



Appendix B.1

GSM 850&1900



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Effective (Isotropic) Radiated Power Output Data for SEWM2307000261RG01

Test Result

Ant1:

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
GSM850	128	32.17	25.42	38.50	PASS
GSM850	190	32.21	25.46	38.50	PASS
GSM850	251	32.15	25.40	38.50	PASS

Band	Channel	Slot	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	26.53	19.78	38.50	PASS
EGPRS850	128	2	23.65	16.90	38.50	PASS
EGPRS850	128	3	22.10	15.35	38.50	PASS
EGPRS850	128	4	20.69	13.94	38.50	PASS
EGPRS850	190	1	26.62	19.87	38.50	PASS
EGPRS850	190	2	23.73	16.98	38.50	PASS
EGPRS850	190	3	22.08	15.33	38.50	PASS
EGPRS850	190	4	20.50	13.75	38.50	PASS
EGPRS850	251	1	26.58	19.83	38.50	PASS
EGPRS850	251	2	23.68	16.93	38.50	PASS
EGPRS850	251	3	22.09	15.34	38.50	PASS
EGPRS850	251	4	20.54	13.79	38.50	PASS



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Ant3:

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	28.66	26.96	33.00	PASS
GSM1900	661	28.87	27.17	33.00	PASS
GSM1900	810	28.76	27.06	33.00	PASS

Band	Channel	Slot	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	24.59	22.89	33.00	PASS
EGPRS1900	512	2	22.51	20.81	33.00	PASS
EGPRS1900	512	3	20.99	19.29	33.00	PASS
EGPRS1900	512	4	19.03	17.33	33.00	PASS
EGPRS1900	661	1	24.63	22.93	33.00	PASS
EGPRS1900	661	2	22.49	20.79	33.00	PASS
EGPRS1900	661	3	20.99	19.29	33.00	PASS
EGPRS1900	661	4	19.11	17.41	33.00	PASS
EGPRS1900	810	1	24.64	22.94	33.00	PASS
EGPRS1900	810	2	22.5	20.8	33.00	PASS
EGPRS1900	810	3	20.93	19.23	33.00	PASS
EGPRS1900	810	4	19.05	17.35	33.00	PASS



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Effective (Isotropic) Radiated Power Output Data for SEWM2309000395RG01

Test Result

Ant1:

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
GSM850	128	31.22	24.47	38.5	PASS
GSM850	190	31.72	24.97	38.5	PASS
GSM850	251	31.73	24.98	38.5	PASS

Ant3:

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	28.57	26.87	33	PASS
GSM1900	661	28.63	26.93	33	PASS
GSM1900	810	28.63	26.93	33	PASS



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Report No.: SEWM2309000395RG01
Rev.: 01
Page: 5 of 67

Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	10.62	13	PASS
GSM850	190	9.5	13	PASS
GSM850	251	9.52	13	PASS
EGPRS850	128	12.74	13	PASS
EGPRS850	190	12.76	13	PASS
EGPRS850	251	12.6	13	PASS
GSM1900	512	9.86	13	PASS
GSM1900	661	9.86	13	PASS
GSM1900	810	9.78	13	PASS
EGPRS1900	512	12.72	13	PASS
EGPRS1900	661	12.76	13	PASS
EGPRS1900	810	12.72	13	PASS



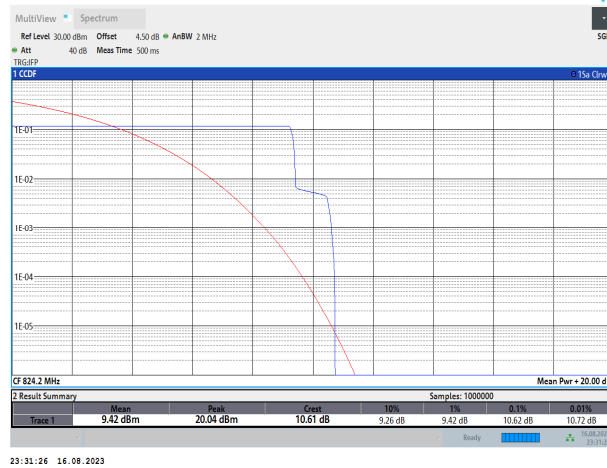
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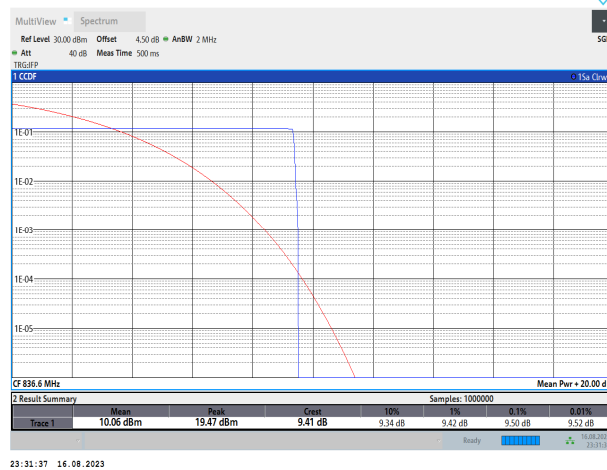
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Test Graphs

GSM850-128



GSM850-190



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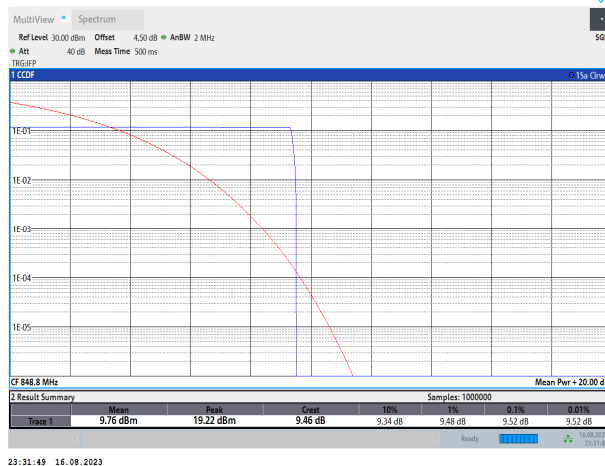
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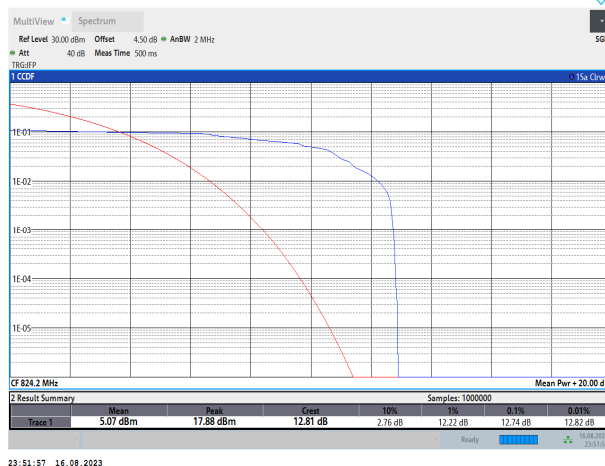
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GSM850-251



EGPRS850-128



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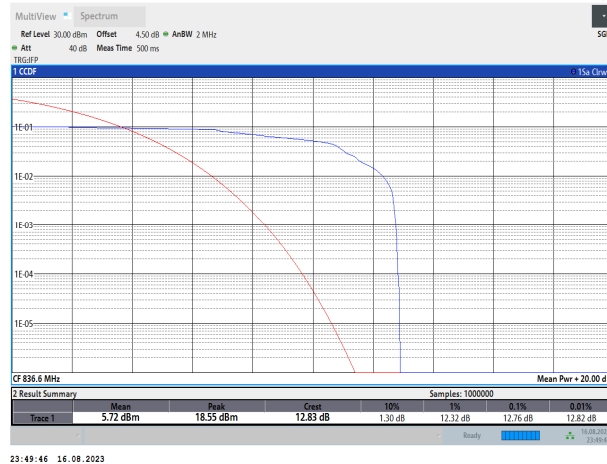
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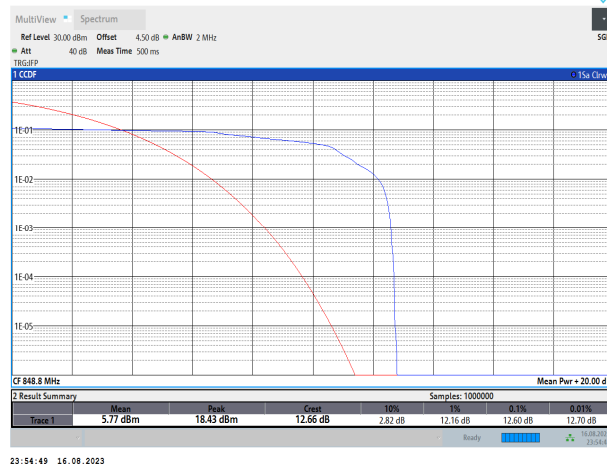
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EGPRS850-190



EGPRS850-251



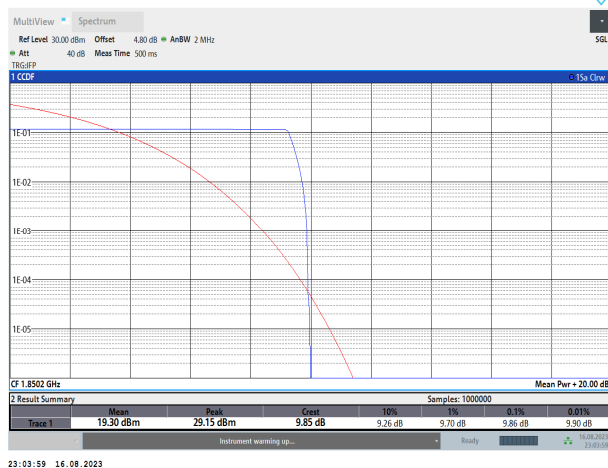
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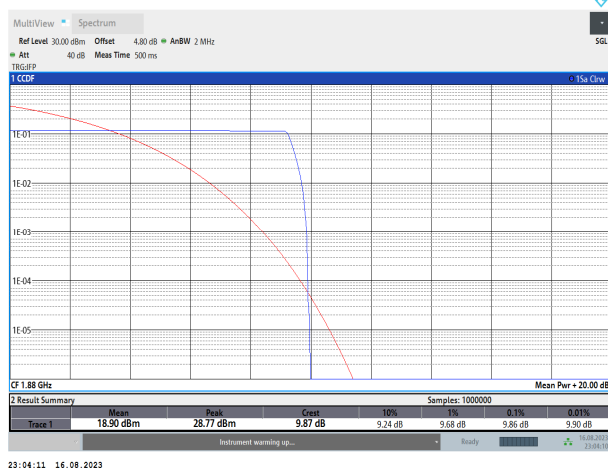
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GSM1900-512



GSM1900-661

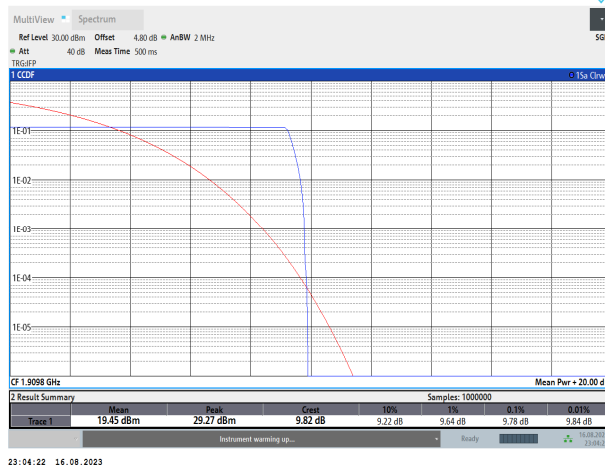


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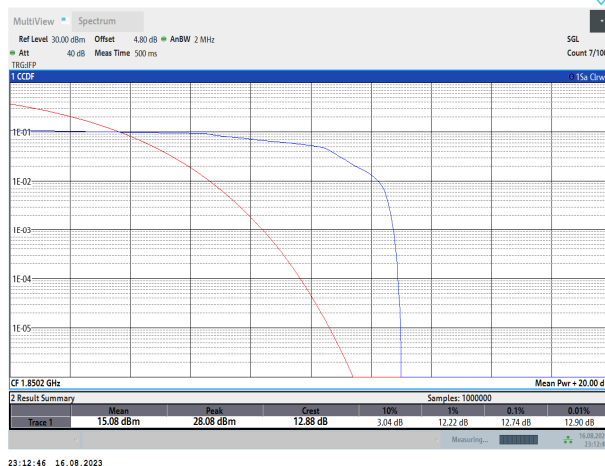
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GSM1900-810



EGPRS1900-512



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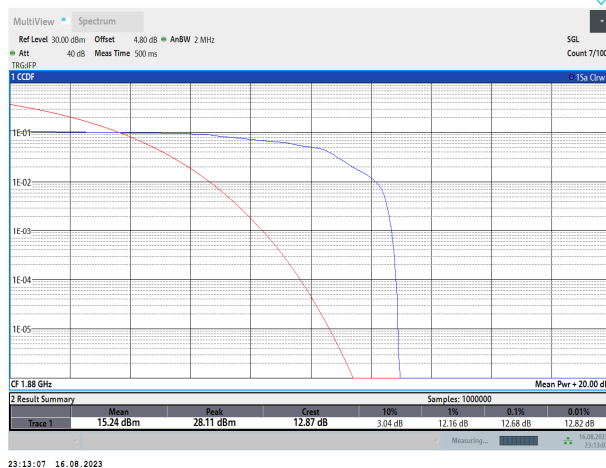
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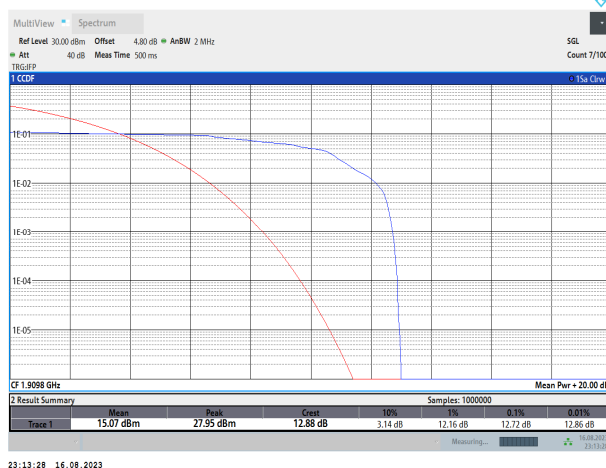
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EGPRS1900-661



EGPRS1900-810



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.245	0.32	---	PASS
GSM850	190	0.245	0.32	---	PASS
GSM850	251	0.244	0.32	---	PASS
EGPRS850	128	0.244	0.31	---	PASS
EGPRS850	190	0.246	0.32	---	PASS
EGPRS850	251	0.244	0.32	---	PASS
GSM1900	512	0.243	0.32	---	PASS
GSM1900	661	0.246	0.32	---	PASS
GSM1900	810	0.248	0.31	---	PASS
EGPRS1900	512	0.244	0.32	---	PASS
EGPRS1900	661	0.247	0.32	---	PASS
EGPRS1900	810	0.244	0.31	---	PASS



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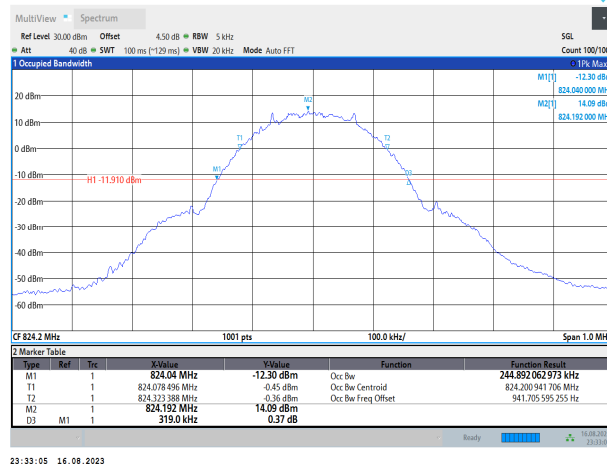
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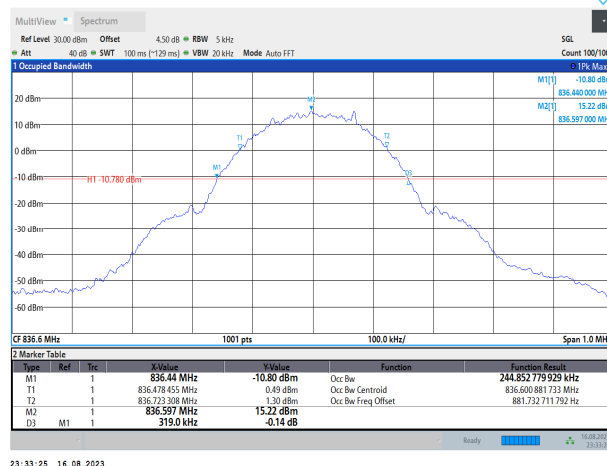
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Test Graphs

GSM850-128



GSM850-190



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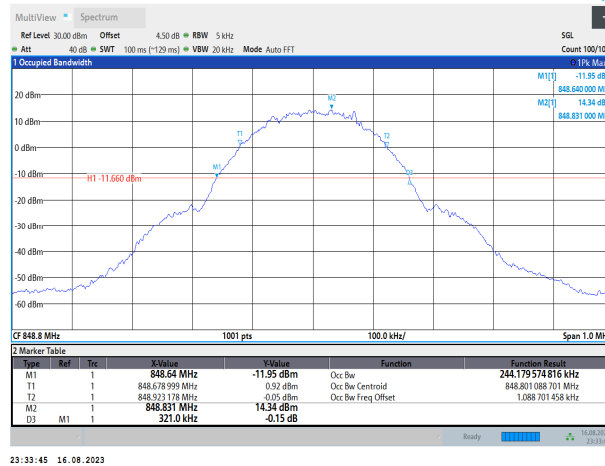
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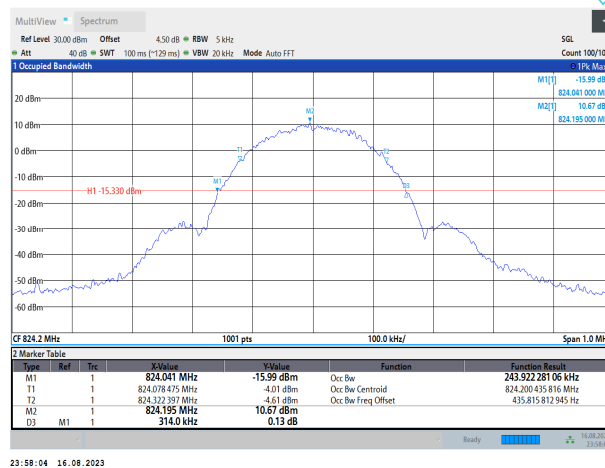
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Page: 14 of 67

GSM850-251



EGPRS850-128

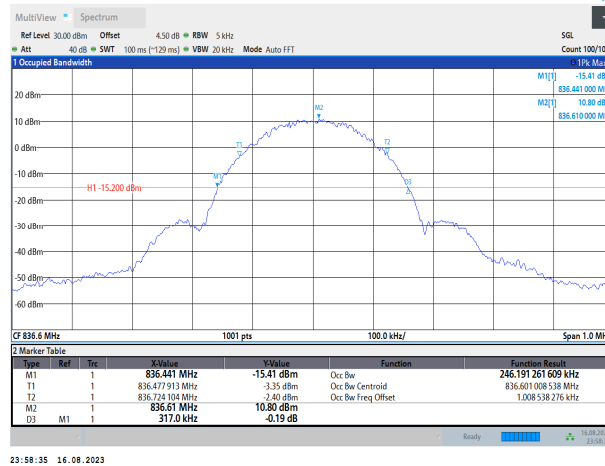


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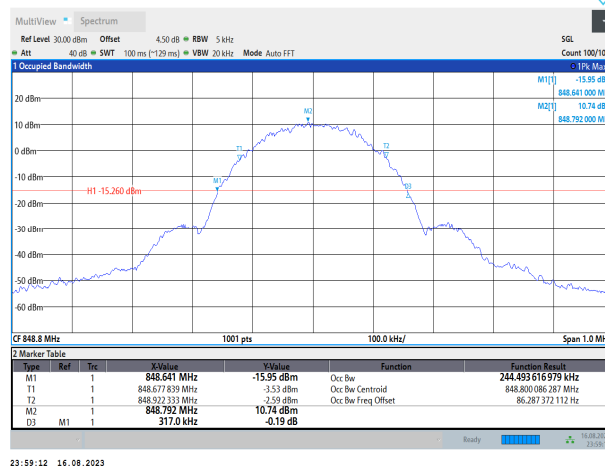
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EGPRS850-190



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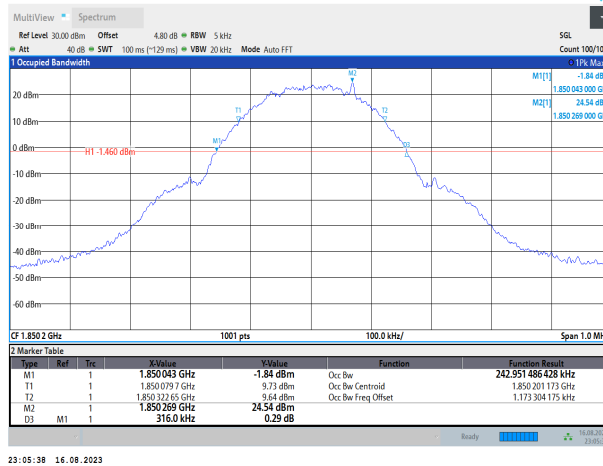
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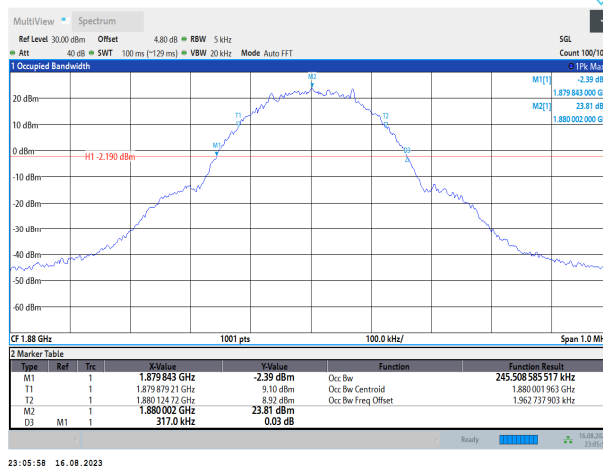
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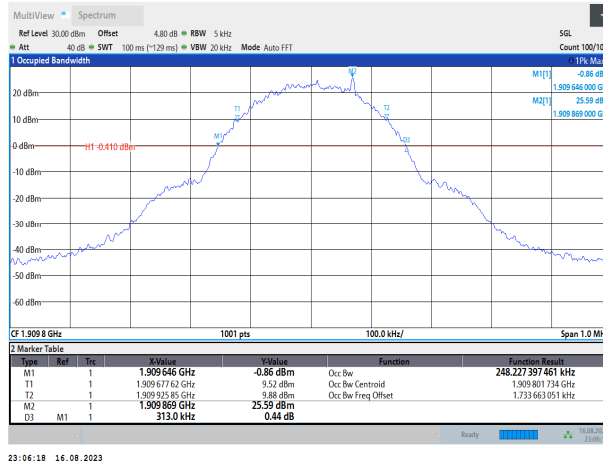
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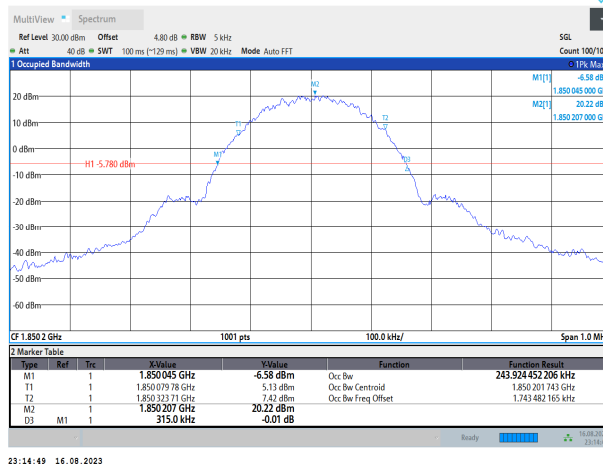
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GSM1900-810



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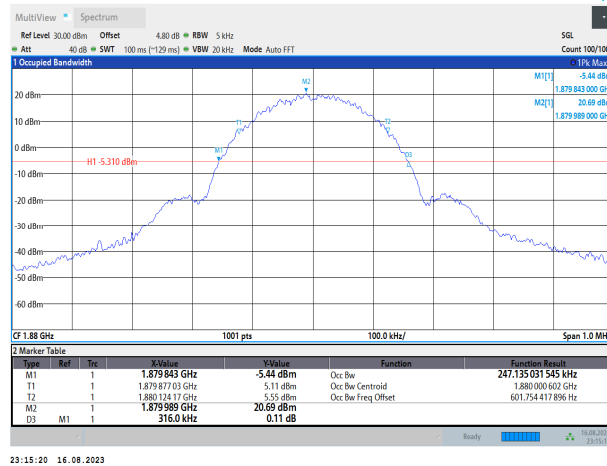
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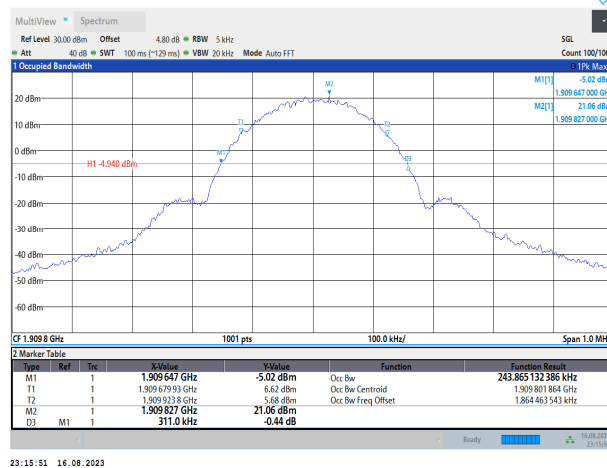
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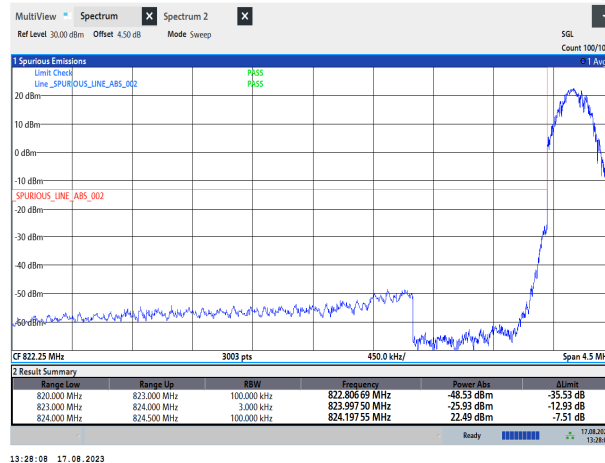
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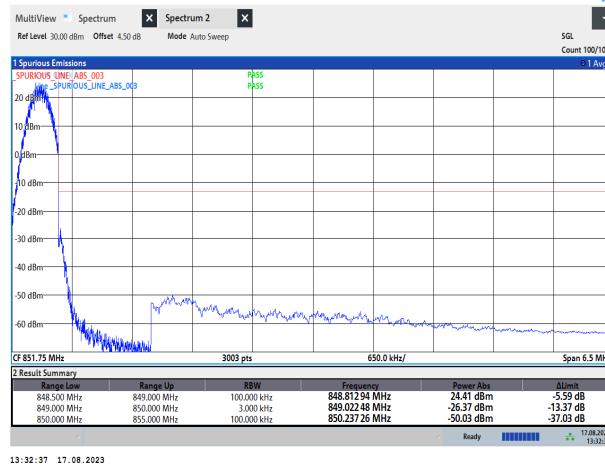
Band Edge

Test Graphs

GSM850-128



GSM850-251



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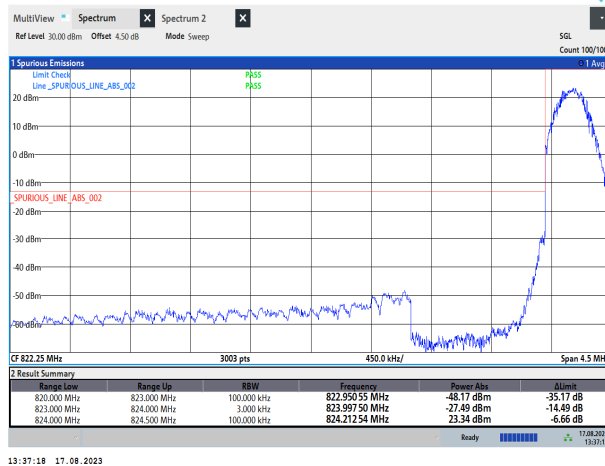
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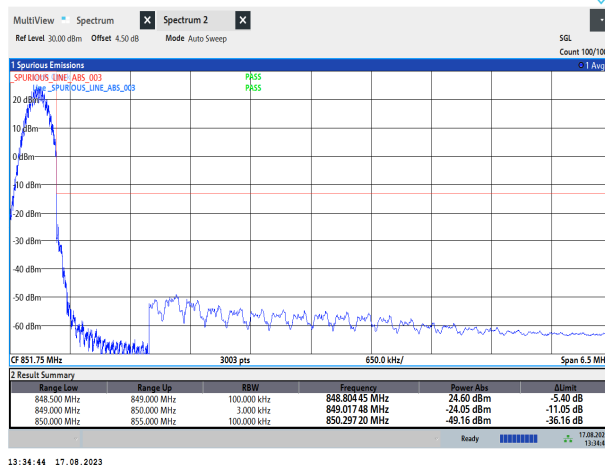
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EGPRS850-128



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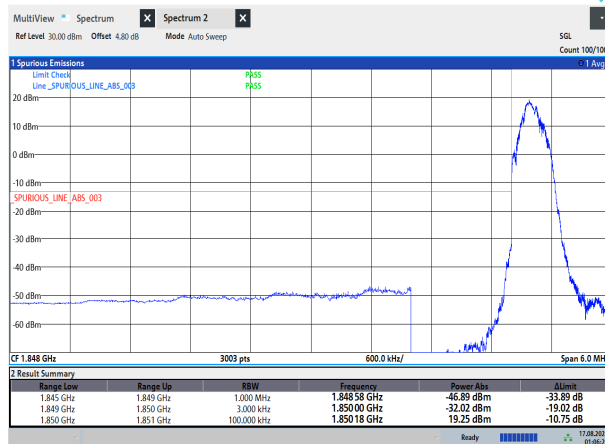
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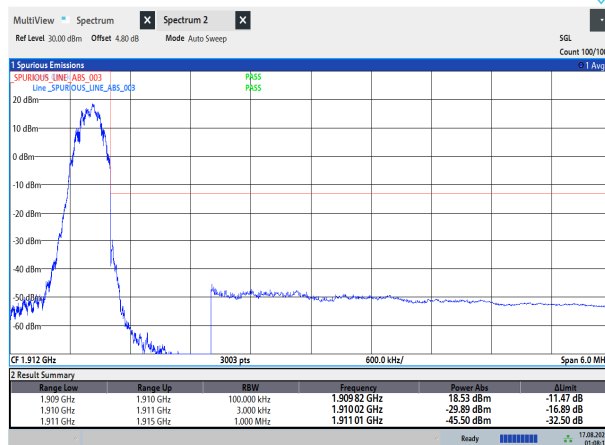
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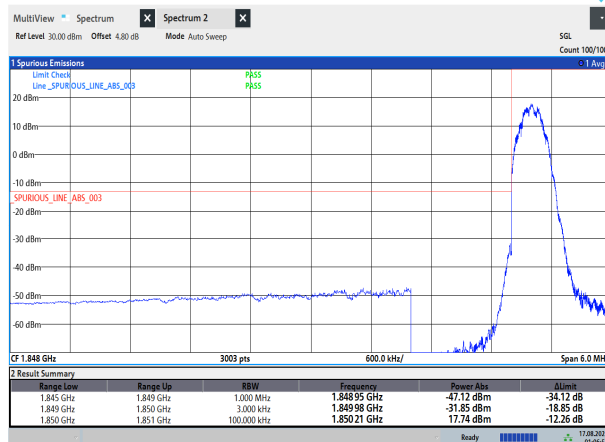
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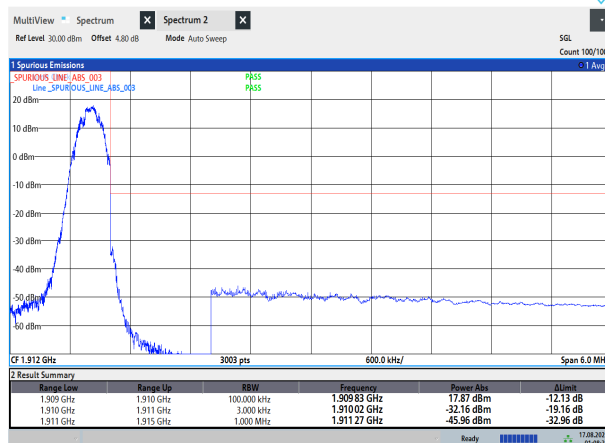
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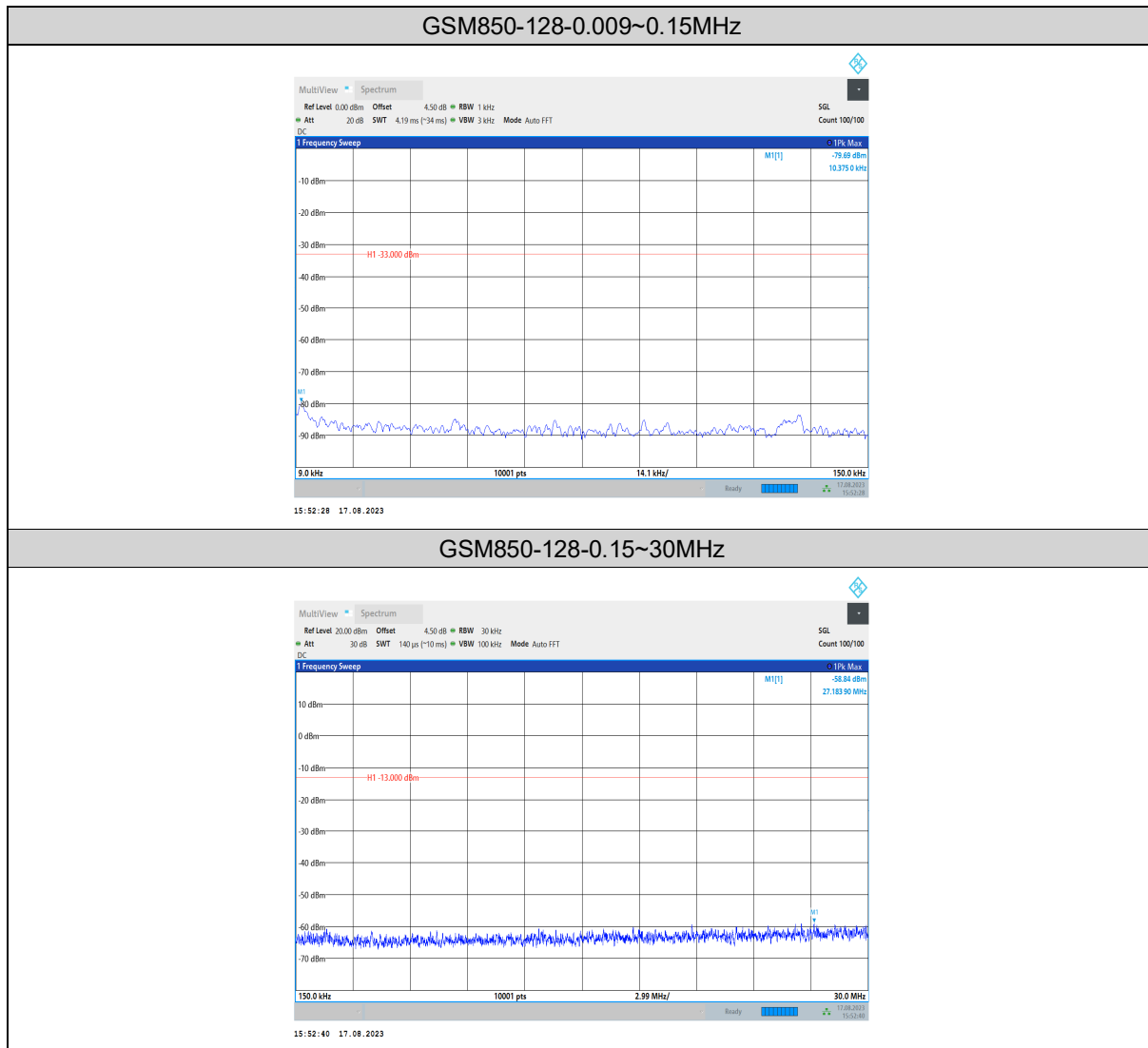
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Conducted Spurious Emission

Test Graphs



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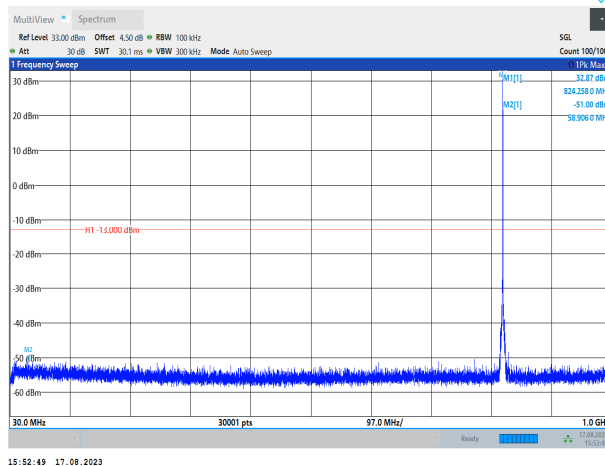
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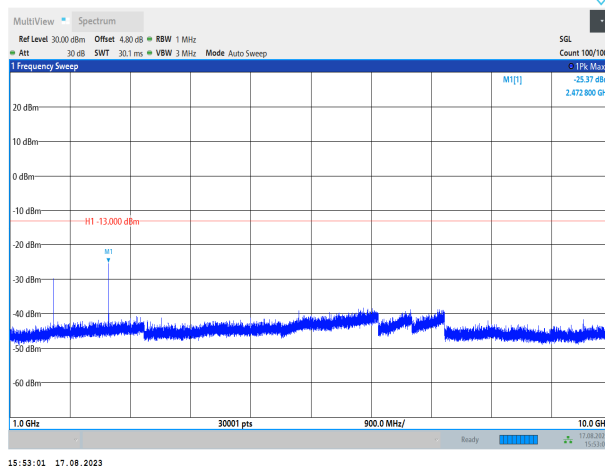
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GSM850-128-30~1000MHz



GSM850-128-1000~10000MHz



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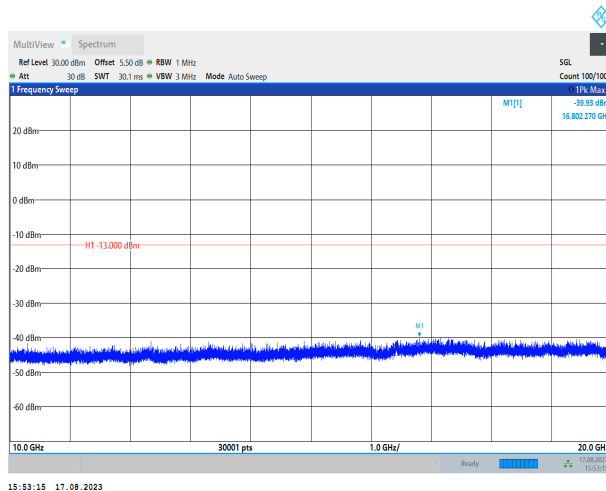
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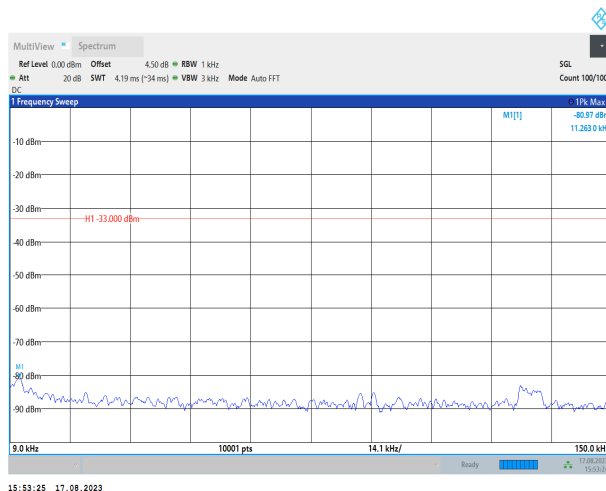
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GSM850-128-10000~20000MHz



GSM850-190-0.009~0.15MHz



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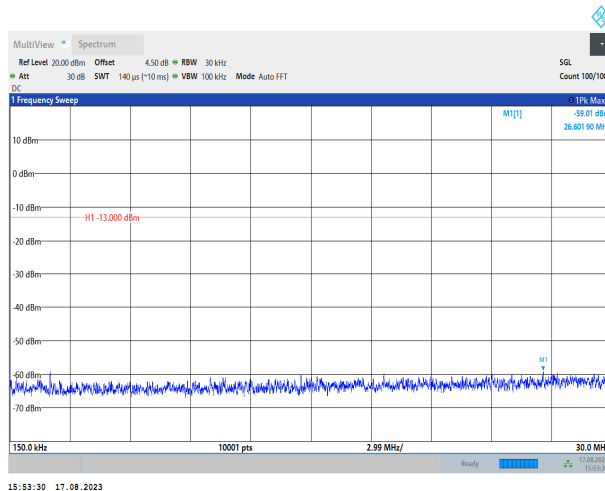
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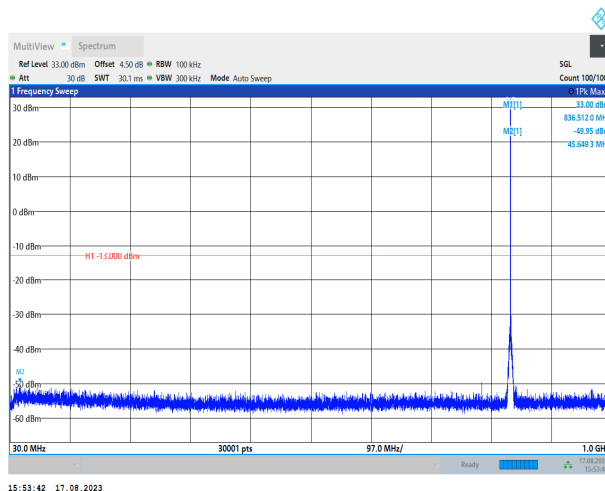
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Page: 26 of 67

GSM850-190-0.15~30MHz



GSM850-190-30~1000MHz



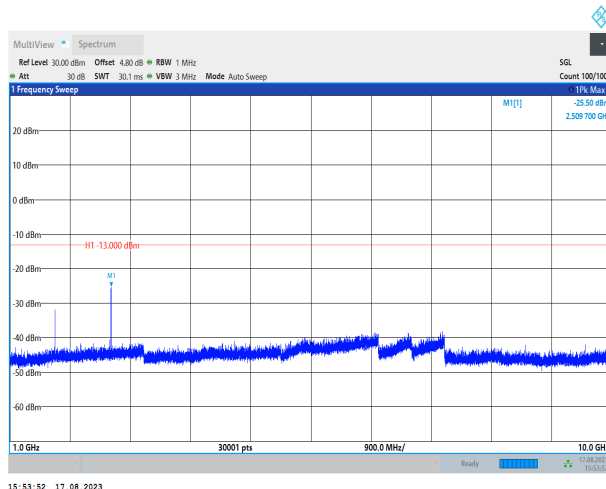
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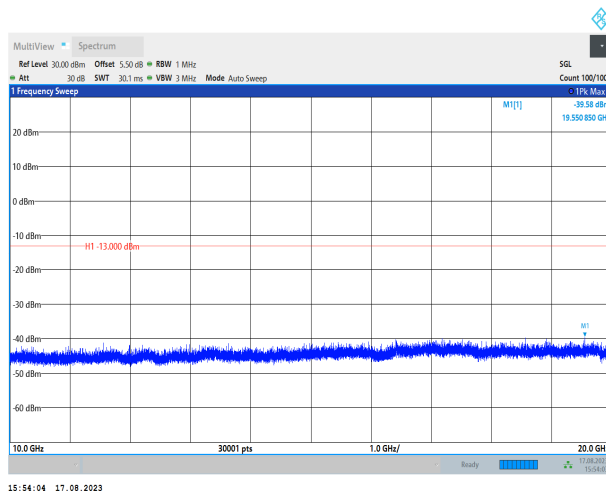
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GSM850-190-1000~10000MHz



GSM850-190-10000~20000MHz



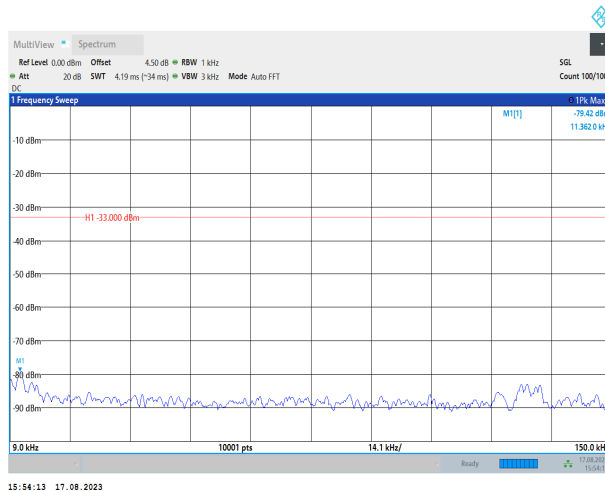
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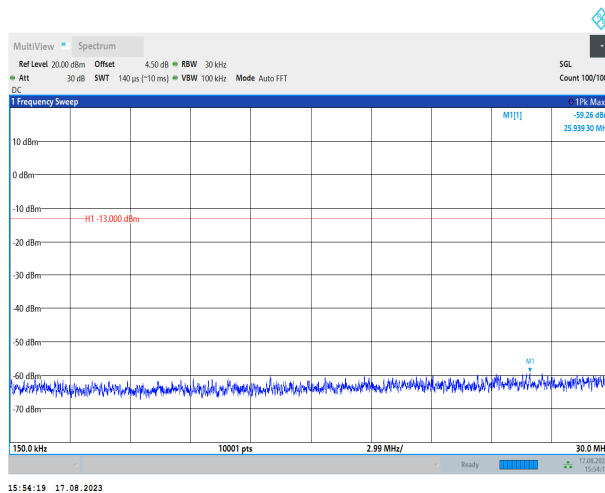
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GSM850-251-0.009~0.15MHz



GSM850-251-0.15~30MHz

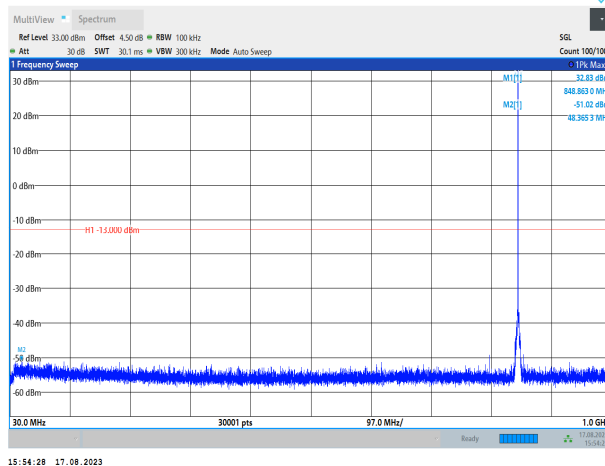


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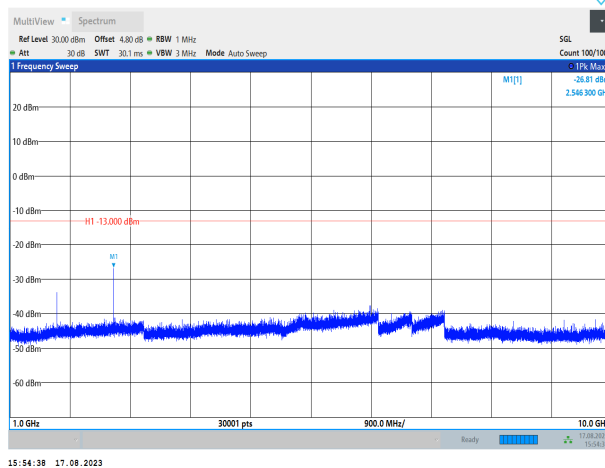
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Page: 29 of 67

GSM850-251-30~1000MHz



GSM850-251-1000~10000MHz



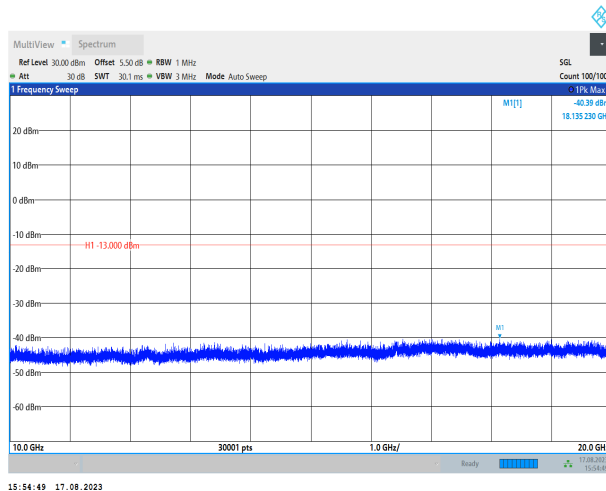
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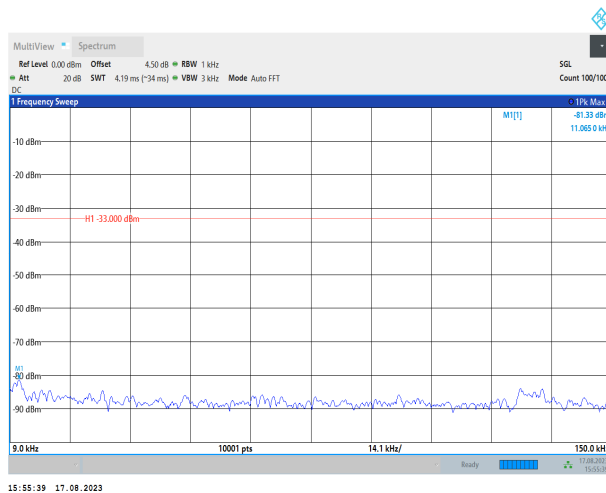
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GSM850-251-10000~20000MHz



EGPRS850-128-0.009~0.15MHz

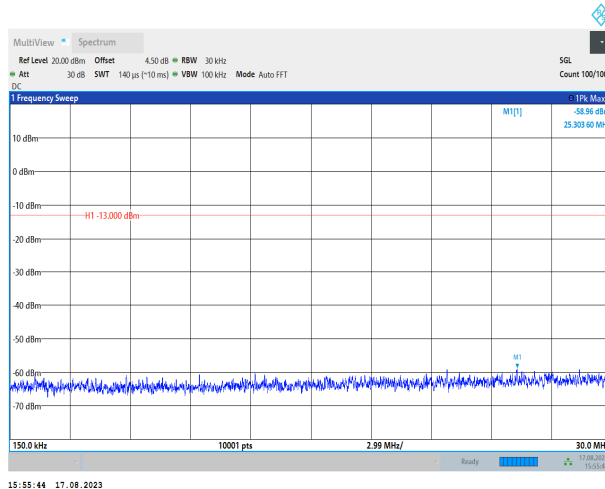


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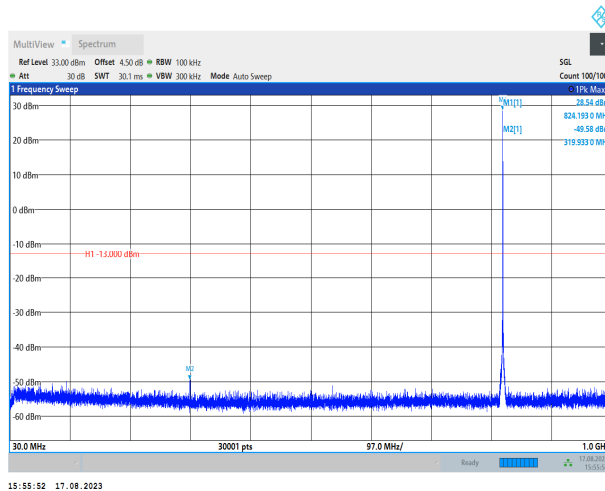
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EGPRS850-128-0.15~30MHz



EGPRS850-128-30~1000MHz



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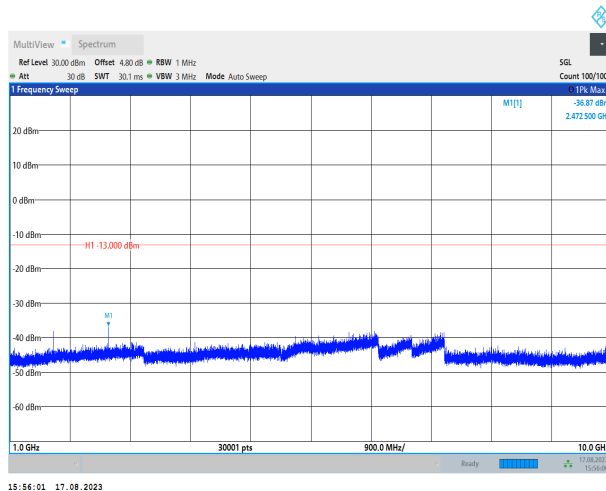


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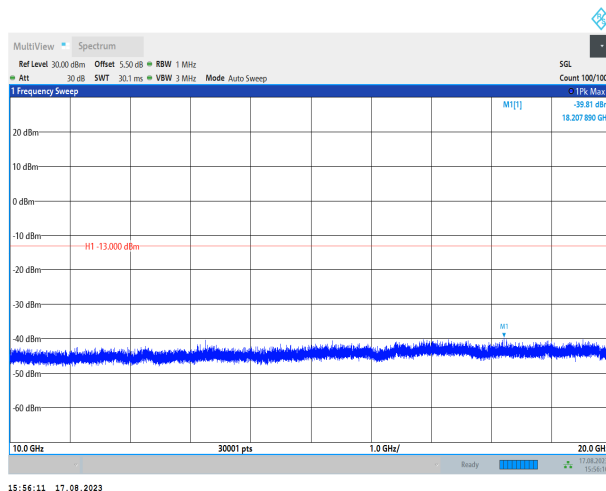
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Page: 32 of 67

EGPRS850-128-1000~10000MHz



EGPRS850-128-10000~20000MHz



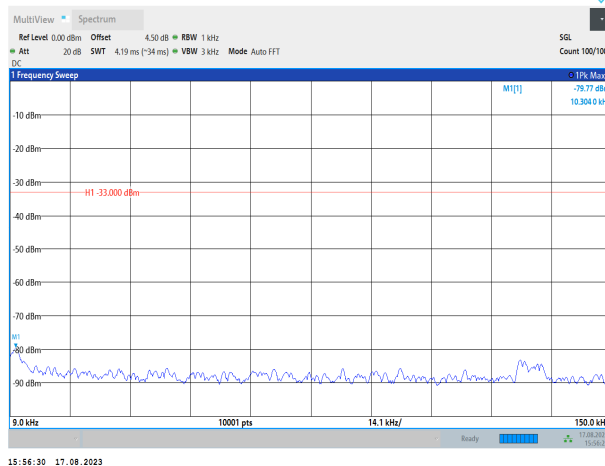
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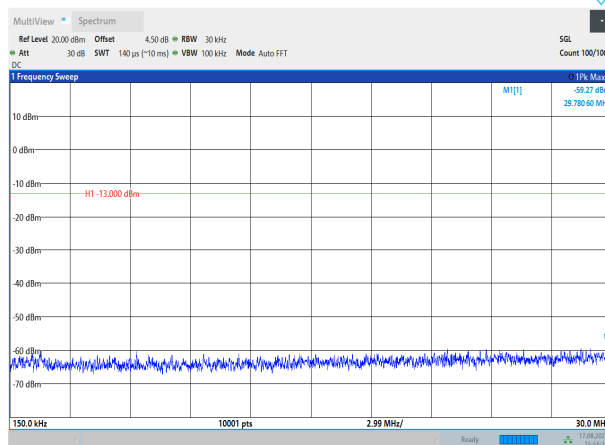
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EGPRS850-190-0.009~0.15MHz



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EGPRS850-190-0.15~30MHz



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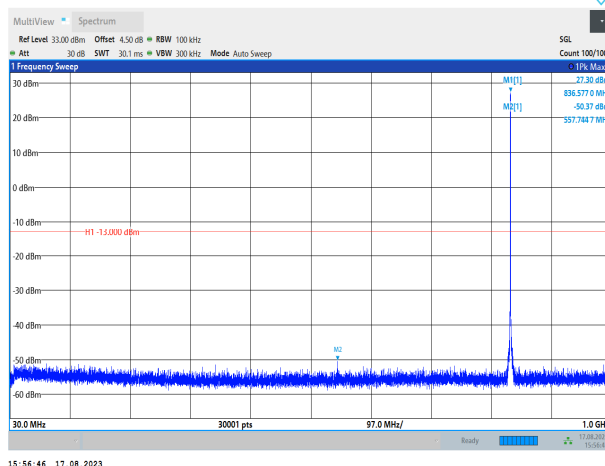
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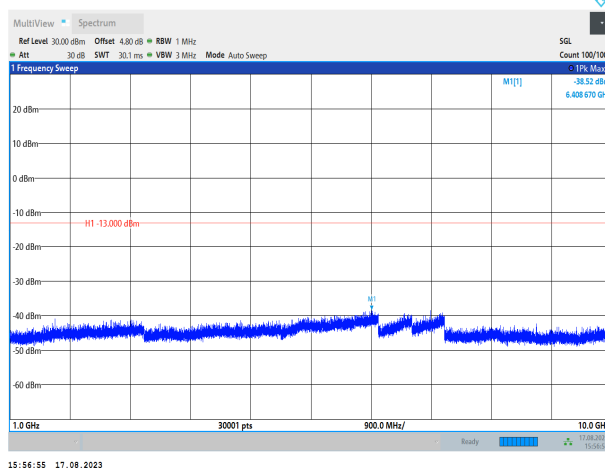
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EGPRS850-190-30~1000MHz



EGPRS850-190-1000~10000MHz



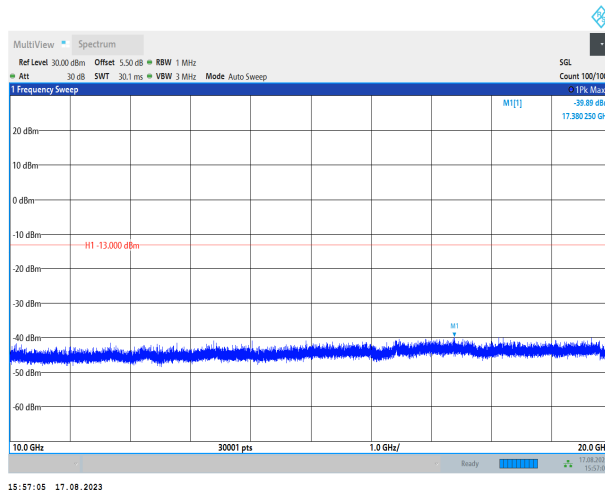
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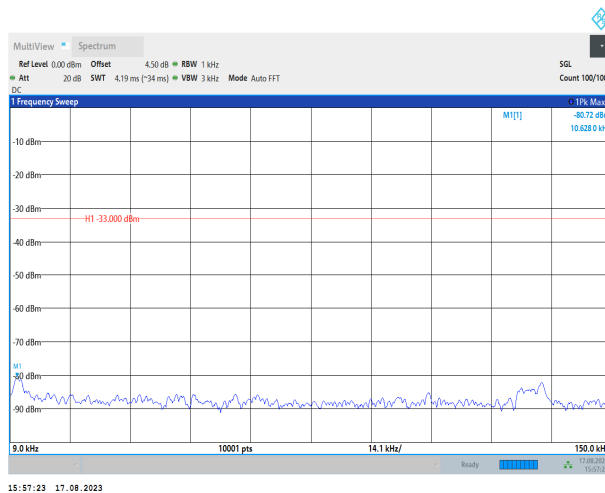
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EGPRS850-190-10000~20000MHz



EGPRS850-251-0.009~0.15MHz



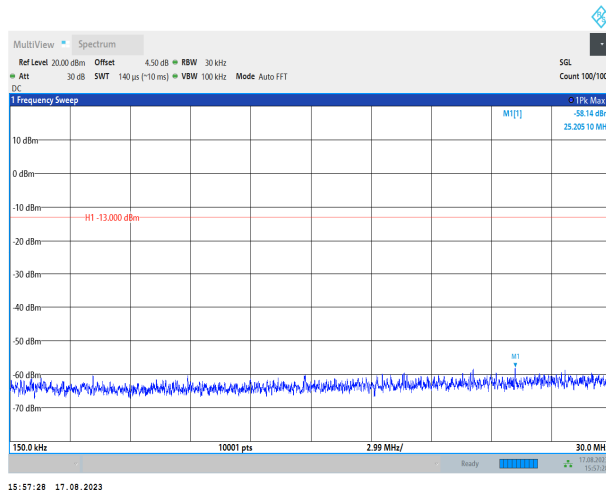


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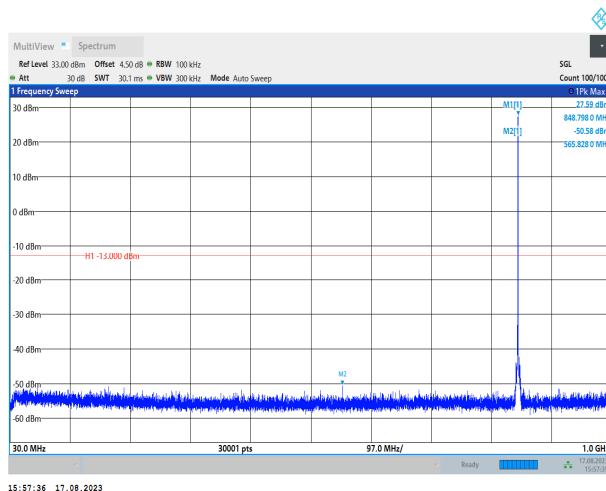
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EGPRS850-251-0.15~30MHz



EGPRS850-251-30~1000MHz

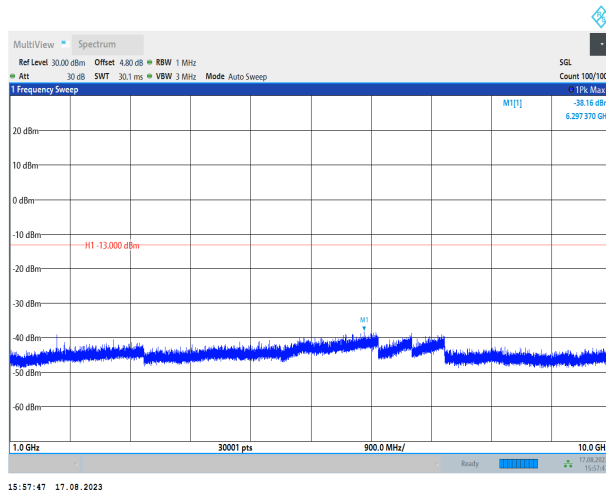


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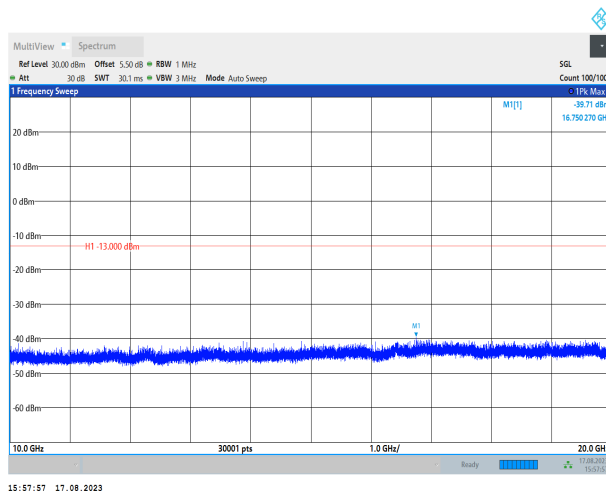
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EGPRS850-251-1000~10000MHz



EGPRS850-251-10000~20000MHz



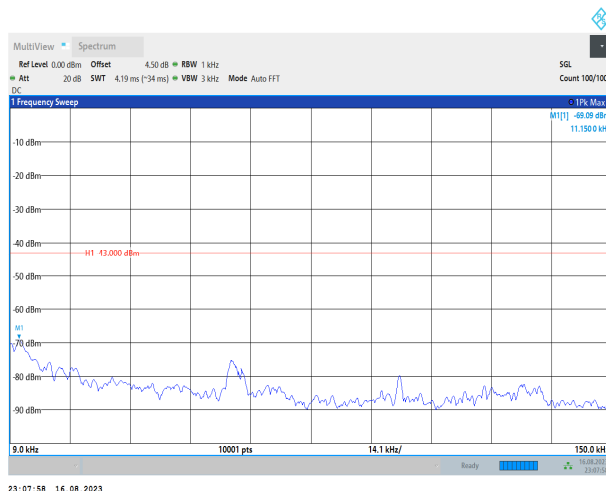
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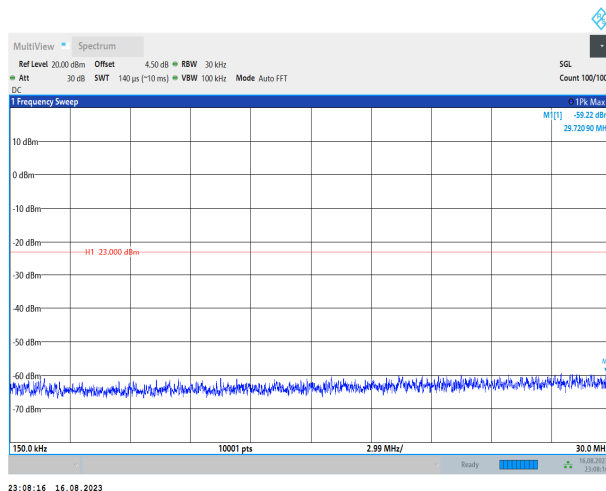
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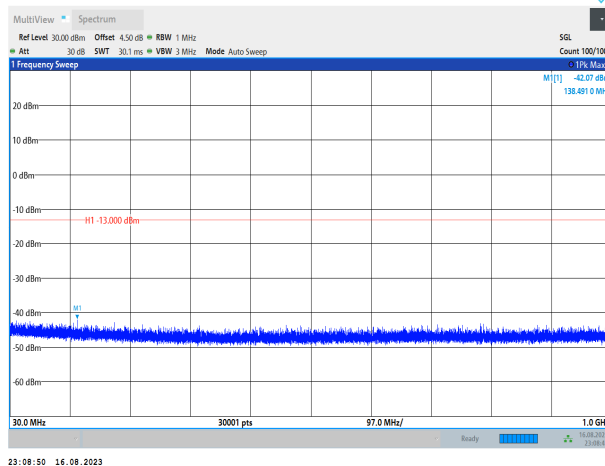
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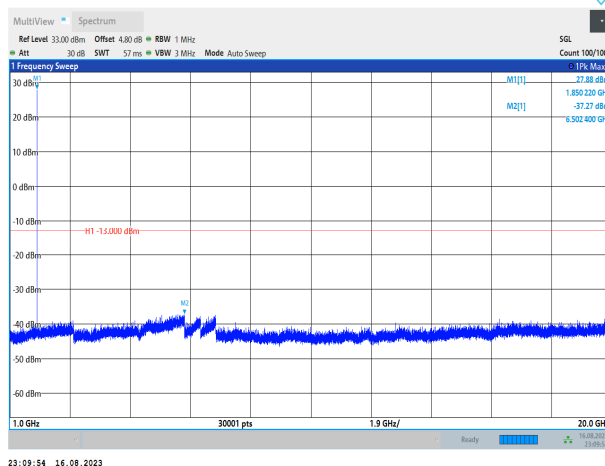
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GSM1900-512-30~1000MHz



GSM1900-512-1000~20000MHz



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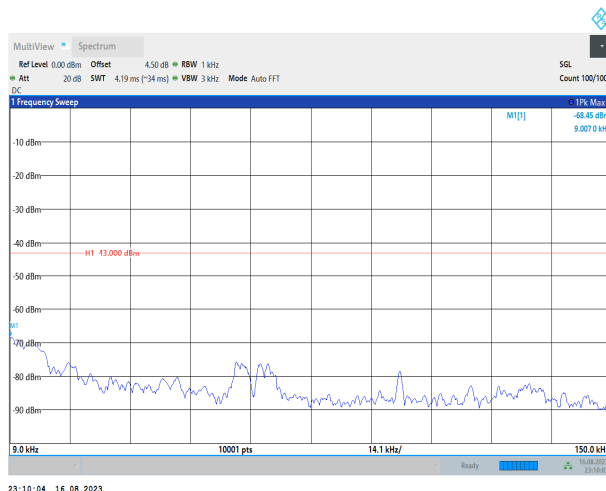


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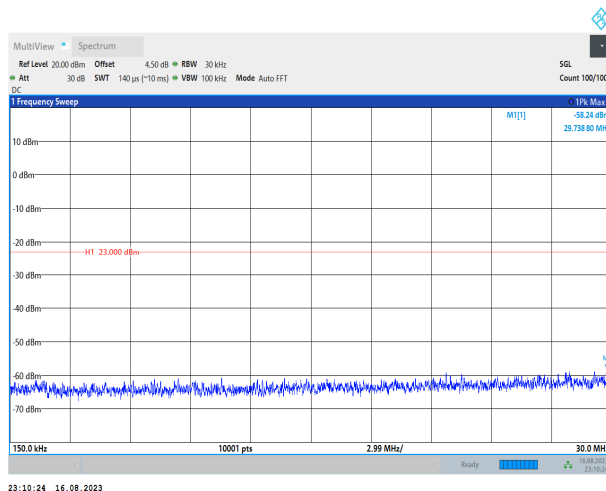
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GSM1900-661-0.009~0.15MHz



GSM1900-661-0.15~30MHz



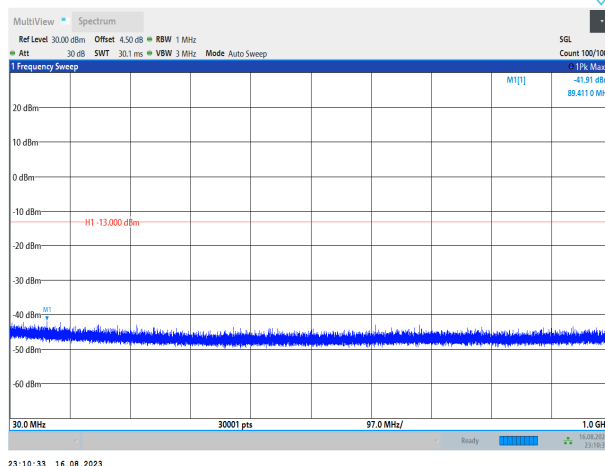
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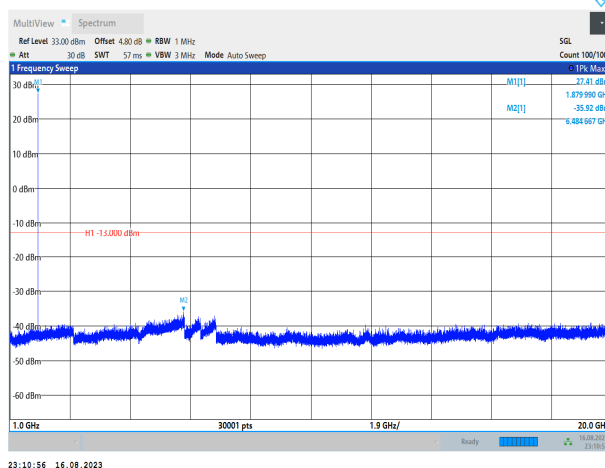
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GSM1900-661-30~1000MHz



GSM1900-661-1000~20000MHz



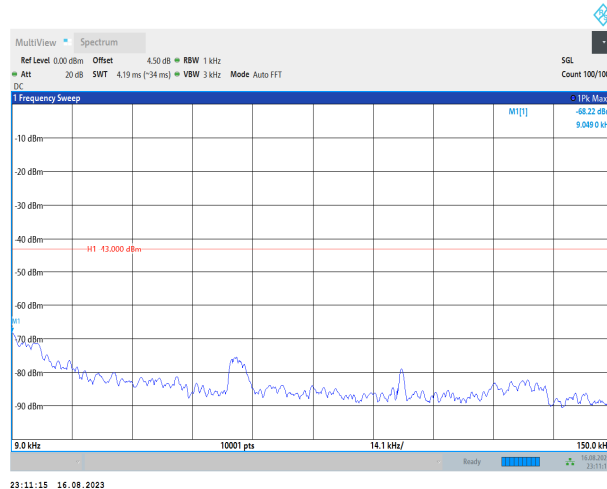
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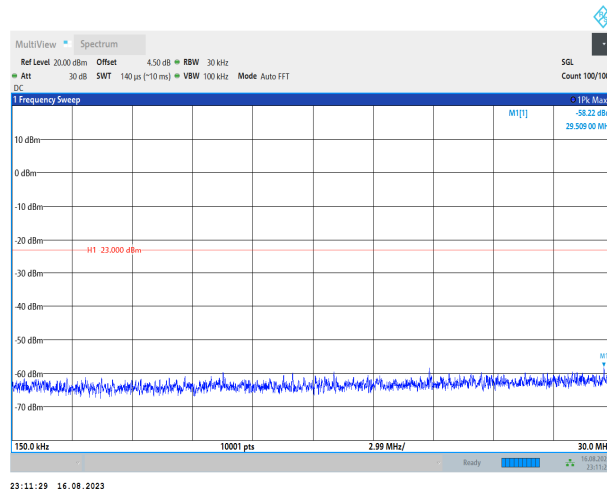
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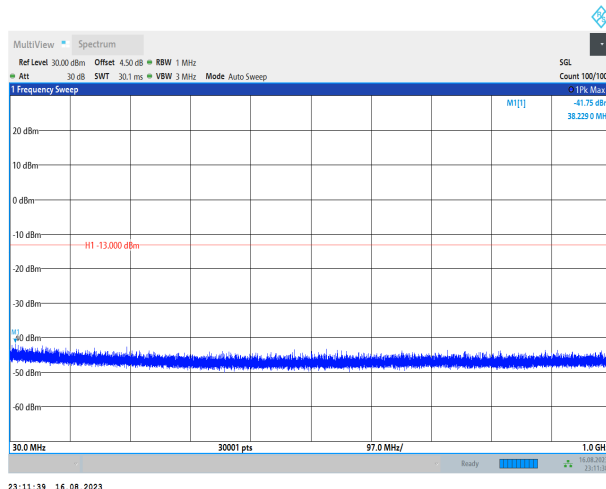
GSM1900-810-0.009~0.15MHz



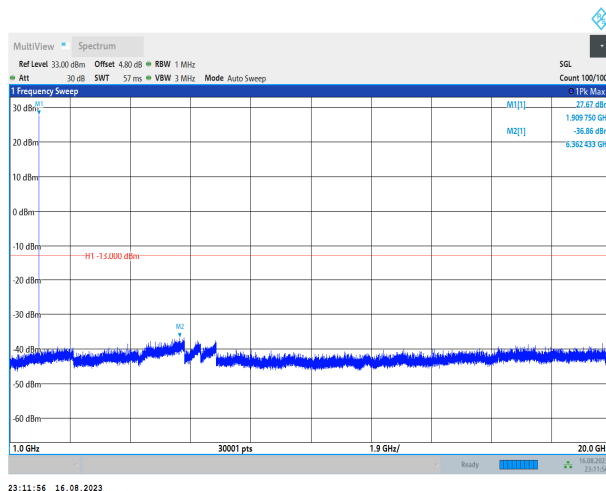
GSM1900-810-0.15~30MHz



GSM1900-810-30~1000MHz



GSM1900-810-1000~20000MHz



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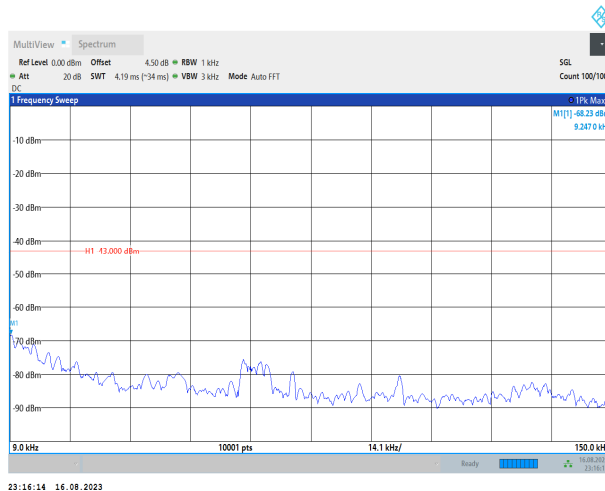
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Report No.: SEWM2309000395RG01

Rev.: 01

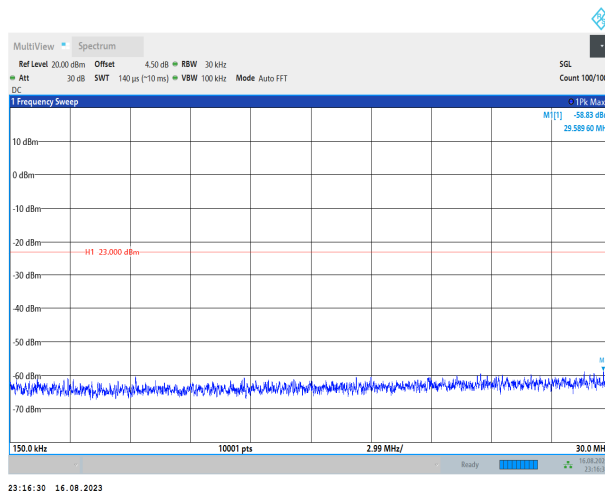
Page: 44 of 67

EGPRS1900-512-0.009~0.15MHz



23:16:14 16.08.2023

EGPRS1900-512-0.15~30MHz



23:16:30 16.08.2023



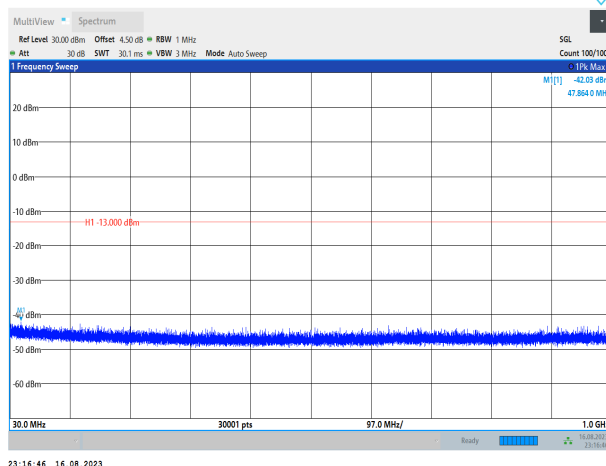
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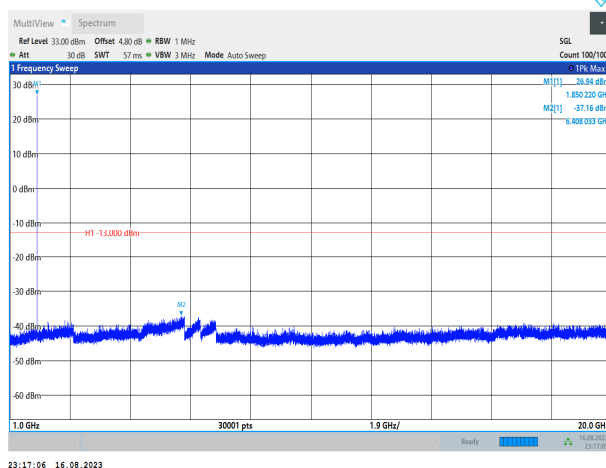
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EGPRS1900-512-30~1000MHz



EGPRS1900-512-1000~20000MHz



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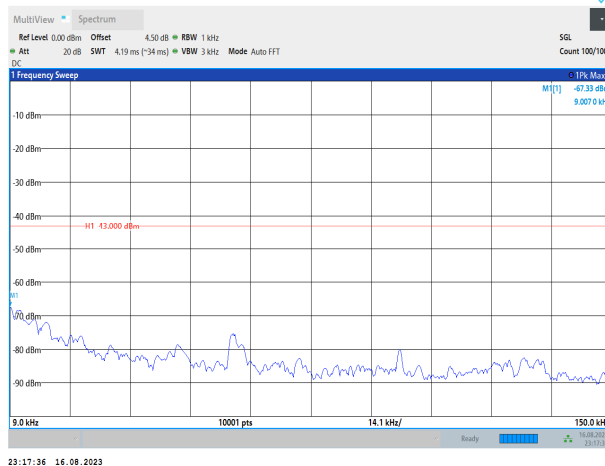
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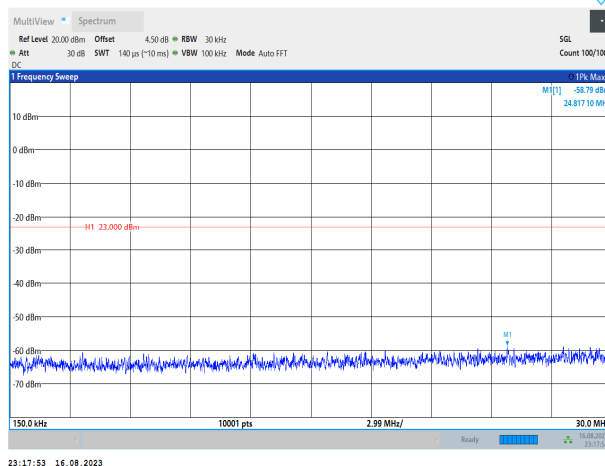
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EGPRS1900-661-0.009~0.15MHz



EGPRS1900-661-0.15~30MHz



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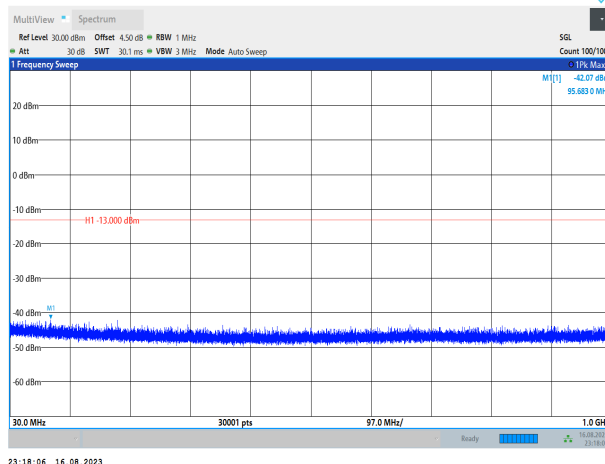
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Report No.: SEWM2309000395RG01

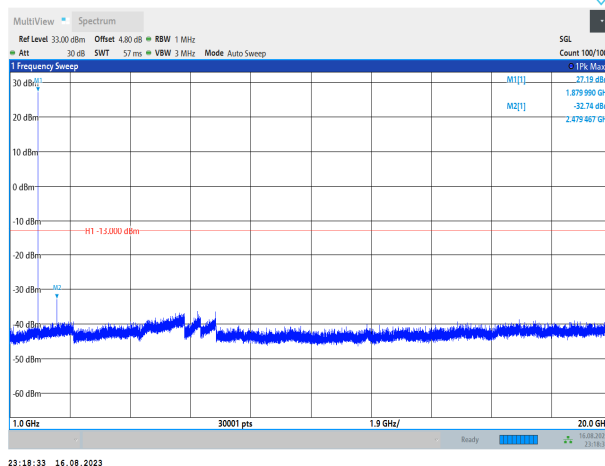
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EGPRS1900-661-30~1000MHz



EGPRS1900-661-1000~20000MHz



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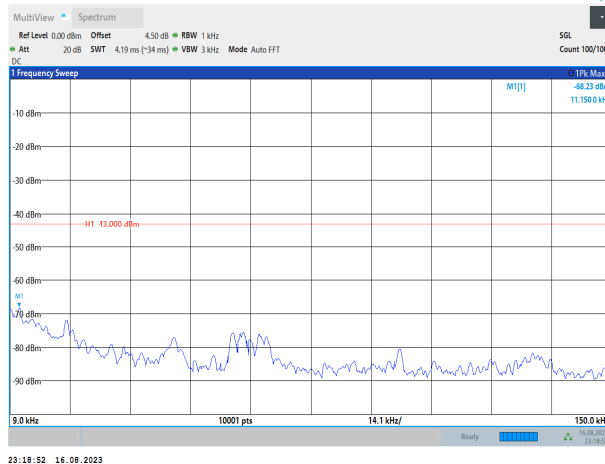
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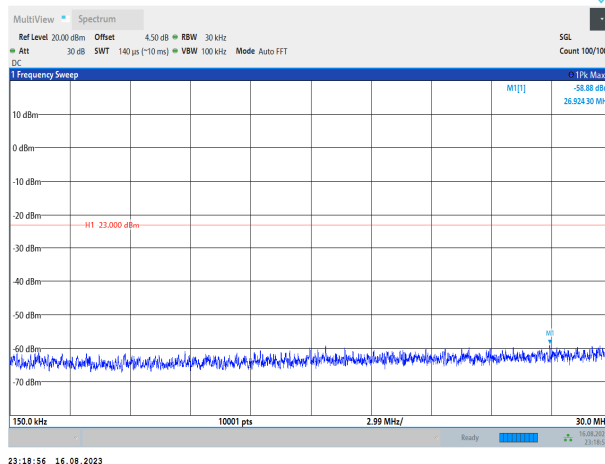
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Page: 48 of 67

EGPRS1900-810-0.009~0.15MHz



EGPRS1900-810-0.15~30MHz

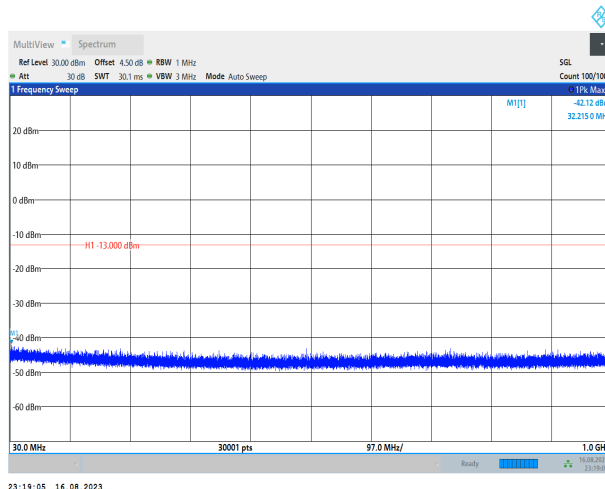


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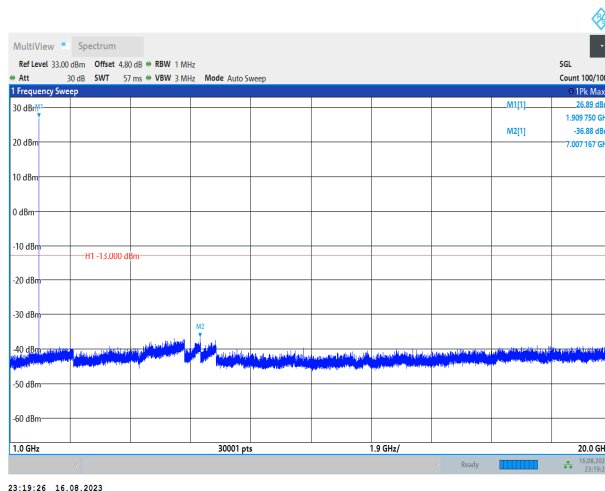
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EGPRS1900-810-30~1000MHz



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Field Strength of Spurious Radiation

Test Band = GSM850**Test Channel = Low ANT0**

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4000	64.54	-48.22	25.27	-53.67	-13.00	40.67	245	160	Horizontal
2	2472.5714	60.71	-47.32	27.22	-54.65	-13.00	41.65	163	190	Horizontal
3	3296.8000	42.68	-46.67	28.48	-70.77	-13.00	57.77	259	3	Horizontal
4	4121.0000	41.51	-45.91	29.39	-70.27	-13.00	57.27	174	290	Horizontal
5	4945.2000	41.56	-45.69	31.28	-68.10	-13.00	55.10	185	42	Horizontal
6	5769.4000	39.80	-44.63	32.65	-67.44	-13.00	54.44	153	318	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4000	57.55	-48.22	25.27	-60.66	-13.00	47.66	211	140	Vertical
2	2472.5714	60.11	-47.32	27.22	-55.25	-13.00	42.25	184	151	Vertical
3	3296.8000	42.54	-46.67	28.48	-70.91	-13.00	57.91	172	290	Vertical
4	4121.0000	41.18	-45.91	29.39	-70.60	-13.00	57.60	136	259	Vertical
5	4945.2000	41.94	-45.69	31.28	-67.72	-13.00	54.72	256	348	Vertical
6	5769.4000	40.04	-44.63	32.65	-67.20	-13.00	54.20	199	250	Vertical



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Test Band = GSM850

Test Channel = Mid ANT0

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8000	50.80	-48.19	25.31	-67.34	-13.00	54.34	248	250	Horizontal
2	2509.1429	64.42	-47.24	27.32	-50.76	-13.00	37.76	174	250	Horizontal
3	3345.6000	42.82	-46.62	28.51	-70.55	-13.00	57.55	186	360	Horizontal
4	4182.0000	41.22	-45.95	29.54	-70.45	-13.00	57.45	163	162	Horizontal
5	5018.4000	40.94	-45.73	31.45	-68.60	-13.00	55.60	256	42	Horizontal
6	5854.8000	40.48	-44.83	32.67	-66.94	-13.00	53.94	166	4	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8000	55.94	-48.19	25.31	-62.20	-13.00	49.20	142	13	Vertical
2	2509.1429	60.42	-47.24	27.32	-54.76	-13.00	41.76	163	229	Vertical
3	3345.6000	42.09	-46.62	28.51	-71.28	-13.00	58.28	259	199	Vertical
4	4182.0000	41.93	-45.95	29.54	-69.74	-13.00	56.74	184	240	Vertical
5	5018.4000	41.12	-45.73	31.45	-68.42	-13.00	55.42	175	240	Vertical
6	5854.8000	40.70	-44.83	32.67	-66.72	-13.00	53.72	211	299	Vertical



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Test Band = GSM850

Test Channel = High ANT0

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6000	66.64	-48.16	25.35	-51.44	-13.00	38.44	100	81	Horizontal
2	2546.2857	64.93	-47.11	27.39	-50.05	-13.00	37.05	100	248	Horizontal
3	3395.2000	41.66	-46.55	28.54	-71.61	-13.00	58.61	100	269	Horizontal
4	4244.0000	41.45	-45.88	29.69	-70.01	-13.00	57.01	100	111	Horizontal
5	5092.8000	40.83	-45.41	31.62	-68.22	-13.00	55.22	100	360	Horizontal
6	5941.6000	41.47	-44.74	32.69	-65.85	-13.00	52.85	100	121	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6000	61.75	-48.16	25.35	-56.33	-13.00	43.33	215	7	Vertical
2	2546.2857	62.66	-47.11	27.39	-52.32	-13.00	39.32	142	259	Vertical
3	3395.2000	41.99	-46.55	28.54	-71.28	-13.00	58.28	153	357	Vertical
4	4244.0000	41.92	-45.88	29.69	-69.54	-13.00	56.54	261	357	Vertical
5	5092.8000	41.18	-45.41	31.62	-67.87	-13.00	54.87	159	299	Vertical
6	5941.6000	40.57	-44.74	32.69	-66.75	-13.00	53.75	185	270	Vertical



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Test Band = GSM850

Test Channel = Low ANT1

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4000	65.09	-48.22	25.27	-53.12	-13.00	40.12	236	171	Horizontal
2	2472.5714	59.48	-47.32	27.22	-55.88	-13.00	42.88	251	201	Horizontal
3	3296.8000	42.90	-46.67	28.48	-70.55	-13.00	57.55	144	309	Horizontal
4	4121.0000	40.48	-45.91	29.39	-71.30	-13.00	58.30	156	360	Horizontal
5	4945.2000	41.74	-45.69	31.28	-67.92	-13.00	54.92	126	63	Horizontal
6	5769.4000	40.00	-44.63	32.65	-67.24	-13.00	54.24	291	23	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4000	55.20	-48.22	25.27	-63.01	-13.00	50.01	188	180	Vertical
2	2472.5714	55.41	-47.32	27.22	-59.95	-13.00	46.95	196	160	Vertical
3	3296.8000	42.39	-46.67	28.48	-71.06	-13.00	58.06	251	1	Vertical
4	4121.0000	41.26	-45.91	29.39	-70.52	-13.00	57.52	142	199	Vertical
5	4945.2000	41.68	-45.69	31.28	-67.98	-13.00	54.98	126	71	Vertical
6	5769.4000	40.05	-44.63	32.65	-67.19	-13.00	54.19	105	239	Vertical



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Test Band = GSM850

Test Channel = Mid ANT1

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8000	54.42	-48.19	25.31	-63.72	-13.00	50.72	166	131	Horizontal
2	2509.1429	62.33	-47.24	27.32	-52.85	-13.00	39.85	154	190	Horizontal
3	3345.6000	42.74	-46.62	28.51	-70.63	-13.00	57.63	177	260	Horizontal
4	4182.0000	41.32	-45.95	29.54	-70.35	-13.00	57.35	142	190	Horizontal
5	5018.4000	41.14	-45.73	31.45	-68.40	-13.00	55.40	133	51	Horizontal
6	5854.8000	40.39	-44.83	32.67	-67.03	-13.00	54.03	203	359	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8000	52.29	-48.19	25.31	-65.85	-13.00	52.85	188	70	Vertical
2	2509.1429	60.50	-47.24	27.32	-54.68	-13.00	41.68	144	159	Vertical
3	3345.6000	42.71	-46.62	28.51	-70.66	-13.00	57.66	146	130	Vertical
4	4182.0000	43.75	-45.95	29.54	-67.92	-13.00	54.92	152	200	Vertical
5	5018.4000	40.84	-45.73	31.45	-68.70	-13.00	55.70	145	21	Vertical
6	5854.8000	41.34	-44.83	32.67	-66.08	-13.00	53.08	192	120	Vertical



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Test Band = GSM850

Test Channel = High ANT1

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6000	64.83	-48.16	25.35	-53.25	-13.00	40.25	213	92	Horizontal
2	2546.4000	61.96	-47.11	27.39	-53.02	-13.00	40.02	261	190	Horizontal
3	3395.2000	41.59	-46.55	28.54	-71.68	-13.00	58.68	154	360	Horizontal
4	4244.0000	41.41	-45.88	29.69	-70.05	-13.00	57.05	186	82	Horizontal
5	5092.8000	41.19	-45.41	31.62	-67.86	-13.00	54.86	152	161	Horizontal
6	5941.6000	40.53	-44.74	32.69	-66.79	-13.00	53.79	188	248	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6000	62.07	-48.16	25.35	-56.01	-13.00	43.01	177	2	Vertical
2	2546.4000	61.59	-47.11	27.39	-53.39	-13.00	40.39	148	220	Vertical
3	3395.2000	41.73	-46.55	28.54	-71.54	-13.00	58.54	159	338	Vertical
4	4244.0000	43.72	-45.88	29.69	-67.74	-13.00	54.74	163	229	Vertical
5	5092.8000	40.47	-45.41	31.62	-68.58	-13.00	55.58	251	349	Vertical
6	5941.6000	40.71	-44.74	32.69	-66.61	-13.00	53.61	145	259	Vertical



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Test Band = GSM1900

Test Channel = Low ANT3

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3700.4000	41.03	-45.50	28.80	-70.93	-13.00	57.93	211	161	Horizontal
2	5550.6000	40.37	-45.15	32.61	-67.43	-13.00	54.43	154	319	Horizontal
3	7400.8000	39.54	-43.41	36.32	-62.80	-13.00	49.80	158	360	Horizontal
4	9251.0000	36.23	-40.23	36.78	-62.49	-13.00	49.49	169	206	Horizontal
5	11101.2000	33.73	-37.96	38.71	-60.78	-13.00	47.78	198	308	Horizontal
6	13698.75	33.61	-36.16	40.36	-57.45	-13.00	44.45	172	351	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3700.4000	39.77	-45.50	28.80	-72.19	-13.00	59.19	236	245	Vertical
2	5550.6000	40.57	-45.15	32.61	-67.23	-13.00	54.23	251	29	Vertical
3	7400.8000	39.24	-43.41	36.32	-63.10	-13.00	50.10	145	324	Vertical
4	9251.0000	35.76	-40.23	36.78	-62.96	-13.00	49.96	186	120	Vertical
5	11101.2000	32.93	-37.96	38.71	-61.58	-13.00	48.58	251	76	Vertical
6	14445	32.54	-34.82	41.08	-56.46	-13.00	43.46	125	0	Vertical



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Test Band = GSM1900

Test Channel = Mid ANT3

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760.0000	40.75	-45.75	28.86	-71.40	-13.00	58.40	186	115	Horizontal
2	5640.0000	39.06	-44.98	32.63	-68.55	-13.00	55.55	254	273	Horizontal
3	7520.0000	38.28	-43.10	36.61	-63.47	-13.00	50.47	126	205	Horizontal
4	9400.0000	35.29	-39.83	37.06	-62.74	-13.00	49.74	136	360	Horizontal
5	11280.0000	33.49	-37.41	38.73	-60.46	-13.00	47.46	259	161	Horizontal
6	13634.25	32.25	-36.11	40.24	-58.88	-13.00	45.88	144	103	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760.0000	40.67	-45.75	28.86	-71.48	-13.00	58.48	177	0	Vertical
2	5640.0000	39.96	-44.98	32.63	-67.65	-13.00	54.65	142	120	Vertical
3	7520.0000	38.25	-43.10	36.61	-63.50	-13.00	50.50	155	73	Vertical
4	9400.0000	35.27	-39.83	37.06	-62.76	-13.00	49.76	261	310	Vertical
5	11280.0000	33.31	-37.41	38.73	-60.64	-13.00	47.64	199	244	Vertical
6	14885.25	32.31	-34.78	41.25	-56.47	-13.00	43.47	154	187	Vertical



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Test Band = GSM1900
Test Channel = High ANT3

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3819.6000	41.09	-45.99	28.92	-71.24	-13.00	58.24	156	329	Horizontal
2	5223	41.27	-45.24	31.94	-67.29	-13.00	54.29	231	360	Horizontal
3	7639.2000	37.52	-43.01	36.66	-64.09	-13.00	51.09	148	137	Horizontal
4	9549.0000	34.81	-39.96	37.34	-63.06	-13.00	50.06	175	295	Horizontal
5	11458.8000	32.47	-37.33	38.75	-61.38	-13.00	48.38	199	360	Horizontal
6	13468.5	33.17	-36.80	39.94	-58.94	-13.00	45.94	163	4	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3819.6000	40.60	-45.99	28.92	-71.73	-13.00	58.73	255	18	Vertical
2	4924.5	42.36	-45.56	31.23	-67.22	-13.00	54.22	188	51	Vertical
3	7639.2000	38.00	-43.01	36.66	-63.61	-13.00	50.61	178	345	Vertical
4	9549.0000	33.90	-39.96	37.34	-63.97	-13.00	50.97	189	85	Vertical
5	11458.8000	32.24	-37.33	38.75	-61.61	-13.00	48.61	163	232	Vertical
6	14498.25	31.91	-34.84	41.10	-57.09	-13.00	44.09	251	301	Vertical



Test Band = GSM1900

Test Channel = Low ANT4

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3700.4000	40.29	-45.50	28.80	-71.67	-13.00	58.67	244	301	Horizontal
2	4572.75	41.66	-45.68	30.46	-68.82	-13.00	55.82	156	357	Horizontal
3	5550.6000	40.24	-45.15	32.61	-67.56	-13.00	54.56	231	316	Horizontal
4	7400.8000	39.44	-43.41	36.32	-62.90	-13.00	49.90	168	60	Horizontal
5	9251.0000	35.51	-40.23	36.78	-63.21	-13.00	50.21	172	301	Horizontal
6	11101.2000	32.70	-37.96	38.71	-61.81	-13.00	48.81	186	285	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3700.4000	40.05	-45.50	28.80	-71.91	-13.00	58.91	211	2	Vertical
2	4928.25	42.31	-45.56	31.24	-67.27	-13.00	54.27	145	209	Vertical
3	5550.6000	40.97	-45.15	32.61	-66.83	-13.00	53.83	163	181	Vertical
4	7400.8000	40.09	-43.41	36.32	-62.25	-13.00	49.25	256	357	Vertical
5	9251.0000	35.68	-40.23	36.78	-63.04	-13.00	50.04	191	209	Vertical
6	11101.2000	32.53	-37.96	38.71	-61.98	-13.00	48.98	172	286	Vertical



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Report No.: SEWM2309000395RG01
Rev.: 01
Page: 60 of 67

Test Band = GSM1900
Test Channel = Mid ANT4

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760.0000	40.95	-45.75	28.86	-71.20	-13.00	58.20	244	353	Horizontal
2	4923	42.68	-45.56	31.23	-66.90	-13.00	53.90	152	359	Horizontal
3	5640.0000	39.62	-44.98	32.63	-67.99	-13.00	54.99	165	14	Horizontal
4	7520.0000	38.37	-43.10	36.61	-63.38	-13.00	50.38	185	121	Horizontal
5	9400.0000	34.93	-39.83	37.06	-63.10	-13.00	50.10	124	270	Horizontal
6	11280.0000	32.66	-37.41	38.73	-61.29	-13.00	48.29	173	330	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760.0000	40.75	-45.75	28.86	-71.40	-13.00	58.40	254	2	Vertical
2	4582.5	42.38	-45.68	30.48	-68.08	-13.00	55.08	153	165	Vertical
3	5640.0000	38.84	-44.98	32.63	-68.77	-13.00	55.77	261	344	Vertical
4	7520.0000	38.50	-43.10	36.61	-63.25	-13.00	50.25	158	0	Vertical
5	9400.0000	35.38	-39.83	37.06	-62.65	-13.00	49.65	196	226	Vertical
6	11280.0000	32.86	-37.41	38.73	-61.09	-13.00	48.09	153	357	Vertical



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Test Band = GSM1900
Test Channel = High ANT4

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3819.6000	40.66	-45.99	28.92	-71.67	-13.00	58.67	266	342	Horizontal
2	5079.75	41.03	-45.42	31.59	-68.06	-13.00	55.06	142	104	Horizontal
3	6486.75	40.93	-44.58	34.26	-64.66	-13.00	51.66	185	225	Horizontal
4	7639.2000	38.51	-43.01	36.66	-63.10	-13.00	50.10	146	286	Horizontal
5	9549.0000	34.58	-39.96	37.34	-63.29	-13.00	50.29	172	30	Horizontal
6	11458.8000	32.04	-37.33	38.75	-61.81	-13.00	48.81	159	240	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3819.6000	41.11	-45.99	28.92	-71.22	-13.00	58.22	126	242	Vertical
2	4928.25	42.25	-45.56	31.24	-67.33	-13.00	54.33	145	317	Vertical
3	6539.25	40.49	-44.51	34.37	-64.91	-13.00	51.91	175	1	Vertical
4	7639.2000	38.24	-43.01	36.66	-63.37	-13.00	50.37	142	230	Vertical
5	9549.0000	33.97	-39.96	37.34	-63.90	-13.00	50.90	153	123	Vertical
6	11458.8000	32.36	-37.33	38.75	-61.49	-13.00	48.49	261	0	Vertical



**Test on the worst case:****Test Band = GSM1900_ TM1****Test Channel = Low ANT3**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.4000	39.49	-45.50	28.80	-72.47	-13.00	59.47	Horizontal
2	5550.6000	39.93	-45.15	32.61	-67.87	-13.00	54.87	Horizontal
3	7400.8000	37.37	-43.41	36.32	-64.97	-13.00	51.97	Horizontal
4	9251.0000	30.82	-40.23	36.78	-67.90	-13.00	54.90	Horizontal
5	11101.2000	26.34	-37.96	38.71	-68.17	-13.00	55.17	Horizontal
6	13770.75	26.53	-36.33	40.49	-64.57	-13.00	51.57	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.4000	40.15	-45.50	28.80	-71.81	-13.00	58.81	Vertical
2	5550.6000	39.48	-45.15	32.61	-68.32	-13.00	55.32	Vertical
3	7400.8000	37.05	-43.41	36.32	-65.29	-13.00	52.29	Vertical
4	9251.0000	30.58	-40.23	36.78	-68.14	-13.00	55.14	Vertical
5	11101.2000	26.00	-37.96	38.71	-68.51	-13.00	55.51	Vertical
6	13878	26.40	-35.66	40.68	-63.84	-13.00	50.84	Vertical



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Test Band = GSM1900_TM1

Test Channel = Mid ANT3

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760.0000	40.18	-45.75	28.86	-71.97	-13.00	58.97	Horizontal
2	5640.0000	37.76	-44.98	32.63	-69.85	-13.00	56.85	Horizontal
3	7520.0000	37.37	-43.10	36.61	-64.38	-13.00	51.38	Horizontal
4	9400.0000	31.83	-39.83	37.06	-66.20	-13.00	53.20	Horizontal
5	11280.0000	27.53	-37.41	38.73	-66.42	-13.00	53.42	Horizontal
6	13717.5	26.84	-36.20	40.39	-64.23	-13.00	51.23	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760.0000	40.21	-45.75	28.86	-71.94	-13.00	58.94	Vertical
2	5640.0000	38.47	-44.98	32.63	-69.14	-13.00	56.14	Vertical
3	7520.0000	37.27	-43.10	36.61	-64.48	-13.00	51.48	Vertical
4	9400.0000	32.04	-39.83	37.06	-65.99	-13.00	52.99	Vertical
5	11280.0000	28.03	-37.41	38.73	-65.92	-13.00	52.92	Vertical
6	13836.75	26.96	-36.05	40.61	-63.74	-13.00	50.74	Vertical



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Test Band = GSM1900_ TM1
Test Channel = High ANT3

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819.6000	39.45	-45.99	28.92	-72.88	-13.00	59.88	Horizontal
2	5405.25	40.21	-45.30	32.37	-67.97	-13.00	54.97	Horizontal
3	7639.2000	36.89	-43.01	36.66	-64.72	-13.00	51.72	Horizontal
4	9549.0000	32.09	-39.96	37.34	-65.78	-13.00	52.78	Horizontal
5	11458.8000	26.89	-37.33	38.75	-66.96	-13.00	53.96	Horizontal
6	13654.5	26.54	-36.12	40.28	-64.57	-13.00	51.57	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819.6000	39.59	-45.99	28.92	-72.74	-13.00	59.74	Vertical
2	4872	41.12	-45.53	31.12	-68.55	-13.00	55.55	Vertical
3	7639.2000	37.14	-43.01	36.66	-64.47	-13.00	51.47	Vertical
4	9549.0000	32.15	-39.96	37.34	-65.72	-13.00	52.72	Vertical
5	11458.8000	27.70	-37.33	38.75	-66.15	-13.00	53.15	Vertical
6	12824.25	27.08	-36.90	39.05	-66.03	-13.00	53.03	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



Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	VL	NT	34.77	0.041561	±2.5	PASS
GSM850	190	VN	NT	4.26	0.005092	±2.5	PASS
GSM850	190	VH	NT	62.41	0.074600	±2.5	PASS
EGPRS850	190	VL	NT	31.12	0.037198	±2.5	PASS
EGPRS850	190	VN	NT	26.83	0.032070	±2.5	PASS
EGPRS850	190	VH	NT	47.52	0.056801	±2.5	PASS

Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	VL	NT	15.85	0.008431	PASS
GSM1900	661	VN	NT	-4.94	-0.002628	PASS
GSM1900	661	VH	NT	0.32	0.000170	PASS
EGPRS1900	661	VL	NT	4.29	0.002282	PASS
EGPRS1900	661	VN	NT	-31.93	-0.016984	PASS
EGPRS1900	661	VH	NT	-13.72	-0.007298	PASS





Report No.: SEWM2309000395RG01

Rev.: 01

Page: 66 of 67

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	18.02	0.021540	±2.5	PASS
GSM850	190	NV	-20	35.74	0.042721	±2.5	PASS
GSM850	190	NV	-10	64.31	0.076871	±2.5	PASS
GSM850	190	NV	0	-26.02	-0.031102	±2.5	PASS
GSM850	190	NV	10	-36.26	-0.043342	±2.5	PASS
GSM850	190	NV	20	-36.10	-0.043151	±2.5	PASS
GSM850	190	NV	30	-12.30	-0.014702	±2.5	PASS
GSM850	190	NV	40	6.33	0.007566	±2.5	PASS
GSM850	190	NV	50	33.55	0.040103	±2.5	PASS
EGPRS850	190	NV	-30	6.78	0.008104	±2.5	PASS
EGPRS850	190	NV	-20	7.17	0.008570	±2.5	PASS
EGPRS850	190	NV	-10	26.93	0.032190	±2.5	PASS
EGPRS850	190	NV	0	40.20	0.048052	±2.5	PASS
EGPRS850	190	NV	10	7.46	0.008917	±2.5	PASS
EGPRS850	190	NV	20	32.19	0.038477	±2.5	PASS
EGPRS850	190	NV	30	-20.50	-0.024504	±2.5	PASS
EGPRS850	190	NV	40	8.20	0.009802	±2.5	PASS
EGPRS850	190	NV	50	38.23	0.045697	±2.5	PASS



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Report No.: SEWM2309000395RG01

Rev.: 01

Page: 67 of 67

Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	NV	-30	-62.05	-0.033005	PASS
GSM1900	661	NV	-20	-65.09	-0.034622	PASS
GSM1900	661	NV	-10	-1.32	-0.000702	PASS
GSM1900	661	NV	0	-6.13	-0.003261	PASS
GSM1900	661	NV	10	22.02	0.011713	PASS
GSM1900	661	NV	20	79.36	0.042213	PASS
GSM1900	661	NV	30	66.99	0.035633	PASS
GSM1900	661	NV	40	-53.08	-0.028234	PASS
GSM1900	661	NV	50	-9.23	-0.004910	PASS
EGPRS1900	661	NV	-30	6.10	0.003245	PASS
EGPRS1900	661	NV	-20	12.53	0.006665	PASS
EGPRS1900	661	NV	-10	38.71	0.020590	PASS
EGPRS1900	661	NV	0	18.34	0.009755	PASS
EGPRS1900	661	NV	10	46.88	0.024936	PASS
EGPRS1900	661	NV	20	35.51	0.018888	PASS
EGPRS1900	661	NV	30	91.56	0.048702	PASS
EGPRS1900	661	NV	40	40.91	0.021761	PASS
EGPRS1900	661	NV	50	18.18	0.009670	PASS

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