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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	31.19	31.6	38.45	PASS
GSM850	190	31.36	31.77	38.45	PASS
GSM850	251	31.20	31.61	38.45	PASS
Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	27.88	29.81	33	PASS
GSM1900	661	27.55	29.48	33	PASS
GSM1900	810	27.50	29.43	33	PASS



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Band	Channel	Slot	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	26.46	26.87	38.45	PASS
EGPRS850	128	2	26.35	26.76	38.45	PASS
EGPRS850	128	3	26.24	26.65	38.45	PASS
EGPRS850	128	4	26.13	26.54	38.45	PASS
EGPRS850	190	1	26.66	27.07	38.45	PASS
EGPRS850	190	2	26.61	27.02	38.45	PASS
EGPRS850	190	3	26.51	26.92	38.45	PASS
EGPRS850	190	4	26.4	26.81	38.45	PASS
EGPRS850	251	1	26.39	26.80	38.45	PASS
EGPRS850	251	2	26.35	26.76	38.45	PASS
EGPRS850	251	3	26.26	26.67	38.45	PASS
EGPRS850	251	4	26.2	26.61	38.45	PASS
Band	Channel	Slot	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	26.22	28.15	33.00	PASS
EGPRS1900	512	2	26.1	28.03	33.00	PASS
EGPRS1900	512	3	26.05	27.98	33.00	PASS
EGPRS1900	512	4	25.09	27.02	33.00	PASS
EGPRS1900	661	1	26.14	28.07	33.00	PASS
EGPRS1900	661	2	26.11	28.04	33.00	PASS
EGPRS1900	661	3	26.05	27.98	33.00	PASS
EGPRS1900	661	4	25.18	27.11	33.00	PASS
EGPRS1900	810	1	26.21	28.14	33.00	PASS
EGPRS1900	810	2	26.16	28.09	33.00	PASS
EGPRS1900	810	3	26.11	28.04	33.00	PASS
EGPRS1900	810	4	25.21	27.14	33.00	PASS

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Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	7.82	13	PASS
GSM850	190	7.64	13	PASS
GSM850	251	7.82	13	PASS
EGPRS850	128	12.84	13	PASS
EGPRS850	190	12.7	13	PASS
EGPRS850	251	12.76	13	PASS
GSM1900	512	10.54	13	PASS
GSM1900	661	10.6	13	PASS
GSM1900	810	10.58	13	PASS
EGPRS1900	512	12.52	13	PASS
EGPRS1900	661	12.34	13	PASS
EGPRS1900	810	12.38	13	PASS

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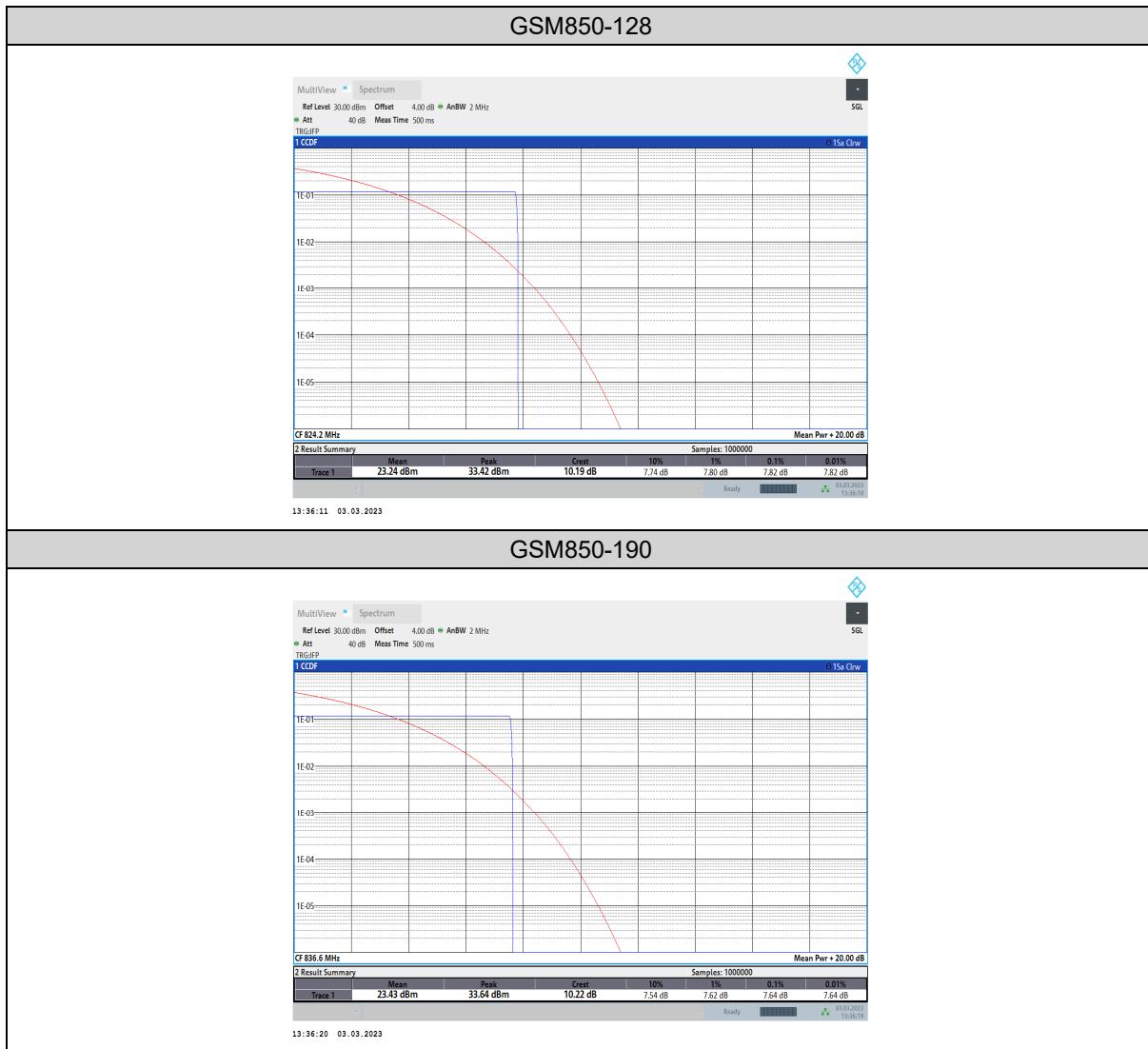


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Test Graphs



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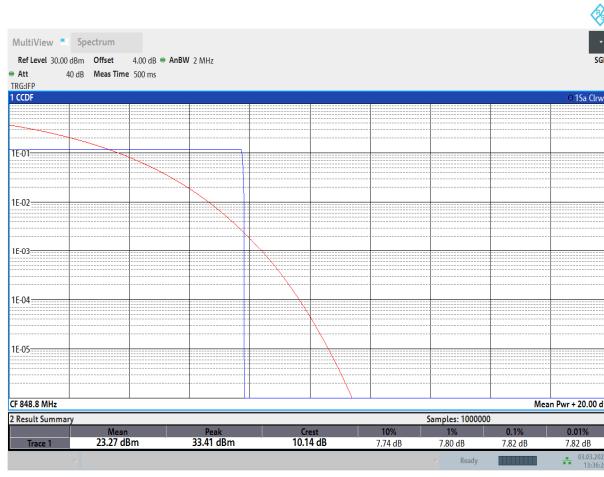
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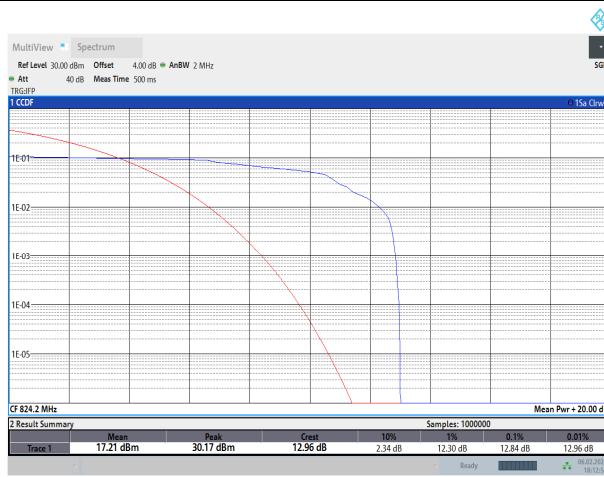
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GSM850-251



EGPRS850-128



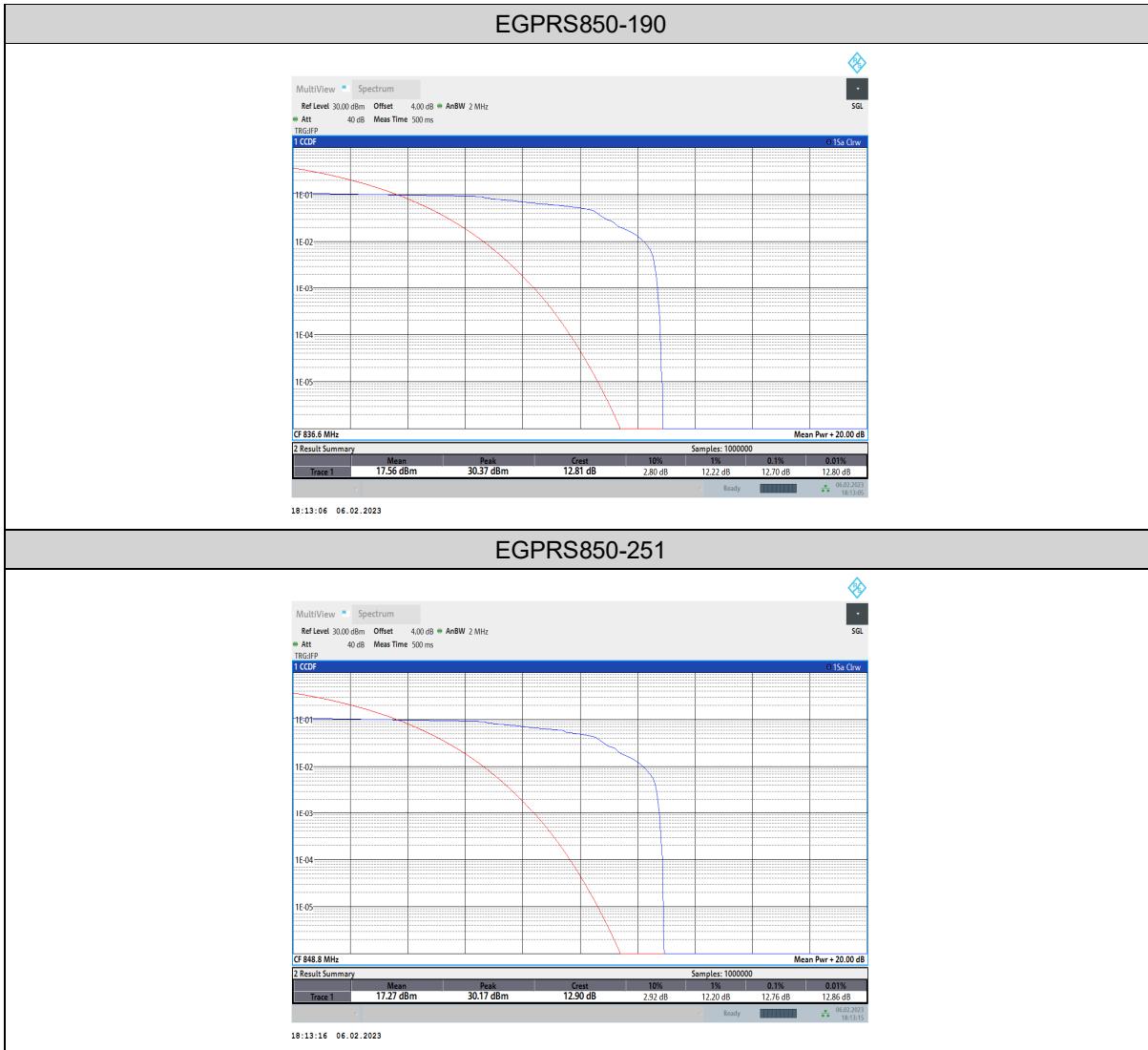
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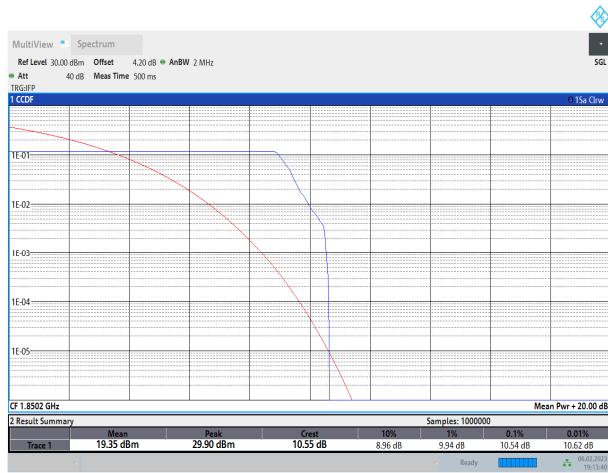
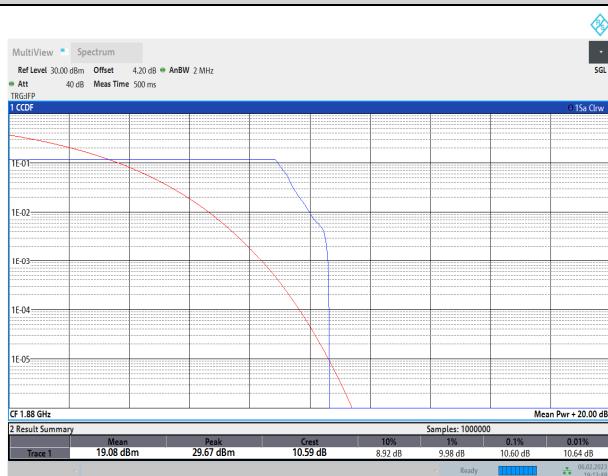
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GSM1900-512**GSM1900-661**

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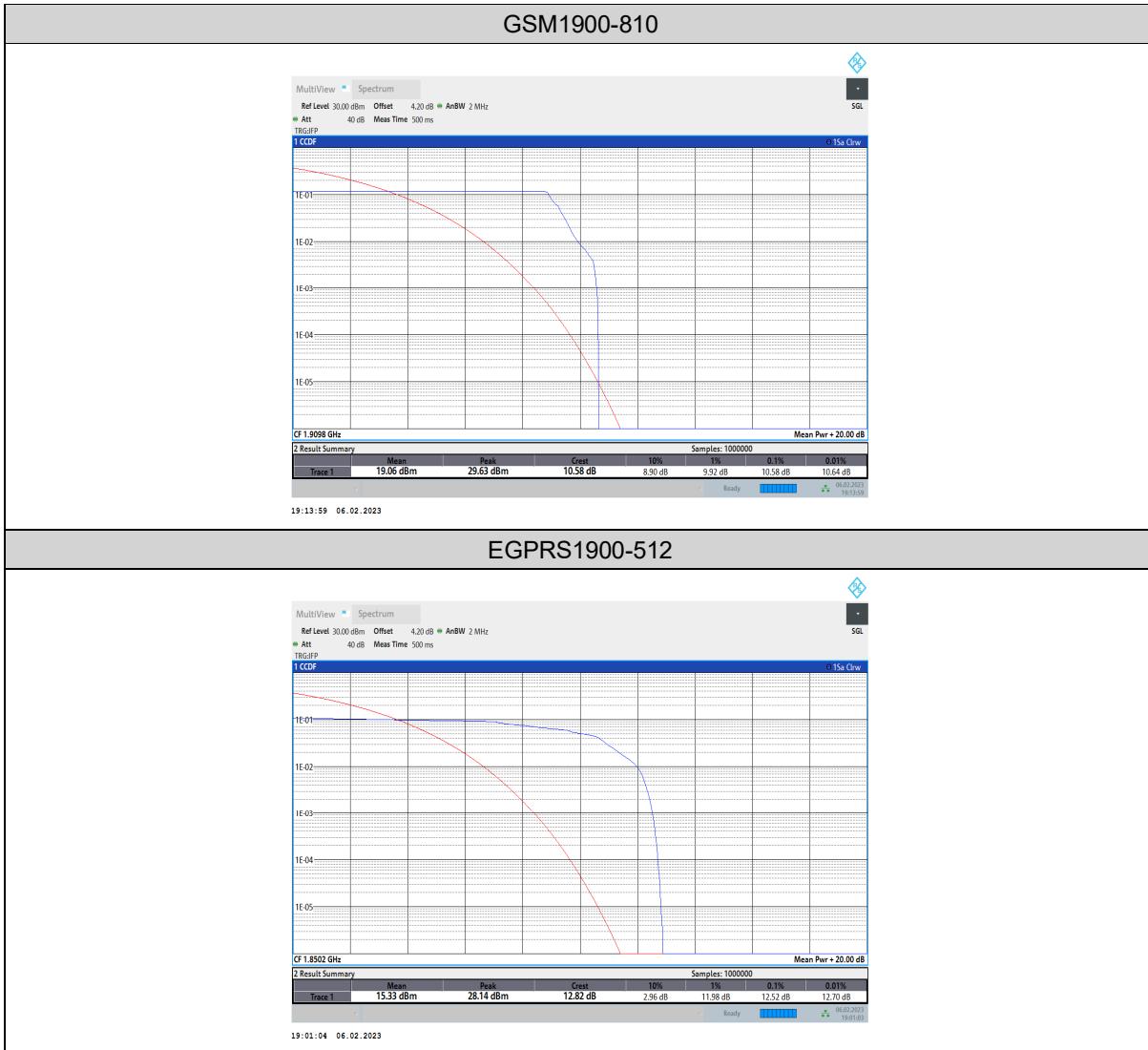
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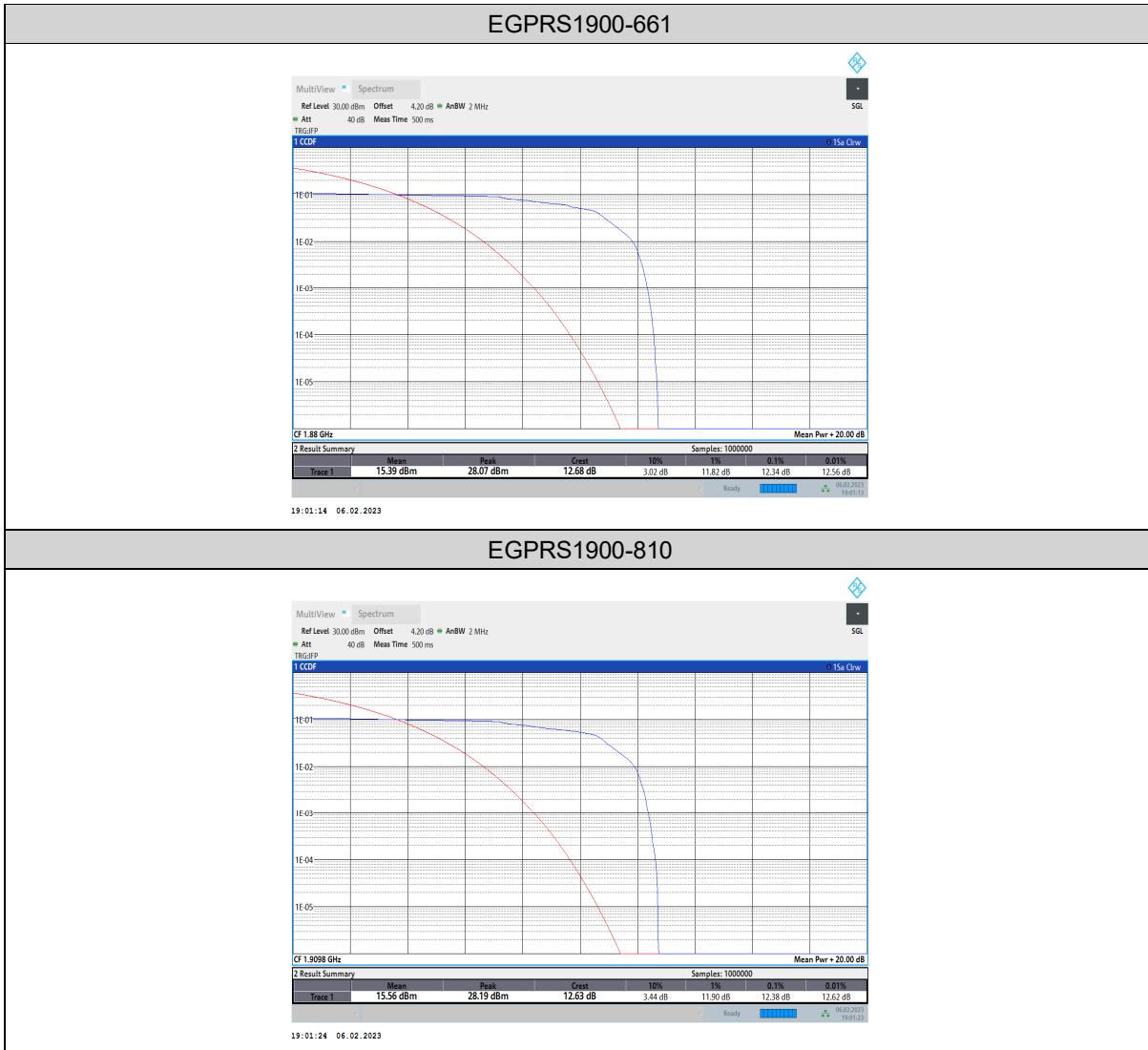
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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.245	0.31	---	PASS
GSM850	190	0.244	0.31	---	PASS
GSM850	251	0.244	0.31	---	PASS
EGPRS850	128	0.246	0.32	---	PASS
EGPRS850	190	0.248	0.31	---	PASS
EGPRS850	251	0.248	0.31	---	PASS
GSM1900	512	0.243	0.31	---	PASS
GSM1900	661	0.245	0.31	---	PASS
GSM1900	810	0.244	0.31	---	PASS
EGPRS1900	512	0.249	0.32	---	PASS
EGPRS1900	661	0.25	0.32	---	PASS
EGPRS1900	810	0.252	0.32	---	PASS

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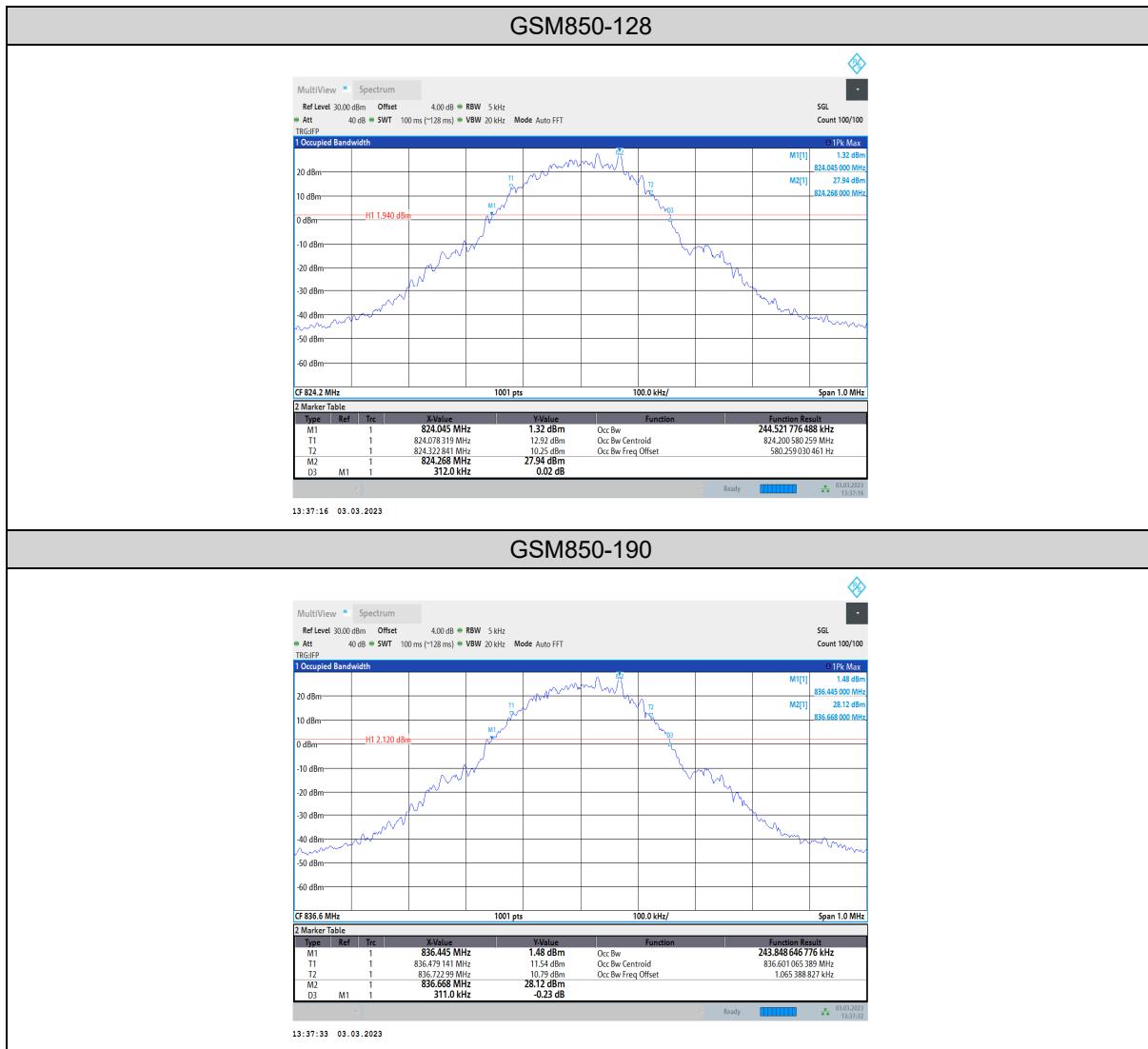
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Test Graphs



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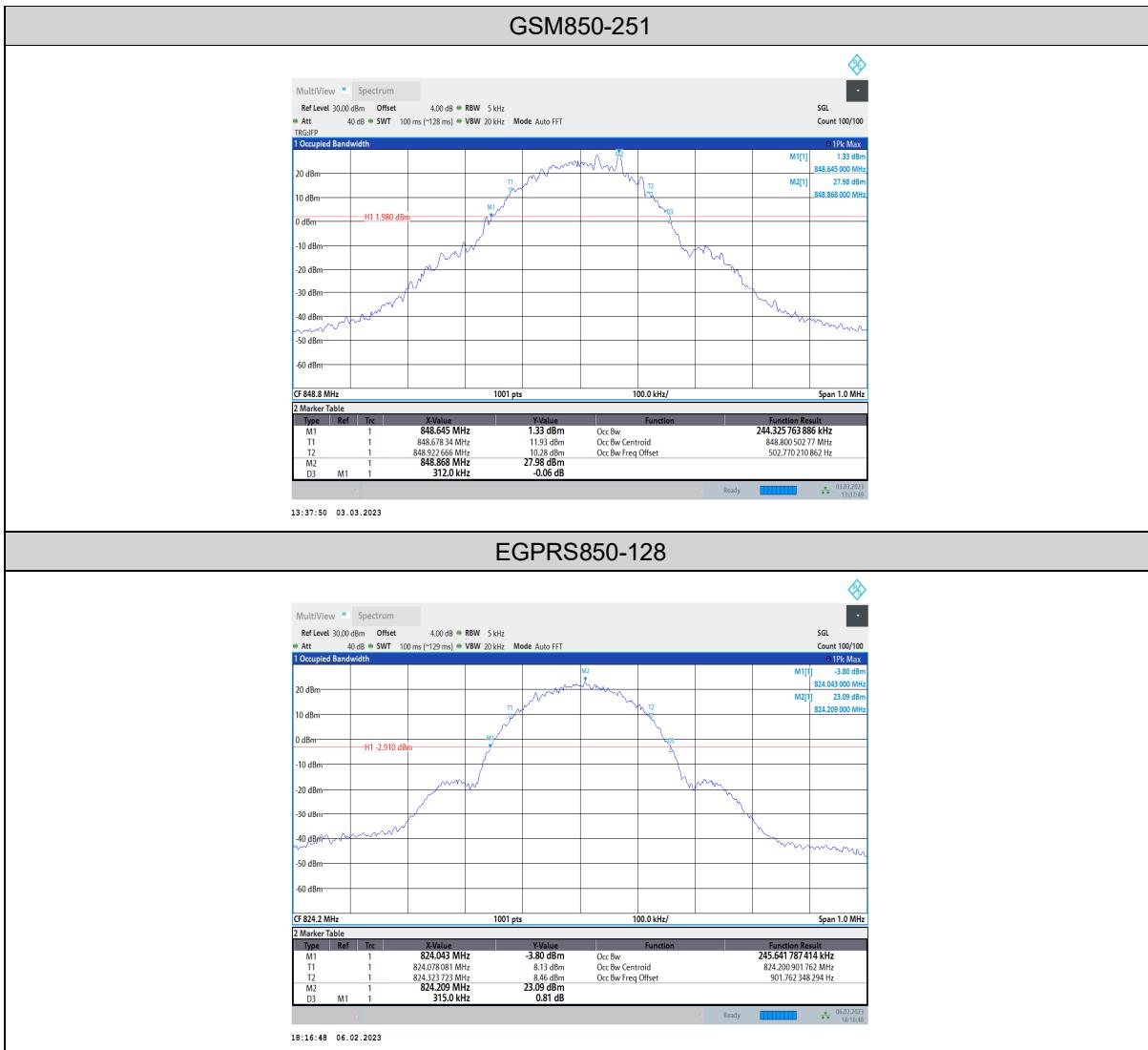
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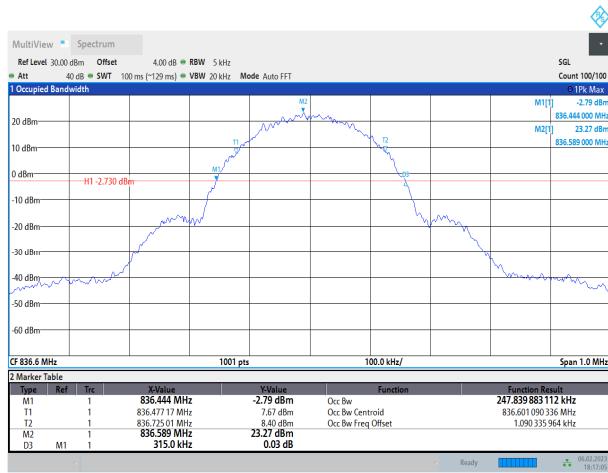
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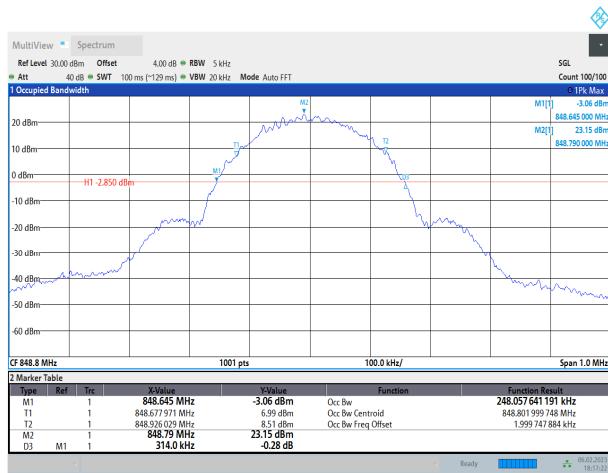
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EGPRS850-251



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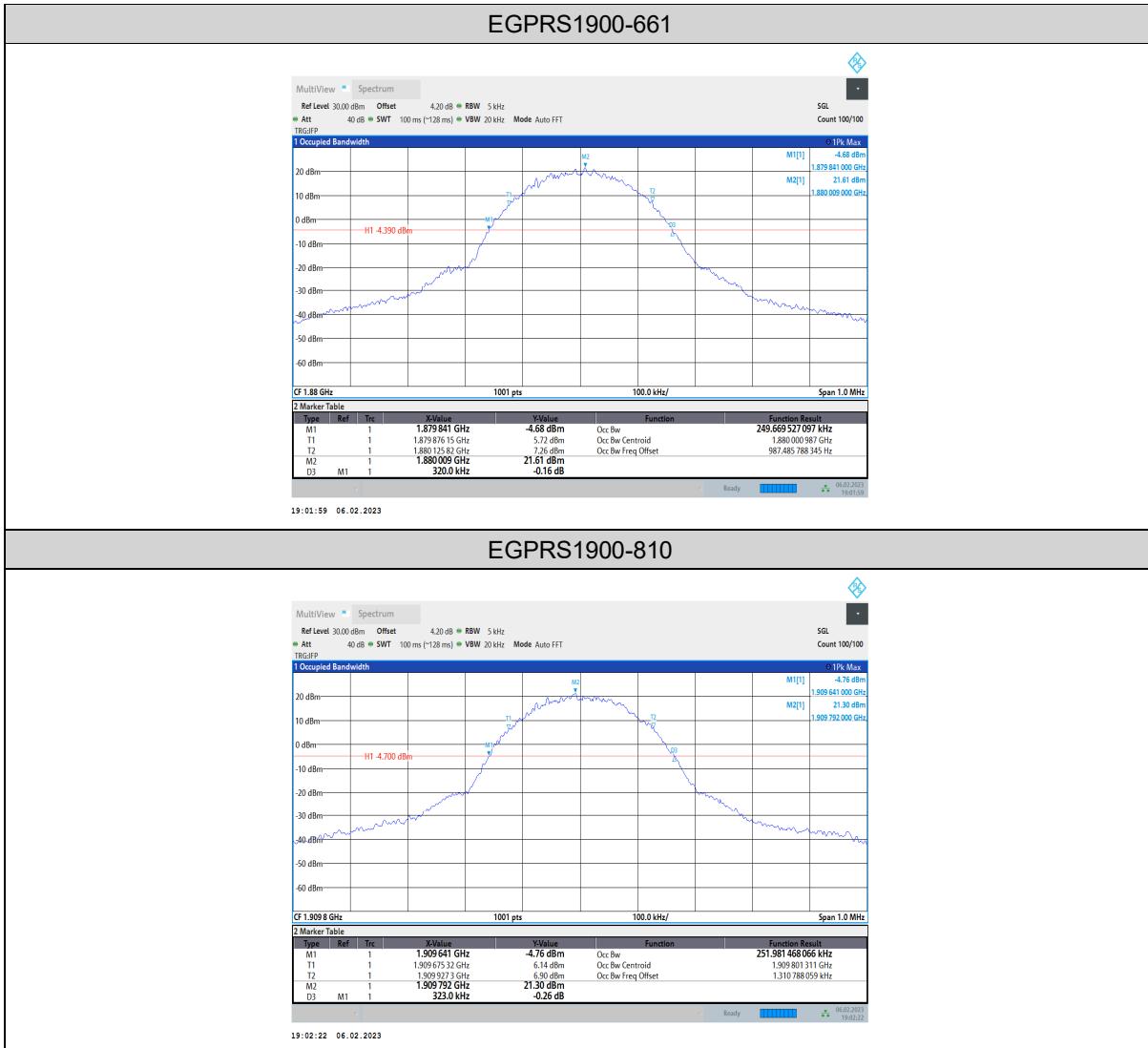
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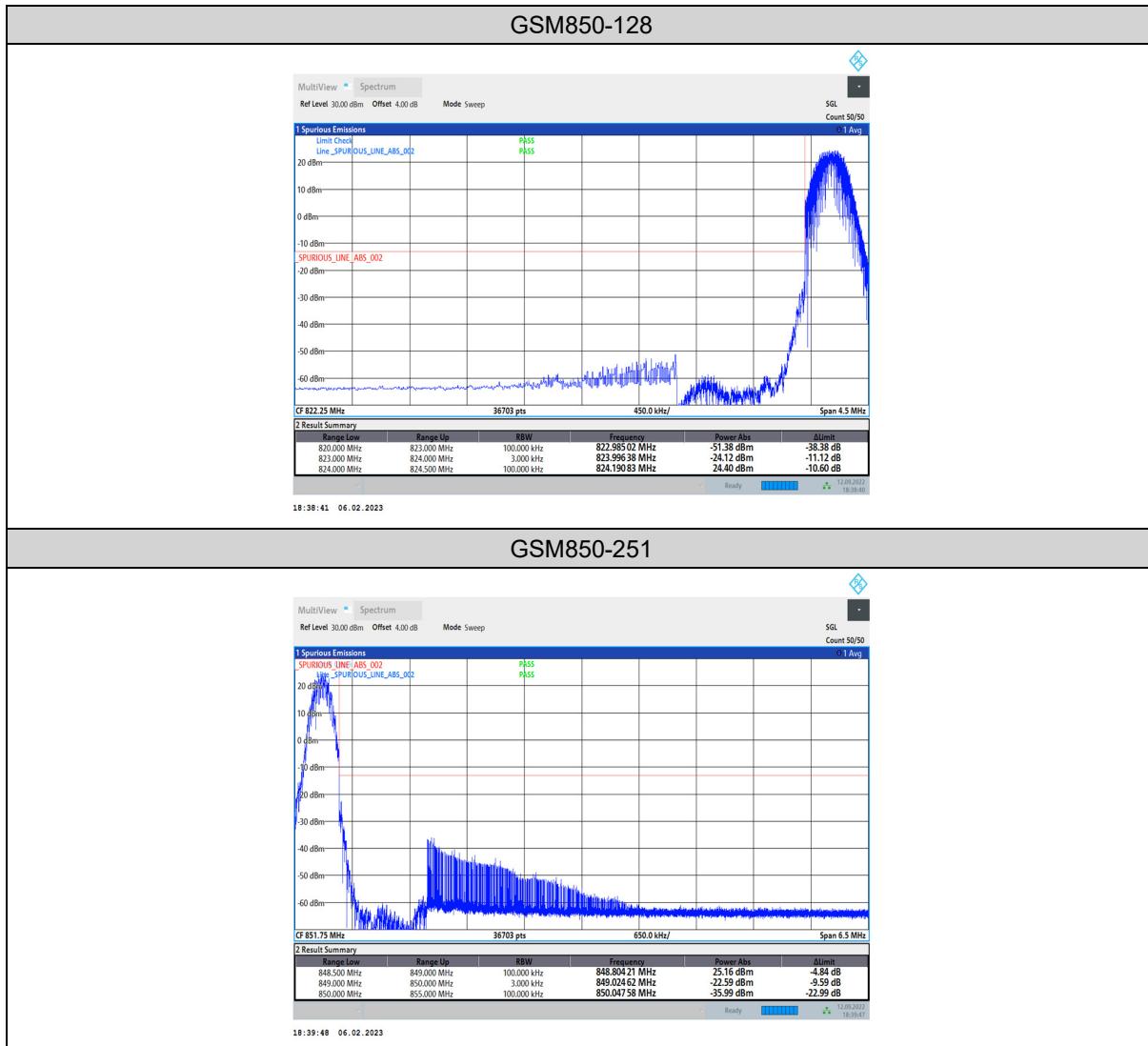
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Band Edge

Test Graphs



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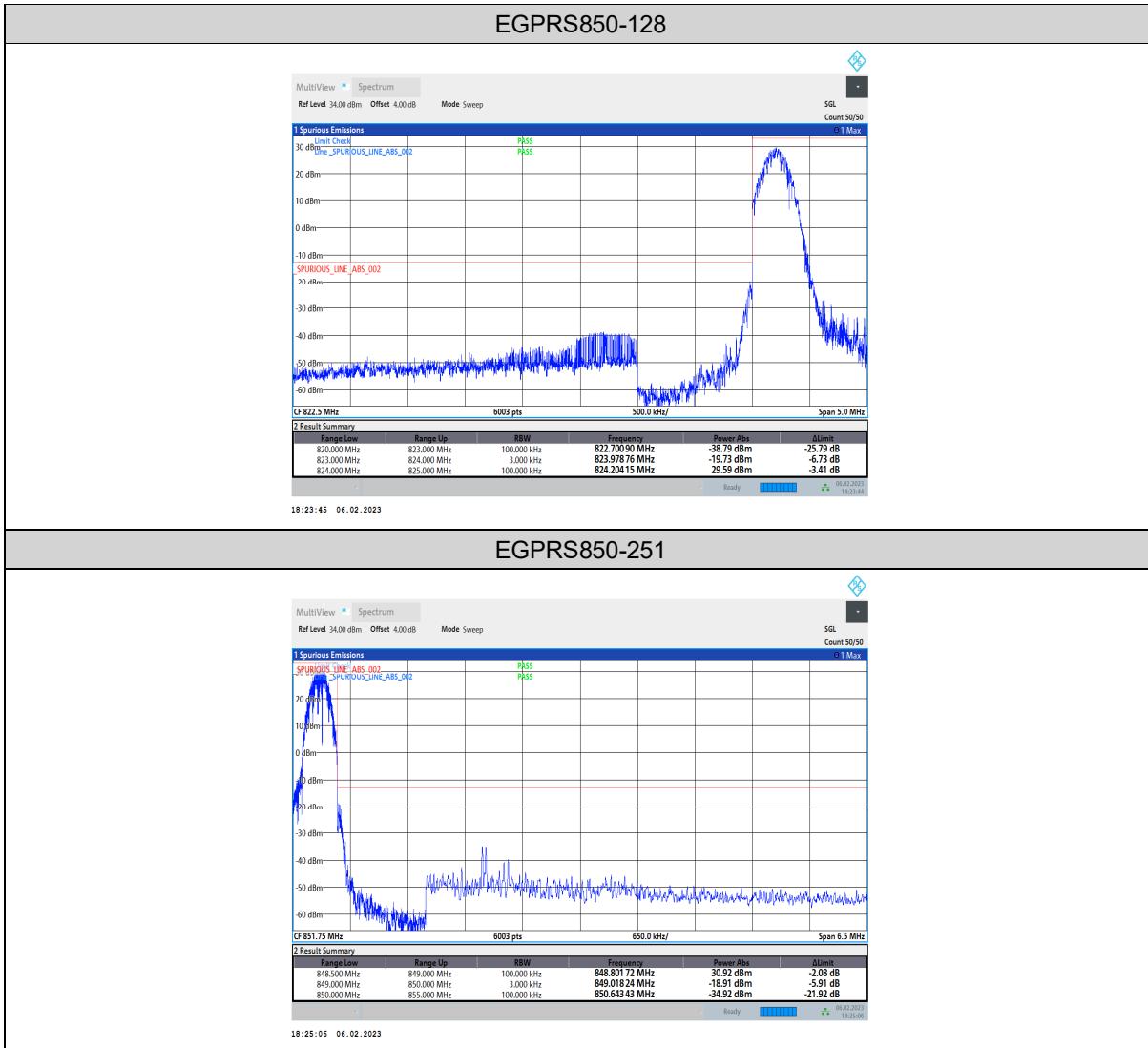
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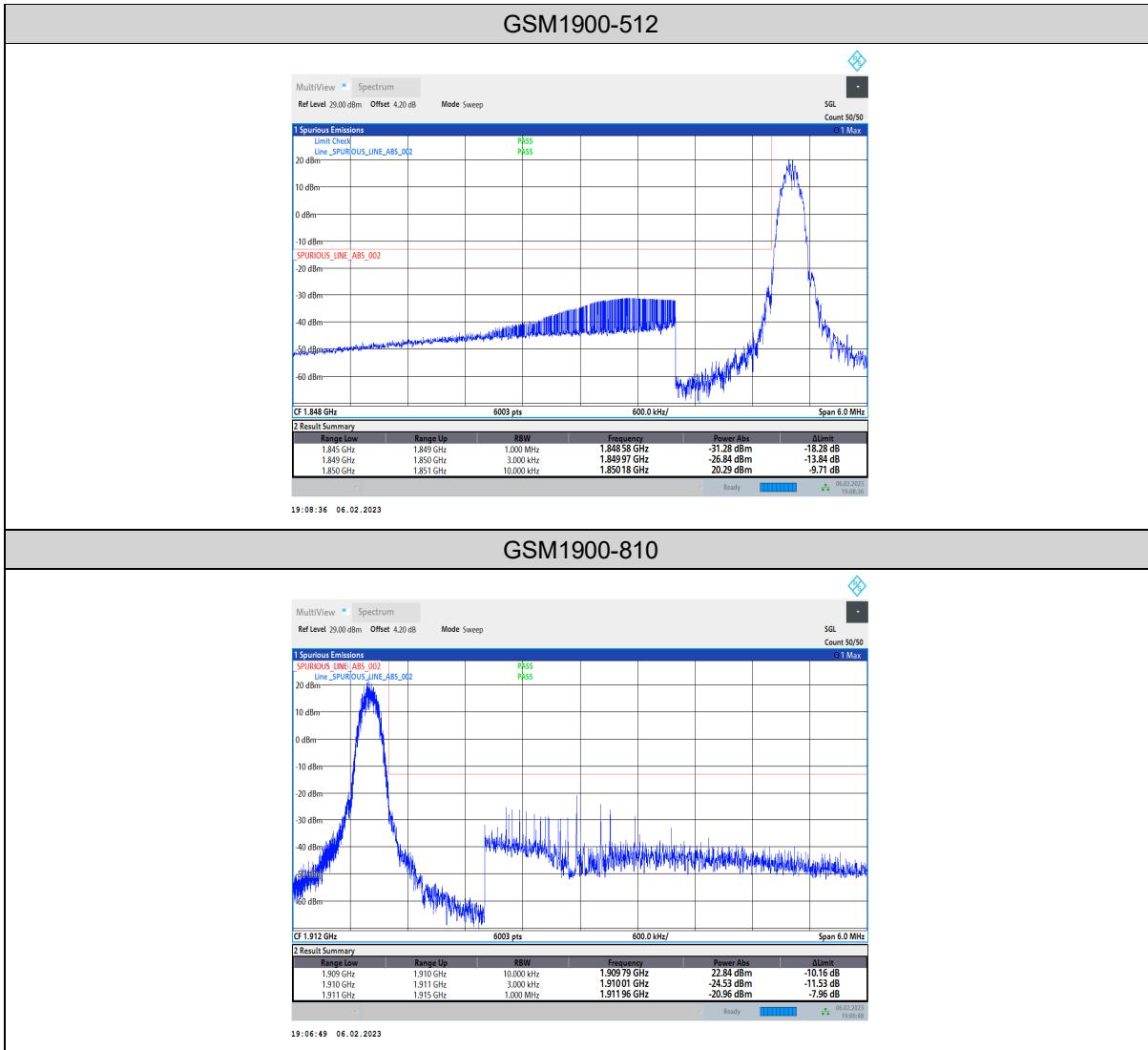
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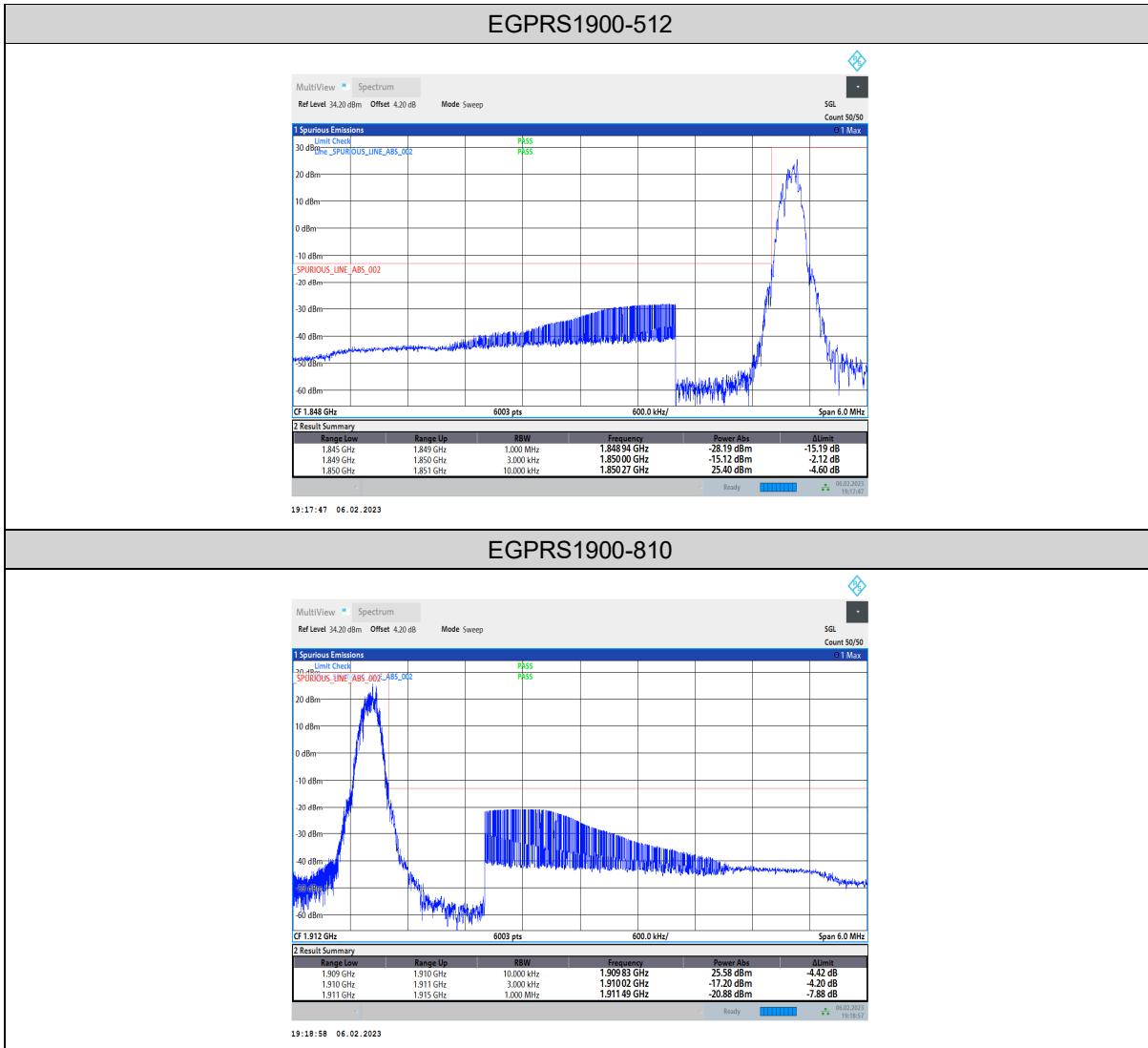
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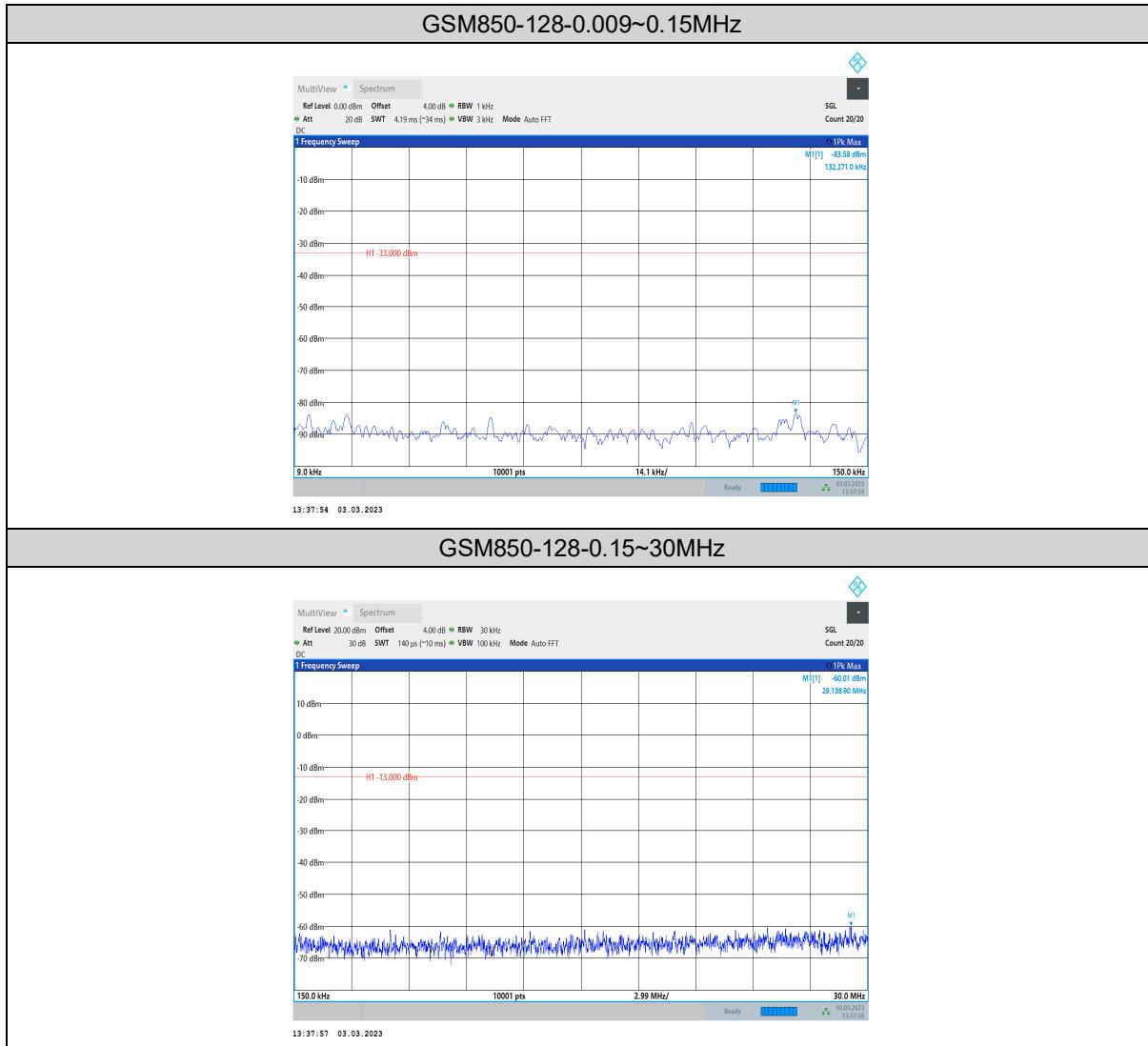
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Conducted Spurious Emission

Test Graphs



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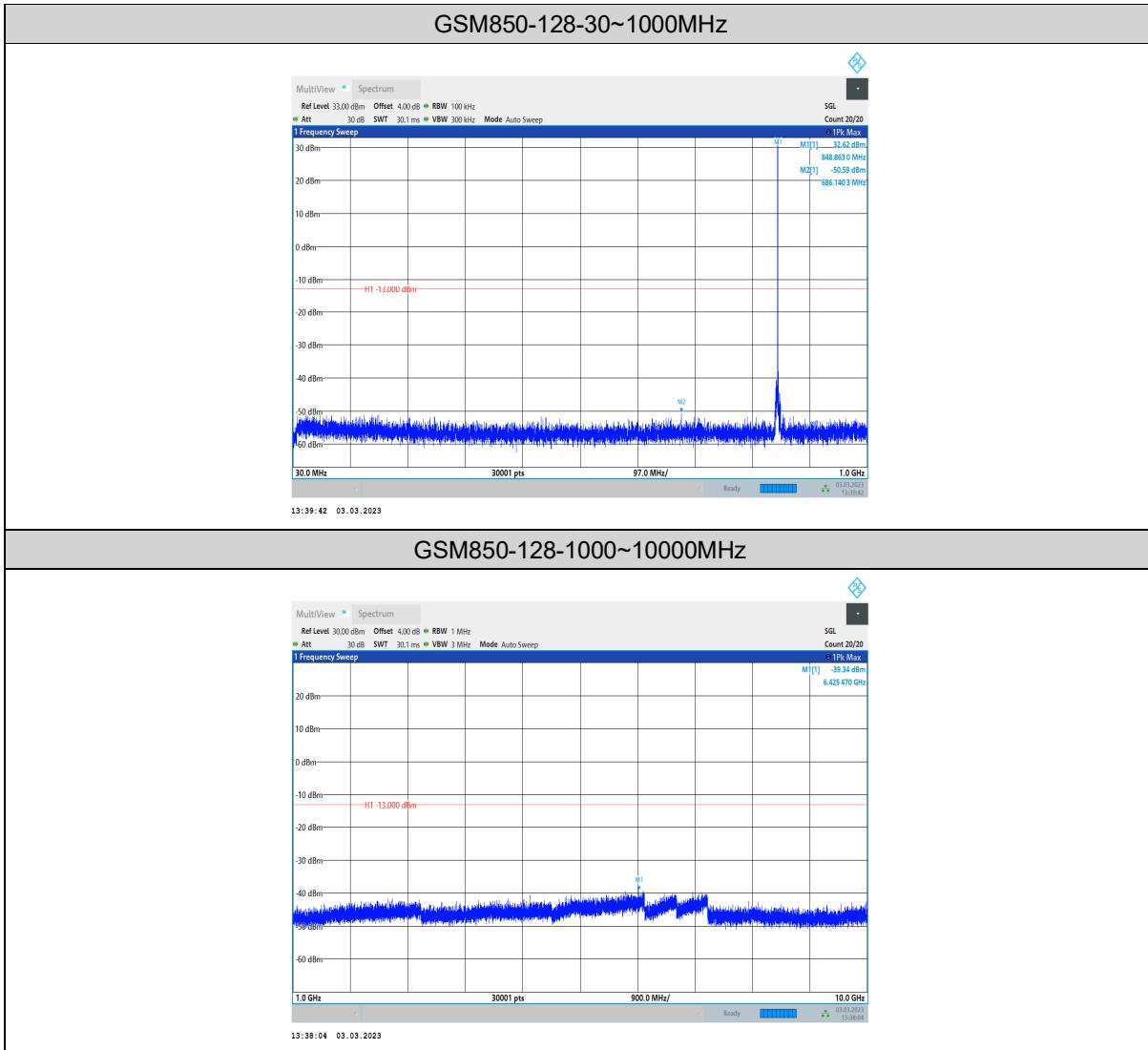
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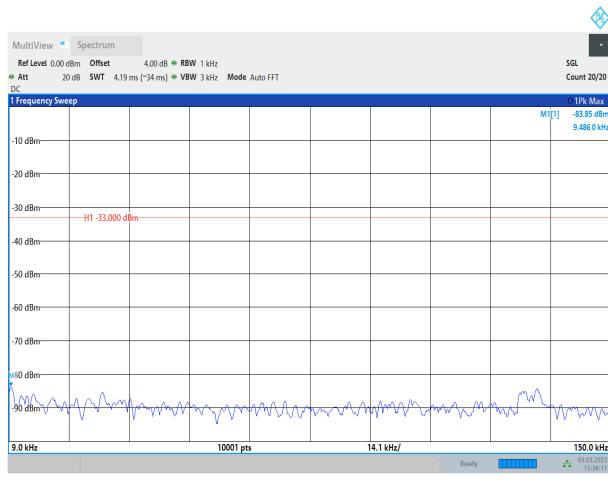
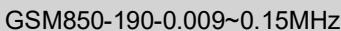
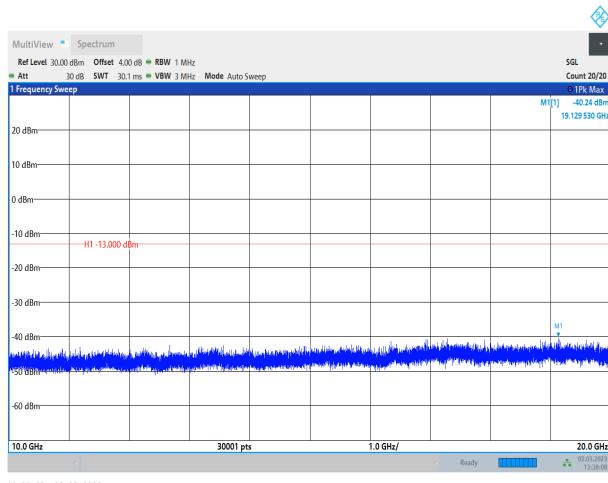
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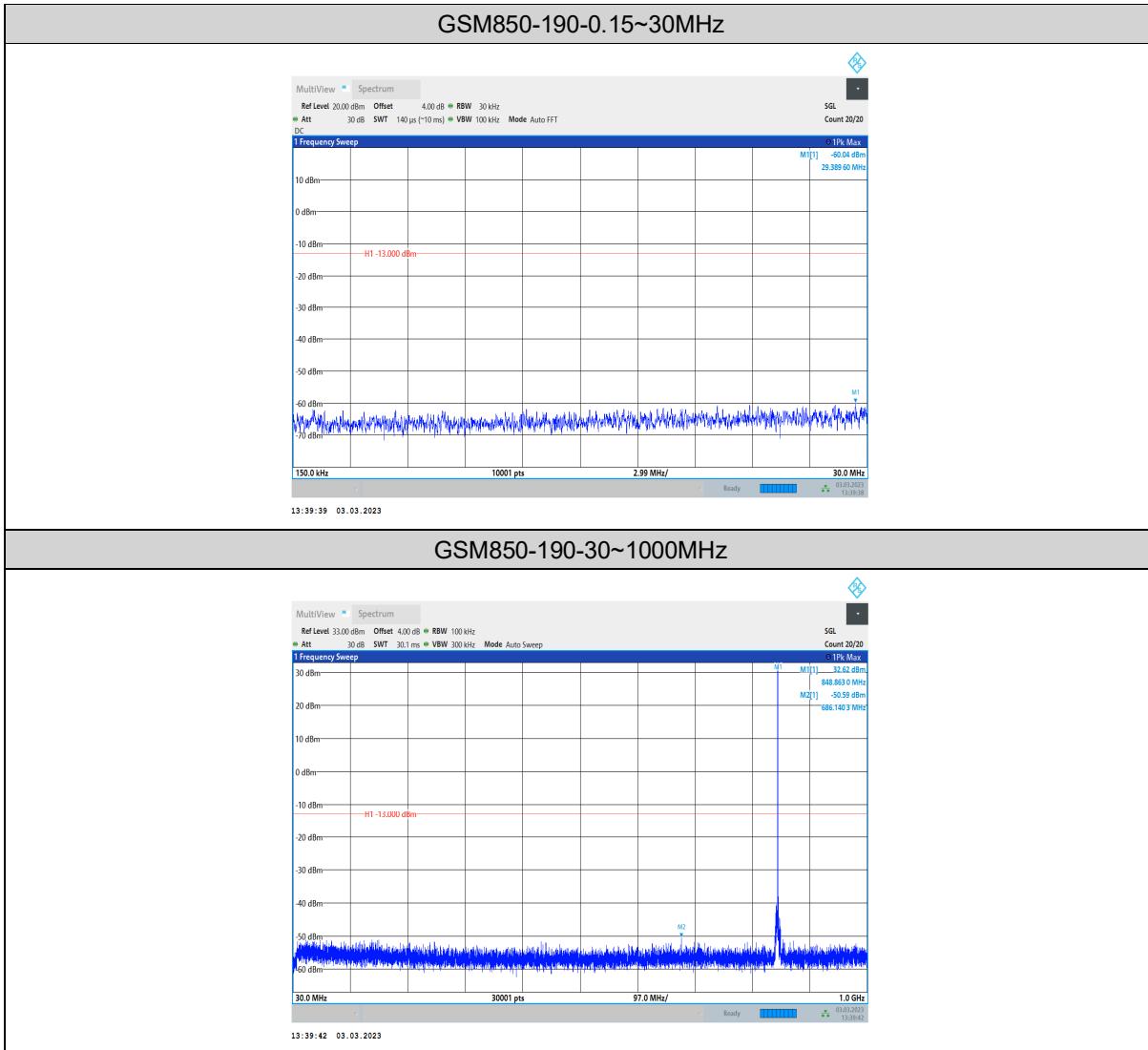
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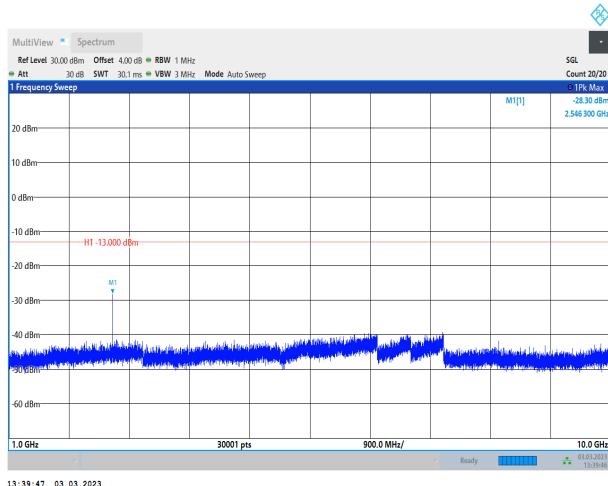
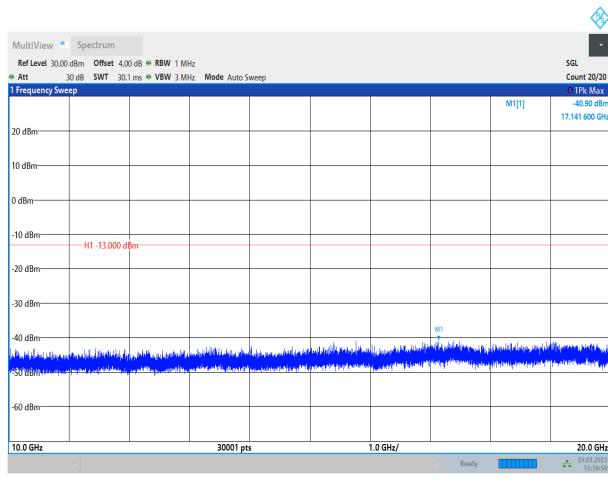
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GSM850-190-1000~10000MHz**GSM850-190-10000~20000MHz**

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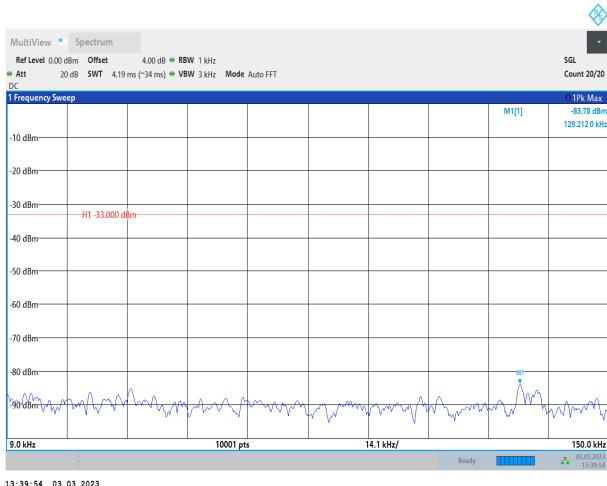
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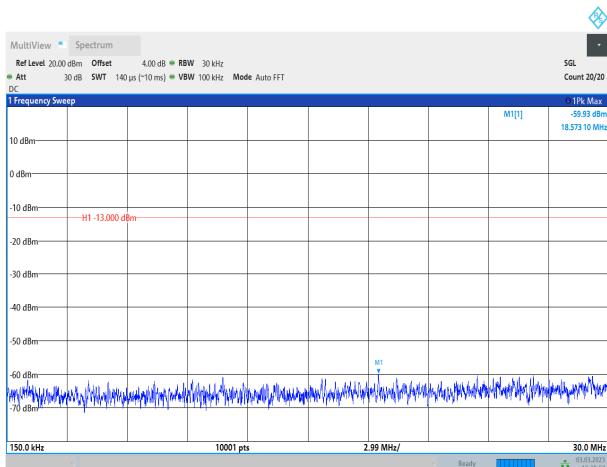
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GSM850-251-0.009~0.15MHz



13:39:54 03.03.2023

GSM850-251-0.15~30MHz



13:39:57 03.03.2023

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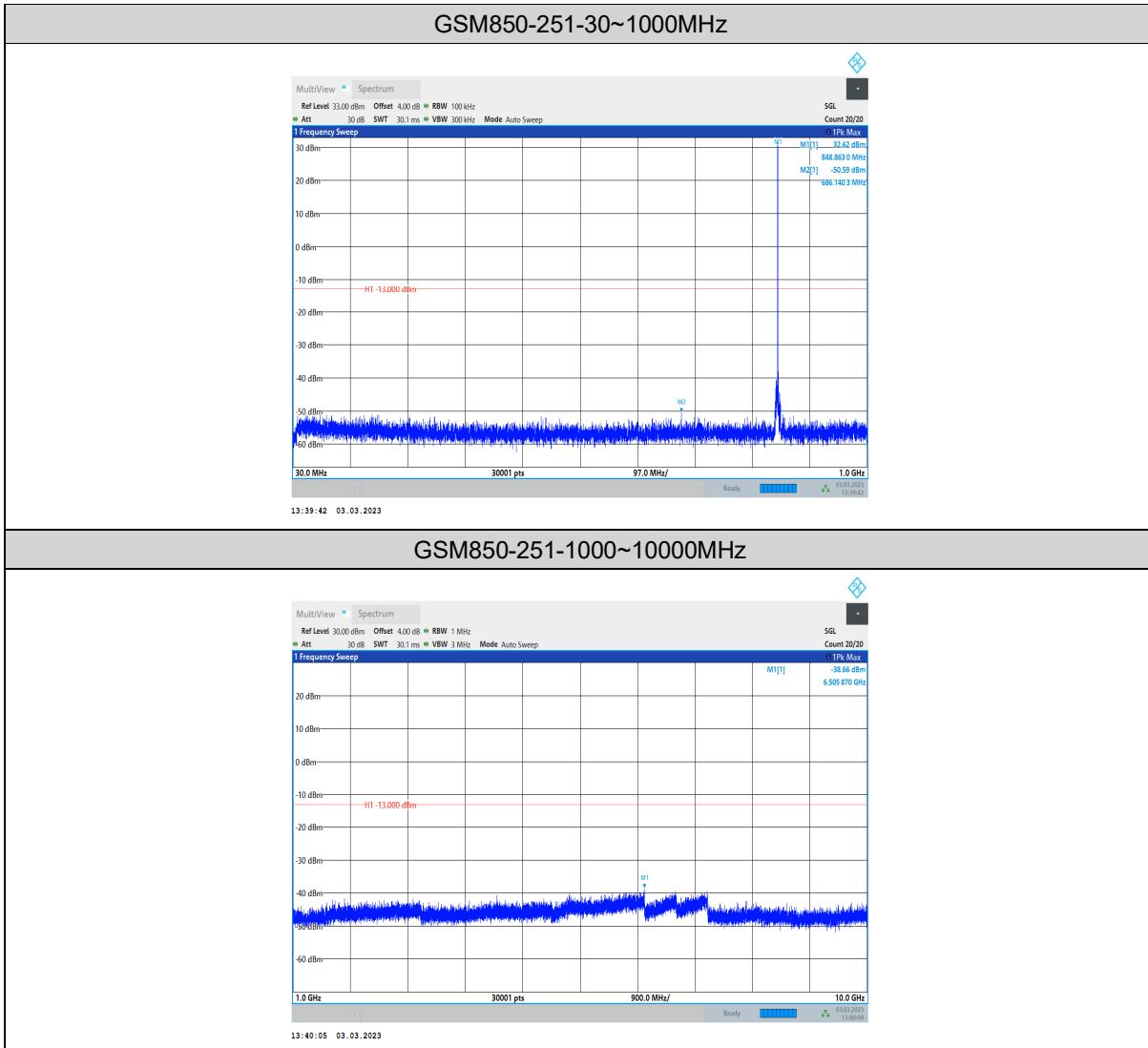
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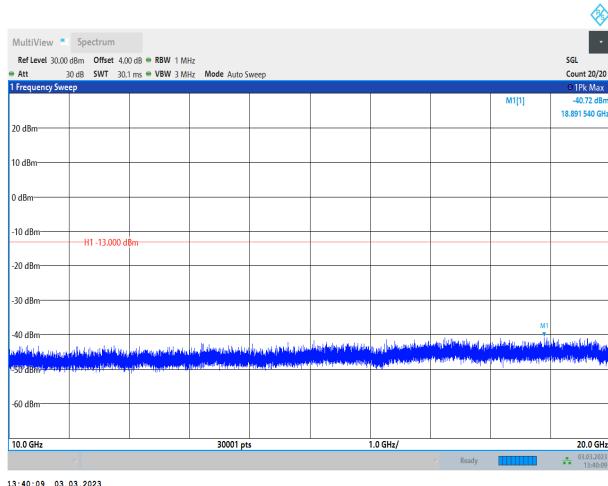
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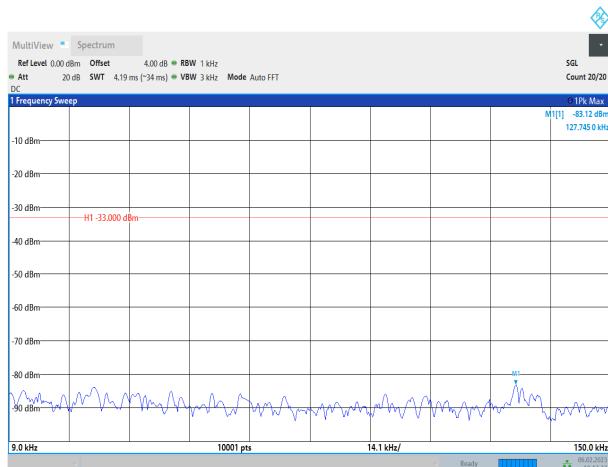
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GSM850-251-10000~20000MHz

13:40:09 03.03.2023

EGPRS850-128-0.009~0.15MHz

18:17:27 06.02.2023

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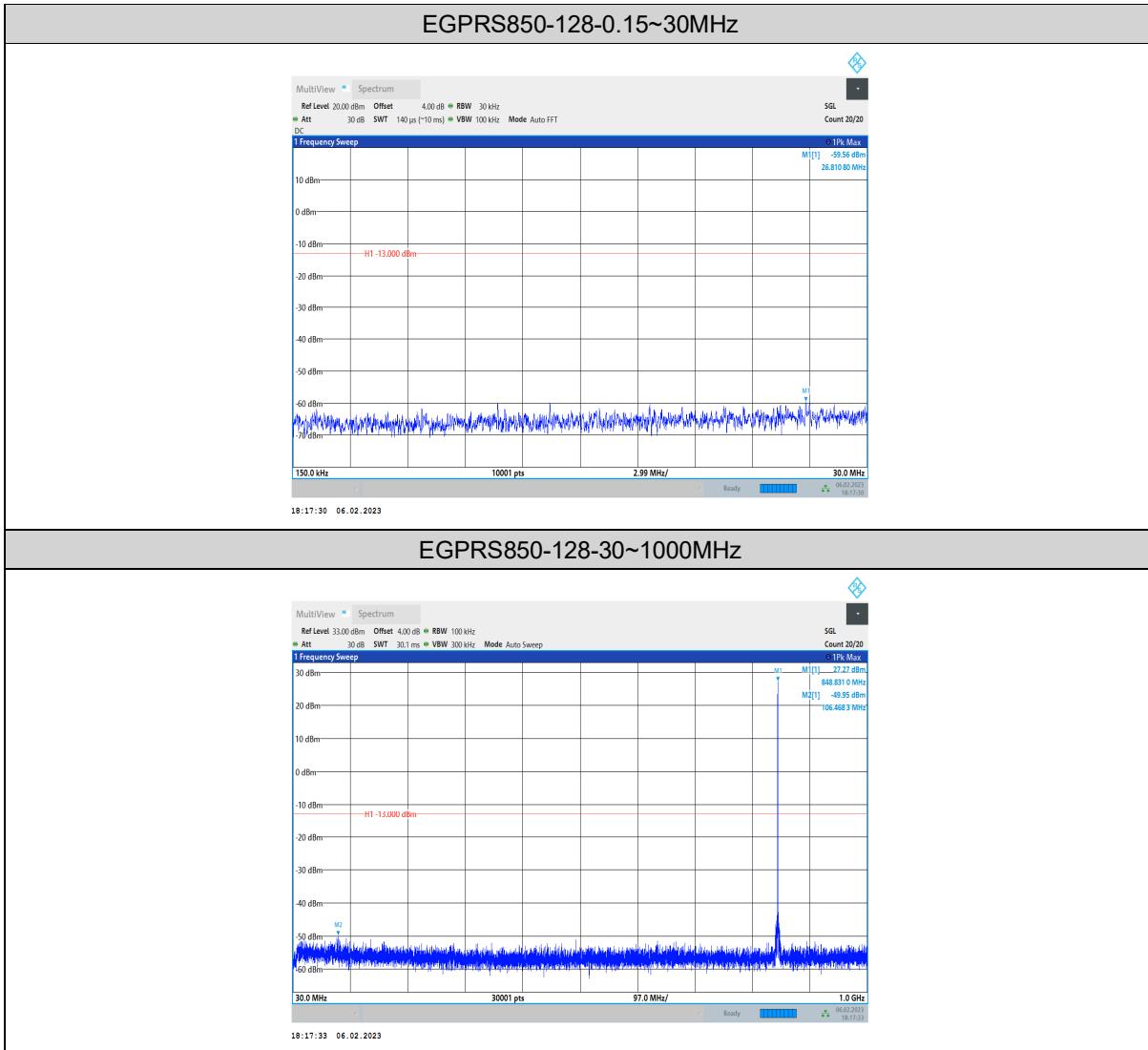
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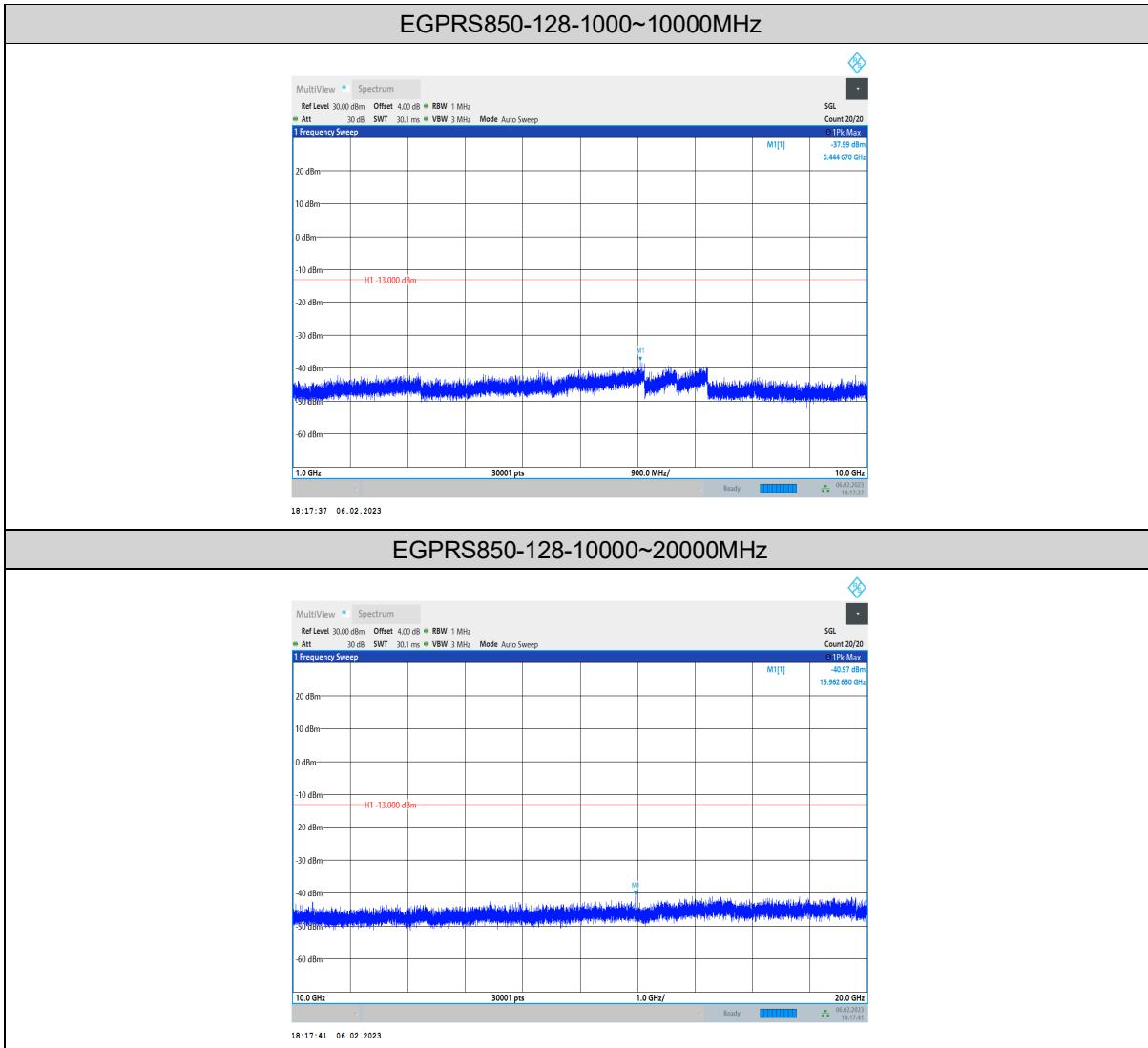
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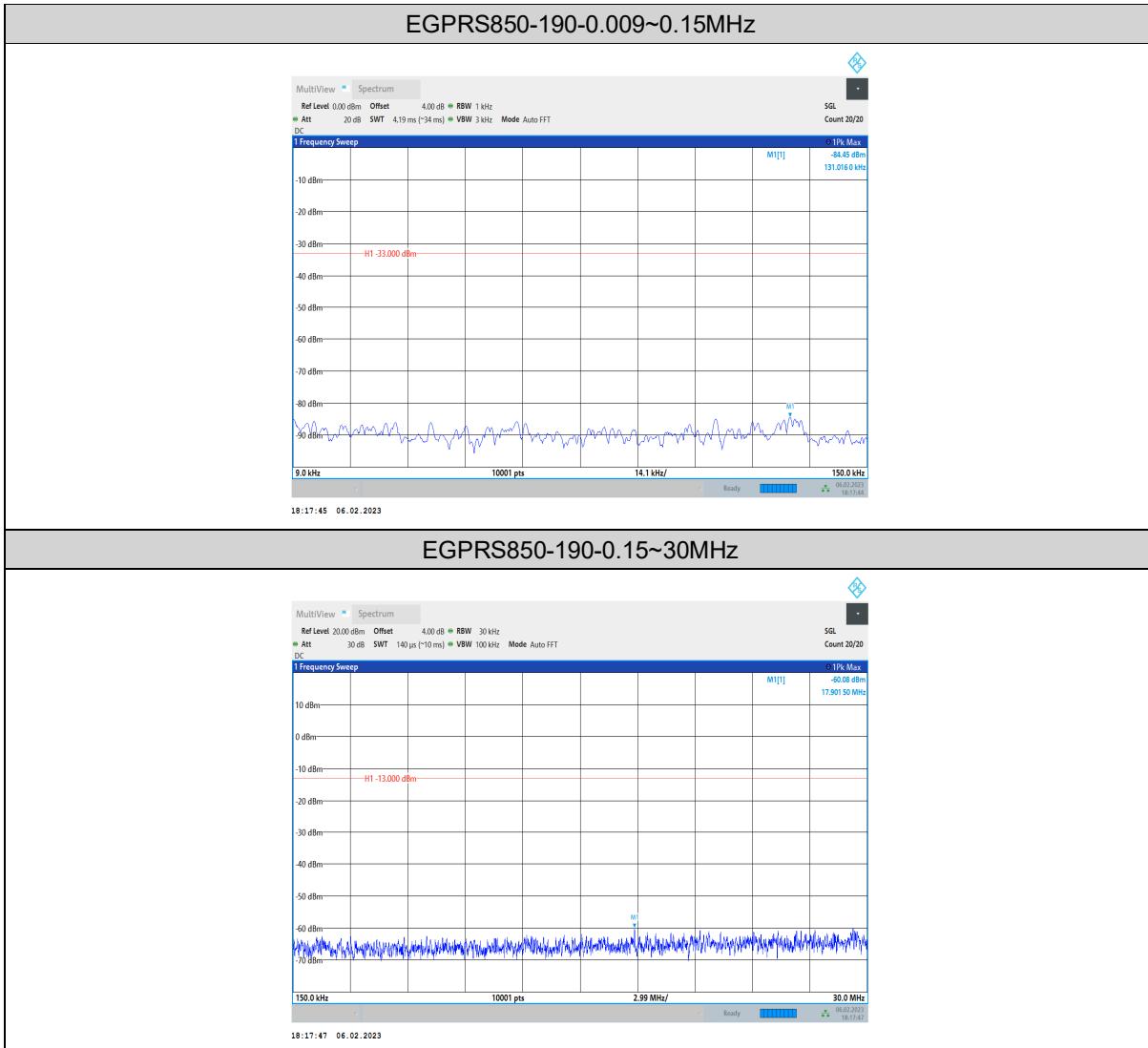
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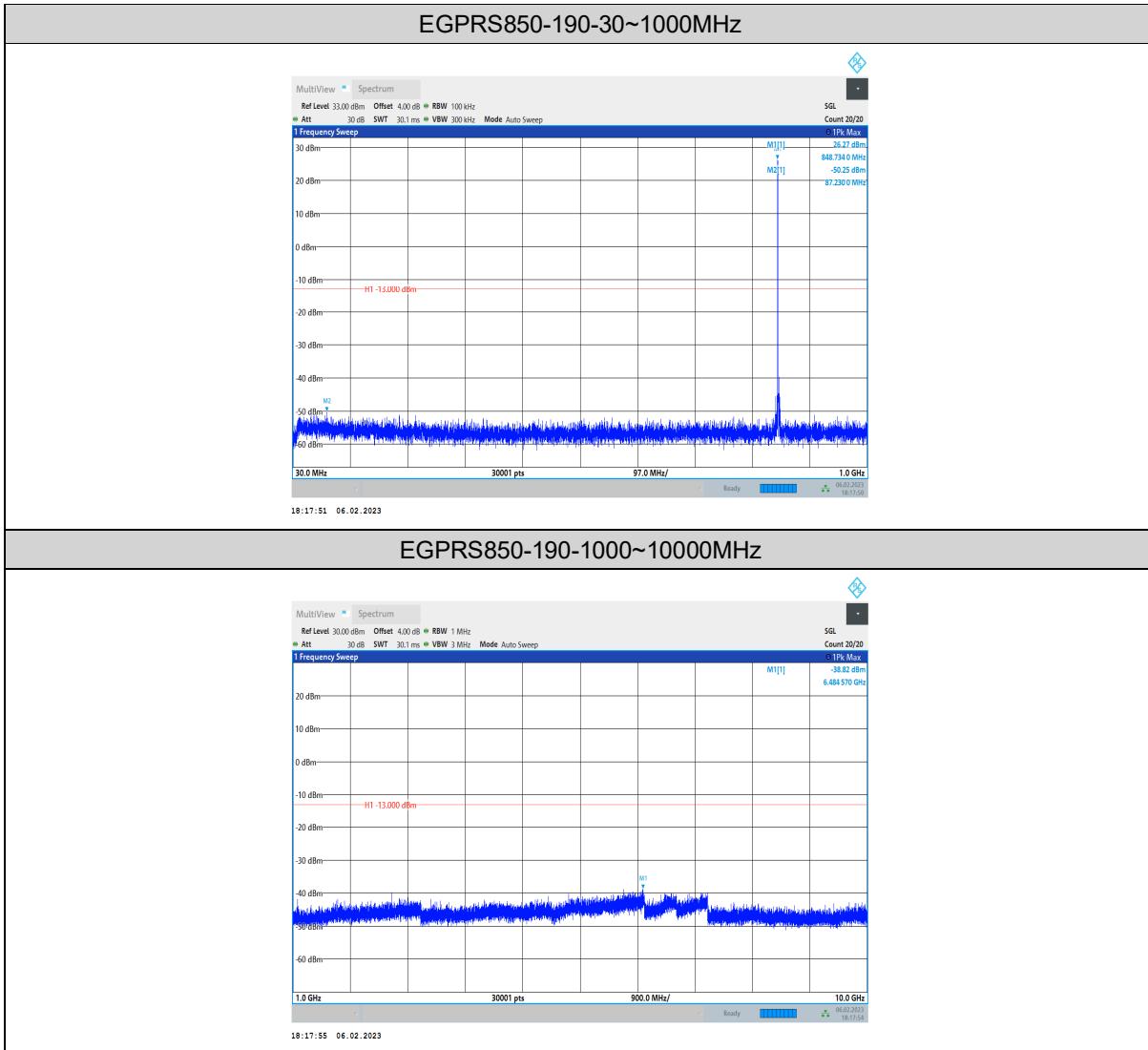
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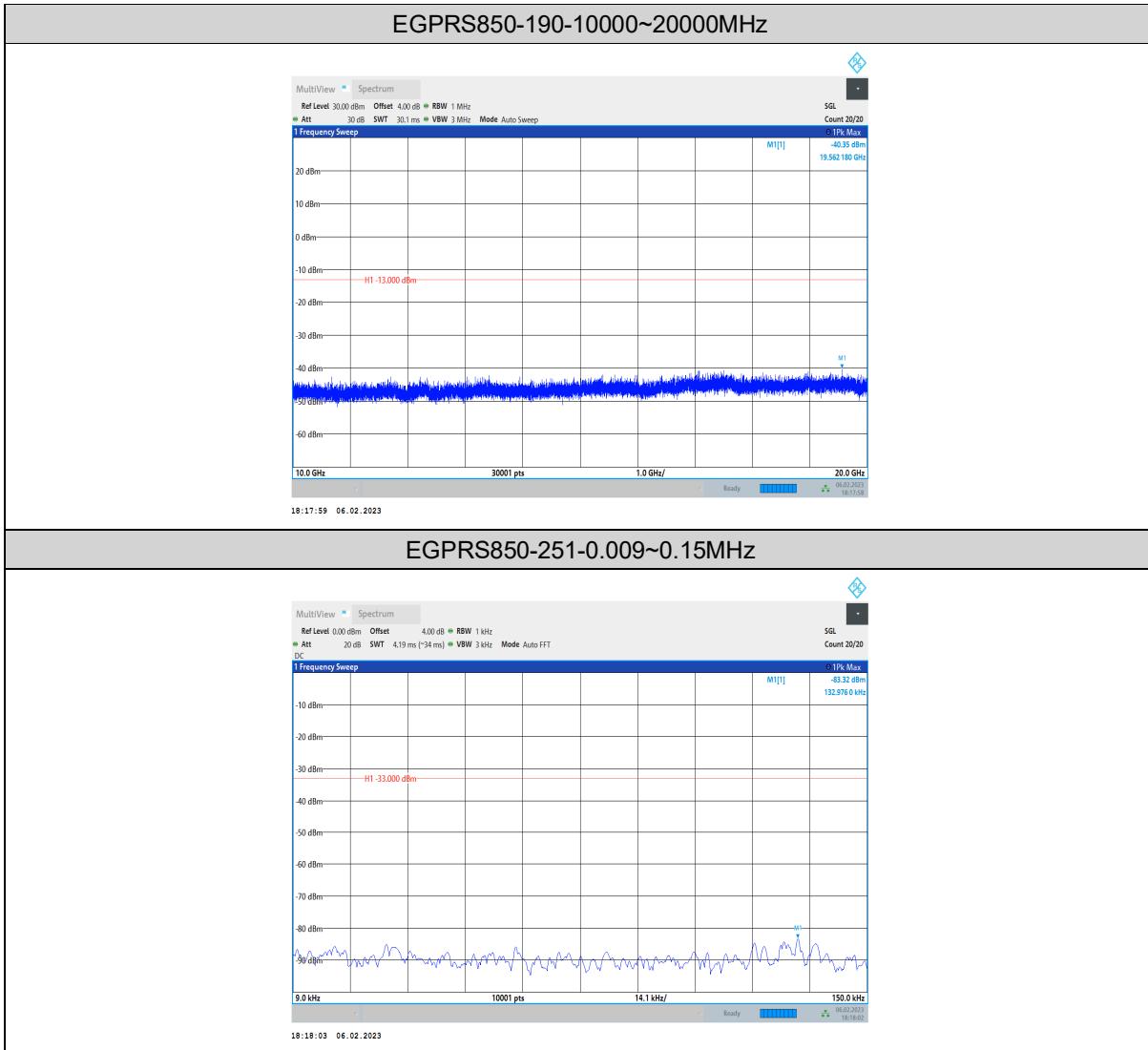
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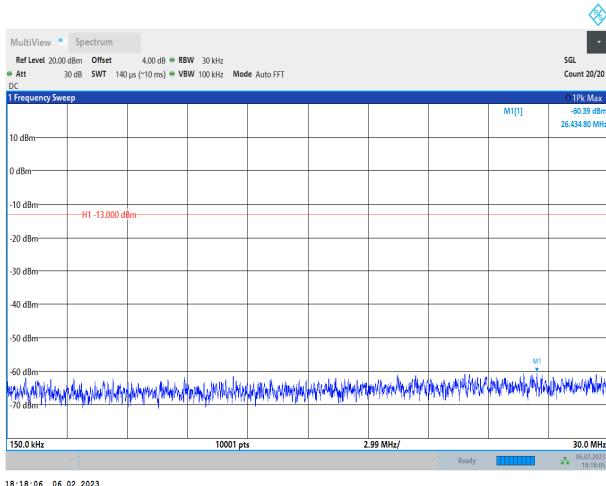


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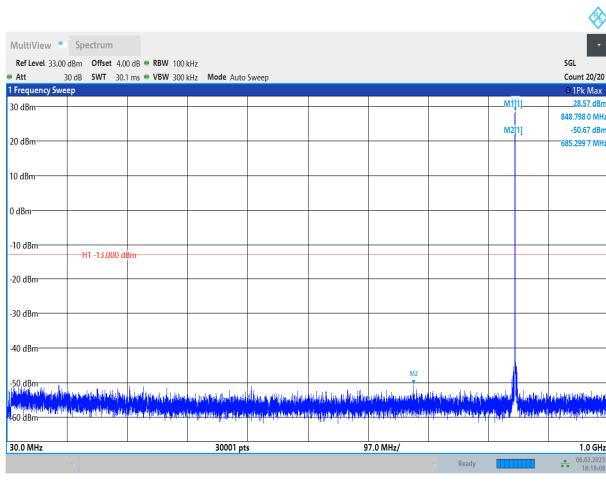
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EGPRS850-251-0.15~30MHz



EGPRS850-251-30~1000MHz



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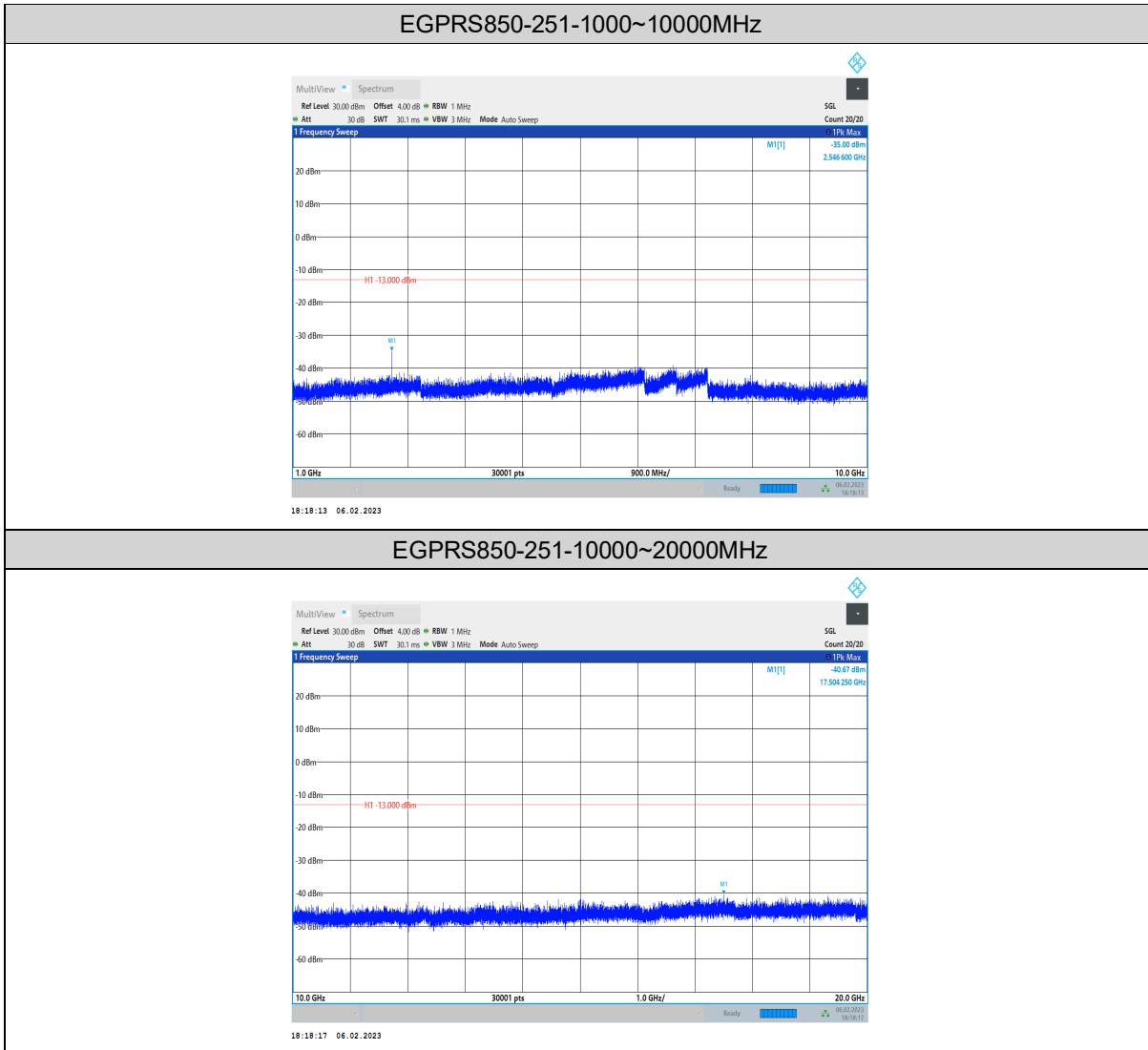
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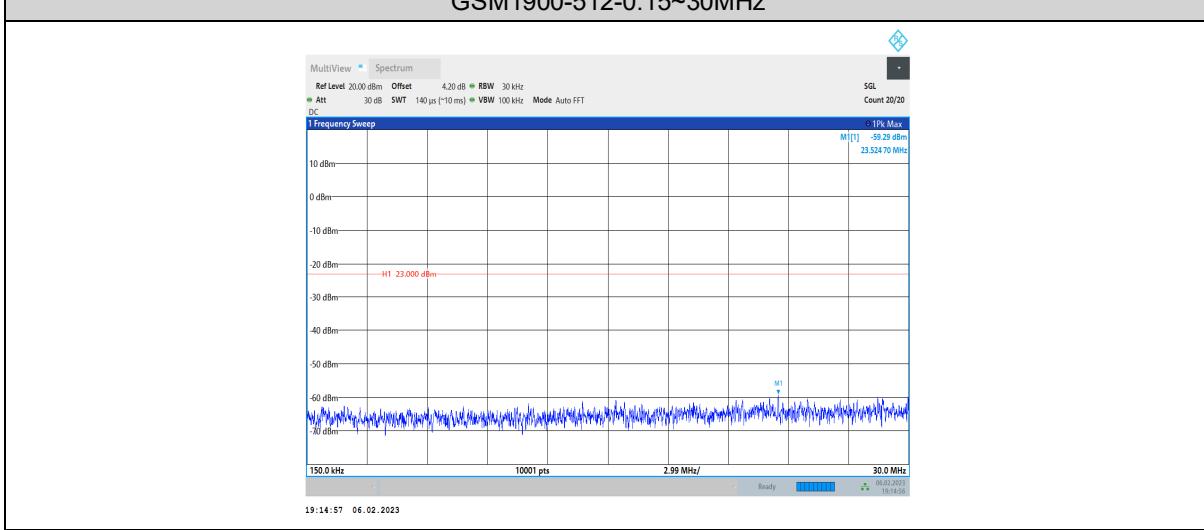
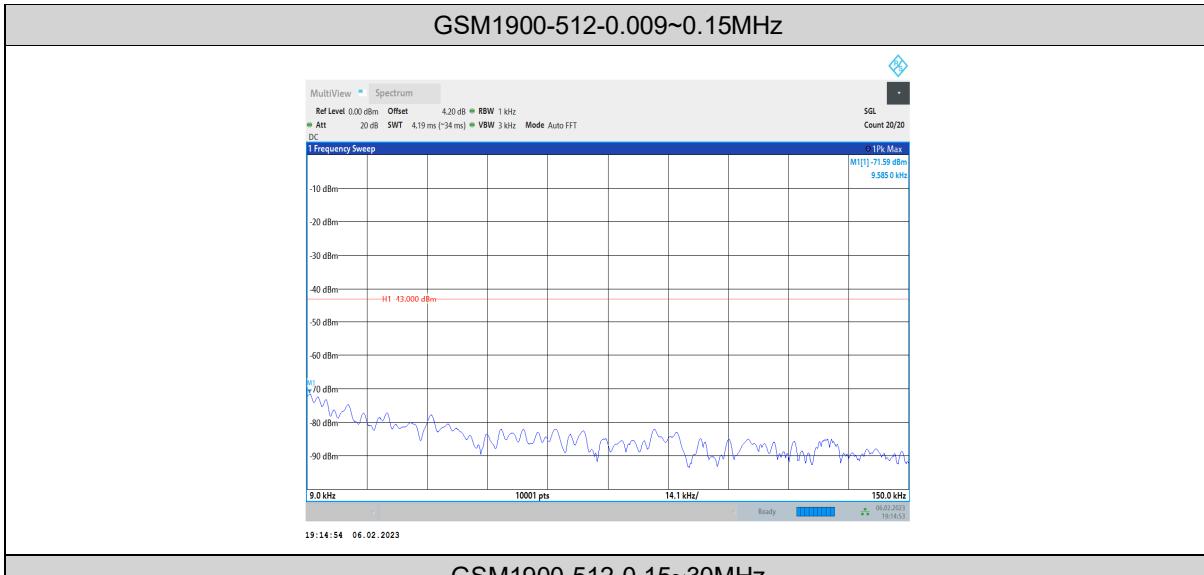
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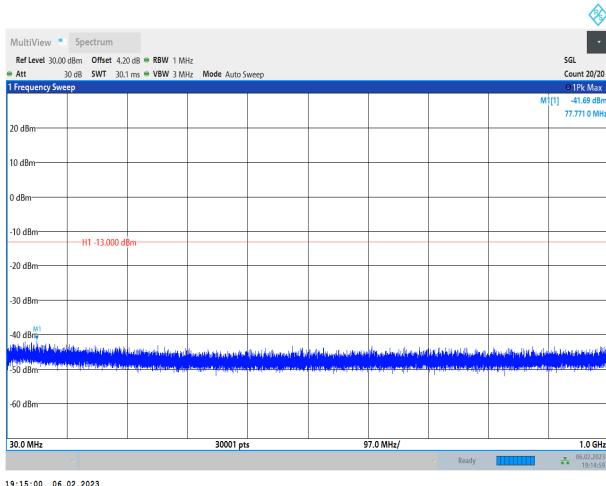
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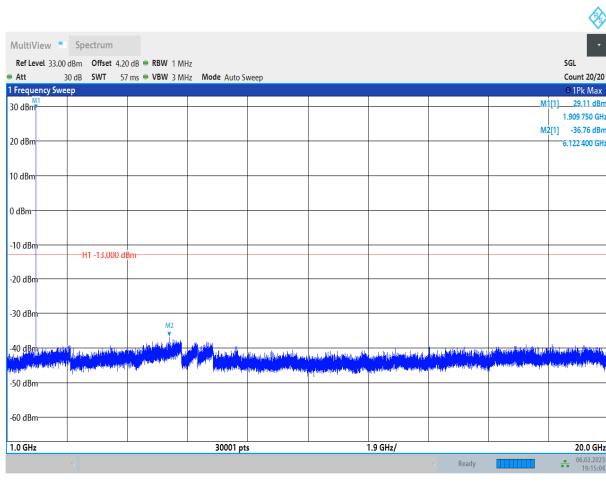
Module 4b: 2020-21 (2020-21)

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GSM1900-512-30~1000MHz



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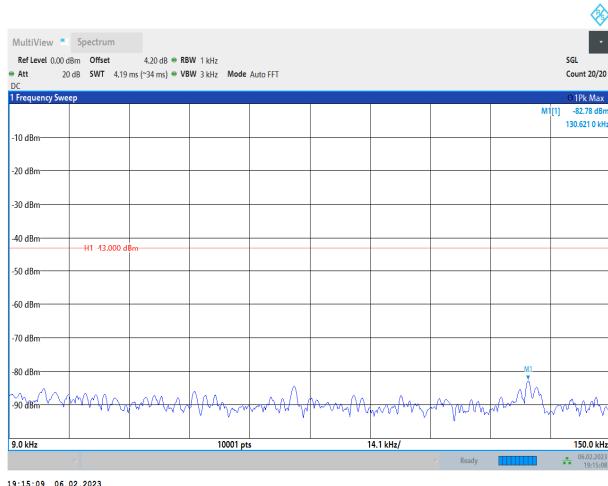
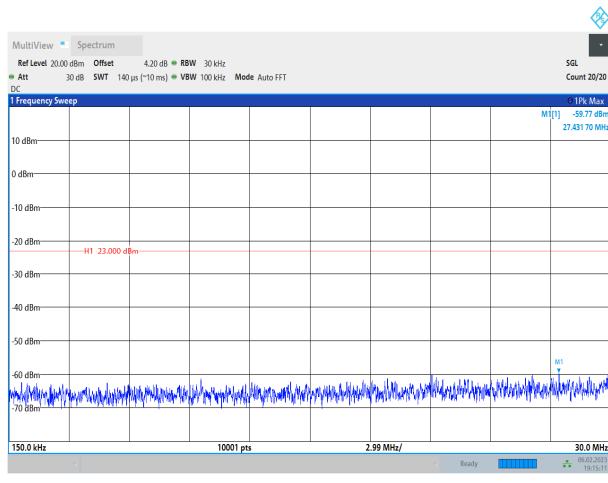
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GSM1900-661-0.009~0.15MHz**GSM1900-661-0.15~30MHz**

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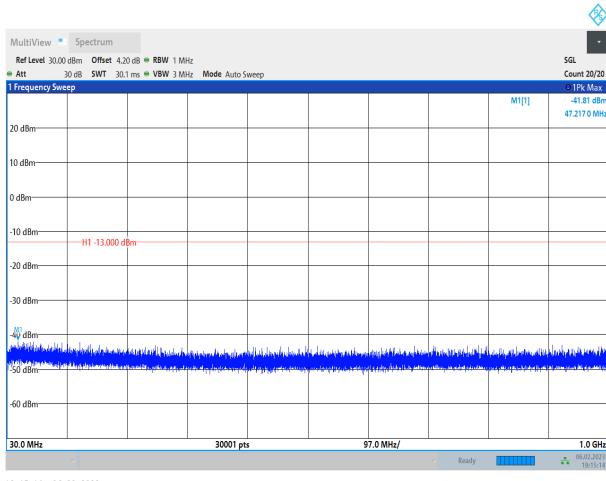
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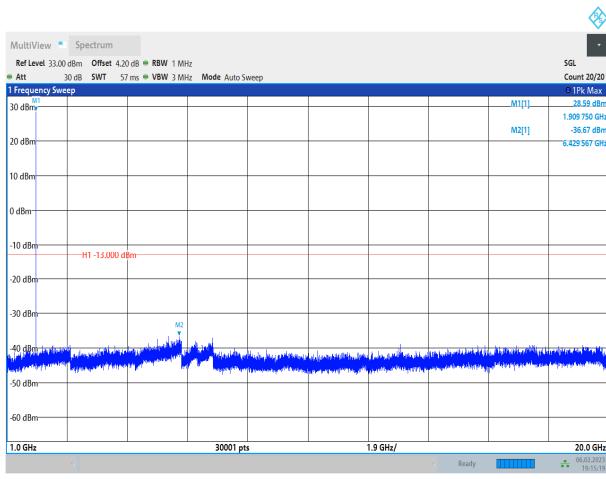
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GSM1900-661-30~1000MHz



GSM1900-661-1000~2000MHz



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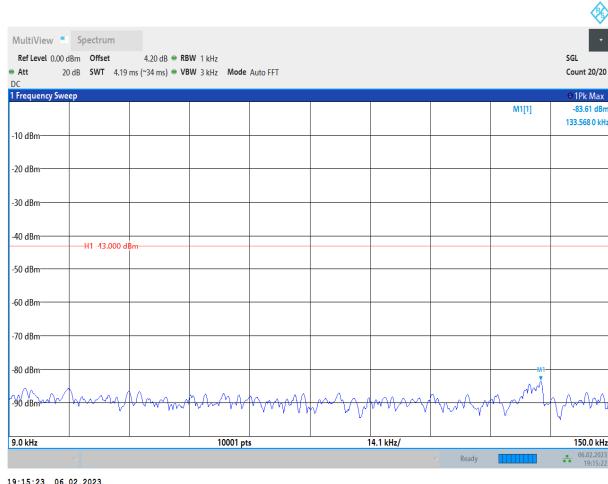
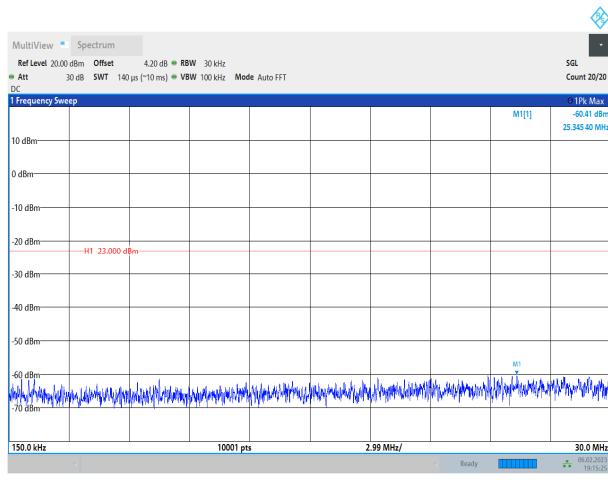
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GSM1900-810-0.009~0.15MHz**GSM1900-810-0.15~30MHz**

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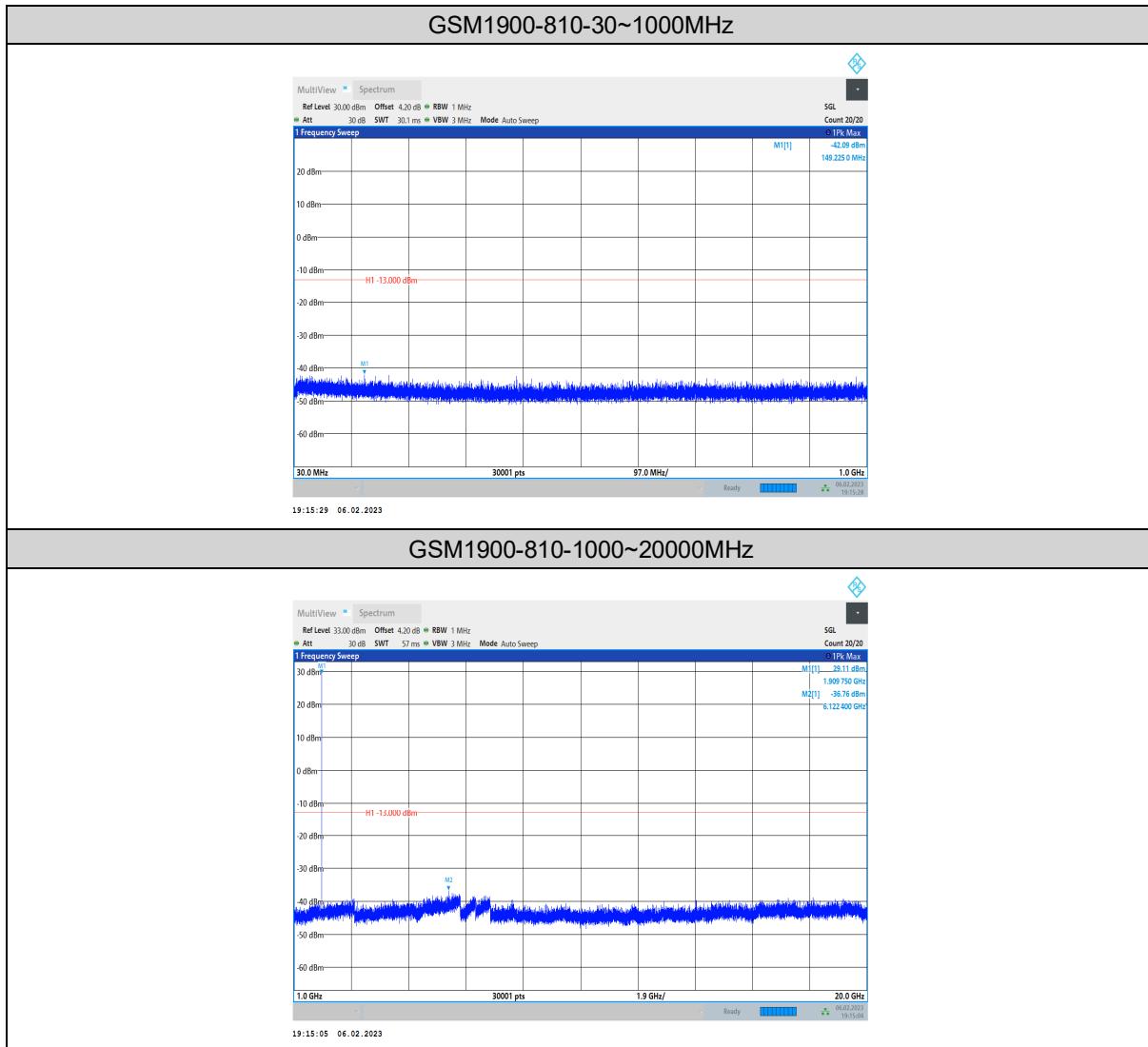
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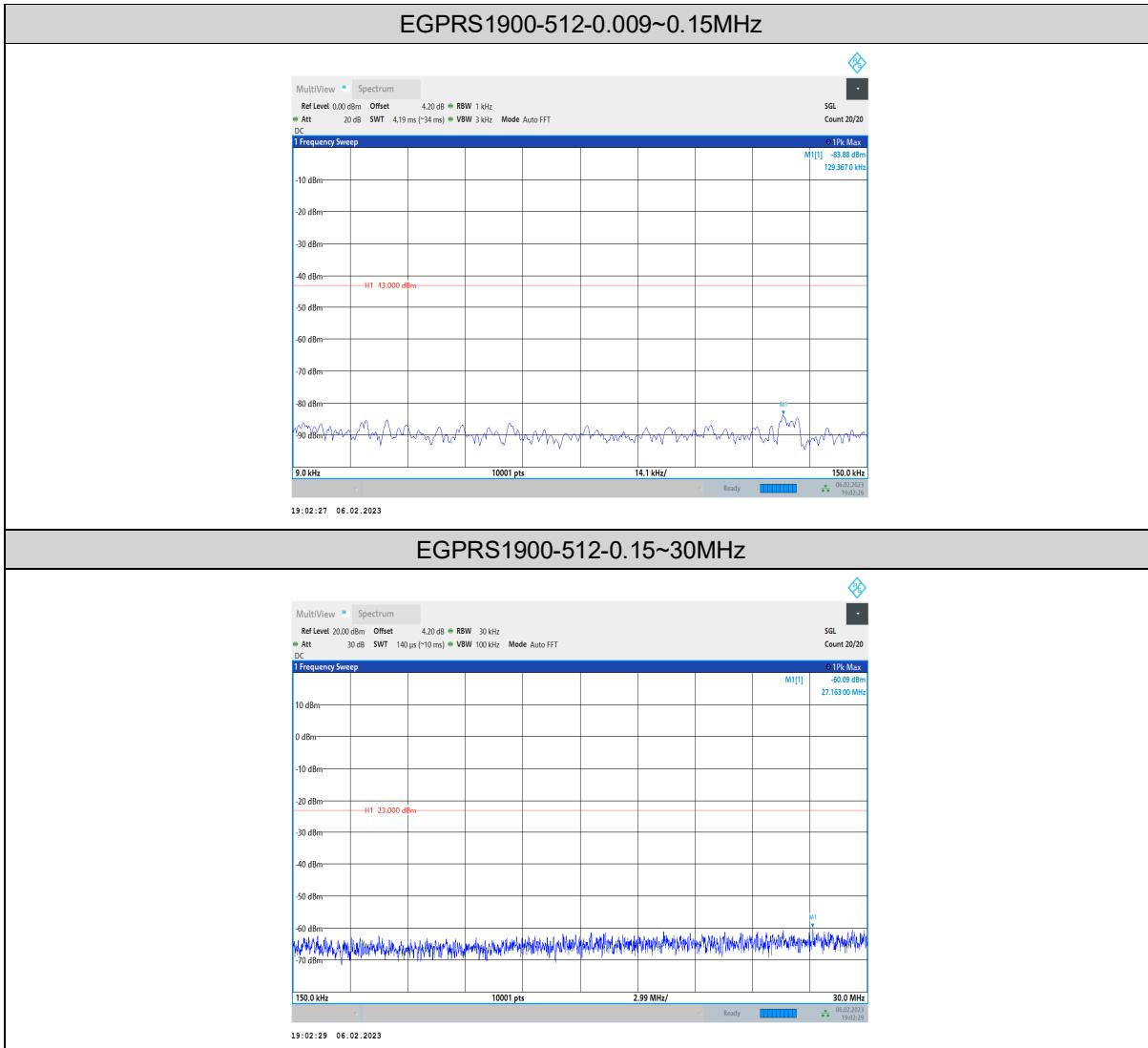
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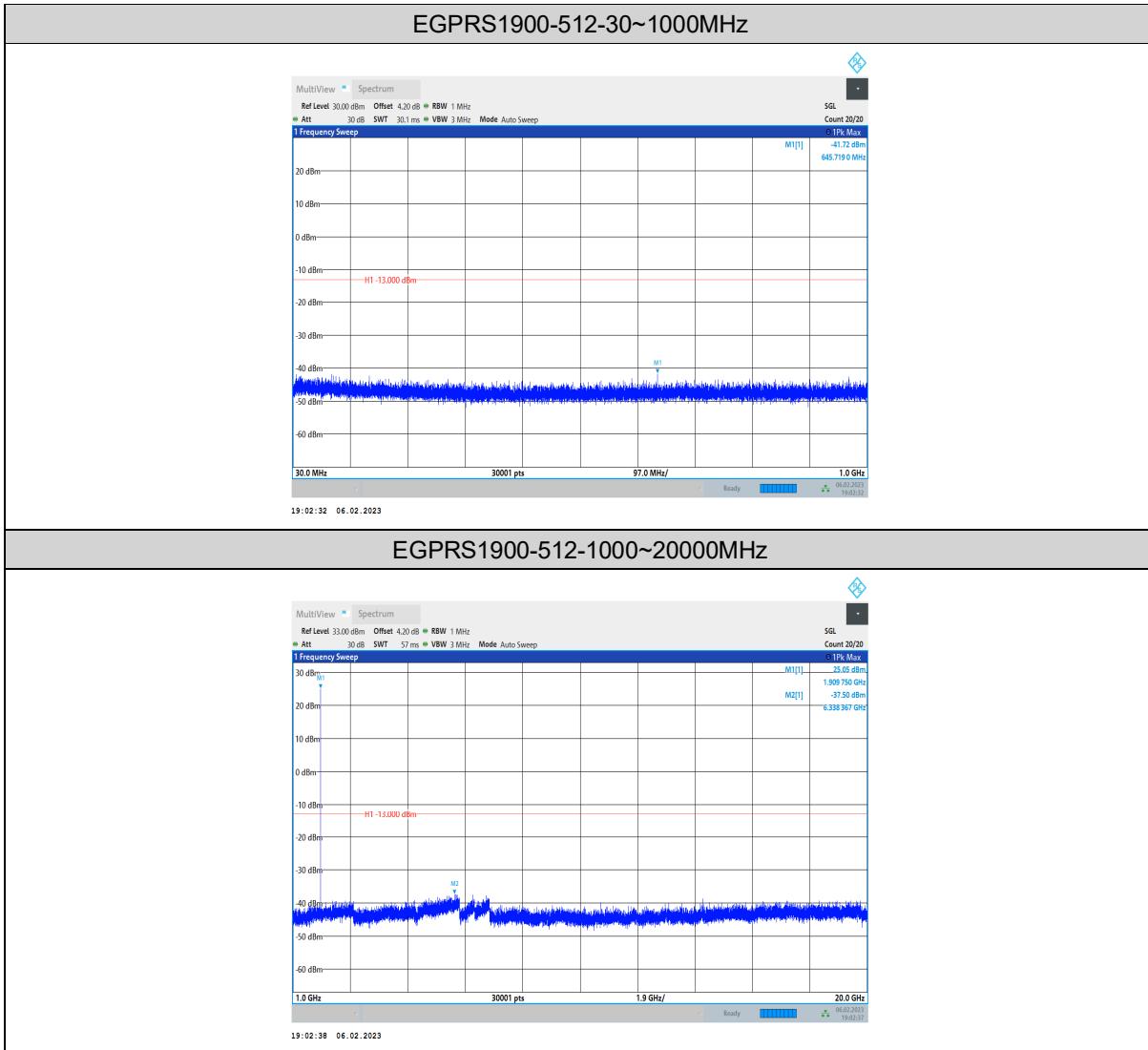
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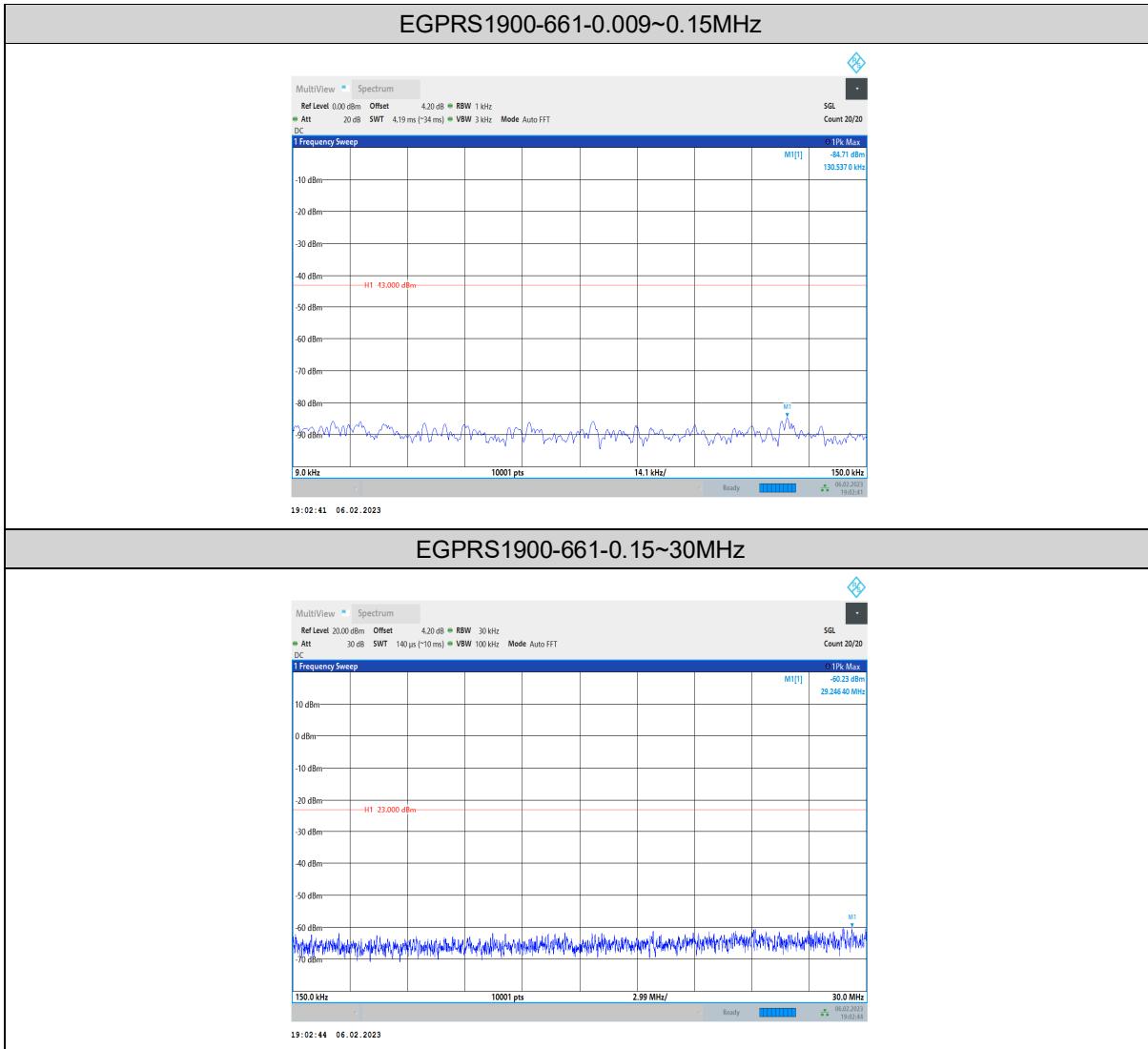
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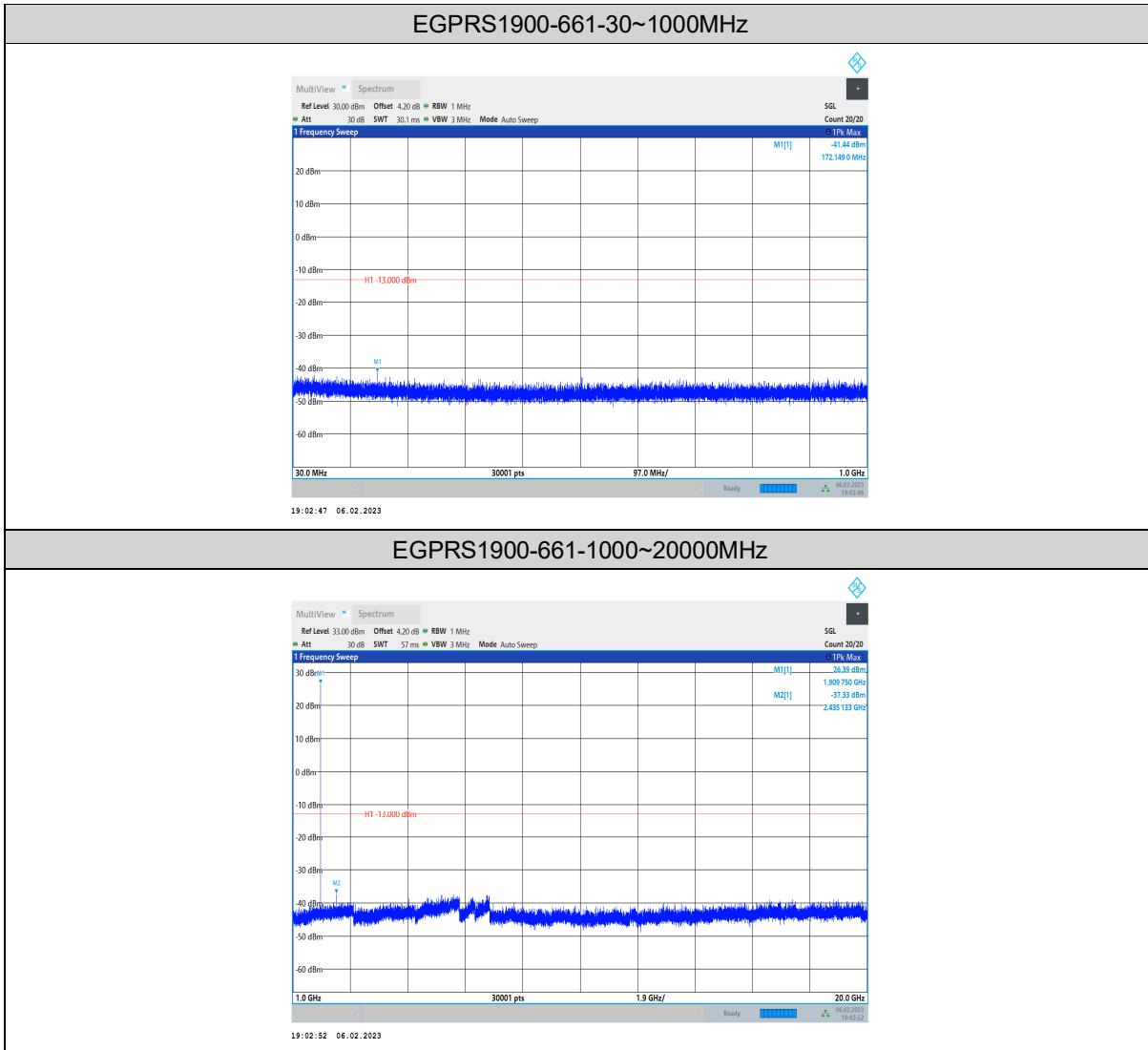
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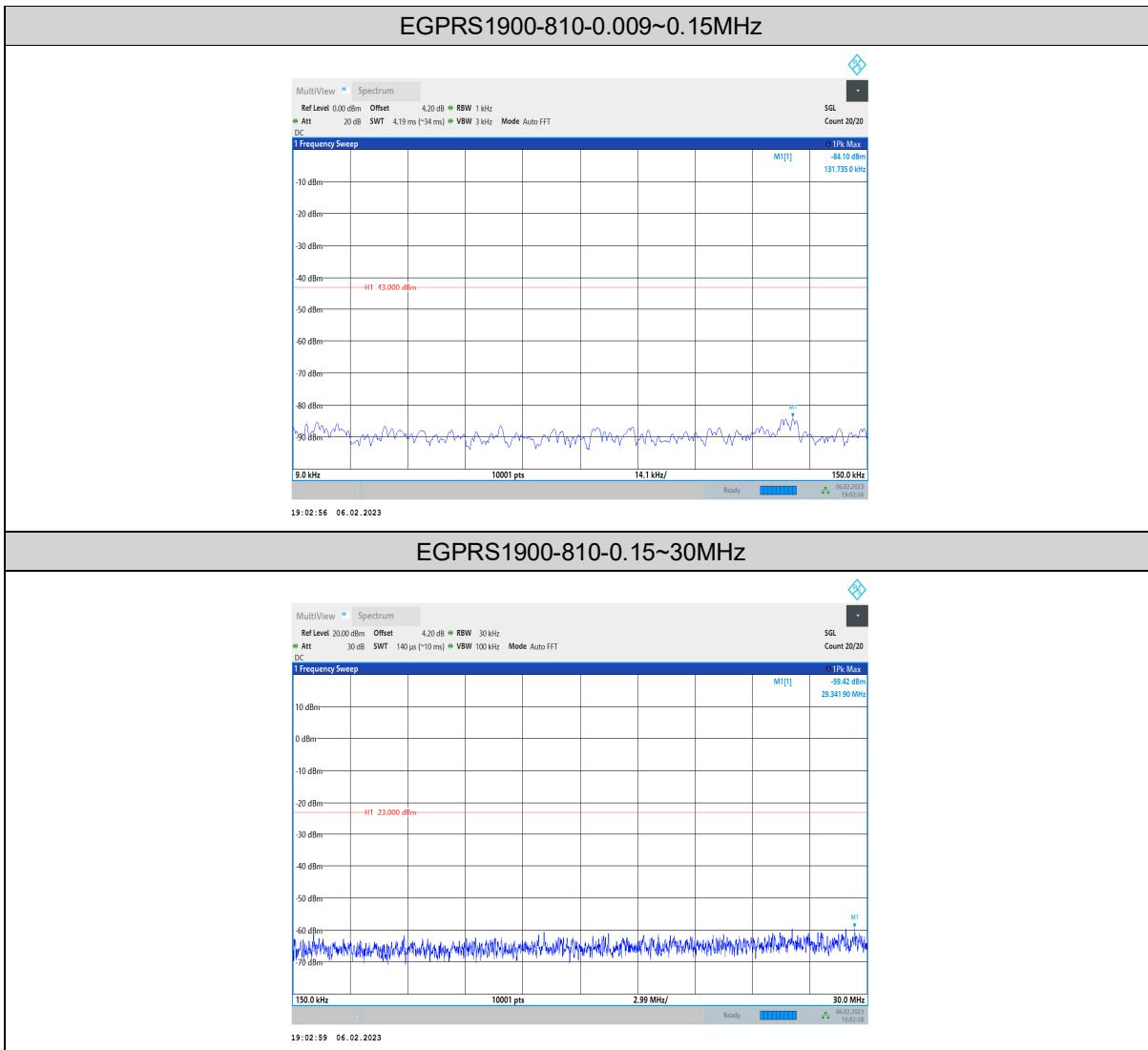
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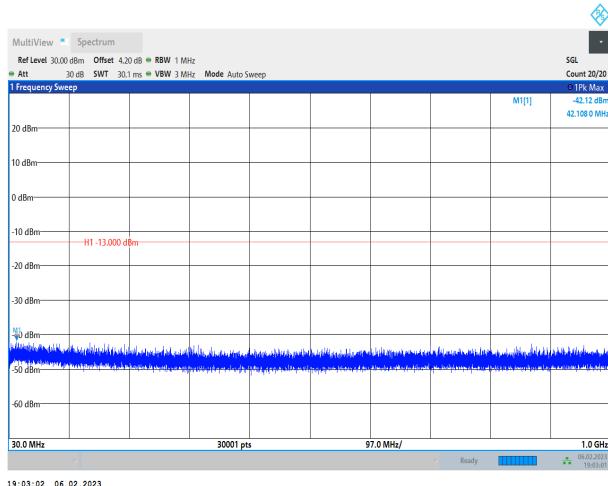
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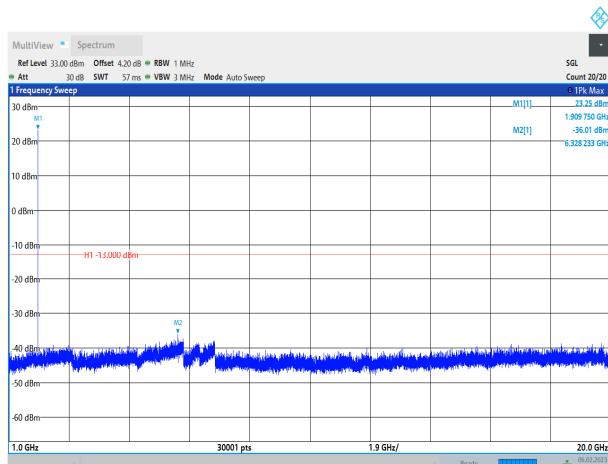
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EGPRS1900-810-30~1000MHz



19:03:02 06.02.2023

EGPRS1900-810-1000~2000MHz



19:03:07 06.02.2023

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Field Strength of Spurious Radiation

Test Band = GSM 850
Test Channel = Low Channel

Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4	44.69	-48.38	25.58	-73.38	-13.00	60.38	214	106	Horizontal
2	2472.6	42.71	-46.97	27.85	-71.67	-13.00	58.67	163	106	Horizontal
3	3296.8	41.68	-46.11	29.48	-70.21	-13.00	57.21	295	211	Horizontal
4	4121	40.48	-45.35	30.79	-69.33	-13.00	56.33	284	166	Horizontal
5	4945.2	40.53	-45.09	32.47	-67.35	-13.00	54.35	273	0	Horizontal
6	5769.4	39.11	-43.53	33.46	-66.21	-13.00	53.21	156	271	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5760	45.15	-43.53	33.43	-60.21	-13.00	47.21	279	129	Vertical
2	1648.4	45.80	-48.38	25.58	-72.27	-13.00	59.27	216	70	Vertical
3	2472.6	42.49	-46.97	27.85	-71.89	-13.00	58.89	238	360	Vertical
4	3296.8	42.39	-46.11	29.48	-69.50	-13.00	56.50	246	3	Vertical
5	4121	40.58	-45.35	30.79	-69.23	-13.00	56.23	157	307	Vertical
6	4945.2	40.85	-45.09	32.47	-67.03	-13.00	54.03	203	360	Vertical

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 Wireless Laboratory Inspection & Testing Services (苏州)

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Test Band = GSM 850
Test Channel = Mid Channel

Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8	47.52	-48.32	25.56	-70.49	-13.00	57.49	214	151	Horizontal
2	2509.2	42.81	-46.79	27.93	-71.31	-13.00	58.31	173	111	Horizontal
3	3345.6	42.28	-46.19	29.46	-69.71	-13.00	56.71	231	12	Horizontal
4	4182	40.81	-45.16	30.89	-68.72	-13.00	55.72	296	212	Horizontal
5	5018.4	40.23	-44.93	32.60	-67.36	-13.00	54.36	186	168	Horizontal
6	5854.8	39.59	-43.34	33.74	-65.27	-13.00	52.27	208	227	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8	48.72	-48.32	25.56	-69.29	-13.00	56.29	259	72	Vertical
2	2509.2	42.81	-46.79	27.93	-71.31	-13.00	58.31	264	337	Vertical
3	3345.6	42.29	-46.19	29.46	-69.70	-13.00	56.70	182	248	Vertical
4	4182	40.69	-45.16	30.89	-68.84	-13.00	55.84	235	72	Vertical
5	5018.4	40.31	-44.93	32.60	-67.28	-13.00	54.28	187	279	Vertical
6	5854.8	39.70	-43.34	33.74	-65.16	-13.00	52.16	216	118	Vertical

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Test Band = GSM 850
Test Channel = High Channel

Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6	44.93	-48.25	25.55	-73.02	-13.00	60.02	289	41	Horizontal
2	2546.4	42.72	-46.97	28.06	-71.45	-13.00	58.45	169	130	Horizontal
3	3395.2	42.22	-46.27	29.44	-69.87	-13.00	56.87	235	2	Horizontal
4	4244	40.48	-45.11	30.99	-68.90	-13.00	55.90	141	15	Horizontal
5	5092.8	40.45	-44.62	32.60	-66.83	-13.00	53.83	129	145	Horizontal
6	5941.6	39.92	-43.35	34.01	-64.68	-13.00	51.68	268	99	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6	47.18	-48.25	25.55	-70.77	-13.00	57.77	298	74	Vertical
2	2546.4	42.77	-46.97	28.06	-71.40	-13.00	58.40	174	264	Vertical
3	3395.2	42.05	-46.27	29.44	-70.04	-13.00	57.04	188	264	Vertical
4	4244	40.59	-45.11	30.99	-68.79	-13.00	55.79	159	3	Vertical
5	5092.8	40.72	-44.62	32.60	-66.56	-13.00	53.56	230	338	Vertical
6	5941.6	39.53	-43.35	34.01	-65.07	-13.00	52.07	168	235	Vertical

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Report No.: SEWA2211000080RG01
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Test Band = GSM1900
 Test Channel = Low Channel

Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3700.4	52.26	-45.70	29.88	-58.82	-13.00	45.82	169	259	Horizontal
2	5550.6	53.06	-43.87	32.76	-53.31	-13.00	40.31	254	360	Horizontal
3	7400.8	39.51	-41.98	36.44	-61.29	-13.00	48.29	216	31	Horizontal
4	9251	34.38	-38.39	38.57	-60.70	-13.00	47.70	305	98	Horizontal
5	11101.2	31.59	-35.37	39.50	-59.55	-13.00	46.55	229	292	Horizontal
6	12951.4	33.24	-34.89	39.55	-57.36	-13.00	44.36	147	179	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3700.4	62.92	-45.70	29.88	-48.16	-13.00	35.16	241	262	Vertical
2	5550.6	60.38	-43.87	32.76	-45.99	-13.00	32.99	161	344	Vertical
3	7400.8	39.80	-41.98	36.44	-61.00	-13.00	48.00	231	49	Vertical
4	9251	37.13	-38.39	38.57	-57.95	-13.00	44.95	284	65	Vertical
5	11101.2	32.37	-35.37	39.50	-58.77	-13.00	45.77	193	359	Vertical
6	12951.4	44.05	-34.89	39.55	-46.55	-13.00	33.55	227	358	Vertical



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Test Band = GSM1900
Test Channel = Mid Channel

Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760	40.41	-45.54	30.03	-70.36	-13.00	57.36	214	360	Horizontal
2	5640	53.63	-43.81	33.05	-52.39	-13.00	39.39	263	3	Horizontal
3	7520	38.75	-41.53	36.54	-61.50	-13.00	48.50	274	243	Horizontal
4	9400	34.29	-38.16	38.56	-60.57	-13.00	47.57	204	294	Horizontal
5	11280	31.58	-35.28	39.32	-59.64	-13.00	46.64	185	82	Horizontal
6	13160	32.57	-34.68	39.70	-57.67	-13.00	44.67	154	360	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760	49.30	-45.54	30.03	-61.47	-13.00	48.47	274	166	Vertical
2	5640	59.15	-43.81	33.05	-46.87	-13.00	33.87	293	49	Vertical
3	7520	40.67	-41.53	36.54	-59.58	-13.00	46.58	147	247	Vertical
4	9400	37.88	-38.16	38.56	-56.98	-13.00	43.98	168	4	Vertical
5	11280	31.71	-35.28	39.32	-59.51	-13.00	46.51	214	353	Vertical
6	13160	53.21	-34.68	39.70	-37.03	-13.00	24.03	253	358	Vertical

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Report No.: SEWA2211000080RG01
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Test Band = GSM1900
Test Channel = High Channel

Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5729.25	51.77	-43.66	33.33	-53.81	-13.00	40.81	153	4	Horizontal
2	3819.6	49.82	-45.44	30.17	-60.71	-13.00	47.71	241	360	Horizontal
3	7639.2	38.10	-41.29	36.78	-61.67	-13.00	48.67	293	358	Horizontal
4	9549	36.33	-38.13	38.55	-58.51	-13.00	45.51	304	230	Horizontal
5	11458.8	32.14	-35.27	39.14	-59.24	-13.00	46.24	211	353	Horizontal
6	13368.6	47.95	-35.13	39.82	-42.62	-13.00	29.62	168	83	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5729.25	54.88	-43.66	33.33	-50.70	-13.00	37.70	234	146	Vertical
2	3819.6	53.87	-45.44	30.17	-56.66	-13.00	43.66	162	162	Vertical
3	7639.2	39.40	-41.29	36.78	-60.37	-13.00	47.37	197	196	Vertical
4	9549	38.48	-38.13	38.55	-56.36	-13.00	43.36	228	82	Vertical
5	11458.8	32.01	-35.27	39.14	-59.37	-13.00	46.37	297	360	Vertical
6	13368.6	55.71	-35.13	39.82	-34.86	-13.00	21.86	203	357	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

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

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

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Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	VL	NT	-2.40	-0.002869	±2.5	PASS
GSM850	190	VN	NT	0.84	0.001004	±2.5	PASS
GSM850	190	VH	NT	-3.28	-0.003921	±2.5	PASS
EGPRS850	190	VL	NT	-4.38	-0.005235	±2.5	PASS
EGPRS850	190	VN	NT	-4.80	-0.005738	±2.5	PASS
EGPRS850	190	VH	NT	-1.55	-0.001853	±2.5	PASS

Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	VL	NT	2.91	0.001548	PASS
GSM1900	661	VN	NT	-0.05	-0.000027	PASS
GSM1900	661	VH	NT	4.54	0.002415	PASS
EGPRS1900	661	VL	NT	-5.73	-0.003048	PASS
EGPRS1900	661	VN	NT	-5.05	-0.002686	PASS
EGPRS1900	661	VH	NT	-1.37	-0.000729	PASS

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Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	-6.05	-0.007232	±2.5	PASS
GSM850	190	NV	-20	-9.57	-0.011439	±2.5	PASS
GSM850	190	NV	-10	-12.40	-0.014822	±2.5	PASS
GSM850	190	NV	0	-13.98	-0.016710	±2.5	PASS
GSM850	190	NV	10	-13.35	-0.015957	±2.5	PASS
GSM850	190	NV	20	-14.53	-0.017368	±2.5	PASS
GSM850	190	NV	30	-12.04	-0.014392	±2.5	PASS
GSM850	190	NV	40	-12.45	-0.014882	±2.5	PASS
GSM850	190	NV	50	-12.88	-0.015396	±2.5	PASS
EGPRS850	190	NV	-30	-6.19	-0.007399	±2.5	PASS
EGPRS850	190	NV	-20	-3.35	-0.004004	±2.5	PASS
EGPRS850	190	NV	-10	-3.22	-0.003849	±2.5	PASS
EGPRS850	190	NV	0	-7.45	-0.008905	±2.5	PASS
EGPRS850	190	NV	10	-4.25	-0.005080	±2.5	PASS
EGPRS850	190	NV	20	-4.34	-0.005188	±2.5	PASS
EGPRS850	190	NV	30	-3.51	-0.004196	±2.5	PASS
EGPRS850	190	NV	40	-1.22	-0.001458	±2.5	PASS
EGPRS850	190	NV	50	-4.35	-0.005200	±2.5	PASS



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Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	NV	-30	-0.86	-0.000457	PASS
GSM1900	661	NV	-20	0.29	0.000154	PASS
GSM1900	661	NV	-10	4.49	0.002388	PASS
GSM1900	661	NV	0	2.43	0.001293	PASS
GSM1900	661	NV	10	1.96	0.001043	PASS
GSM1900	661	NV	20	-0.43	-0.000229	PASS
GSM1900	661	NV	30	-1.26	-0.000670	PASS
GSM1900	661	NV	40	-2.75	-0.001463	PASS
GSM1900	661	NV	50	-0.43	-0.000229	PASS
EGPRS1900	661	NV	-30	0.46	0.000245	PASS
EGPRS1900	661	NV	-20	-1.92	-0.001021	PASS
EGPRS1900	661	NV	-10	-2.75	-0.001463	PASS
EGPRS1900	661	NV	0	0.50	0.000266	PASS
EGPRS1900	661	NV	10	-0.90	-0.000479	PASS
EGPRS1900	661	NV	20	-4.71	-0.002505	PASS
EGPRS1900	661	NV	30	-2.65	-0.001410	PASS
EGPRS1900	661	NV	40	-6.50	-0.003457	PASS
EGPRS1900	661	NV	50	-5.50	-0.002926	PASS

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