

Report No.: XEWM2311000573RG01

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# Appendix B.1

## GSM 850&1900



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Channel	Power(dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	32.43	28.28	38.45	PASS
GSM850	190	32.60	28.45	38.45	PASS
GSM850	251	32.66	28.51	38.45	PASS

Band	Channel	Power(dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	29.40	29.80	33.00	PASS
GSM1900	661	29.42	29.82	33.00	PASS
GSM1900	810	29.48	29.88	33.00	PASS



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Band	Channel	Slot	Power(dBm)	ERP (dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	27.15	23.00	38.45	PASS
EGPRS850	128	2	26.99	22.84	38.45	PASS
EGPRS850	128	3	26.83	22.68	38.45	PASS
EGPRS850	128	4	26.66	22.51	38.45	PASS
EGPRS850	190	1	27.28	23.13	38.45	PASS
EGPRS850	190	2	27.16	23.01	38.45	PASS
EGPRS850	190	3	27.00	22.85	38.45	PASS
EGPRS850	190	4	26.84	22.69	38.45	PASS
EGPRS850	251	1	27.42	23.27	38.45	PASS
EGPRS850	251	2	27.31	23.16	38.45	PASS
EGPRS850	251	3	27.16	23.01	38.45	PASS
EGPRS850	251	4	27.00	22.85	38.45	PASS

Band	Channel	Slot	Power(dBm)	EIRP (dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	25.92	26.32	33.00	PASS
EGPRS1900	512	2	25.74	26.14	33.00	PASS
EGPRS1900	512	3	25.54	25.94	33.00	PASS
EGPRS1900	512	4	25.33	25.73	33.00	PASS
EGPRS1900	661	1	25.88	26.28	33.00	PASS
EGPRS1900	661	2	25.74	26.14	33.00	PASS
EGPRS1900	661	3	25.54	25.94	33.00	PASS
EGPRS1900	661	4	25.34	25.74	33.00	PASS
EGPRS1900	810	1	25.91	26.31	33.00	PASS
EGPRS1900	810	2	25.76	26.16	33.00	PASS
EGPRS1900	810	3	25.57	25.97	33.00	PASS
EGPRS1900	810	4	25.36	25.76	33.00	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	7.26	13	PASS
GSM850	190	7.08	13	PASS
GSM850	251	6.98	13	PASS
EGPRS850	128	9.68	13	PASS
EGPRS850	190	9.7	13	PASS
EGPRS850	251	9.68	13	PASS
GSM1900	512	9.6	13	PASS
GSM1900	661	9.6	13	PASS
GSM1900	810	9.6	13	PASS
EGPRS1900	512	9.78	13	PASS
EGPRS1900	661	9.78	13	PASS
EGPRS1900	810	9.76	13	PASS



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## Test Graphs



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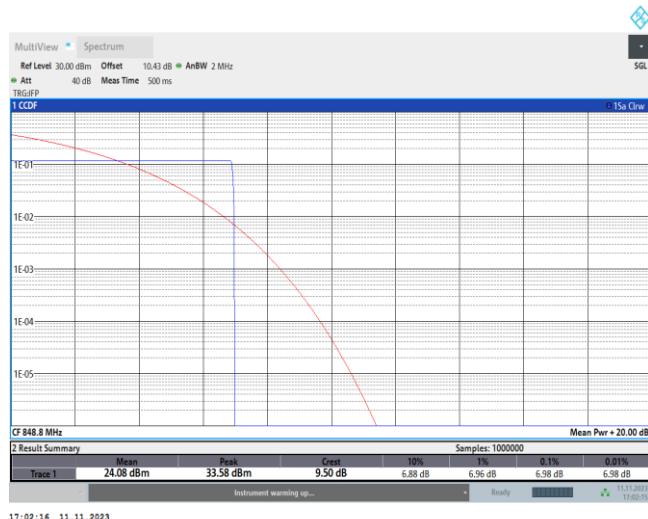
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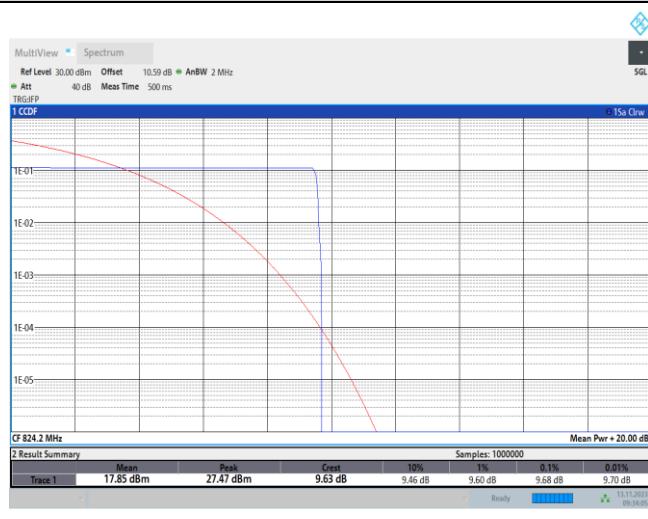
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## GSM850-251



## EGPRS850-128



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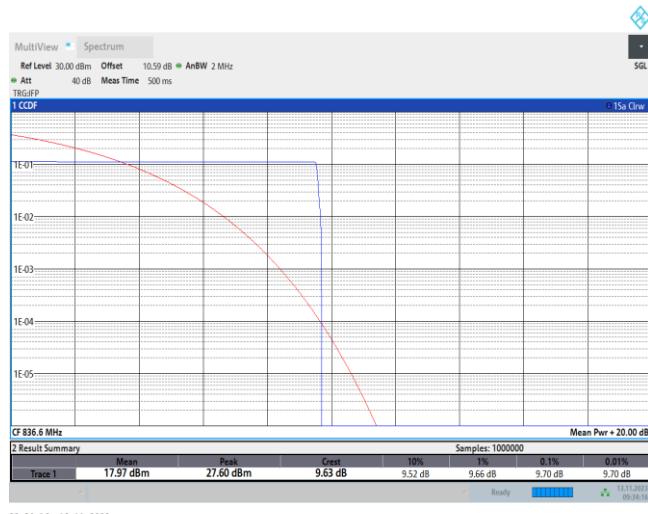
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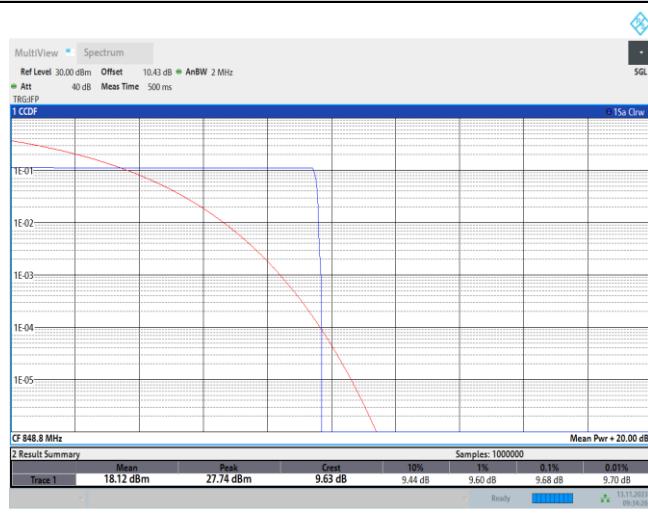
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## EGPRS850-190



## EGPRS850-251



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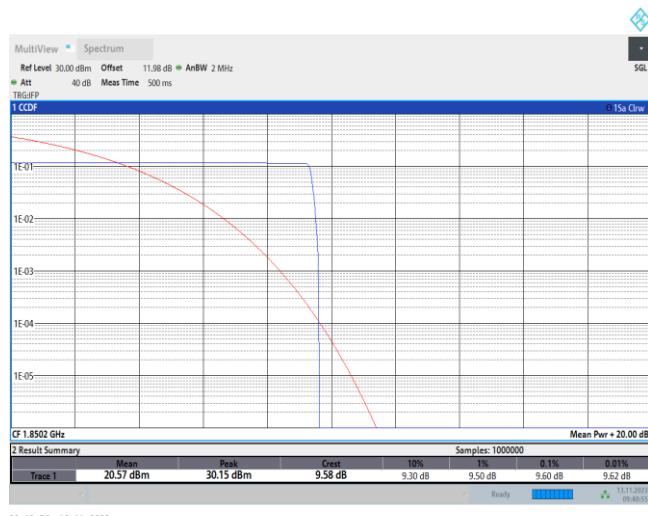
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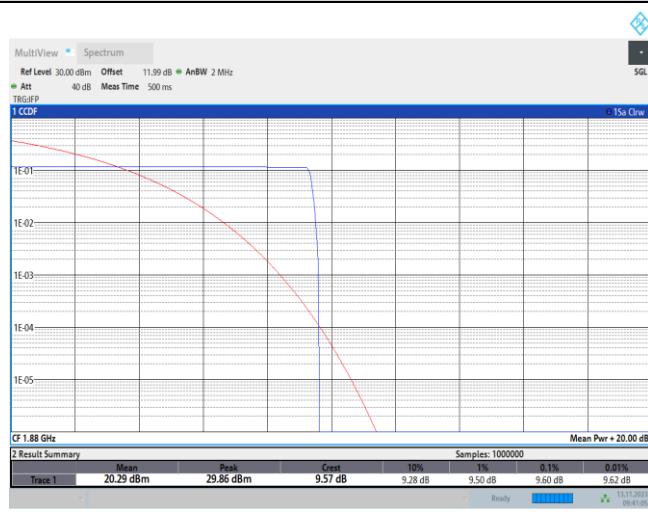
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## GSM1900-512



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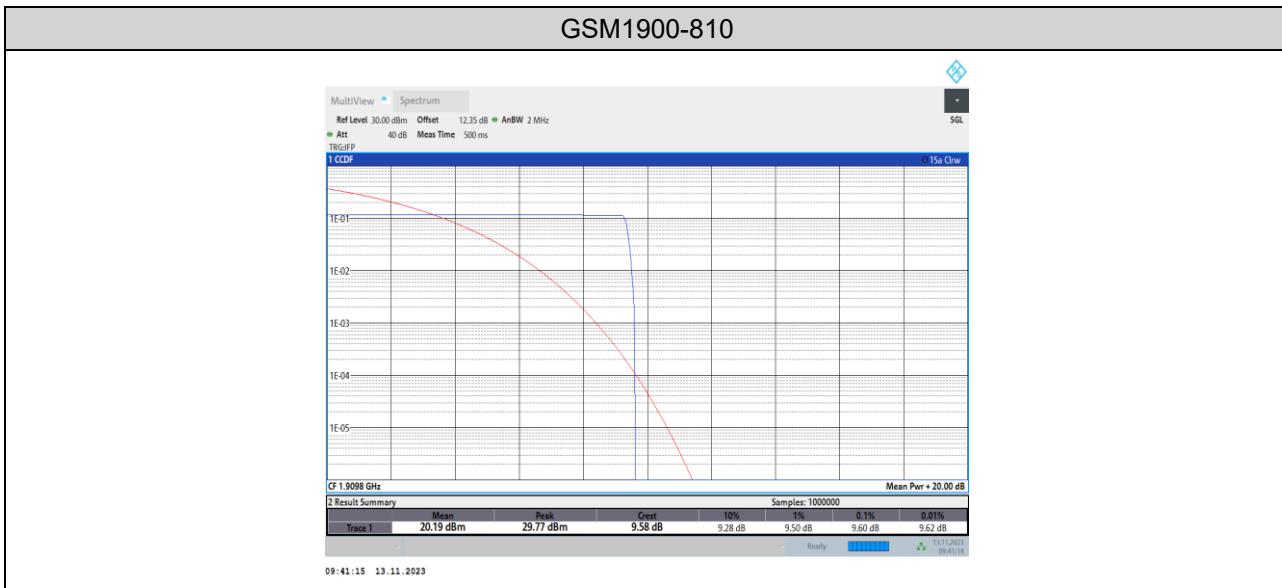
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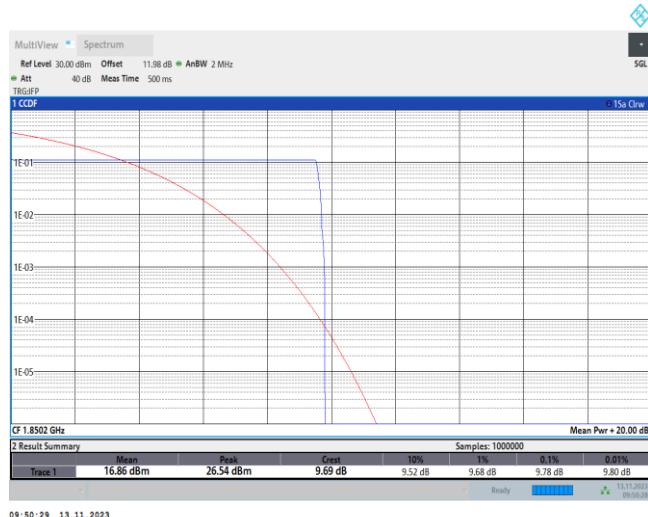
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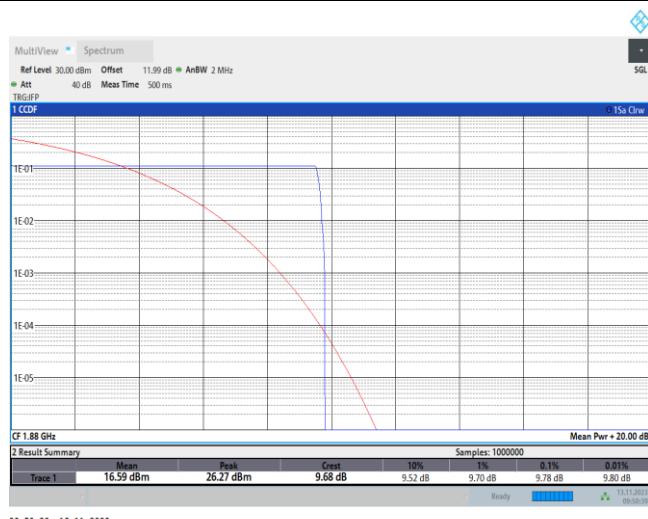
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## EGPRS1900-512



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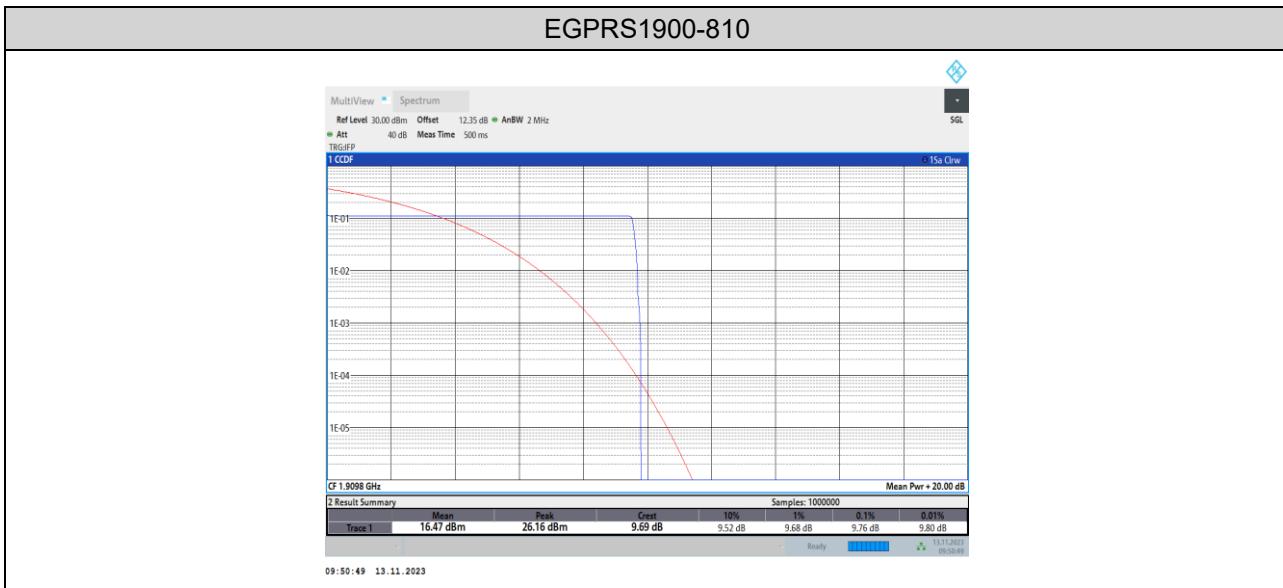
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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.245	0.31	---	PASS
GSM850	190	0.244	0.31	---	PASS
GSM850	251	0.245	0.31	---	PASS
EGPRS850	128	0.248	0.32	---	PASS
EGPRS850	190	0.248	0.33	---	PASS
EGPRS850	251	0.246	0.32	---	PASS
GSM1900	512	0.246	0.31	---	PASS
GSM1900	661	0.244	0.31	---	PASS
GSM1900	810	0.244	0.31	---	PASS
EGPRS1900	512	0.247	0.33	---	PASS
EGPRS1900	661	0.247	0.32	---	PASS
EGPRS1900	810	0.246	0.32	---	PASS



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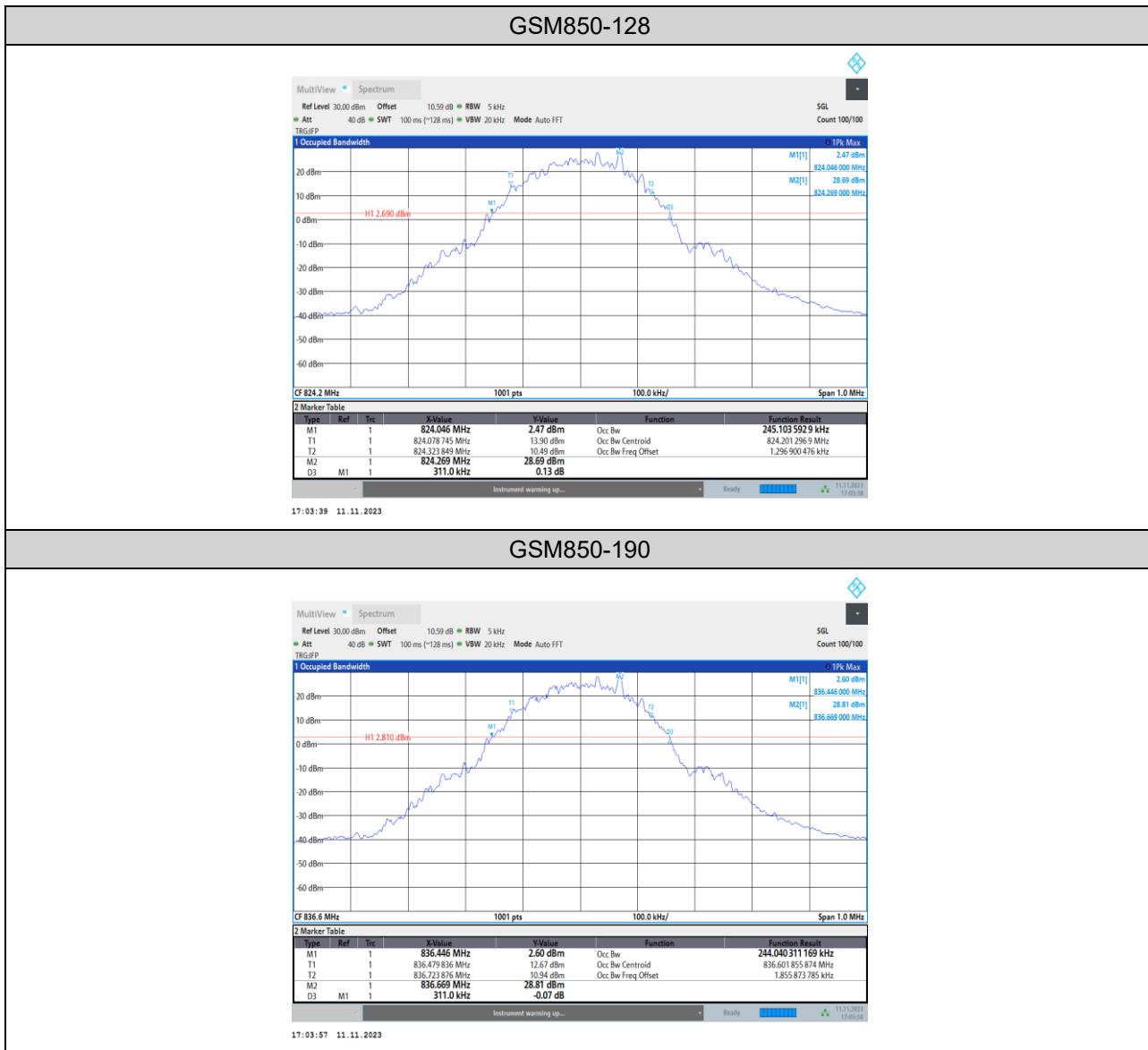
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## Test Graphs



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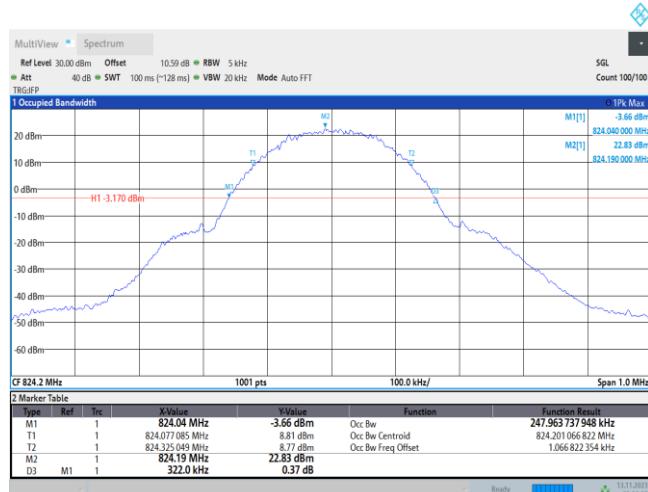
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## GSM850-251



17:04:14 11.11.2023

## EGPRS850-128



09:34:53 13.11.2023



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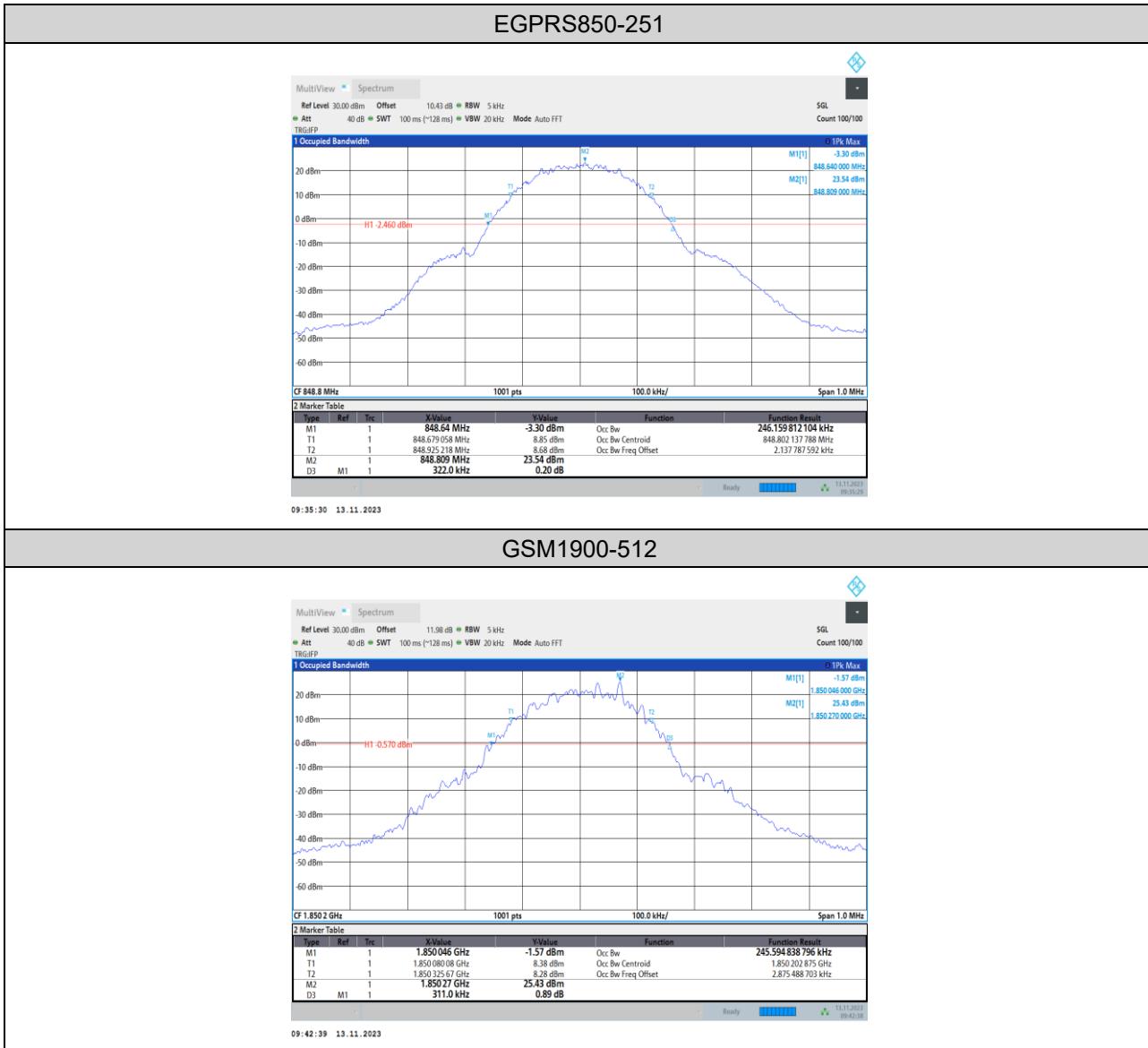
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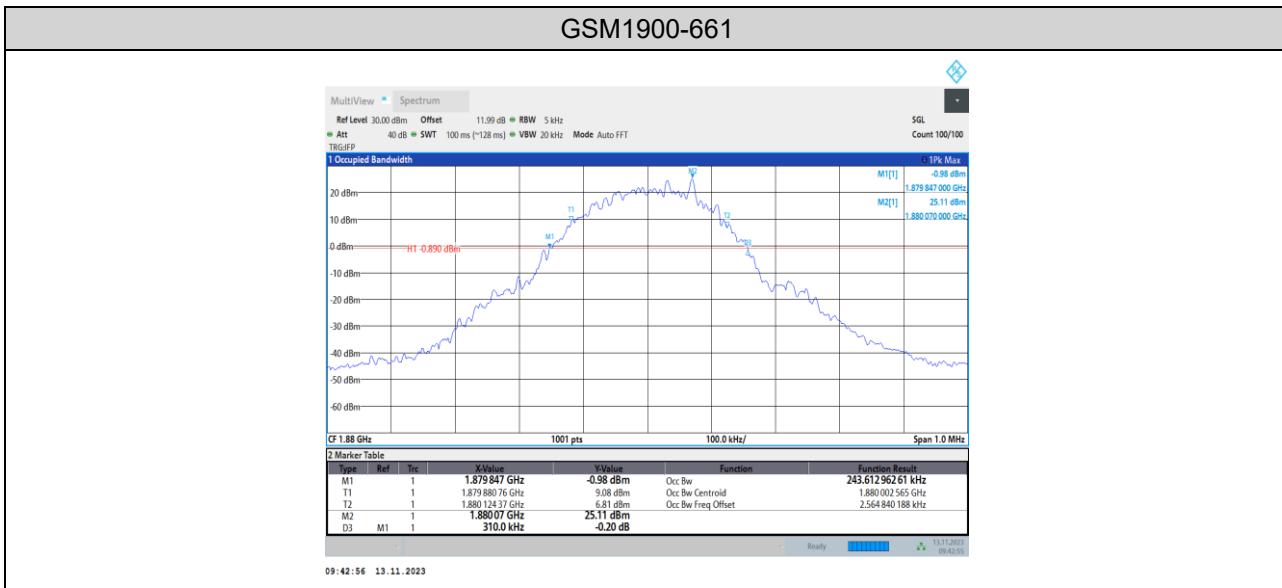
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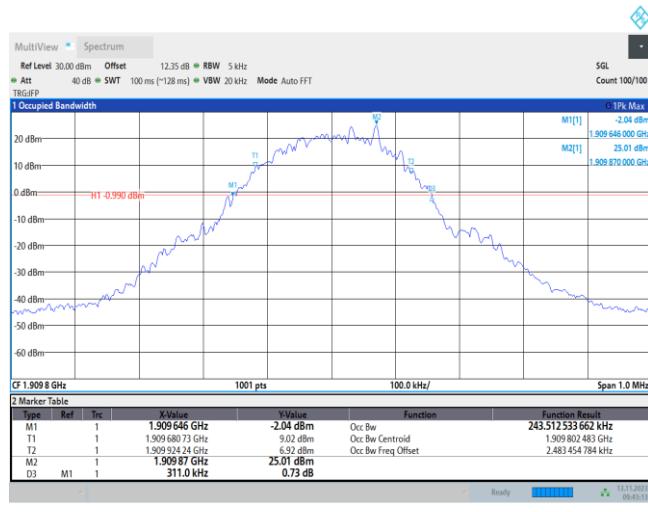
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## GSM1900-810



## EGPRS1900-512



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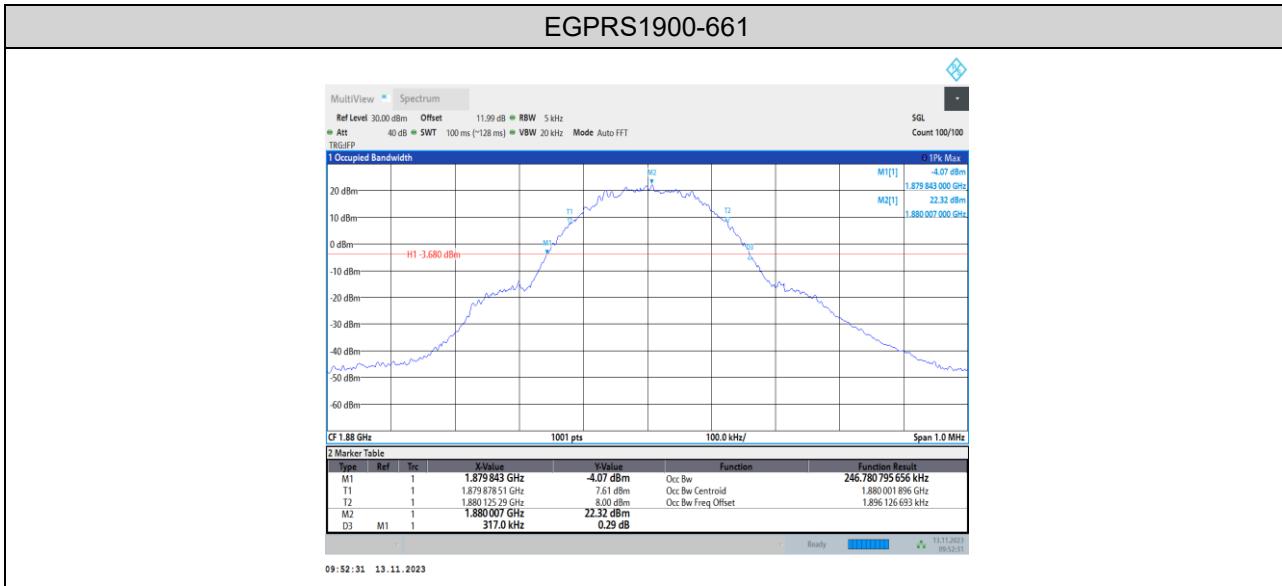
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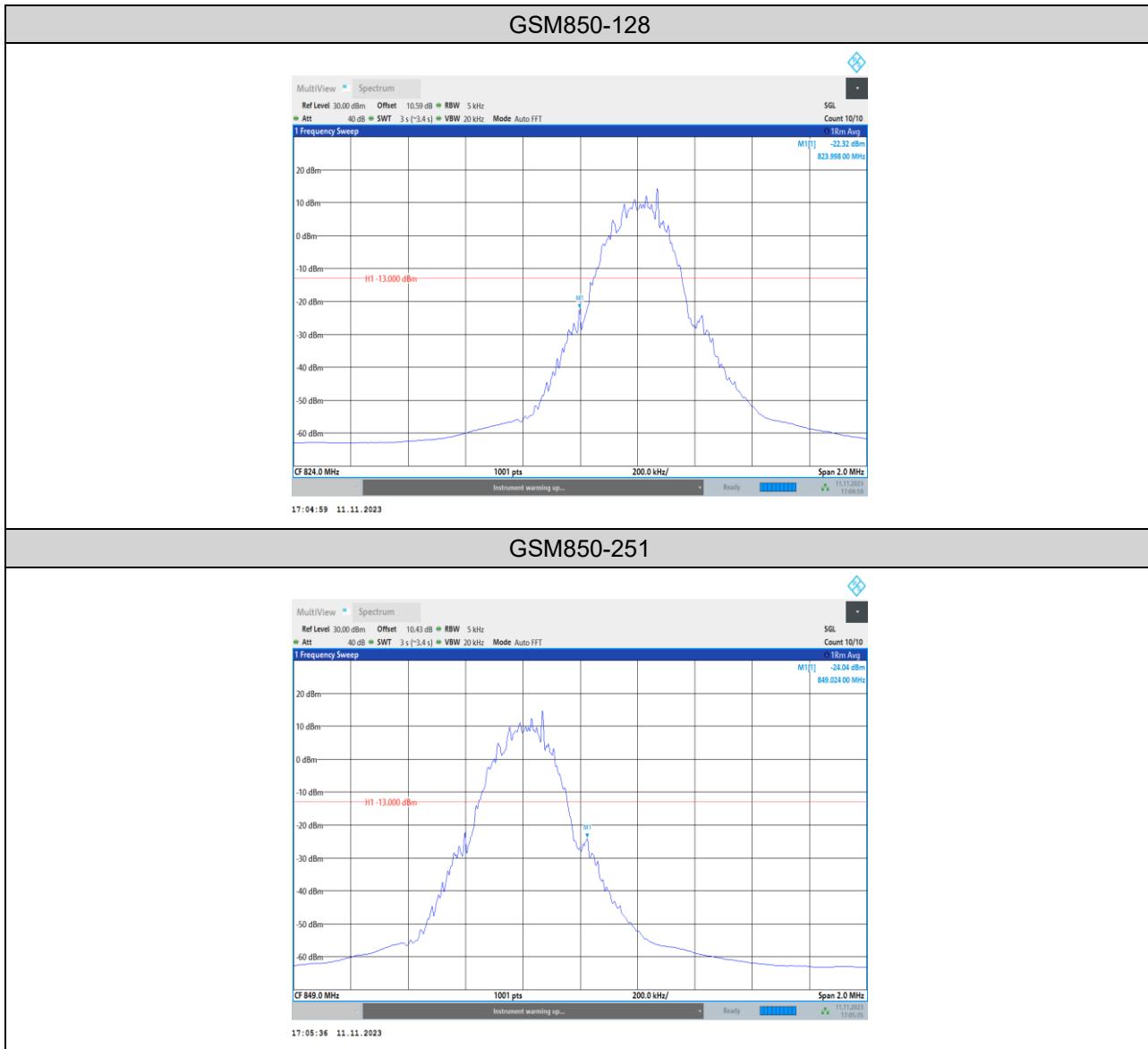
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## Band Edge

### Test Graphs



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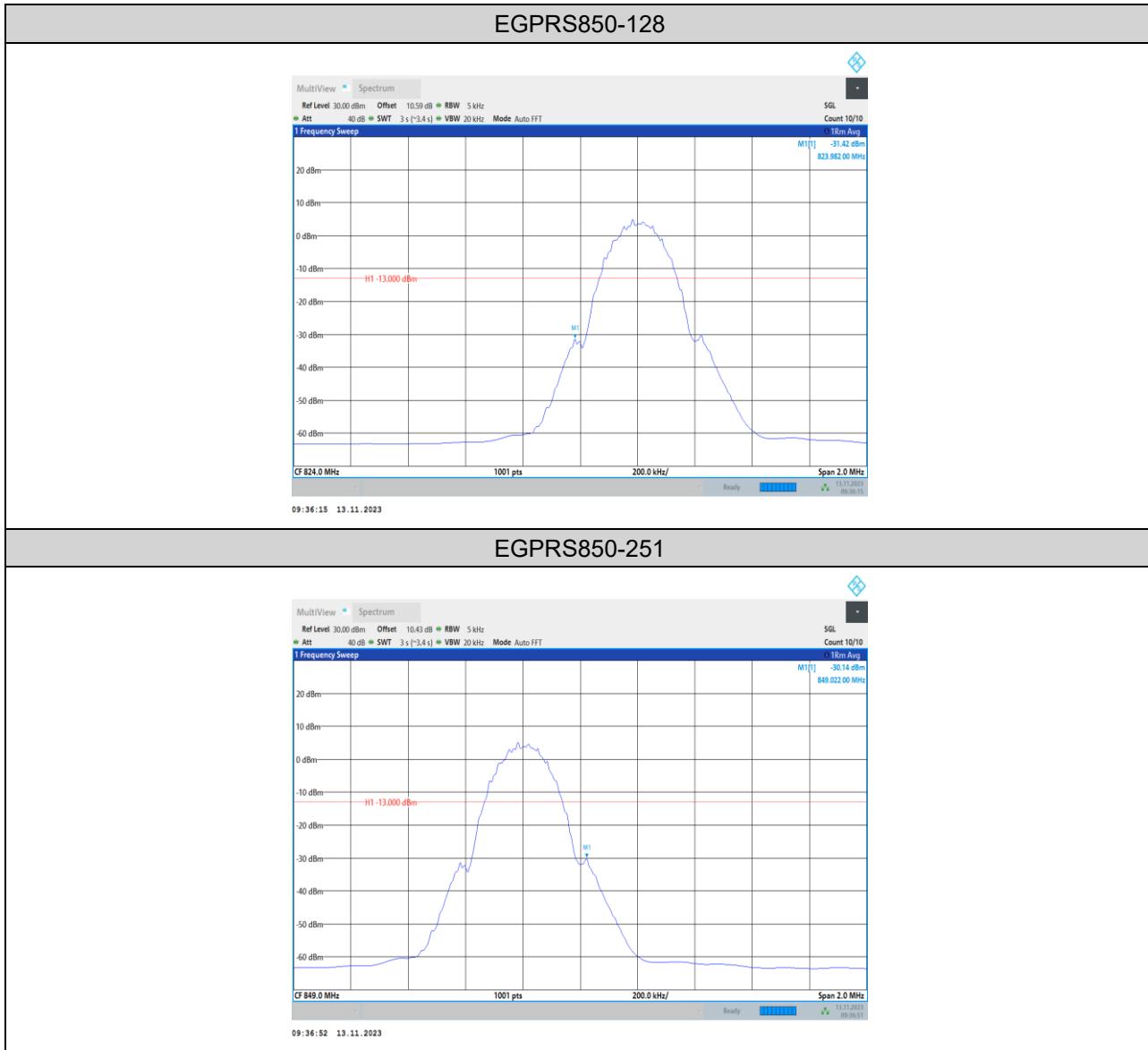
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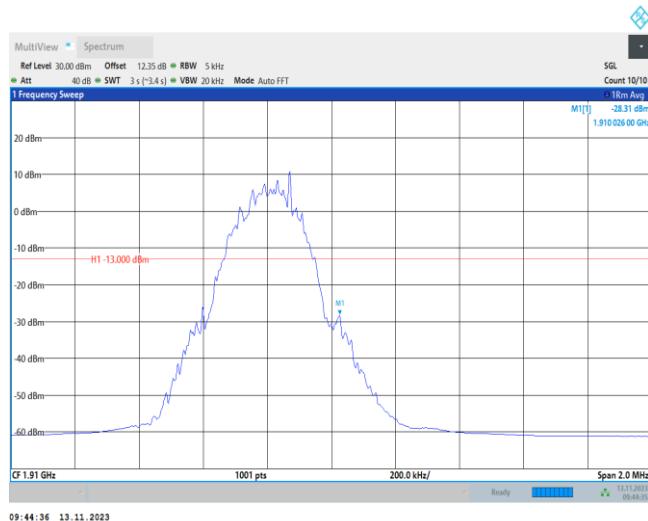
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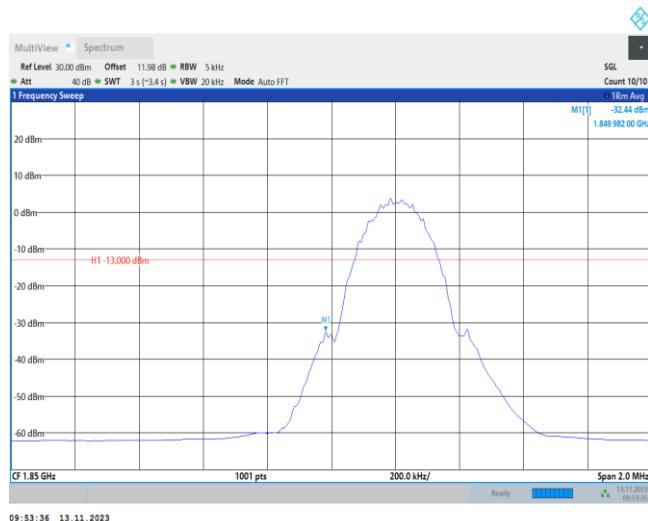
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## GSM1900-810



## EGPRS1900-512



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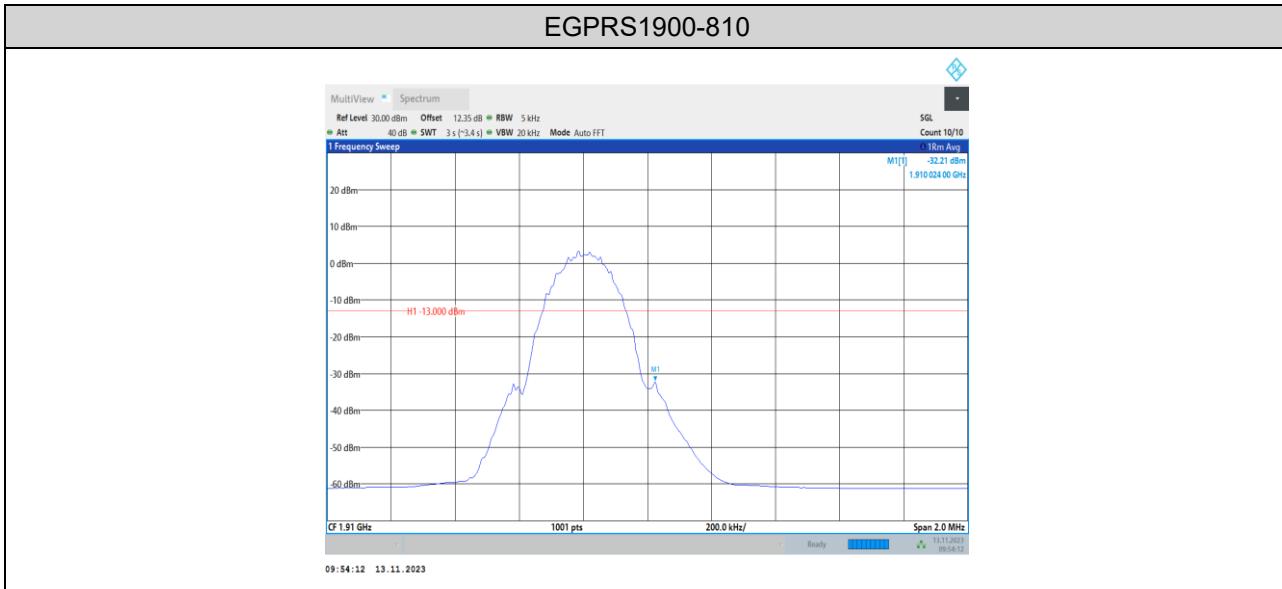
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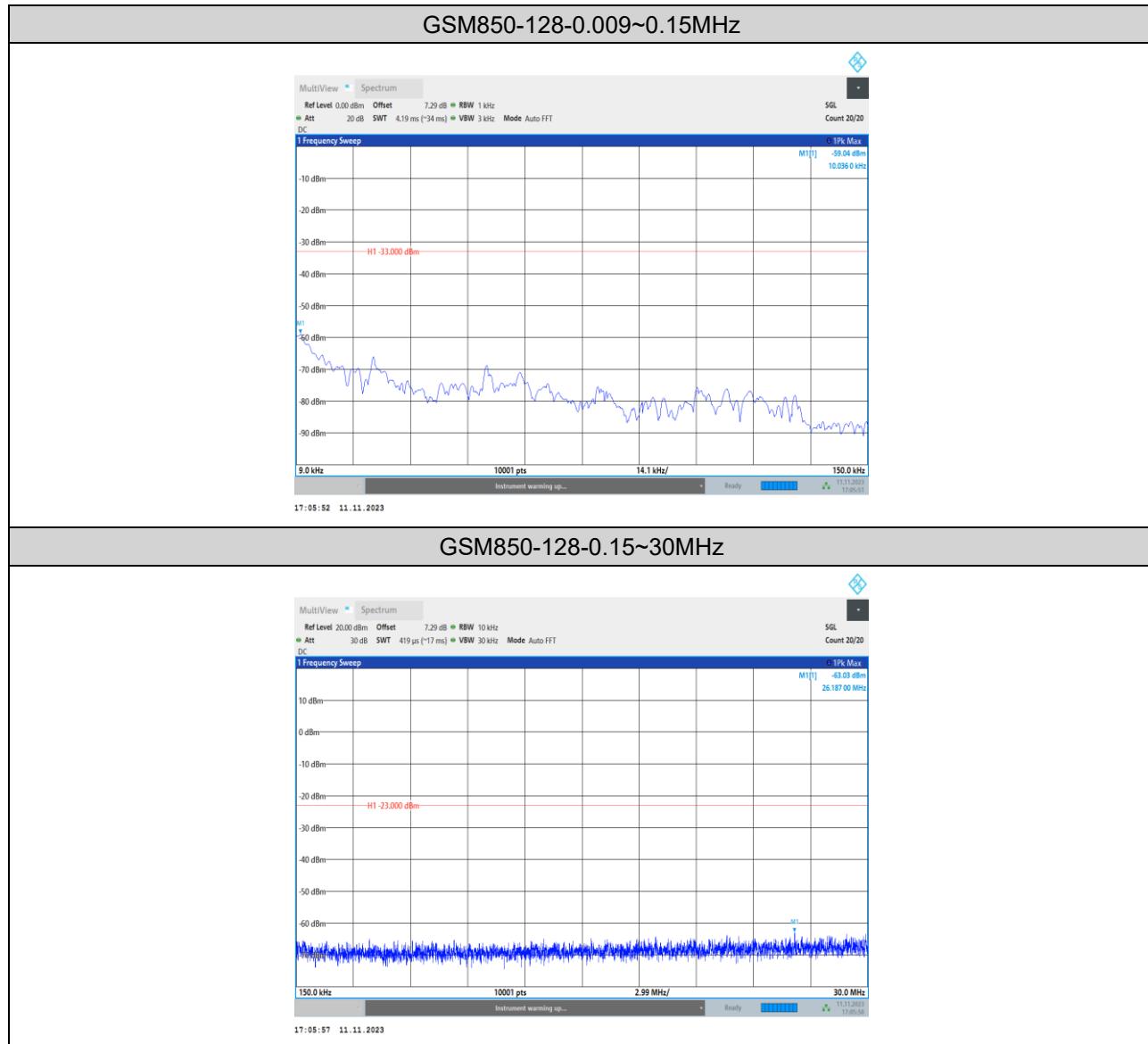
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## Conducted Spurious Emission

### Test Graphs



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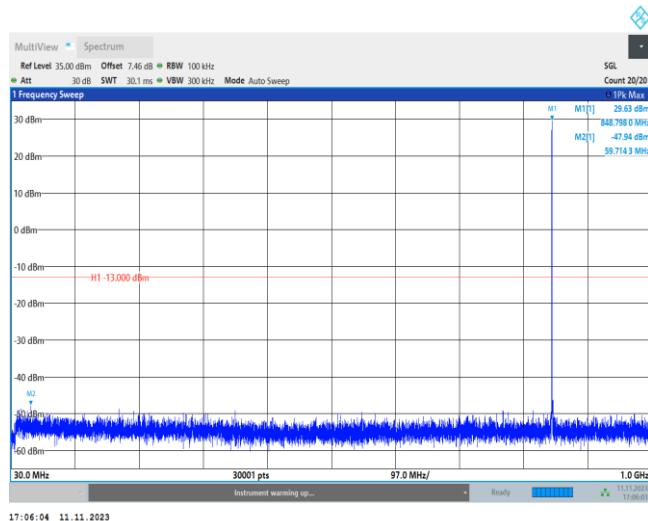
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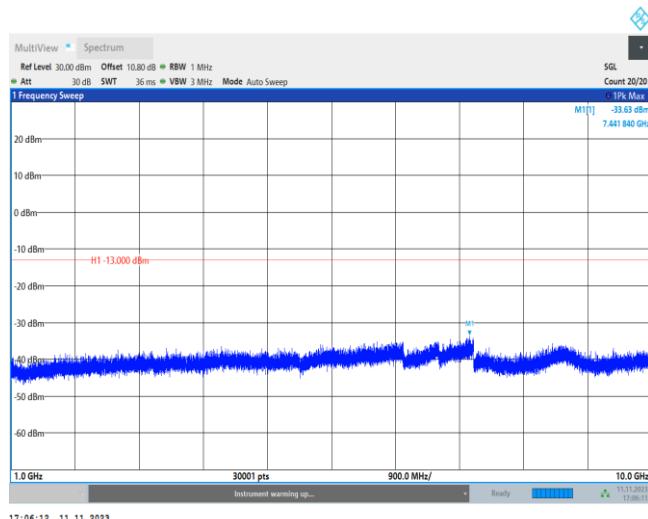
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## GSM850-128-30~1000MHz



## GSM850-128-1000~10000MHz



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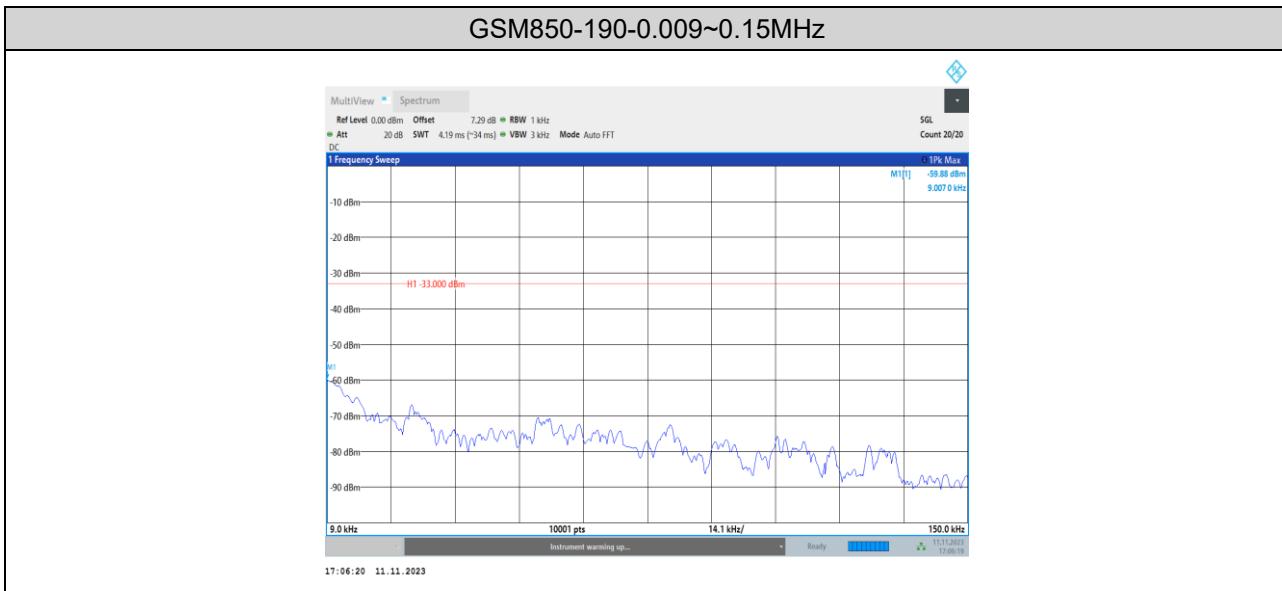
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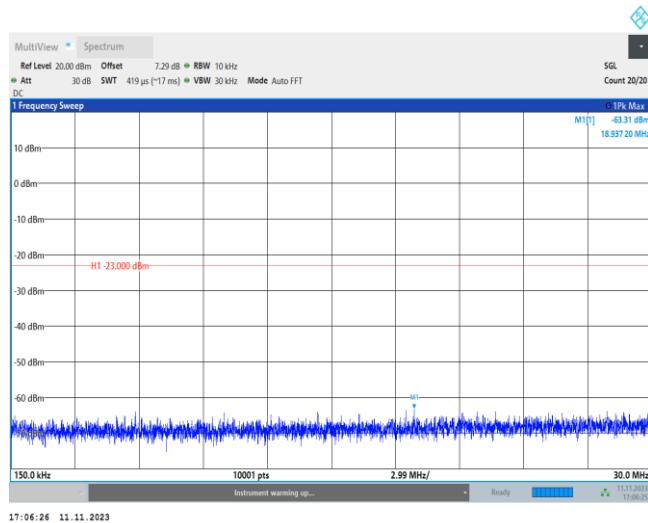
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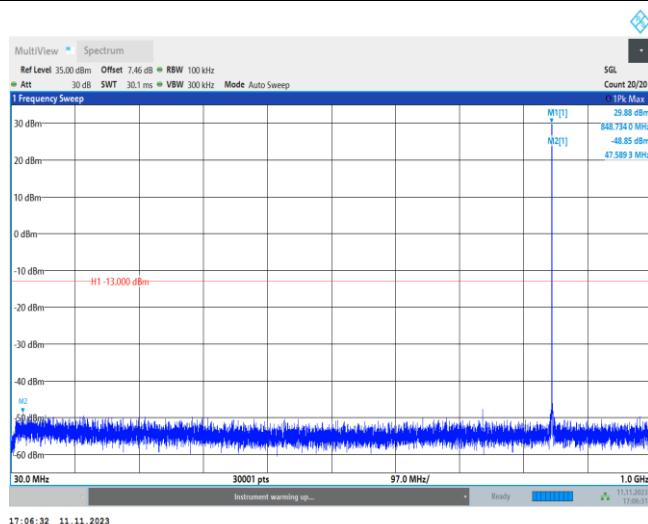
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## GSM850-190-0.15~30MHz



## GSM850-190-30~1000MHz



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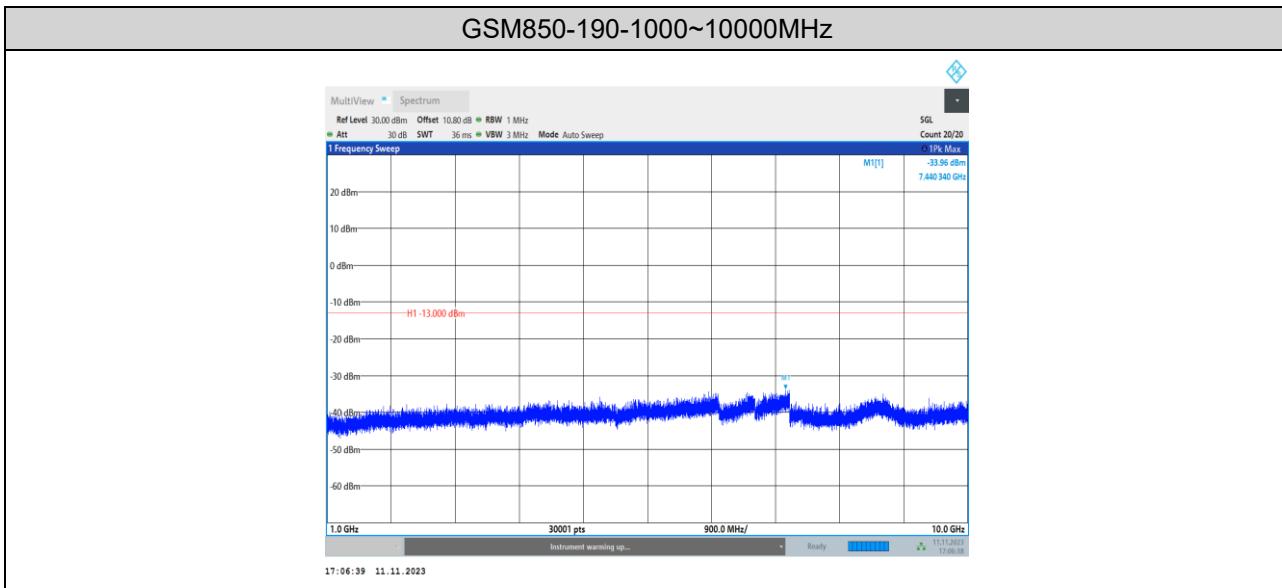
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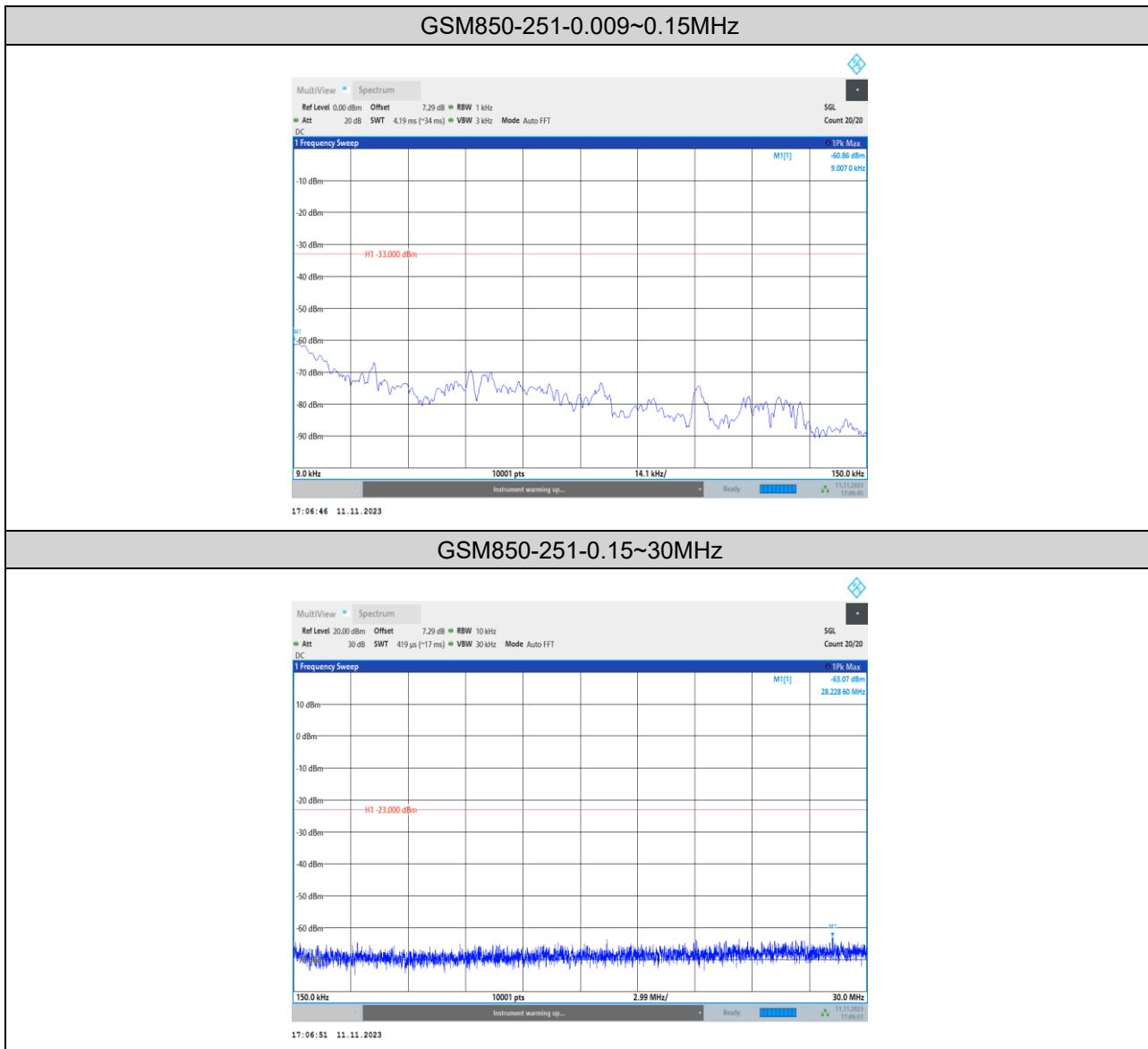
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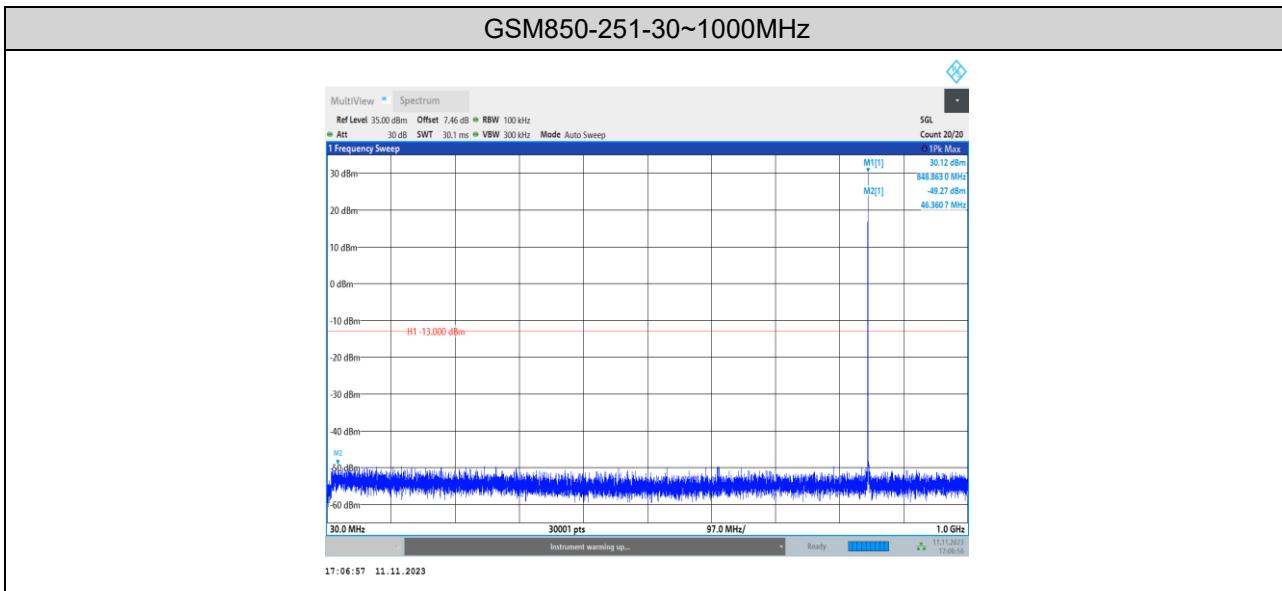
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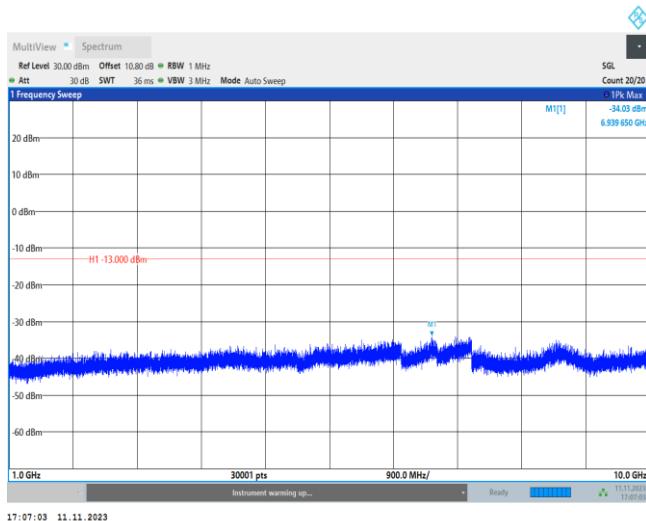
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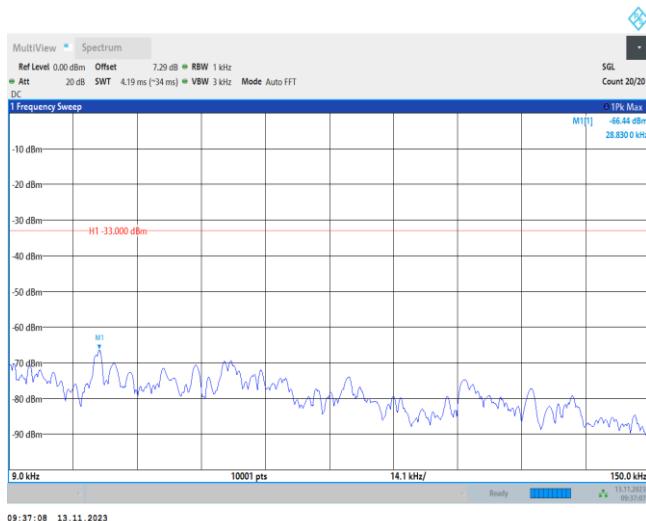
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## GSM850-251-1000~10000MHz



## EGPRS850-128-0.009~0.15MHz



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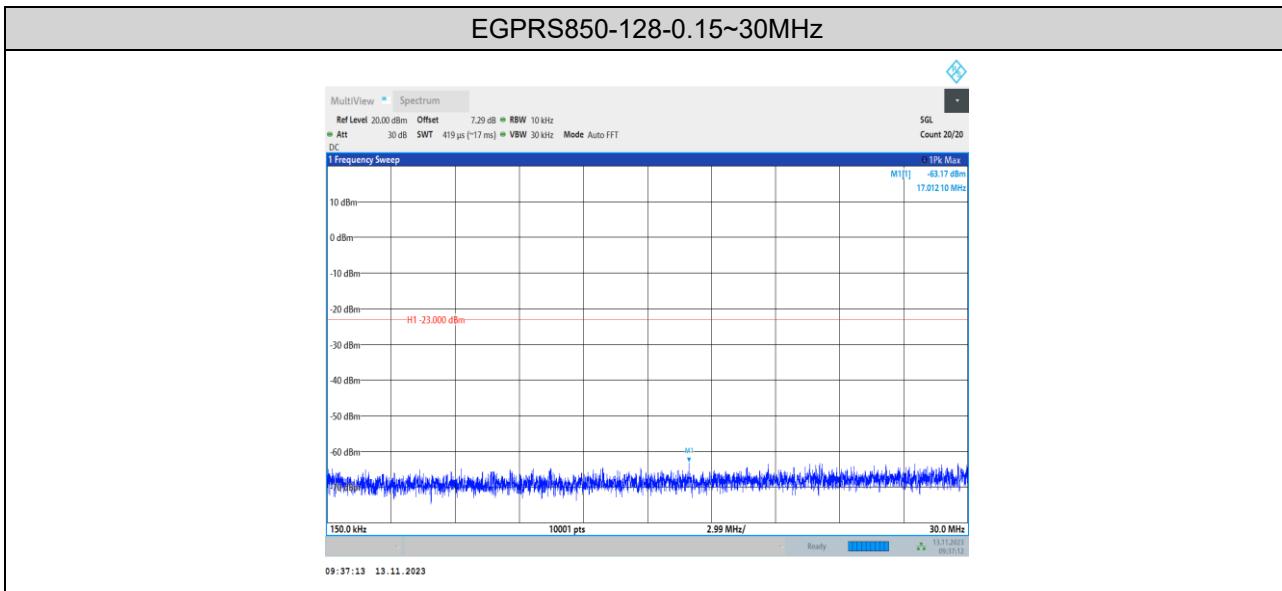
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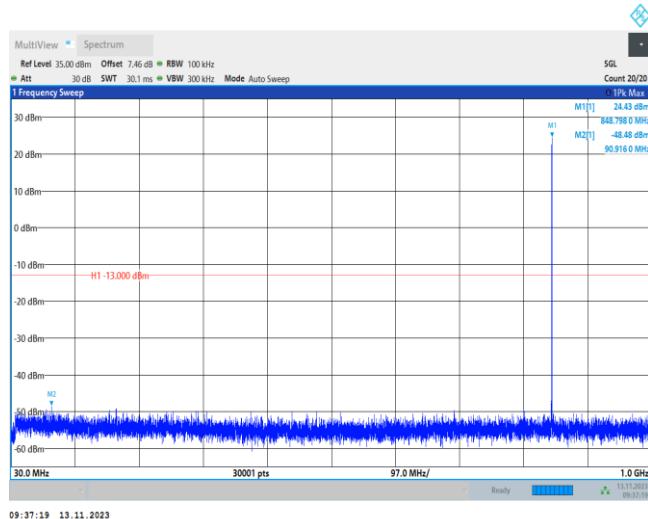
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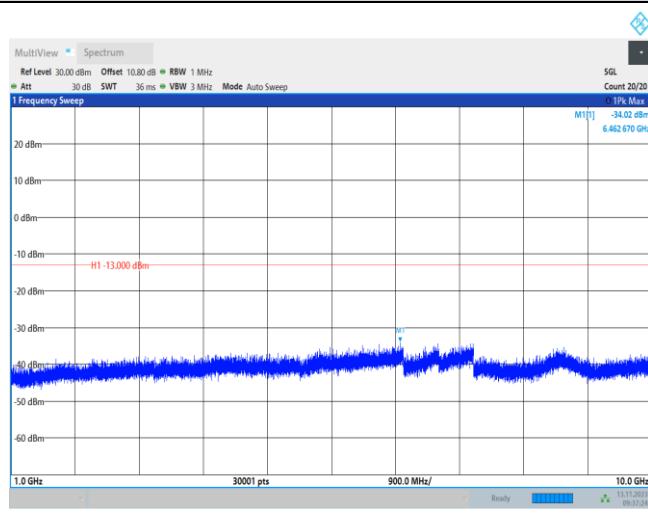
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## EGPRS850-128-30~1000MHz



## EGPRS850-128-1000~10000MHz



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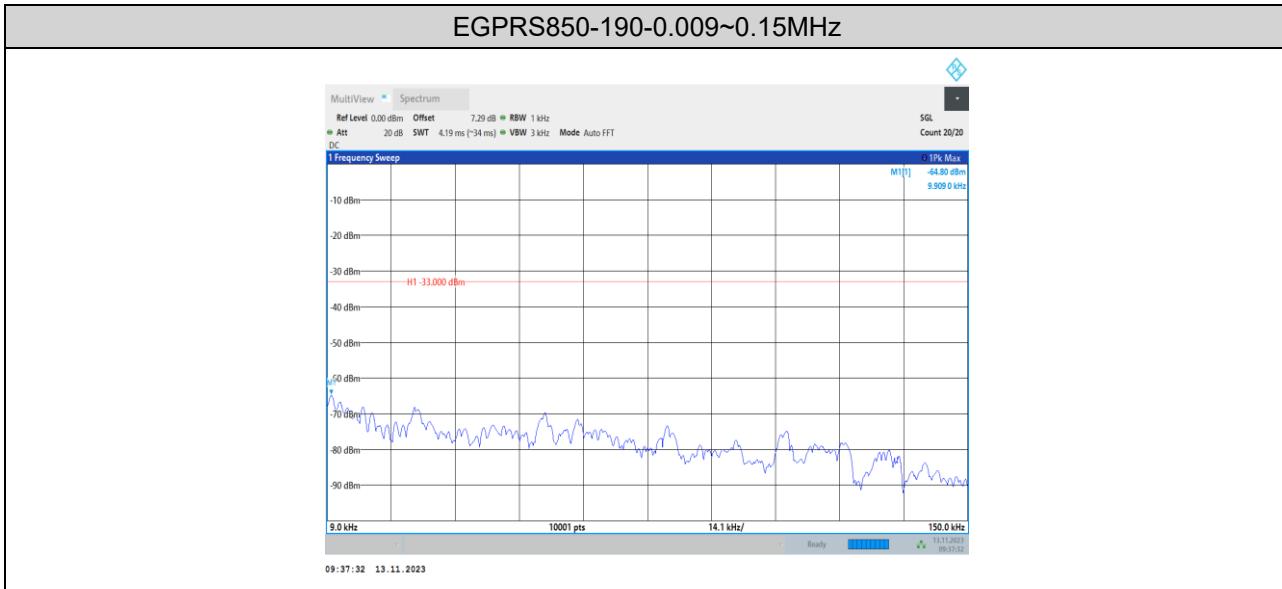
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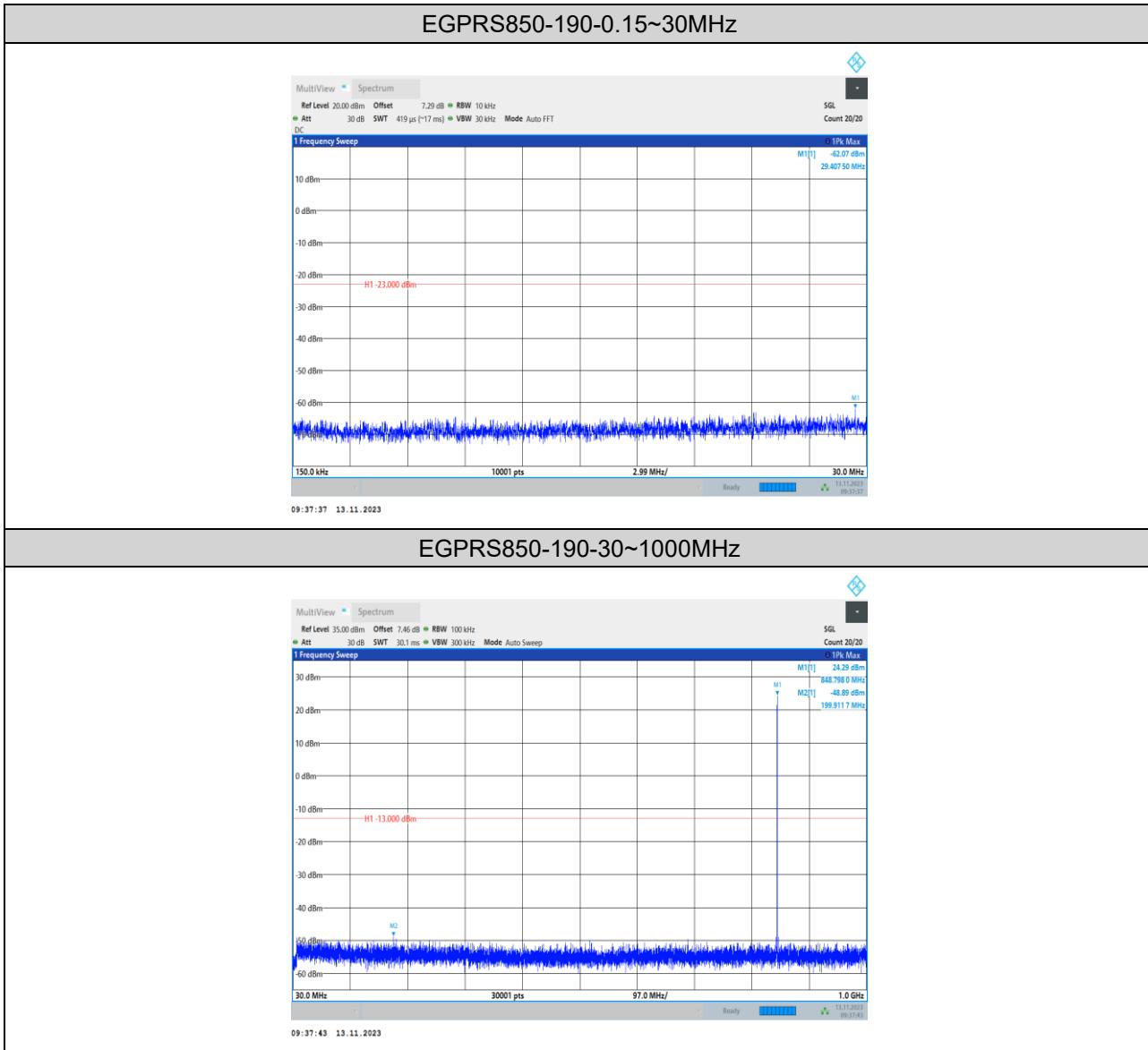
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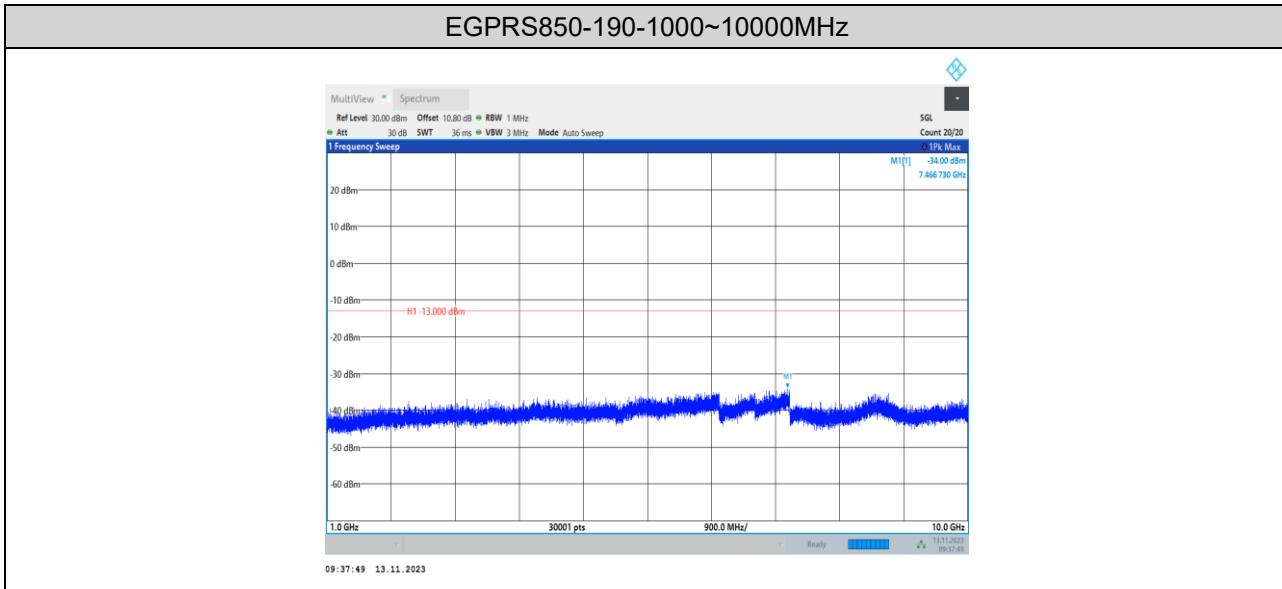
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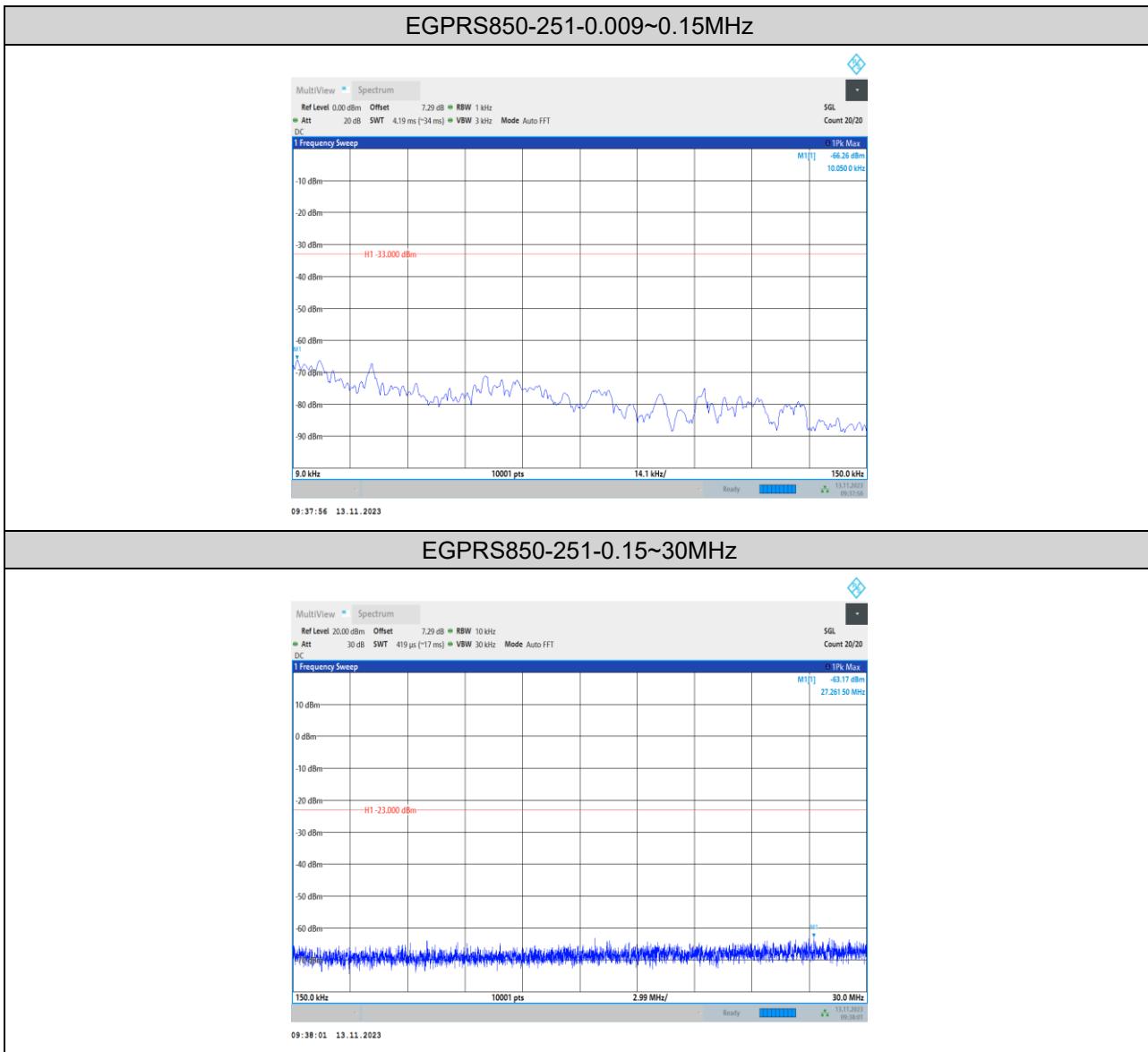
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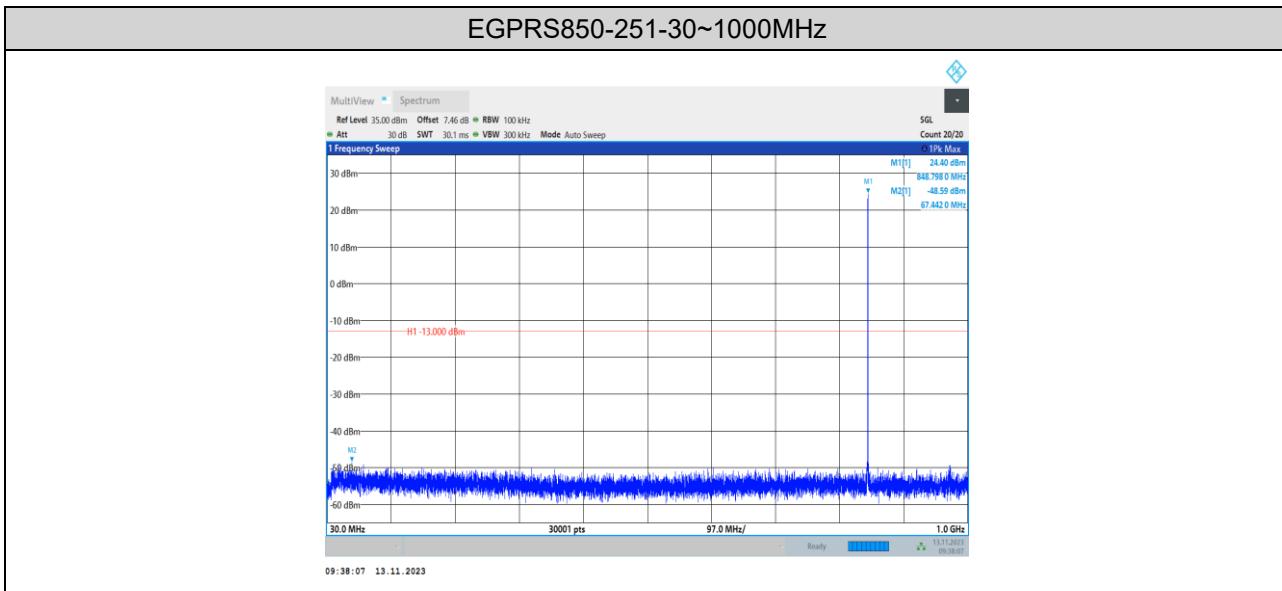
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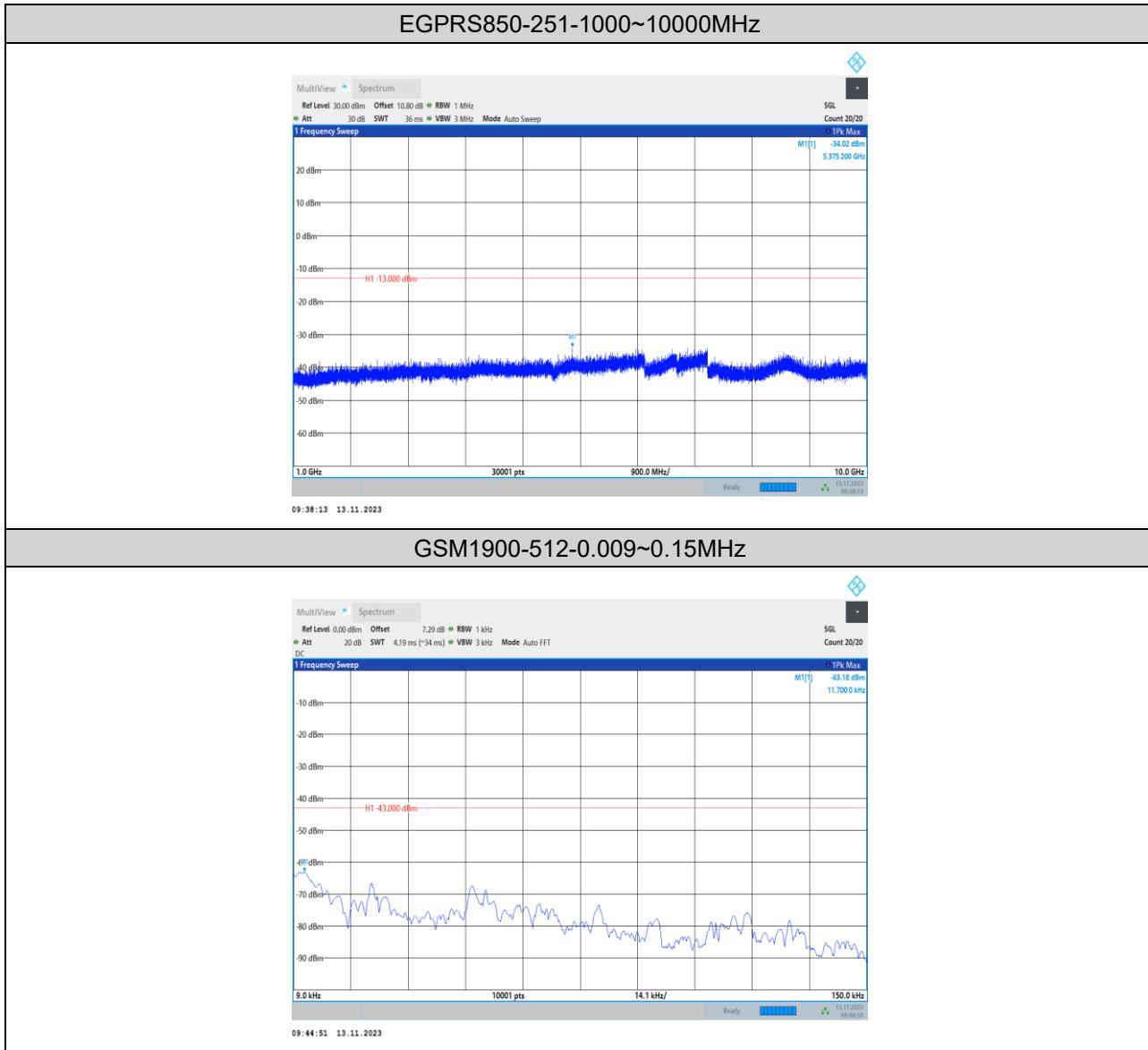
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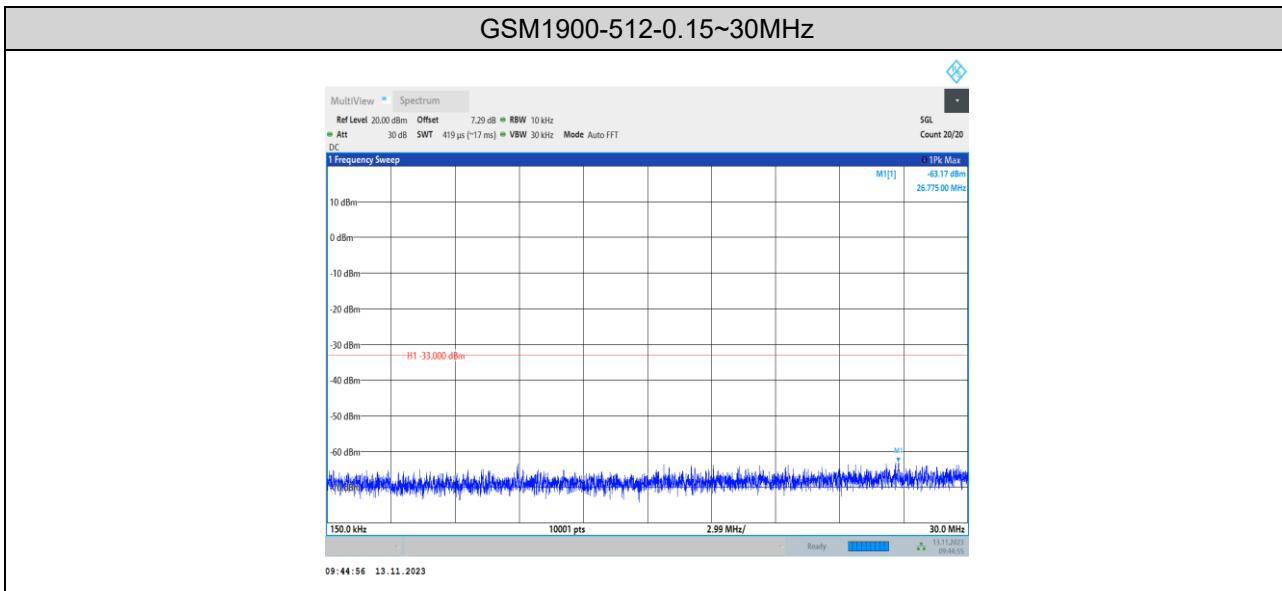
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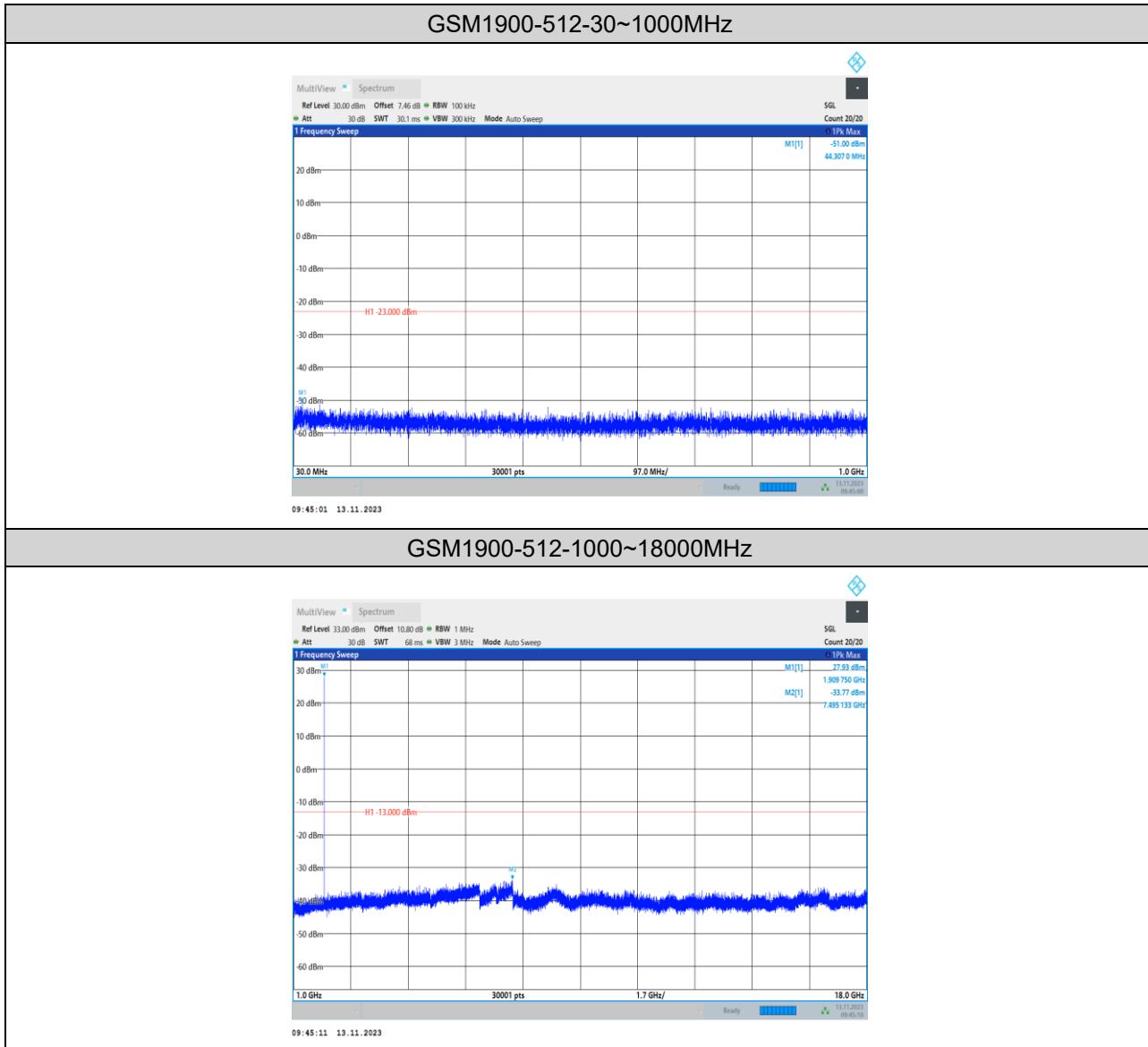
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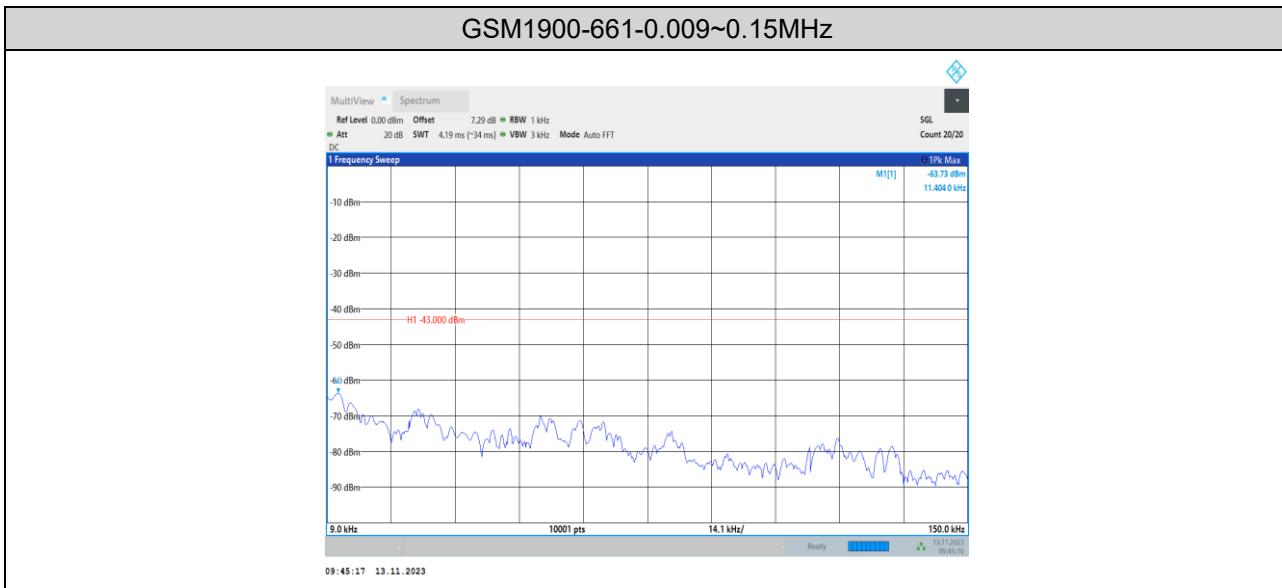
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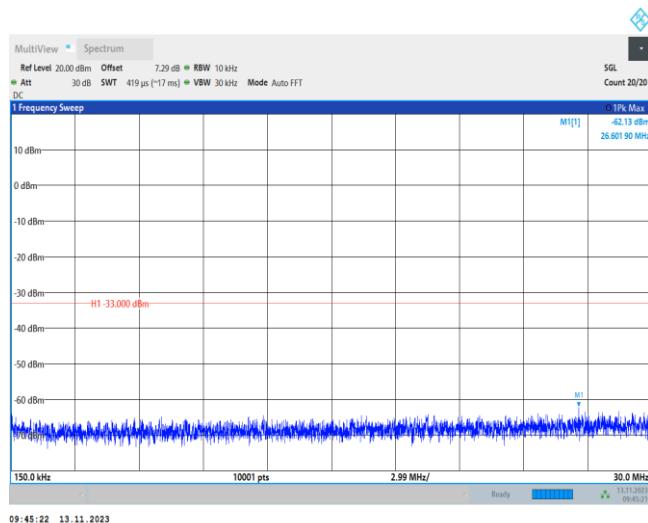
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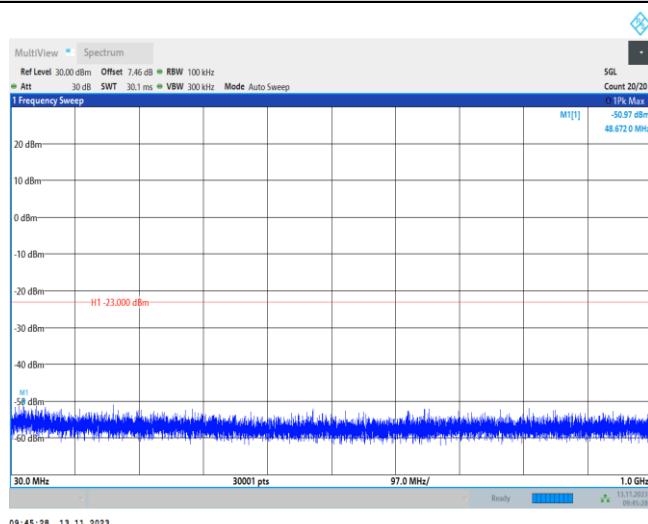
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## GSM1900-661-0.15~30MHz



## GSM1900-661-30~1000MHz



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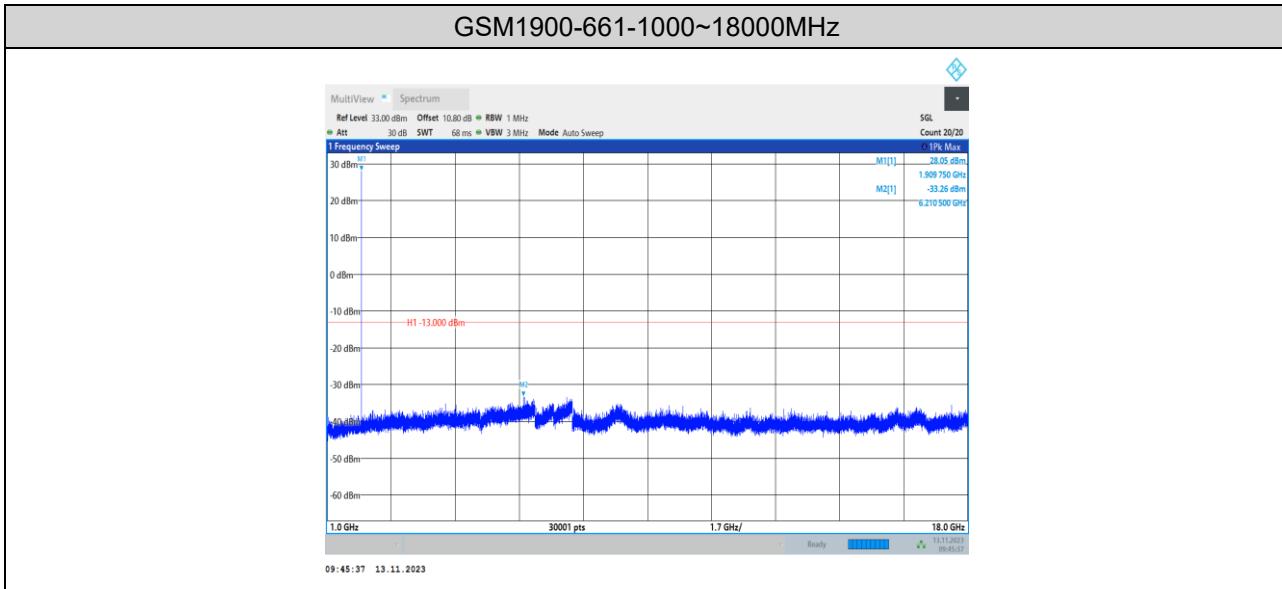
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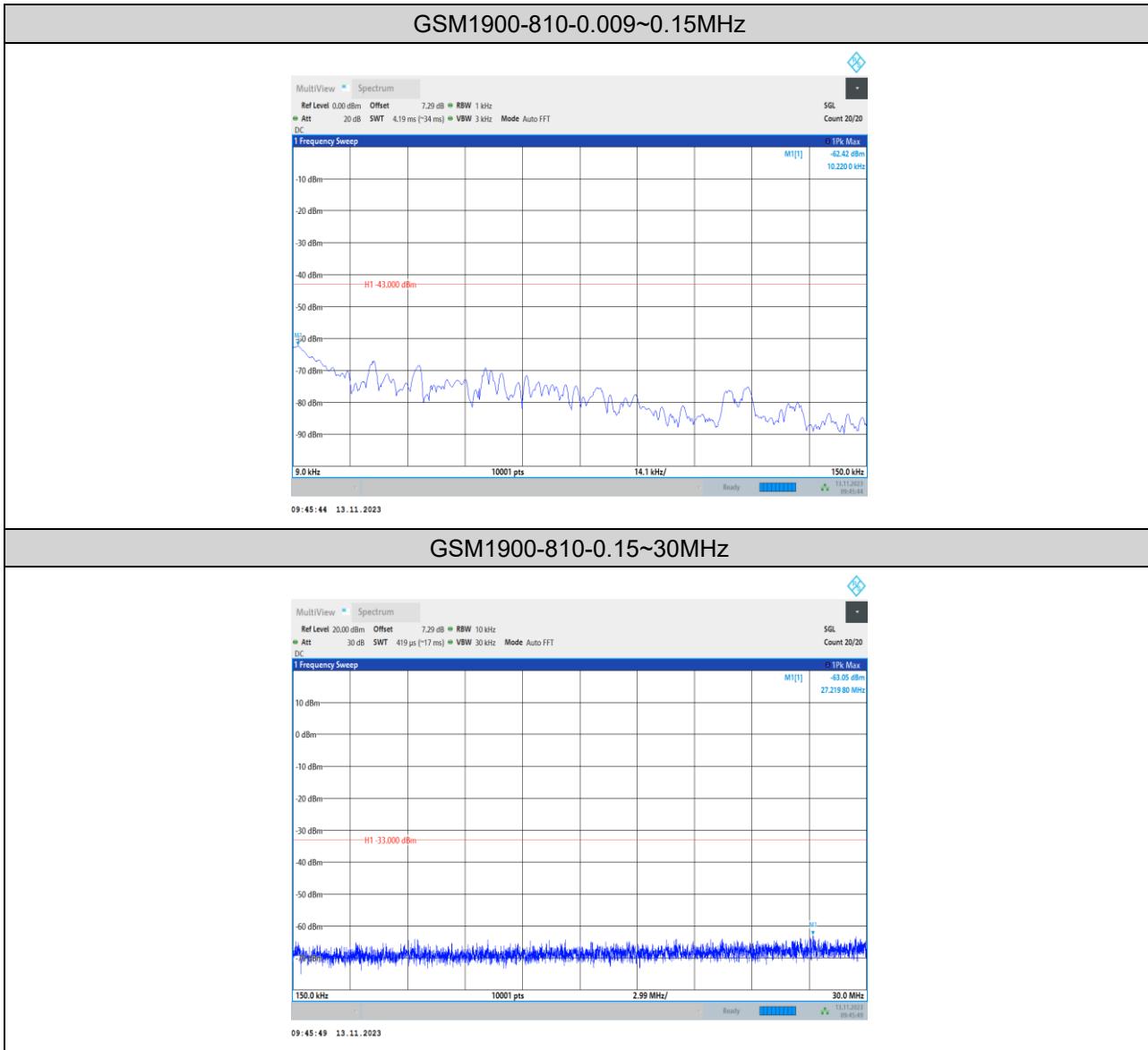
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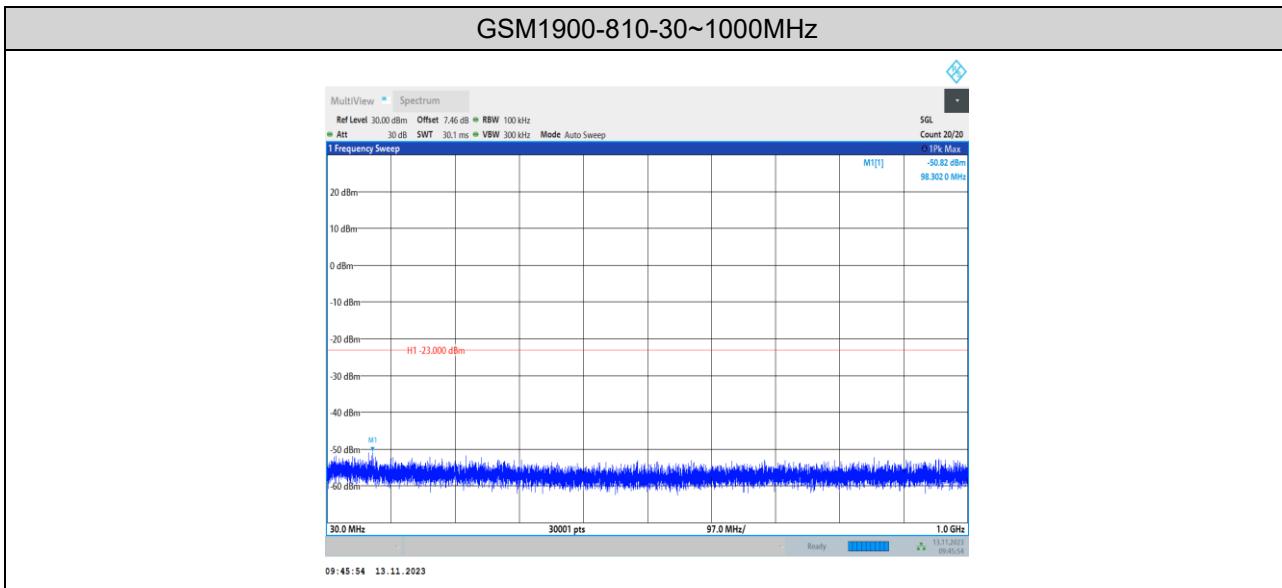
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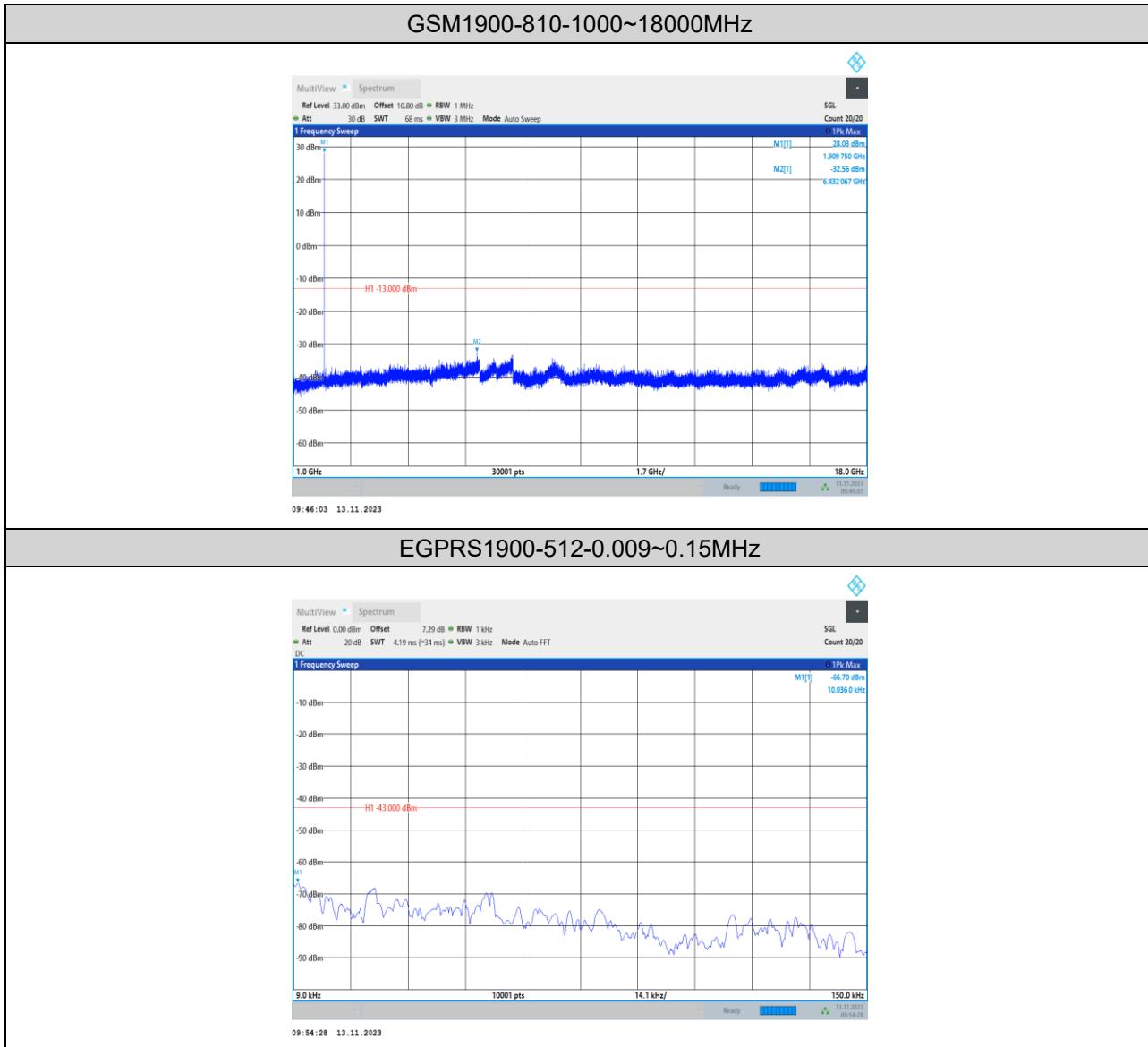
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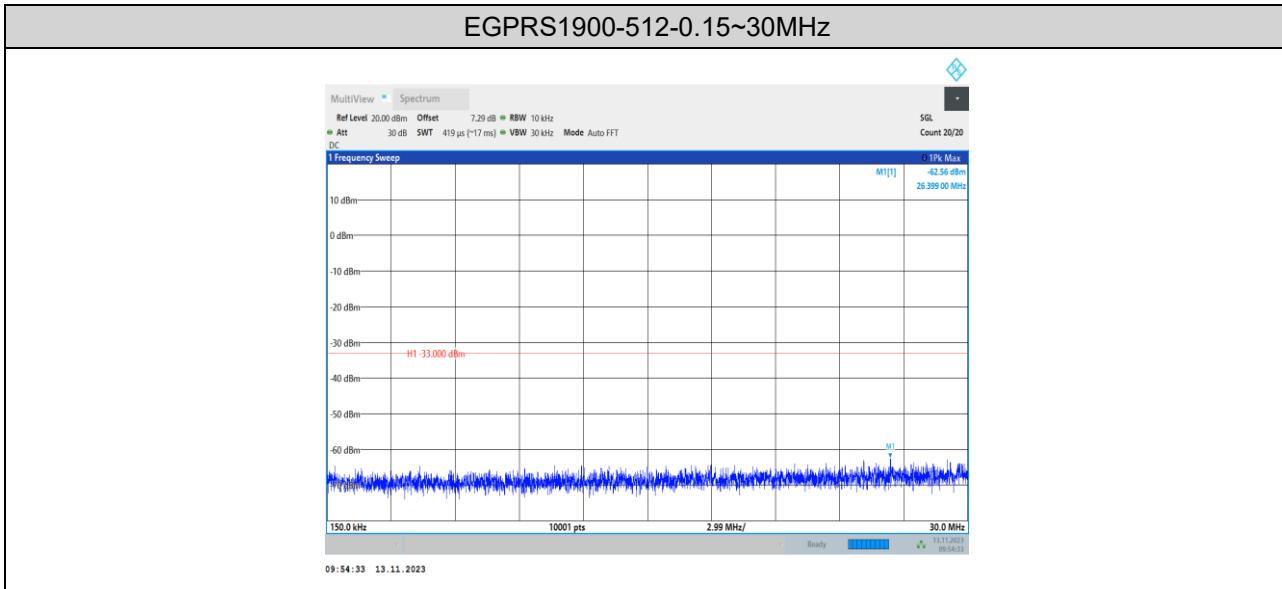
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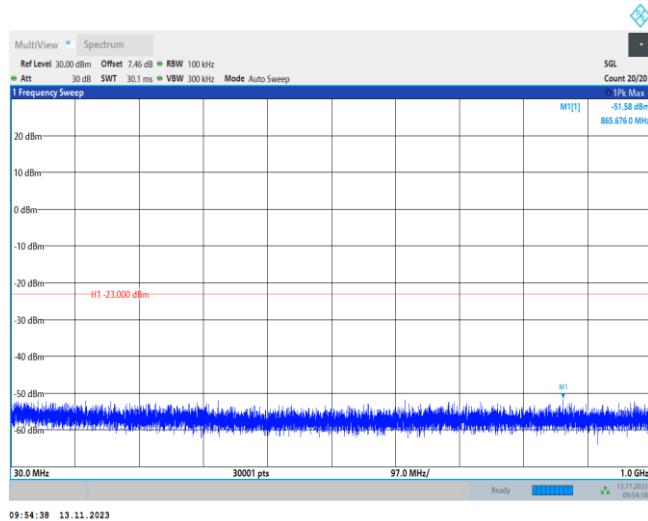
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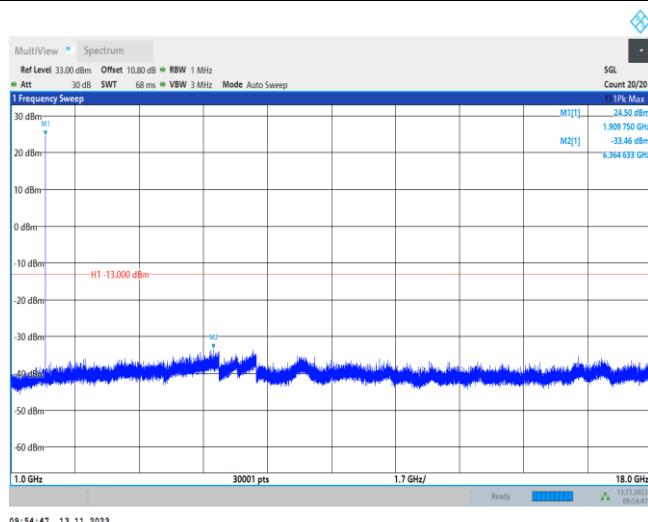
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## EGPRS1900-512-30~1000MHz



## EGPRS1900-512-1000~18000MHz



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## Field Strength of Spurious Radiation

Test Band = **GSM\_850**

Test Channel = **LCH**

Final Data List								
NO.	Freq. [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.5	63.11	-52.88	25.90	-59.13	-13.00	46.13	Horizontal
2	2472.5	55.83	-51.24	27.95	-62.72	-13.00	49.72	Horizontal
3	3308.5	52.95	-49.72	30.53	-61.50	-13.00	48.50	Horizontal
4	4524	52.20	-46.24	31.94	-57.36	-13.00	44.36	Horizontal
5	5687	51.65	-43.39	33.45	-53.55	-13.00	40.55	Horizontal
6	8924.5	49.18	-40.95	38.40	-48.63	-13.00	35.63	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.5	60.87	-52.88	25.90	-61.37	-13.00	48.37	Vertical
2	2473	54.79	-51.24	27.95	-63.76	-13.00	50.76	Vertical
3	3529.5	52.63	-49.17	29.98	-61.82	-13.00	48.82	Vertical
4	5121.5	51.92	-44.16	33.54	-53.96	-13.00	40.96	Vertical
5	7594.5	49.70	-42.05	36.71	-50.90	-13.00	37.90	Vertical
6	9469.5	49.19	-40.14	39.08	-47.13	-13.00	34.13	Vertical



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Test Band = GSM\_850

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.5	61.33	-52.77	25.86	-60.84	-13.00	47.84	Horizontal
2	2509.5	57.33	-51.14	28.06	-61.01	-13.00	48.01	Horizontal
3	3291.5	53.42	-49.75	30.68	-60.91	-13.00	47.91	Horizontal
4	4839.5	52.87	-44.91	32.72	-54.58	-13.00	41.58	Horizontal
5	6083	51.68	-43.84	34.47	-52.95	-13.00	39.95	Horizontal
6	8057.5	49.71	-41.68	37.59	-49.64	-13.00	36.64	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.5	64.54	-52.77	25.86	-57.63	-13.00	44.63	Vertical
2	2461.5	55.78	-51.26	27.92	-62.82	-13.00	49.82	Vertical
3	3226.5	53.36	-50.04	30.51	-61.43	-13.00	48.43	Vertical
4	4833.5	52.93	-44.89	32.67	-54.55	-13.00	41.55	Vertical
5	6708.5	50.97	-43.63	35.87	-52.05	-13.00	39.05	Vertical
6	9232	48.85	-40.03	38.99	-47.45	-13.00	34.45	Vertical



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Test Band = GSM\_850

Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1698	61.88	-52.66	25.80	-60.24	-13.00	47.24	Horizontal
2	2546.5	57.05	-50.92	28.28	-60.85	-13.00	47.85	Horizontal
3	3799.5	54.08	-48.22	30.50	-58.90	-13.00	45.90	Horizontal
4	4987	52.31	-44.02	33.13	-53.84	-13.00	40.84	Horizontal
5	7561	50.25	-42.08	36.78	-50.31	-13.00	37.31	Horizontal
6	9234	48.72	-39.99	39.00	-47.53	-13.00	34.53	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.5	64.06	-52.66	25.81	-58.05	-13.00	45.05	Vertical
2	2289	54.74	-51.85	27.58	-64.79	-13.00	51.79	Vertical
3	3288.5	53.50	-49.76	30.68	-60.84	-13.00	47.84	Vertical
4	4976	52.15	-44.05	33.15	-54.01	-13.00	41.01	Vertical
5	7361.5	50.66	-42.74	36.88	-50.46	-13.00	37.46	Vertical
6	9730	47.82	-39.03	38.76	-47.71	-13.00	34.71	Vertical



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Test Band = GSM\_1900

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3620.281	54.38	-49.44	30.28	-60.04	-13.00	47.04	Horizontal
2	5693.3847	51.80	-44.79	33.47	-54.78	-13.00	41.78	Horizontal
3	8080.754	50.25	-43.31	37.54	-50.78	-13.00	37.78	Horizontal
4	11029.1515	48.43	-39.50	39.47	-46.86	-13.00	33.86	Horizontal
5	15037.3519	48.76	-39.05	39.86	-45.69	-13.00	32.69	Horizontal
6	17990.2495	50.64	-43.95	42.74	-45.83	-13.00	32.83	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3989.2995	53.63	-49.07	31.06	-59.64	-13.00	46.64	Vertical
2	5697.1349	51.88	-44.75	33.49	-54.64	-13.00	41.64	Vertical
3	7691.4846	51.36	-43.55	36.88	-50.57	-13.00	37.57	Vertical
4	10632.3816	48.78	-40.24	39.36	-47.36	-13.00	34.36	Vertical
5	15008.8504	48.56	-38.83	39.89	-45.64	-13.00	32.64	Vertical
6	17915.2458	49.82	-42.98	42.29	-46.13	-13.00	33.13	Vertical



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Test Band = GSM\_1900

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3611.2806	54.32	-49.53	30.25	-60.22	-13.00	47.22	Horizontal
2	4989.8495	52.43	-46.96	33.12	-56.67	-13.00	43.67	Horizontal
3	6939.197	51.46	-44.54	36.36	-51.98	-13.00	38.98	Horizontal
4	8993.5497	49.53	-41.71	38.76	-48.68	-13.00	35.68	Horizontal
5	12342.4671	48.35	-38.23	39.66	-45.48	-13.00	32.48	Horizontal
6	17981.2491	50.39	-43.74	42.69	-45.92	-13.00	32.92	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3622.5311	53.76	-49.41	30.29	-60.62	-13.00	47.62	Vertical
2	5236.6118	52.17	-46.46	33.11	-56.44	-13.00	43.44	Vertical
3	7483.7242	50.79	-43.29	36.63	-51.13	-13.00	38.13	Vertical
4	10954.1477	48.57	-39.57	39.55	-46.71	-13.00	33.71	Vertical
5	13200.51	47.47	-38.73	40.40	-46.12	-13.00	33.12	Vertical
6	17983.4992	50.49	-43.79	42.70	-45.86	-13.00	32.86	Vertical



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Test Band = GSM\_1900

Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3621.0311	54.08	-49.43	30.28	-60.33	-13.00	47.33	Horizontal
2	4513.5757	53.36	-48.14	31.88	-58.16	-13.00	45.16	Horizontal
3	5877.1439	51.99	-45.70	34.21	-54.76	-13.00	41.76	Horizontal
4	7119.956	51.08	-43.91	36.98	-51.11	-13.00	38.11	Horizontal
5	9027.3014	49.58	-41.77	38.75	-48.70	-13.00	35.70	Horizontal
6	12238.9619	48.22	-37.96	39.58	-45.42	-13.00	32.42	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3621.0311	54.04	-49.43	30.28	-60.37	-13.00	47.37	Vertical
2	5450.3725	51.87	-45.55	33.40	-55.54	-13.00	42.54	Vertical
3	7968.2484	50.49	-43.49	37.46	-50.80	-13.00	37.80	Vertical
4	10960.148	48.21	-39.57	39.54	-47.08	-13.00	34.08	Vertical
5	14146.3073	48.05	-39.13	40.75	-45.59	-13.00	32.59	Vertical
6	17919.746	50.05	-42.98	42.32	-45.87	-13.00	32.87	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability

### Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	VL	NT	12.56	0.015013	±2.5	PASS
GSM850	190	VN	NT	11.88	0.014200	±2.5	PASS
GSM850	190	VH	NT	11.27	0.013471	±2.5	PASS
EGPRS850	190	VL	NT	4.97	0.005941	±2.5	PASS
EGPRS850	190	VN	NT	2.00	0.002391	±2.5	PASS
EGPRS850	190	VH	NT	5.88	0.007028	±2.5	PASS

Voltage						
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	VL	NT	23.92	0.012723	PASS
GSM1900	661	VN	NT	24.86	0.013223	PASS
GSM1900	661	VH	NT	22.02	0.011713	PASS
EGPRS1900	661	VL	NT	15.27	0.008122	PASS
EGPRS1900	661	VN	NT	17.05	0.009069	PASS
EGPRS1900	661	VH	NT	14.59	0.007761	PASS



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Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	10.36	0.012383	±2.5	PASS
GSM850	190	NV	-20	12.11	0.014475	±2.5	PASS
GSM850	190	NV	-10	9.88	0.011810	±2.5	PASS
GSM850	190	NV	0	9.52	0.011379	±2.5	PASS
GSM850	190	NV	10	11.78	0.014081	±2.5	PASS
GSM850	190	NV	20	8.68	0.010375	±2.5	PASS
GSM850	190	NV	30	8.30	0.009921	±2.5	PASS
GSM850	190	NV	40	8.23	0.009837	±2.5	PASS
GSM850	190	NV	50	10.49	0.012539	±2.5	PASS
EGPRS850	190	NV	-30	2.71	0.003239	±2.5	PASS
EGPRS850	190	NV	-20	4.13	0.004937	±2.5	PASS
EGPRS850	190	NV	-10	5.20	0.006216	±2.5	PASS
EGPRS850	190	NV	0	2.39	0.002857	±2.5	PASS
EGPRS850	190	NV	10	0.77	0.000920	±2.5	PASS
EGPRS850	190	NV	20	7.55	0.009025	±2.5	PASS
EGPRS850	190	NV	30	8.07	0.009646	±2.5	PASS
EGPRS850	190	NV	40	9.81	0.011726	±2.5	PASS
EGPRS850	190	NV	50	7.59	0.009072	±2.5	PASS



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Band	Channel	Voltage [Vdc]	Temperature			
			Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	NV	-30	22.05	0.011729	PASS
GSM1900	661	NV	-20	22.08	0.011745	PASS
GSM1900	661	NV	-10	19.95	0.010612	PASS
GSM1900	661	NV	0	27.83	0.014803	PASS
GSM1900	661	NV	10	24.15	0.012846	PASS
GSM1900	661	NV	20	22.63	0.012037	PASS
GSM1900	661	NV	30	21.18	0.011266	PASS
GSM1900	661	NV	40	26.12	0.013894	PASS
GSM1900	661	NV	50	25.83	0.013739	PASS
EGPRS1900	661	NV	-30	13.17	0.007005	PASS
EGPRS1900	661	NV	-20	16.05	0.008537	PASS
EGPRS1900	661	NV	-10	17.53	0.009324	PASS
EGPRS1900	661	NV	0	18.05	0.009601	PASS
EGPRS1900	661	NV	10	16.08	0.008553	PASS
EGPRS1900	661	NV	20	21.11	0.011229	PASS
EGPRS1900	661	NV	30	23.92	0.012723	PASS
EGPRS1900	661	NV	40	25.02	0.013309	PASS
EGPRS1900	661	NV	50	26.25	0.013963	PASS

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