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Appendix B.1

GSM850&1900



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant13:

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
GSM850	128	32.02	24.57	38.45	PASS
GSM850	190	32.13	24.68	38.45	PASS
GSM850	251	32.34	24.89	38.45	PASS

Ant13:

Band	Channel	Slot	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	26.34	18.89	38.45	PASS
EGPRS850	128	2	23.68	16.23	38.45	PASS
EGPRS850	128	3	21.95	14.5	38.45	PASS
EGPRS850	128	4	20.61	13.16	38.45	PASS
EGPRS850	190	1	26.58	19.13	38.45	PASS
EGPRS850	190	2	24.00	16.55	38.45	PASS
EGPRS850	190	3	22.27	14.82	38.45	PASS
EGPRS850	190	4	20.81	13.36	38.45	PASS
EGPRS850	251	1	26.79	19.34	38.45	PASS
EGPRS850	251	2	24.12	16.67	38.45	PASS
EGPRS850	251	3	22.44	14.99	38.45	PASS
EGPRS850	251	4	21.03	13.58	38.45	PASS



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Ant13:

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	29.23	28.03	33.00	PASS
GSM1900	661	29.01	27.81	33.00	PASS
GSM1900	810	28.81	27.61	33.00	PASS

Ant13:

Band	Channel	Slot	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	25.00	23.80	33.00	PASS
EGPRS1900	512	2	23.21	22.01	33.00	PASS
EGPRS1900	512	3	21.35	20.15	33.00	PASS
EGPRS1900	512	4	20.28	19.08	33.00	PASS
EGPRS1900	661	1	25.76	24.56	33.00	PASS
EGPRS1900	661	2	23.04	21.84	33.00	PASS
EGPRS1900	661	3	20.89	19.69	33.00	PASS
EGPRS1900	661	4	19.82	18.62	33.00	PASS
EGPRS1900	810	1	25.28	24.08	33.00	PASS
EGPRS1900	810	2	22.75	21.55	33.00	PASS
EGPRS1900	810	3	20.76	19.56	33.00	PASS
EGPRS1900	810	4	19.61	18.41	33.00	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	8.38	13	PASS
GSM850	190	8.2	13	PASS
GSM850	251	8.1	13	PASS
EGPRS850	128	12.68	13	PASS
EGPRS850	190	12.66	13	PASS
EGPRS850	251	12.62	13	PASS
GSM1900	512	9.6	13	PASS
GSM1900	661	9.58	13	PASS
GSM1900	810	9.56	13	PASS
EGPRS1900	512	12.68	13	PASS
EGPRS1900	661	12.24	13	PASS
EGPRS1900	810	12.54	13	PASS



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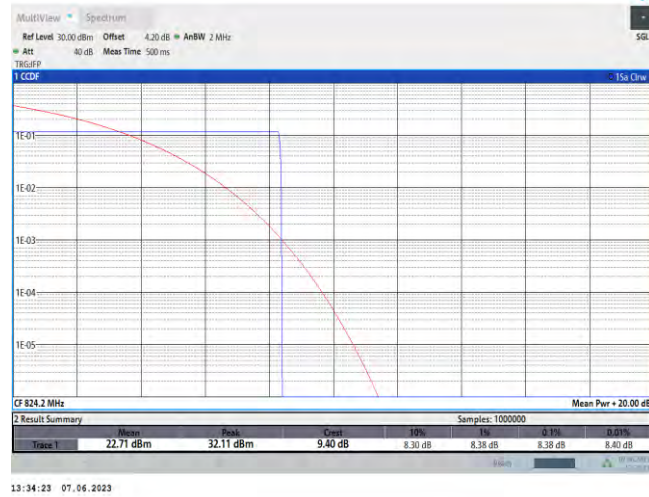
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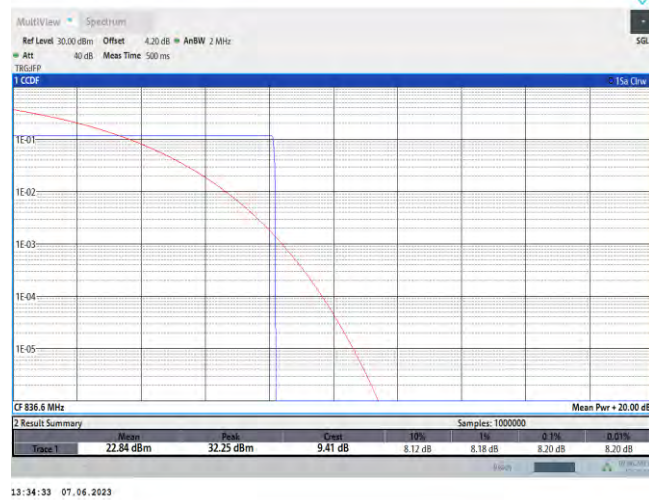
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Test Graphs

GSM850-128



GSM850-190



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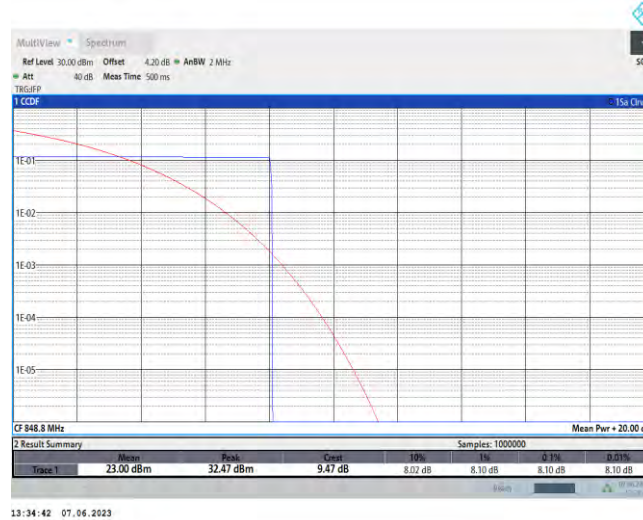
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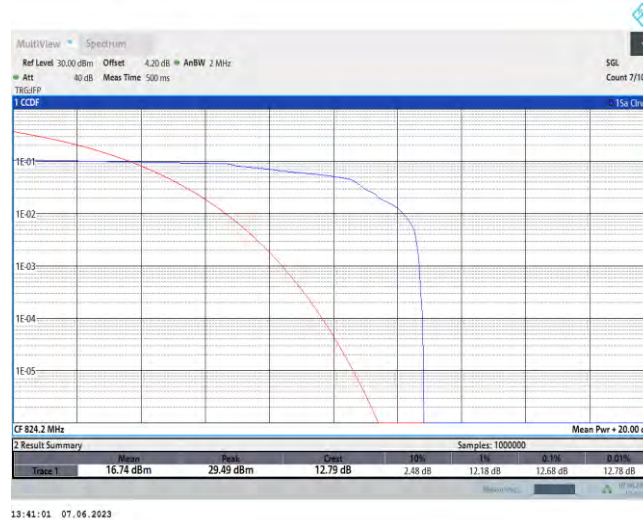
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EGPRS850-128



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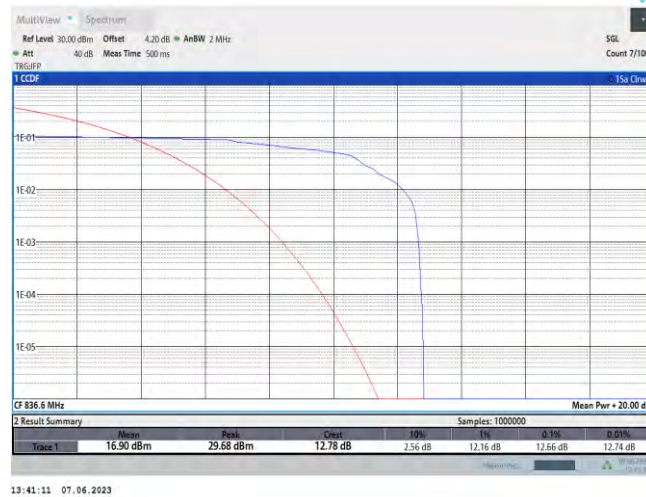
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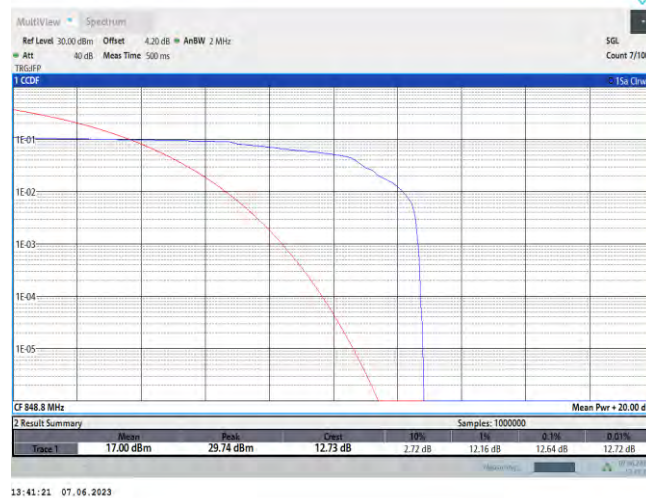
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EGPRS850-251



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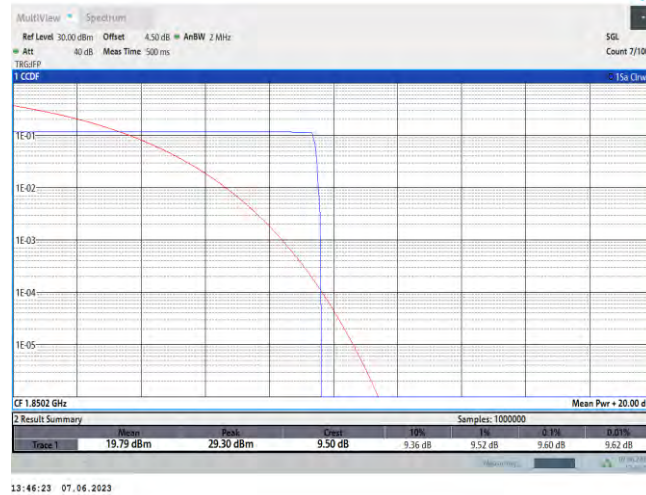
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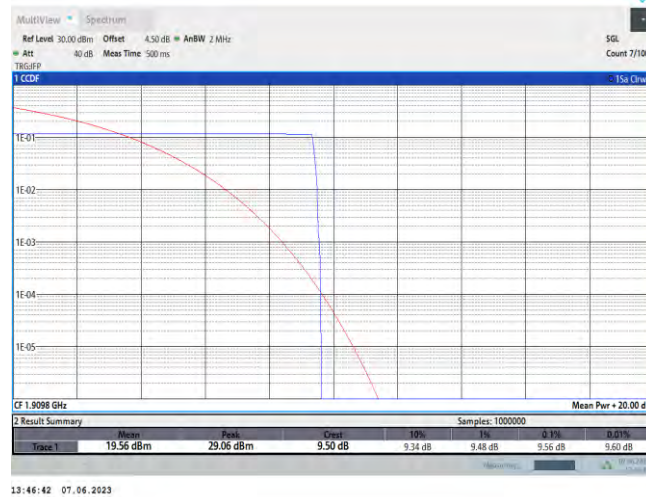
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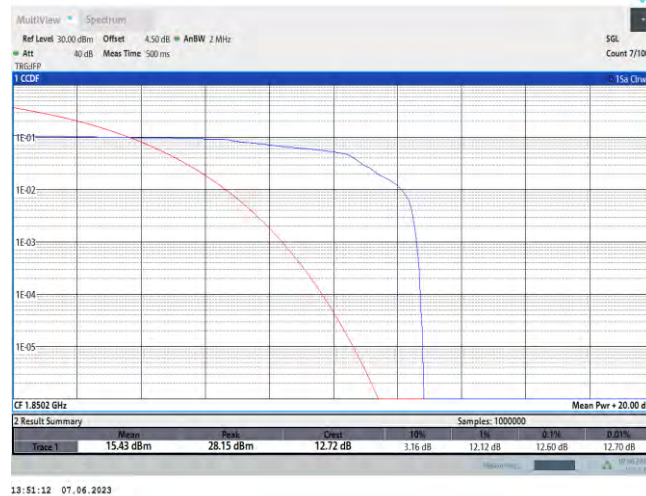
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EGPRS1900-512



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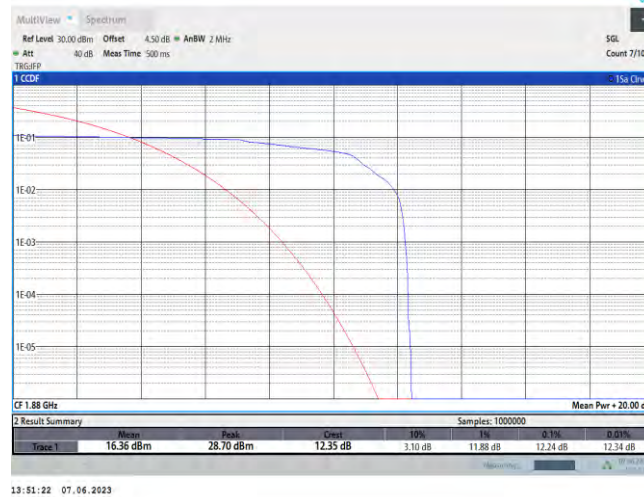
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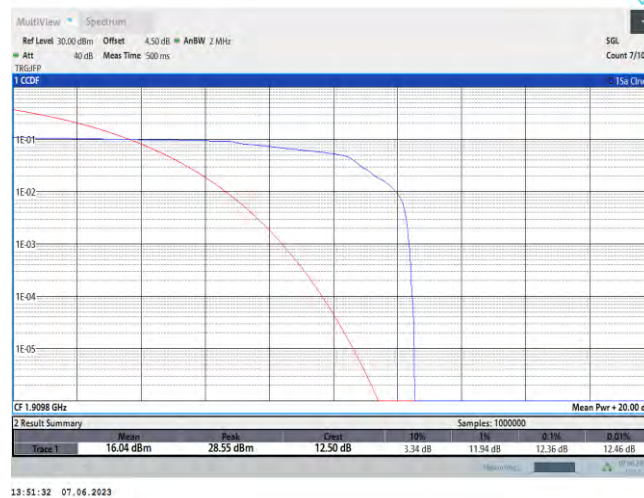
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EGPRS1900-661



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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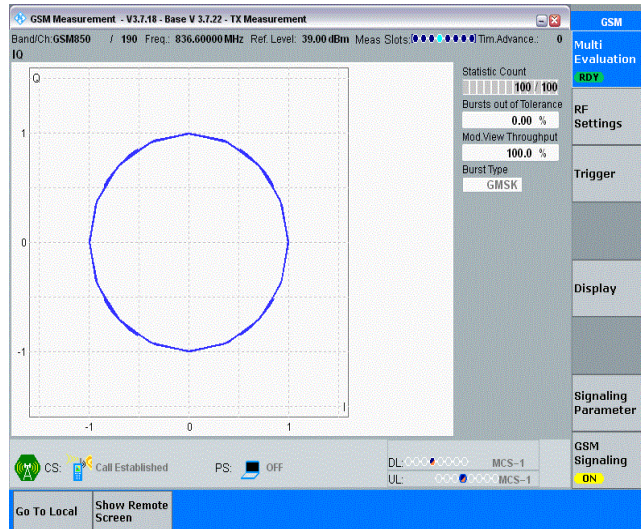
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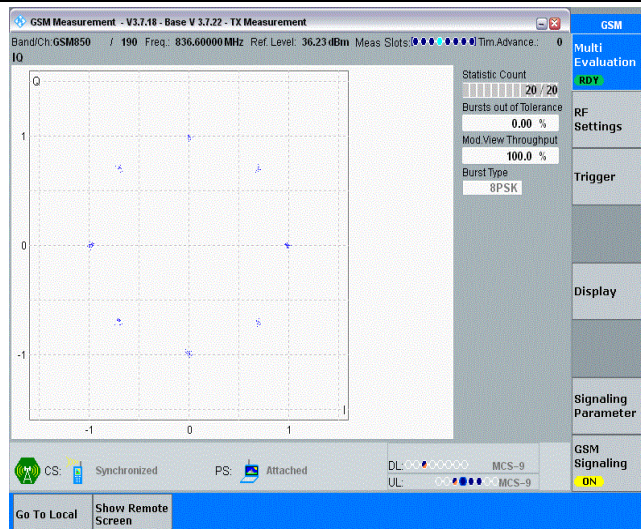
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Test Graphs

GSM850-190



EGPRS850-190



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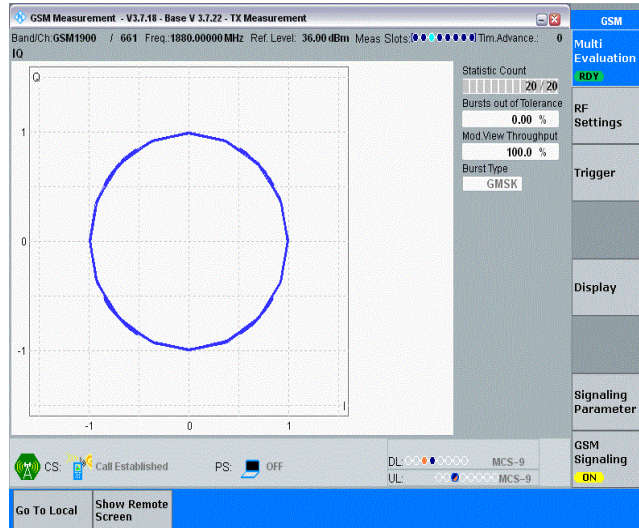
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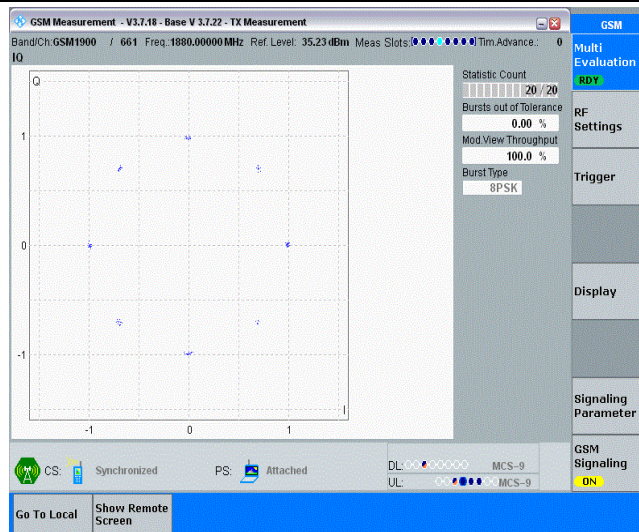
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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.246	0.32	---	PASS
GSM850	190	0.246	0.32	---	PASS
GSM850	251	0.243	0.32	---	PASS
EGPRS850	128	0.246	0.31	---	PASS
EGPRS850	190	0.246	0.32	---	PASS
EGPRS850	251	0.248	0.32	---	PASS
GSM1900	512	0.247	0.32	---	PASS
GSM1900	661	0.245	0.32	---	PASS
GSM1900	810	0.245	0.32	---	PASS
EGPRS1900	512	0.249	0.32	---	PASS
EGPRS1900	661	0.247	0.32	---	PASS
EGPRS1900	810	0.246	0.31	---	PASS



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Test Graphs

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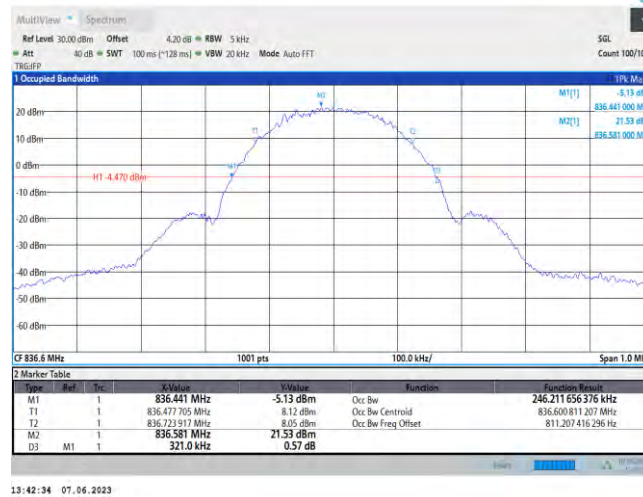
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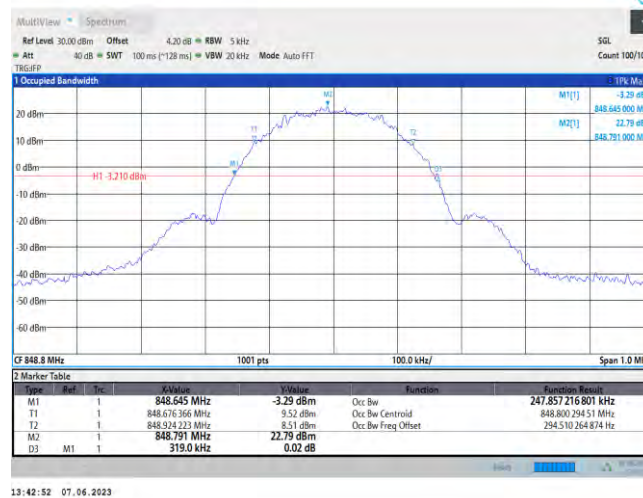
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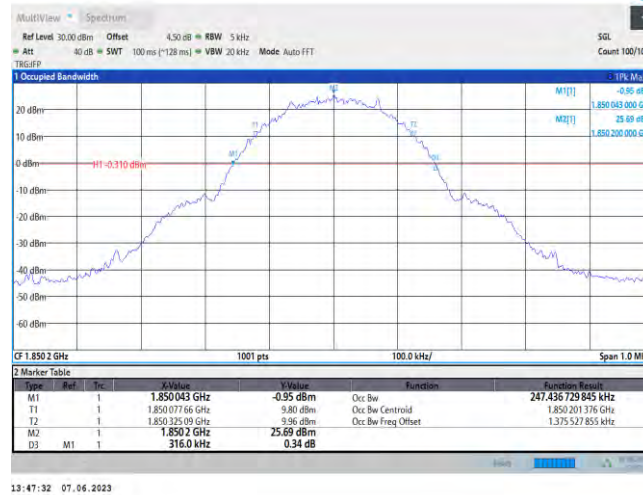
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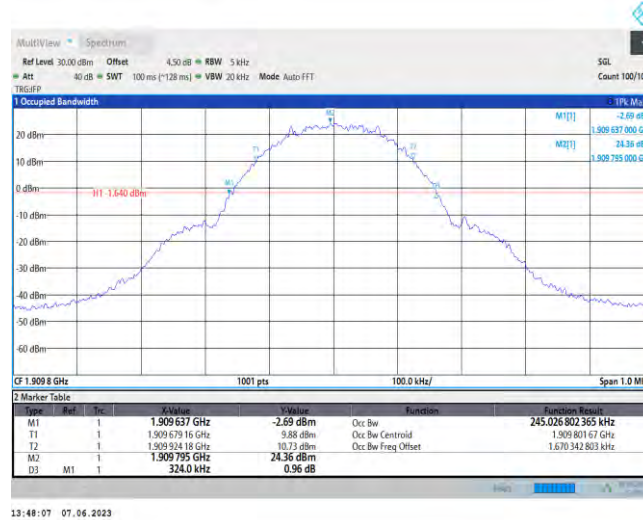
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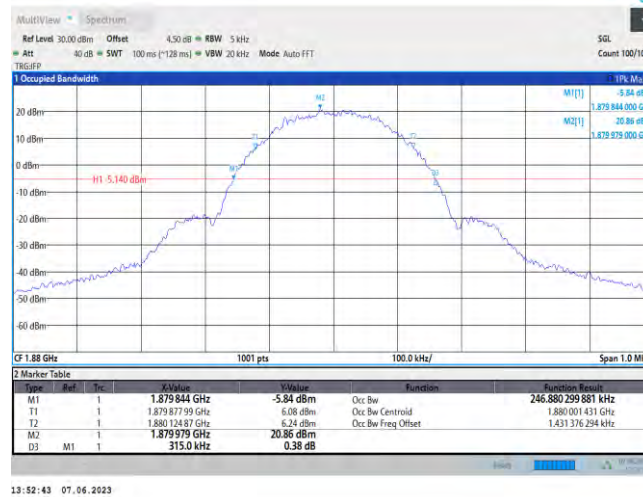
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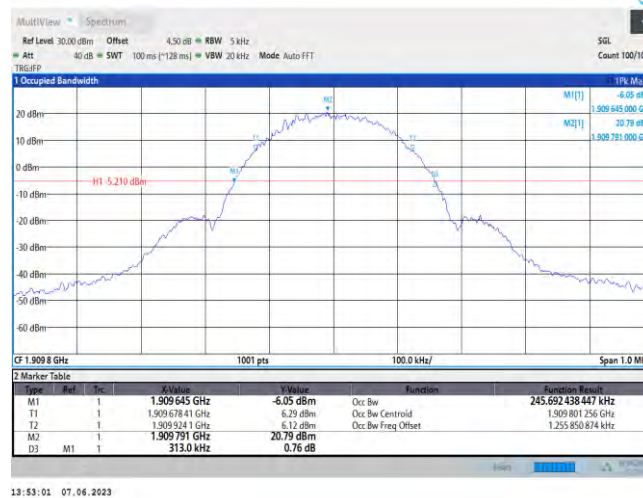
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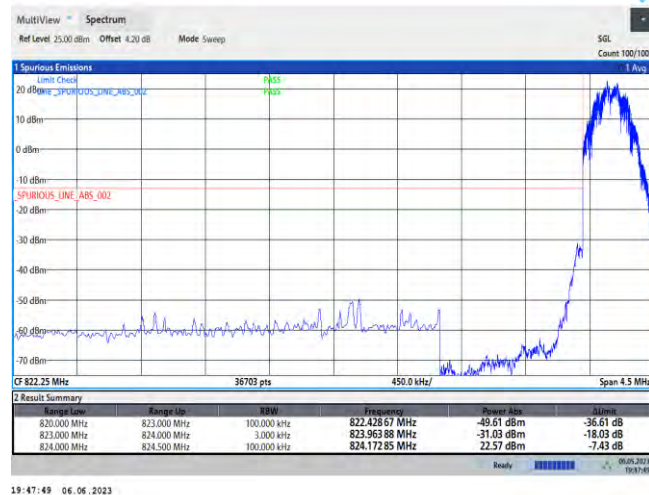
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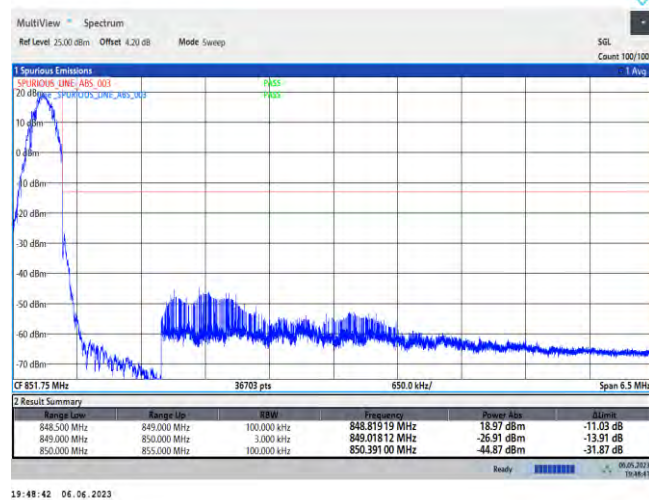
Band Edge

Test Graphs

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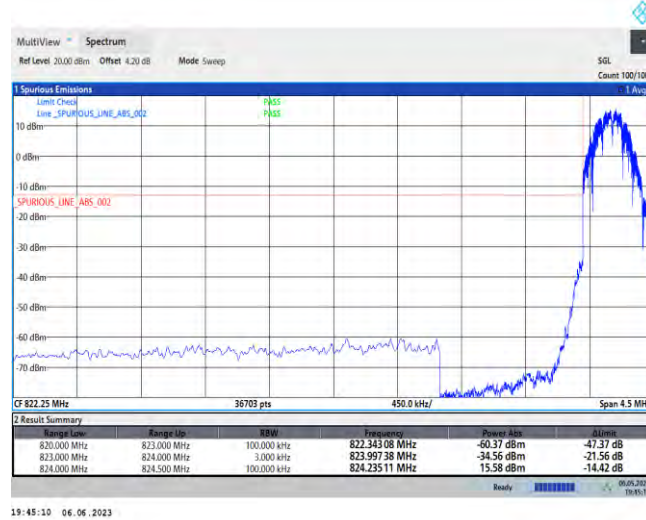
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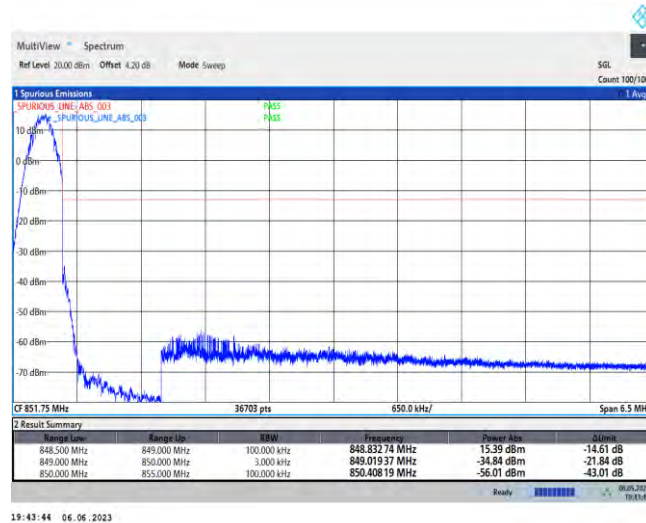
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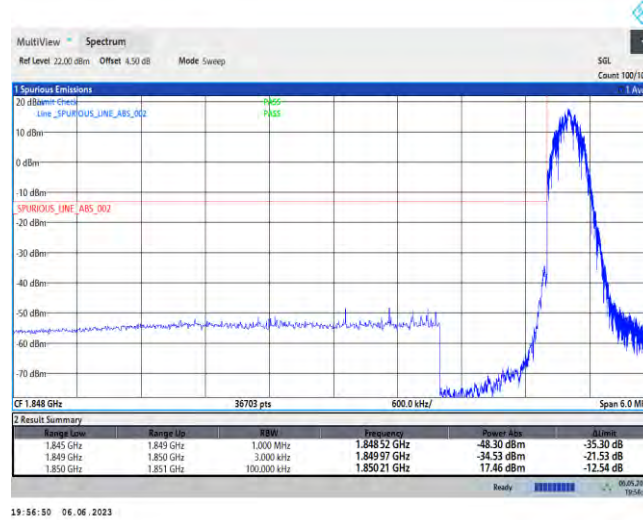
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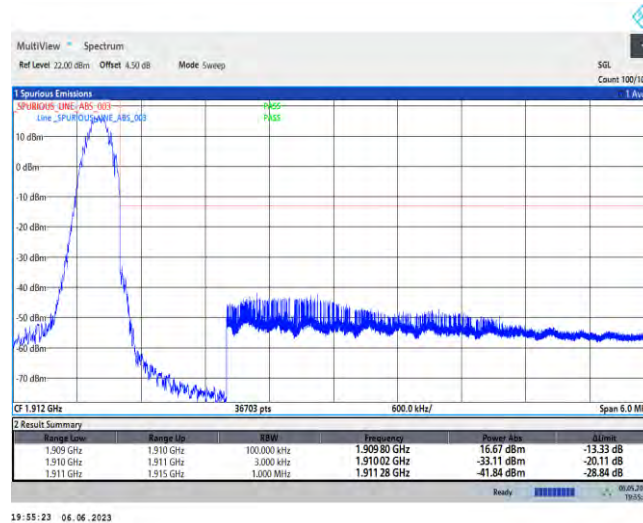
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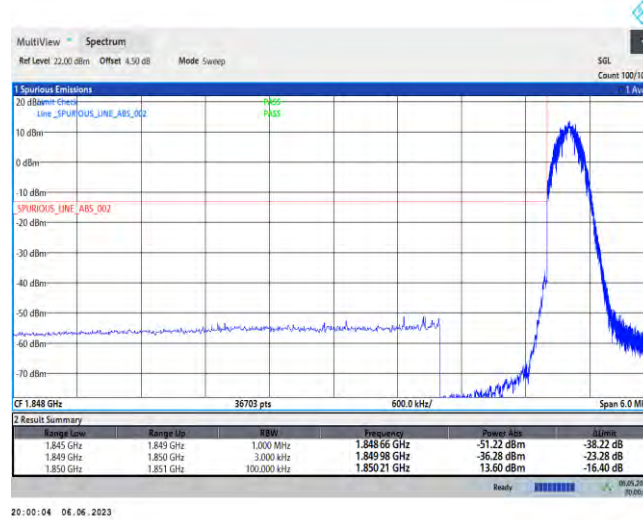
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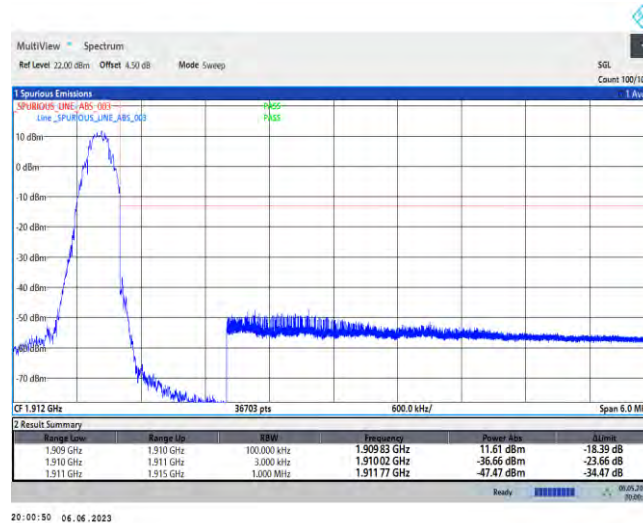
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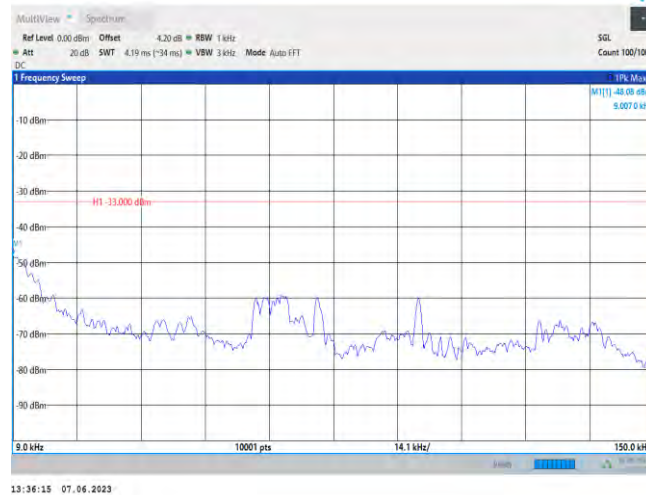
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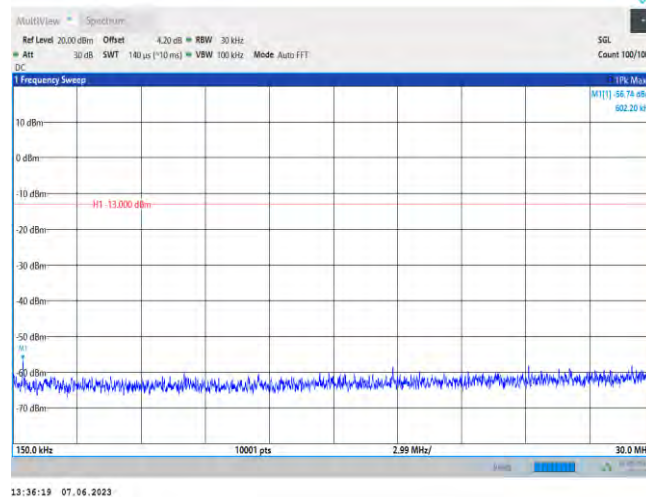
Conducted Spurious Emission

Test Graphs

GSM850-128-0.009~0.15MHz



GSM850-128-0.15~30MHz



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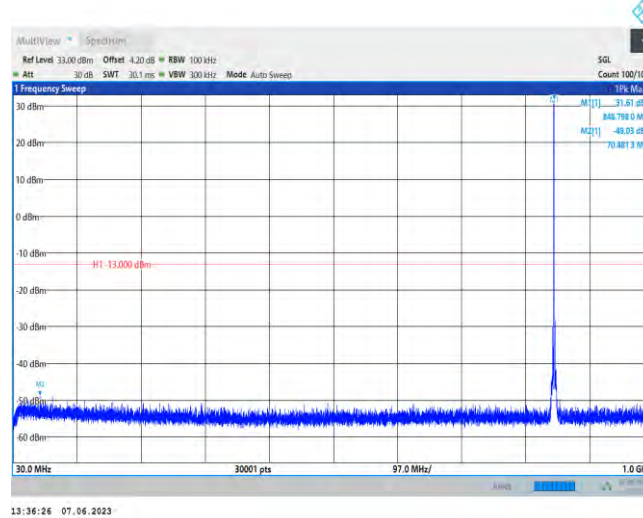
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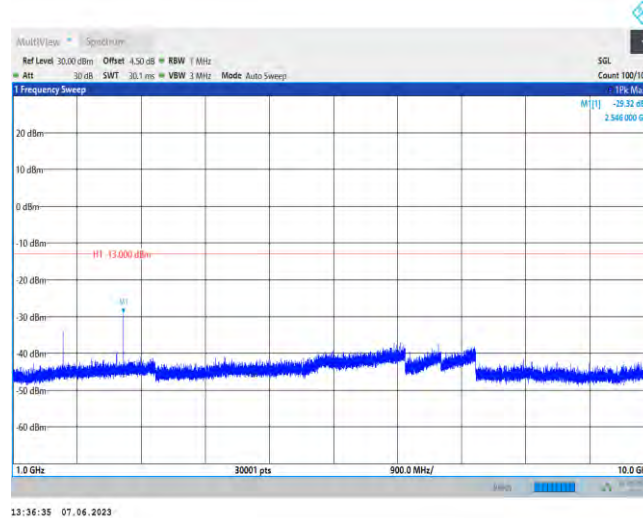
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GSM850-128-30~1000MHz



GSM850-128-1000~10000MHz



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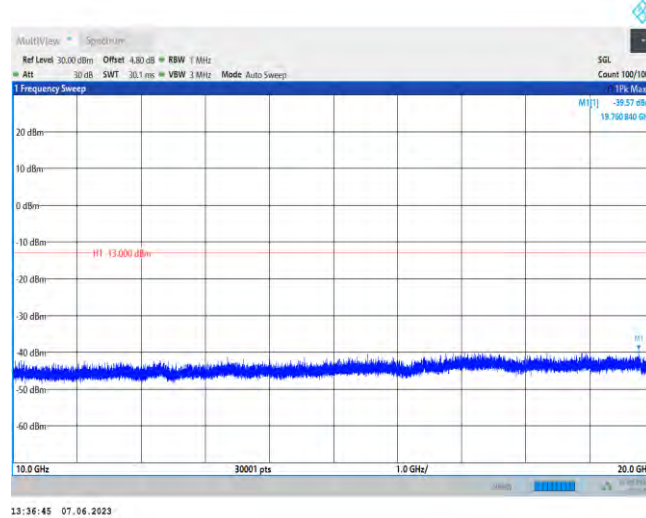
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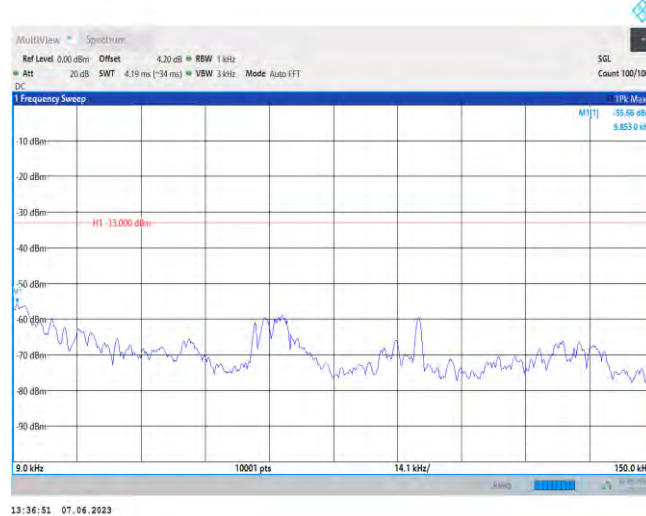
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GSM850-128-10000~20000MHz



GSM850-190-0.009~0.15MHz



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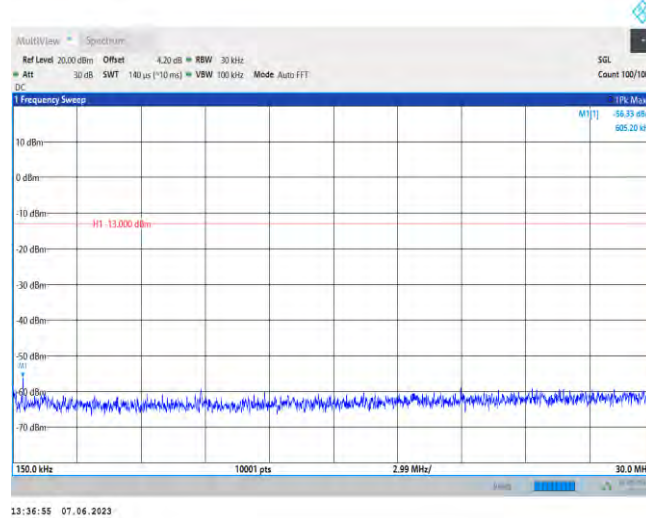
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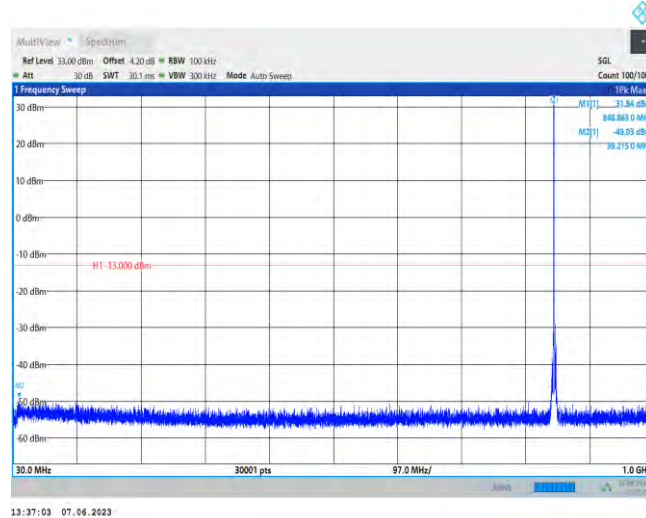
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GSM850-190-0.15~30MHz



GSM850-190-30~1000MHz



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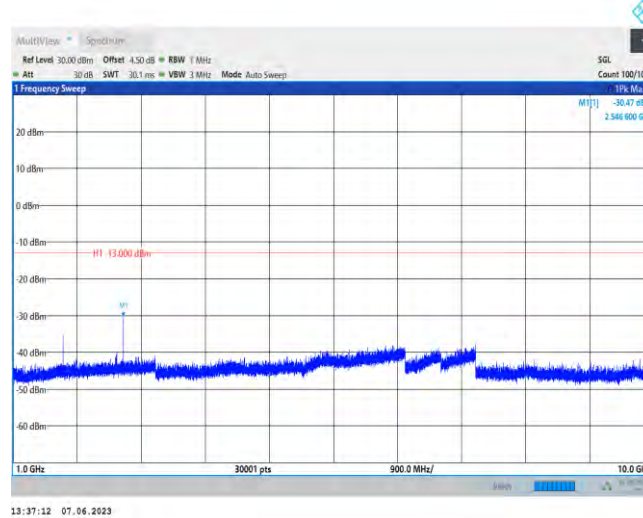
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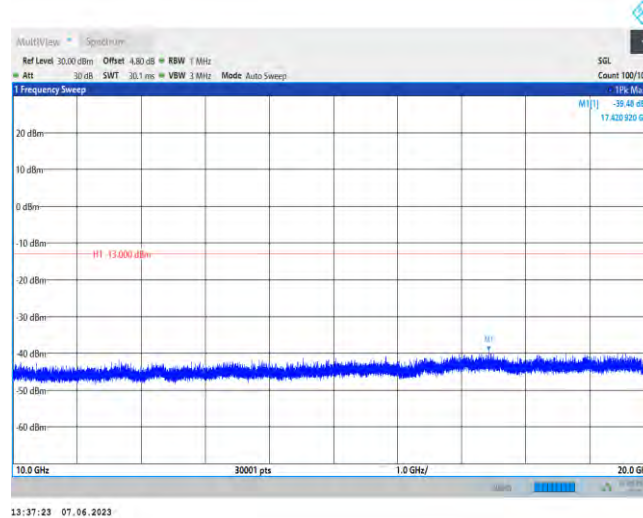
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GSM850-190-1000~10000MHz



GSM850-190-10000~20000MHz



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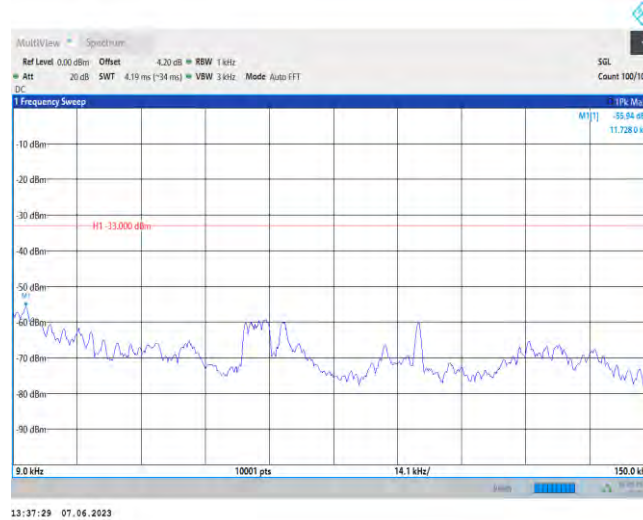
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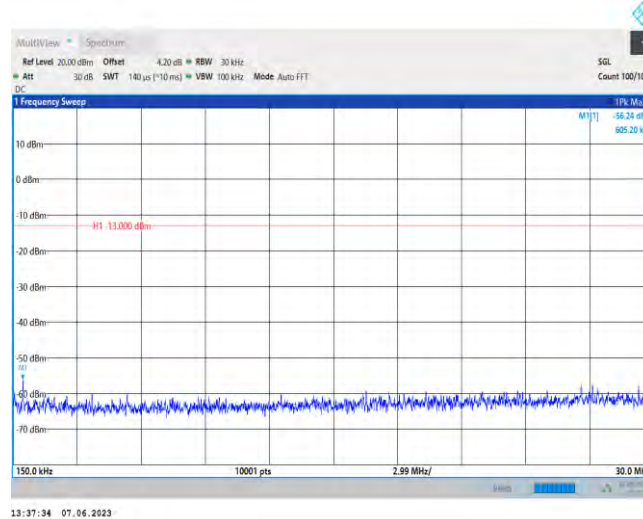
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GSM850-251-0.009~0.15MHz



GSM850-251-0.15~30MHz



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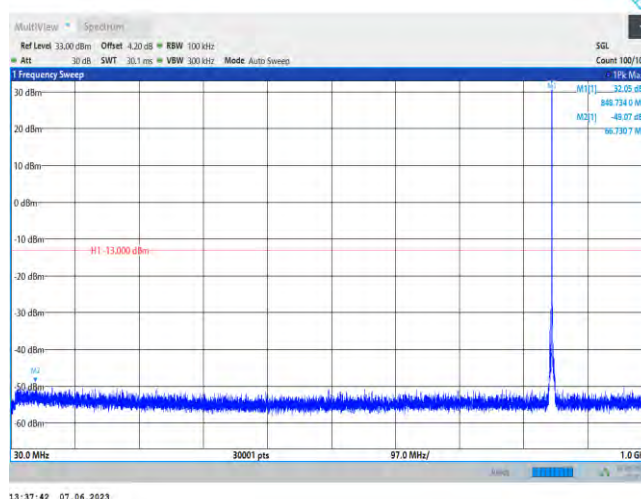
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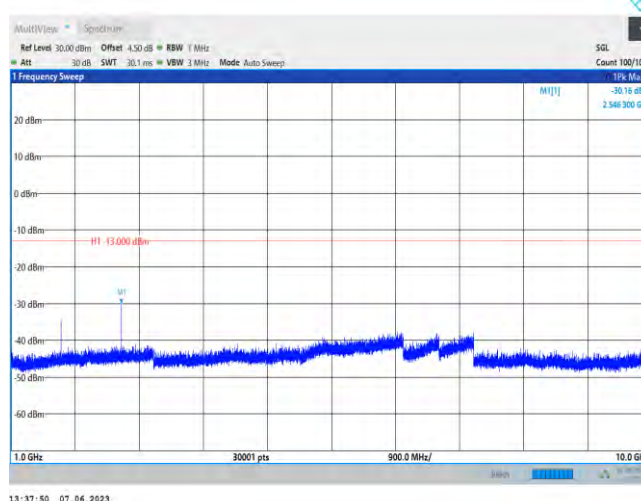
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GSM850-251-30~1000MHz



GSM850-251-1000~10000MHz



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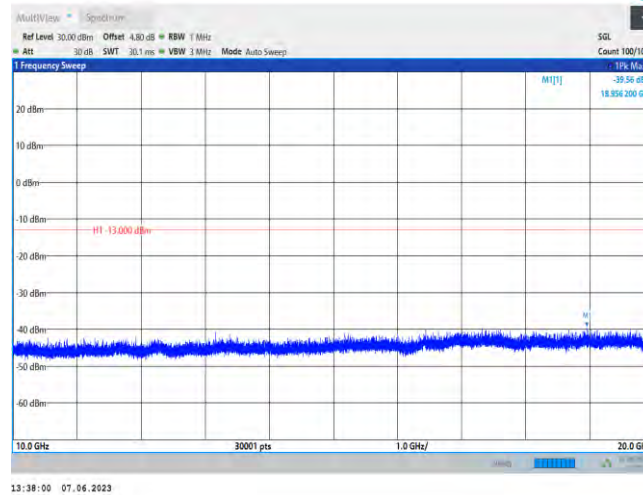
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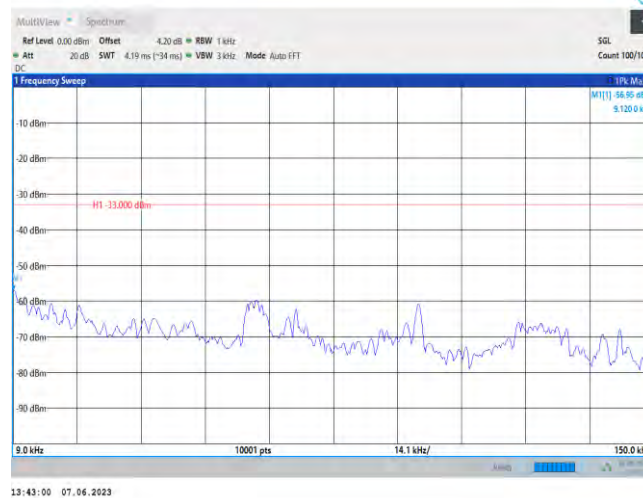
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GSM850-251-10000~20000MHz



EGPRS850-128-0.009~0.15MHz



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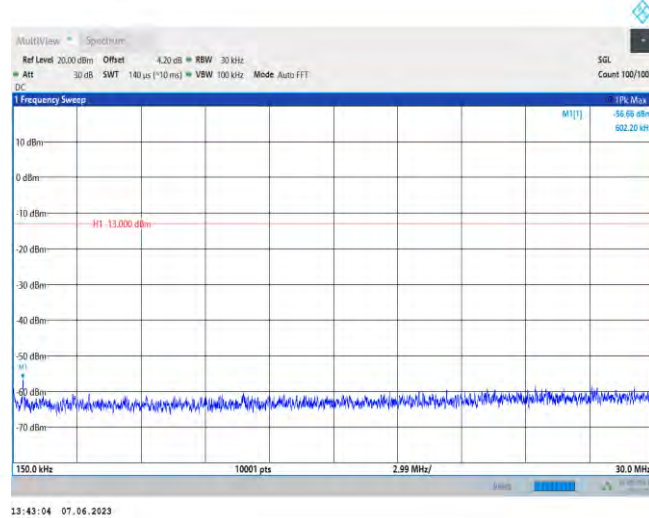
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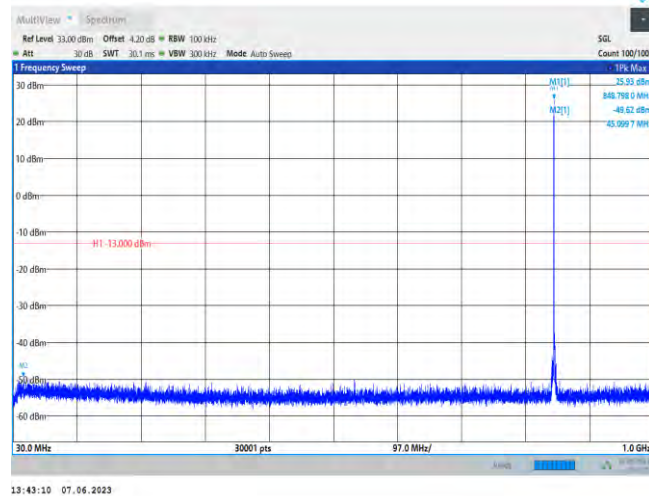
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EGPRS850-128-0.15~30MHz



EGPRS850-128-30~1000MHz



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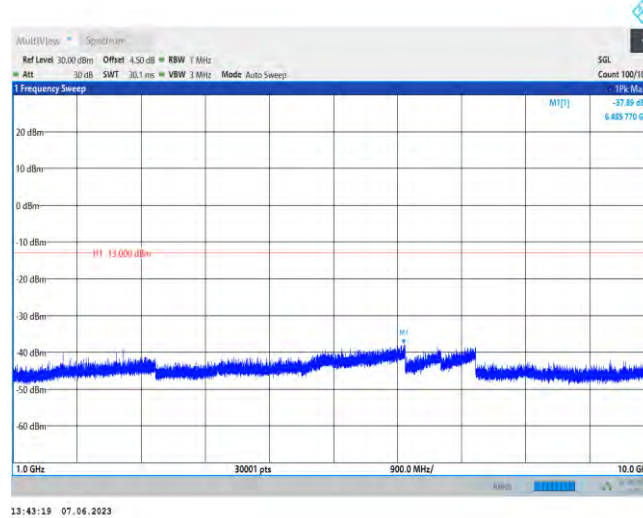
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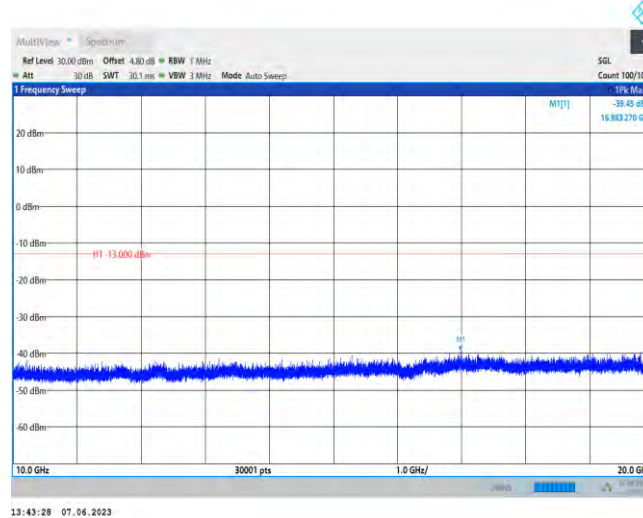
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EGPRS850-128-1000~10000MHz



EGPRS850-128-10000~20000MHz



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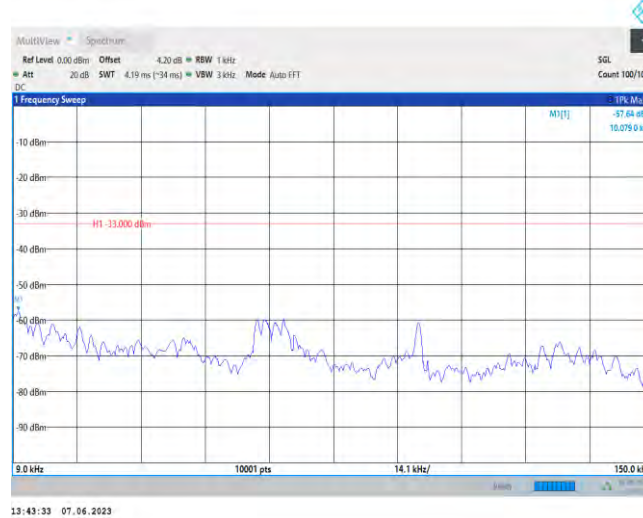
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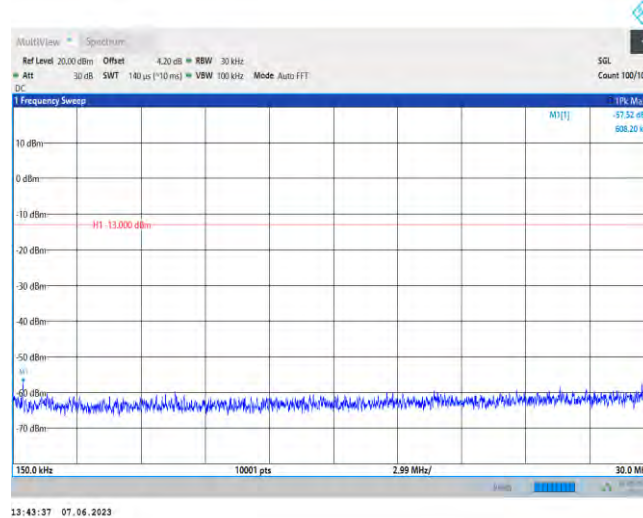
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EGPRS850-190-0.009~0.15MHz



EGPRS850-190-0.15~30MHz



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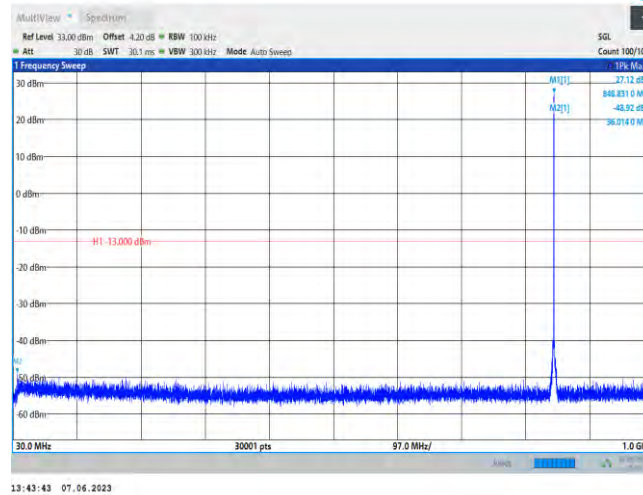
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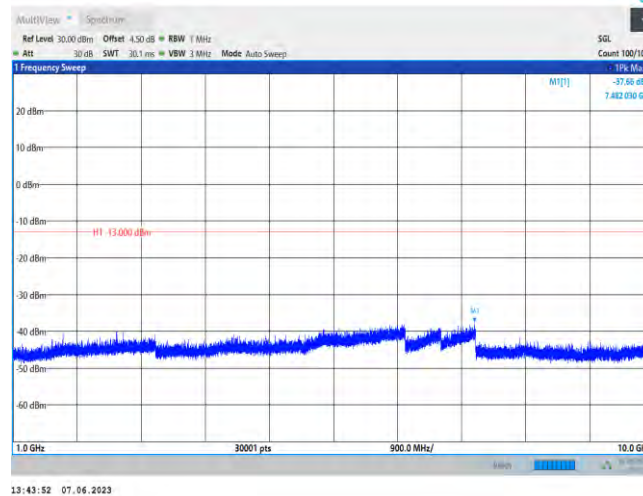
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EGPRS850-190-30~1000MHz



EGPRS850-190-1000~10000MHz



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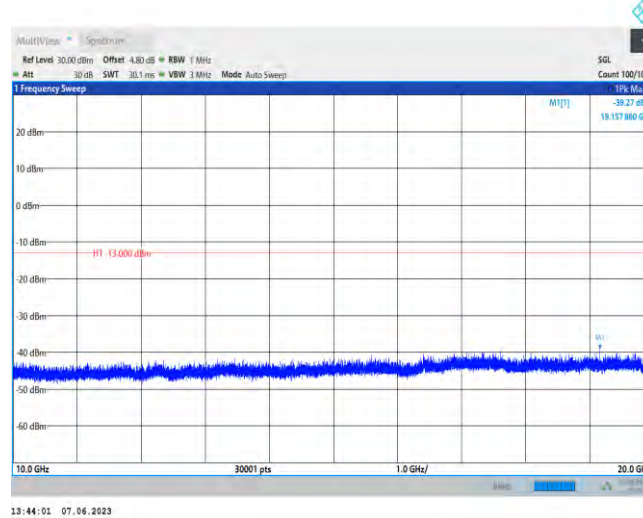
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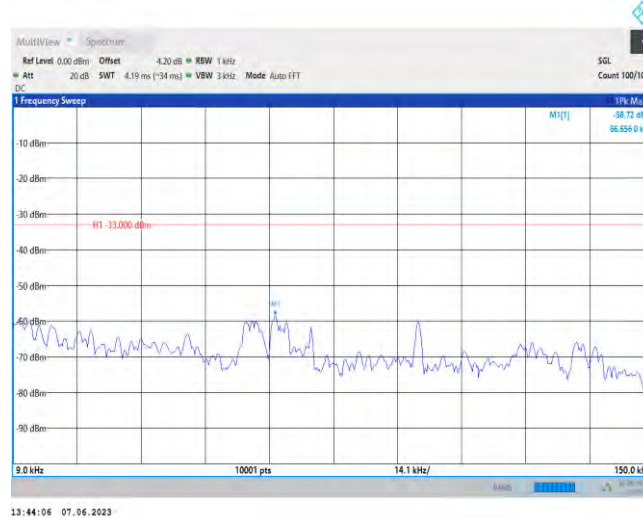
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EGPRS850-190-10000~20000MHz



EGPRS850-251-0.009~0.15MHz



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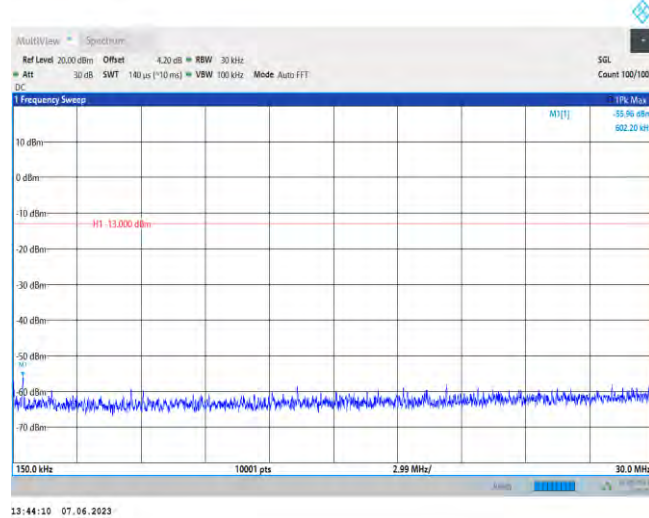
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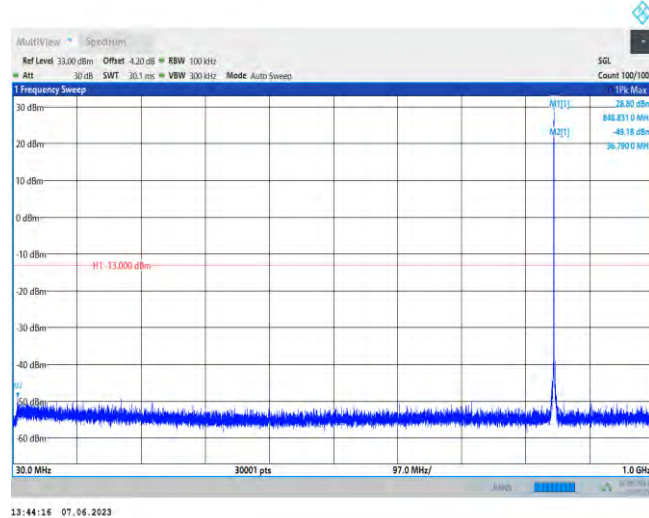
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EGPRS850-251-0.15~30MHz



EGPRS850-251-30~1000MHz



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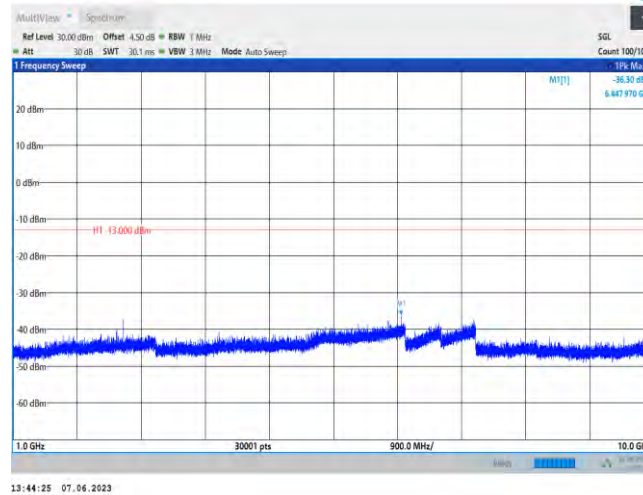
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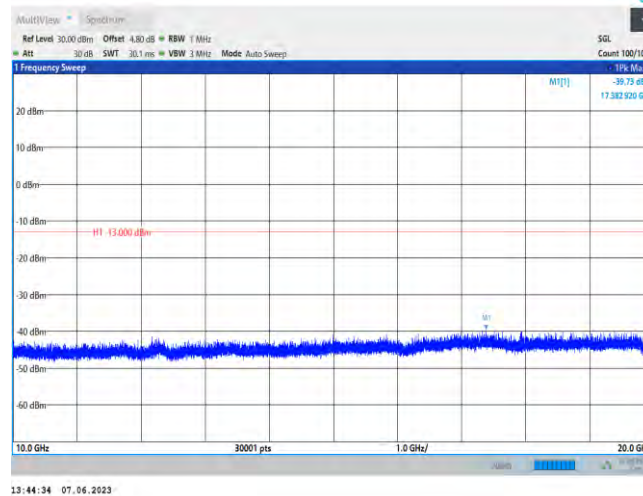
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EGPRS850-251-1000~10000MHz



EGPRS850-251-10000~20000MHz



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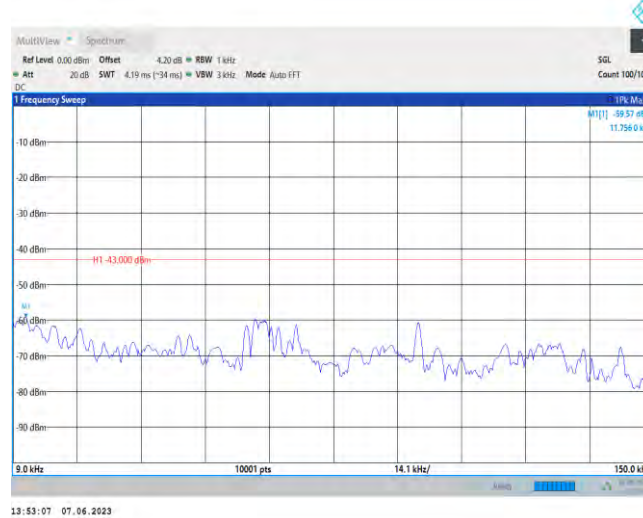
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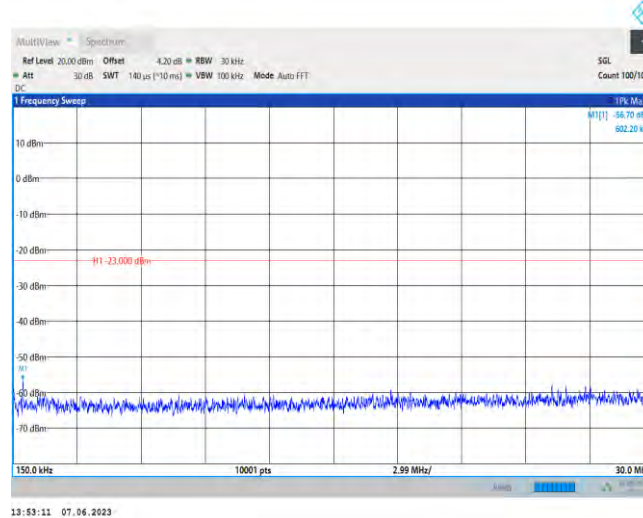
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EGPRS1900-512-0.009~0.15MHz



EGPRS1900-512-0.15~30MHz



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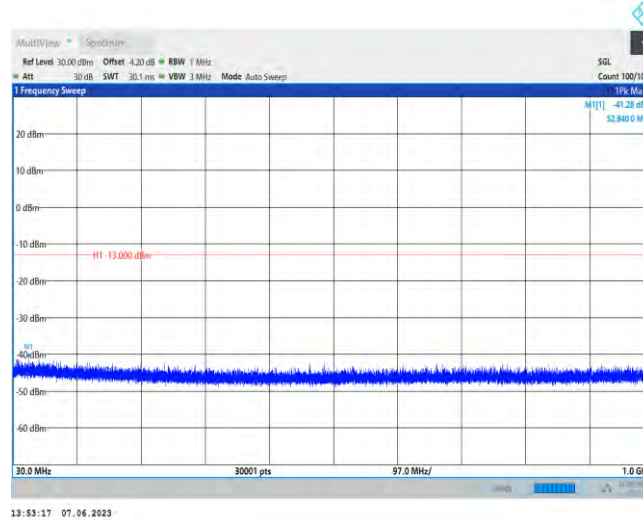
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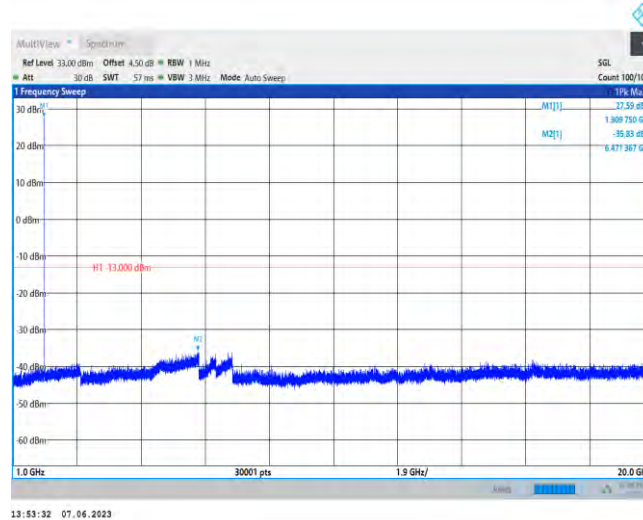
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EGPRS1900-512-30~1000MHz



EGPRS1900-512-1000~20000MHz



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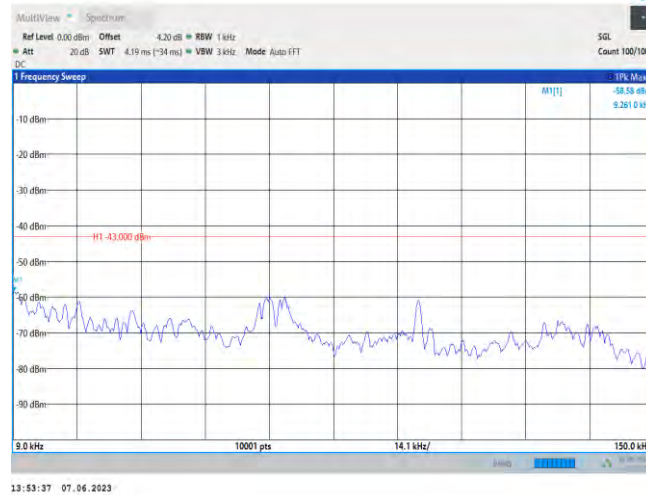
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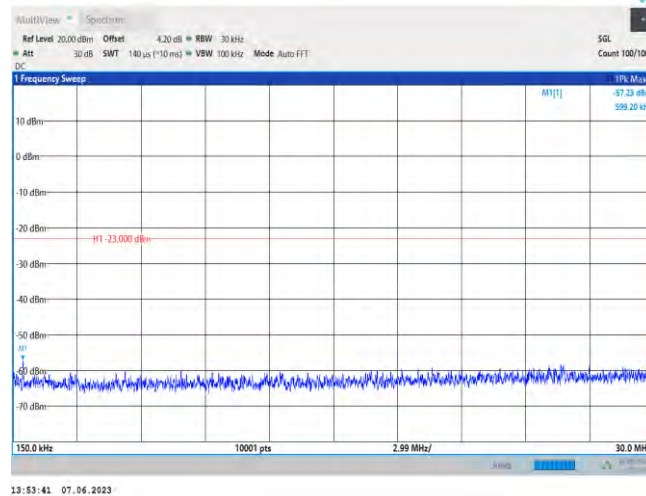
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EGPRS1900-661-0.009~0.15MHz



EGPRS1900-661-0.15~30MHz



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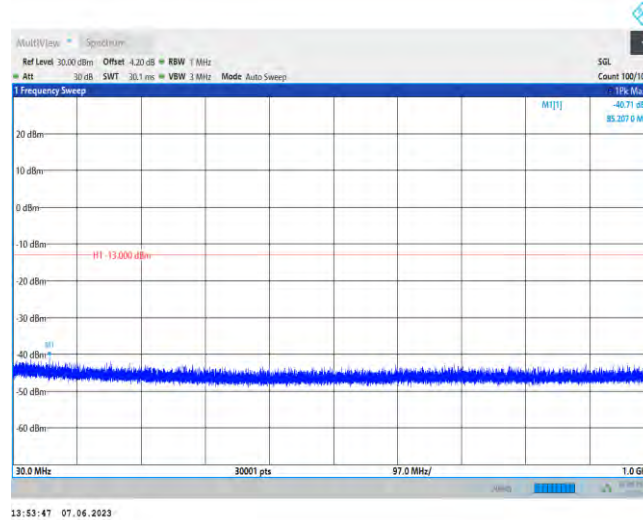
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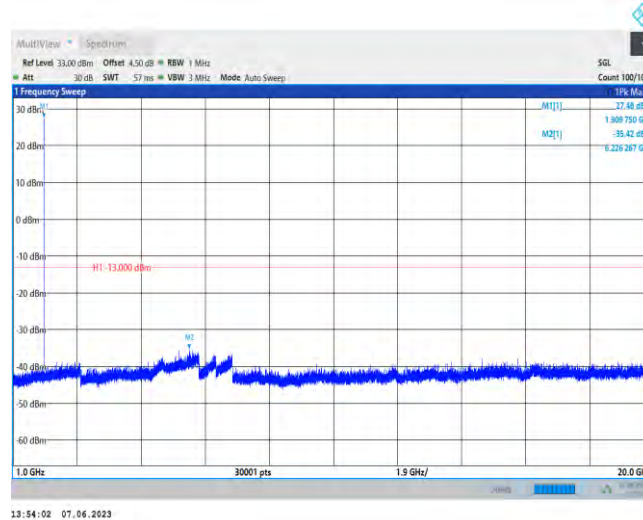
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EGPRS1900-661-30~1000MHz



EGPRS1900-661-1000~20000MHz



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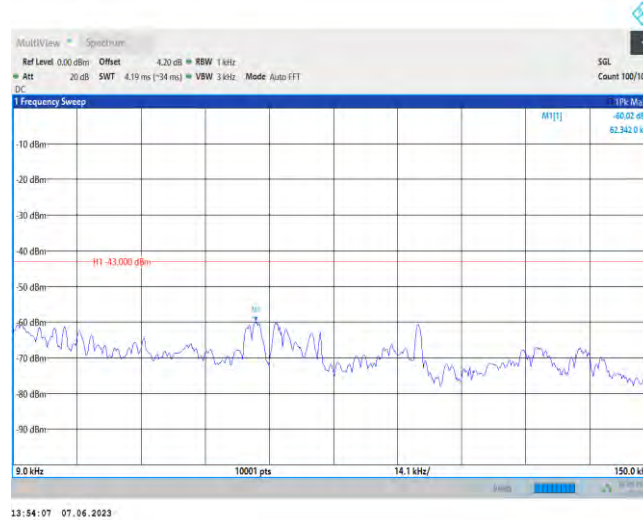
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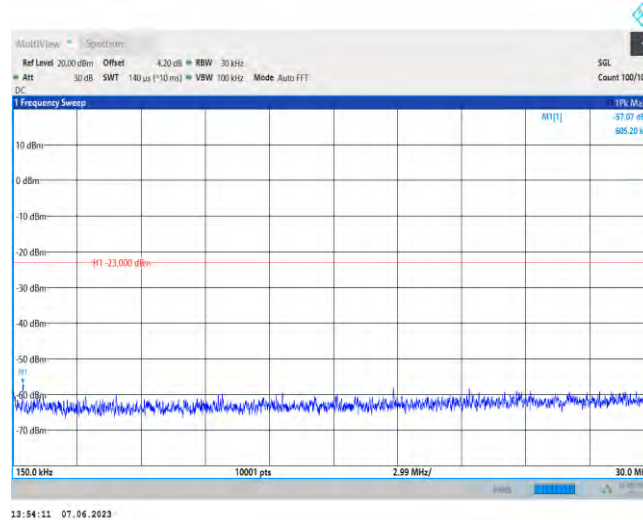
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EGPRS1900-810-0.009~0.15MHz



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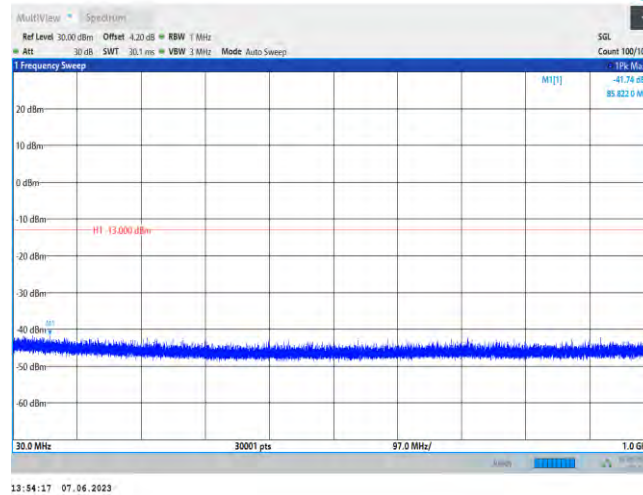
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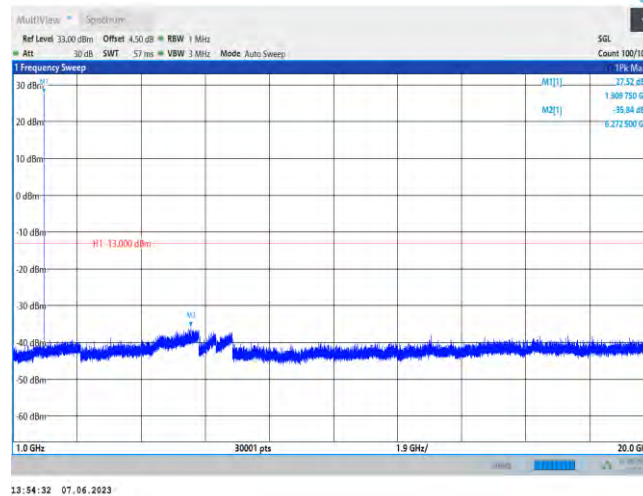
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EGPRS1900-810-30~1000MHz



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Field Strength of Spurious Radiation

Test Band = GSM 850_Ant13

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	1648.4	60.09	-48.38	25.58	-57.98	-13.00	44.98	157	329	Horizontal
2	2472.6	57.17	-46.97	27.85	-57.21	-13.00	44.21	219	315	Horizontal
3	3296.8	44.58	-46.11	29.48	-67.31	-13.00	54.31	238	329	Horizontal
4	4121	42.32	-45.35	30.79	-67.49	-13.00	54.49	175	64	Horizontal
5	4945.2	42.20	-45.09	32.47	-65.68	-13.00	52.68	241	264	Horizontal
6	5769.4	42.04	-43.53	33.46	-63.28	-13.00	50.28	164	99	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4444	53.83	-48.38	25.58	-64.24	-13.00	51.24	185	160	Vertical
2	2472.4444	51.41	-46.97	27.84	-62.98	-13.00	49.98	241	353	Vertical
3	3296.8	45.56	-46.11	29.48	-66.33	-13.00	53.33	196	110	Vertical
4	4121	42.52	-45.35	30.79	-67.29	-13.00	54.29	235	360	Vertical
5	4945.2	42.48	-45.09	32.47	-65.40	-13.00	52.40	177	245	Vertical
6	5769.4	42.21	-43.53	33.46	-63.11	-13.00	50.11	145	62	Vertical



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Test Band = GSM 850_Ant13

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	1672.8889	79.75	-48.32	25.56	-38.26	-13.00	25.26	171	20	Horizontal
2	2509.2	53.34	-46.79	27.93	-60.77	-13.00	47.77	218	345	Horizontal
3	3345.6	43.69	-46.19	29.46	-68.30	-13.00	55.30	156	98	Horizontal
4	4182	41.78	-45.16	30.89	-67.75	-13.00	54.75	204	0	Horizontal
5	5018.4	42.00	-44.93	32.60	-65.59	-13.00	52.59	175	113	Horizontal
6	5854.8	41.93	-43.34	33.74	-62.93	-13.00	49.93	216	357	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	58.72	-48.32	25.56	-59.29	-13.00	46.29	198	344	Vertical
2	2509.2	51.41	-46.79	27.93	-62.70	-13.00	49.70	244	47	Vertical
3	3345.6	45.27	-46.19	29.46	-66.72	-13.00	53.72	176	268	Vertical
4	4182	42.08	-45.16	30.89	-67.45	-13.00	54.45	128	4	Vertical
5	5018.4	42.27	-44.93	32.60	-65.32	-13.00	52.32	176	80	Vertical
6	5854.8	42.50	-43.34	33.74	-62.36	-13.00	49.36	234	284	Vertical



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Test Band = GSM 850_Ant13
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	79.73	-48.25	25.55	-38.23	-13.00	25.23	178	328	Horizontal
2	2546.4	57.03	-46.97	28.06	-57.14	-13.00	44.14	193	282	Horizontal
3	3395.2	43.02	-46.27	29.44	-69.07	-13.00	56.07	245	247	Horizontal
4	4244	41.16	-45.11	30.99	-68.22	-13.00	55.22	284	357	Horizontal
5	5092.8	42.47	-44.62	32.60	-64.81	-13.00	51.81	169	282	Horizontal
6	5941.6	42.24	-43.35	34.01	-62.36	-13.00	49.36	301	173	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	72.32	-48.25	25.55	-45.64	-13.00	32.64	187	359	Vertical
2	2546.4	53.77	-46.97	28.06	-60.40	-13.00	47.40	244	360	Vertical
3	3395.2	43.13	-46.27	29.44	-68.96	-13.00	55.96	182	139	Vertical
4	4244	41.69	-45.11	30.99	-67.69	-13.00	54.69	134	359	Vertical
5	5092.8	42.46	-44.62	32.60	-64.82	-13.00	51.82	249	29	Vertical
6	5941.6	42.74	-43.35	34.01	-61.86	-13.00	48.86	211	360	Vertical



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Test Band = GSM 1900_Ant13
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	45.91	-45.70	29.88	-65.17	-13.00	52.17	158	98	Horizontal
2	5550.6	67.85	-43.87	32.76	-38.52	-13.00	25.52	214	216	Horizontal
3	7400.8	39.66	-41.98	36.44	-61.14	-13.00	48.14	196	249	Horizontal
4	9251	36.30	-38.39	38.57	-58.78	-13.00	45.78	234	114	Horizontal
5	11101.2	35.74	-35.37	39.50	-55.40	-13.00	42.40	175	148	Horizontal
6	12951.4	36.15	-34.89	39.55	-54.45	-13.00	41.45	166	66	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	46.84	-45.70	29.88	-64.24	-13.00	51.24	189	259	Vertical
2	5550.6	57.35	-43.87	32.76	-49.02	-13.00	36.02	256	145	Vertical
3	7400.8	38.82	-41.98	36.44	-61.98	-13.00	48.98	137	176	Vertical
4	9251	34.92	-38.39	38.57	-60.16	-13.00	47.16	188	160	Vertical
5	11101.2	32.03	-35.37	39.50	-59.11	-13.00	46.11	172	129	Vertical
6	12951.4	34.74	-34.89	39.55	-55.86	-13.00	42.86	195	160	Vertical



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Test Band = GSM 1900_Ant13

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	46.04	-45.54	30.03	-64.73	-13.00	51.73	248	212	Horizontal
2	5640	69.85	-43.81	33.05	-36.17	-13.00	23.17	189	229	Horizontal
3	7520	38.49	-41.53	36.54	-61.76	-13.00	48.76	266	164	Horizontal
4	9400	35.07	-38.16	38.56	-59.79	-13.00	46.79	235	229	Horizontal
5	11280	32.99	-35.28	39.32	-58.23	-13.00	45.23	175	196	Horizontal
6	13160	34.83	-34.68	39.70	-55.41	-13.00	42.41	218	294	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	42.06	-45.54	30.03	-68.71	-13.00	55.71	229	233	Vertical
2	5640	55.76	-43.81	33.05	-50.26	-13.00	37.26	184	233	Vertical
3	7520	37.82	-41.53	36.54	-62.43	-13.00	49.43	175	148	Vertical
4	9400	35.11	-38.16	38.56	-59.75	-13.00	46.75	268	98	Vertical
5	11280	30.79	-35.28	39.32	-60.43	-13.00	47.43	179	354	Vertical
6	13160	35.22	-34.68	39.70	-55.02	-13.00	42.02	280	181	Vertical



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Test Band = GSM 1900_Ant13

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	5729.25	67.37	-43.66	33.33	-38.21	-13.00	25.21	148	216	Horizontal
2	3819.6	50.71	-45.44	30.17	-59.82	-13.00	46.82	211	216	Horizontal
3	7639.2	37.74	-41.29	36.78	-62.03	-13.00	49.03	193	360	Horizontal
4	9549	39.22	-38.13	38.55	-55.62	-13.00	42.62	262	149	Horizontal
5	11458.8	32.03	-35.27	39.14	-59.35	-13.00	46.35	135	68	Horizontal
6	13368.6	40.25	-35.13	39.82	-50.32	-13.00	37.32	185	182	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5729.25	47.90	-43.66	33.33	-57.68	-13.00	44.68	259	203	Vertical
2	3819.6	47.82	-45.44	30.17	-62.71	-13.00	49.71	198	218	Vertical
3	7639.2	37.55	-41.29	36.78	-62.22	-13.00	49.22	176	16	Vertical
4	9549	37.98	-38.13	38.55	-56.86	-13.00	43.86	233	167	Vertical
5	11458.8	32.26	-35.27	39.14	-59.12	-13.00	46.12	196	346	Vertical
6	13368.6	39.60	-35.13	39.82	-50.97	-13.00	37.97	245	184	Vertical



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Test Band = GSM 850_Ant31

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	1648.4444	52.25	-48.38	25.58	-65.82	-13.00	52.82	148	358	Horizontal
2	2472.4444	65.08	-46.97	27.84	-49.31	-13.00	36.31	219	3	Horizontal
3	3296.8	44.14	-46.11	29.48	-67.75	-13.00	54.75	238	172	Horizontal
4	4121	43.86	-45.35	30.79	-65.95	-13.00	52.95	194	3	Horizontal
5	4945.2	41.92	-45.09	32.47	-65.96	-13.00	52.96	275	31	Horizontal
6	5769.4	41.68	-43.53	33.46	-63.64	-13.00	50.64	162	63	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2472.4444	62.43	-46.97	27.84	-51.96	-13.00	38.96	128	127	Vertical
2	3279.1111	48.05	-46.14	29.49	-63.87	-13.00	50.87	259	17	Vertical
3	1648.4	59.59	-48.38	25.58	-58.48	-13.00	45.48	233	313	Vertical
4	4121	42.59	-45.35	30.79	-67.22	-13.00	54.22	274	82	Vertical
5	4945.2	41.57	-45.09	32.47	-66.31	-13.00	53.31	165	282	Vertical
6	5769.4	42.21	-43.53	33.46	-63.11	-13.00	50.11	241	190	Vertical



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Test Band = GSM 850_Ant31
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	58.94	-48.32	25.56	-59.07	-13.00	46.07	163	32	Horizontal
2	2509.2	62.69	-46.79	27.93	-51.42	-13.00	38.42	287	359	Horizontal
3	3345.6	43.11	-46.19	29.46	-68.88	-13.00	55.88	209	288	Horizontal
4	4182	42.38	-45.16	30.89	-67.15	-13.00	54.15	146	130	Horizontal
5	5018.4	42.02	-44.93	32.60	-65.57	-13.00	52.57	288	130	Horizontal
6	5854.8	42.45	-43.34	33.74	-62.41	-13.00	49.41	170	112	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	61.70	-48.32	25.56	-56.31	-13.00	43.31	211	108	Vertical
2	2509.2	60.31	-46.79	27.93	-53.80	-13.00	40.80	256	1	Vertical
3	3345.6	43.58	-46.19	29.46	-68.41	-13.00	55.41	239	43	Vertical
4	4182	41.92	-45.16	30.89	-67.61	-13.00	54.61	174	76	Vertical
5	5018.4	42.17	-44.93	32.60	-65.42	-13.00	52.42	144	59	Vertical
6	5854.8	43.67	-43.34	33.74	-61.19	-13.00	48.19	181	202	Vertical



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Test Band = GSM 850_Ant31
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	53.71	-48.25	25.55	-64.25	-13.00	51.25	148	360	Horizontal
2	2546.4	60.65	-46.97	28.06	-53.52	-13.00	40.52	219	233	Horizontal
3	3395.2	44.91	-46.27	29.44	-67.18	-13.00	54.18	233	169	Horizontal
4	4244	42.60	-45.11	30.99	-66.78	-13.00	53.78	172	217	Horizontal
5	5092.8	43.20	-44.62	32.60	-64.08	-13.00	51.08	209	312	Horizontal
6	5941.6	42.16	-43.35	34.01	-62.44	-13.00	49.44	186	139	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	57.41	-48.25	25.55	-60.55	-13.00	47.55	218	59	Vertical
2	2546.4	60.77	-46.97	28.06	-53.40	-13.00	40.40	144	312	Vertical
3	3395.2	43.23	-46.27	29.44	-68.86	-13.00	55.86	275	249	Vertical
4	4244	42.57	-45.11	30.99	-66.81	-13.00	53.81	196	0	Vertical
5	5092.8	42.51	-44.62	32.60	-64.77	-13.00	51.77	231	345	Vertical
6	5941.6	42.91	-43.35	34.01	-61.69	-13.00	48.69	142	170	Vertical



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Test Band = GSM 1900_Ant31**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	58.39	-45.70	29.88	-52.69	-13.00	39.69	144	280	Horizontal
2	5550.6	56.48	-43.87	32.76	-49.89	-13.00	36.89	287	247	Horizontal
3	7400.8	41.46	-41.98	36.44	-59.34	-13.00	46.34	195	83	Horizontal
4	9251	35.17	-38.39	38.57	-59.91	-13.00	46.91	233	164	Horizontal
5	11101.2	34.00	-35.37	39.50	-57.14	-13.00	44.14	284	230	Horizontal
6	12951.4	35.22	-34.89	39.55	-55.38	-13.00	42.38	176	212	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	57.61	-45.70	29.88	-53.47	-13.00	40.47	248	0	Vertical
2	5550.6	58.16	-43.87	32.76	-48.21	-13.00	35.21	271	245	Vertical
3	7400.8	41.79	-41.98	36.44	-59.01	-13.00	46.01	195	148	Vertical
4	9251	34.09	-38.39	38.57	-60.99	-13.00	47.99	238	261	Vertical
5	11101.2	38.58	-35.37	39.50	-52.56	-13.00	39.56	147	180	Vertical
6	12951.4	39.32	-34.89	39.55	-51.28	-13.00	38.28	185	114	Vertical



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Test Band = GSM 1900_Ant31
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	3759.75	56.41	-45.54	30.02	-54.37	-13.00	41.37	216	227	Horizontal
2	5640	57.04	-43.81	33.05	-48.98	-13.00	35.98	135	211	Horizontal
3	7520	38.23	-41.53	36.54	-62.02	-13.00	49.02	298	0	Horizontal
4	9400	36.76	-38.16	38.56	-58.10	-13.00	45.10	172	108	Horizontal
5	11280	32.64	-35.28	39.32	-58.58	-13.00	45.58	140	277	Horizontal
6	13160	33.25	-34.68	39.70	-56.99	-13.00	43.99	216	125	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3759.75	60.43	-45.54	30.02	-50.35	-13.00	37.35	259	142	Vertical
2	5640	61.23	-43.81	33.05	-44.79	-13.00	31.79	287	176	Vertical
3	7520	38.12	-41.53	36.54	-62.13	-13.00	49.13	146	310	Vertical
4	9400	35.54	-38.16	38.56	-59.32	-13.00	46.32	203	279	Vertical
5	11280	31.52	-35.28	39.32	-59.70	-13.00	46.70	129	279	Vertical
6	13160	34.57	-34.68	39.70	-55.67	-13.00	42.67	168	210	Vertical



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Test Band = GSM 1900_Ant31
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	53.69	-45.44	30.17	-56.84	-13.00	43.84	246	211	Horizontal
2	5729.5	44.32	-43.65	33.34	-61.26	-13.00	48.26	135	294	Horizontal
3	7639.2	38.08	-41.29	36.78	-61.69	-13.00	48.69	284	211	Horizontal
4	9549	37.85	-38.13	38.55	-56.99	-13.00	43.99	169	108	Horizontal
5	11458.8	32.11	-35.27	39.14	-59.27	-13.00	46.27	281	13	Horizontal
6	13368.6	39.08	-35.13	39.82	-51.49	-13.00	38.49	206	211	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	62.66	-45.44	30.17	-47.87	-13.00	34.87	194	98	Vertical
2	5729.5	46.07	-43.65	33.34	-59.51	-13.00	46.51	162	1	Vertical
3	7639.2	37.23	-41.29	36.78	-62.54	-13.00	49.54	239	47	Vertical
4	9549	36.91	-38.13	38.55	-57.93	-13.00	44.93	178	214	Vertical
5	11458.8	32.17	-35.27	39.14	-59.21	-13.00	46.21	146	247	Vertical
6	13368.6	38.48	-35.13	39.82	-52.09	-13.00	39.09	298	129	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) - 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	2.29	0.002737	±2.5	PASS
GSM850	190	VN	NT	1.26	0.001506	±2.5	PASS
GSM850	190	VH	NT	-0.10	-0.000120	±2.5	PASS
EGPRS850	190	VL	NT	16.01	0.019137	±2.5	PASS
EGPRS850	190	VN	NT	15.66	0.018719	±2.5	PASS
EGPRS850	190	VH	NT	17.31	0.020691	±2.5	PASS

Voltage						
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	VL	NT	0.45	0.000239	PASS
GSM1900	661	VN	NT	1.32	0.000702	PASS
GSM1900	661	VH	NT	1.81	0.000963	PASS
EGPRS1900	661	VL	NT	11.24	0.005979	PASS
EGPRS1900	661	VN	NT	14.92	0.007936	PASS
EGPRS1900	661	VH	NT	15.30	0.008138	PASS



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Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	3.33	0.003980	±2.5	PASS
GSM850	190	NV	-20	6.39	0.007638	±2.5	PASS
GSM850	190	NV	-10	-0.36	-0.000430	±2.5	PASS
GSM850	190	NV	0	2.13	0.002546	±2.5	PASS
GSM850	190	NV	10	5.00	0.005977	±2.5	PASS
GSM850	190	NV	20	2.71	0.003239	±2.5	PASS
GSM850	190	NV	30	2.42	0.002893	±2.5	PASS
GSM850	190	NV	40	1.16	0.001387	±2.5	PASS
GSM850	190	NV	50	0.32	0.000383	±2.5	PASS
EGPRS850	190	NV	-30	16.37	0.019567	±2.5	PASS
EGPRS850	190	NV	-20	15.08	0.018025	±2.5	PASS
EGPRS850	190	NV	-10	15.63	0.018683	±2.5	PASS
EGPRS850	190	NV	0	16.85	0.020141	±2.5	PASS
EGPRS850	190	NV	10	16.27	0.019448	±2.5	PASS
EGPRS850	190	NV	20	16.85	0.020141	±2.5	PASS
EGPRS850	190	NV	30	15.79	0.018874	±2.5	PASS
EGPRS850	190	NV	40	16.01	0.019137	±2.5	PASS
EGPRS850	190	NV	50	16.59	0.019830	±2.5	PASS



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Temperature						
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	NV	-30	1.26	0.000670	PASS
GSM1900	661	NV	-20	-1.13	-0.000601	PASS
GSM1900	661	NV	-10	-1.36	-0.000723	PASS
GSM1900	661	NV	0	2.68	0.001426	PASS
GSM1900	661	NV	10	-5.59	-0.002973	PASS
GSM1900	661	NV	20	3.55	0.001888	PASS
GSM1900	661	NV	30	2.87	0.001527	PASS
GSM1900	661	NV	40	-1.03	-0.000548	PASS
GSM1900	661	NV	50	0.61	0.000324	PASS
EGPRS1900	661	NV	-30	15.72	0.008362	PASS
EGPRS1900	661	NV	-20	14.66	0.007798	PASS
EGPRS1900	661	NV	-10	12.75	0.006782	PASS
EGPRS1900	661	NV	0	12.69	0.006750	PASS
EGPRS1900	661	NV	10	15.21	0.008090	PASS
EGPRS1900	661	NV	20	12.82	0.006819	PASS
EGPRS1900	661	NV	30	11.98	0.006372	PASS
EGPRS1900	661	NV	40	12.62	0.006713	PASS
EGPRS1900	661	NV	50	14.88	0.007915	PASS

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