



# Appendix B.1

## GSM 850&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	32.58	23.63	38.45	PASS
GSM850	190	32.62	23.67	38.45	PASS
GSM850	251	32.65	23.70	38.45	PASS

Band	Channel	Slot	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	27.43	18.48	38.45	PASS
EGPRS850	128	2	25.06	16.11	38.45	PASS
EGPRS850	128	3	22.90	13.95	38.45	PASS
EGPRS850	128	4	21.05	12.10	38.45	PASS
EGPRS850	190	1	27.55	18.60	38.45	PASS
EGPRS850	190	2	25.23	16.28	38.45	PASS
EGPRS850	190	3	22.96	14.01	38.45	PASS
EGPRS850	190	4	21.19	12.24	38.45	PASS
EGPRS850	251	1	27.64	18.69	38.45	PASS
EGPRS850	251	2	25.35	16.40	38.45	PASS
EGPRS850	251	3	23.01	14.06	38.45	PASS
EGPRS850	251	4	21.26	12.31	38.45	PASS



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**Ant31:**

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	29.10	27.90	33.00	PASS
GSM1900	661	29.40	28.20	33.00	PASS
GSM1900	810	29.41	28.21	33.00	PASS

Band	Channel	Slot	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	25.44	24.24	33.00	PASS
EGPRS1900	512	2	23.26	22.06	33.00	PASS
EGPRS1900	512	3	21.13	19.93	33.00	PASS
EGPRS1900	512	4	19.48	18.28	33.00	PASS
EGPRS1900	661	1	25.52	24.32	33.00	PASS
EGPRS1900	661	2	23.39	22.19	33.00	PASS
EGPRS1900	661	3	21.22	20.02	33.00	PASS
EGPRS1900	661	4	19.52	18.32	33.00	PASS
EGPRS1900	810	1	25.44	24.24	33.00	PASS
EGPRS1900	810	2	23.32	22.12	33.00	PASS
EGPRS1900	810	3	21.13	19.93	33.00	PASS
EGPRS1900	810	4	19.48	18.28	33.00	PASS





## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	9.74	13	PASS
GSM850	190	8.9	13	PASS
GSM850	251	8.9	13	PASS
GSM1900	512	8.9	13	PASS
GSM1900	661	8.87	13	PASS
GSM1900	810	8.9	13	PASS
EGPRS850	128	6.38	13	PASS
EGPRS850	190	12.09	13	PASS
EGPRS850	251	11.86	13	PASS
EGPRS1900	512	7.22	13	PASS
EGPRS1900	661	11.71	13	PASS
EGPRS1900	810	12.29	13	PASS

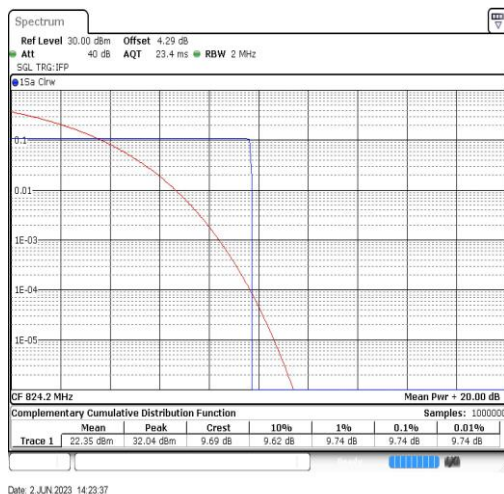


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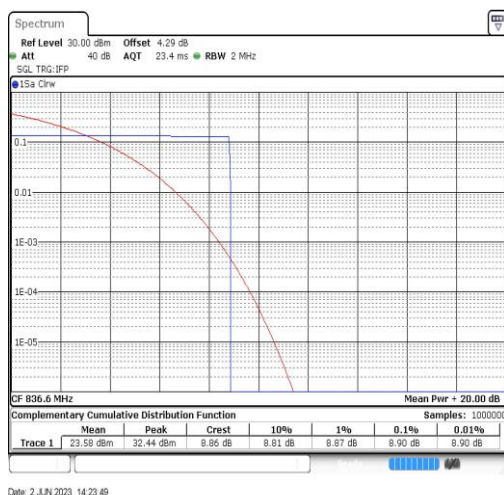
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### Test Graphs

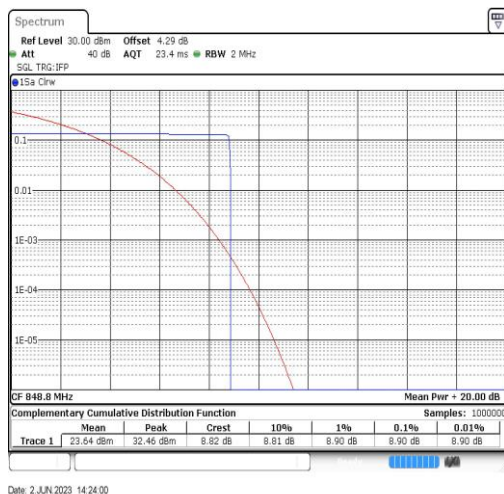


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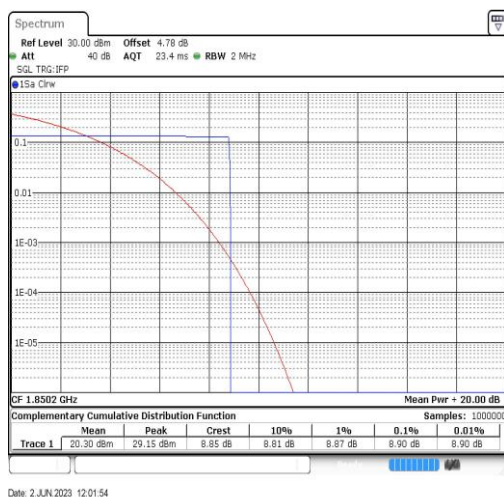


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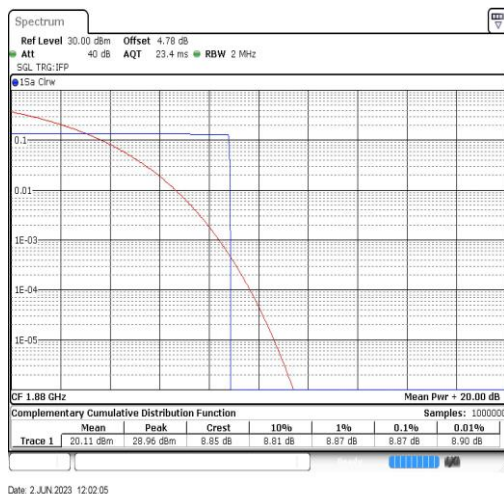




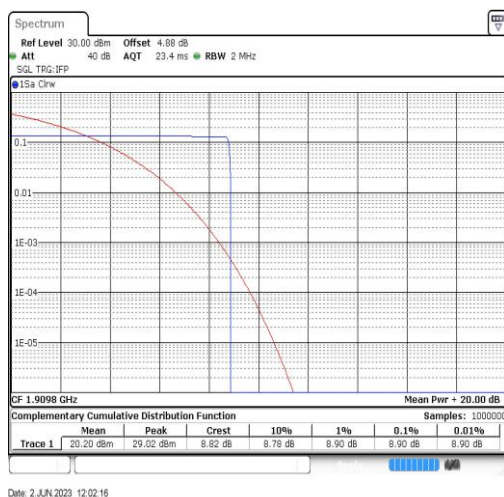
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GSM1900-512-0



GSM1900-661-0



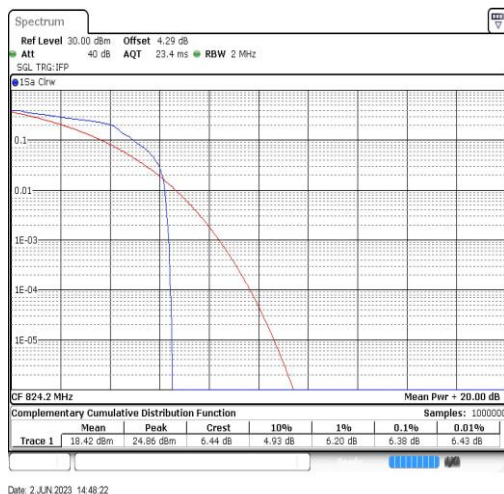
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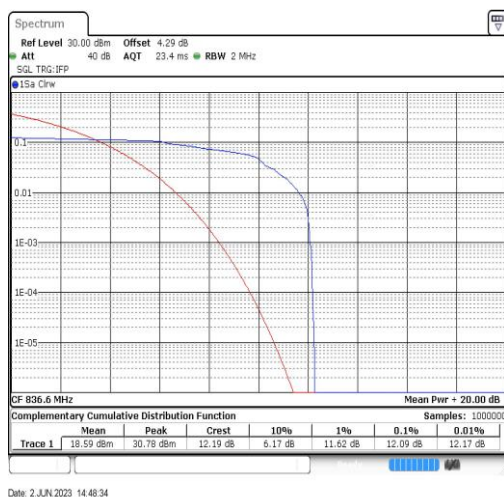
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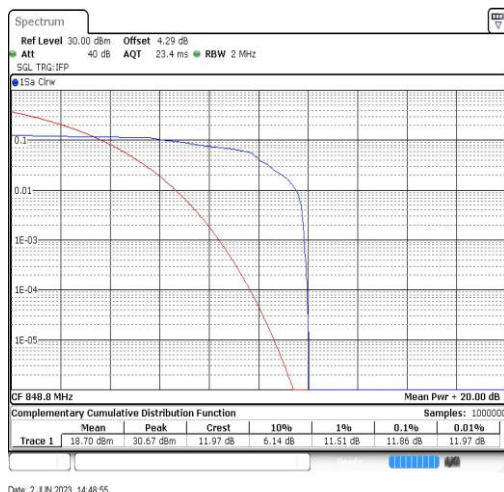
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EGPRS850-128-8

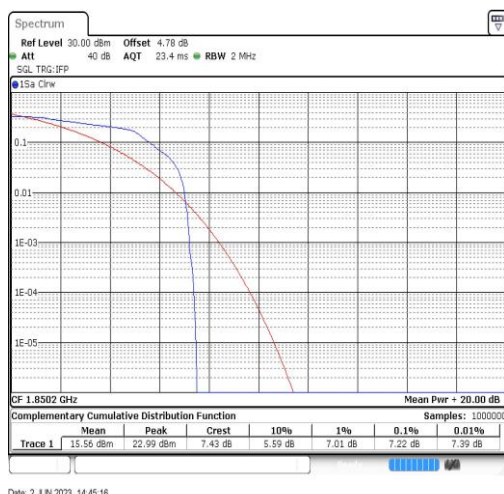


EGPRS850-190-8



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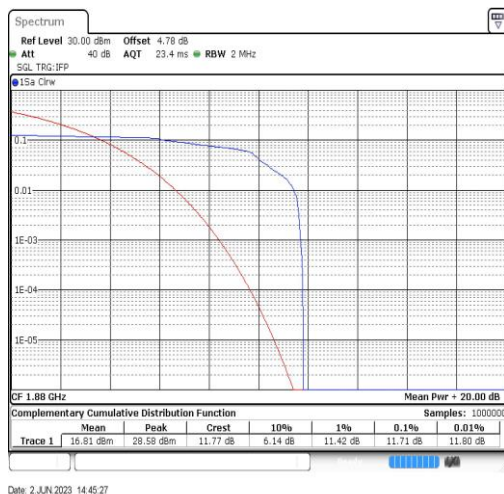


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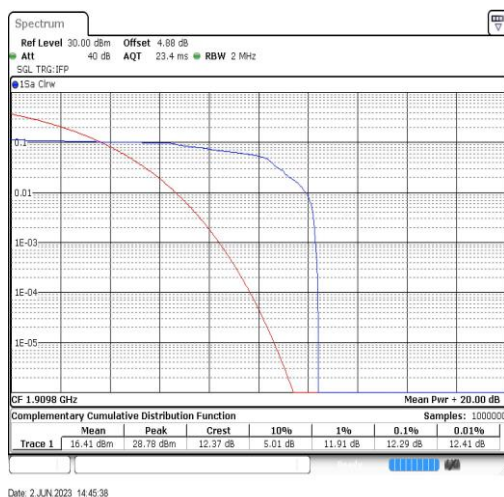
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EGPRS1900-661-2



EGPRS1900-810-2



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## Modulation Characteristics

### Test Result

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

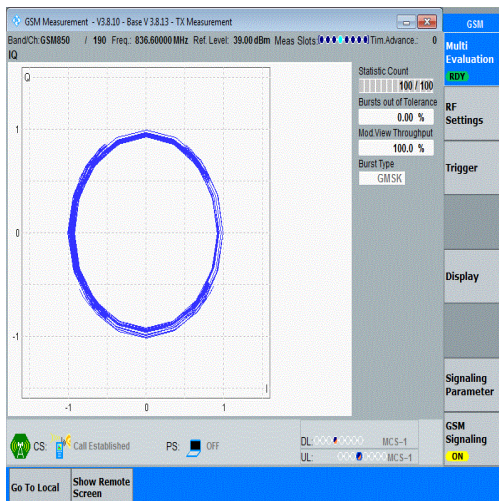


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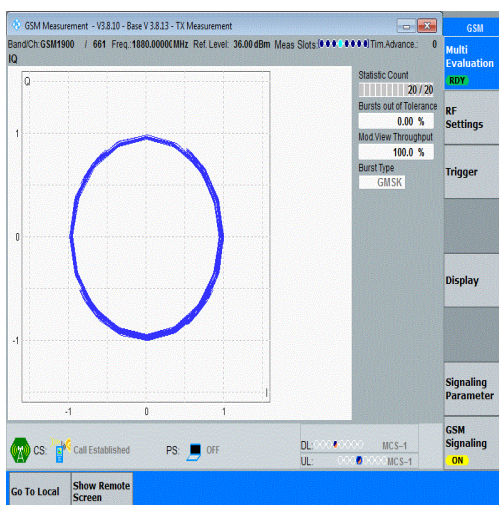
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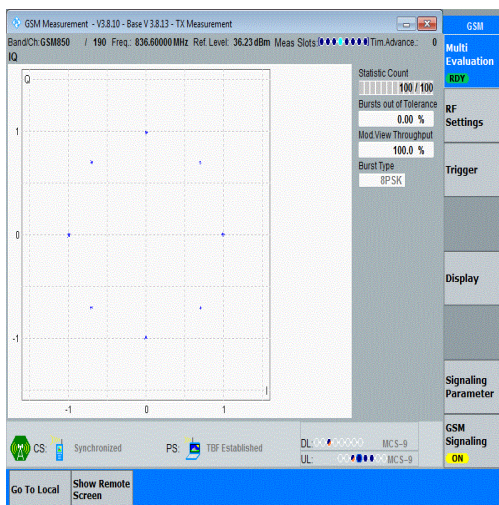
### Test Graphs



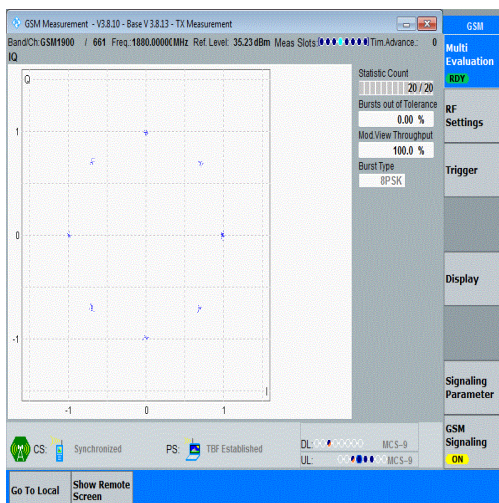
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GSM1900-661-0



EGPRS850-190-8



EGPRS1900-661-2



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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	0.32	---	PASS
GSM850	190	0.242	0.33	---	PASS
GSM850	251	0.243	0.32	---	PASS
GSM1900	512	0.242	0.32	---	PASS
GSM1900	661	0.242	0.32	---	PASS
GSM1900	810	0.243	0.32	---	PASS
EGPRS850	128	0.248	0.32	---	PASS
EGPRS850	190	0.245	0.32	---	PASS
EGPRS850	251	0.244	0.32	---	PASS
EGPRS1900	512	0.248	0.32	---	PASS
EGPRS1900	661	0.246	0.32	---	PASS
EGPRS1900	810	0.246	0.32	---	PASS

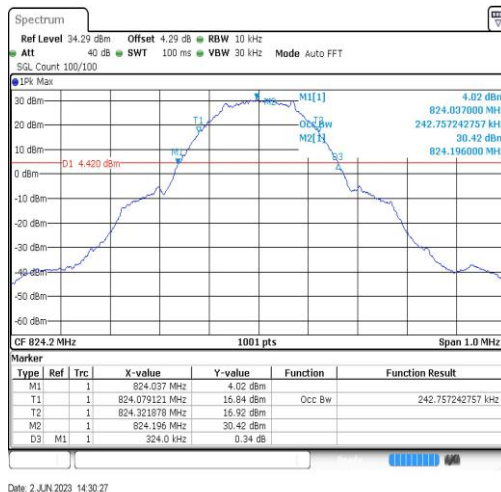


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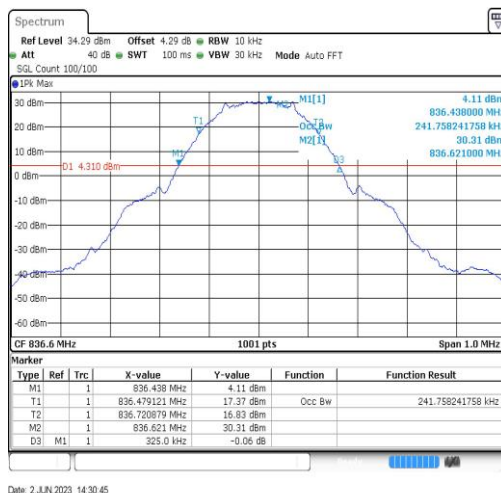
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## Test Graphs

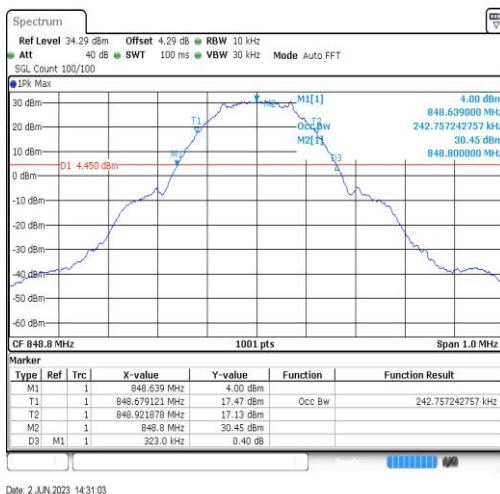


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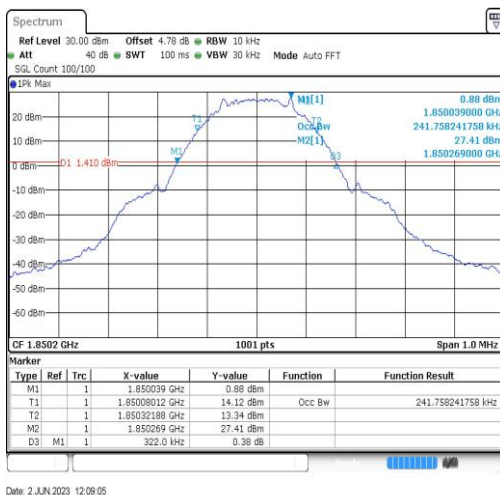


GSM850-190-5





GSM850-251-5



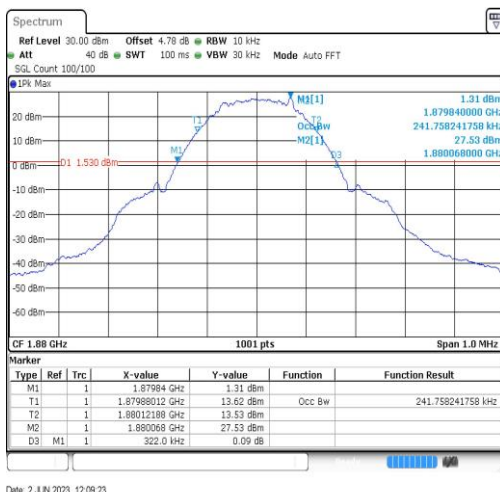
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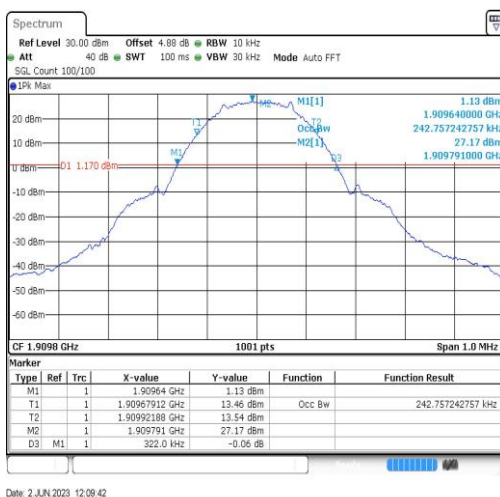
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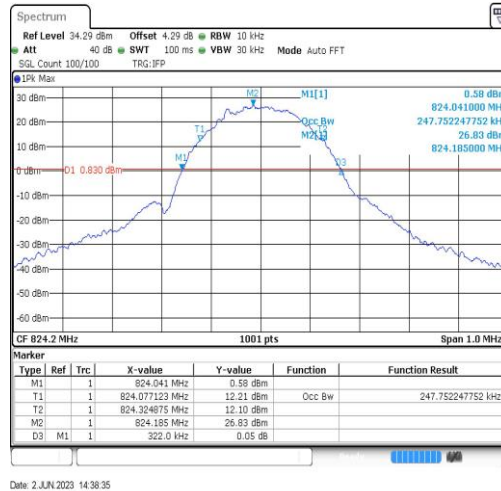


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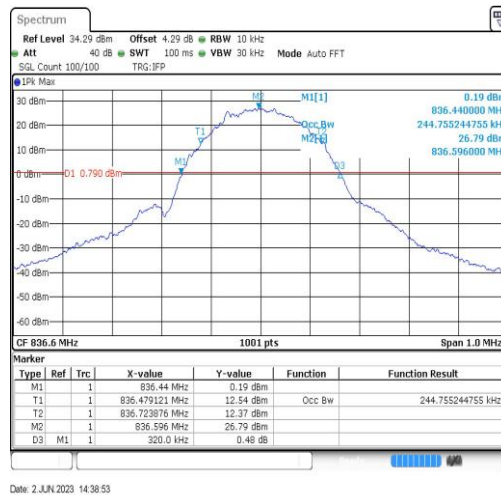


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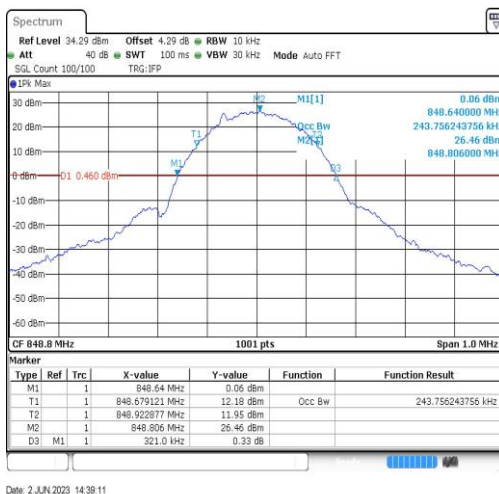


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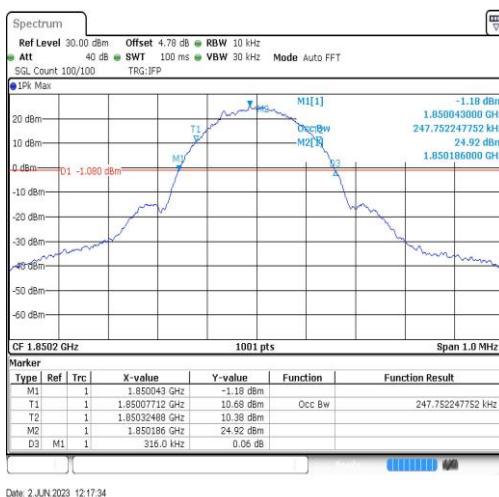
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Date: 2 JUN 2023 14:38:11

## EGPRS850-251-8



Date: 2 JUN 2023 12:17:34

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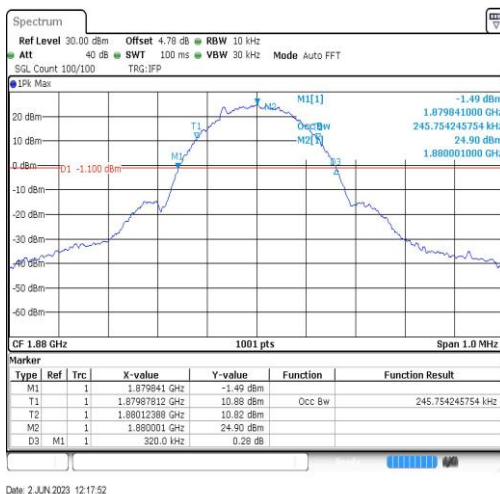


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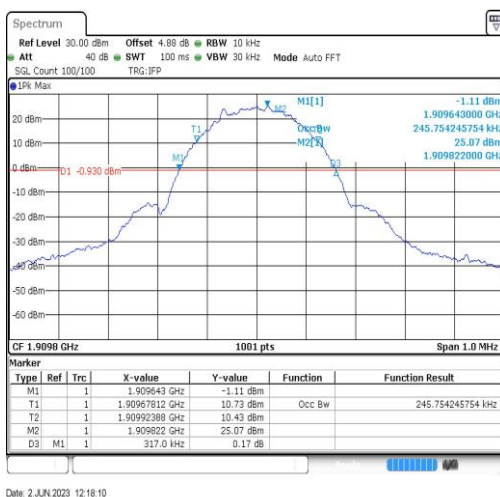
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### EGPRS1900-661-2



### EGPRS1900-810-2



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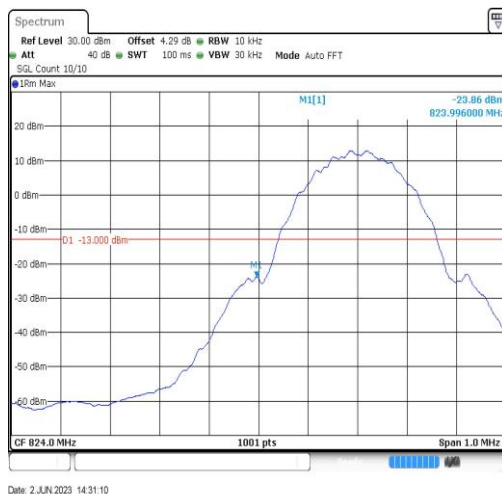
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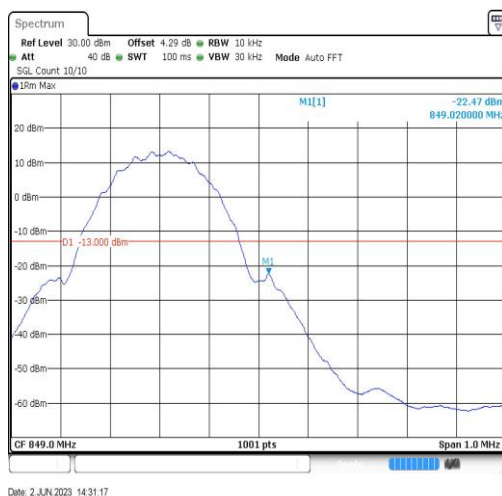


## Band Edge

## Test Graphs



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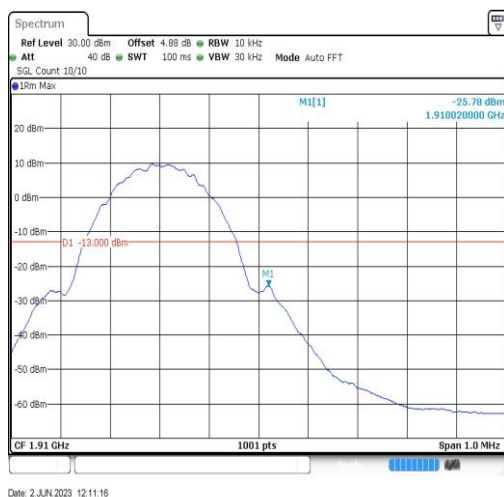


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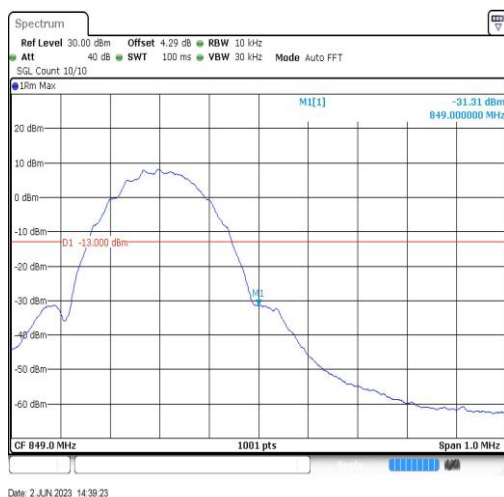


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EGPRS850-128-8-823.97



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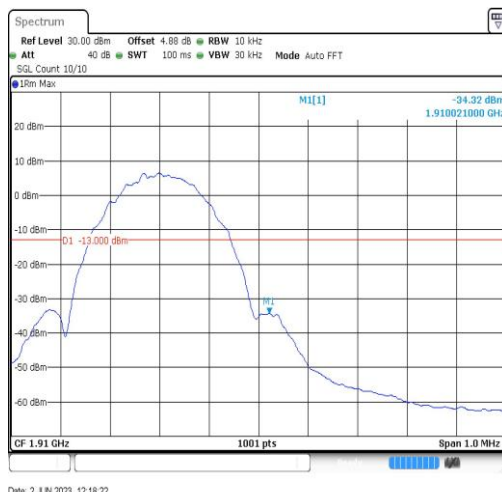
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EGPRS1900-512-2-1849.97



EGPRS1900-810-2-1910.02



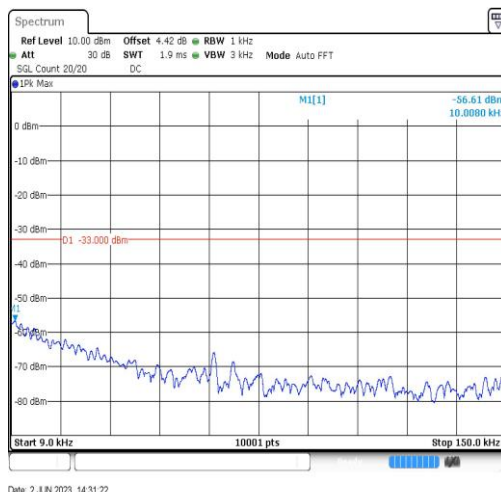
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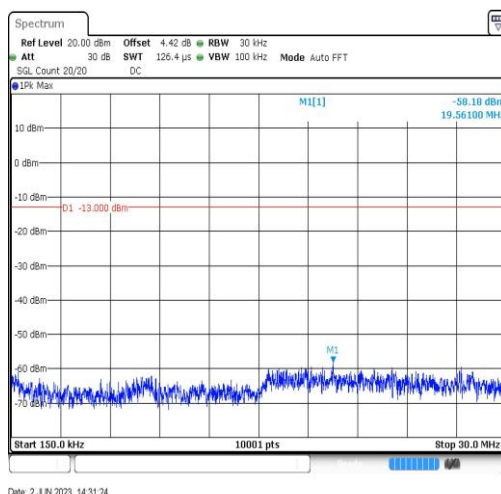
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### Conducted Spurious Emission

#### Test Graphs



GSM850-128-5-0.009~0.15MHz-0.01



GSM850-128-5-0.15~30MHz-19.56

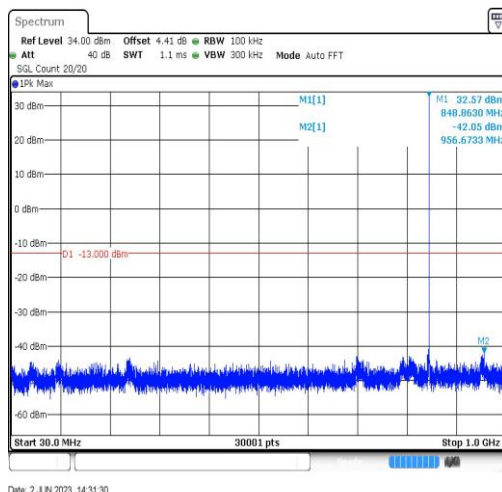


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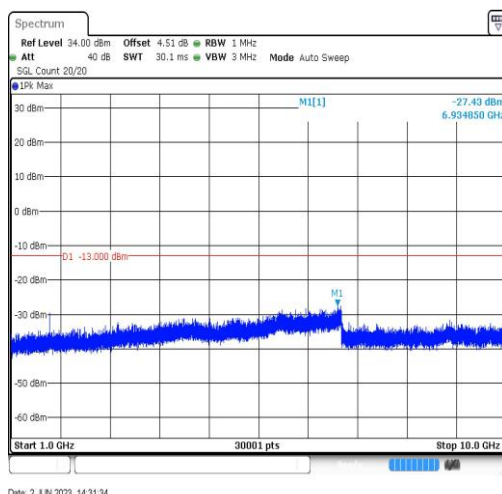
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Date: 2 JUN 2023 14:31:30

GSM850-128-5-30~1000MHz-956.67



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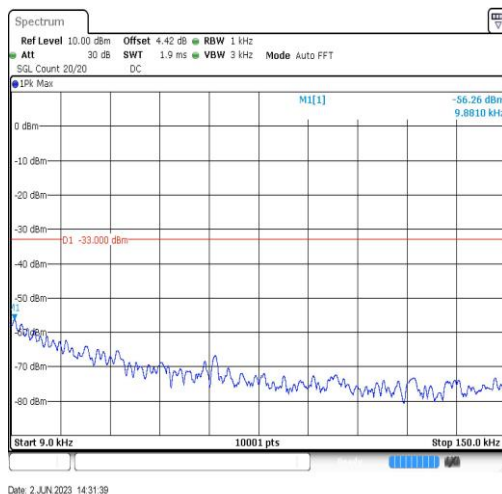


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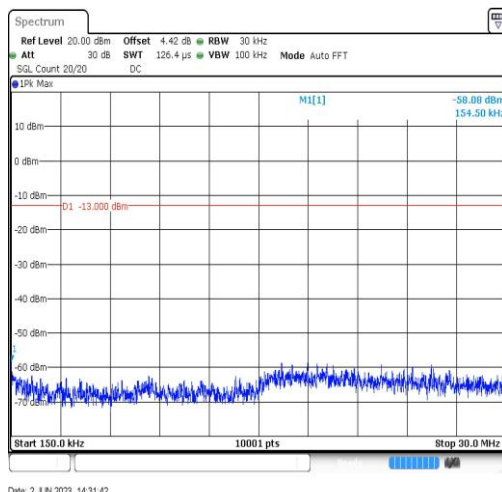
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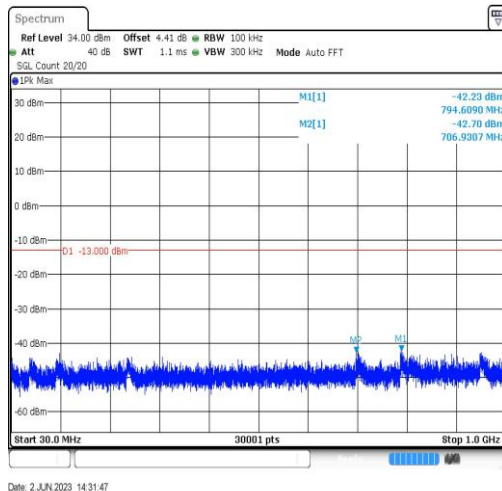
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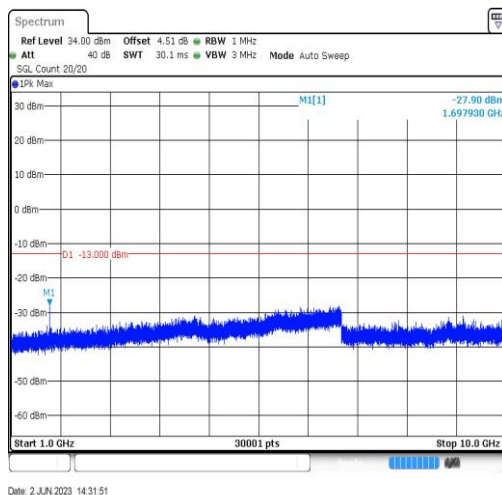
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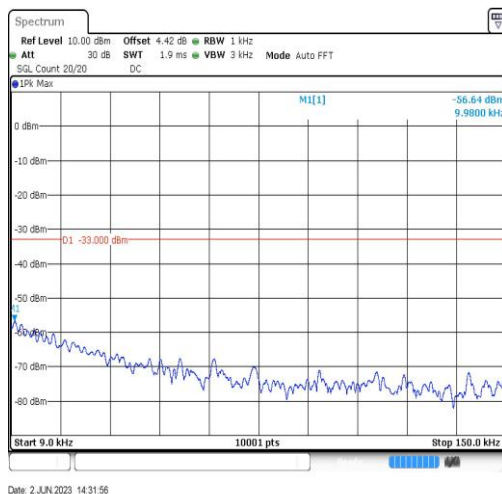
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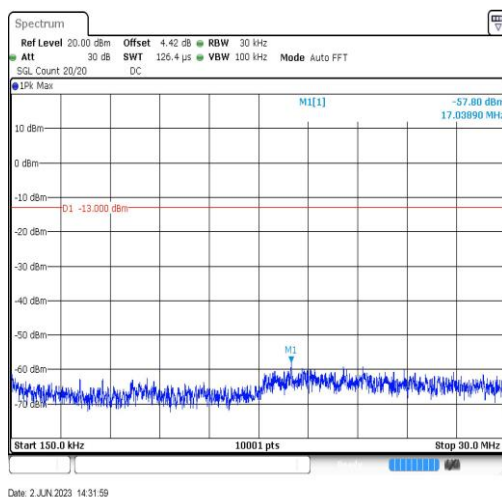
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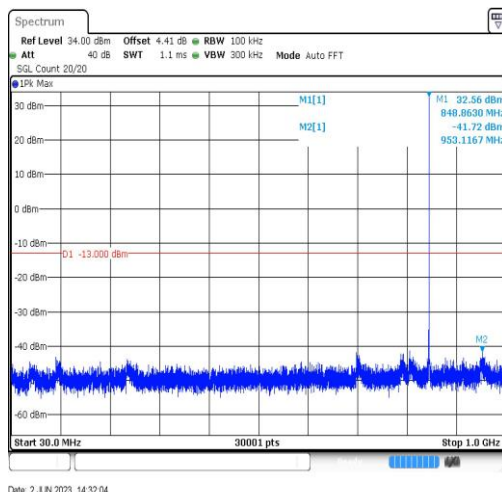


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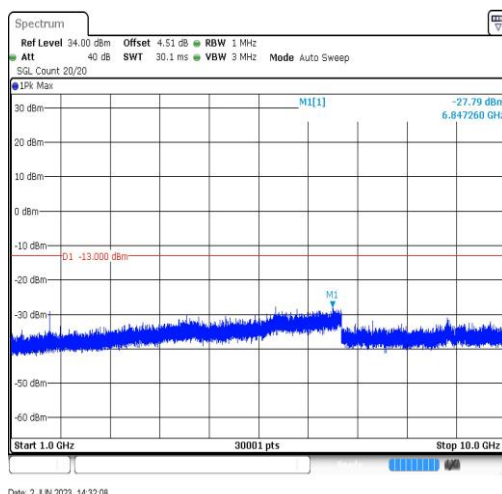
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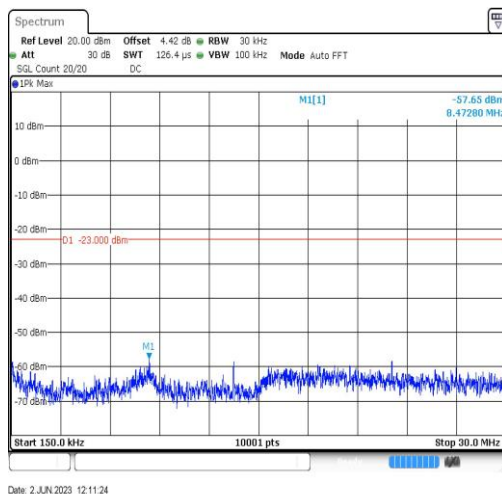


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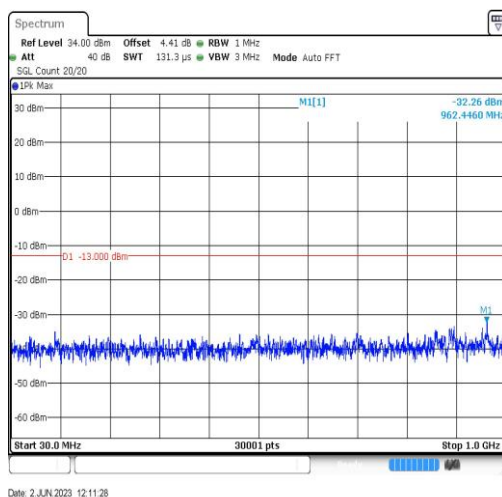
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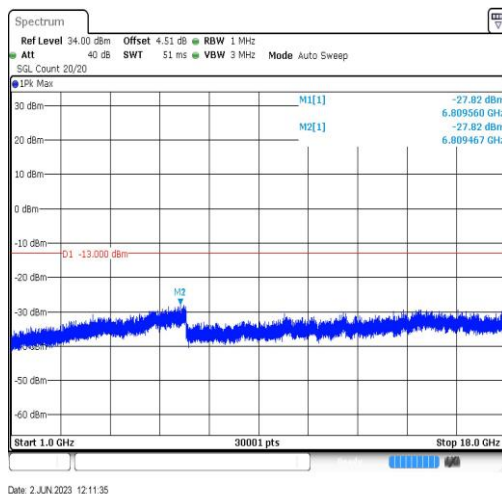


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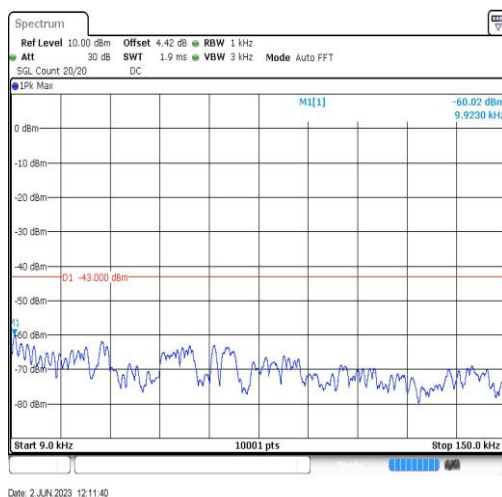
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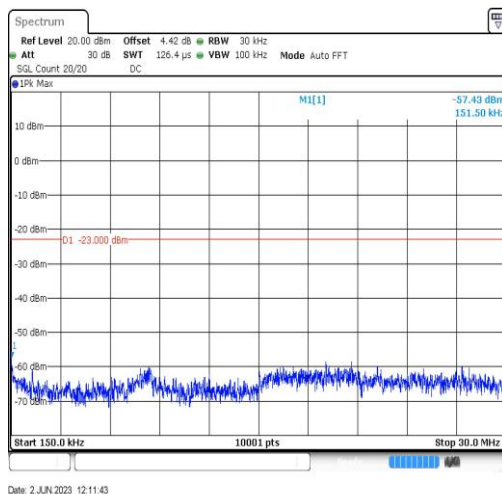


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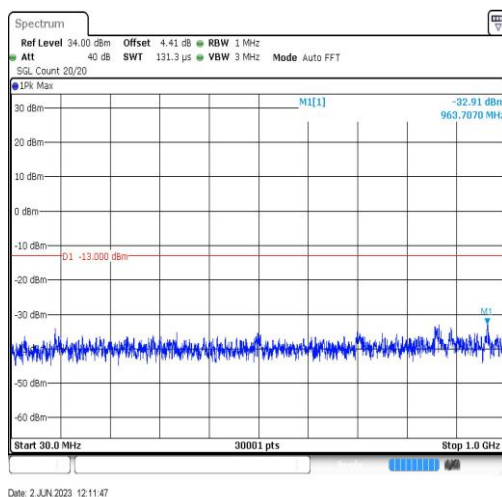


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GSM1900-661-0-0.15~30MHz-0.15



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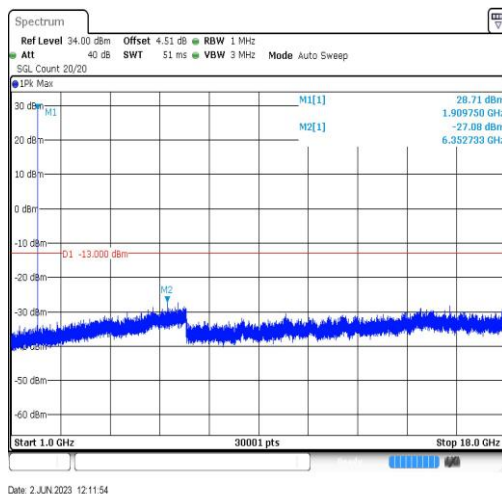


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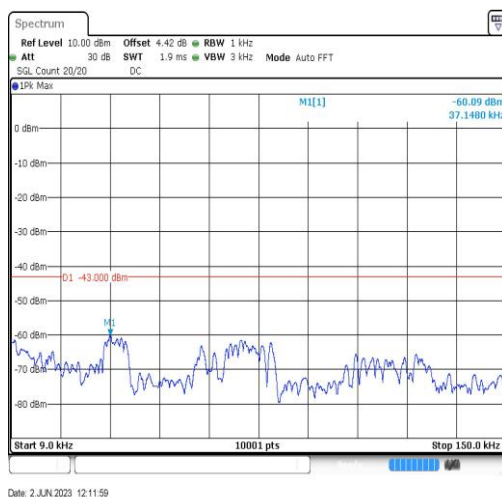
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GSM1900-661-0-1000~18000MHz-6352.73



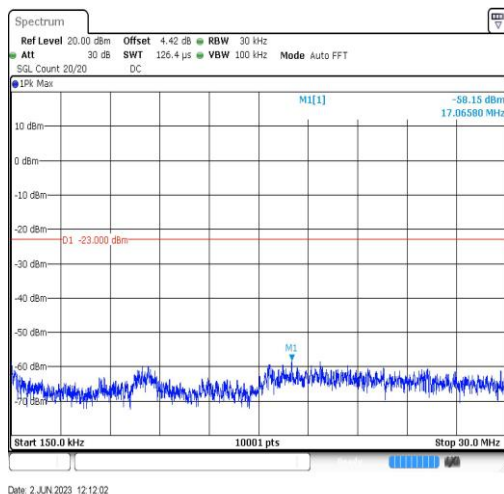
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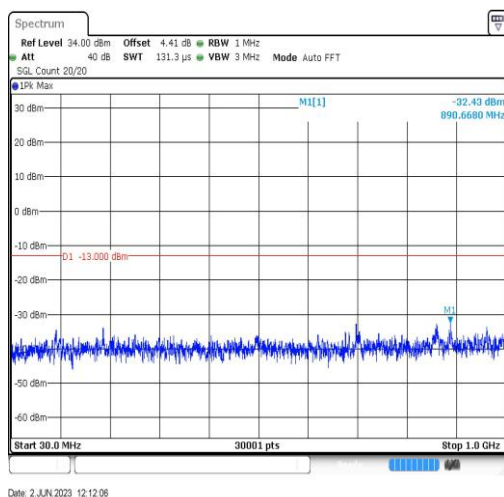
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GSM1900-810-0-0.15~30MHz-17.07



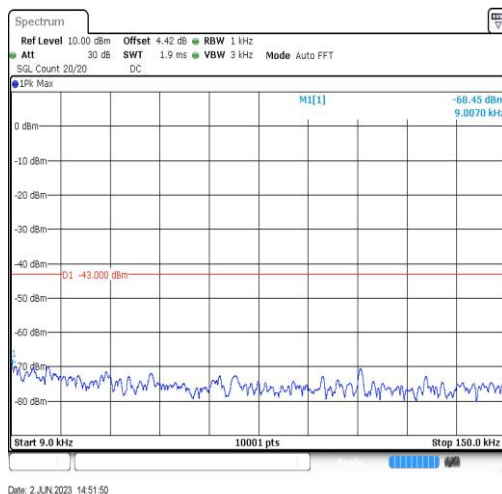
GSM1900-810-0-30~1000MHz-890.67



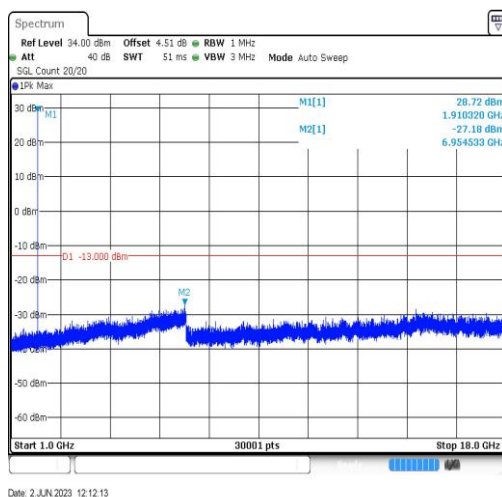
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GSM1900-512-0-0.009~0.15MHz-0.01



GSM1900-810-0-1000~18000MHz-6954.53

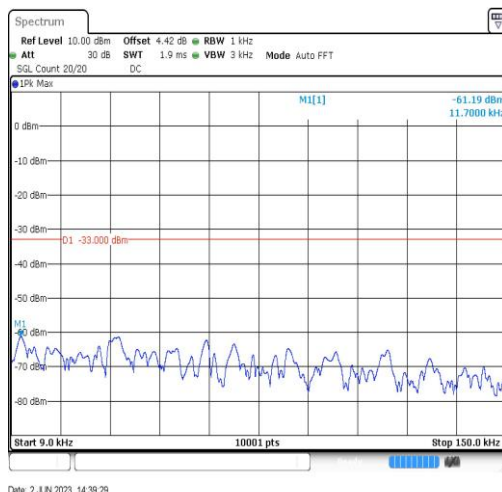


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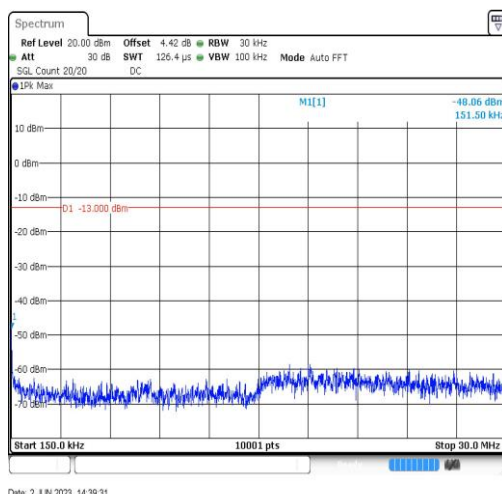
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EGPRS850-128-8-0.009~0.15MHz-0.01



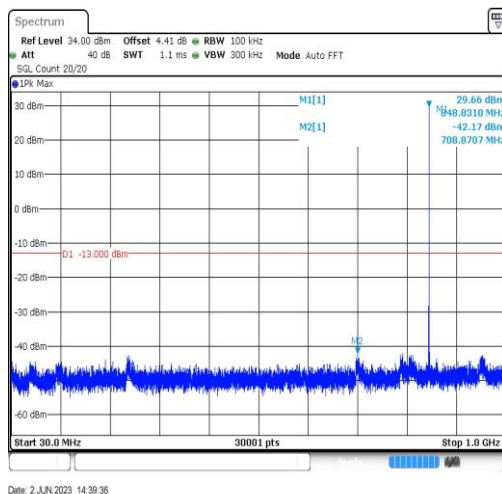
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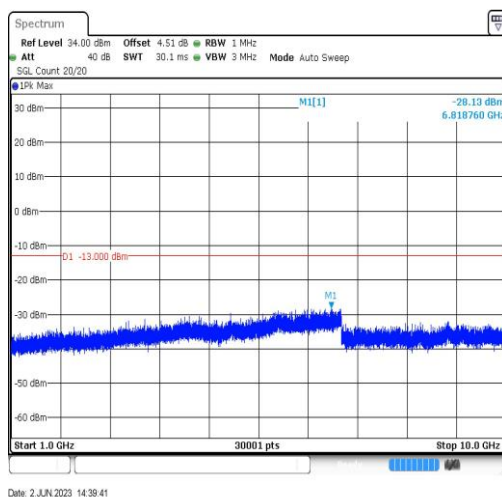
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EGPRS850-128-8-30~1000MHz-708.87



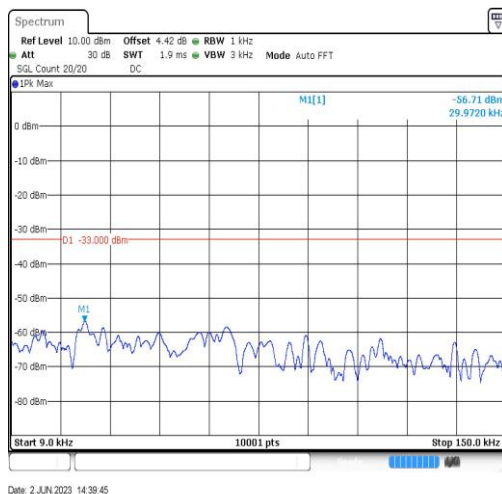
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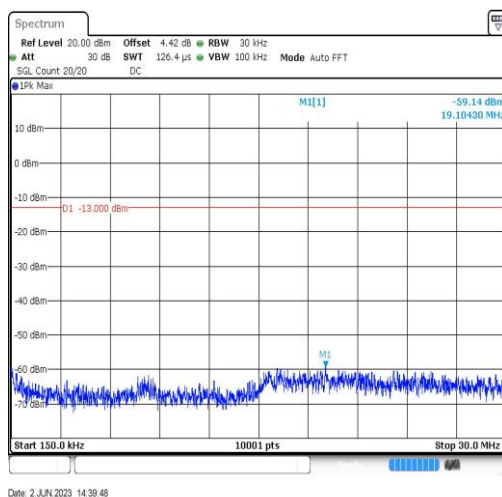
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EGPRS850-190-8-0.009~0.15MHz-0.03



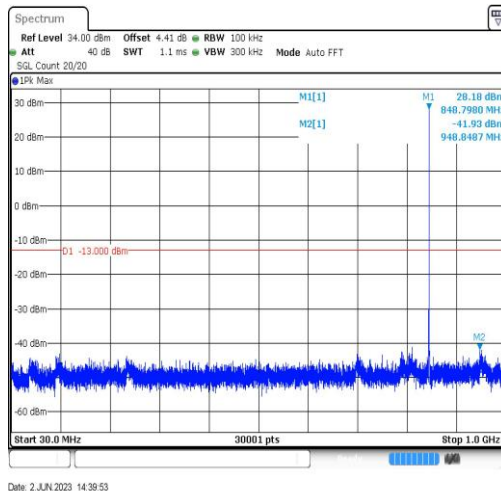
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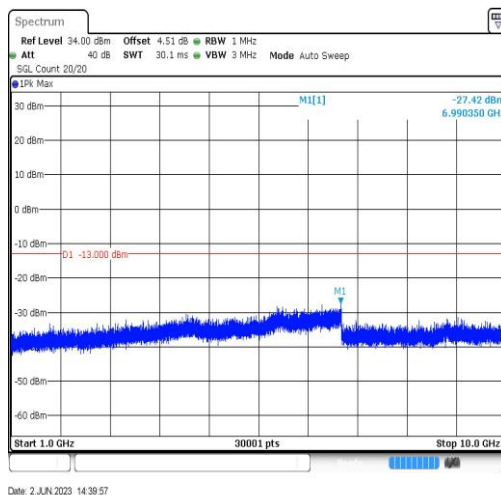
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EGPRS850-190-8-30~1000MHz-948.85



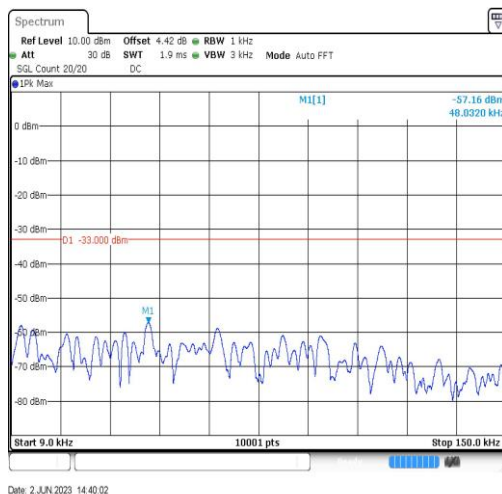
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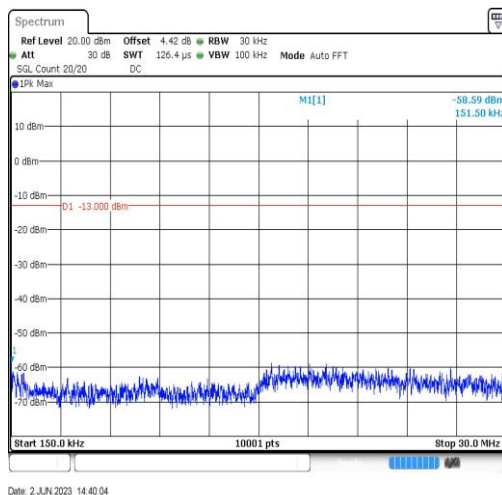
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EGPRS850-251-8-0.009~0.15MHz-0.05



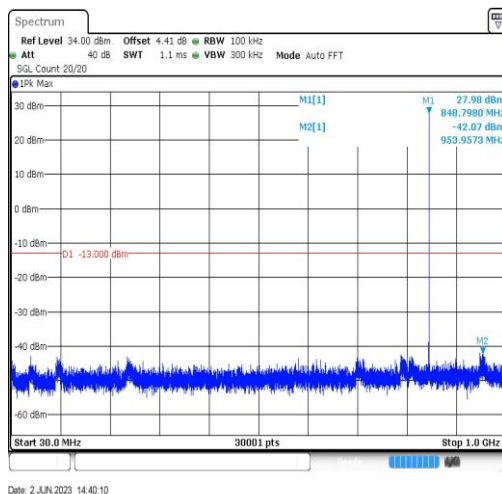
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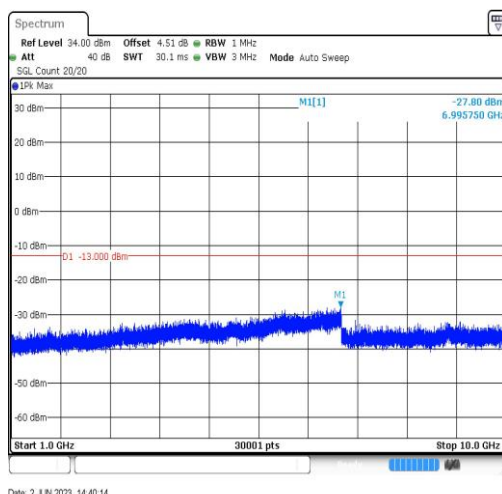
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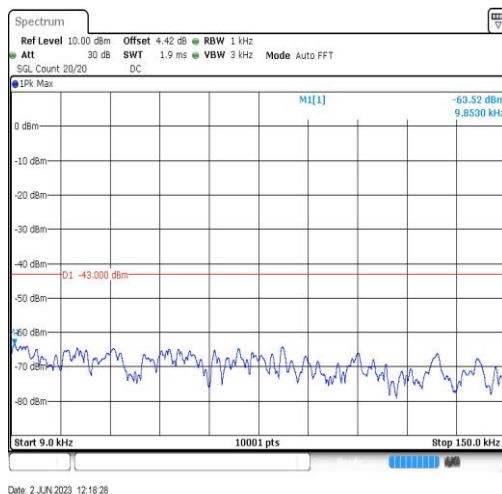


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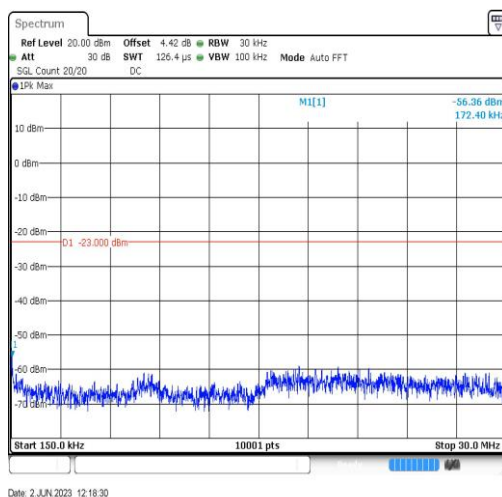


EGPRS850-251-8-1000~10000MHz-6995.75





EGPRS1900-512-2-0.009~0.15MHz-0.01



EGPRS1900-512-2-0.15~30MHz-0.17

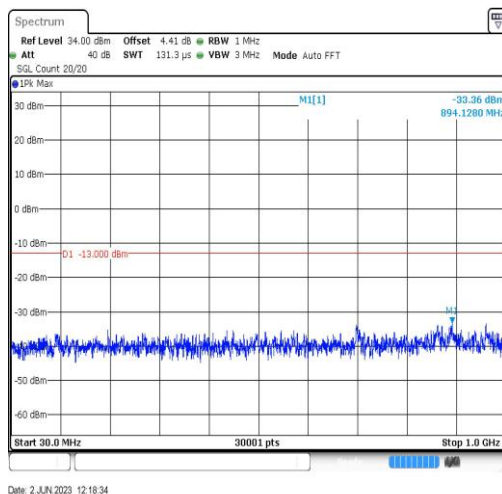


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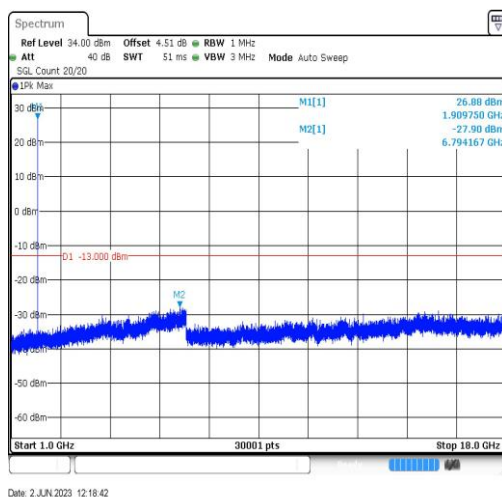
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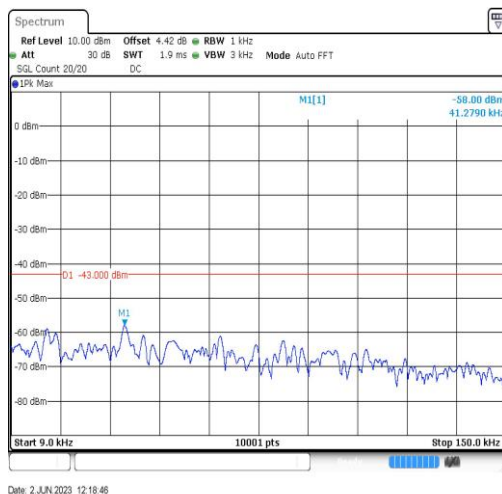


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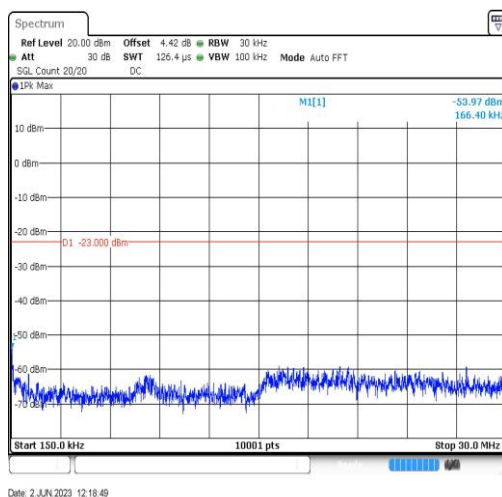


EGPRS1900-512-2-1000~18000MHz-6794.17





EGPRS1900-661-2-0.009~0.15MHz-0.04



EGPRS1900-661-2-0.15~30MHz-0.17

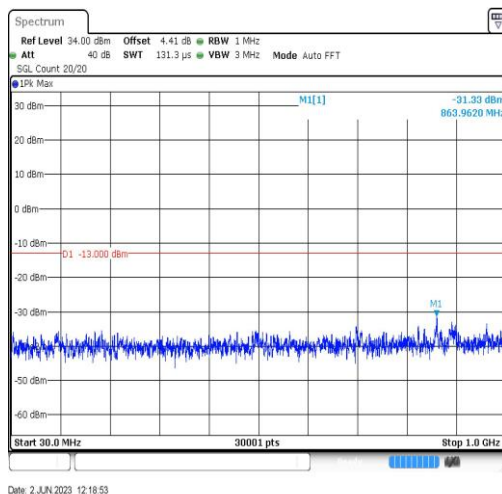


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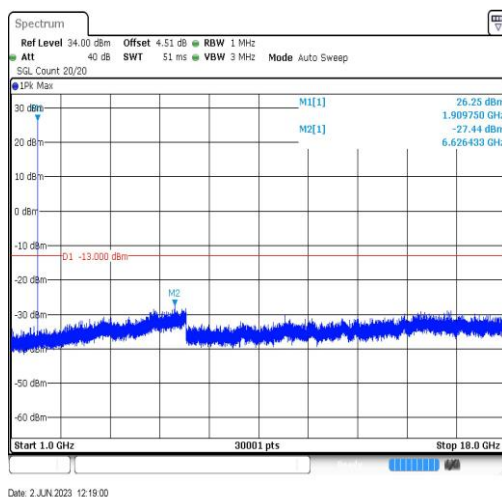
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EGPRS1900-661-2-30~1000MHz-863.96



EGPRS1900-661-2-1000~18000MHz-6626.43



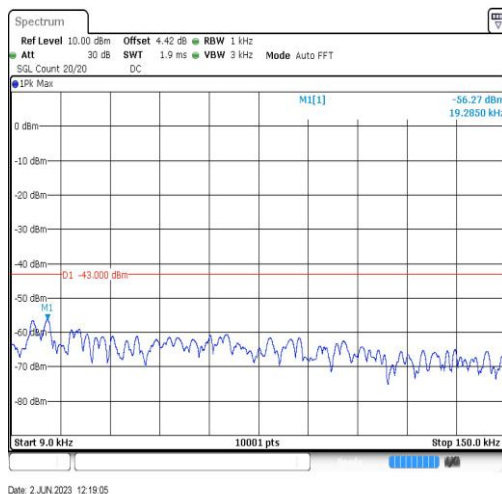
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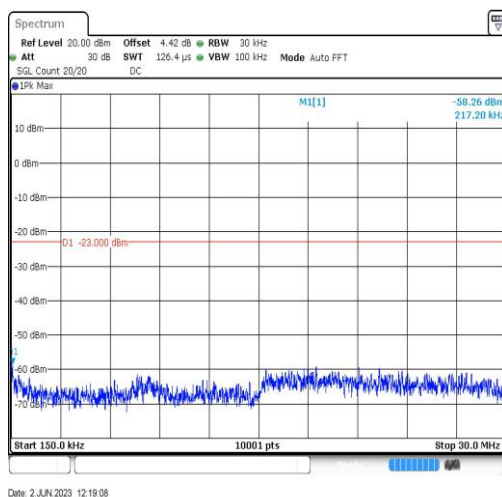
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EGPRS1900-810-2-0.009~0.15MHz-0.02



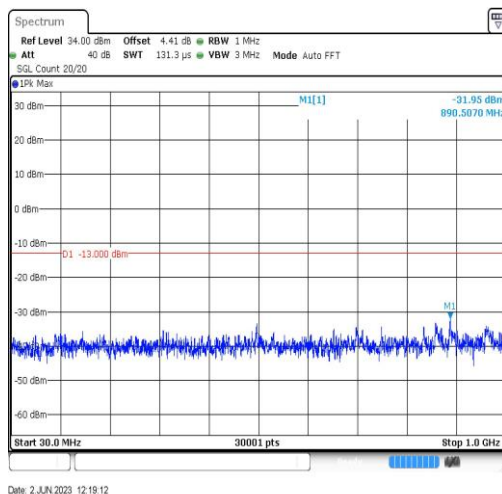
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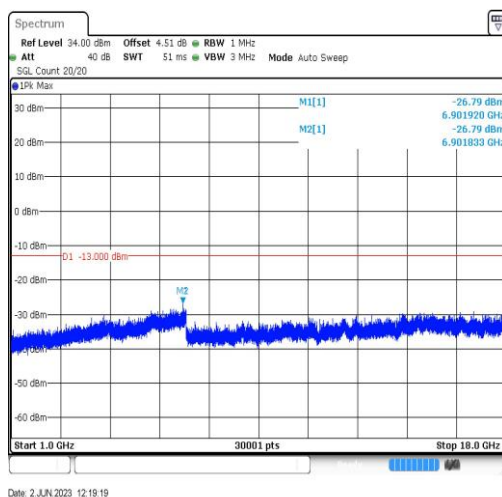
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EGPRS1900-810-2-30~1000MHz-890.51



EGPRS1900-810-2-1000~18000MHz-6901.83



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## Field Strength of Spurious Radiation

Test Band = GSM\_850\_ANT 31

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	1254.2627	55.74	-54.07	25.69	-67.90	-13.00	54.90	152	235	Horizontal
2	1648.4824	74.65	-52.88	25.90	-47.59	-13.00	34.59	188	47	Horizontal
3	2472.4736	64.44	-51.24	27.94	-54.12	-13.00	41.12	157	18	Horizontal
4	3296.4648	53.10	-49.73	30.69	-61.20	-13.00	48.20	169	354	Horizontal
5	5511.0256	49.62	-43.22	33.12	-55.74	-13.00	42.74	123	195	Horizontal
6	7881.7441	47.94	-42.20	37.29	-52.23	-13.00	39.23	350	318	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	1158.8579	54.53	-53.39	25.85	-68.27	-13.00	55.27	185	46	Vertical
2	1648.4824	62.83	-52.88	25.90	-59.41	-13.00	46.41	222	253	Vertical
3	2472.4736	63.20	-51.24	27.94	-55.36	-13.00	42.36	135	189	Vertical
4	3552.0776	51.83	-48.97	30.10	-62.30	-13.00	49.30	256	258	Vertical
5	5131.2066	50.60	-44.21	33.56	-55.31	-13.00	42.31	241	189	Vertical
6	8549.1275	46.82	-41.44	39.08	-50.80	-13.00	37.80	283	198	Vertical



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Test Band = GSM\_850\_ANT 31

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1151.2076	54.43	-53.37	25.89	-68.31	-13.00	55.31	153	192	Horizontal
2	1673.2337	65.76	-52.77	25.85	-56.42	-13.00	43.42	171	143	Horizontal
3	2509.8255	59.48	-51.14	28.06	-58.86	-13.00	45.86	273	325	Horizontal
4	4924.1962	50.23	-44.56	33.15	-56.44	-13.00	43.44	291	94	Horizontal
5	7366.4683	48.31	-42.71	36.87	-52.79	-13.00	39.79	254	89	Horizontal
6	9007.7004	47.37	-40.74	38.78	-49.85	-13.00	36.85	152	25	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1179.109	54.77	-53.43	25.73	-68.19	-13.00	55.19	199	40	Vertical
2	1673.2337	61.23	-52.77	25.85	-60.95	-13.00	47.95	183	192	Vertical
3	2509.8255	55.97	-51.14	28.06	-62.37	-13.00	49.37	182	187	Vertical
4	3981.3991	51.59	-47.95	31.03	-60.59	-13.00	47.59	243	55	Vertical
5	5530.8265	50.38	-43.35	33.16	-55.07	-13.00	42.07	222	344	Vertical
6	8937.9469	47.48	-40.74	38.45	-50.07	-13.00	37.07	336	349	Vertical



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Test Band = GSM\_850\_ANT 31

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1167.8584	54.76	-53.41	25.79	-68.12	-13.00	55.12	187	148	Horizontal
2	1697.5349	64.51	-52.66	25.80	-57.61	-13.00	44.61	146	360	Horizontal
3	2546.2773	64.94	-50.92	28.28	-52.96	-13.00	39.96	138	193	Horizontal
4	4235.6618	50.88	-47.30	31.93	-59.75	-13.00	46.75	361	291	Horizontal
5	7378.6189	48.23	-42.64	36.84	-52.83	-13.00	39.83	245	90	Horizontal
6	8987.8994	47.84	-40.79	38.73	-49.48	-13.00	36.48	222	26	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1166.9583	54.70	-53.41	25.80	-68.17	-13.00	55.17	133	187	Vertical
2	1697.5349	62.95	-52.66	25.80	-59.17	-13.00	46.17	245	196	Vertical
3	2546.2773	58.76	-50.92	28.28	-59.14	-13.00	46.14	156	329	Vertical
4	5138.4069	50.45	-44.26	33.58	-55.49	-13.00	42.49	247	99	Vertical
5	7888.0444	48.04	-42.19	37.33	-52.08	-13.00	39.08	361	20	Vertical
6	9029.7515	47.40	-40.40	38.74	-49.52	-13.00	36.52	224	103	Vertical



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Test Band = GSM\_1900\_ANT 31

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1375.0469	35.45	-19.35	25.85	-53.31	-13.00	40.31	158	37	Horizontal
2	2767.971	37.98	-17.11	28.66	-45.73	-13.00	32.73	177	354	Horizontal
3	3700.535	58.28	-50.02	30.30	-56.70	-13.00	43.70	182	305	Horizontal
4	7459.723	48.66	-43.47	36.68	-53.39	-13.00	40.39	197	344	Horizontal
5	12281.7141	45.01	-37.90	39.66	-48.49	-13.00	35.49	136	271	Horizontal
6	14647.3324	44.52	-39.76	40.36	-50.14	-13.00	37.14	254	173	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1501.3127	35.29	-18.83	25.61	-53.19	-13.00	40.19	188	152	Vertical
2	2953.9942	37.61	-16.88	29.34	-45.19	-13.00	32.19	129	121	Vertical
3	3700.535	56.16	-50.02	30.30	-58.82	-13.00	45.82	176	309	Vertical
4	5550.8775	51.92	-45.46	33.20	-55.60	-13.00	42.60	194	350	Vertical
5	8557.0279	46.45	-42.32	38.97	-52.16	-13.00	39.16	327	0	Vertical
6	11224.9112	46.13	-39.37	39.68	-48.82	-13.00	35.82	259	142	Vertical





Test Band = GSM\_1900\_ANT 31

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1428.0535	35.28	-19.21	25.74	-53.45	-13.00	40.45	178	144	Horizontal
2	3759.788	59.05	-49.40	30.50	-55.11	-13.00	42.11	124	348	Horizontal
3	5640.132	51.64	-45.31	33.32	-55.61	-13.00	42.61	258	204	Horizontal
4	8563.0282	46.60	-42.38	38.87	-52.17	-13.00	39.17	261	159	Horizontal
5	11800.19	45.71	-38.75	39.90	-48.40	-13.00	35.40	392	84	Horizontal
6	13963.2982	44.41	-39.80	40.54	-50.11	-13.00	37.11	315	343	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1348.5436	35.25	-19.39	25.89	-53.51	-13.00	40.51	153	44	Vertical
2	2669.4587	38.56	-17.57	28.38	-45.89	-13.00	32.89	218	2	Vertical
3	3759.788	59.04	-49.40	30.50	-55.12	-13.00	42.12	222	214	Vertical
4	6498.1749	48.01	-44.08	35.07	-56.26	-13.00	43.26	364	18	Vertical
5	8980.049	47.60	-41.82	38.68	-50.80	-13.00	37.80	153	84	Vertical
6	11237.6619	46.02	-39.42	39.66	-49.00	-13.00	36.00	199	9	Vertical





Test Band = GSM\_1900\_ANT 31

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1344.5431	35.34	-19.41	25.87	-53.46	-13.00	40.46	185	5	Horizontal
2	2625.2032	38.41	-17.70	28.35	-46.20	-13.00	33.20	223	206	Horizontal
3	3819.791	64.10	-49.64	30.46	-50.34	-13.00	37.34	328	328	Horizontal
4	5729.3865	51.34	-45.45	33.74	-55.63	-13.00	42.63	196	198	Horizontal
5	9545.5773	46.58	-41.60	39.11	-51.17	-13.00	38.17	351	174	Horizontal
6	12313.9657	45.01	-37.98	39.69	-48.54	-13.00	35.54	159	60	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1346.7933	35.24	-19.40	25.88	-53.54	-13.00	40.54	142	244	Vertical
2	2650.9564	38.55	-17.52	28.30	-45.93	-13.00	32.93	362	8	Vertical
3	3819.791	63.96	-49.64	30.46	-50.48	-13.00	37.48	156	40	Vertical
4	7486.7243	48.25	-43.27	36.63	-53.65	-13.00	40.65	241	55	Vertical
5	11234.6617	46.27	-39.41	39.67	-48.73	-13.00	35.73	111	184	Vertical
6	14034.5517	45.03	-39.99	40.57	-49.65	-13.00	36.65	366	242	Vertical





Test Band = GSM\_850\_ANT 13

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1697.5349	84.23	-52.66	25.80	-37.89	-13.00	24.89	230	188	Horizontal
2	2546.2773	74.78	-50.92	28.28	-43.12	-13.00	30.12	263	212	Horizontal
3	3395.4698	58.88	-49.70	29.79	-56.29	-13.00	43.29	252	192	Horizontal
4	4244.2122	53.61	-47.27	32.03	-56.89	-13.00	43.89	139	177	Horizontal
5	7441.6221	48.35	-42.79	36.72	-52.98	-13.00	39.98	308	339	Horizontal
6	9263.7632	46.53	-39.96	39.02	-49.67	-13.00	36.67	125	106	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1697.5349	80.55	-52.66	25.80	-41.57	-13.00	28.57	199	202	Vertical
2	2546.2773	75.38	-50.92	28.28	-42.52	-13.00	29.52	131	297	Vertical
3	3395.0198	56.93	-49.70	29.79	-58.24	-13.00	45.24	278	142	Vertical
4	5142.4571	49.98	-44.28	33.58	-55.98	-13.00	42.98	208	118	Vertical
5	7355.6678	48.18	-42.77	36.89	-52.96	-13.00	39.96	332	50	Vertical
6	9552.2276	46.53	-39.84	39.10	-49.47	-13.00	36.47	152	360	Vertical



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Test Band = GSM\_850\_ANT 13

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1171.0086	54.71	-53.42	25.77	-68.20	-13.00	55.20	177	248	Horizontal
2	1673.2337	81.55	-52.77	25.85	-40.63	-13.00	27.63	207	190	Horizontal
3	2509.8255	70.72	-51.14	28.06	-47.62	-13.00	34.62	328	20	Horizontal
4	3346.4173	54.79	-49.72	29.77	-60.42	-13.00	47.42	295	151	Horizontal
5	5103.7552	49.57	-44.06	33.51	-56.24	-13.00	43.24	127	244	Horizontal
6	9519.826	46.20	-40.04	39.16	-49.94	-13.00	36.94	153	278	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1673.2337	82.14	-52.77	25.85	-40.04	-13.00	27.04	182	235	Vertical
2	2509.8255	72.24	-51.14	28.06	-46.10	-13.00	33.10	173	4	Vertical
3	3346.4173	54.19	-49.72	29.77	-61.02	-13.00	48.02	253	156	Vertical
4	3840.092	52.50	-48.18	30.42	-60.52	-13.00	47.52	220	349	Vertical
5	5524.0762	50.01	-43.30	33.15	-55.40	-13.00	42.40	350	266	Vertical
6	8557.2279	46.11	-41.47	38.97	-51.65	-13.00	38.65	153	54	Vertical





Test Band = GSM\_850\_ANT 13

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1697.5349	77.78	-52.66	25.80	-44.34	-13.00	31.34	237	336	Horizontal
2	2546.2773	71.82	-50.92	28.28	-46.08	-13.00	33.08	290	204	Horizontal
3	3395.4698	56.67	-49.70	29.79	-58.50	-13.00	45.50	125	164	Horizontal
4	4243.7622	52.62	-47.27	32.03	-57.88	-13.00	44.88	338	312	Horizontal
5	6763.8882	48.87	-43.86	36.23	-54.02	-13.00	41.02	242	260	Horizontal
6	9020.301	47.00	-40.54	38.76	-50.04	-13.00	37.04	157	224	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1697.5349	85.06	-52.66	25.80	-37.06	-13.00	24.06	377	238	Vertical
2	2546.2773	70.77	-50.92	28.28	-47.13	-13.00	34.13	260	50	Vertical
3	3395.0198	54.48	-49.70	29.79	-60.69	-13.00	47.69	128	354	Vertical
4	5072.7036	50.09	-44.37	33.45	-56.09	-13.00	43.09	353	114	Vertical
5	6890.7945	49.15	-44.08	36.18	-54.01	-13.00	41.01	269	208	Vertical
6	9024.8012	47.04	-40.47	38.75	-49.94	-13.00	36.94	375	94	Vertical





Test Band = GSM\_1900\_ANT 13

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1477.0596	34.98	-18.96	25.65	-53.59	-13.00	40.59	113	31	Horizontal
2	2778.2223	37.93	-17.04	28.64	-45.73	-13.00	32.73	108	334	Horizontal
3	3700.535	59.28	-50.02	30.30	-55.70	-13.00	42.70	250	275	Horizontal
4	5687.3844	49.07	-44.85	33.45	-57.59	-13.00	44.59	361	354	Horizontal
5	8986.0493	46.73	-41.77	38.72	-51.58	-13.00	38.58	257	241	Horizontal
6	15044.8522	44.59	-39.11	39.86	-49.92	-13.00	36.92	329	300	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1165.0206	34.89	-19.18	25.81	-53.74	-13.00	40.74	372	322	Vertical
2	2610.7013	38.18	-17.80	28.38	-46.50	-13.00	33.50	284	2	Vertical
3	3700.535	60.59	-50.02	30.30	-54.39	-13.00	41.39	194	300	Vertical
4	6274.6637	48.74	-45.32	34.55	-57.29	-13.00	44.29	137	344	Vertical
5	11911.1956	44.92	-37.88	39.49	-48.73	-13.00	35.73	363	208	Vertical
6	17920.496	46.57	-42.98	42.32	-49.35	-13.00	36.35	351	2	Vertical



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Test Band = GSM\_1900\_ANT 13

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1356.7946	35.21	-19.38	25.89	-53.54	-13.00	40.54	127	210	Horizontal
2	2679.4599	38.45	-17.60	28.42	-45.99	-13.00	32.99	317	102	Horizontal
3	3759.788	61.89	-49.40	30.50	-52.27	-13.00	39.27	339	354	Horizontal
4	5640.132	51.48	-45.31	33.32	-55.77	-13.00	42.77	250	40	Horizontal
5	9026.5513	47.01	-41.77	38.75	-51.27	-13.00	38.27	258	358	Horizontal
6	15031.3516	43.85	-39.00	39.87	-50.54	-13.00	37.54	264	187	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1423.3029	35.24	-19.23	25.75	-53.50	-13.00	40.50	325	12	Vertical
2	2532.6916	37.79	-17.79	28.20	-47.06	-13.00	34.06	342	348	Vertical
3	3759.788	56.64	-49.40	30.50	-57.52	-13.00	44.52	108	237	Vertical
4	6804.9402	48.31	-44.97	36.28	-55.64	-13.00	42.64	120	148	Vertical
5	11173.1587	45.87	-39.22	39.62	-48.99	-13.00	35.99	227	84	Vertical
6	17915.2458	46.52	-42.98	42.29	-49.43	-13.00	36.43	293	198	Vertical





Test Band = GSM\_1900\_ANT 13

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1172.0215	35.16	-19.21	25.77	-53.54	-13.00	40.54	133	70	Horizontal
2	2561.4452	38.01	-17.69	28.32	-46.62	-13.00	33.62	218	271	Horizontal
3	3819.791	61.51	-49.64	30.46	-52.93	-13.00	39.93	330	204	Horizontal
4	5729.3865	50.26	-45.45	33.74	-56.71	-13.00	43.71	242	244	Horizontal
5	9007.8004	47.44	-41.68	38.78	-50.72	-13.00	37.72	395	343	Horizontal
6	15761.1381	44.37	-39.74	39.28	-51.35	-13.00	38.35	265	308	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1351.794	34.90	-19.39	25.90	-53.85	-13.00	40.85	238	183	Vertical
2	2534.1918	37.88	-17.77	28.21	-46.94	-13.00	33.94	359	307	Vertical
3	3819.791	60.80	-49.64	30.46	-53.64	-13.00	40.64	226	263	Vertical
4	6870.1935	49.15	-45.03	36.14	-55.00	-13.00	42.00	282	228	Vertical
5	10568.6284	45.98	-40.47	39.27	-50.48	-13.00	37.48	390	50	Vertical
6	17991.7496	47.09	-43.99	42.75	-49.41	-13.00	36.41	352	212	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	VN	NT	-0.06	-0.000072	±2.5	PASS
GSM850	190	VL	NT	2.07	0.002474	±2.5	PASS
GSM850	190	VH	NT	4.20	0.005020	±2.5	PASS
EGPRS850	190	VN	NT	3.81	0.004554	±2.5	PASS
EGPRS850	190	VL	NT	5.78	0.006909	±2.5	PASS
EGPRS850	190	VH	NT	5.20	0.006216	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	1.74	0.002080	±2.5	PASS
GSM850	190	NV	-20	-2.52	-0.003012	±2.5	PASS
GSM850	190	NV	-10	-1.23	-0.001470	±2.5	PASS
GSM850	190	NV	0	-7.49	-0.008953	±2.5	PASS
GSM850	190	NV	10	-7.10	-0.008487	±2.5	PASS
GSM850	190	NV	20	-6.01	-0.007184	±2.5	PASS
GSM850	190	NV	30	-5.49	-0.006562	±2.5	PASS
GSM850	190	NV	40	-6.33	-0.007566	±2.5	PASS
GSM850	190	NV	50	-5.62	-0.006718	±2.5	PASS
EGPRS850	190	NV	-30	3.71	0.004435	±2.5	PASS
EGPRS850	190	NV	-20	5.23	0.006251	±2.5	PASS
EGPRS850	190	NV	-10	4.26	0.005092	±2.5	PASS
EGPRS850	190	NV	0	0.23	0.000275	±2.5	PASS
EGPRS850	190	NV	10	2.36	0.002821	±2.5	PASS
EGPRS850	190	NV	20	1.29	0.001542	±2.5	PASS
EGPRS850	190	NV	30	0.71	0.000849	±2.5	PASS
EGPRS850	190	NV	40	1.87	0.002235	±2.5	PASS
EGPRS850	190	NV	50	0.71	0.000849	±2.5	PASS





Voltage						
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	VN	NT	3.68	0.001957	PASS
GSM1900	661	VL	NT	6.46	0.003436	PASS
GSM1900	661	VH	NT	6.39	0.003399	PASS
EGPRS1900	661	VN	NT	17.18	0.009138	PASS
EGPRS1900	661	VL	NT	12.82	0.006819	PASS
EGPRS1900	661	VH	NT	15.21	0.008090	PASS

Temperature						
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	NV	-30	11.49	0.006112	PASS
GSM1900	661	NV	-20	7.10	0.003777	PASS
GSM1900	661	NV	-10	8.72	0.004638	PASS
GSM1900	661	NV	0	15.30	0.008138	PASS
GSM1900	661	NV	10	16.21	0.008622	PASS
GSM1900	661	NV	20	17.24	0.009170	PASS
GSM1900	661	NV	30	13.17	0.007005	PASS
GSM1900	661	NV	40	8.20	0.004362	PASS
GSM1900	661	NV	50	17.82	0.009479	PASS
EGPRS1900	661	NV	-30	11.24	0.005979	PASS
EGPRS1900	661	NV	-20	13.82	0.007351	PASS
EGPRS1900	661	NV	-10	18.18	0.009670	PASS
EGPRS1900	661	NV	0	24.18	0.012862	PASS
EGPRS1900	661	NV	10	21.83	0.011612	PASS
EGPRS1900	661	NV	20	19.02	0.010117	PASS
EGPRS1900	661	NV	30	14.50	0.007713	PASS
EGPRS1900	661	NV	40	26.67	0.014186	PASS
EGPRS1900	661	NV	50	23.18	0.012330	PASS

---End of Attachment---

