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Appendix B.1

GSM 850 & 1900



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Power	ERP(dBm)	Limit(dBm)	Verdict
GSM850	128	31.99	32.04	38.45	PASS
GSM850	190	32.04	32.09	38.45	PASS
GSM850	251	31.99	32.04	38.45	PASS
Band	Channel	Power	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	28.79	29.79	33.00	PASS
GSM1900	661	29.09	30.09	33.00	PASS
GSM1900	810	29.02	30.02	33.00	PASS



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Band	Channel	Slot	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	26.29	26.34	38.45	PASS
EGPRS850	128	2	26.13	26.18	38.45	PASS
EGPRS850	128	3	26.04	26.09	38.45	PASS
EGPRS850	128	4	25.95	26	38.45	PASS
EGPRS850	190	1	26.41	26.46	38.45	PASS
EGPRS850	190	2	26.33	26.38	38.45	PASS
EGPRS850	190	3	26.22	26.27	38.45	PASS
EGPRS850	190	4	26.12	26.17	38.45	PASS
EGPRS850	251	1	26.20	26.25	38.45	PASS
EGPRS850	251	2	26.14	26.19	38.45	PASS
EGPRS850	251	3	26.03	26.08	38.45	PASS
EGPRS850	251	4	25.89	25.94	38.45	PASS
Band	Channel	Slot	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	24.62	25.62	33.00	PASS
EGPRS1900	512	2	24.52	25.52	33.00	PASS
EGPRS1900	512	3	24.42	25.42	33.00	PASS
EGPRS1900	512	4	24.33	25.33	33.00	PASS
EGPRS1900	661	1	24.52	25.52	33.00	PASS
EGPRS1900	661	2	24.52	25.52	33.00	PASS
EGPRS1900	661	3	24.38	25.38	33.00	PASS
EGPRS1900	661	4	24.28	25.28	33.00	PASS
EGPRS1900	810	1	24.62	25.62	33.00	PASS
EGPRS1900	810	2	24.51	25.51	33.00	PASS
EGPRS1900	810	3	24.38	25.38	33.00	PASS
EGPRS1900	810	4	24.25	25.25	33.00	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	8.96	13	PASS
GSM850	190	8.96	13	PASS
GSM850	251	9.04	13	PASS
EGPRS850	128	12.72	13	PASS
EGPRS850	190	12.66	13	PASS
EGPRS850	251	12.56	13	PASS
GSM1900	512	9.6	13	PASS
GSM1900	661	9.6	13	PASS
GSM1900	810	9.6	13	PASS
EGPRS1900	512	12.78	13	PASS
EGPRS1900	661	12	13	PASS
EGPRS1900	810	11.92	13	PASS



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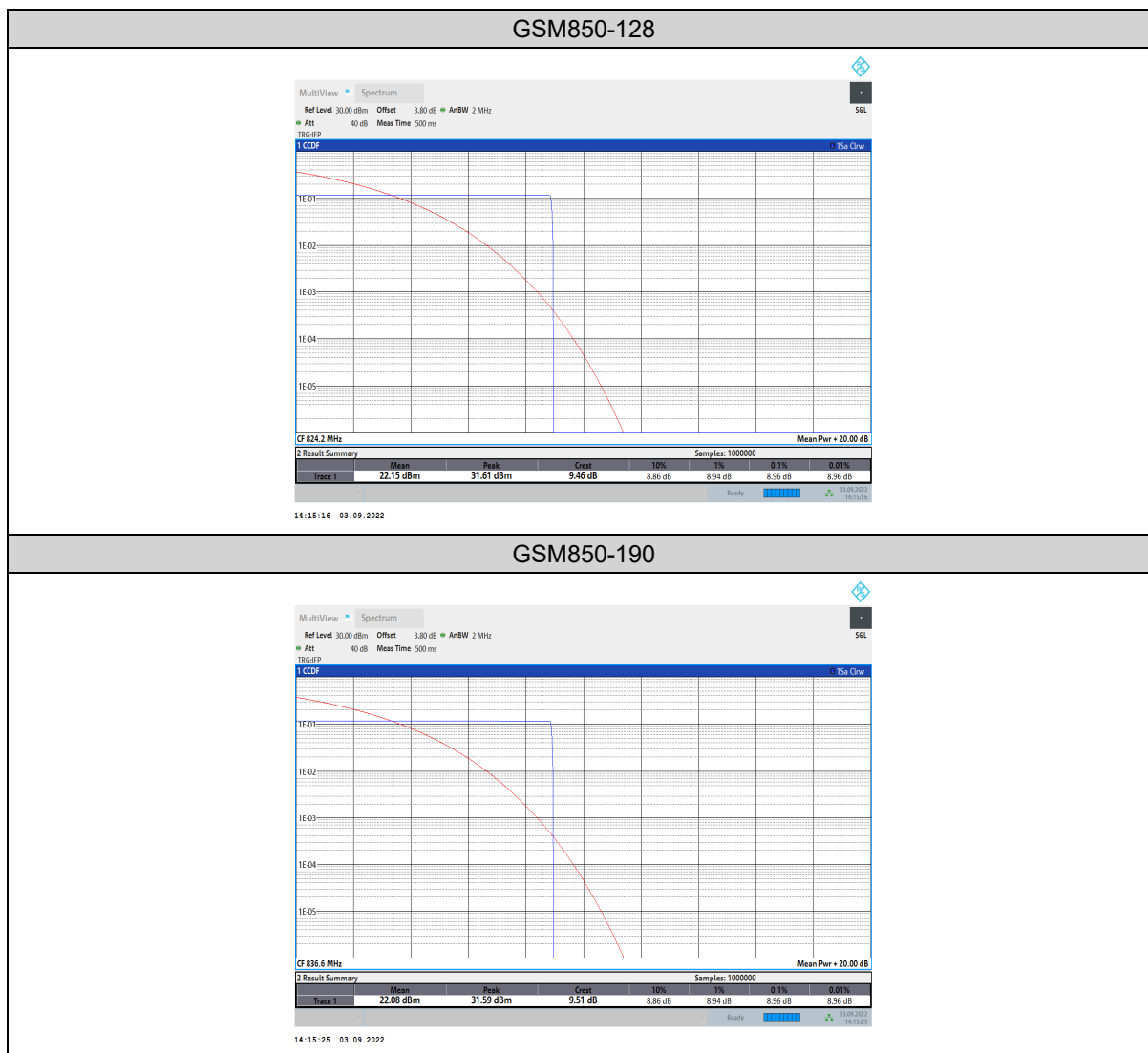
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Test Graphs



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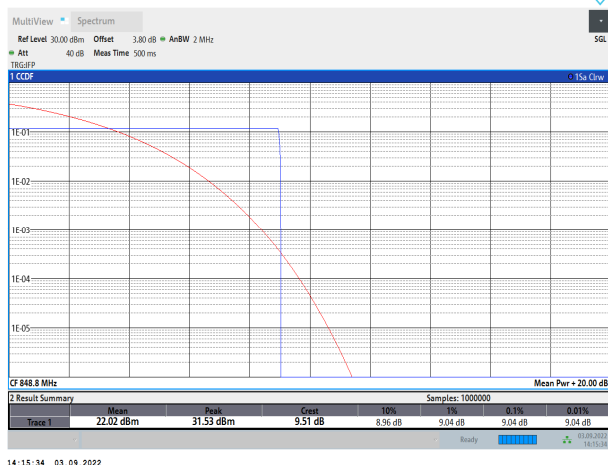
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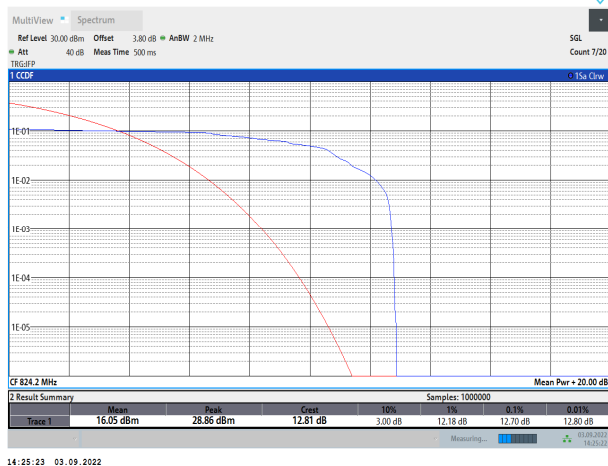
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GSM850-251



EGPRS850-128



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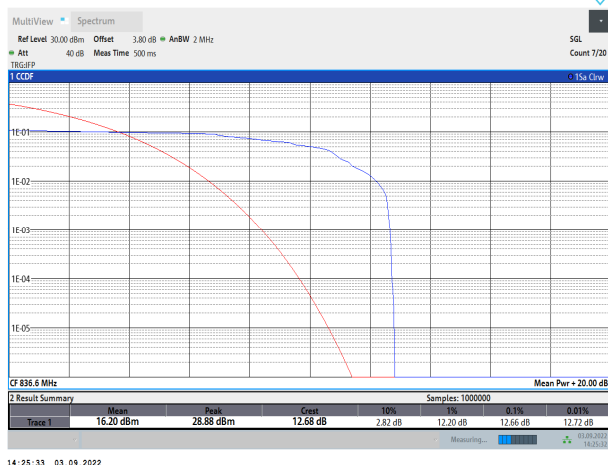
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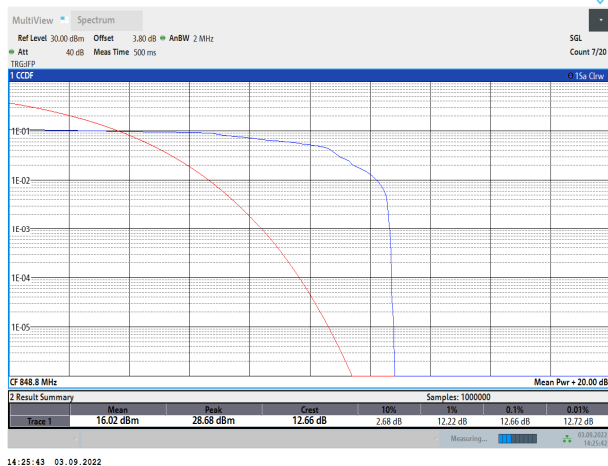
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EGPRS850-190



EGPRS850-251

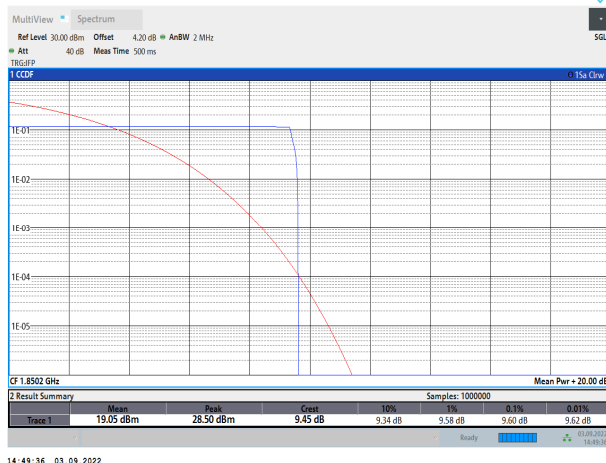


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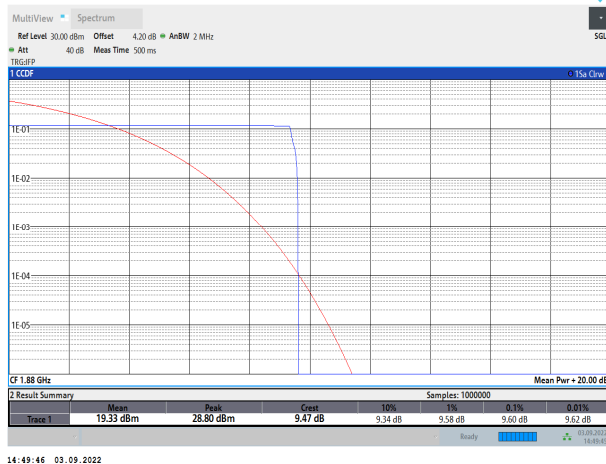
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GSM1900-512



GSM1900-661



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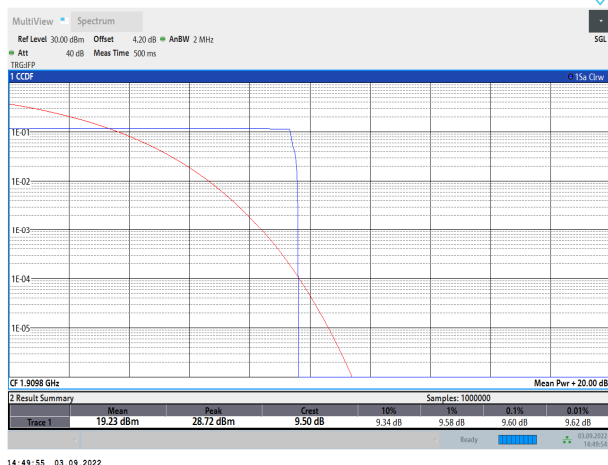
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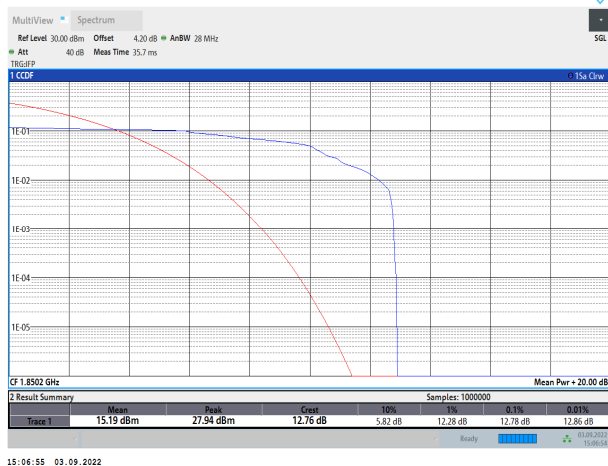
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GSM1900-810



EGPRS1900-512



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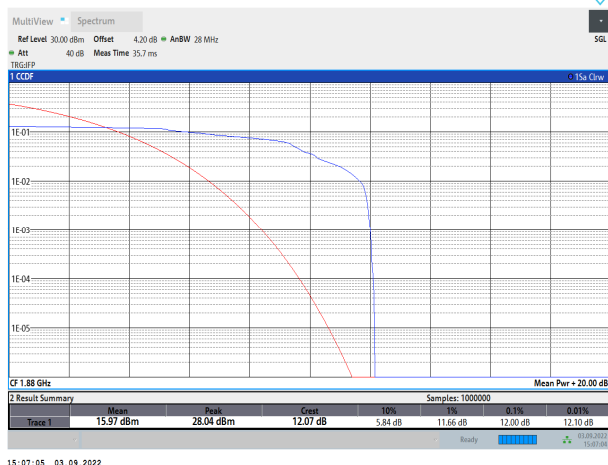
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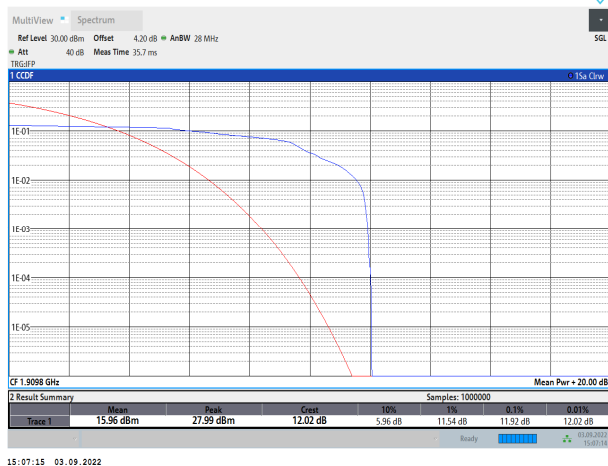
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EGPRS1900-661



EGPRS1900-810



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Modulation Characteristics

Test Result

Band	Channel	Result	Verdict
GSM850	190	PASS	PASS
EGPRS850	190	PASS	PASS
GSM1900	661	PASS	PASS
EGPRS1900	661	PASS	PASS



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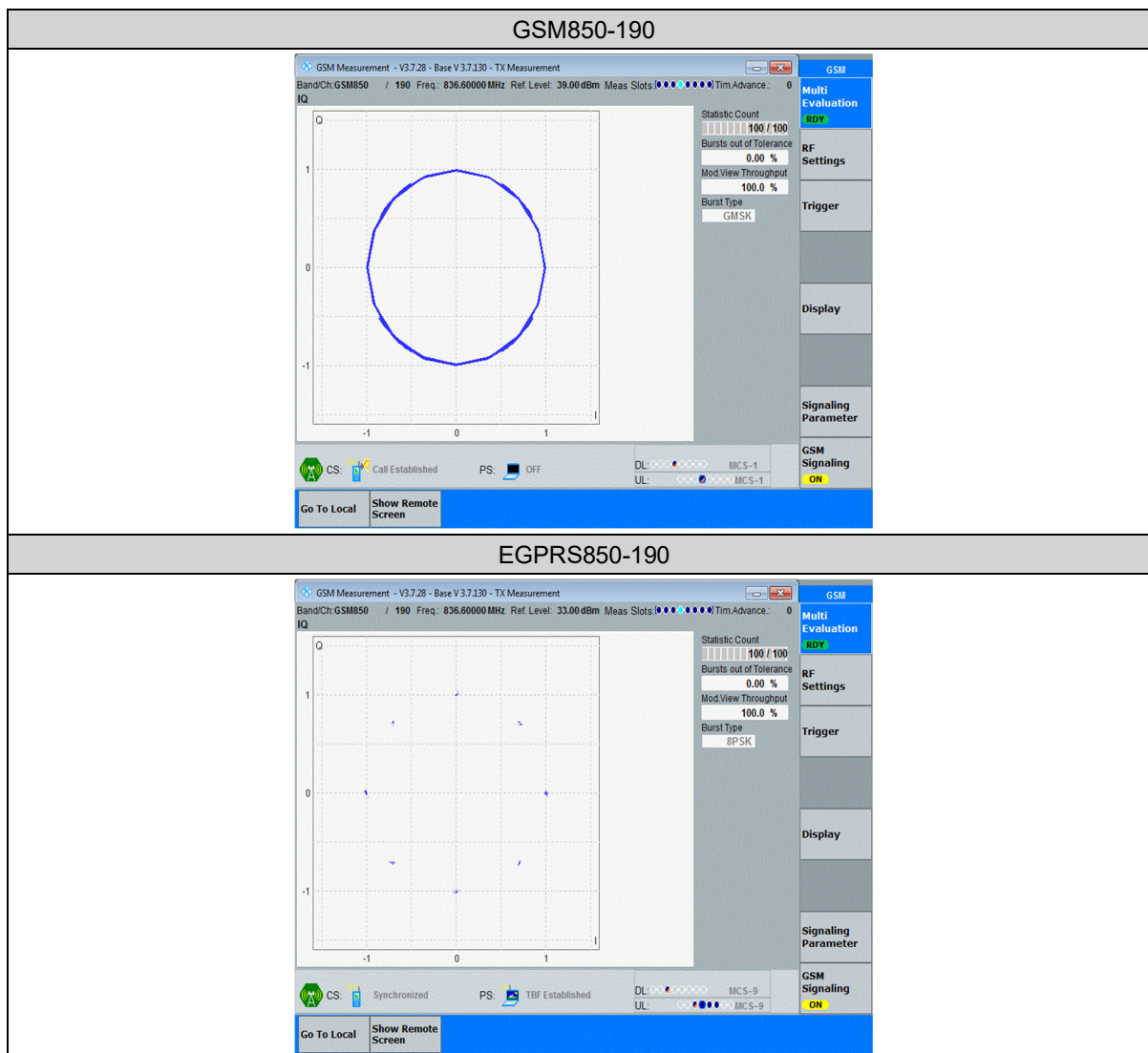
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Test Graphs



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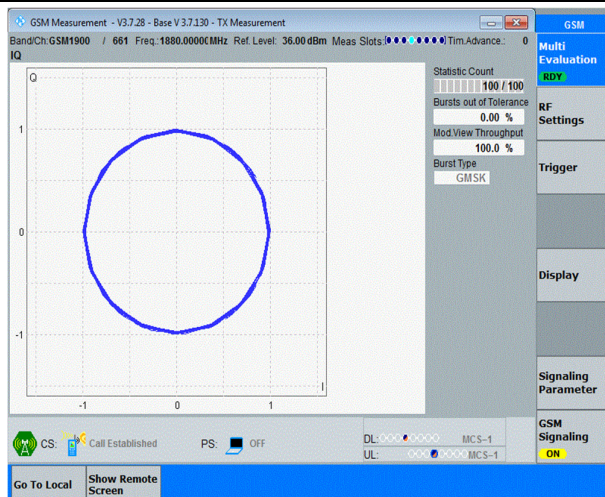
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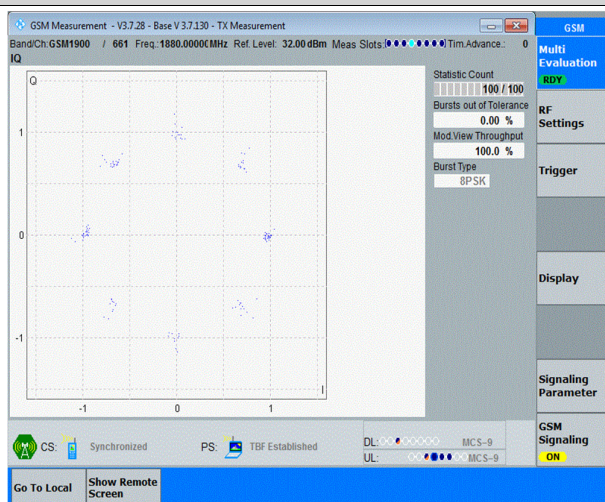
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EGPRS1900-661



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.243	0.31	---	PASS
GSM850	190	0.245	0.31	---	PASS
GSM850	251	0.244	0.31	---	PASS
EGPRS850	128	0.247	0.32	---	PASS
EGPRS850	190	0.247	0.32	---	PASS
EGPRS850	251	0.249	0.32	---	PASS
GSM1900	512	0.242	0.31	---	PASS
GSM1900	661	0.243	0.31	---	PASS
GSM1900	810	0.242	0.31	---	PASS
EGPRS1900	512	0.241	0.30	---	PASS
EGPRS1900	661	0.243	0.31	---	PASS
EGPRS1900	810	0.243	0.31	---	PASS



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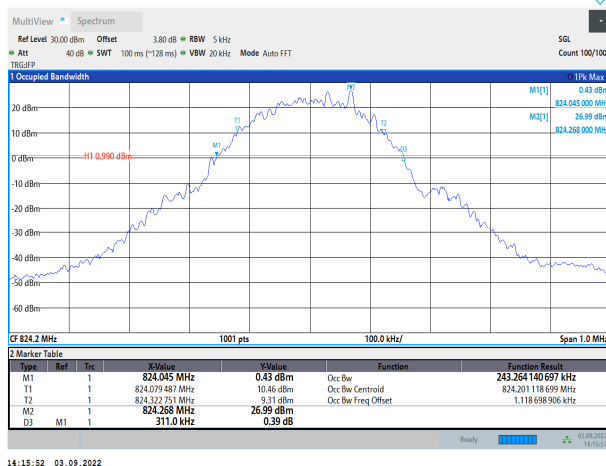
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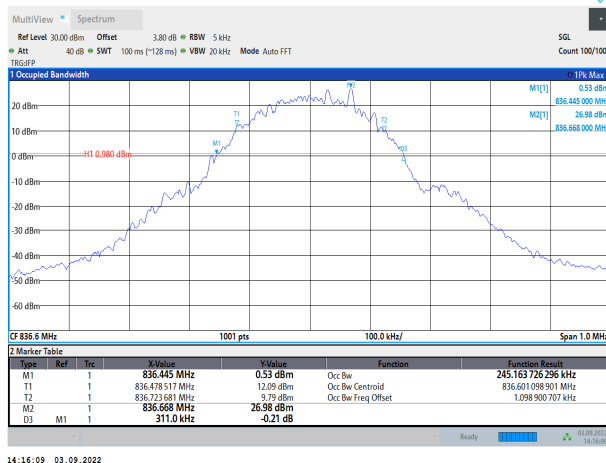
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Test Graphs

GSM850-128



GSM850-190

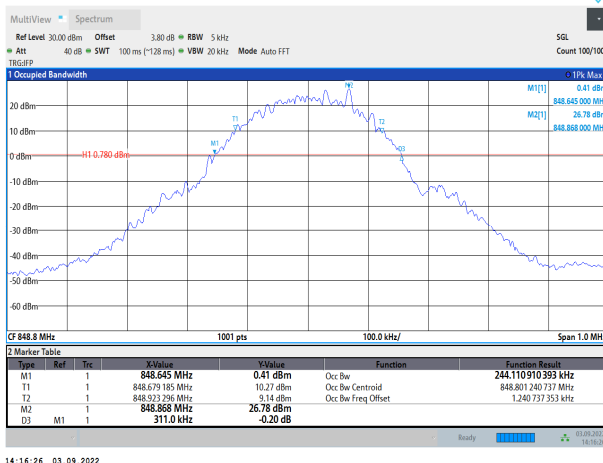


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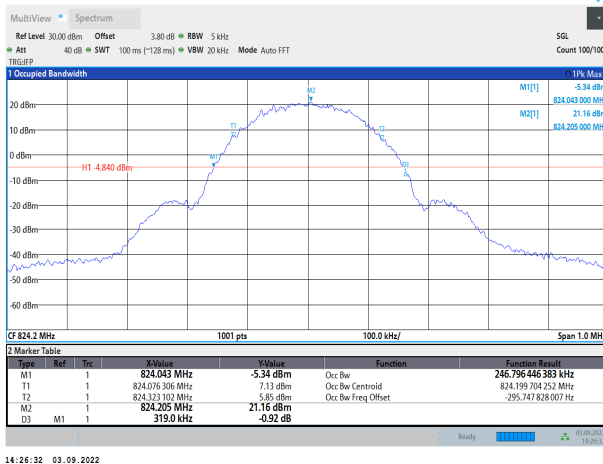
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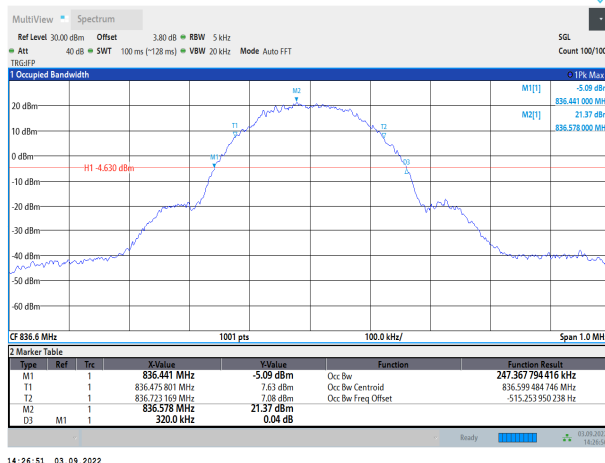
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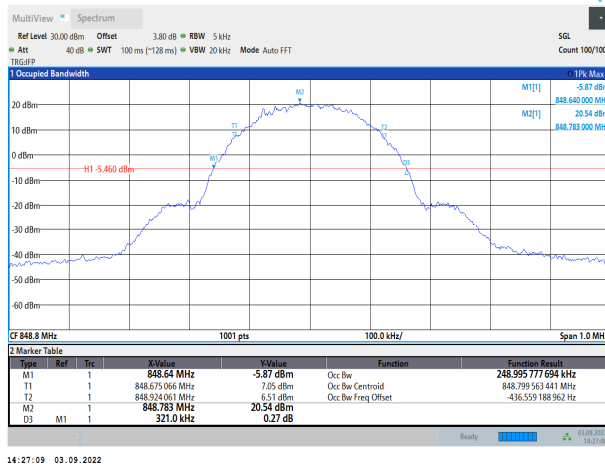
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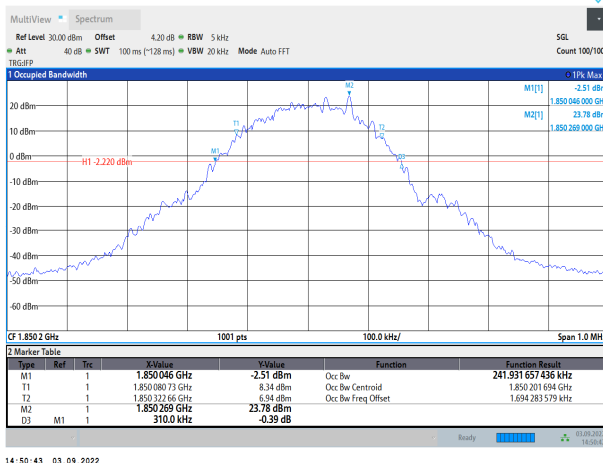
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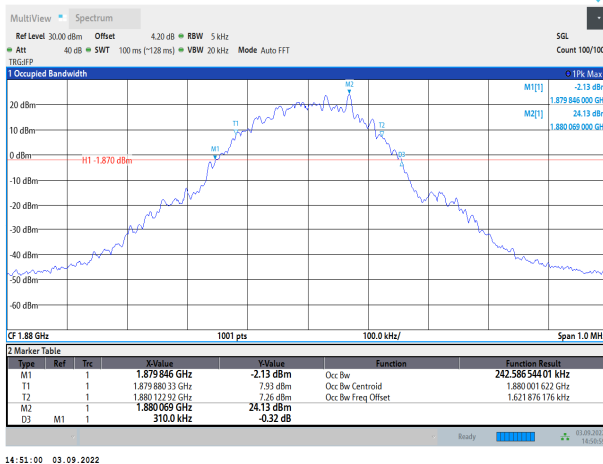
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GSM1900-661



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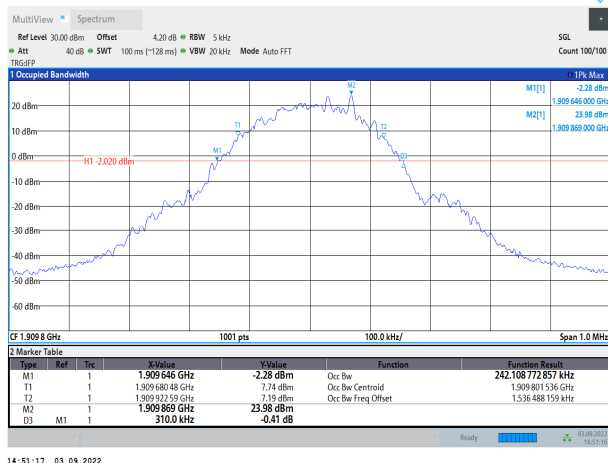
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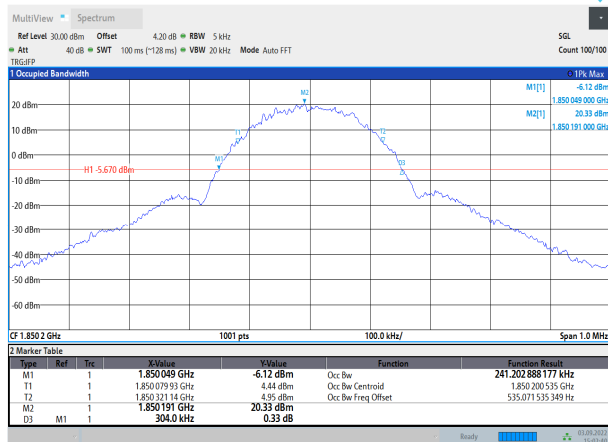
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14:51:17 03.09.2022

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15:02:41 03.09.2022



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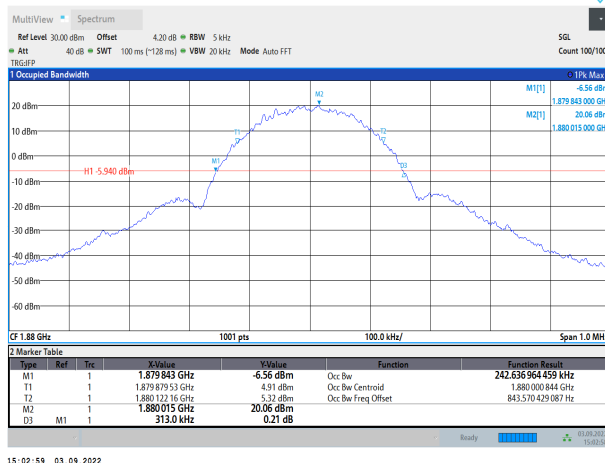
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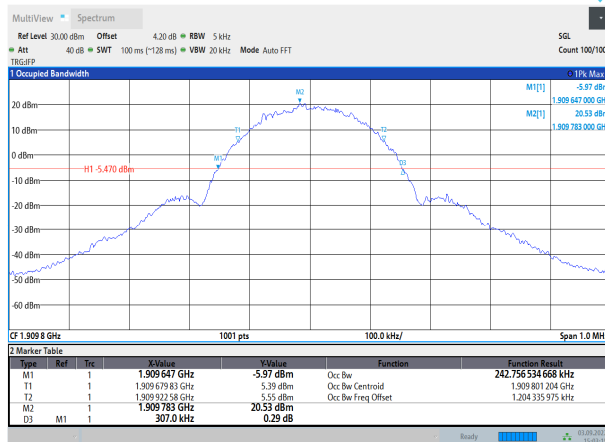
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15:02:59 03.09.2022

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15:03:16 03.09.2022



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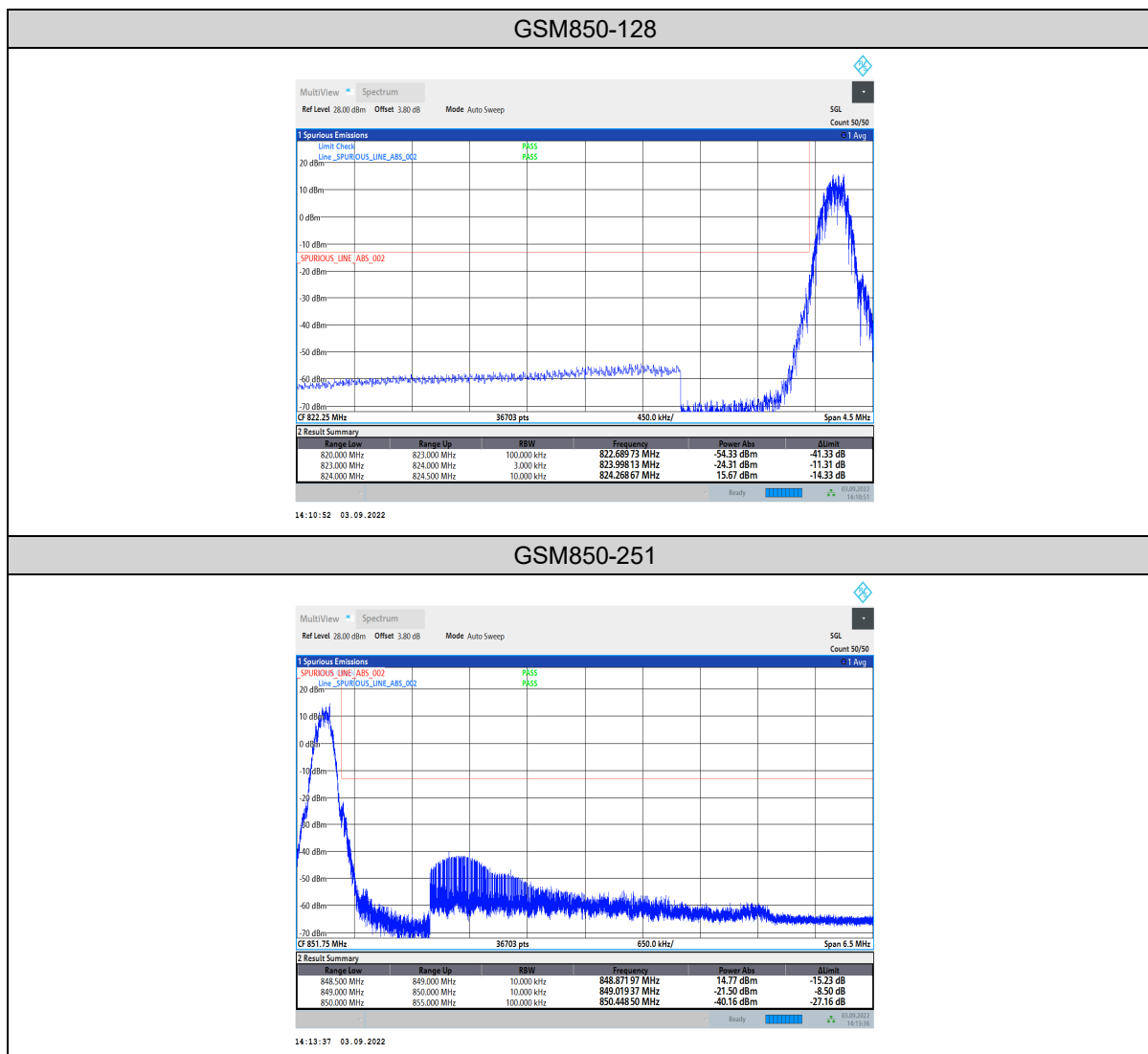
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Band Edge

Test Graphs



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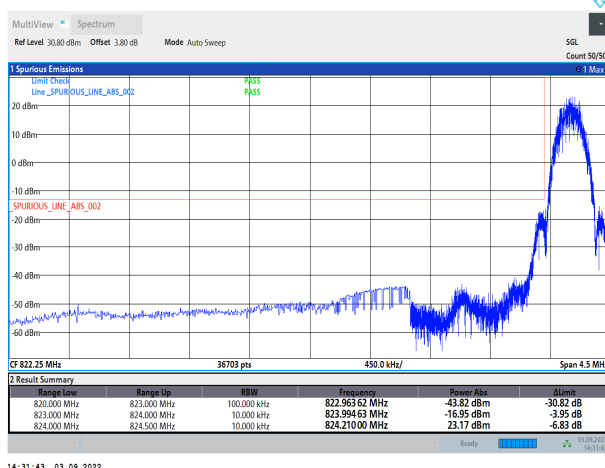
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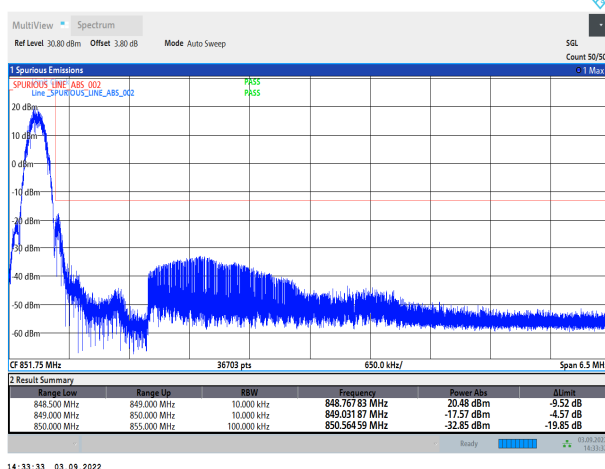
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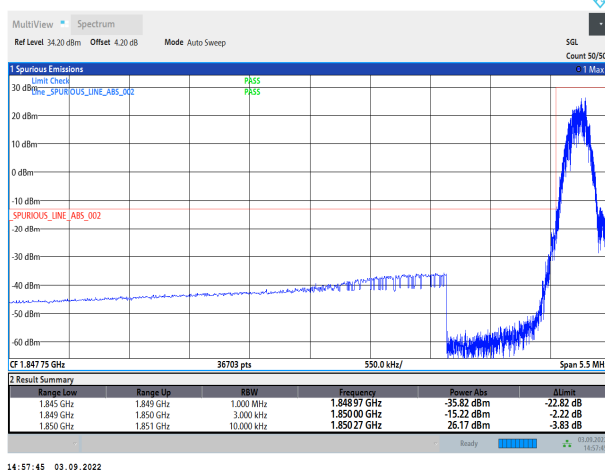
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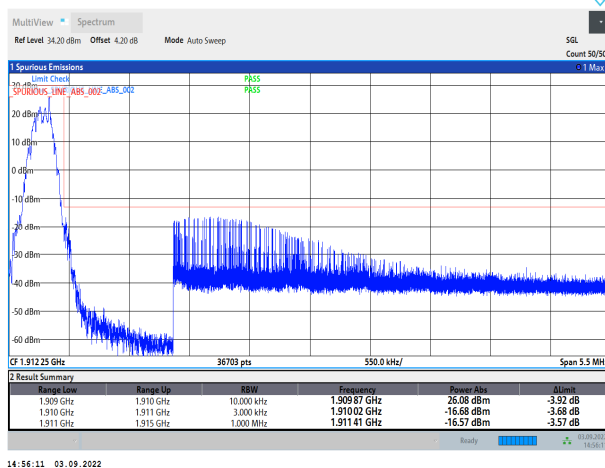
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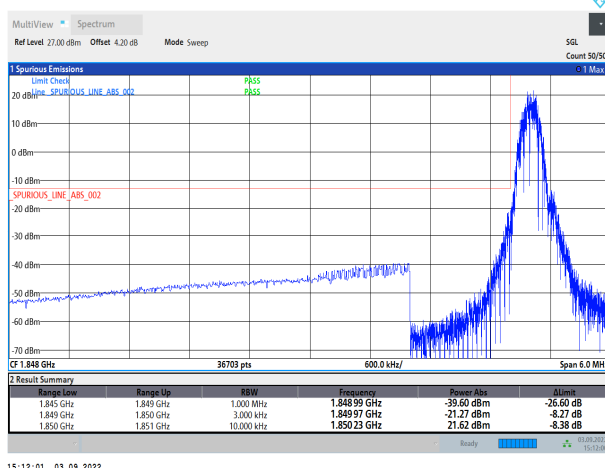
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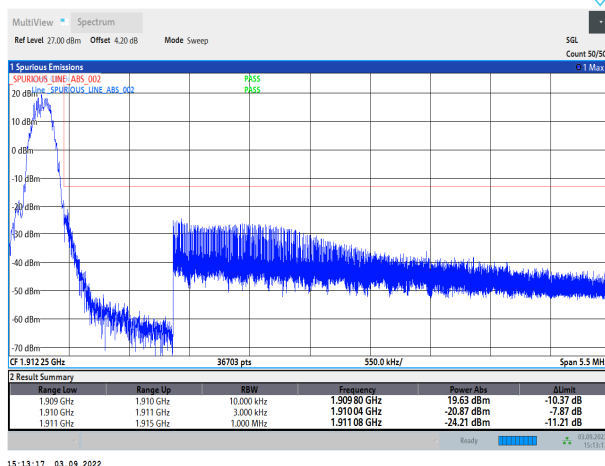
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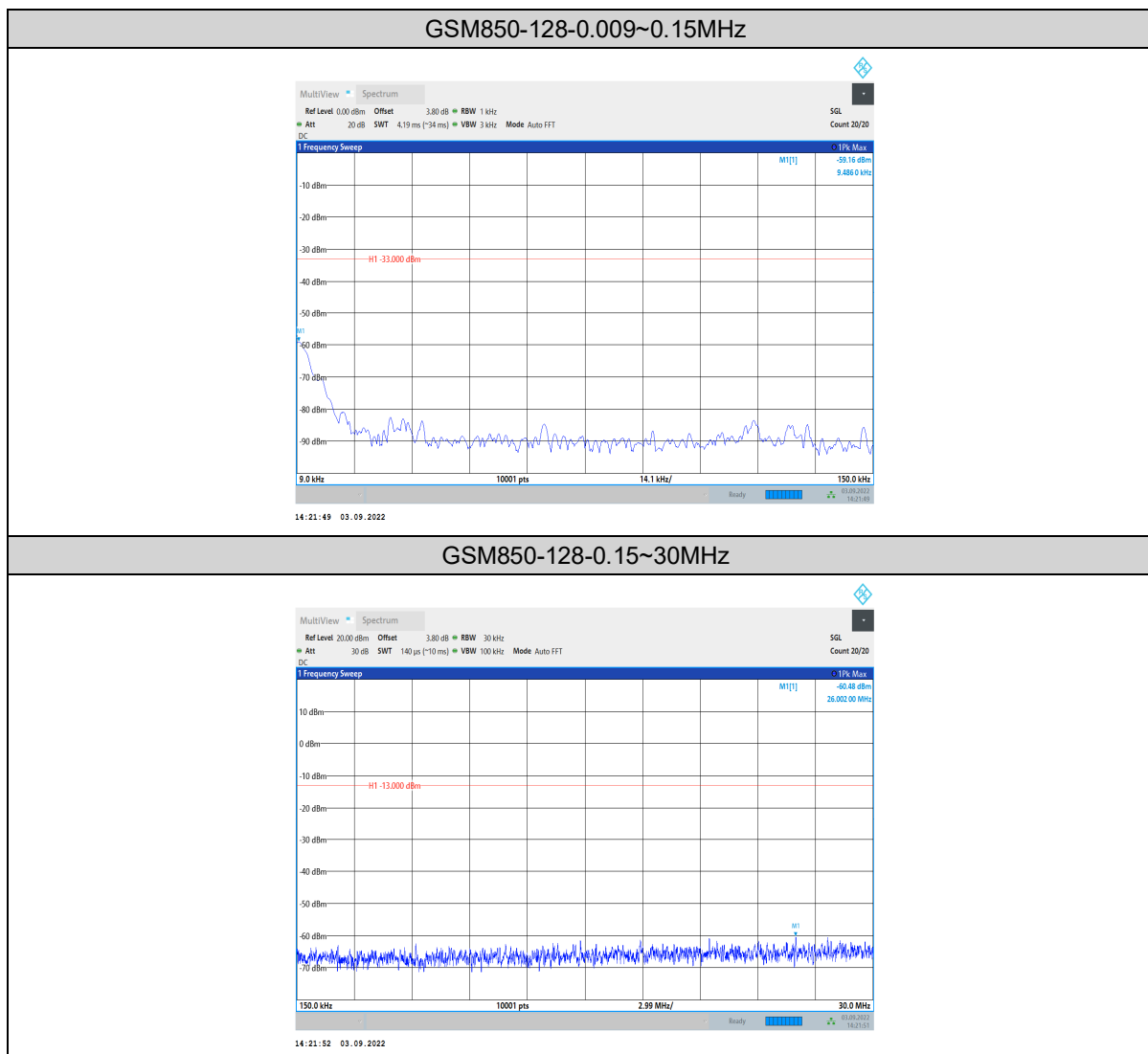
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Conducted Spurious Emission

Test Graphs

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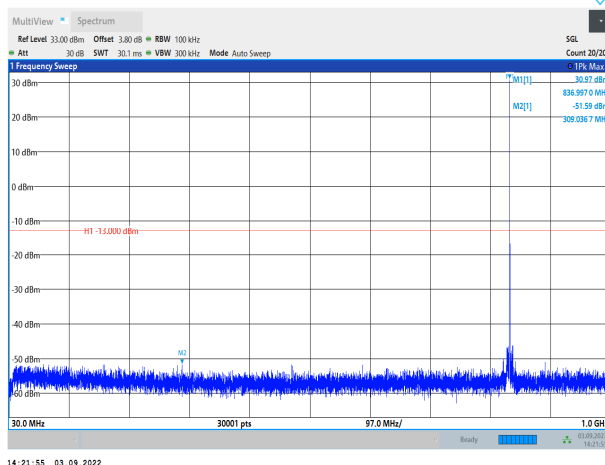
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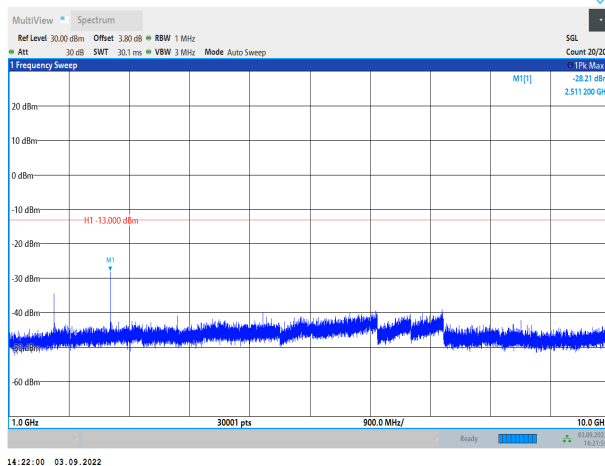
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GSM850-128-30~1000MHz



GSM850-128-1000~10000MHz



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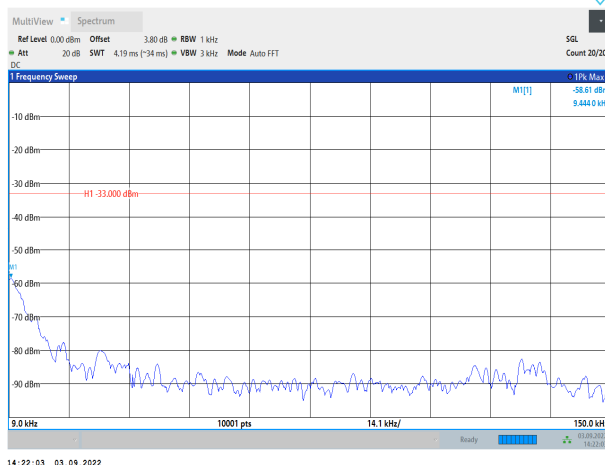
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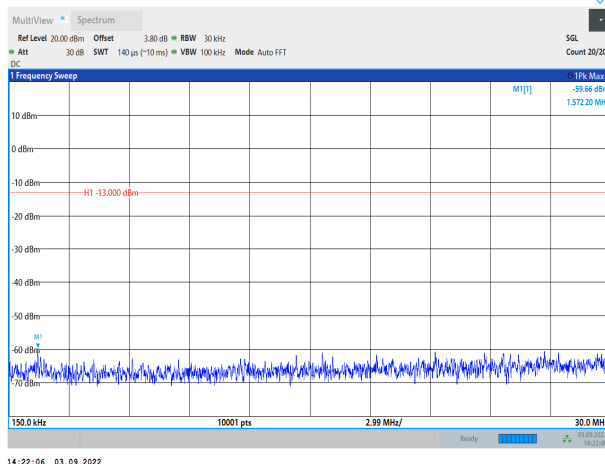
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GSM850-190-0.009~0.15MHz



GSM850-190-0.15~30MHz



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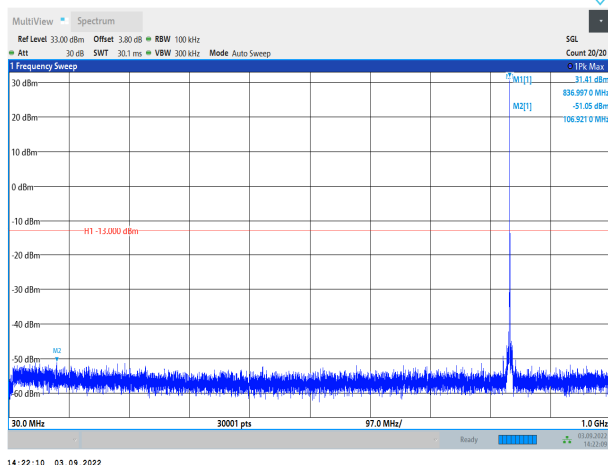


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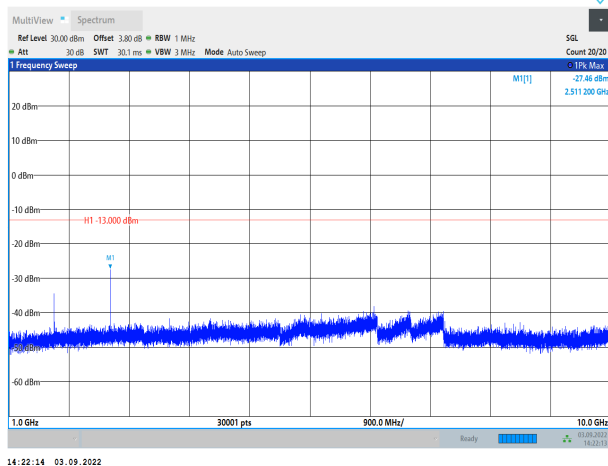
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GSM850-190-30~1000MHz



GSM850-190-1000~10000MHz



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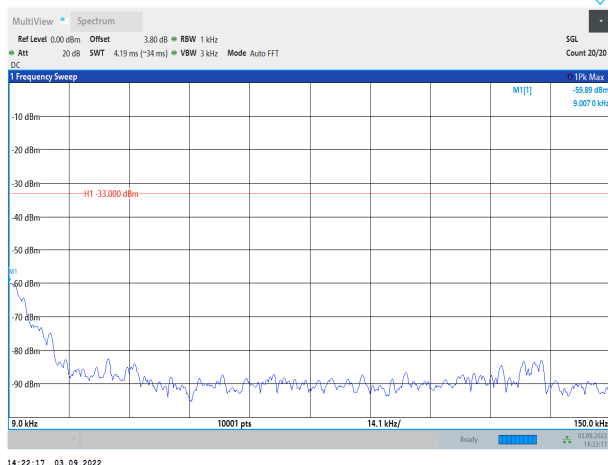
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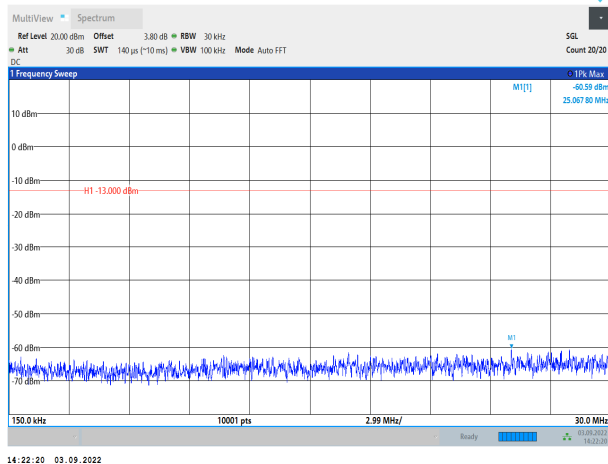
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GSM850-251-0.009~0.15MHz



GSM850-251-0.15~30MHz



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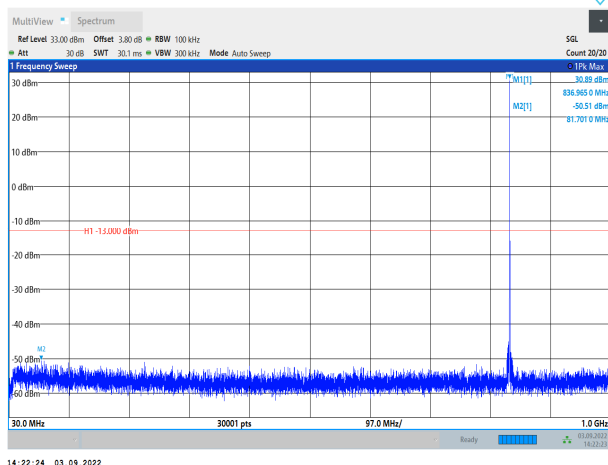


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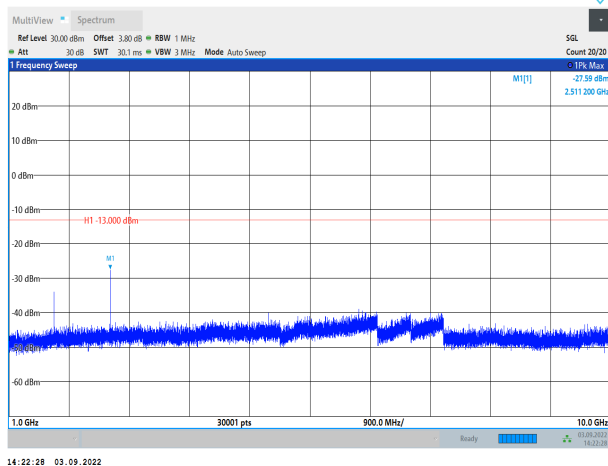
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GSM850-251-30~1000MHz



GSM850-251-1000~10000MHz



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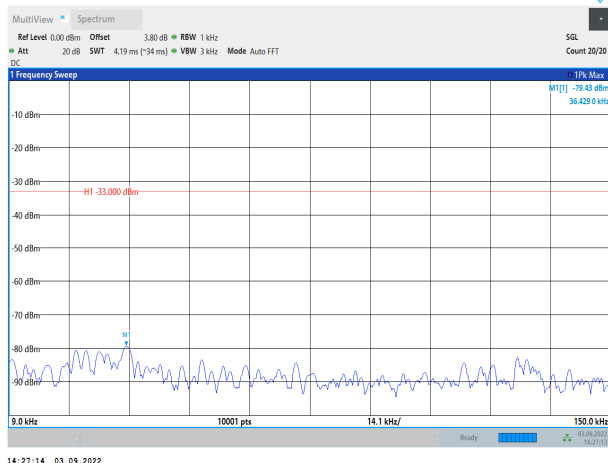
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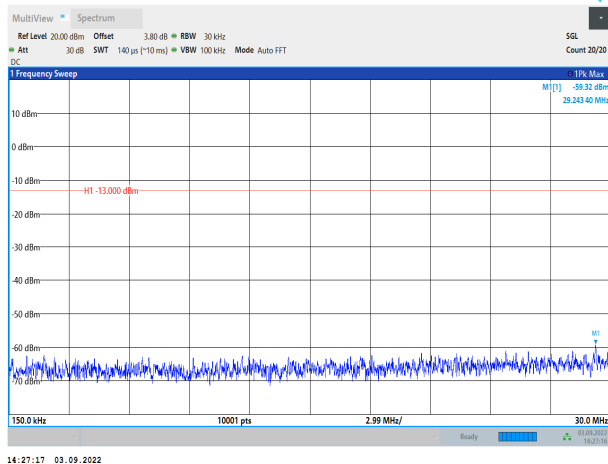
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EGPRS850-128-0.009~0.15MHz



EGPRS850-128-0.15~30MHz



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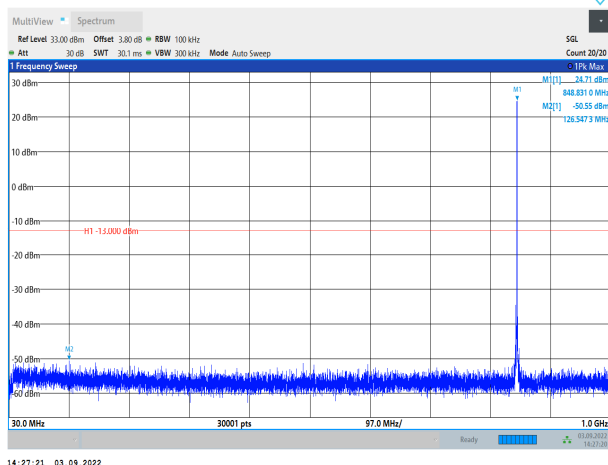
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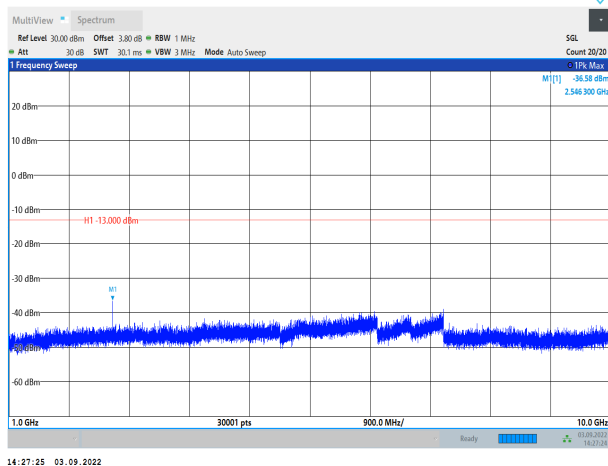
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EGPRS850-128-30~1000MHz



EGPRS850-128-1000~10000MHz



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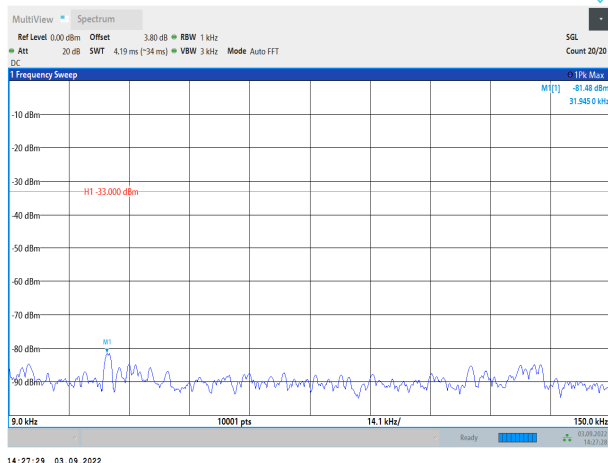
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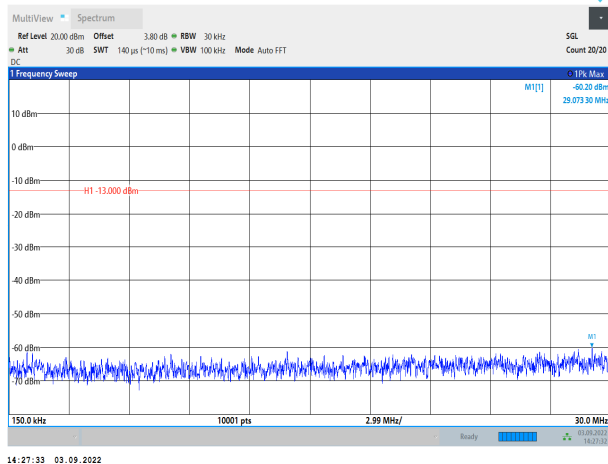
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EGPRS850-190-0.009~0.15MHz



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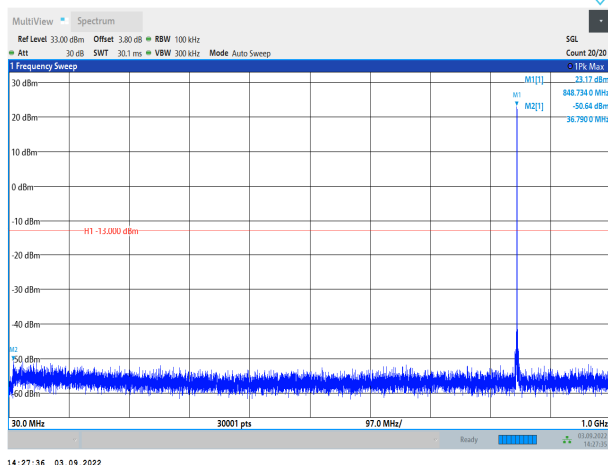


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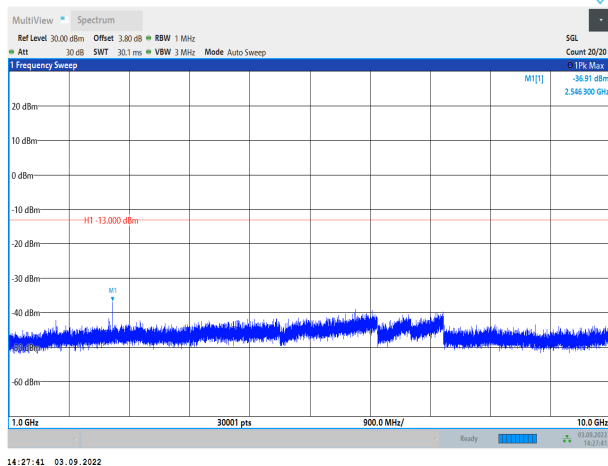
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EGPRS850-190-30~1000MHz



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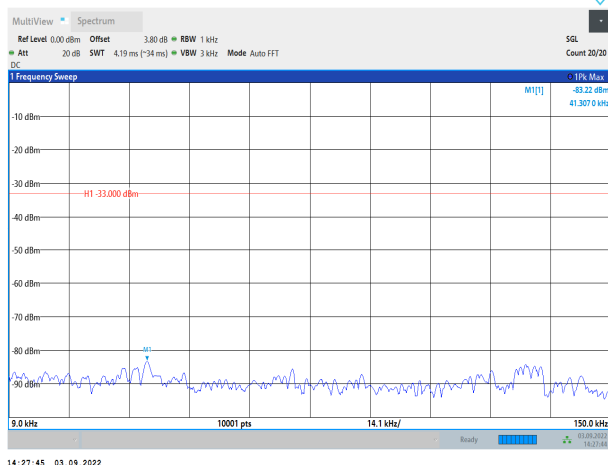
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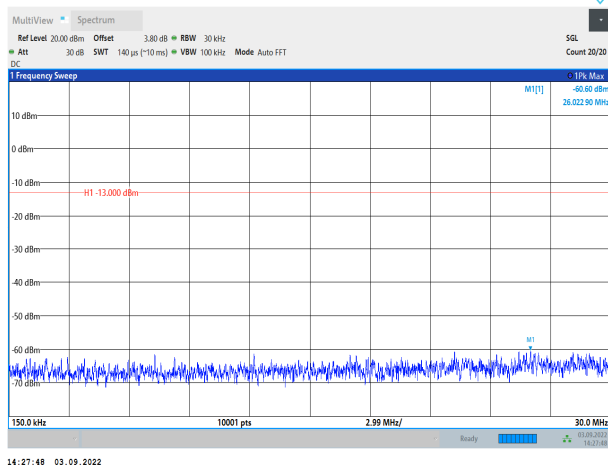
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EGPRS850-251-0.009~0.15MHz



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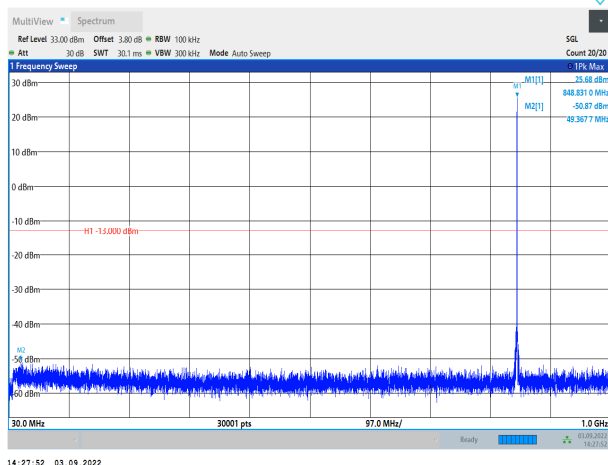


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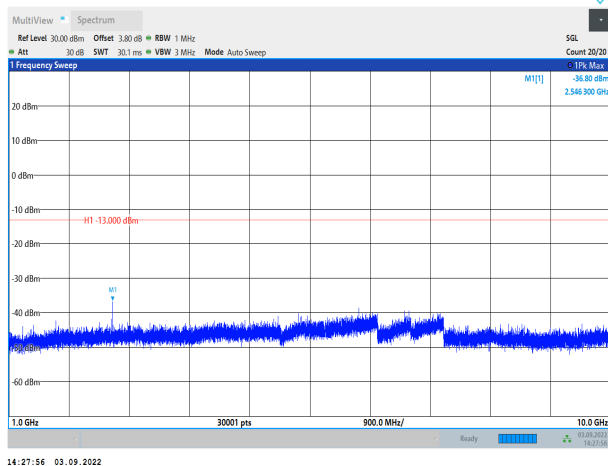
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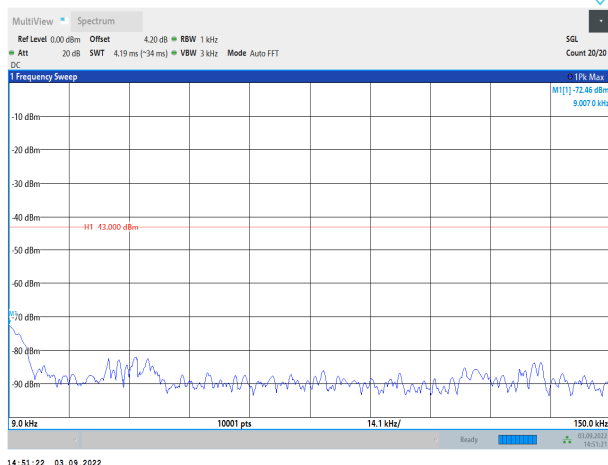
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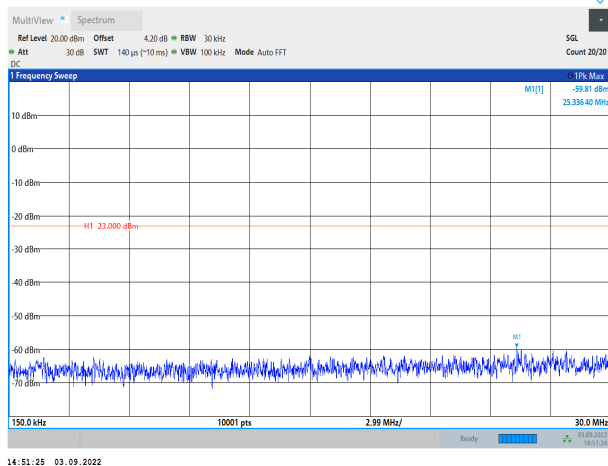
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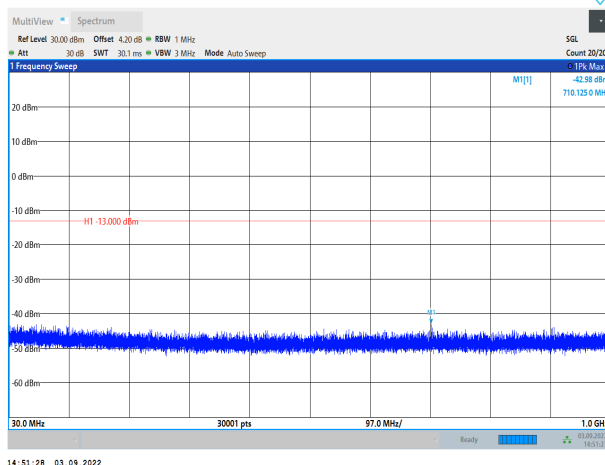
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Report No.: SEWA2204000009RG01

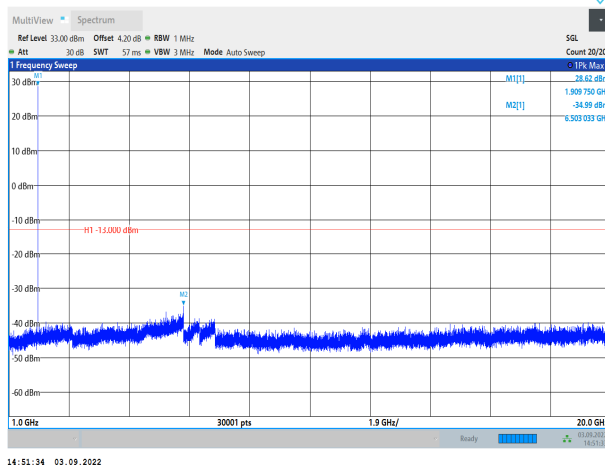
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GSM1900-512-30~1000MHz



GSM1900-512-1000~20000MHz



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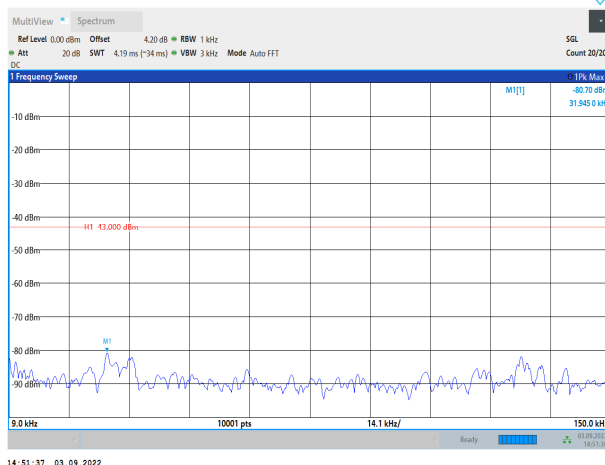
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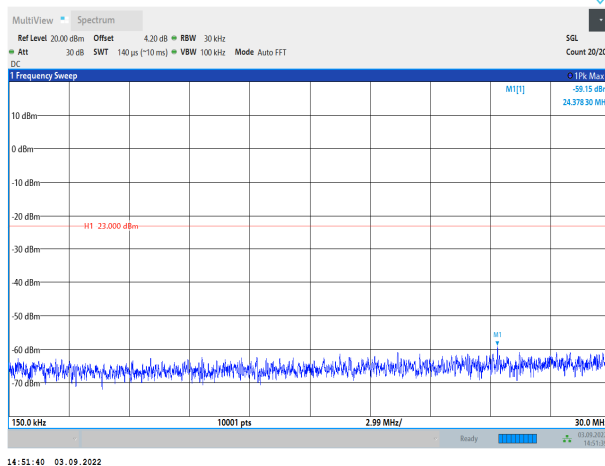
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GSM1900-661-0.009~0.15MHz



GSM1900-661-0.15~30MHz



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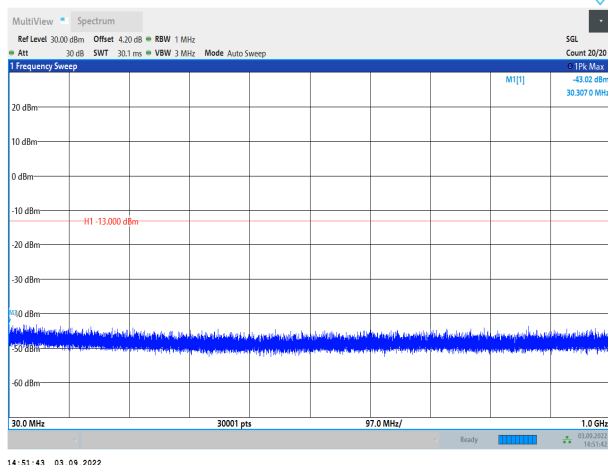
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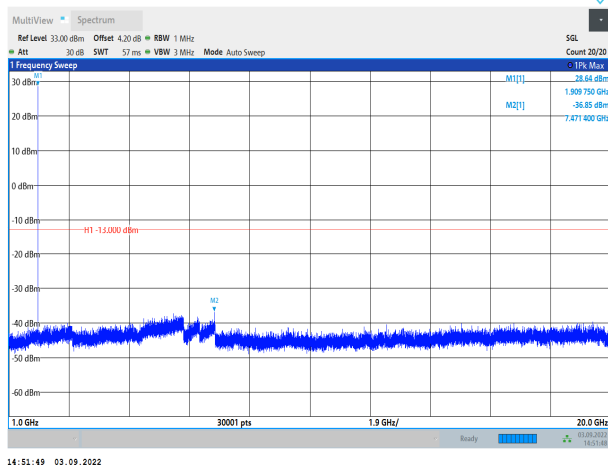
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GSM1900-661-30~1000MHz



GSM1900-661-1000~20000MHz



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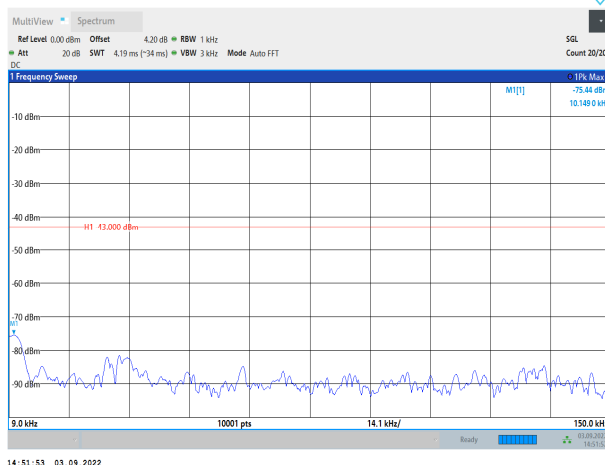
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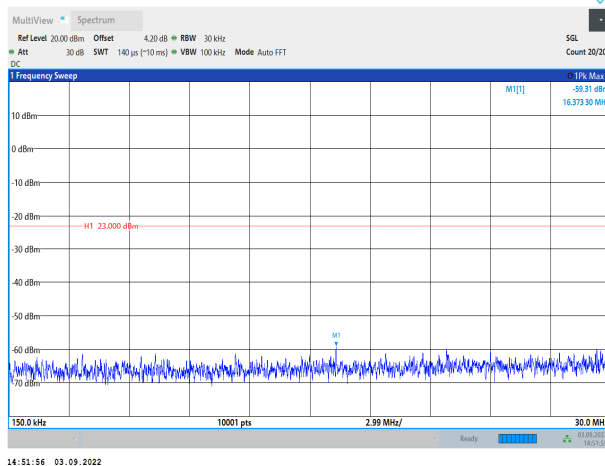
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GSM1900-810-0.009~0.15MHz



GSM1900-810-0.15~30MHz



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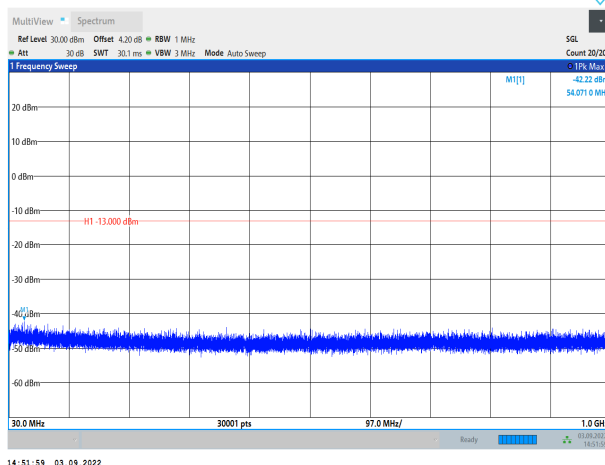
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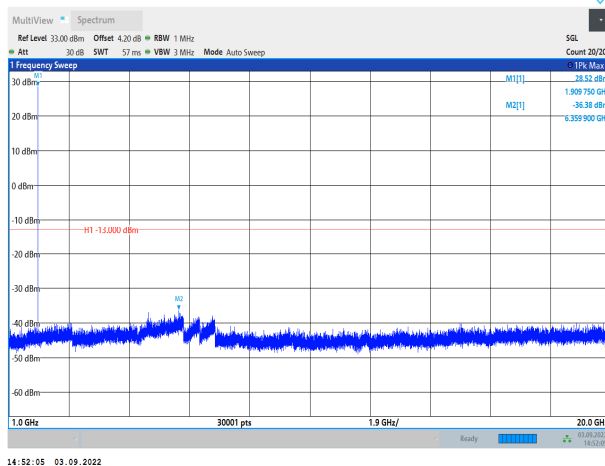
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GSM1900-810-30~1000MHz



GSM1900-810-1000~20000MHz



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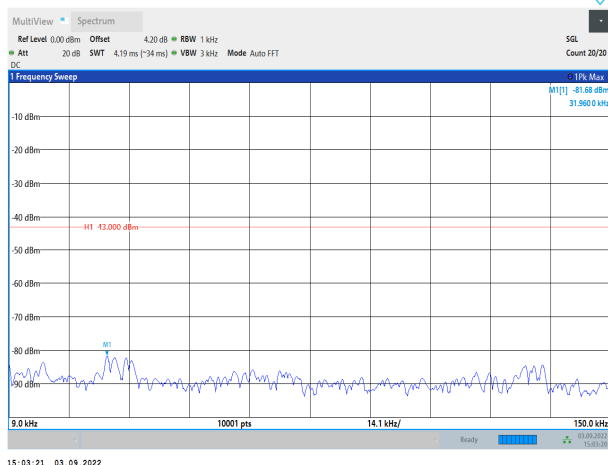
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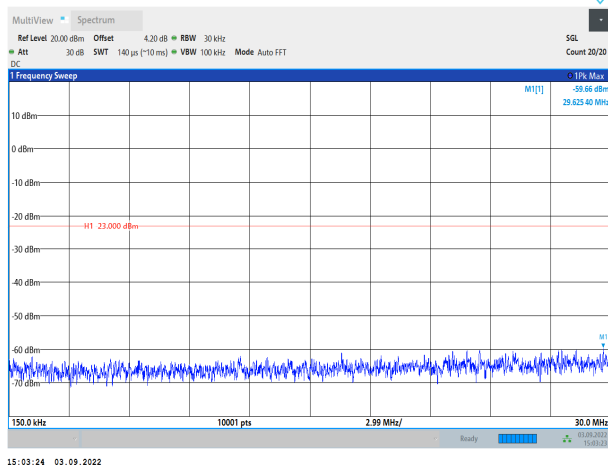
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EGPRS1900-512-0.009~0.15MHz



EGPRS1900-512-0.15~30MHz



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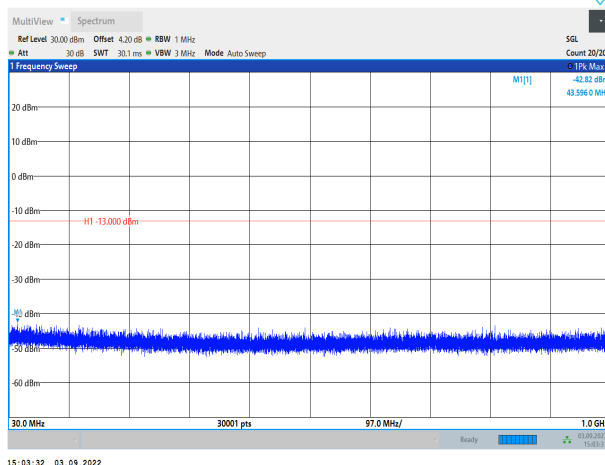


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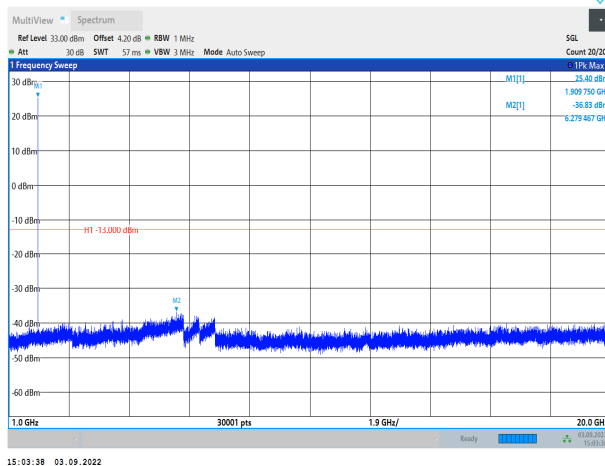
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EGPRS1900-512-30~1000MHz



EGPRS1900-512-1000~20000MHz



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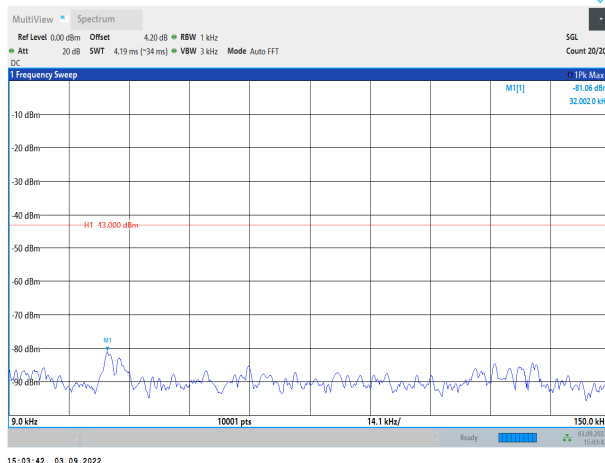
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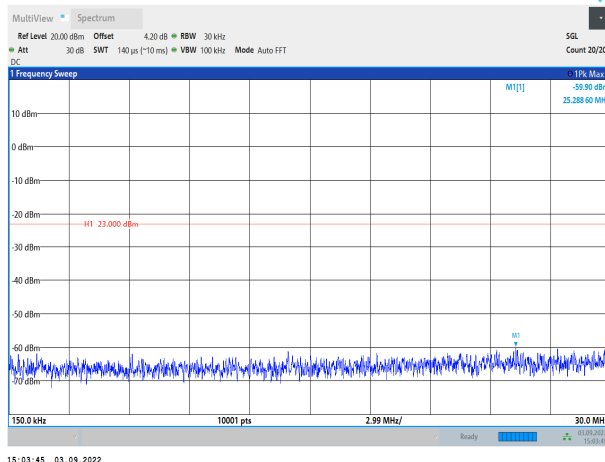
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EGPRS1900-661-0.009~0.15MHz



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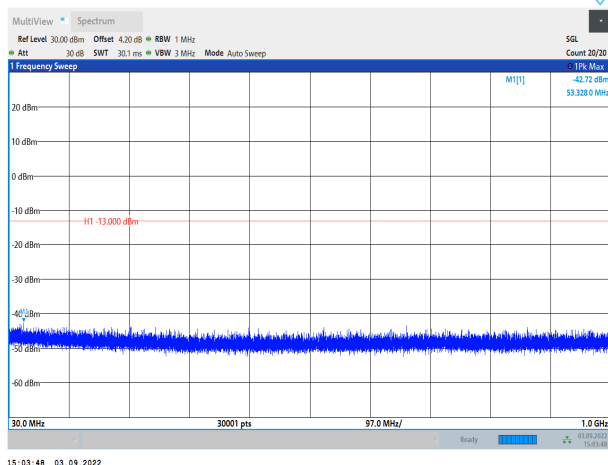
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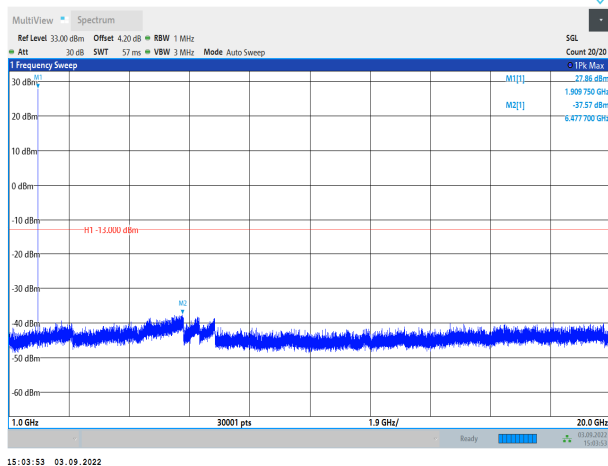
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EGPRS1900-661-30~1000MHz



EGPRS1900-661-1000~20000MHz



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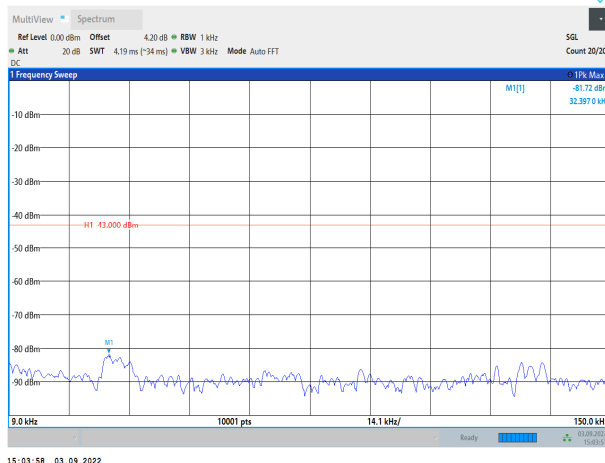
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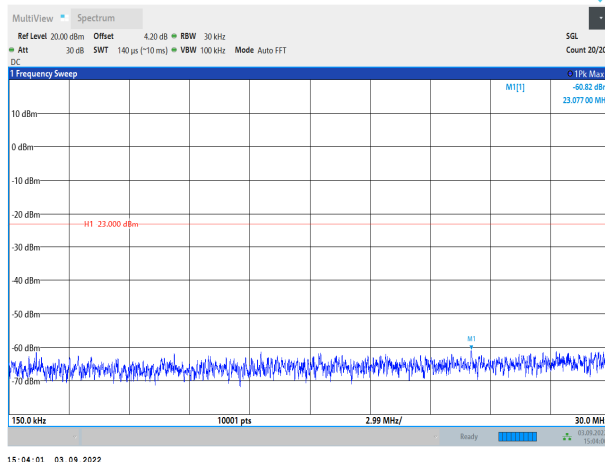
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EGPRS1900-810-0.009~0.15MHz



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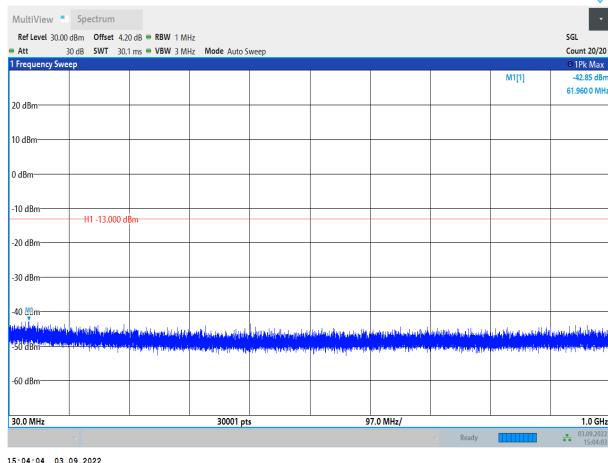


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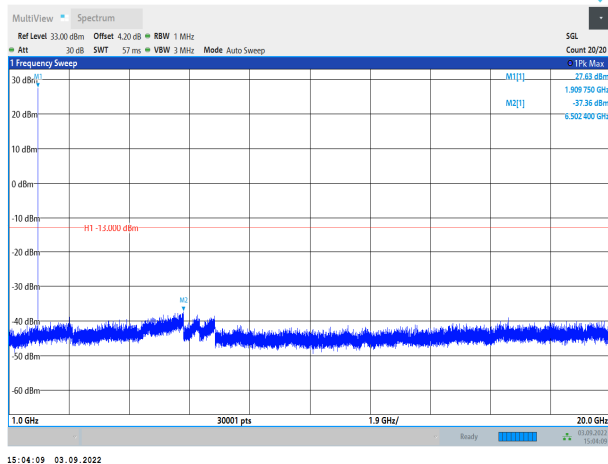
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Field Strength of Spurious Radiation

Test Band = GSM 850

Test Channel = Low Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648	65.94	-48.39	25.58	-52.13	-13.00	39.13	254	357	Horizontal
2	2472.6	59.96	-46.96	27.85	-54.41	-13.00	41.41	144	351	Horizontal
3	3296.8	52.65	-46.11	29.48	-59.24	-13.00	46.24	156	0	Horizontal
4	4121	50.06	-45.34	30.80	-59.75	-13.00	46.75	269	321	Horizontal
5	4945.2	51.28	-45.09	32.47	-56.60	-13.00	43.60	284	4	Horizontal
6	5769.4	51.20	-43.53	33.46	-54.12	-13.00	41.12	177	209	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4	56.17	-48.38	25.58	-61.90	-13.00	48.26	263	72	Vertical
2	2472.6	63.29	-46.96	27.85	-51.08	-13.00	38.08	265	323	Vertical
3	3296.8	55.24	-46.11	29.48	-56.65	-13.00	43.65	241	323	Vertical
4	4121	50.26	-45.34	30.80	-59.55	-13.00	46.55	142	26	Vertical
5	4945.2	55.01	-45.09	32.47	-52.87	-13.00	39.87	288	352	Vertical
6	5769.4	53.37	-43.53	33.46	-51.95	-13.00	38.95	263	345	Vertical



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Test Band = GSM 850
Test Channel = Mid Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8	66.72	-48.31	25.56	-51.29	-13.00	38.29	265	356	Horizontal
2	2509.2	60.47	-46.79	27.93	-53.65	-13.00	40.65	284	1	Horizontal
3	3345.6	51.89	-46.19	29.46	-60.10	-13.00	47.10	144	184	Horizontal
4	4182	50.02	-45.16	30.89	-59.51	-13.00	46.51	196	7	Horizontal
5	5018.4	50.88	-44.93	32.60	-56.71	-13.00	43.71	263	317	Horizontal
6	5854.8	51.01	-43.34	33.74	-53.85	-13.00	40.85	255	97	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8	57.89	-48.31	25.56	-60.12	-13.00	47.12	263	192	Vertical
2	2509.2	63.92	-46.79	27.93	-50.20	-13.00	37.20	265	340	Vertical
3	3345.6	53.54	-46.19	29.46	-58.45	-13.00	45.45	241	303	Vertical
4	4182	51.21	-45.16	30.89	-58.32	-13.00	45.32	142	10	Vertical
5	5018.4	53.33	-44.93	32.60	-54.26	-13.00	41.26	226	4	Vertical
6	5854.8	51.31	-43.34	33.74	-53.55	-13.00	40.55	268	360	Vertical



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Test Band = GSM 850
Test Channel = High Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6	73.07	-48.25	25.55	-44.88	-13.00	31.88	263	137	Horizontal
2	2546	60.15	-46.97	28.06	-54.02	-13.00	41.02	265	14	Horizontal
3	3395.2	51.59	-46.27	29.44	-60.50	-13.00	47.50	241	193	Horizontal
4	4244	51.16	-45.11	30.99	-58.22	-13.00	45.22	178	42	Horizontal
5	5092.8	52.15	-44.62	32.60	-55.13	-13.00	42.13	296	66	Horizontal
6	5941.6	50.61	-43.35	34.01	-53.99	-13.00	40.99	201	58	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6	74.13	-48.25	25.55	-43.82	-13.00	30.82	241	57	Vertical
2	2546	63.27	-46.97	28.06	-50.90	-13.00	37.90	174	307	Vertical
3	3395.2	51.97	-46.27	29.44	-60.12	-13.00	47.12	152	182	Vertical
4	4244	51.47	-45.11	30.99	-57.91	-13.00	44.91	263	293	Vertical
5	5118	57.25	-44.47	32.60	-49.88	-13.00	36.88	265	73	Vertical
6	5941.6	51.18	-43.35	34.01	-53.42	-13.00	40.42	204	284	Vertical



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Test Band = GSM 1900
Test Channel = Low Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3700.4	50.45	-45.70	29.88	-60.63	-13.00	47.63	263	112	Horizontal
2	5550.6	49.02	-43.87	32.76	-57.35	-13.00	44.35	254	148	Horizontal
3	7400.8	47.78	-41.98	36.44	-53.02	-13.00	40.02	142	353	Horizontal
4	9251	45.17	-38.39	38.57	-49.91	-13.00	36.91	286	353	Horizontal
5	11101.2	40.95	-35.37	39.50	-50.19	-13.00	37.19	263	185	Horizontal
6	12951.4	43.32	-34.89	39.55	-47.28	-13.00	34.28	201	185	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3700.4	53.07	-45.70	29.88	-58.01	-13.00	45.01	142	3	Vertical
2	5550.6	49.78	-43.87	32.76	-56.59	-13.00	43.59	265	322	Vertical
3	7400.8	47.56	-41.98	36.44	-53.24	-13.00	40.24	295	50	Vertical
4	9251	45.77	-38.39	38.57	-49.31	-13.00	36.31	241	160	Vertical
5	11101.2	41.30	-35.37	39.50	-49.84	-13.00	36.84	188	333	Vertical
6	12951.4	42.08	-34.89	39.55	-48.52	-13.00	35.52	263	37	Vertical



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Test Band = GSM 1900
Test Channel = Mid Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760	52.14	-45.54	30.03	-58.63	-13.00	45.63	241	122	Horizontal
2	5640	49.66	-43.81	33.05	-56.36	-13.00	43.36	142	13	Horizontal
3	7520	47.50	-41.53	36.54	-52.75	-13.00	39.75	263	360	Horizontal
4	9400	46.16	-38.16	38.56	-48.70	-13.00	35.70	295	270	Horizontal
5	11280	42.24	-35.28	39.32	-48.98	-13.00	35.98	284	360	Horizontal
6	13160	42.58	-34.68	39.70	-47.66	-13.00	34.66	176	3	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760	54.14	-45.54	30.03	-56.63	-13.00	43.63	226	360	Vertical
2	5640	53.29	-43.81	33.05	-52.73	-13.00	39.73	265	360	Vertical
3	7520	48.50	-41.53	36.54	-51.75	-13.00	38.75	241	284	Vertical
4	9400	45.40	-38.16	38.56	-49.46	-13.00	36.46	178	15	Vertical
5	11280	41.65	-35.28	39.32	-49.57	-13.00	36.57	296	198	Vertical
6	13160	41.76	-34.68	39.70	-48.48	-13.00	35.48	332	172	Vertical



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Test Band = GSM 1900
Test Channel = High Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3819.6	53.30	-45.44	30.17	-57.23	-13.00	44.23	142	99	Horizontal
2	7639.2	49.32	-41.29	36.78	-50.45	-13.00	37.45	265	199	Horizontal
3	9549	44.26	-38.13	38.55	-50.58	-13.00	37.58	233	260	Horizontal
4	11458.8	40.57	-35.27	39.14	-50.81	-13.00	37.81	214	63	Horizontal
5	13368.6	41.27	-35.13	39.82	-49.30	-13.00	36.30	196	161	Horizontal
6	17670	41.25	-31.22	41.28	-43.95	-13.00	30.95	266	360	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3819.6	55.34	-45.44	30.17	-55.19	-13.00	42.19	263	260	Vertical
2	7639.2	51.08	-41.29	36.78	-48.69	-13.00	35.69	241	235	Vertical
3	9549	44.32	-38.13	38.55	-50.52	-13.00	37.52	152	222	Vertical
4	11458.8	41.09	-35.27	39.14	-50.29	-13.00	37.29	263	360	Vertical
5	13368.6	41.33	-35.13	39.82	-49.24	-13.00	36.24	201	321	Vertical
6	15811.5	43.87	-34.04	38.15	-47.29	-13.00	34.29	196	260	Vertical

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) - Pre-amplifier (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	3.23	0.003861	±2.5	PASS
GSM850	190	VN	NT	8.84	0.010567	±2.5	PASS
GSM850	190	VH	NT	9.47	0.011320	±2.5	PASS
EGPRS850	190	VL	NT	30.98	0.037031	±2.5	PASS
EGPRS850	190	VN	NT	25.94	0.031006	±2.5	PASS
EGPRS850	190	VH	NT	24.18	0.028903	±2.5	PASS

Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	VL	NT	24.63	0.013101	PASS
GSM1900	661	VN	NT	16.99	0.009037	PASS
GSM1900	661	VH	NT	14.19	0.007548	PASS
EGPRS1900	661	VL	NT	20.79	0.011059	PASS
EGPRS1900	661	VN	NT	31.93	0.016984	PASS
EGPRS1900	661	VH	NT	28.02	0.014904	PASS



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Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	4.99	0.005965	±2.5	PASS
GSM850	190	NV	-20	11.11	0.013280	±2.5	PASS
GSM850	190	NV	-10	7.32	0.008750	±2.5	PASS
GSM850	190	NV	0	2.50	0.002988	±2.5	PASS
GSM850	190	NV	10	8.40	0.010041	±2.5	PASS
GSM850	190	NV	20	4.84	0.005785	±2.5	PASS
GSM850	190	NV	30	10.89	0.013017	±2.5	PASS
GSM850	190	NV	40	8.27	0.009885	±2.5	PASS
GSM850	190	NV	50	5.03	0.006012	±2.5	PASS
EGPRS850	190	NV	-30	29.07	0.034748	±2.5	PASS
EGPRS850	190	NV	-20	33.47	0.040007	±2.5	PASS
EGPRS850	190	NV	-10	26.64	0.031843	±2.5	PASS
EGPRS850	190	NV	0	31.25	0.037354	±2.5	PASS
EGPRS850	190	NV	10	23.72	0.028353	±2.5	PASS
EGPRS850	190	NV	20	27.65	0.033050	±2.5	PASS
EGPRS850	190	NV	30	31.13	0.037210	±2.5	PASS
EGPRS850	190	NV	40	23.39	0.027958	±2.5	PASS
EGPRS850	190	NV	50	25.62	0.030624	±2.5	PASS



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Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	NV	-30	22.37	0.011899	PASS
GSM1900	661	NV	-20	11.82	0.006287	PASS
GSM1900	661	NV	-10	19.21	0.010218	PASS
GSM1900	661	NV	0	8.09	0.004303	PASS
GSM1900	661	NV	10	16.30	0.008670	PASS
GSM1900	661	NV	20	24.20	0.012872	PASS
GSM1900	661	NV	30	13.74	0.007309	PASS
GSM1900	661	NV	40	23.02	0.012245	PASS
GSM1900	661	NV	50	14.15	0.007527	PASS
EGPRS1900	661	NV	-30	34.63	0.018420	PASS
EGPRS1900	661	NV	-20	25.58	0.013606	PASS
EGPRS1900	661	NV	-10	29.50	0.015691	PASS
EGPRS1900	661	NV	0	36.93	0.019644	PASS
EGPRS1900	661	NV	10	29.06	0.015457	PASS
EGPRS1900	661	NV	20	21.17	0.011261	PASS
EGPRS1900	661	NV	30	28.76	0.015298	PASS
EGPRS1900	661	NV	40	37.41	0.019899	PASS
EGPRS1900	661	NV	50	21.64	0.011511	PASS

---End of Attachment---



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