

Report No.: SEWM2309000347RG01

Rev.: 01

Page: 1 of 57

Appendix B.1

GSM 850&1900



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT41

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
GSM850	128	32.91	26.26	38.45	PASS
GSM850	190	32.99	26.34	38.45	PASS
GSM850	251	32.87	26.22	38.45	PASS

ANT14

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	29.63	26.77	33.00	PASS
GSM1900	661	29.86	27.00	33.00	PASS
GSM1900	810	29.94	27.08	33.00	PASS



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Band	Channel	Slot	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	27.25	20.6	38.45	PASS
EGPRS850	128	2	25.28	18.63	38.45	PASS
EGPRS850	128	3	23.26	16.61	38.45	PASS
EGPRS850	128	4	21.81	15.16	38.45	PASS
EGPRS850	190	1	27.45	20.8	38.45	PASS
EGPRS850	190	2	25.41	18.76	38.45	PASS
EGPRS850	190	3	23.52	16.87	38.45	PASS
EGPRS850	190	4	21.98	15.33	38.45	PASS
EGPRS850	251	1	27.24	20.59	38.45	PASS
EGPRS850	251	2	25.32	18.67	38.45	PASS
EGPRS850	251	3	23.42	16.77	38.45	PASS
EGPRS850	251	4	21.81	15.16	38.45	PASS
Band	Channel	Slot	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	26.02	23.16	33.00	PASS
EGPRS1900	512	2	24.07	21.21	33.00	PASS
EGPRS1900	512	3	22.15	19.29	33.00	PASS
EGPRS1900	512	4	20.71	17.85	33.00	PASS
EGPRS1900	661	1	26.09	23.23	33.00	PASS
EGPRS1900	661	2	24.14	21.28	33.00	PASS
EGPRS1900	661	3	22.16	19.30	33.00	PASS
EGPRS1900	661	4	20.66	17.80	33.00	PASS
EGPRS1900	810	1	26.13	23.27	33.00	PASS
EGPRS1900	810	2	24.19	21.33	33.00	PASS
EGPRS1900	810	3	22.25	19.39	33.00	PASS
EGPRS1900	810	4	20.66	17.80	33.00	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	9.84	13	PASS
GSM850	190	9.84	13	PASS
GSM850	251	9.86	13	PASS
EGPRS850	128	12.82	13	PASS
EGPRS850	190	12.78	13	PASS
EGPRS850	251	12.76	13	PASS
GSM1900	512	9.6	13	PASS
GSM1900	661	9.6	13	PASS
GSM1900	810	9.6	13	PASS
EGPRS1900	512	12.58	13	PASS
EGPRS1900	661	12.48	13	PASS
EGPRS1900	810	12.46	13	PASS



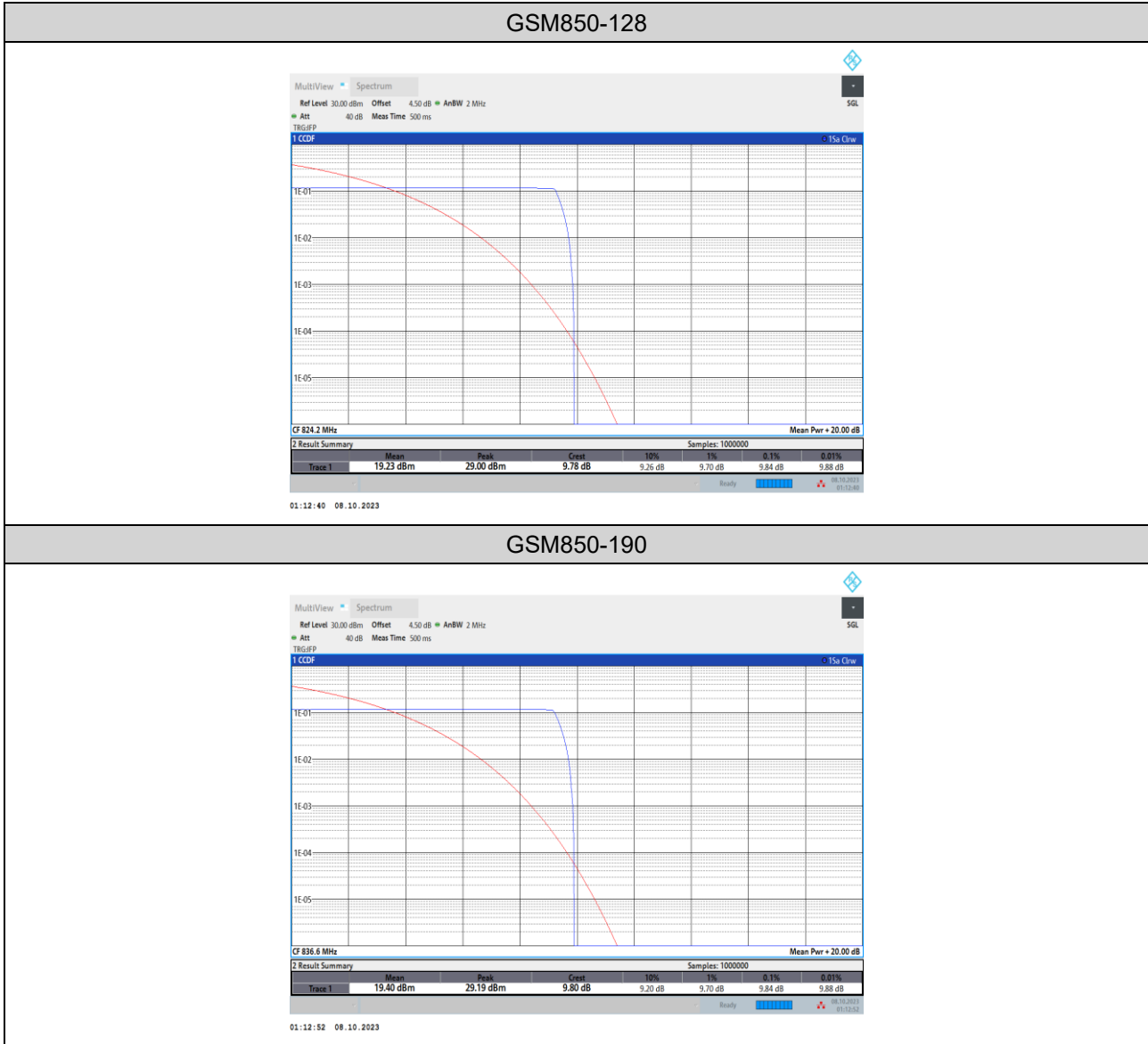
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Test Graphs

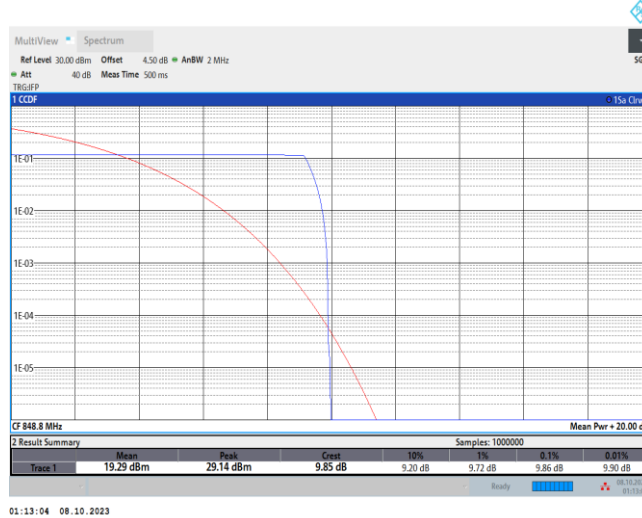


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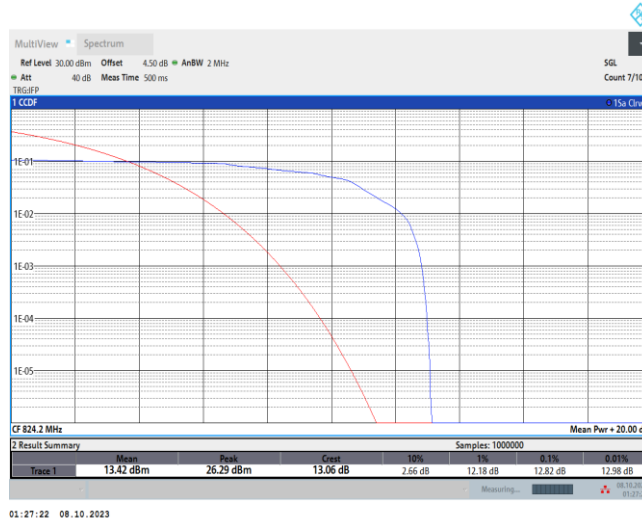
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GSM850-251



EGPRS850-128

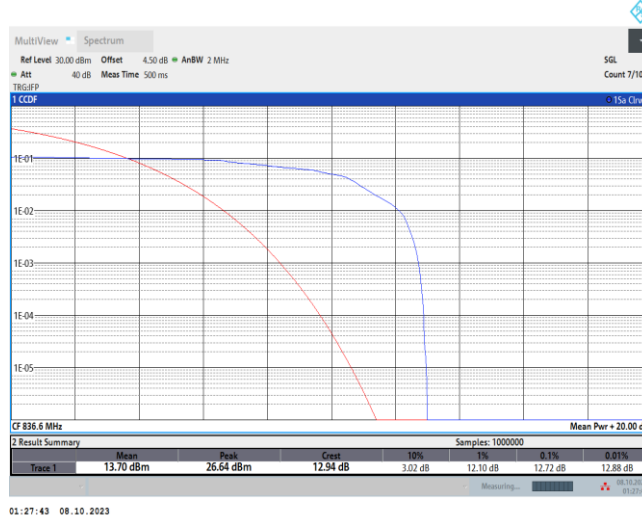


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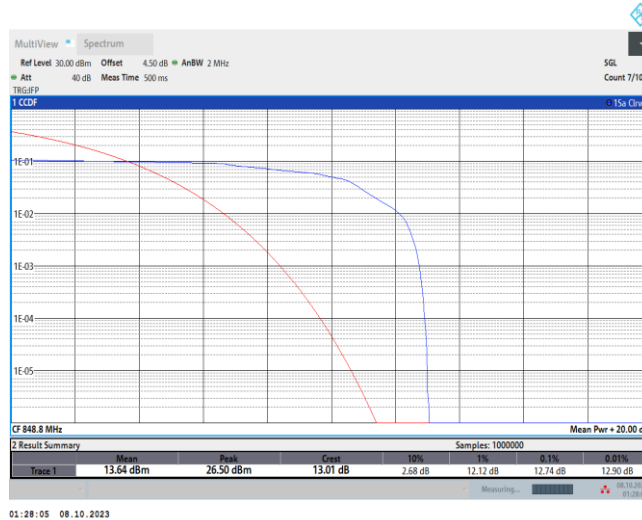
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EGPRS850-190



EGPRS850-251

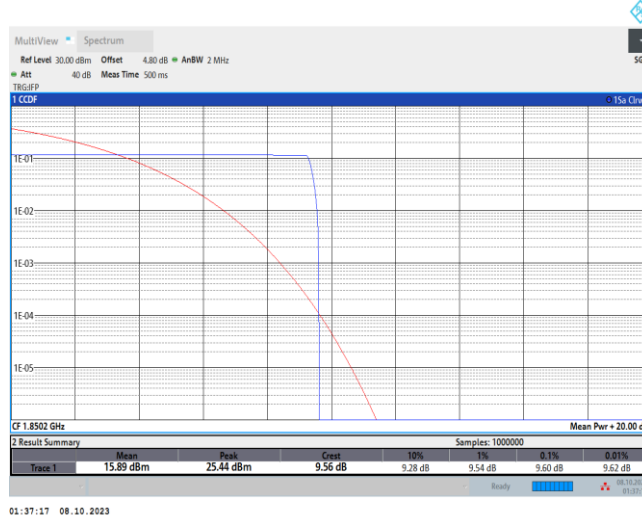


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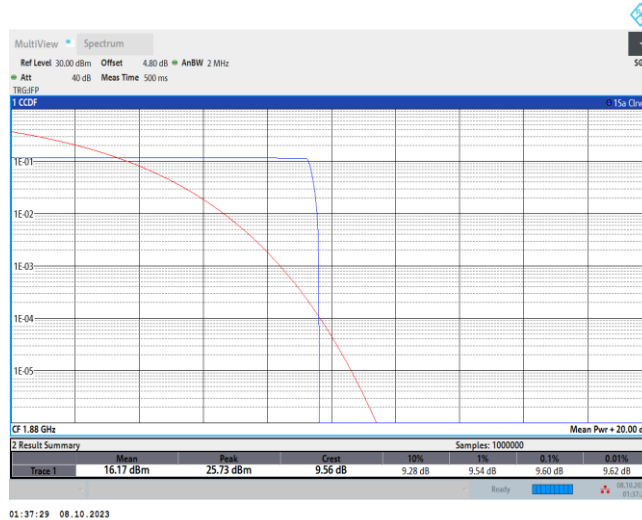
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GSM1900-512



GSM1900-661

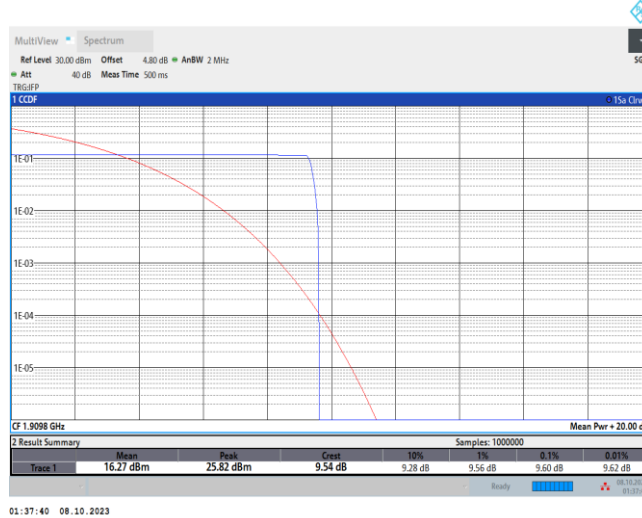


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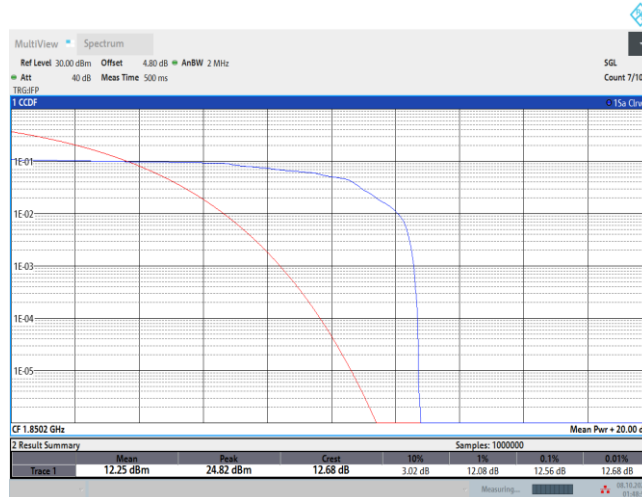
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GSM1900-810



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EGPRS1900-512



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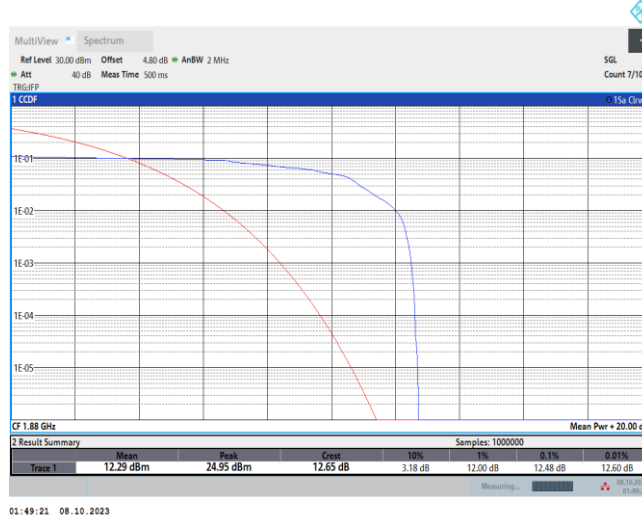


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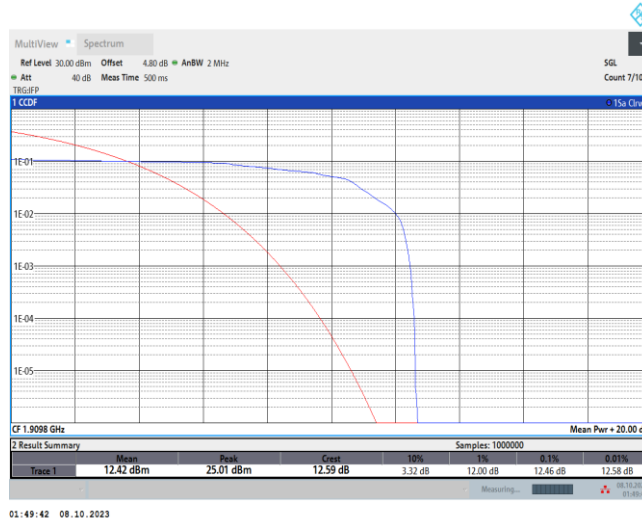
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EGPRS1900-661



EGPRS1900-810



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26dB Bandwidth and Occupied Bandwidth

Test Result

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



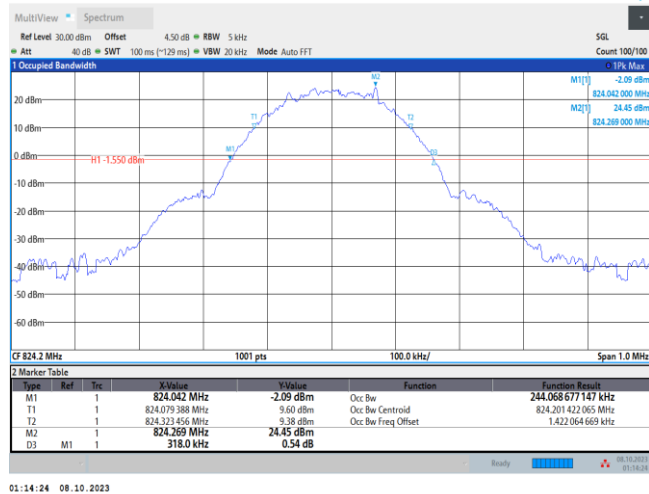
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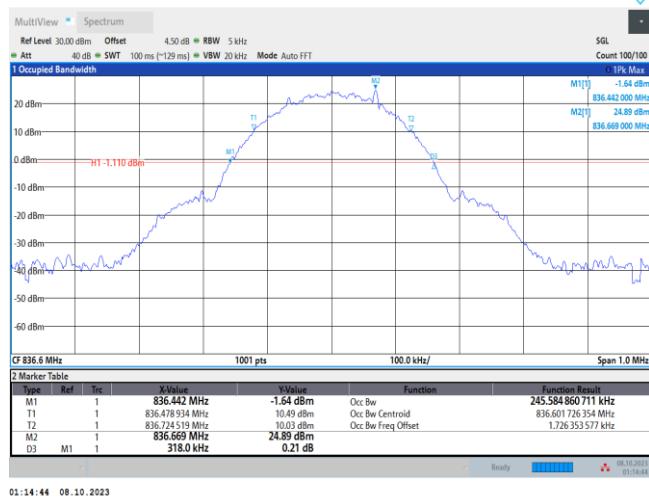
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Test Graphs

GSM850-128



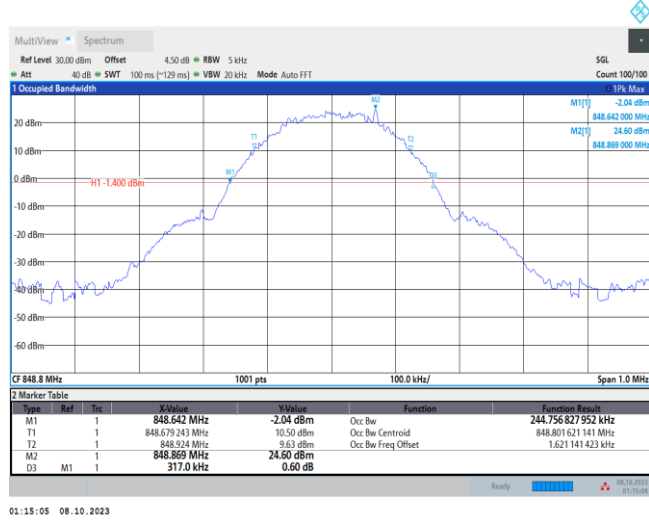
GSM850-190



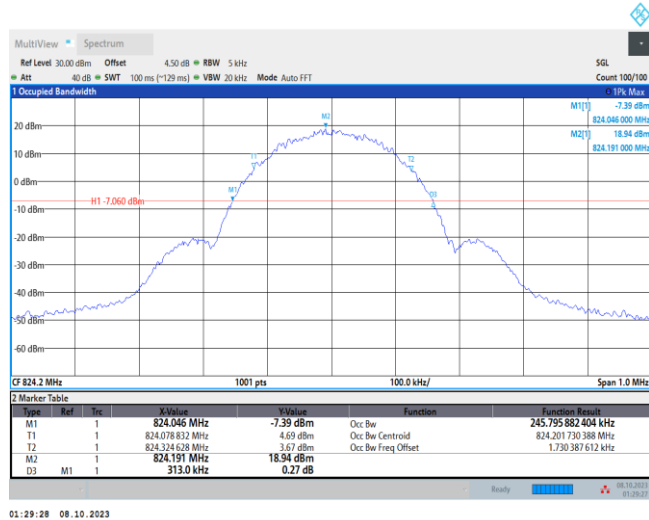
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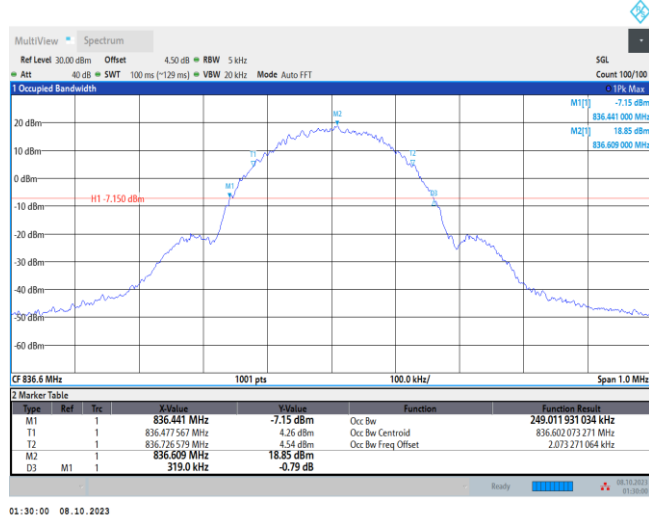
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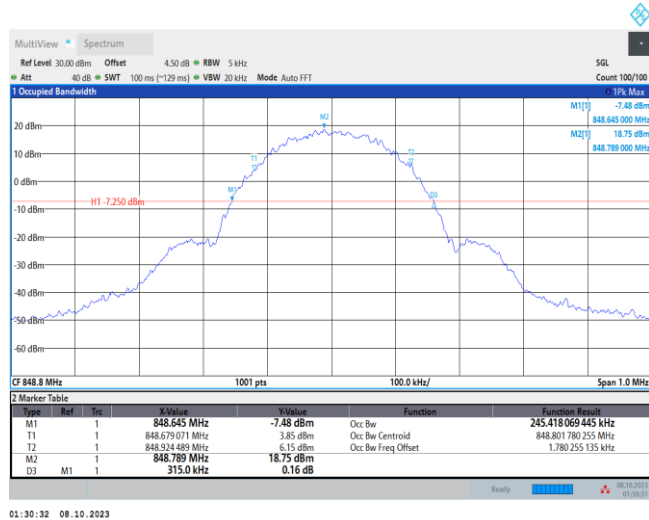
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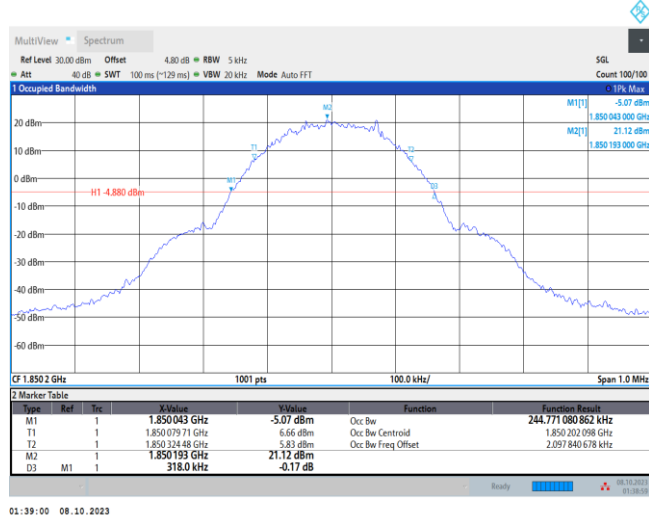
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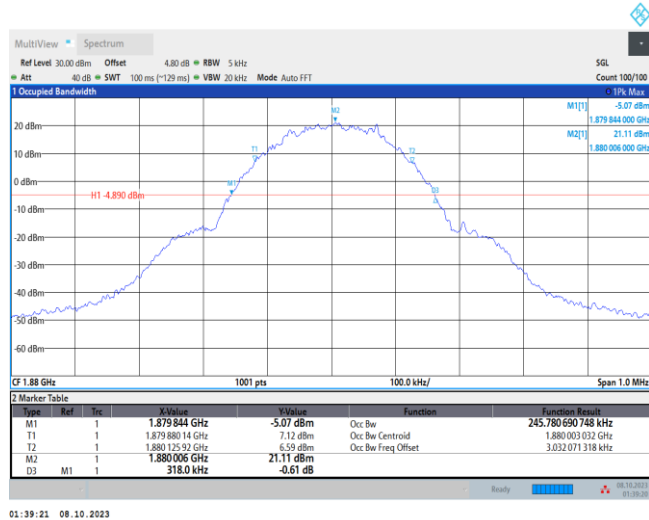
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GSM1900-512



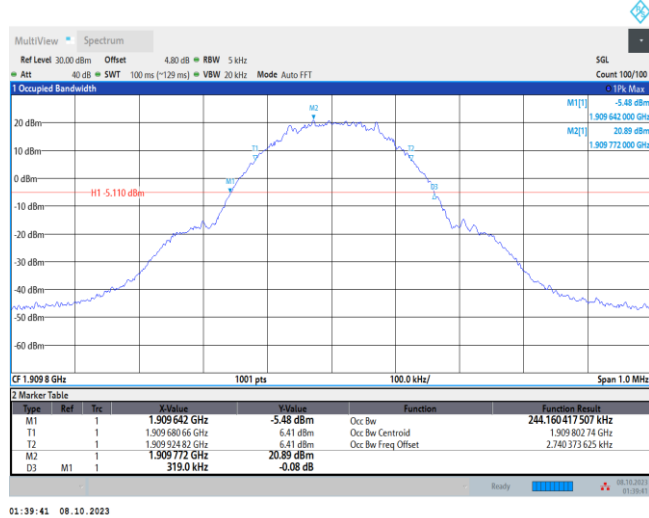
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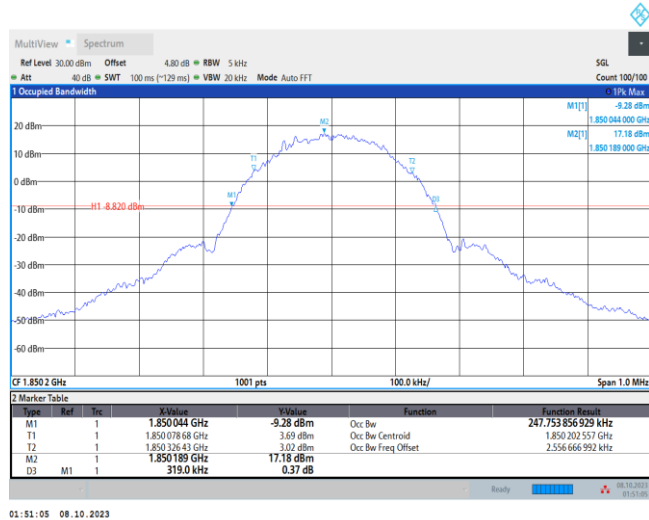
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GSM1900-810



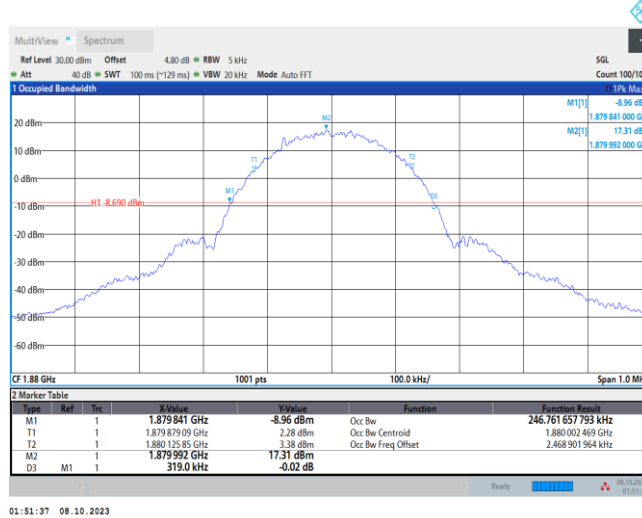
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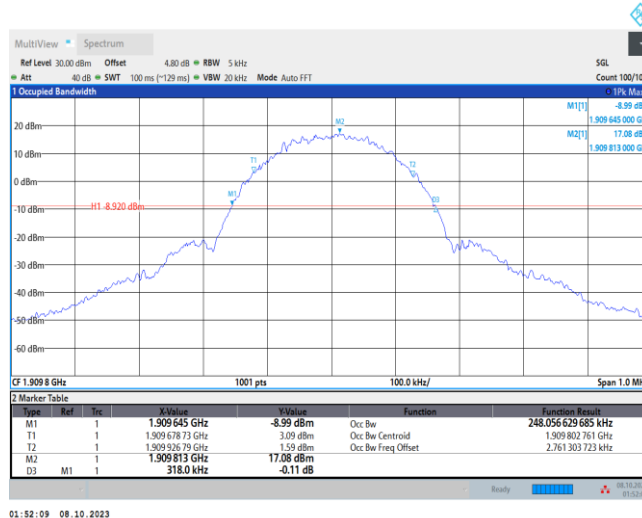
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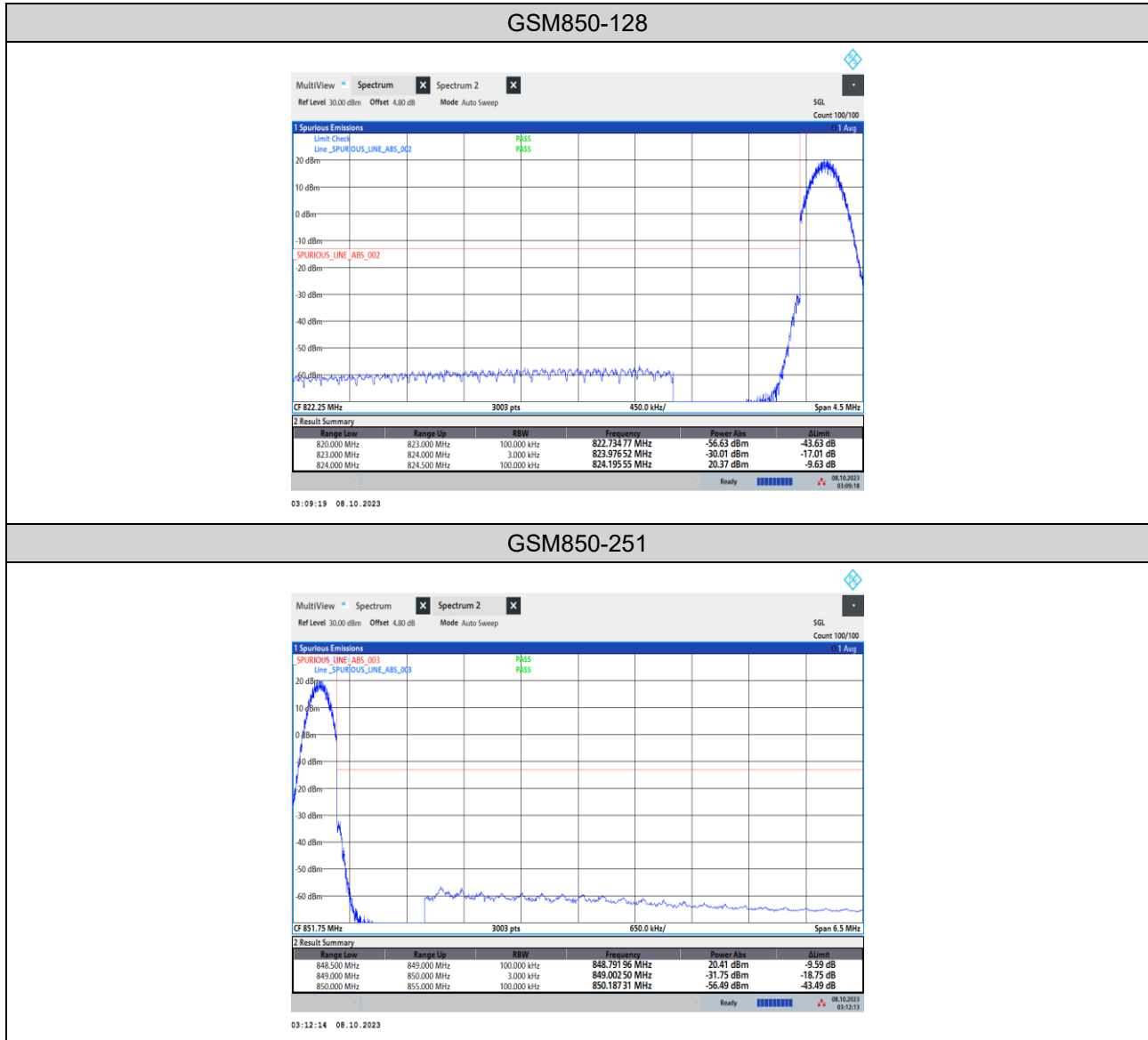
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Band Edge

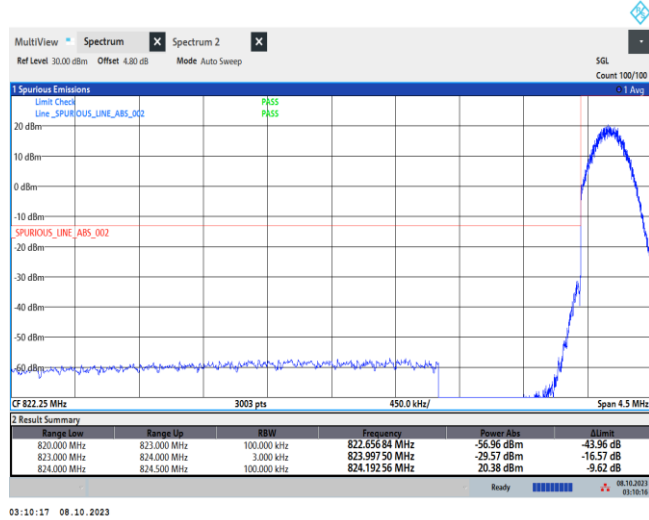
Test Graphs



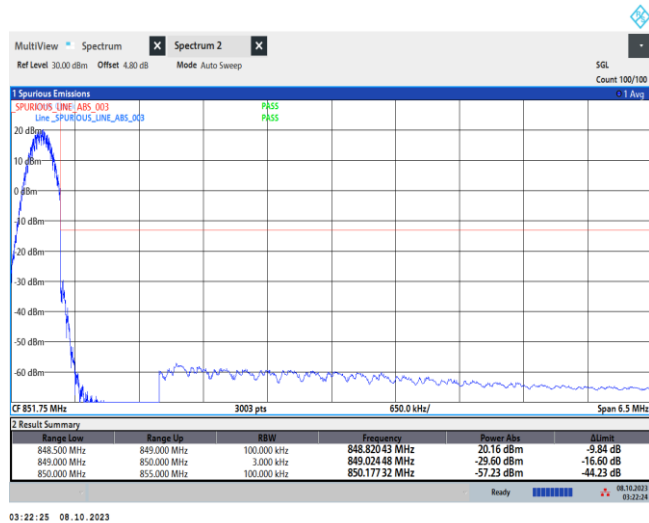
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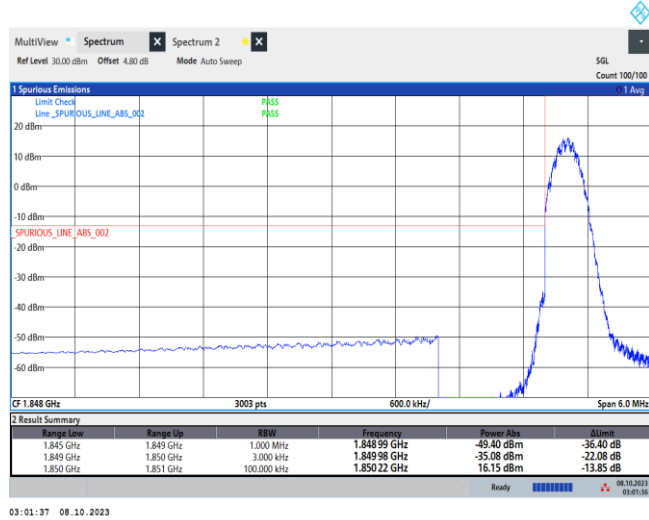
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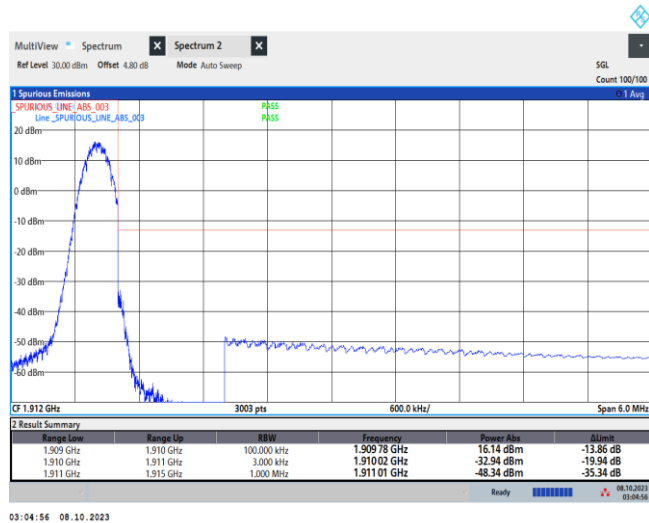
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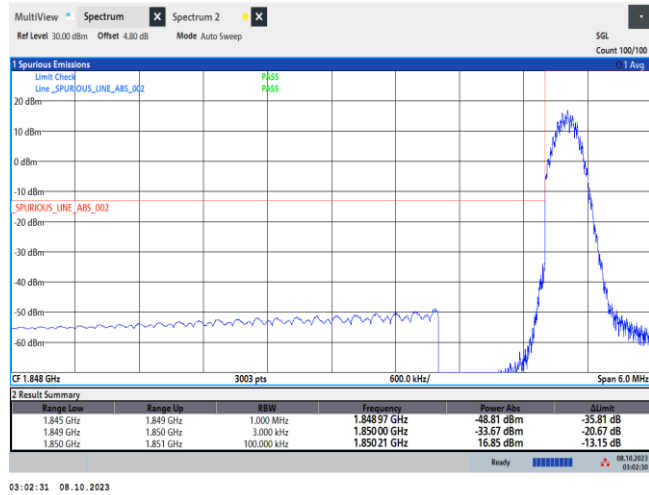
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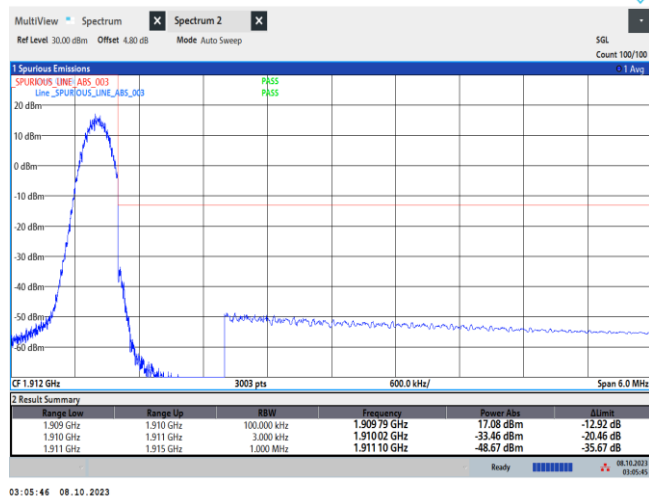
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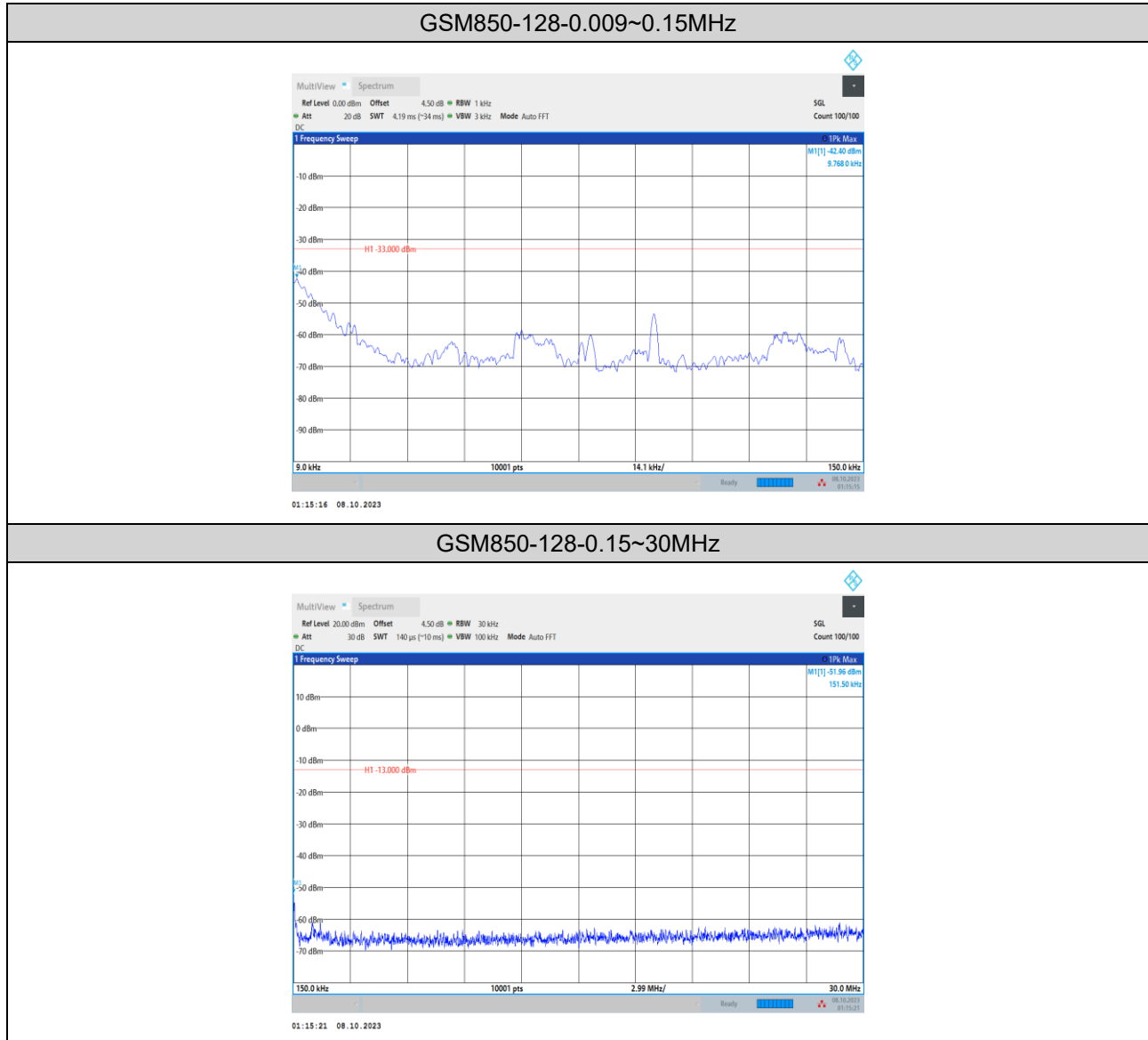


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Conducted Spurious Emission

Test Graphs

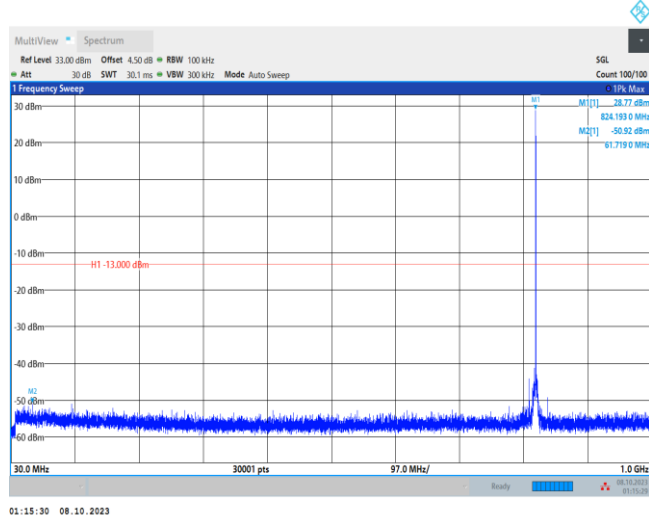


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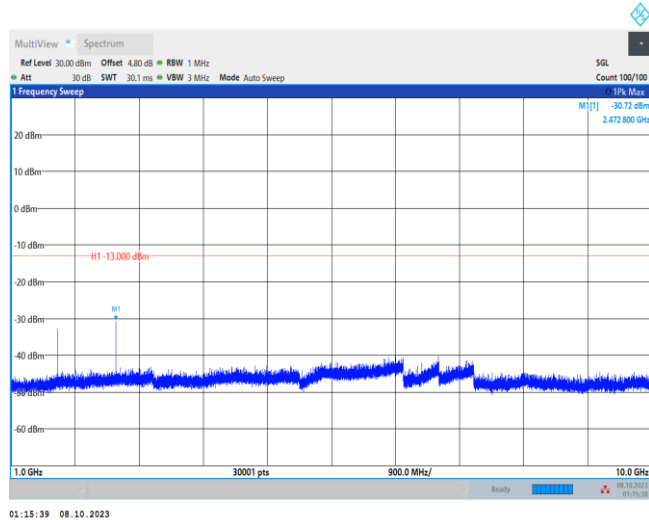
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GSM850-128-30~1000MHz



GSM850-128-1000~10000MHz

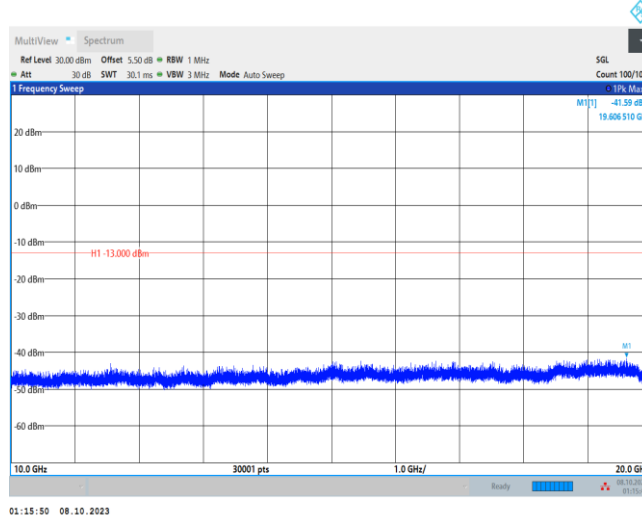


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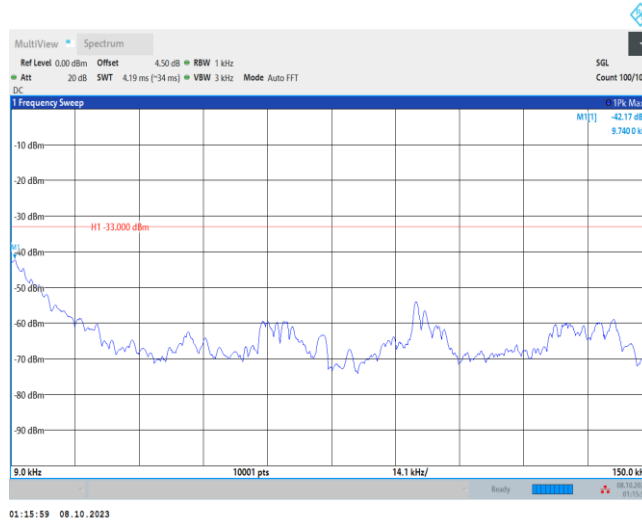
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GSM850-128-10000~20000MHz



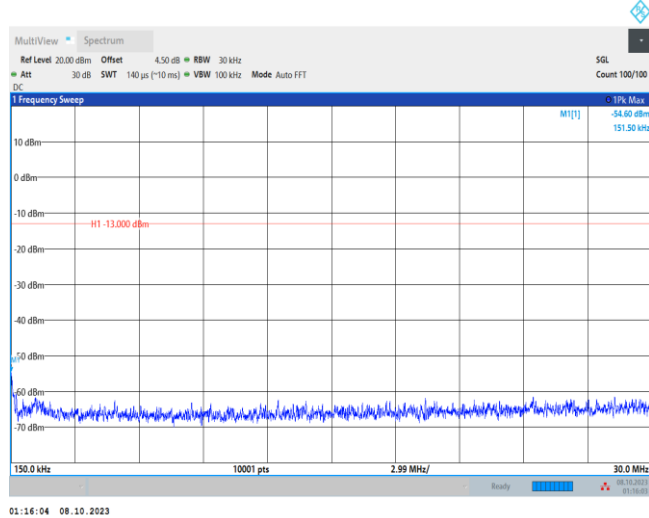
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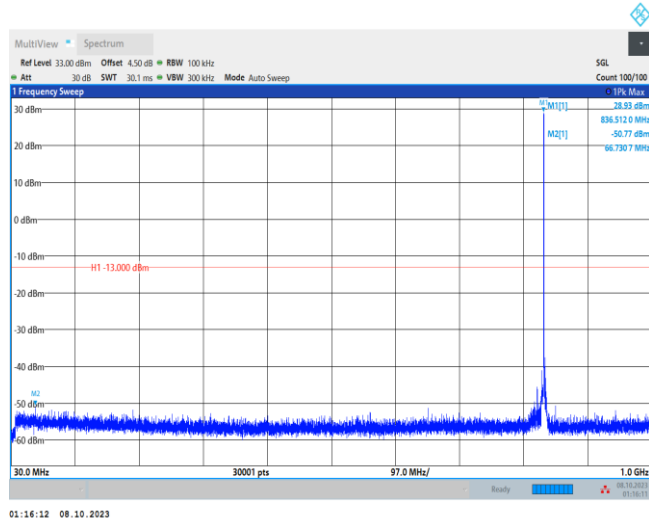
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GSM850-190-0.15~30MHz



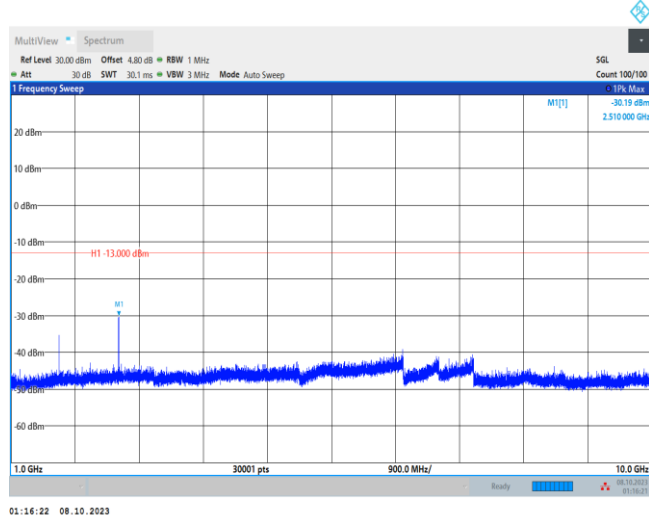
GSM850-190-30~1000MHz



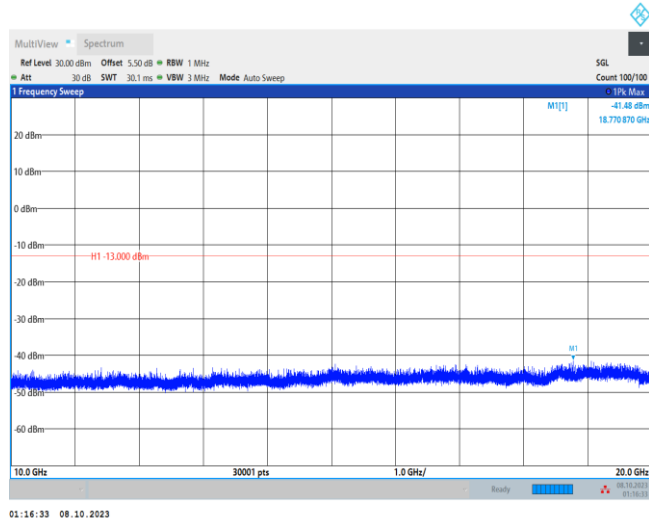
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GSM850-190-1000~10000MHz



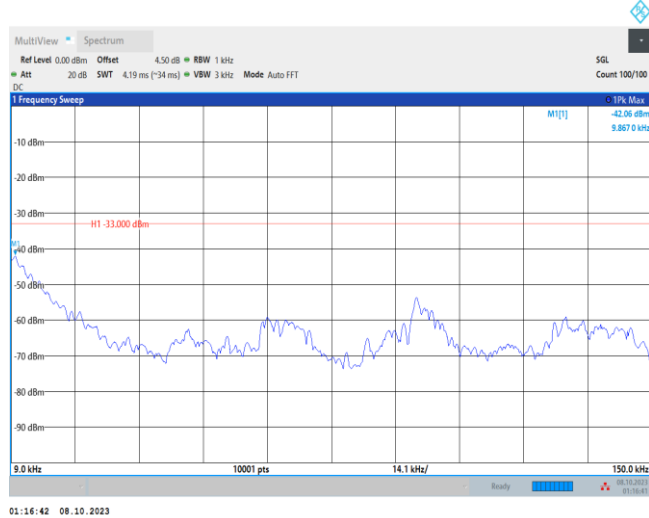
GSM850-190-10000~20000MHz



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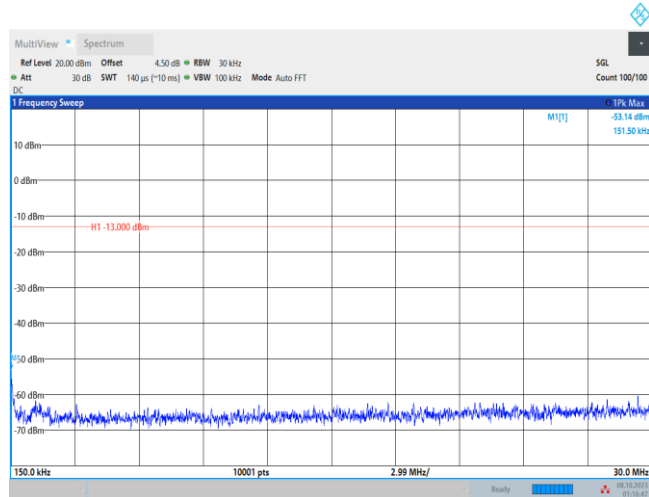
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GSM850-251-0.009~0.15MHz



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GSM850-251-0.15~30MHz



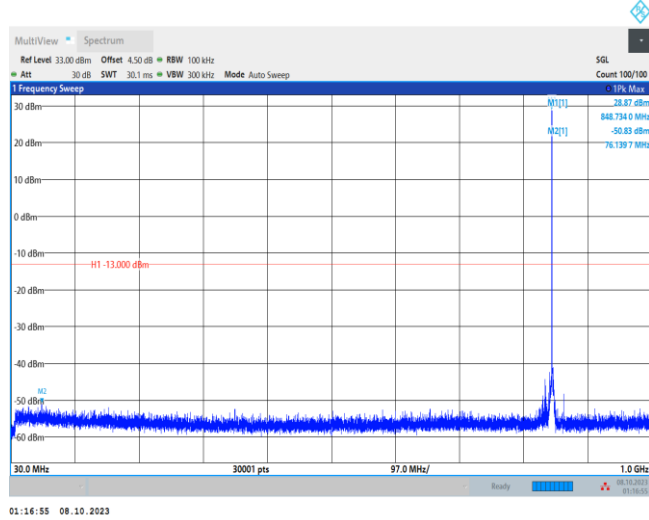
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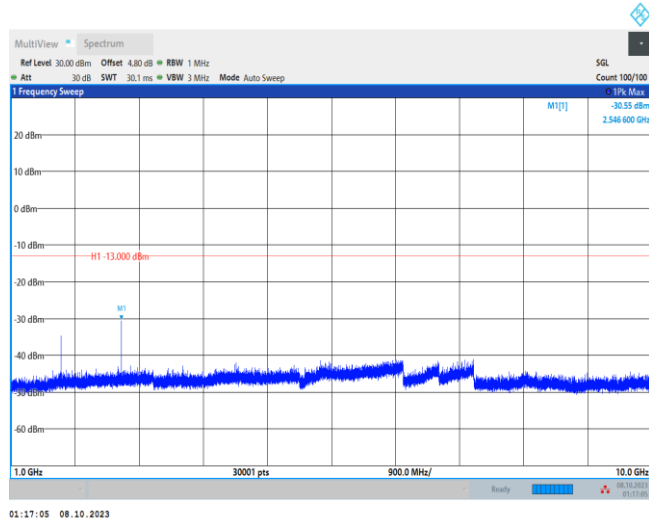
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GSM850-251-30~1000MHz



GSM850-251-1000~10000MHz



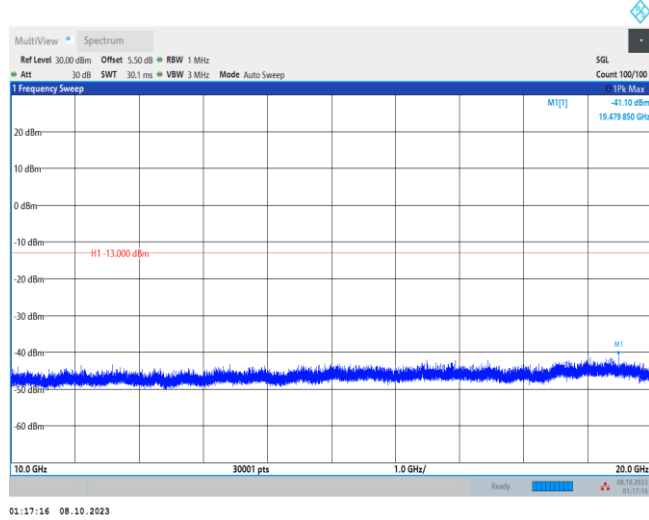
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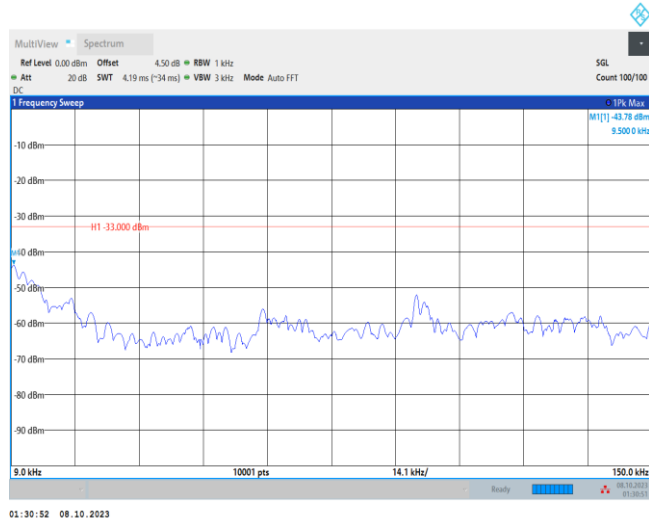
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GSM850-251-10000~20000MHz



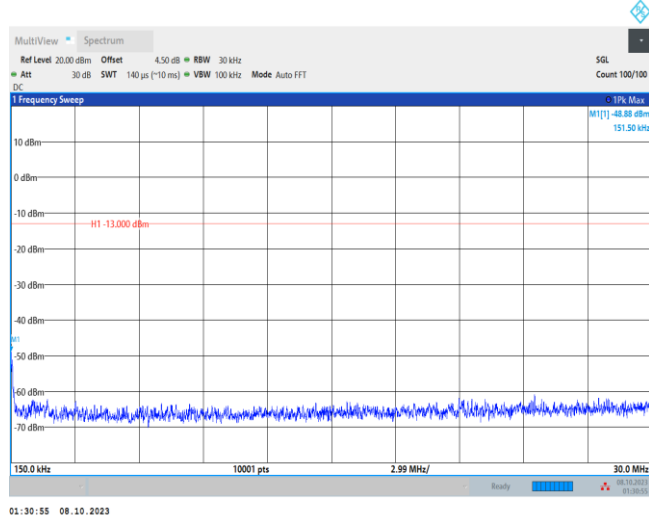
EGPRS850-128-0.009~0.15MHz



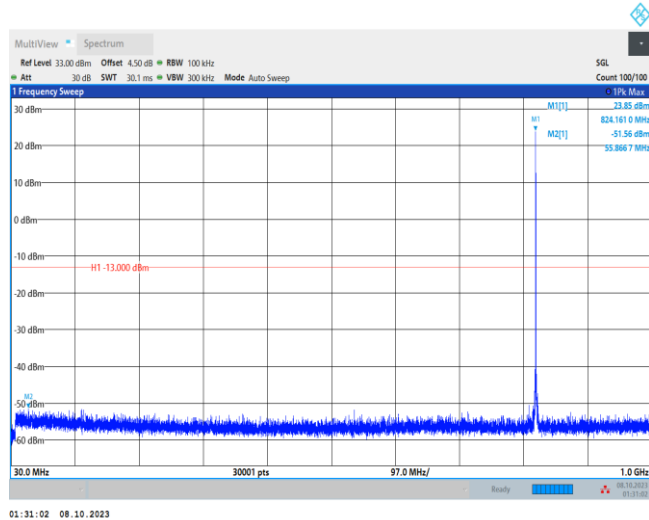
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EGPRS850-128-0.15~30MHz



EGPRS850-128-30~1000MHz



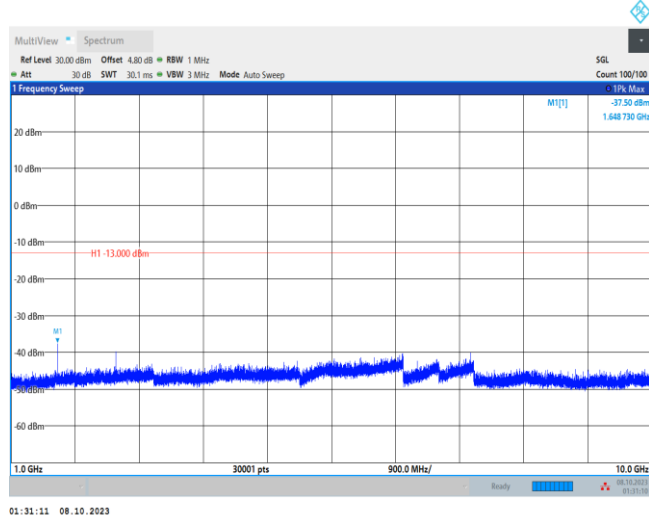
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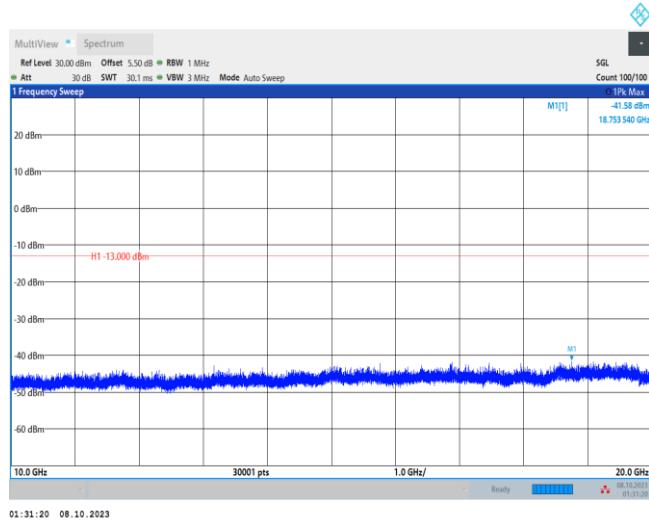
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EGPRS850-128-1000~10000MHz



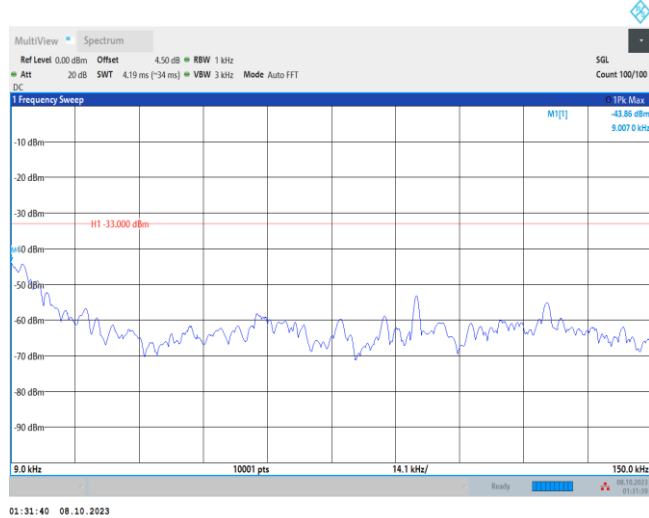
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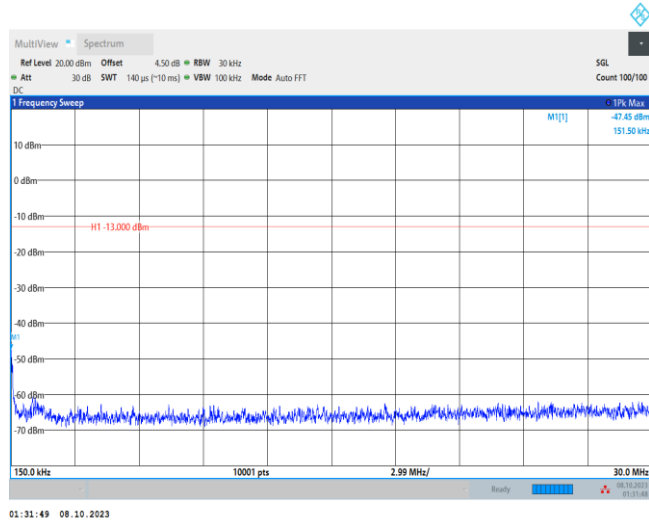
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EGPRS850-190-0.009~0.15MHz



EGPRS850-190-0.15~30MHz

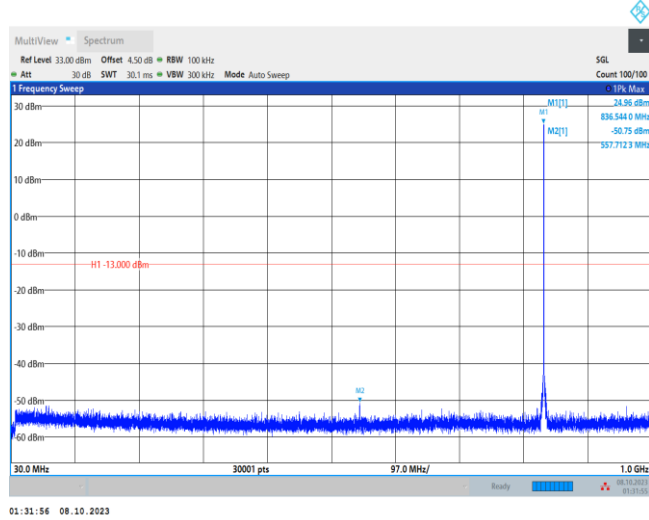


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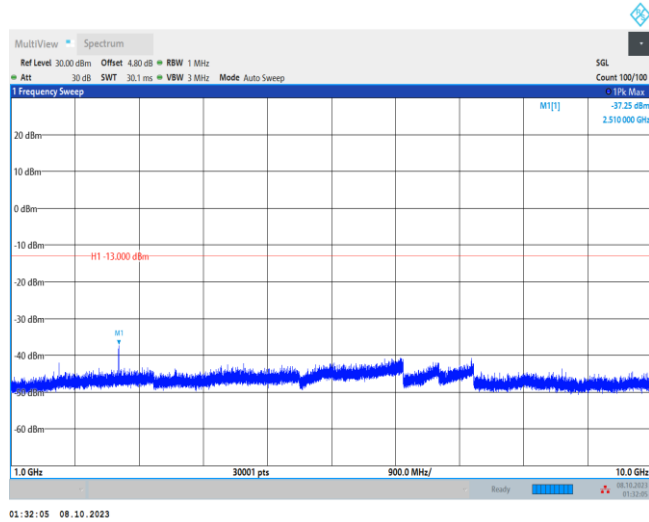
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EGPRS850-190-30~1000MHz



EGPRS850-190-1000~10000MHz

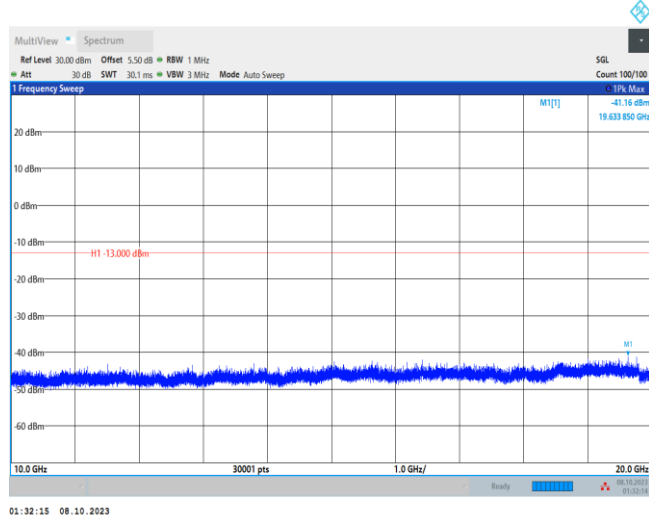


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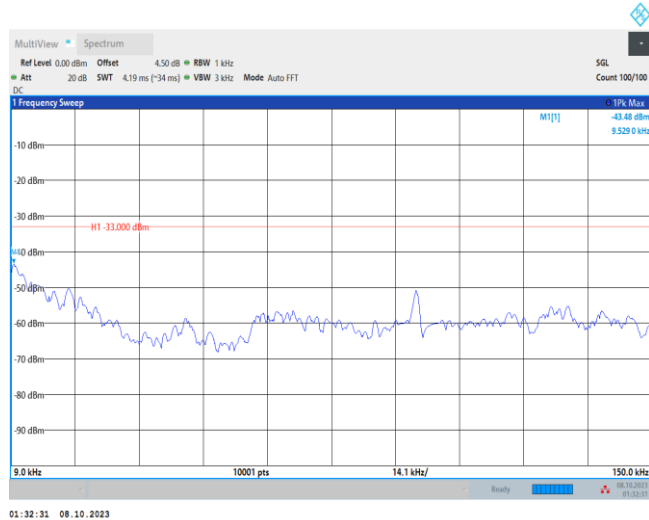
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EGPRS850-190-10000~20000MHz



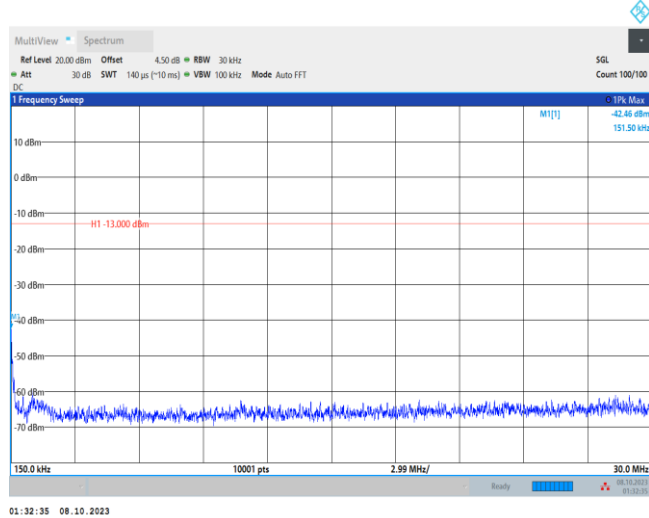
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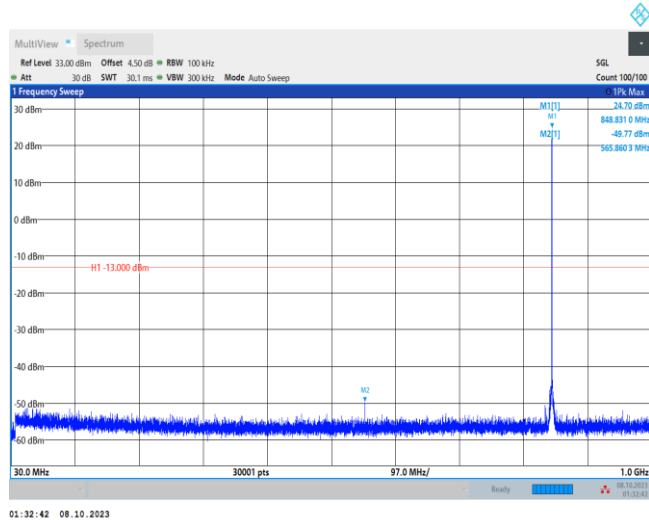
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EGPRS850-251-0.15~30MHz



EGPRS850-251-30~1000MHz

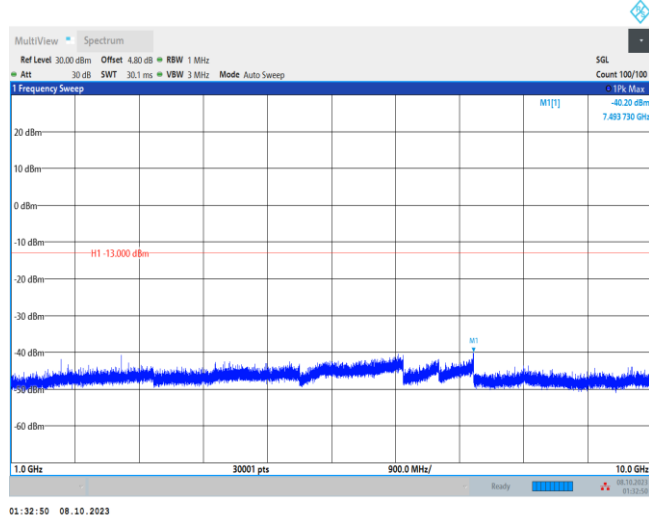


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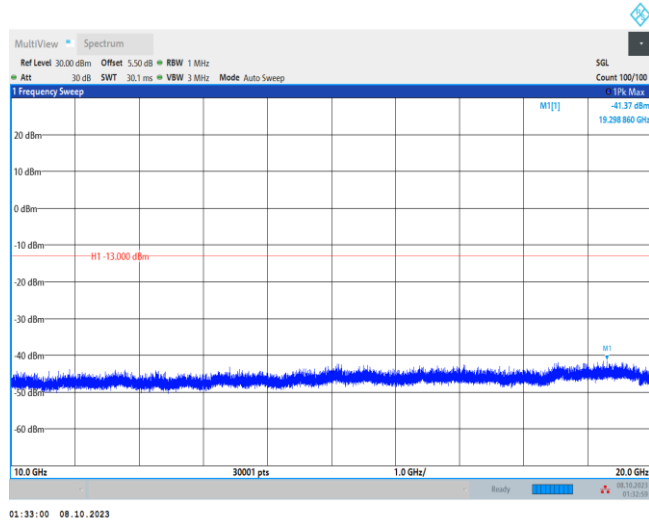
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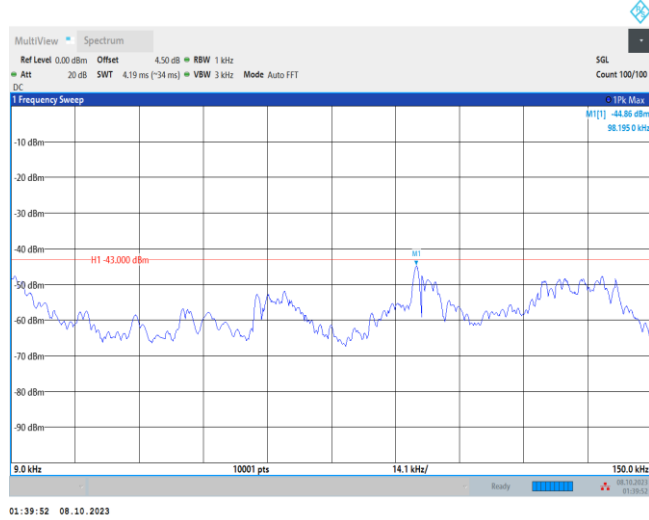
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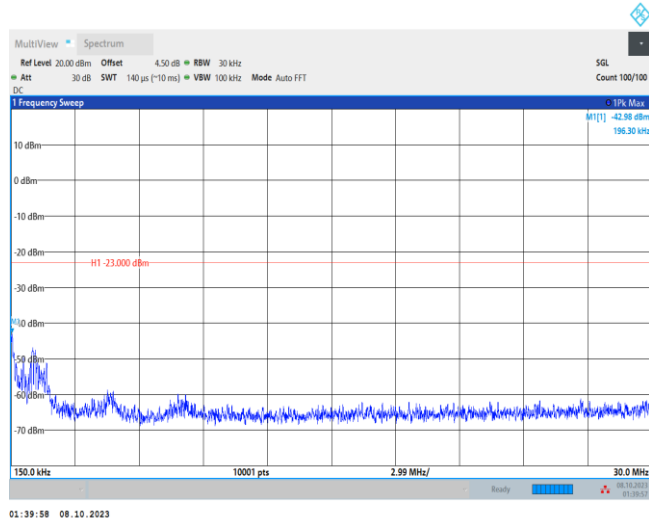
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GSM1900-512-0.15~30MHz



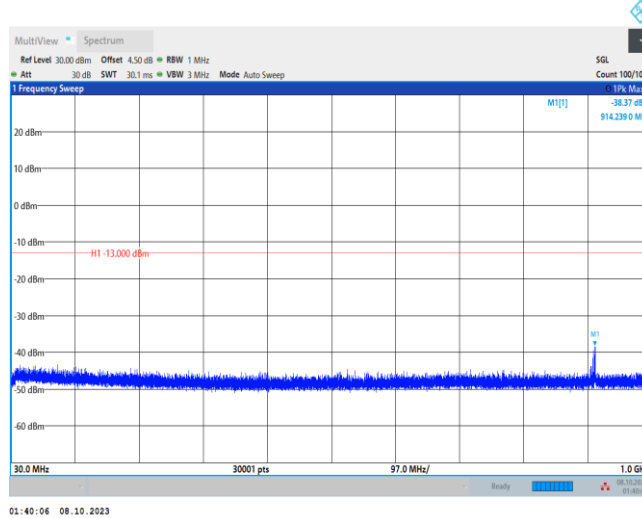
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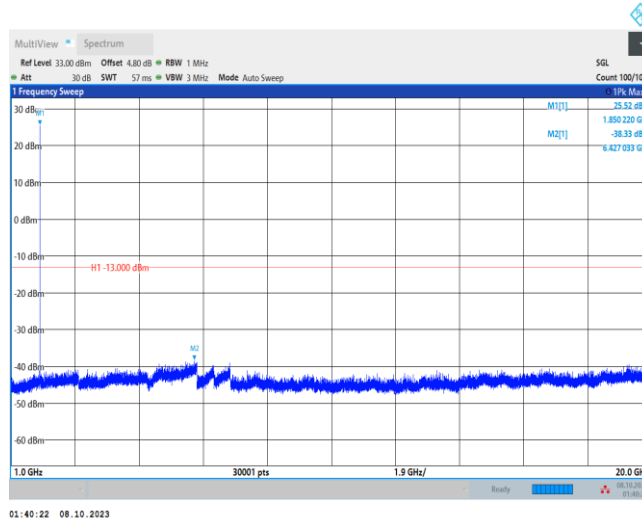
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GSM1900-512-30~1000MHz



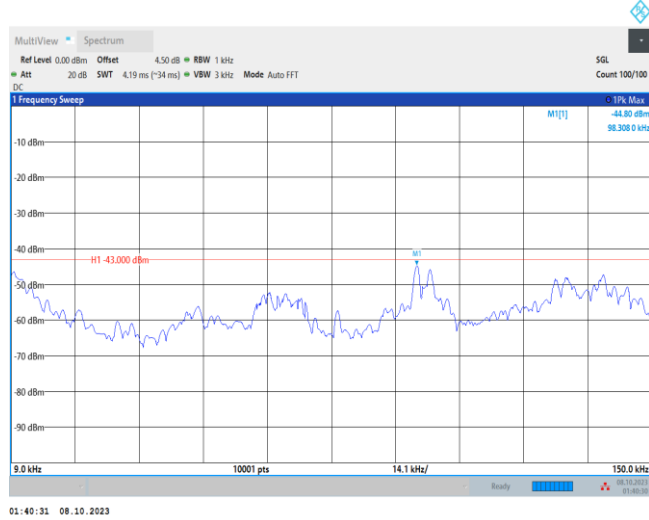
GSM1900-512-1000~20000MHz



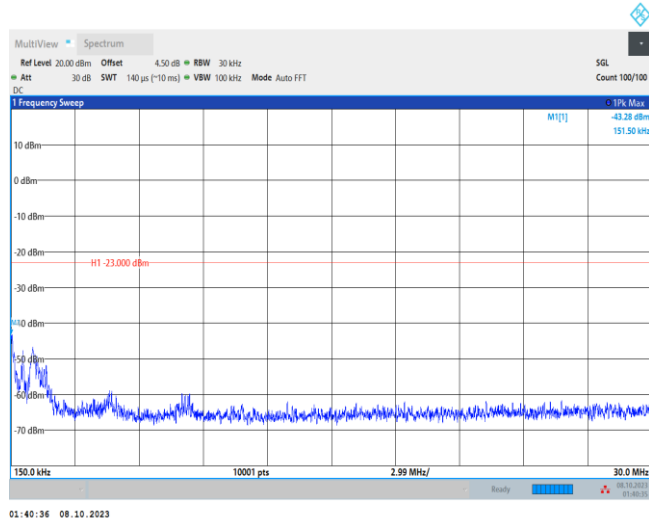
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GSM1900-661-0.009~0.15MHz



GSM1900-661-0.15~30MHz



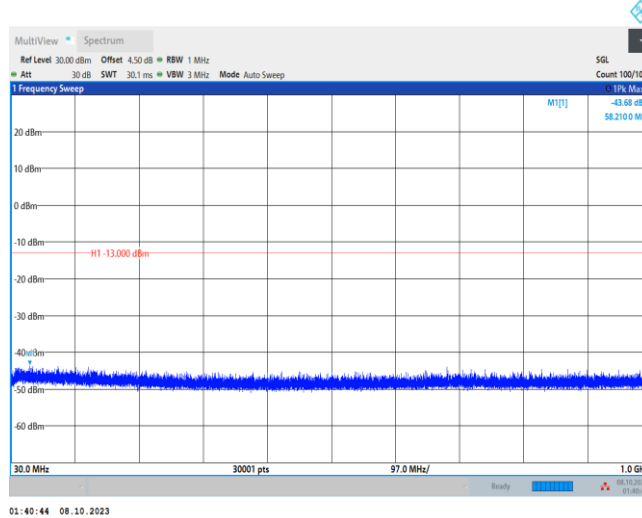
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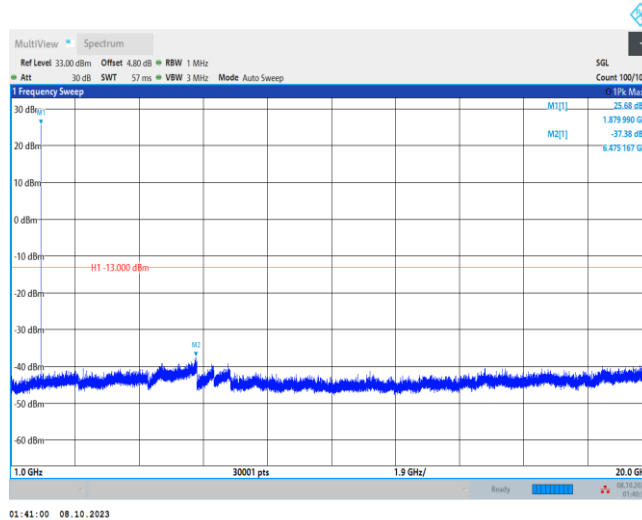
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GSM1900-661-30~1000MHz



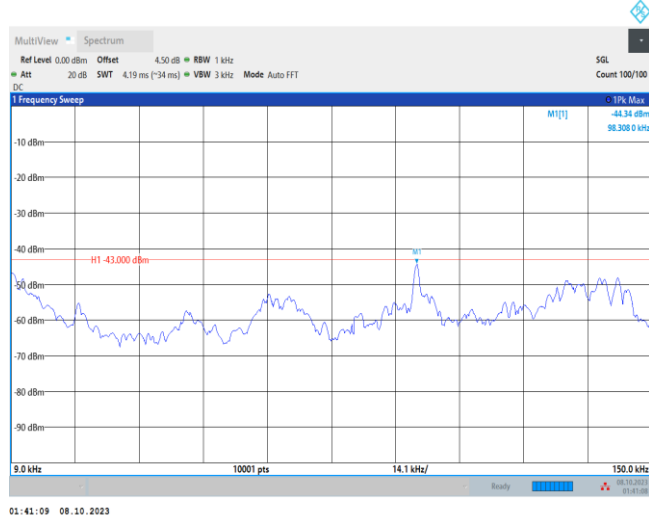
GSM1900-661-1000~20000MHz



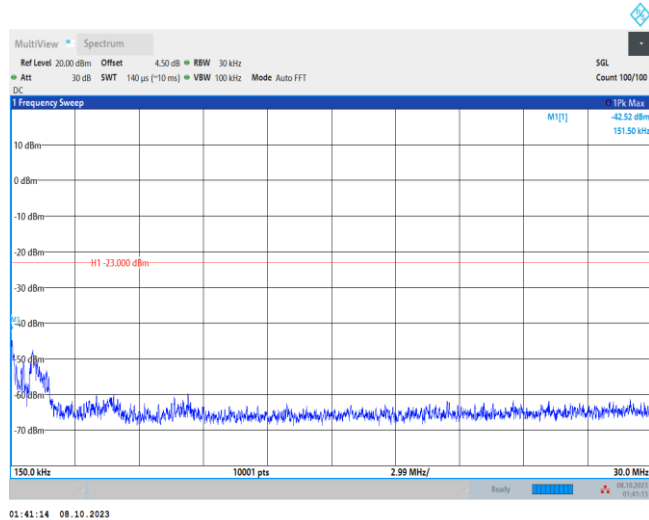
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GSM1900-810-0.009~0.15MHz



GSM1900-810-0.15~30MHz

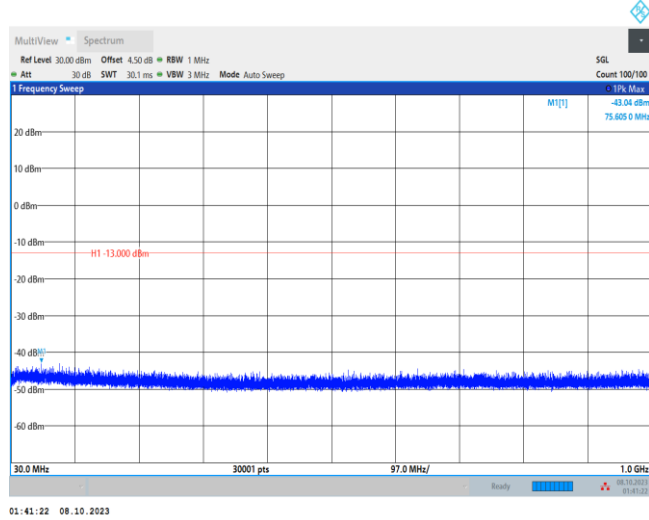


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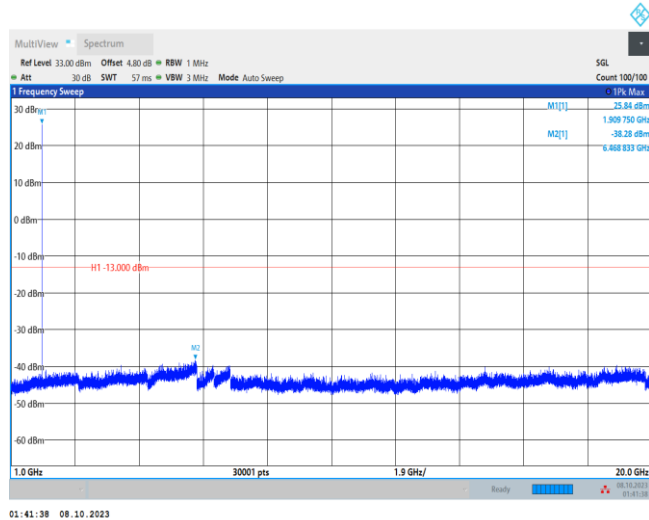
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GSM1900-810-30~1000MHz



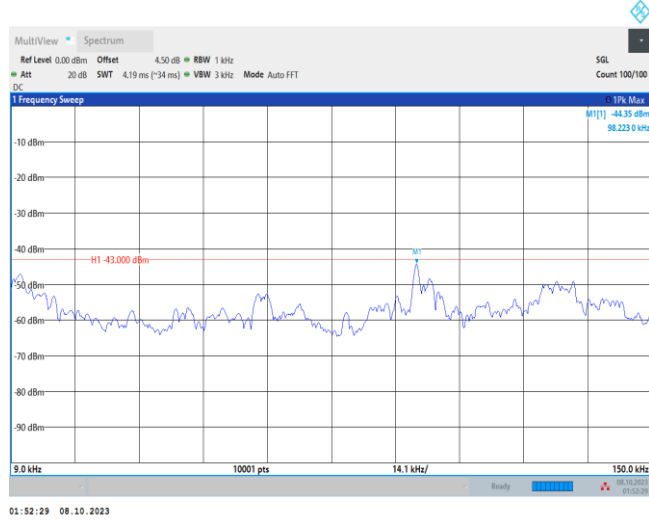
GSM1900-810-1000~20000MHz



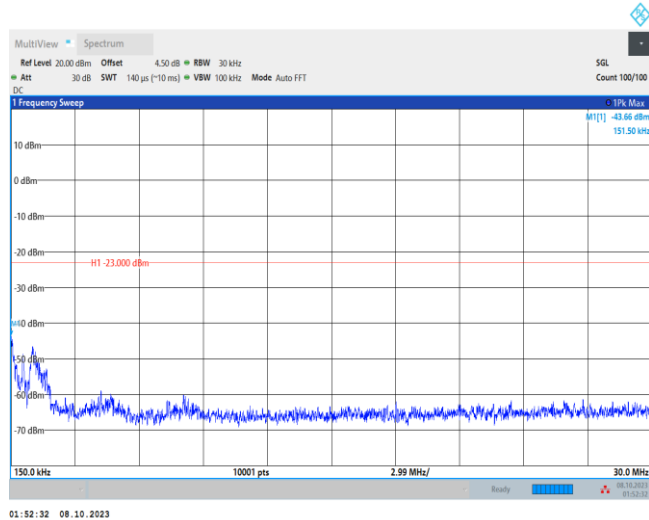
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EGPRS1900-512-0.009~0.15MHz



EGPRS1900-512-0.15~30MHz

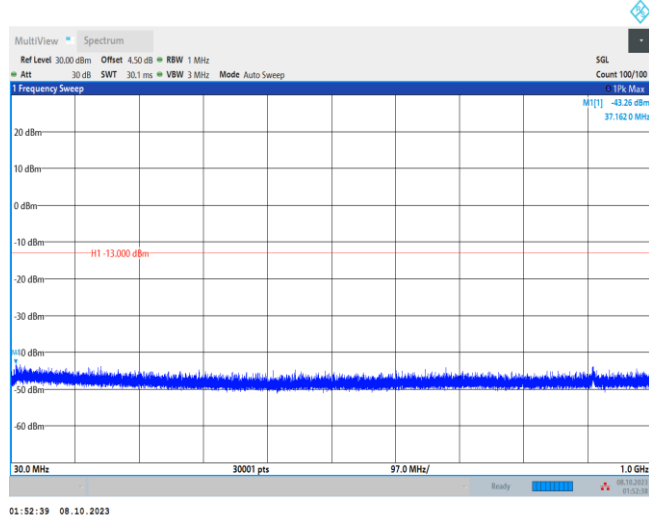


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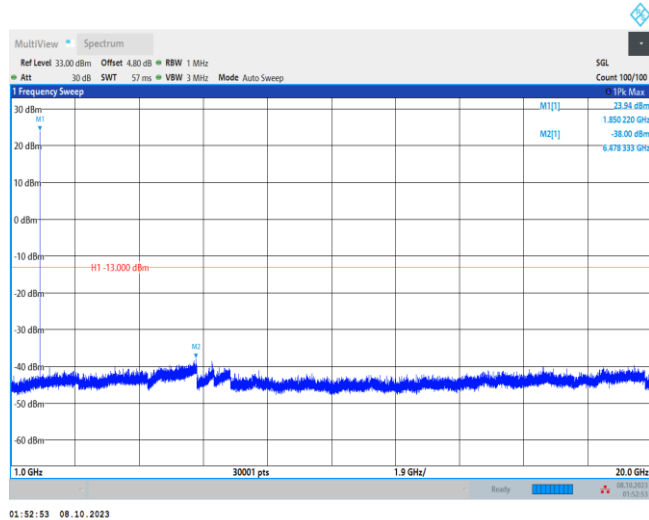
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EGPRS1900-512-30~1000MHz



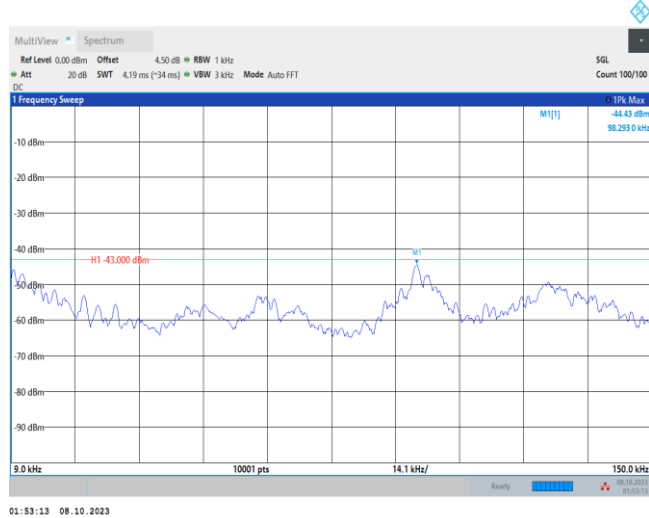
EGPRS1900-512-1000~20000MHz



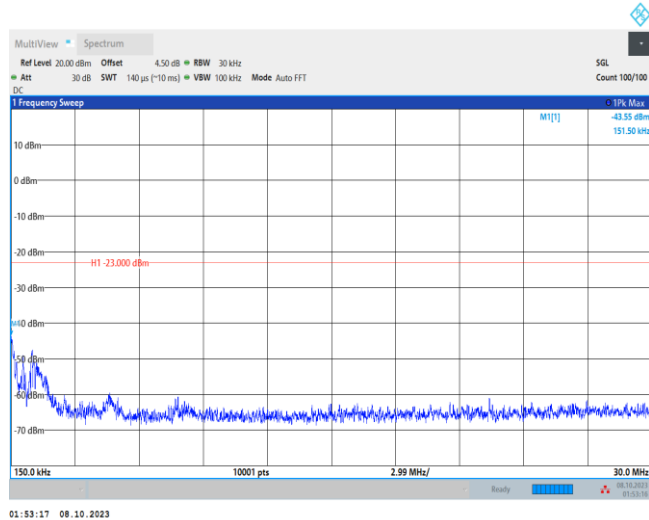
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EGPRS1900-661-0.009~0.15MHz



EGPRS1900-661-0.15~30MHz

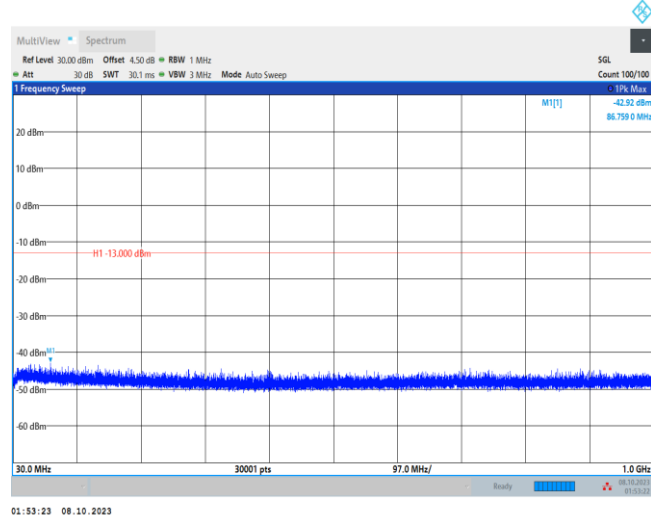


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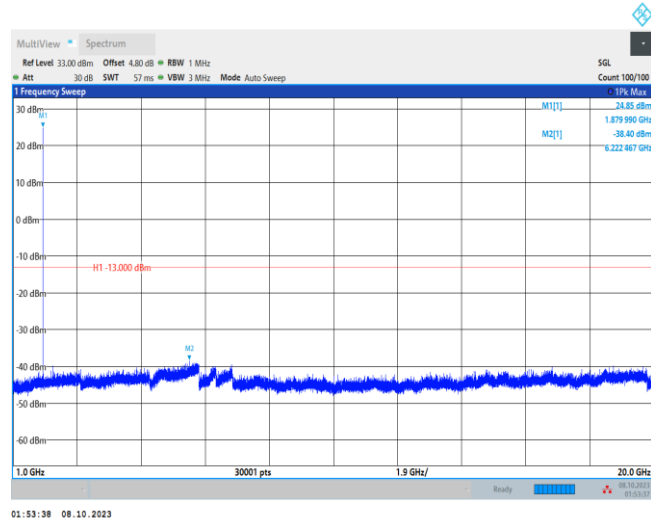
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EGPRS1900-661-30~1000MHz



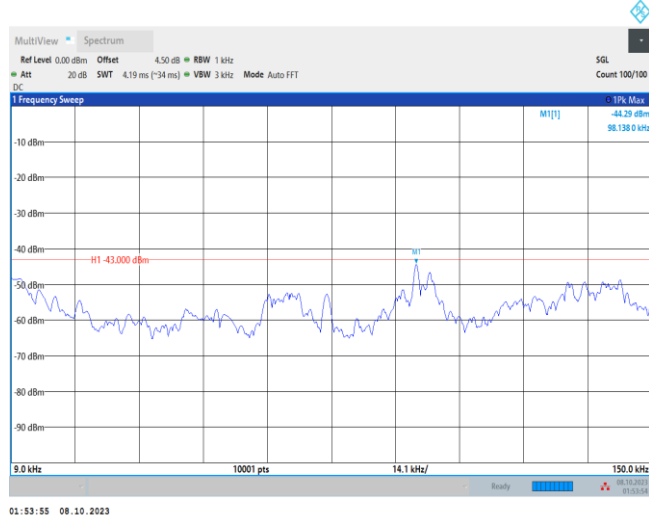
EGPRS1900-661-1000~20000MHz



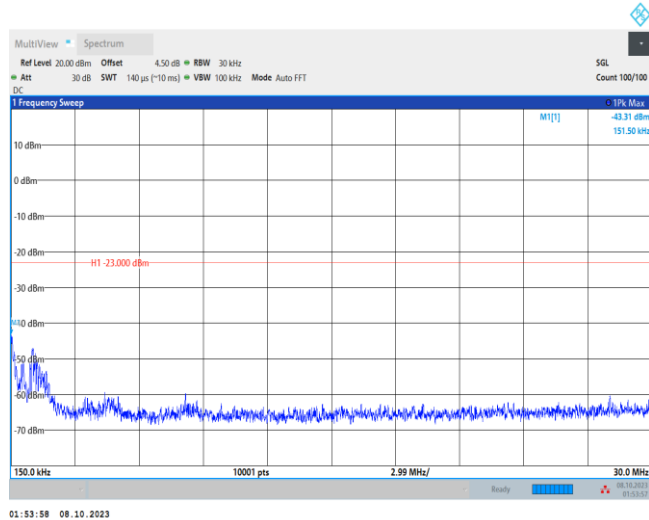
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EGPRS1900-810-0.009~0.15MHz



EGPRS1900-810-0.15~30MHz

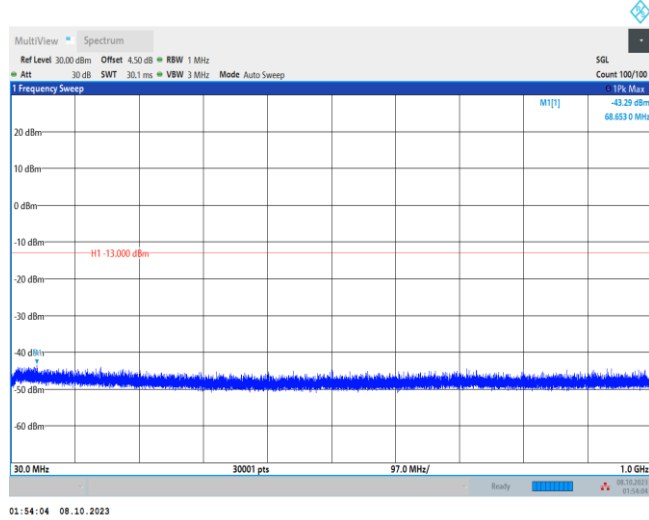


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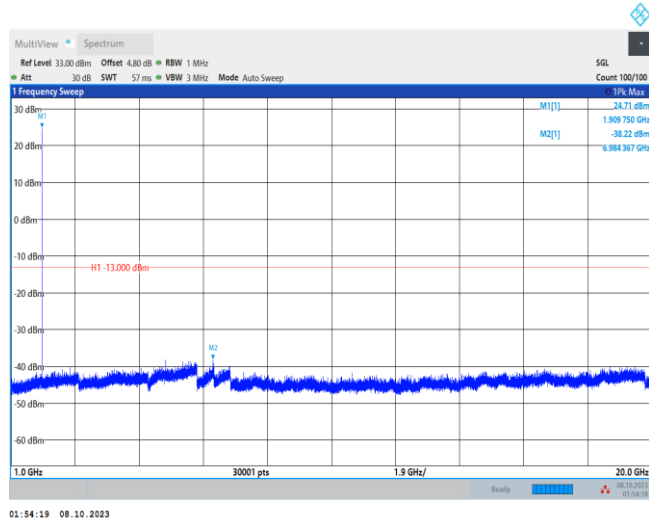
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EGPRS1900-810-30~1000MHz



EGPRS1900-810-1000~20000MHz



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Field Strength of Spurious Radiation

Test Band = GSM850_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.4000	42.36	-48.22	25.27	-75.85	-13.00	62.85	Horizontal
2	2472.6000	41.41	-47.32	27.22	-73.94	-13.00	60.94	Horizontal
3	3296.8000	41.45	-46.67	28.48	-72.00	-13.00	59.00	Horizontal
4	4121.0000	40.32	-45.91	29.39	-71.46	-13.00	58.46	Horizontal
5	4945.2000	40.70	-45.69	31.28	-68.96	-13.00	55.96	Horizontal
6	5769.4000	38.62	-44.63	32.65	-68.62	-13.00	55.62	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.4000	42.44	-48.22	25.27	-75.77	-13.00	62.77	Vertical
2	2472.6000	42.55	-47.32	27.22	-72.80	-13.00	59.80	Vertical
3	3296.8000	42.29	-46.67	28.48	-71.16	-13.00	58.16	Vertical
4	4121.0000	40.63	-45.91	29.39	-71.15	-13.00	58.15	Vertical
5	4945.2000	40.94	-45.69	31.28	-68.72	-13.00	55.72	Vertical
6	5769.4000	39.26	-44.63	32.65	-67.98	-13.00	54.98	Vertical



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Test Band = GSM850_ TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8000	42.15	-48.19	25.31	-75.99	-13.00	62.99	Horizontal
2	2509.2000	41.84	-47.24	27.32	-73.34	-13.00	60.34	Horizontal
3	3345.6000	42.00	-46.62	28.51	-71.37	-13.00	58.37	Horizontal
4	4182.0000	39.47	-45.95	29.54	-72.20	-13.00	59.20	Horizontal
5	5018.4000	40.28	-45.73	31.45	-69.26	-13.00	56.26	Horizontal
6	5854.8000	39.37	-44.83	32.67	-68.05	-13.00	55.05	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8000	43.89	-48.19	25.31	-74.25	-13.00	61.25	Vertical
2	2509.2000	42.54	-47.24	27.32	-72.64	-13.00	59.64	Vertical
3	3345.6000	41.57	-46.62	28.51	-71.80	-13.00	58.80	Vertical
4	4182.0000	40.26	-45.95	29.54	-71.41	-13.00	58.41	Vertical
5	5018.4000	40.54	-45.73	31.45	-69.00	-13.00	56.00	Vertical
6	5854.8000	39.90	-44.83	32.67	-67.52	-13.00	54.52	Vertical



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Test Band = GSM850_TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.6000	41.73	-48.16	25.35	-76.35	-13.00	63.35	Horizontal
2	2546.4000	42.33	-47.11	27.39	-72.65	-13.00	59.65	Horizontal
3	3395.2000	40.90	-46.55	28.54	-72.37	-13.00	59.37	Horizontal
4	4244.0000	40.92	-45.88	29.69	-70.54	-13.00	57.54	Horizontal
5	5092.8000	39.17	-45.41	31.62	-69.88	-13.00	56.88	Horizontal
6	5941.6000	39.98	-44.74	32.69	-67.34	-13.00	54.34	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.6000	42.83	-48.16	25.35	-75.25	-13.00	62.25	Vertical
2	2546.4000	42.28	-47.11	27.39	-72.70	-13.00	59.70	Vertical
3	3395.2000	41.19	-46.55	28.54	-72.08	-13.00	59.08	Vertical
4	4244.0000	40.65	-45.88	29.69	-70.81	-13.00	57.81	Vertical
5	5092.8000	39.15	-45.41	31.62	-69.90	-13.00	56.90	Vertical
6	5941.6000	39.41	-44.74	32.69	-67.91	-13.00	54.91	Vertical



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Test Band = GSM1900_ TM1
 Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.4000	39.16	-45.50	28.80	-72.80	-13.00	59.80	Horizontal
2	4602.75	40.60	-45.67	30.53	-69.80	-13.00	56.80	Horizontal
3	5550.6000	38.93	-45.15	32.61	-68.87	-13.00	55.87	Horizontal
4	7400.8000	36.24	-43.41	36.32	-66.10	-13.00	53.10	Horizontal
5	9251.0000	30.75	-40.23	36.78	-67.97	-13.00	54.97	Horizontal
6	11101.2000	26.22	-37.96	38.71	-68.29	-13.00	55.29	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.4000	39.58	-45.50	28.80	-72.38	-13.00	59.38	Vertical
2	4749.75	40.91	-45.57	30.85	-69.07	-13.00	56.07	Vertical
3	5550.6000	39.24	-45.15	32.61	-68.56	-13.00	55.56	Vertical
4	7400.8000	37.21	-43.41	36.32	-65.13	-13.00	52.13	Vertical
5	9251.0000	31.38	-40.23	36.78	-67.34	-13.00	54.34	Vertical
6	11101.2000	25.89	-37.96	38.71	-68.62	-13.00	55.62	Vertical



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Test Band = GSM1900_ TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760.0000	40.28	-45.75	28.86	-71.87	-13.00	58.87	Horizontal
2	4916.25	41.80	-45.55	31.22	-67.79	-13.00	54.79	Horizontal
3	5640.0000	38.15	-44.98	32.63	-69.46	-13.00	56.46	Horizontal
4	7520.0000	36.41	-43.10	36.61	-65.34	-13.00	52.34	Horizontal
5	9400.0000	31.75	-39.83	37.06	-66.28	-13.00	53.28	Horizontal
6	11280.0000	27.91	-37.41	38.73	-66.04	-13.00	53.04	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760.0000	39.74	-45.75	28.86	-72.41	-13.00	59.41	Vertical
2	4896	41.58	-45.53	31.17	-68.04	-13.00	55.04	Vertical
3	5640.0000	38.71	-44.98	32.63	-68.90	-13.00	55.90	Vertical
4	7520.0000	37.12	-43.10	36.61	-64.63	-13.00	51.63	Vertical
5	9400.0000	31.87	-39.83	37.06	-66.16	-13.00	53.16	Vertical
6	11280.0000	27.52	-37.41	38.73	-66.43	-13.00	53.43	Vertical



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Test Band = GSM1900_ TM1
 Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819.6000	39.91	-45.99	28.92	-72.42	-13.00	59.42	Horizontal
2	4909.5	41.26	-45.54	31.20	-68.34	-13.00	55.34	Horizontal
3	7639.2000	37.46	-43.01	36.66	-64.15	-13.00	51.15	Horizontal
4	9549.0000	31.70	-39.96	37.34	-66.17	-13.00	53.17	Horizontal
5	11458.8000	26.84	-37.33	38.75	-67.01	-13.00	54.01	Horizontal
6	13845.75	26.44	-35.97	40.62	-64.16	-13.00	51.16	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819.6000	40.27	-45.99	28.92	-72.06	-13.00	59.06	Vertical
2	4896.75	41.56	-45.53	31.17	-68.06	-13.00	55.06	Vertical
3	7639.2000	36.79	-43.01	36.66	-64.82	-13.00	51.82	Vertical
4	9549.0000	31.83	-39.96	37.34	-66.04	-13.00	53.04	Vertical
5	11458.8000	27.32	-37.33	38.75	-66.53	-13.00	53.53	Vertical
6	15153	25.55	-34.40	40.98	-63.14	-13.00	50.14	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	VL	NT	3.52	0.004208	±2.5	PASS
GSM850	190	VN	NT	5.33	0.006371	±2.5	PASS
GSM850	190	VH	NT	1.71	0.002044	±2.5	PASS
EGPRS850	190	VL	NT	22.21	0.026548	±2.5	PASS
EGPRS850	190	VN	NT	19.98	0.023882	±2.5	PASS
EGPRS850	190	VH	NT	23.18	0.027707	±2.5	PASS

Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	VL	NT	1.65	0.000878	PASS
GSM1900	661	VN	NT	7.62	0.004053	PASS
GSM1900	661	VH	NT	6.46	0.003436	PASS
EGPRS1900	661	VL	NT	16.34	0.008691	PASS
EGPRS1900	661	VN	NT	18.66	0.009926	PASS
EGPRS1900	661	VH	NT	17.79	0.009463	PASS



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Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	4.71	0.005630	±2.5	PASS
GSM850	190	NV	-20	6.26	0.007483	±2.5	PASS
GSM850	190	NV	-10	4.42	0.005283	±2.5	PASS
GSM850	190	NV	0	4.55	0.005439	±2.5	PASS
GSM850	190	NV	10	3.20	0.003825	±2.5	PASS
GSM850	190	NV	20	3.75	0.004482	±2.5	PASS
GSM850	190	NV	30	2.16	0.002582	±2.5	PASS
GSM850	190	NV	40	2.07	0.002474	±2.5	PASS
GSM850	190	NV	50	2.74	0.003275	±2.5	PASS
EGPRS850	190	NV	-30	21.50	0.025699	±2.5	PASS
EGPRS850	190	NV	-20	20.63	0.024659	±2.5	PASS
EGPRS850	190	NV	-10	20.66	0.024695	±2.5	PASS
EGPRS850	190	NV	0	22.18	0.026512	±2.5	PASS
EGPRS850	190	NV	10	21.53	0.025735	±2.5	PASS
EGPRS850	190	NV	20	21.50	0.025699	±2.5	PASS
EGPRS850	190	NV	30	20.11	0.024038	±2.5	PASS
EGPRS850	190	NV	40	19.18	0.022926	±2.5	PASS
EGPRS850	190	NV	50	20.79	0.024851	±2.5	PASS



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Report No.: SEWM2309000347RG01

Rev.: 01

Page: 57 of 57

Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	NV	-30	3.36	0.001787	PASS
GSM1900	661	NV	-20	2.91	0.001548	PASS
GSM1900	661	NV	-10	1.23	0.000654	PASS
GSM1900	661	NV	0	3.00	0.001596	PASS
GSM1900	661	NV	10	0.97	0.000516	PASS
GSM1900	661	NV	20	3.00	0.001596	PASS
GSM1900	661	NV	30	3.26	0.001734	PASS
GSM1900	661	NV	40	4.52	0.002404	PASS
GSM1900	661	NV	50	2.20	0.001170	PASS
EGPRS1900	661	NV	-30	17.24	0.009170	PASS
EGPRS1900	661	NV	-20	18.11	0.009633	PASS
EGPRS1900	661	NV	-10	18.18	0.009670	PASS
EGPRS1900	661	NV	0	16.11	0.008569	PASS
EGPRS1900	661	NV	10	18.76	0.009979	PASS
EGPRS1900	661	NV	20	18.14	0.009649	PASS
EGPRS1900	661	NV	30	17.47	0.009293	PASS
EGPRS1900	661	NV	40	17.31	0.009207	PASS
EGPRS1900	661	NV	50	16.76	0.008915	PASS

---End of Attachment---



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