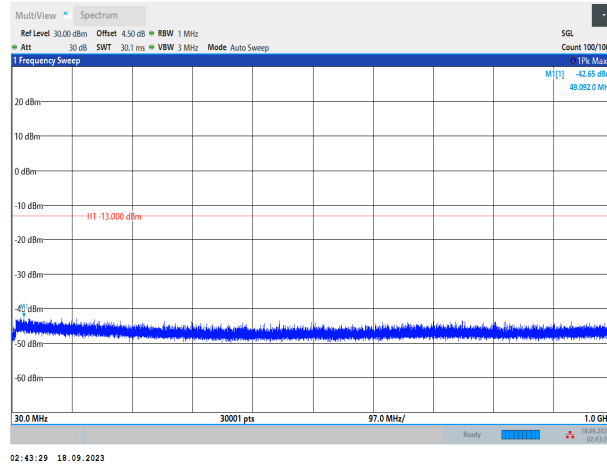
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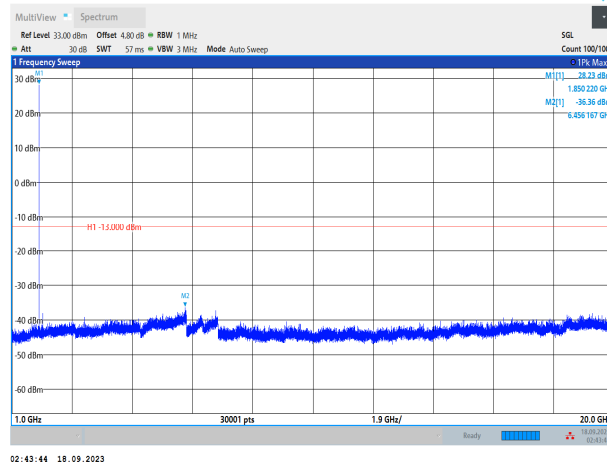
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EGPRS1900-512-30~1000MHz



EGPRS1900-512-1000~20000MHz



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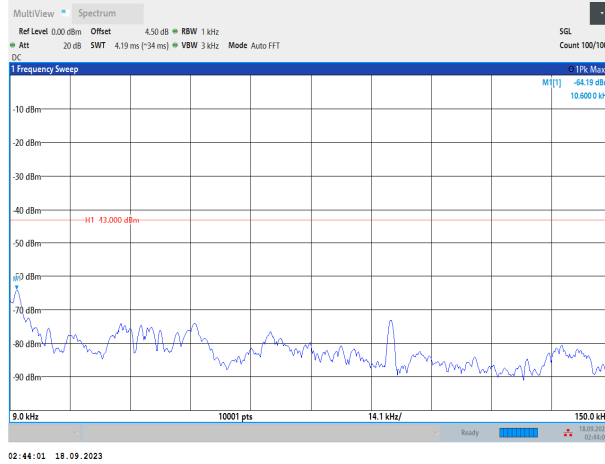
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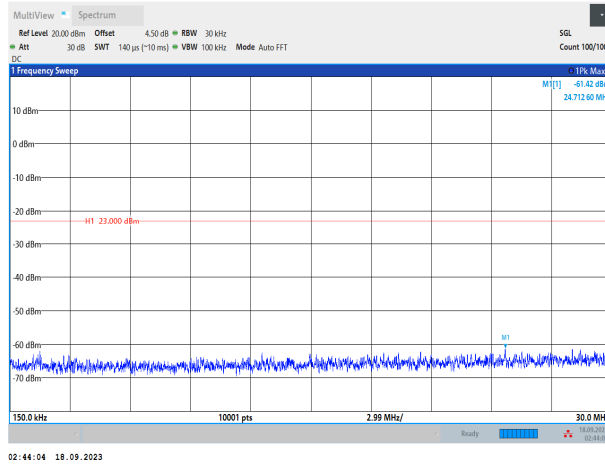
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EGPRS1900-661-0.009~0.15MHz



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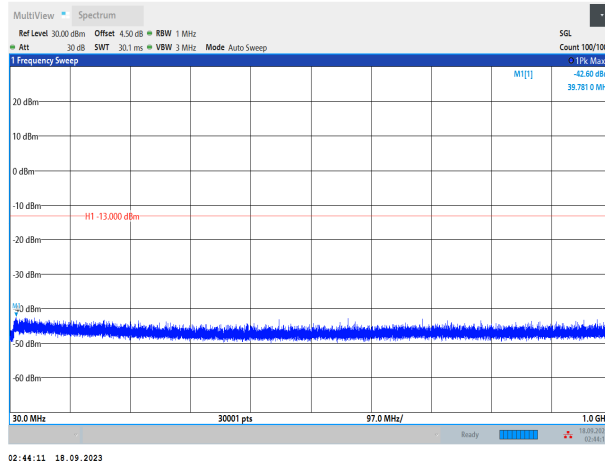
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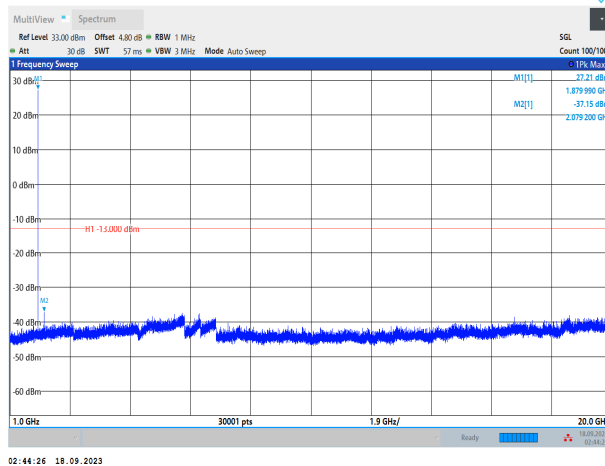
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EGPRS1900-661-30~1000MHz



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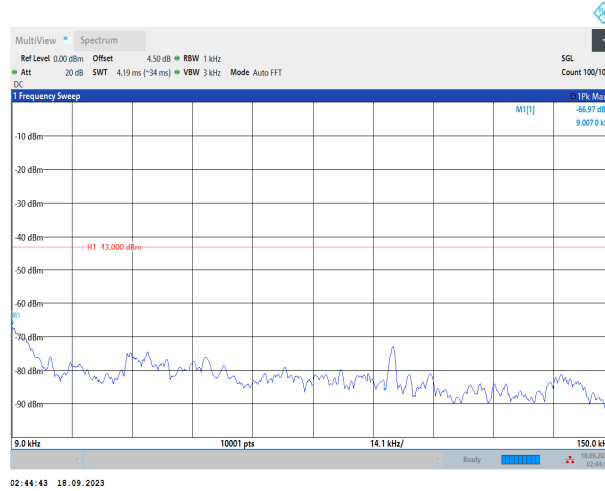
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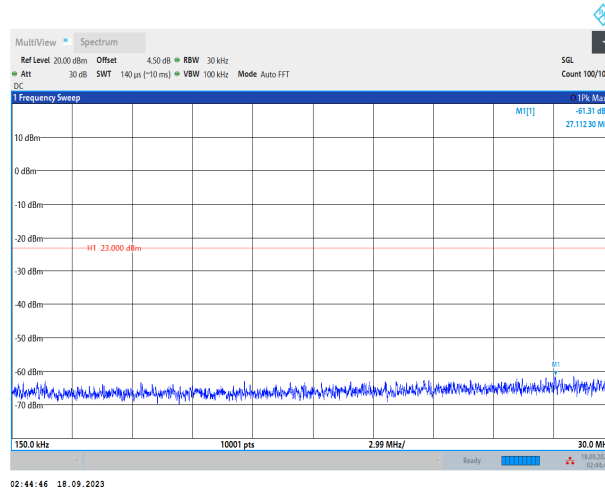
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EGPRS1900-810-0.009~0.15MHz



EGPRS1900-810-0.15~30MHz



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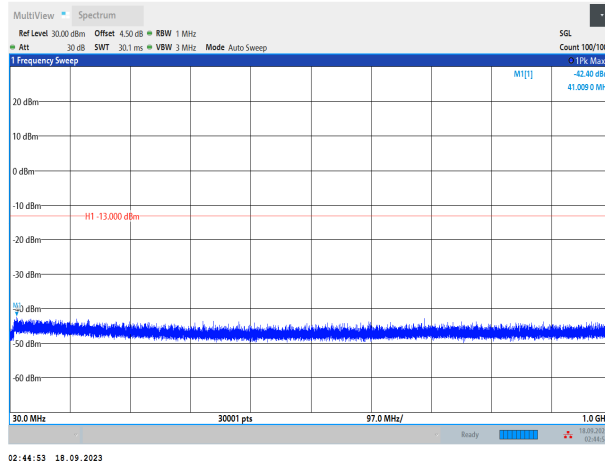
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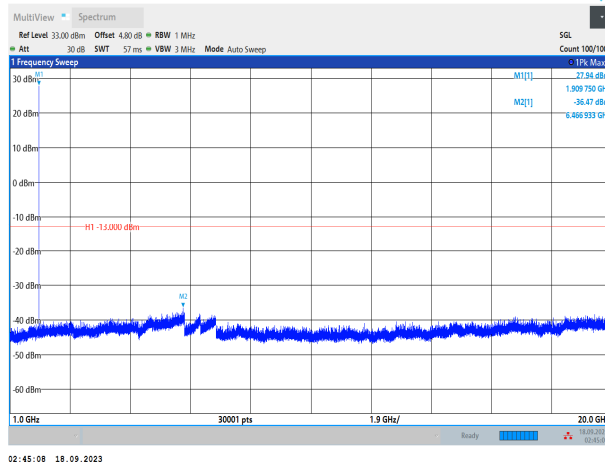
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EGPRS1900-810-30~1000MHz



EGPRS1900-810-1000~20000MHz



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Field Strength of Spurious Radiation

Test Band = GSM 850

Test Channel = Low

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.4	60.56	-49.83	25.29	-59.23	-13.00	46.23	Vertical
2	2472.6	55.06	-49.06	27.27	-61.99	-13.00	48.99	Vertical
3	3296.8	53.78	-48.63	28.62	-61.49	-13.00	48.49	Vertical
4	4121	48.78	-48.28	29.62	-65.14	-13.00	52.14	Vertical
5	4945.2	43.75	-48.07	31.37	-68.22	-13.00	55.22	Vertical
6	5769.4	45.37	-47.65	32.75	-64.79	-13.00	51.79	Vertical

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.4444	60.47	-49.83	25.29	-59.32	-13.00	46.32	Horizontal
2	2472.4444	55.70	-49.06	27.27	-61.35	-13.00	48.35	Horizontal
3	3296.8889	54.62	-48.63	28.62	-60.65	-13.00	47.65	Horizontal
4	4121.3333	48.95	-48.28	29.62	-64.97	-13.00	51.97	Horizontal
5	4945.2	43.38	-48.07	31.37	-68.59	-13.00	55.59	Horizontal
6	5769.4	44.15	-47.65	32.75	-66.01	-13.00	53.01	Horizontal



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Test Band = GSM 850
Test Channel = Mid

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8	61.50	-49.78	25.39	-58.15	-13.00	45.15	Vertical
2	2509.2	55.23	-48.93	27.32	-61.63	-13.00	48.63	Vertical
3	3345.6	50.74	-48.66	28.64	-64.54	-13.00	51.54	Vertical
4	4182	48.78	-48.34	29.73	-65.09	-13.00	52.09	Vertical
5	5018.4	44.14	-47.95	31.54	-67.53	-13.00	54.53	Vertical
6	5854.8	45.68	-47.33	32.77	-64.14	-13.00	51.14	Vertical

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8	61.91	-49.78	25.39	-57.74	-13.00	44.74	Horizontal
2	2509.2	54.57	-48.93	27.32	-62.29	-13.00	49.29	Horizontal
3	3345.6	53.83	-48.66	28.64	-61.45	-13.00	48.45	Horizontal
4	4182	44.26	-48.34	29.73	-69.61	-13.00	56.61	Horizontal
5	5018.4	45.14	-47.95	31.54	-66.53	-13.00	53.53	Horizontal
6	5854.8	44.53	-47.33	32.77	-65.29	-13.00	52.29	Horizontal



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Test Band = GSM 850

Test Channel = High

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.6	60.77	-49.72	25.49	-58.72	-13.00	45.72	Vertical
2	2546.4	55.31	-49.03	27.41	-61.56	-13.00	48.56	Vertical
3	3395.2	47.67	-48.69	28.66	-67.62	-13.00	54.62	Vertical
4	4244	48.78	-48.21	29.84	-64.86	-13.00	51.86	Vertical
5	5092.8	48.77	-47.92	31.72	-62.69	-13.00	49.69	Vertical
6	5941.6	44.94	-47.26	32.79	-64.79	-13.00	51.79	Vertical

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3395.1111	54.52	-48.69	28.66	-60.77	-13.00	47.77	Horizontal
2	1697.6	60.02	-49.72	25.49	-59.47	-13.00	46.47	Horizontal
3	2546.4	54.57	-49.03	27.41	-62.30	-13.00	49.30	Horizontal
4	4244	47.16	-48.21	29.84	-66.48	-13.00	53.48	Horizontal
5	5092.8	48.13	-47.92	31.72	-63.33	-13.00	50.33	Horizontal
6	5941.6	43.76	-47.26	32.79	-65.97	-13.00	52.97	Horizontal



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Test Band = GSM 1900

Test Channel = Low

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.4	56.28	-48.51	28.98	-58.51	-13.00	45.51	Vertical
2	5550.6	45.43	-47.66	32.71	-64.78	-13.00	51.78	Vertical
3	7400.8	44.50	-46.17	36.56	-60.37	-13.00	47.37	Vertical
4	9251	40.39	-43.20	37.83	-60.25	-13.00	47.25	Vertical
5	11101.2	39.52	-40.36	39.38	-56.72	-13.00	43.72	Vertical
6	12951.4	37.21	-39.41	38.63	-58.83	-13.00	45.83	Vertical

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.4	56.81	-48.51	28.98	-57.98	-13.00	44.98	Horizontal
2	5550.6	44.26	-47.66	32.71	-65.95	-13.00	52.95	Horizontal
3	7400.8	47.76	-46.17	36.56	-57.11	-13.00	44.11	Horizontal
4	9251	39.92	-43.20	37.83	-60.72	-13.00	47.72	Horizontal
5	11101.2	42.35	-40.36	39.38	-53.89	-13.00	40.89	Horizontal
6	12951.4	38.89	-39.41	38.63	-57.15	-13.00	44.15	Horizontal



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Test Band = GSM 1900
Test Channel = Mid

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760	52.27	-48.31	29.06	-62.24	-13.00	49.24	Vertical
2	5640	50.20	-47.62	32.73	-59.95	-13.00	46.95	Vertical
3	7520	45.42	-45.85	36.78	-58.91	-13.00	45.91	Vertical
4	9400	40.23	-43.05	37.96	-60.12	-13.00	47.12	Vertical
5	11280	46.42	-40.44	39.34	-49.93	-13.00	36.93	Vertical
6	13160	38.95	-38.58	38.97	-55.92	-13.00	42.92	Vertical

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760	52.70	-48.31	29.06	-61.81	-13.00	48.81	Horizontal
2	5640	48.54	-47.62	32.73	-61.61	-13.00	48.61	Horizontal
3	7520	44.05	-45.85	36.78	-60.28	-13.00	47.28	Horizontal
4	9400	39.54	-43.05	37.96	-60.81	-13.00	47.81	Horizontal
5	11280	47.59	-40.44	39.34	-48.76	-13.00	35.76	Horizontal
6	13160	36.74	-38.58	38.97	-58.13	-13.00	45.13	Horizontal



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Test Band = GSM 1900
Test Channel = High

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5729.25	49.80	-47.54	32.75	-60.25	-13.00	47.25	Vertical
2	3819.6	56.22	-48.20	29.15	-58.09	-13.00	45.09	Vertical
3	7639.2	43.20	-44.82	36.63	-60.25	-13.00	47.25	Vertical
4	9549	39.63	-42.31	38.09	-59.84	-13.00	46.84	Vertical
5	11458.8	42.71	-40.07	39.31	-53.31	-13.00	40.31	Vertical
6	13368.6	37.32	-39.15	39.45	-57.64	-13.00	44.64	Vertical

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5729.25	52.67	-47.54	32.75	-57.38	-13.00	44.38	Horizontal
2	3819.6	53.75	-48.20	29.15	-60.56	-13.00	47.56	Horizontal
3	7639.2	41.61	-44.82	36.63	-61.84	-13.00	48.84	Horizontal
4	9549	39.62	-42.31	38.09	-59.85	-13.00	46.85	Horizontal
5	11458.8	42.26	-40.07	39.31	-53.76	-13.00	40.76	Horizontal
6	13368.6	37.36	-39.15	39.45	-57.60	-13.00	44.60	Horizontal

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	VL	NT	-3.52	-0.004208	±2.5	PASS
GSM850	190	VN	NT	-3.00	-0.003586	±2.5	PASS
GSM850	190	VH	NT	-1.97	-0.002355	±2.5	PASS
EGPRS850	190	VL	NT	-6.33	-0.007566	±2.5	PASS
EGPRS850	190	VN	NT	-8.65	-0.010339	±2.5	PASS
EGPRS850	190	VH	NT	-6.26	-0.007483	±2.5	PASS

Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	VL	NT	1.16	0.000617	PASS
GSM1900	661	VN	NT	-2.39	-0.001271	PASS
GSM1900	661	VH	NT	-0.65	-0.000346	PASS
EGPRS1900	661	VL	NT	-13.04	-0.006936	PASS
EGPRS1900	661	VN	NT	-14.46	-0.007691	PASS
EGPRS1900	661	VH	NT	-9.98	-0.005309	PASS



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Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	0.19	0.000227	±2.5	PASS
GSM850	190	NV	-20	-1.13	-0.001351	±2.5	PASS
GSM850	190	NV	-10	-4.13	-0.004937	±2.5	PASS
GSM850	190	NV	0	-9.17	-0.010961	±2.5	PASS
GSM850	190	NV	10	-9.01	-0.010770	±2.5	PASS
GSM850	190	NV	20	-6.81	-0.008140	±2.5	PASS
GSM850	190	NV	30	-6.97	-0.008331	±2.5	PASS
GSM850	190	NV	40	-6.33	-0.007566	±2.5	PASS
GSM850	190	NV	50	-6.88	-0.008224	±2.5	PASS
EGPRS850	190	NV	-30	-5.10	-0.006096	±2.5	PASS
EGPRS850	190	NV	-20	-2.87	-0.003431	±2.5	PASS
EGPRS850	190	NV	-10	-3.39	-0.004052	±2.5	PASS
EGPRS850	190	NV	0	-5.91	-0.007064	±2.5	PASS
EGPRS850	190	NV	10	-5.97	-0.007136	±2.5	PASS
EGPRS850	190	NV	20	-3.07	-0.003670	±2.5	PASS
EGPRS850	190	NV	30	-5.33	-0.006371	±2.5	PASS
EGPRS850	190	NV	40	-5.62	-0.006718	±2.5	PASS
EGPRS850	190	NV	50	-5.42	-0.006479	±2.5	PASS



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Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	NV	-30	1.71	0.000910	PASS
GSM1900	661	NV	-20	-4.00	-0.002128	PASS
GSM1900	661	NV	-10	-2.39	-0.001271	PASS
GSM1900	661	NV	0	14.11	0.007505	PASS
GSM1900	661	NV	10	12.20	0.006489	PASS
GSM1900	661	NV	20	11.27	0.005995	PASS
GSM1900	661	NV	30	10.46	0.005564	PASS
GSM1900	661	NV	40	12.33	0.006559	PASS
GSM1900	661	NV	50	12.98	0.006904	PASS
EGPRS1900	661	NV	-30	-11.62	-0.006181	PASS
EGPRS1900	661	NV	-20	-12.01	-0.006388	PASS
EGPRS1900	661	NV	-10	-10.04	-0.005340	PASS
EGPRS1900	661	NV	0	-12.98	-0.006904	PASS
EGPRS1900	661	NV	10	-12.69	-0.006750	PASS
EGPRS1900	661	NV	20	-12.66	-0.006734	PASS
EGPRS1900	661	NV	30	-12.37	-0.006580	PASS
EGPRS1900	661	NV	40	-8.81	-0.004686	PASS
EGPRS1900	661	NV	50	-12.62	-0.006713	PASS

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