



Report No.: SEWM2209000170RG01

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Appendix B.1

GSM850&1900



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT0:

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
GSM850	128	32.35	23	38.45	PASS
GSM850	190	32.43	23.08	38.45	PASS
GSM850	251	32.49	23.2	38.45	PASS
Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	29.92	26.12	33.00	PASS
GSM1900	661	30.00	26.2	33.00	PASS
GSM1900	810	29.85	26.05	33.00	PASS



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Band	Channel	Slot	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	26.26	16.91	38.45	PASS
EGPRS850	128	2	23.22	13.87	38.45	PASS
EGPRS850	128	3	21.42	12.07	38.45	PASS
EGPRS850	128	4	20.98	11.63	38.45	PASS
EGPRS850	190	1	26.40	17.05	38.45	PASS
EGPRS850	190	2	23.43	14.08	38.45	PASS
EGPRS850	190	3	21.58	12.23	38.45	PASS
EGPRS850	190	4	21.13	11.78	38.45	PASS
EGPRS850	251	1	26.53	17.18	38.45	PASS
EGPRS850	251	2	23.45	14.1	38.45	PASS
EGPRS850	251	3	21.62	12.27	38.45	PASS
EGPRS850	251	4	21.14	11.79	38.45	PASS
Band	Channel	Slot	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	26.31	22.51	33.00	PASS
EGPRS1900	512	2	22.83	19.03	33.00	PASS
EGPRS1900	512	3	20.47	16.67	33.00	PASS
EGPRS1900	512	4	19.53	15.73	33.00	PASS
EGPRS1900	661	1	26.08	22.28	33.00	PASS
EGPRS1900	661	2	22.79	18.99	33.00	PASS
EGPRS1900	661	3	20.50	16.7	33.00	PASS
EGPRS1900	661	4	19.57	15.77	33.00	PASS
EGPRS1900	810	1	25.90	22.1	33.00	PASS
EGPRS1900	810	2	22.67	18.87	33.00	PASS
EGPRS1900	810	3	20.33	16.53	33.00	PASS
EGPRS1900	810	4	19.44	15.64	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	7.92	13	PASS
GSM850	251	7.92	13	PASS
EGPRS850	128	12.3	13	PASS
EGPRS850	190	12.32	13	PASS
EGPRS850	251	12.34	13	PASS
GSM1900	512	9.42	13	PASS
GSM1900	661	9.42	13	PASS
GSM1900	810	9.42	13	PASS
EGPRS1900	512	12.3	13	PASS
EGPRS1900	661	12.36	13	PASS
EGPRS1900	810	12.4	13	PASS



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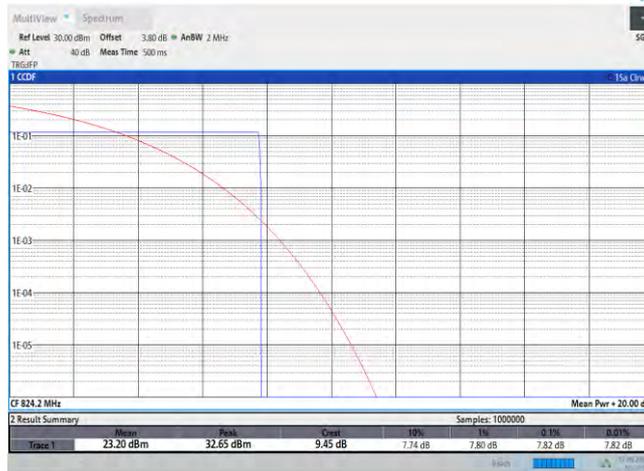
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Test Graphs

GSM850-128



18:26:57 12.09.2022

GSM850-190



18:27:18 12.09.2022



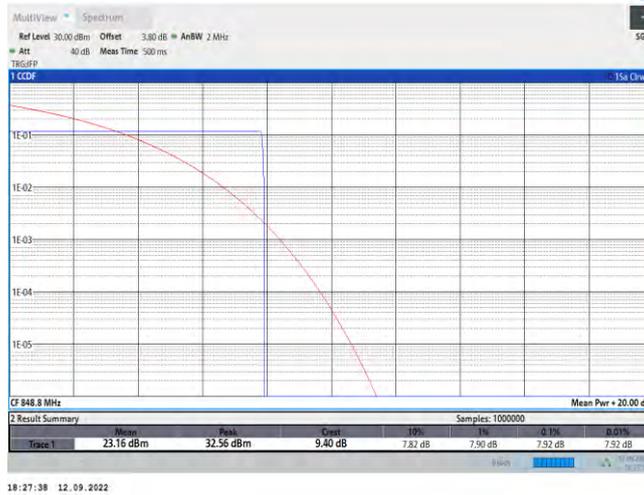
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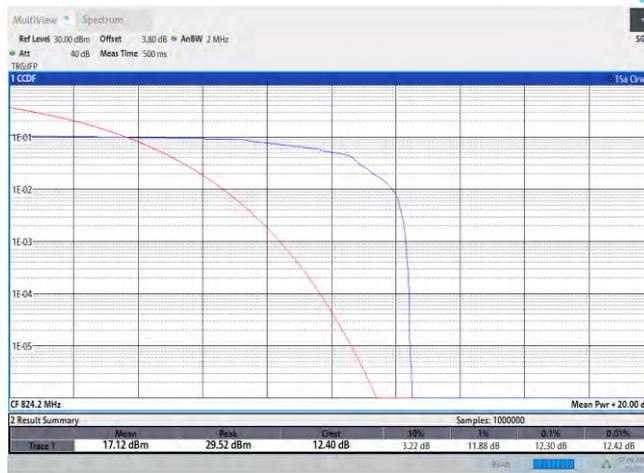
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GSM850-251



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EGPRS850-128



19:09:56 12.09.2022

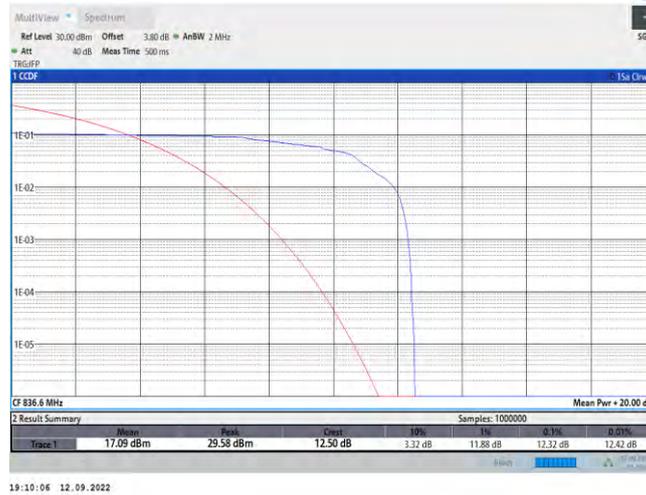


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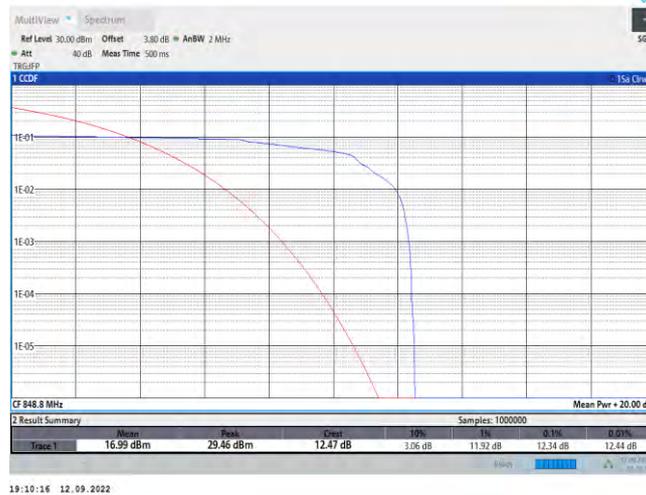
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EGPRS850-190



EGPRS850-251



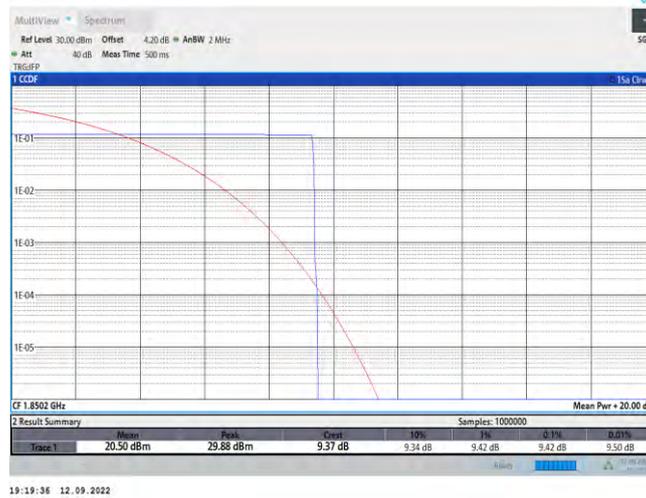
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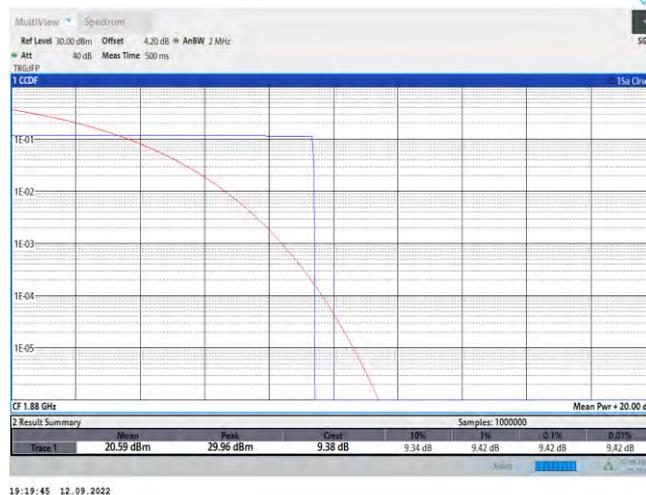
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GSM1900-512



GSM1900-661



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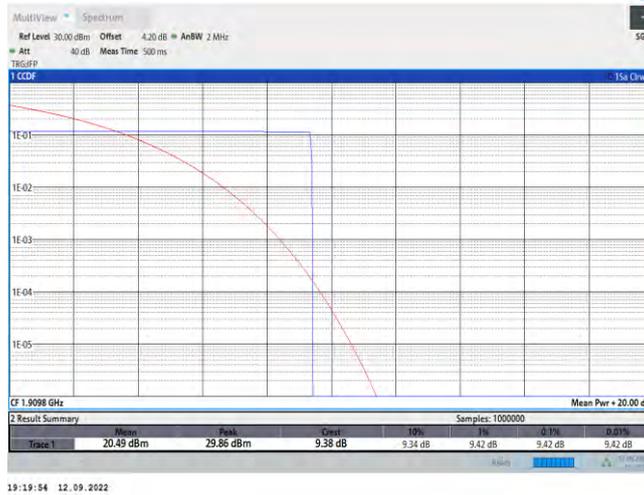


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GSM1900-810



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EGPRS1900-512



19:32:02 12.09.2022



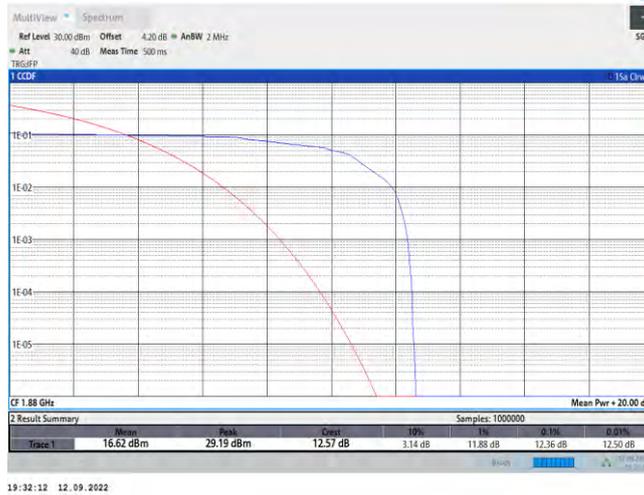
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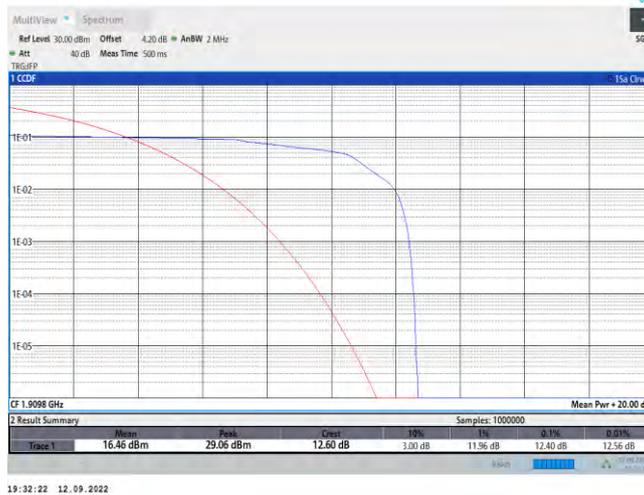
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EGPRS1900-661



EGPRS1900-810



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Modulation Characteristics

Test Result

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

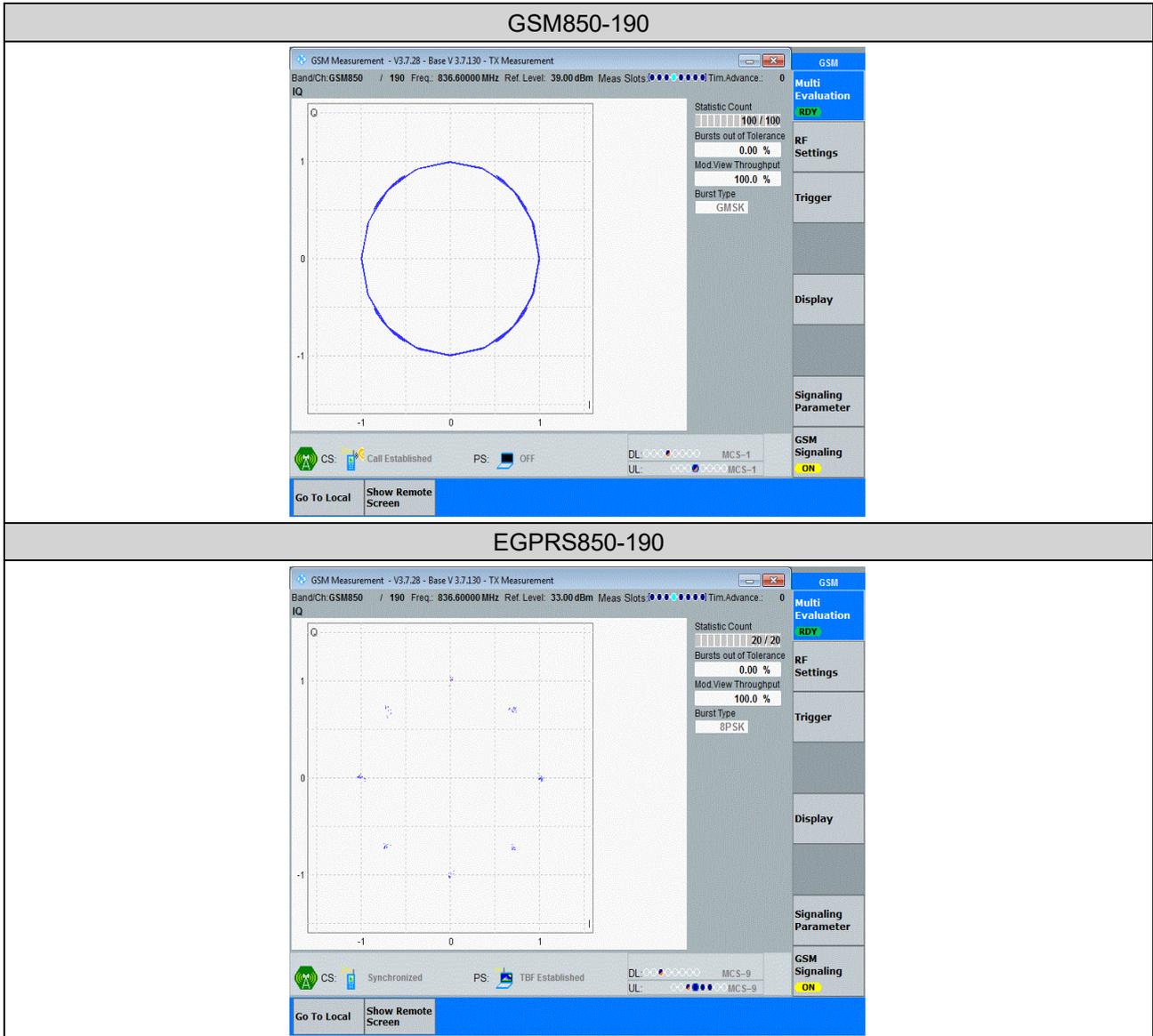


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Test Graphs

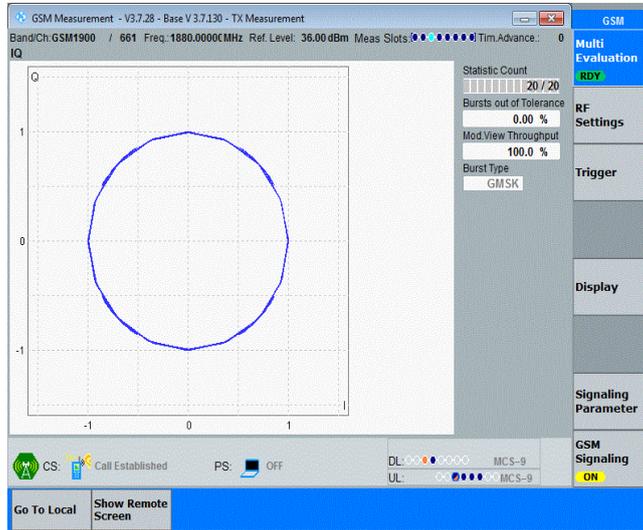


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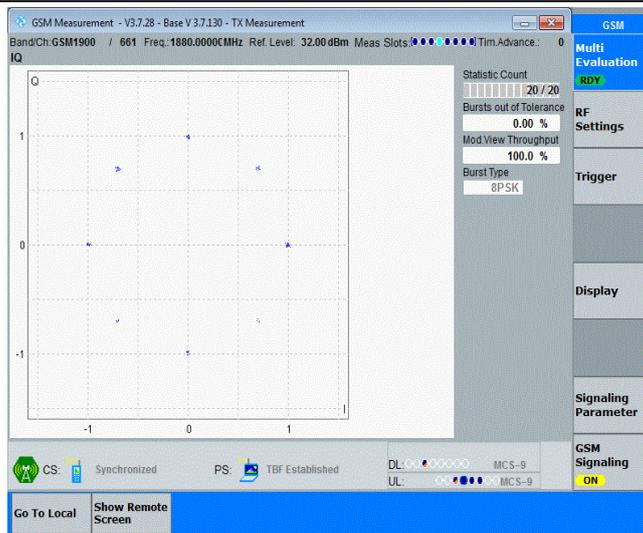
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GSM1900-661



EGPRS1900-661



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.247	0.31	---	PASS
GSM850	190	0.246	0.32	---	PASS
GSM850	251	0.247	0.32	---	PASS
EGPRS850	128	0.255	0.33	---	PASS
EGPRS850	190	0.255	0.33	---	PASS
EGPRS850	251	0.251	0.33	---	PASS
GSM1900	512	0.245	0.32	---	PASS
GSM1900	661	0.246	0.32	---	PASS
GSM1900	810	0.247	0.32	---	PASS
EGPRS1900	512	0.253	0.33	---	PASS
EGPRS1900	661	0.25	0.33	---	PASS
EGPRS1900	810	0.251	0.33	---	PASS



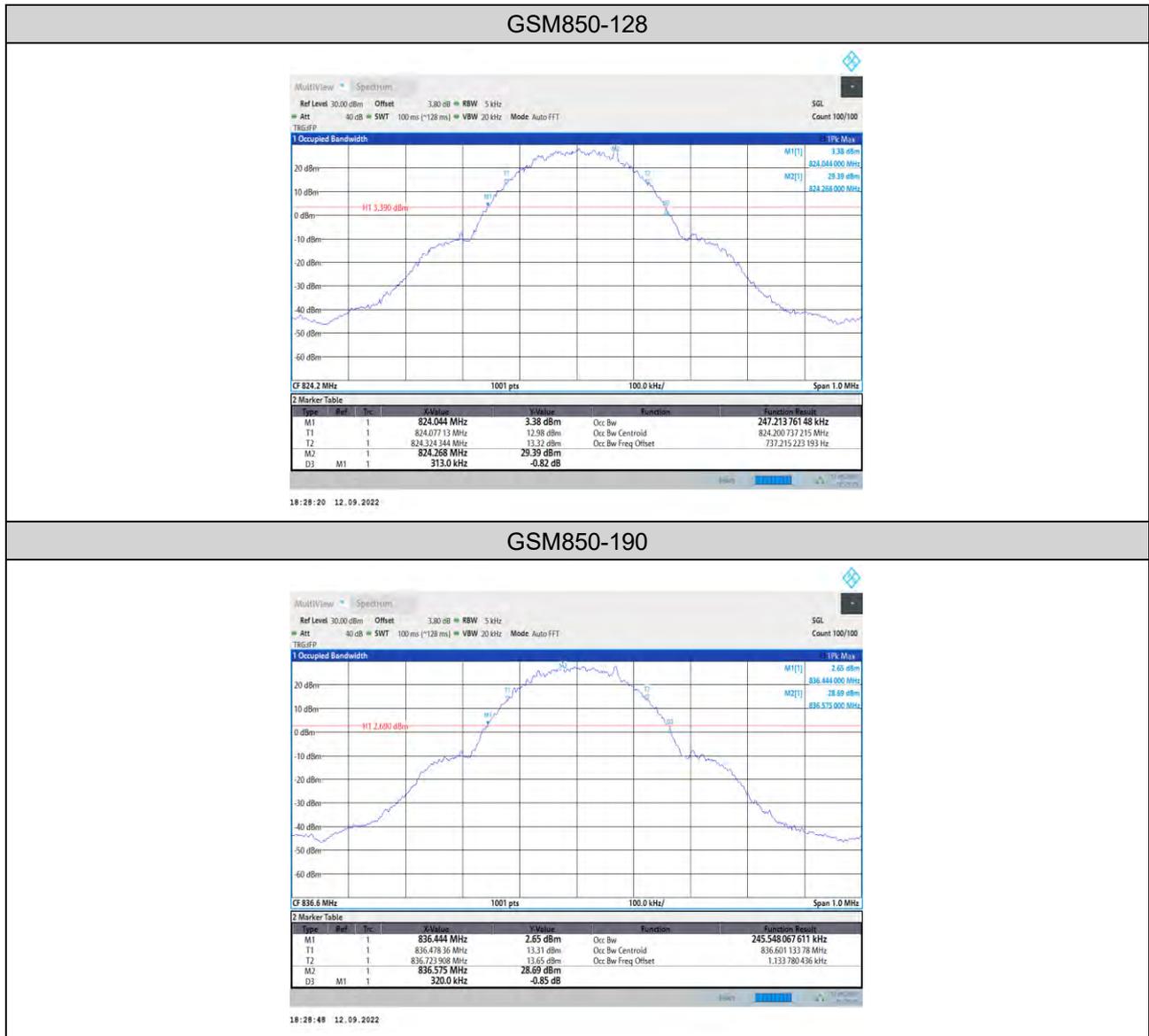
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Test Graphs



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GSM850-251



18:29:17 12.09.2022

EGPRS850-128



19:11:06 12.09.2022



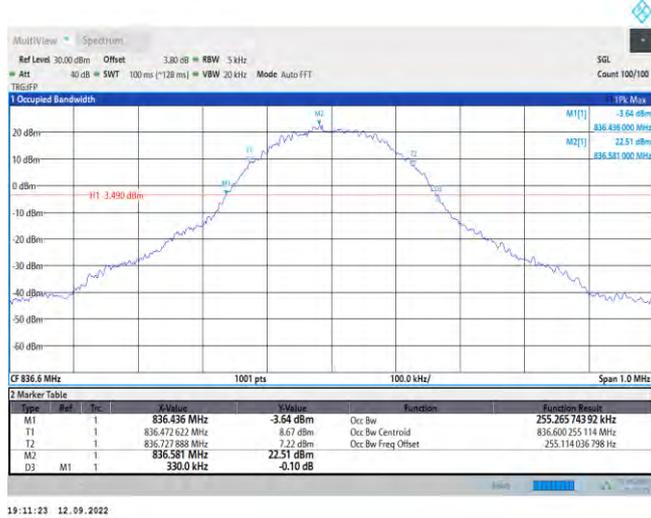
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EGPRS850-190



19-11-23 12.09.2022

EGPRS850-251



19-11-41 12.09.2022



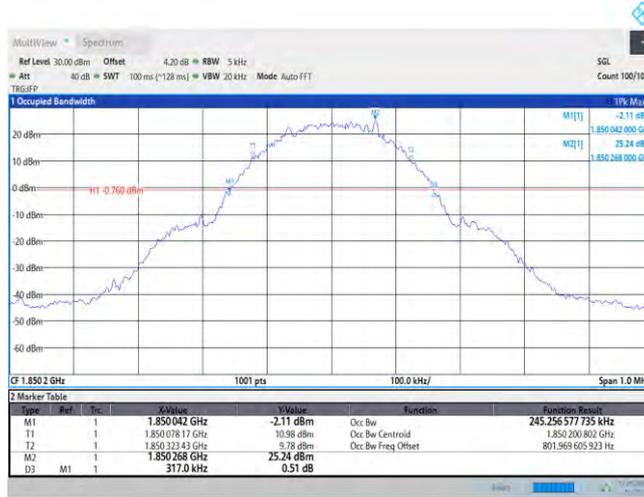
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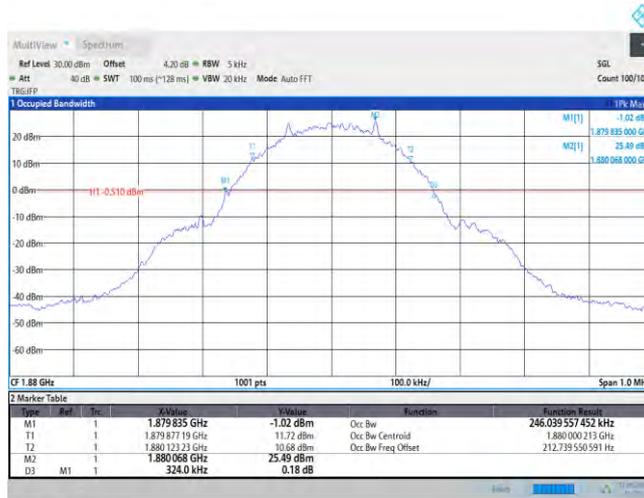
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GSM1900-512



19:20:39 12.09.2022

GSM1900-661



19:20:56 12.09.2022



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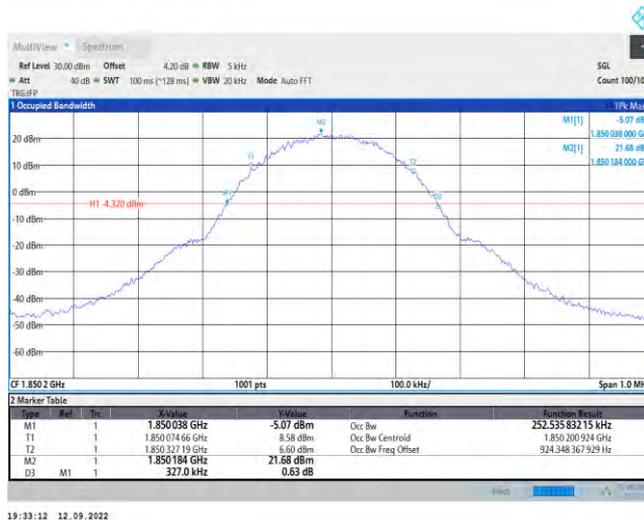
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GSM1900-810



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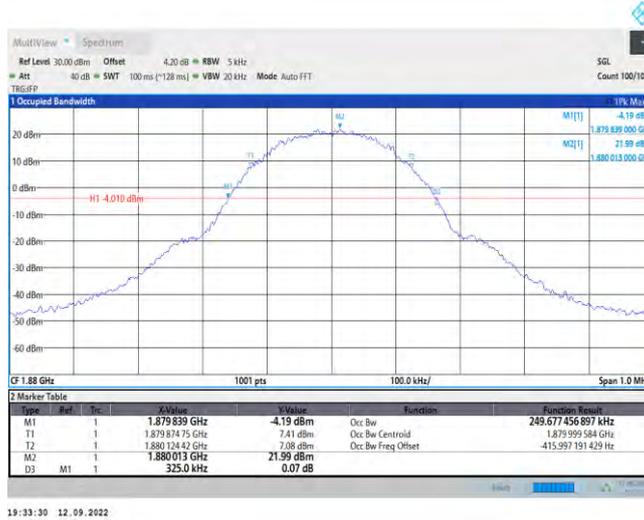
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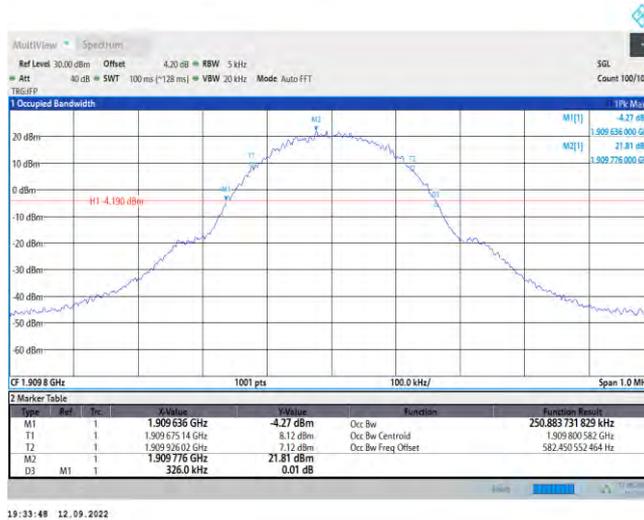
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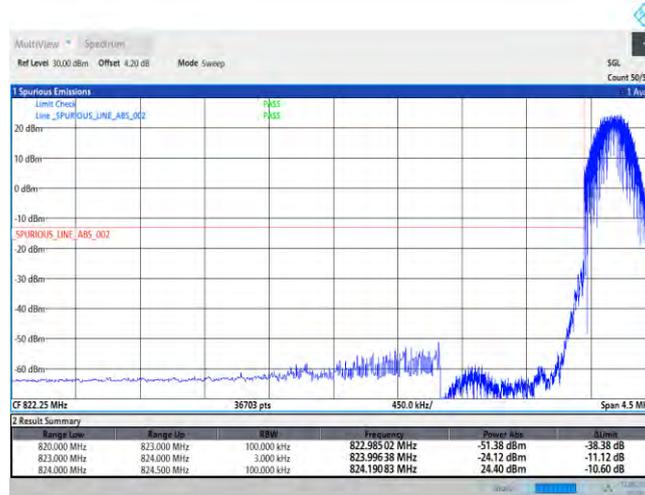
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Band Edge

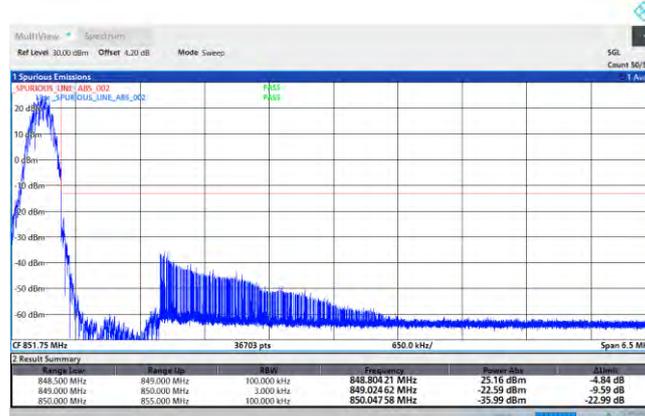
Test Graphs

GSM850-128



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GSM850-251



18:39:48 12.09.2022



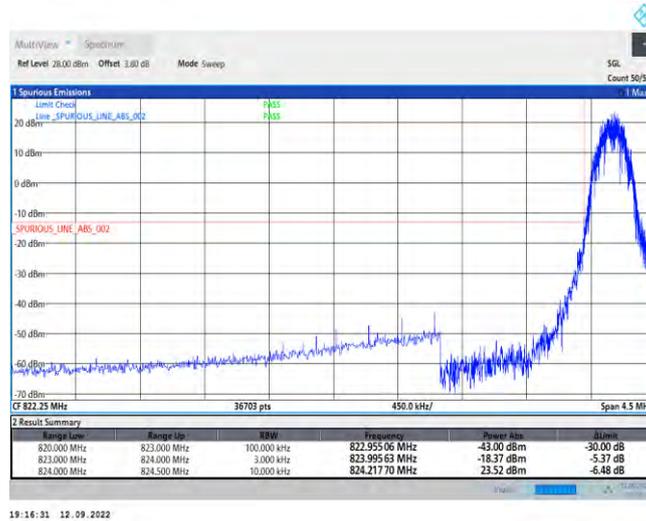
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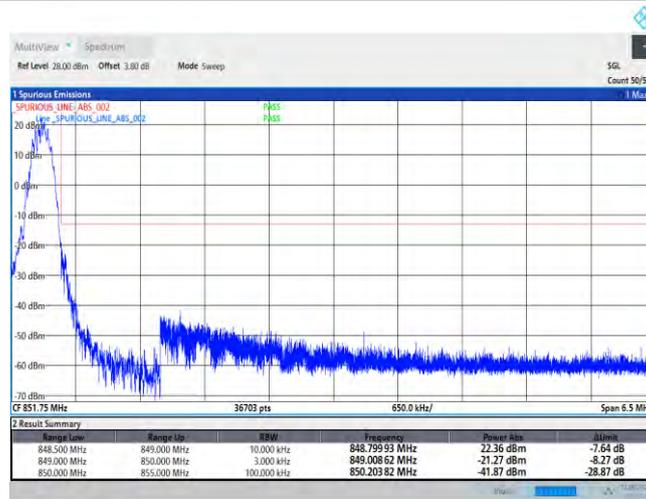
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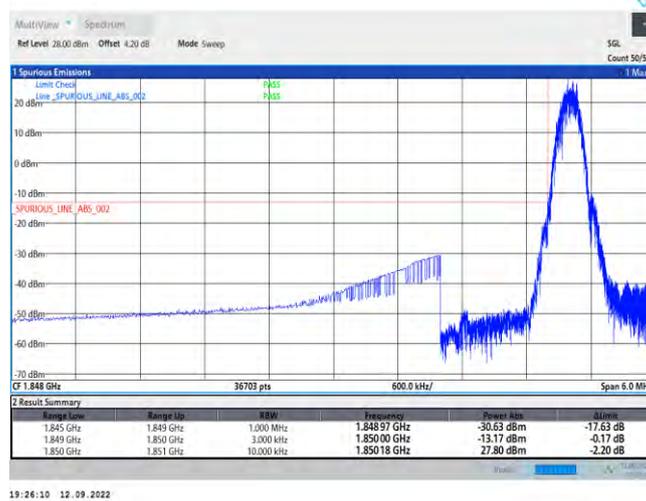
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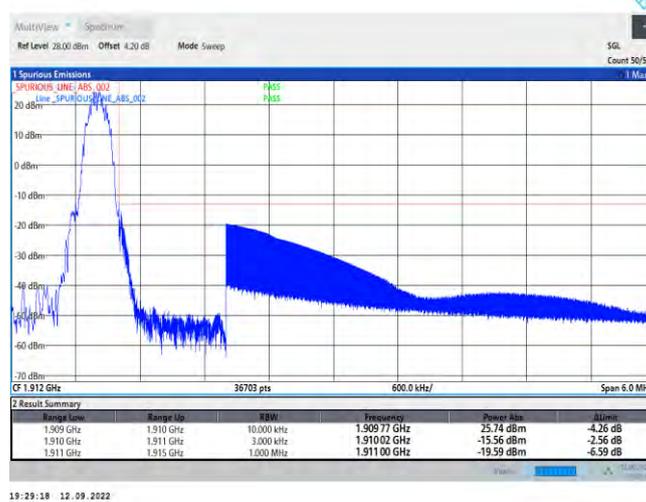
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GSM1900-512



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GSM1900-810



19-29-18 12.09.2022



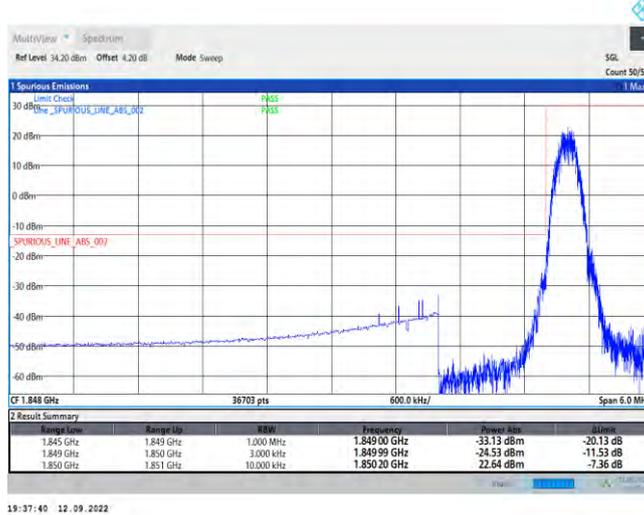
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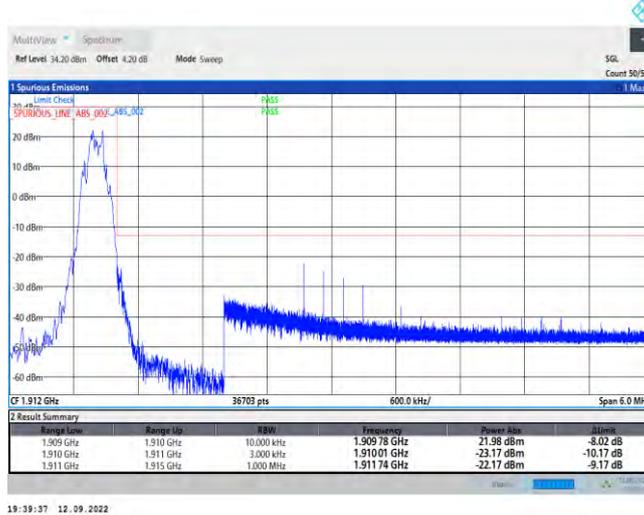
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EGPRS1900-810



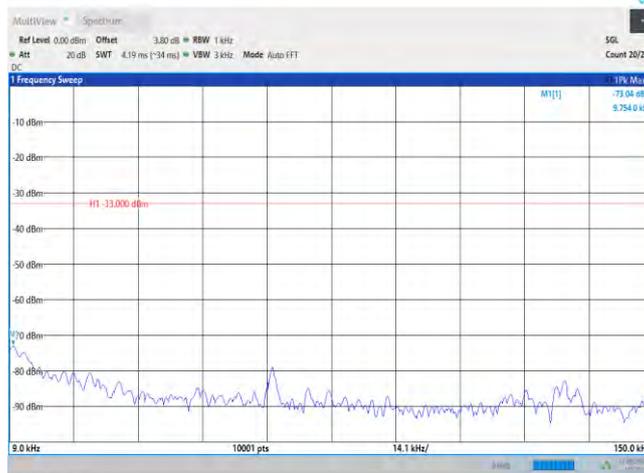
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Conducted Spurious Emission

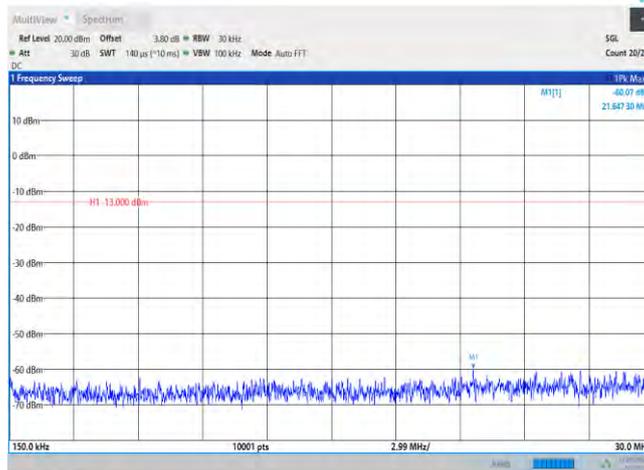
Test Graphs

GSM850-128-0.009~0.15MHz



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GSM850-128-0.15~30MHz



19:50:39 12.09.2022



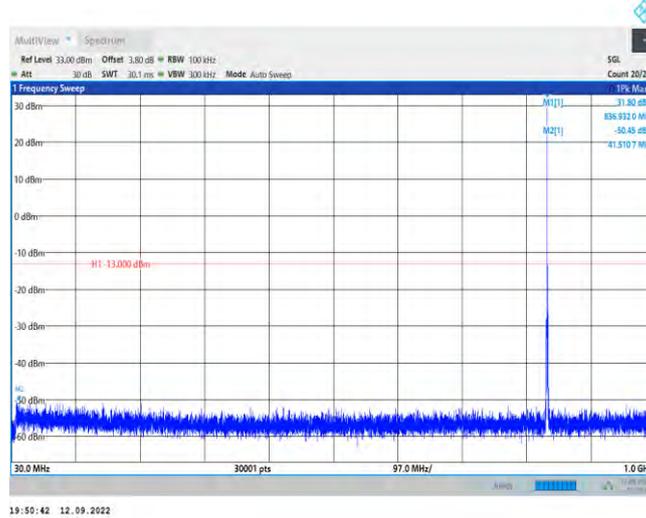
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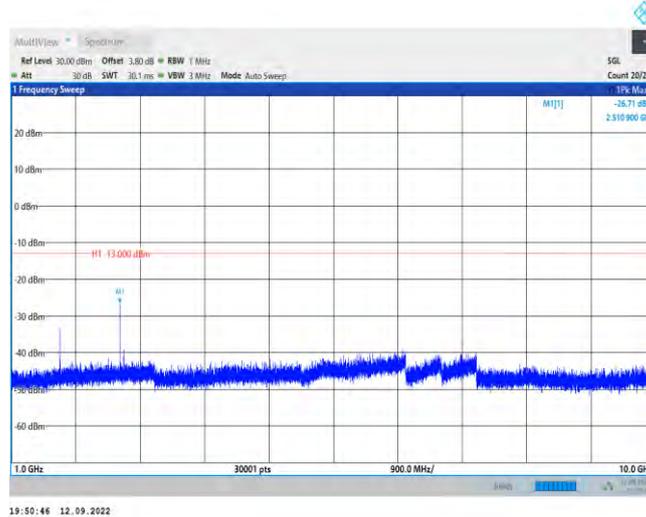
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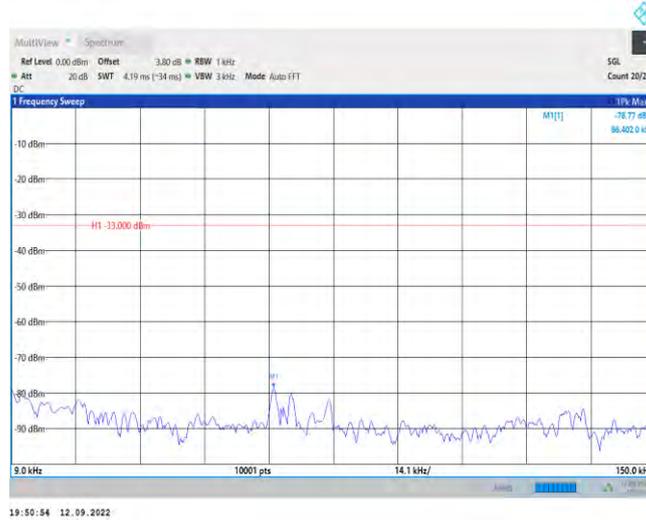
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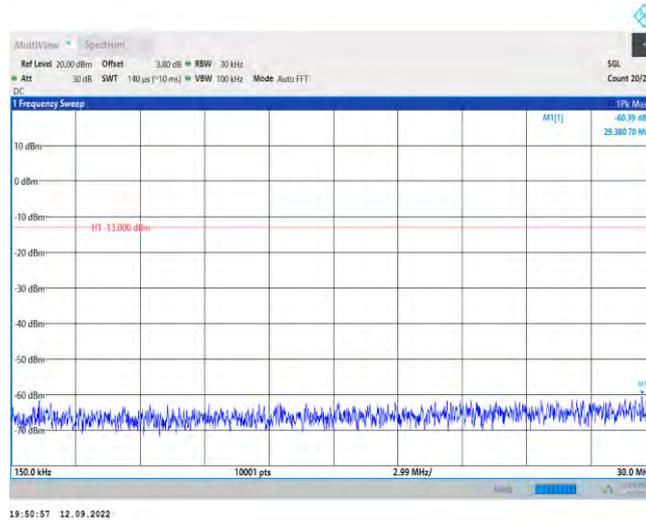
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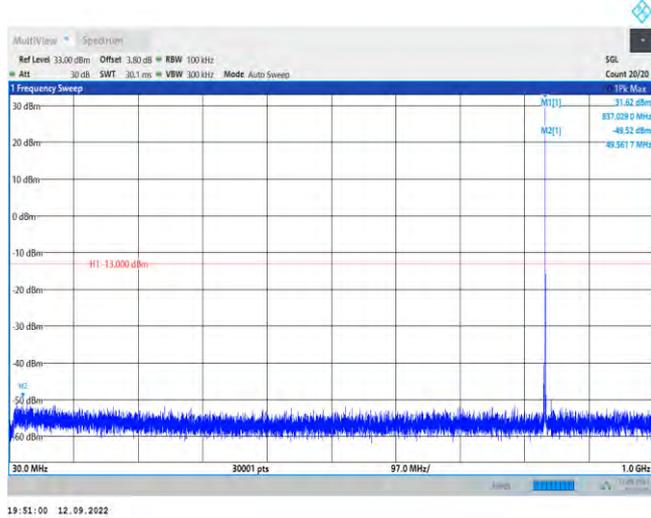


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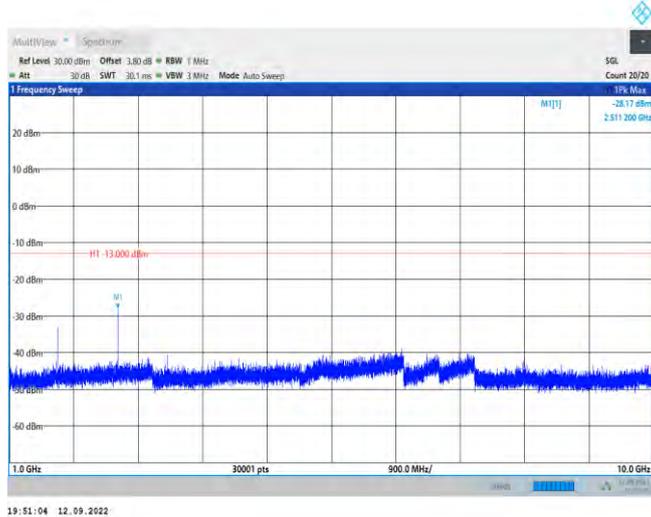
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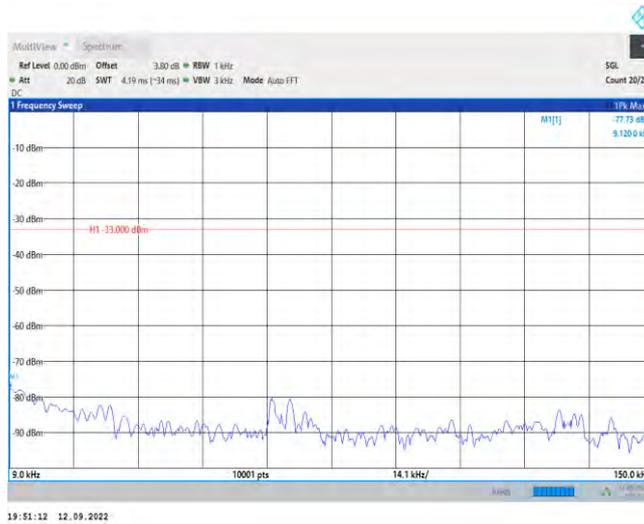


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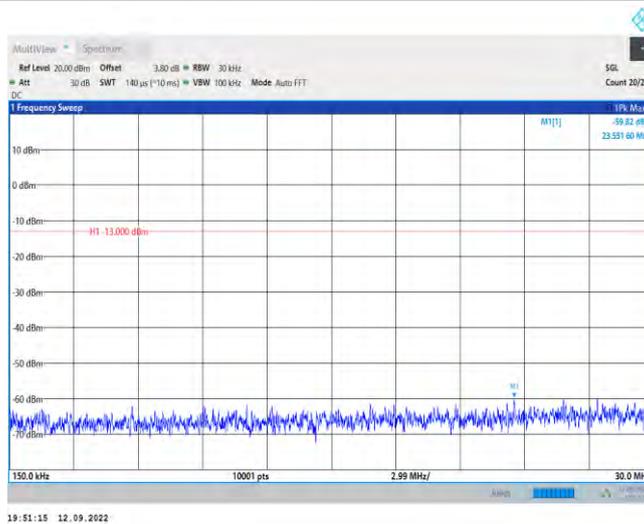
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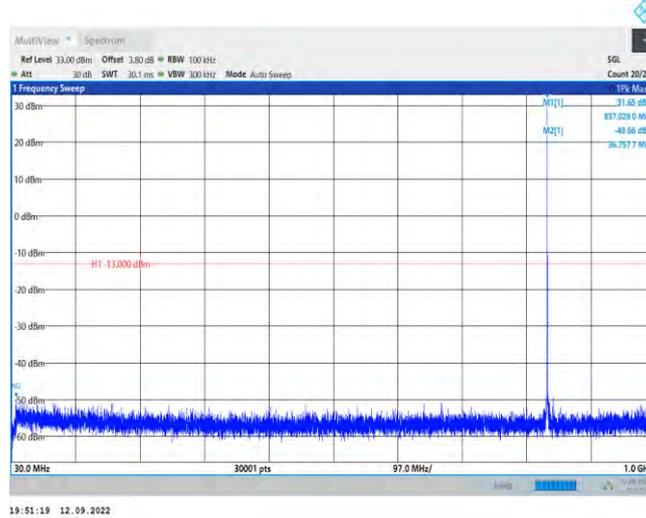


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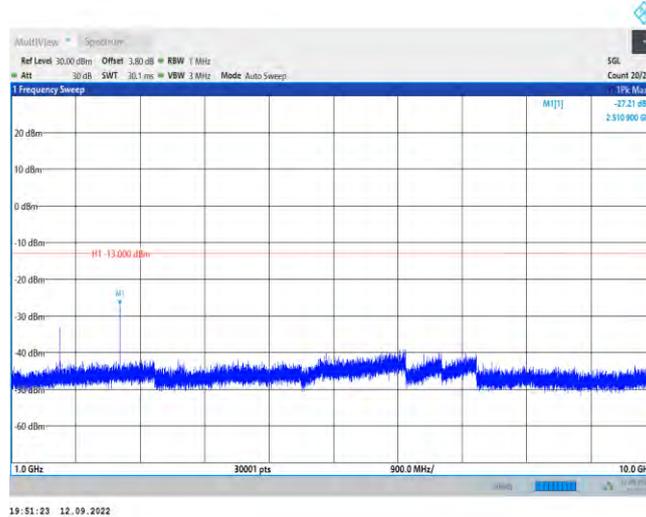
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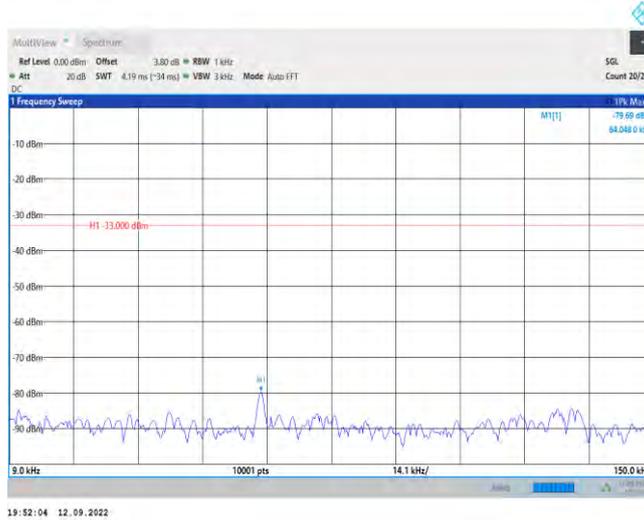
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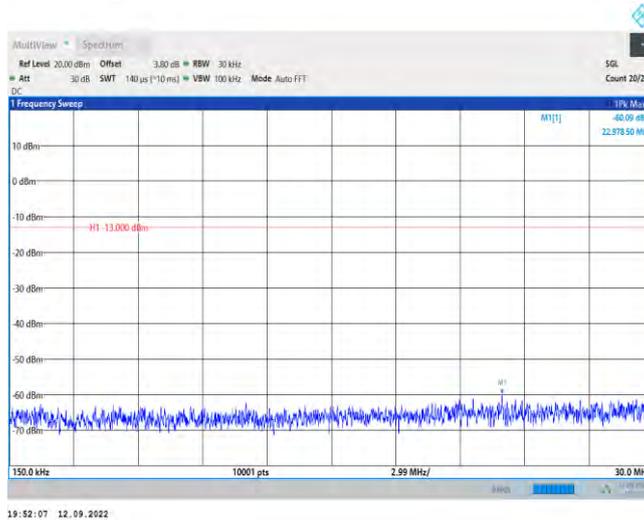
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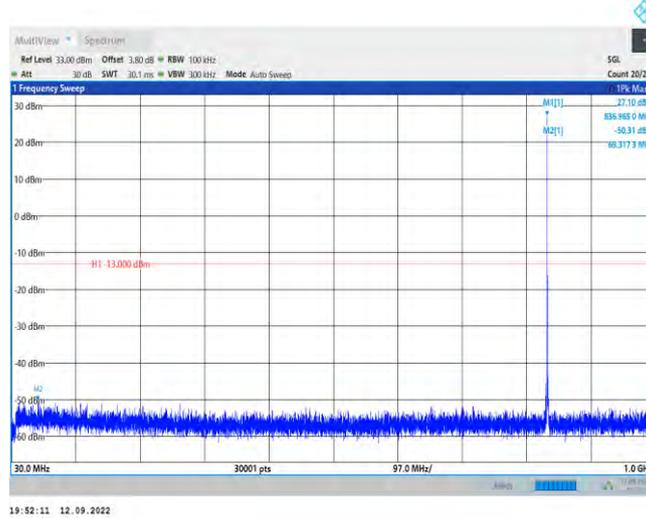
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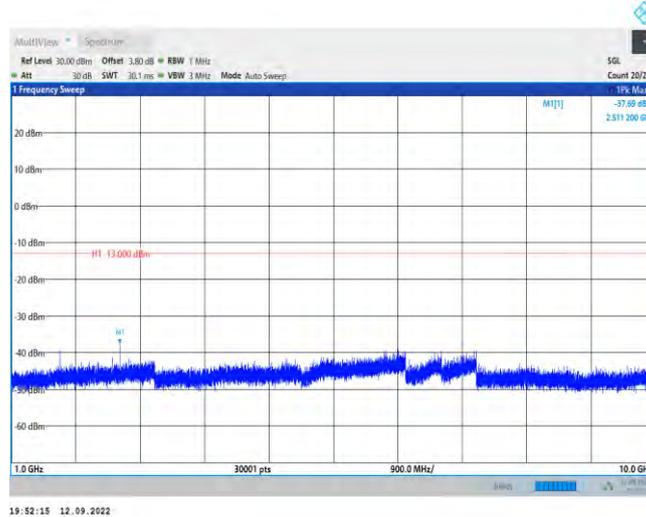
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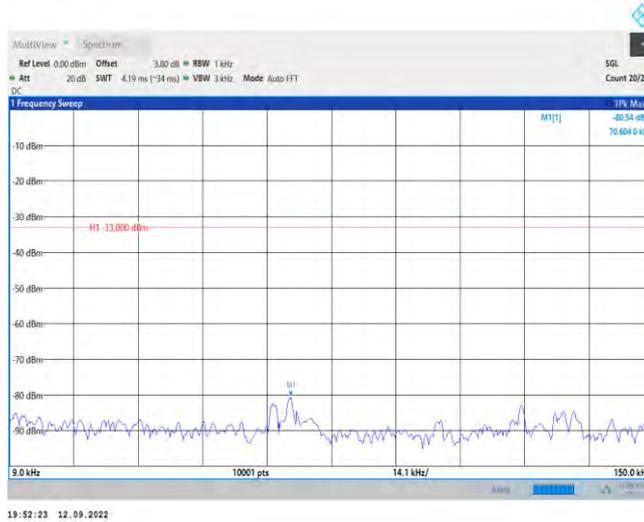


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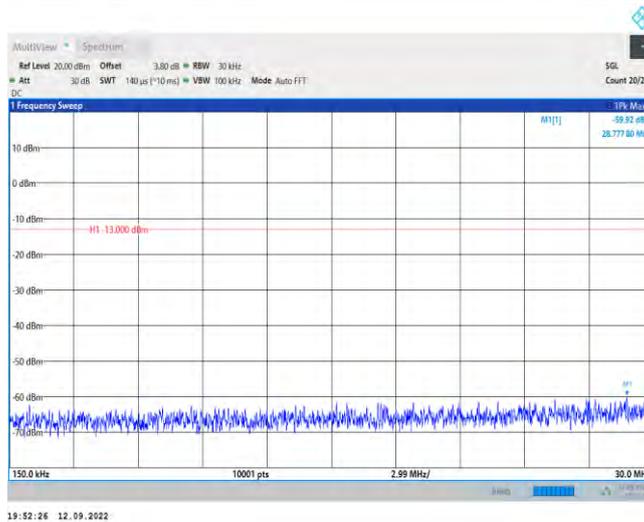
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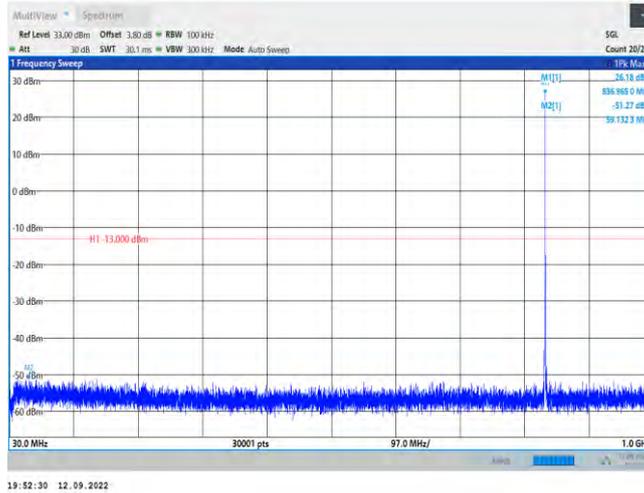
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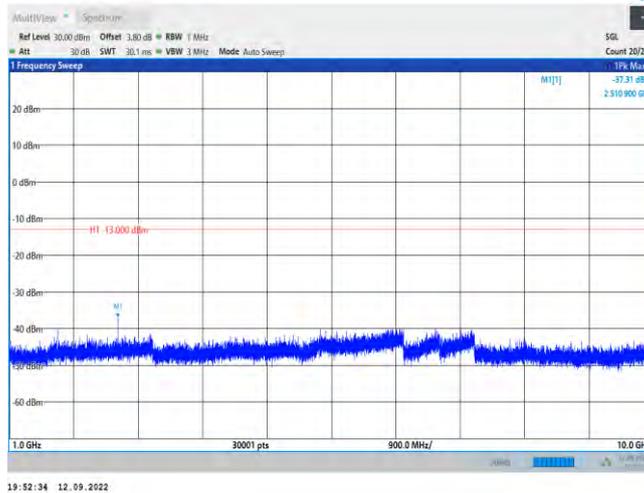
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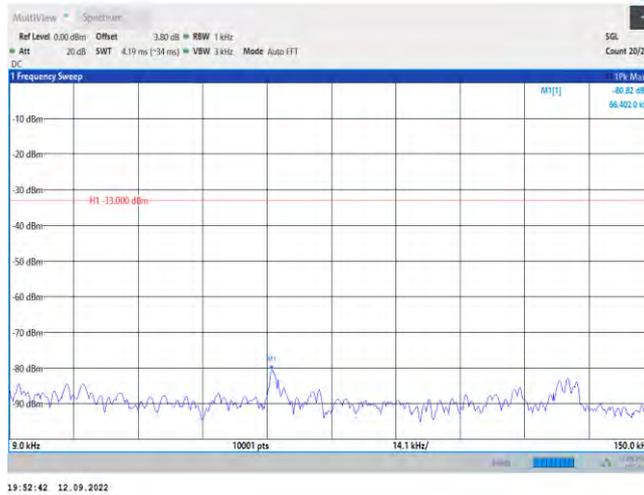


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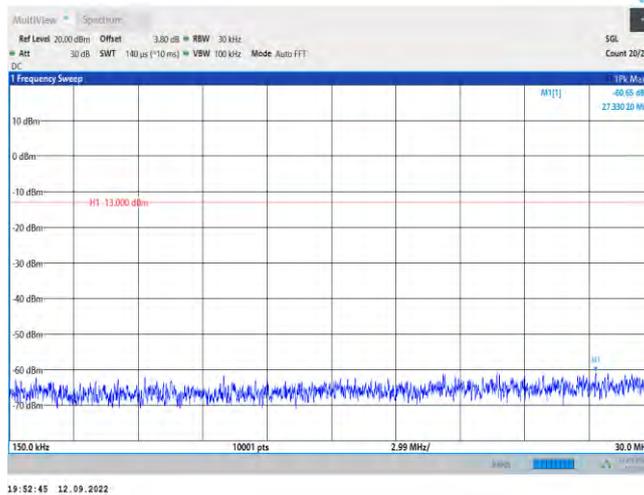
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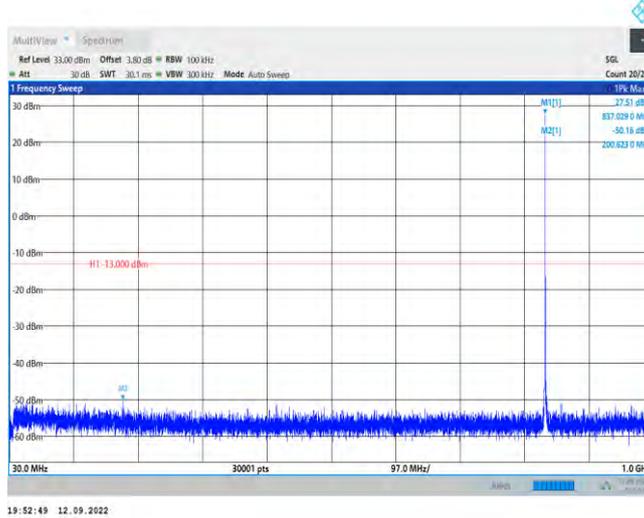


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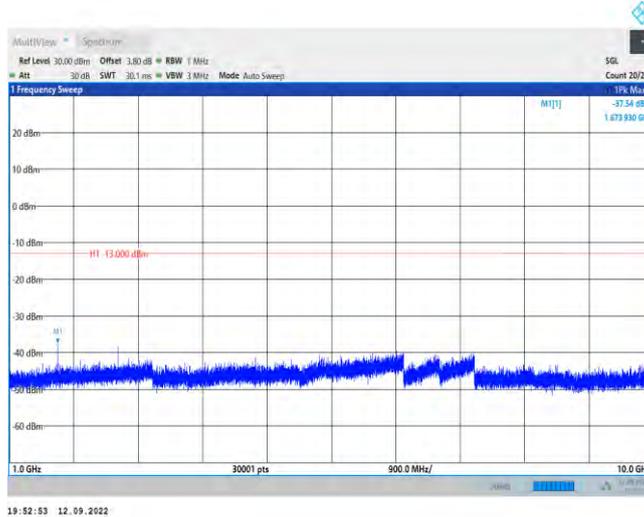
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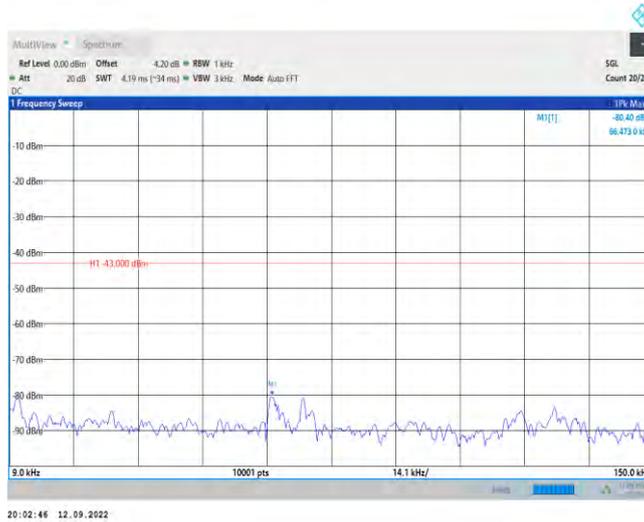


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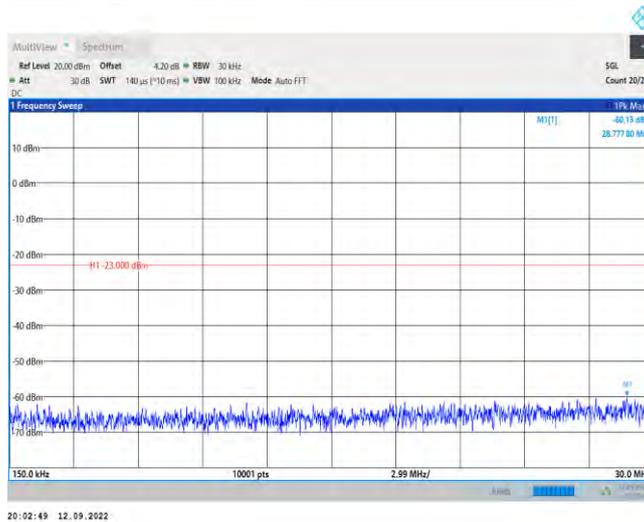
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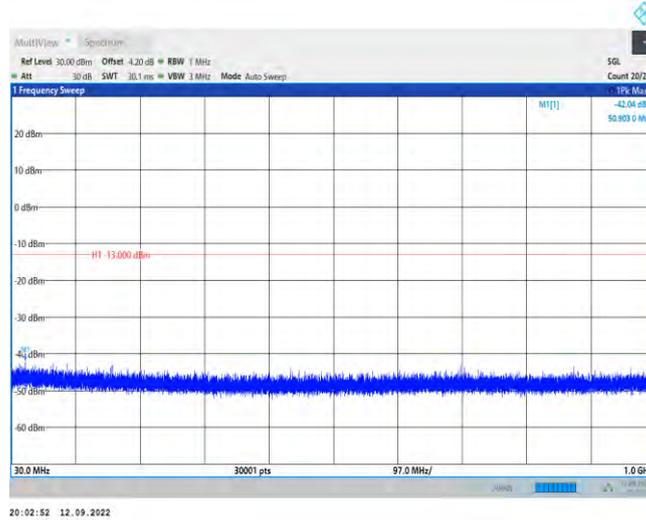
GSM1900-512-0.15~30MHz



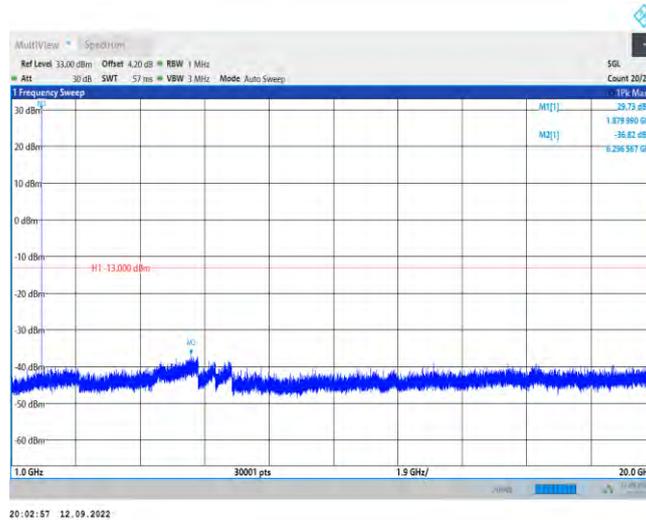
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GSM1900-512-30~1000MHz



GSM1900-512-1000~20000MHz

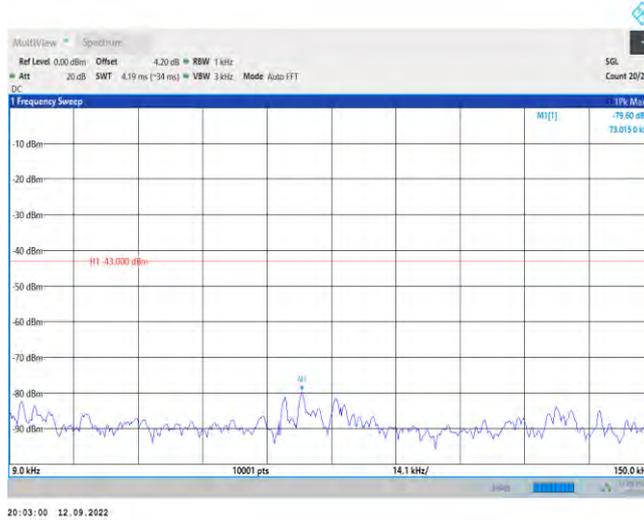


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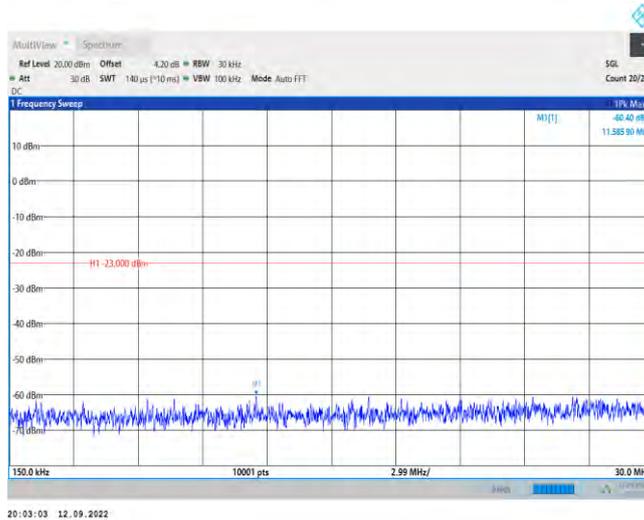
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GSM1900-661-0.009~0.15MHz



GSM1900-661-0.15~30MHz

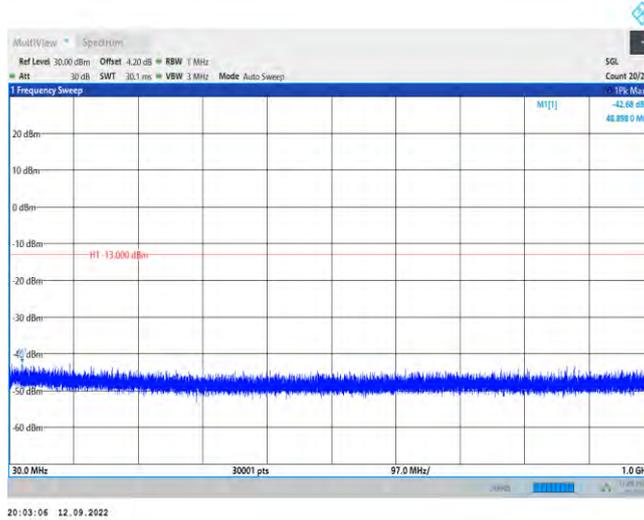


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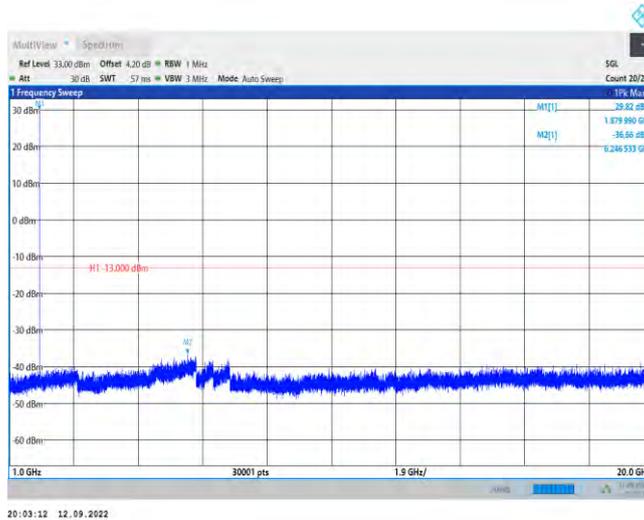
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GSM1900-661-30~1000MHz



GSM1900-661-1000~20000MHz

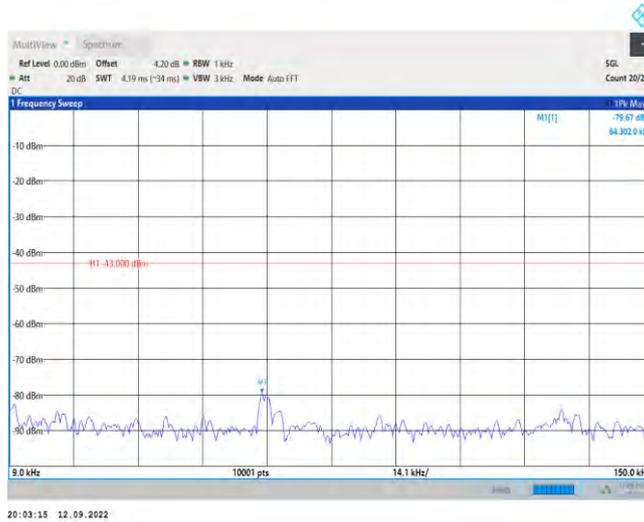


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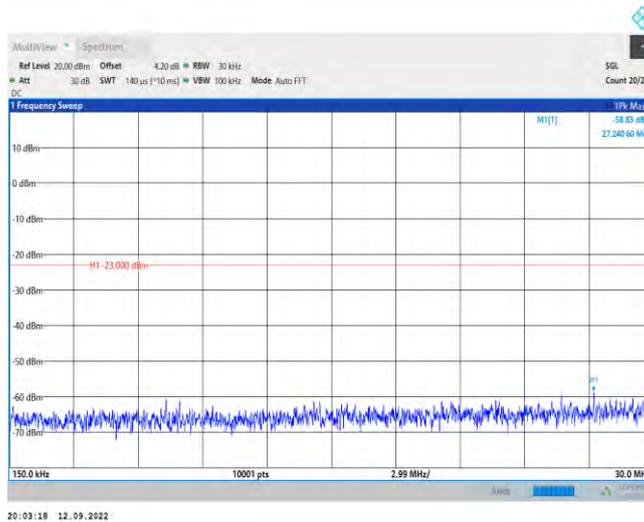
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GSM1900-810-0.009~0.15MHz



GSM1900-810-0.15~30MHz

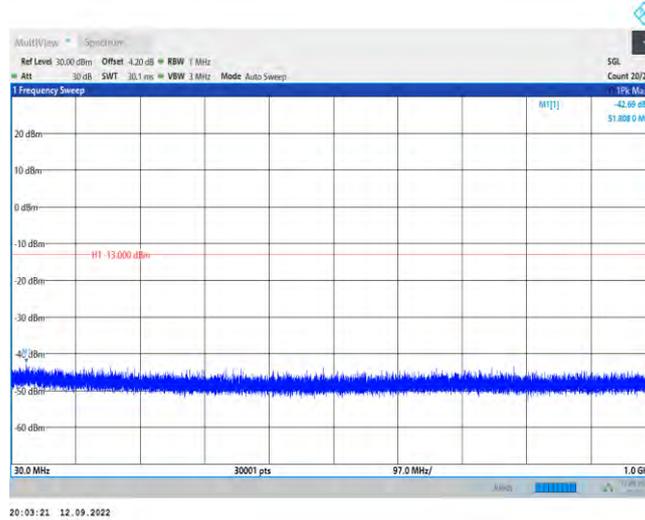


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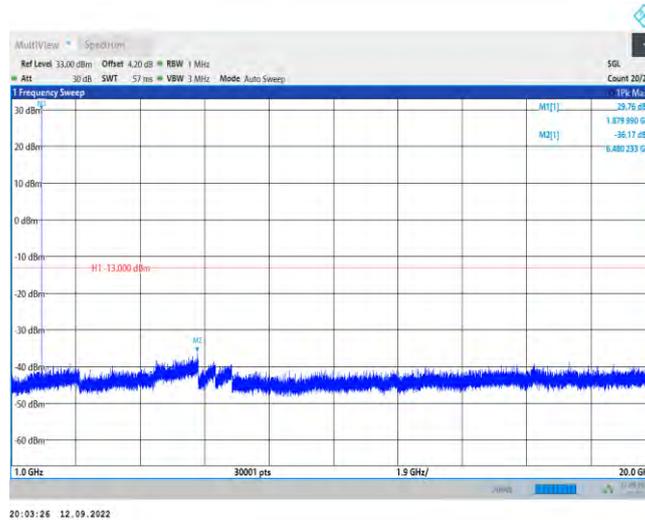
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GSM1900-810-30~1000MHz



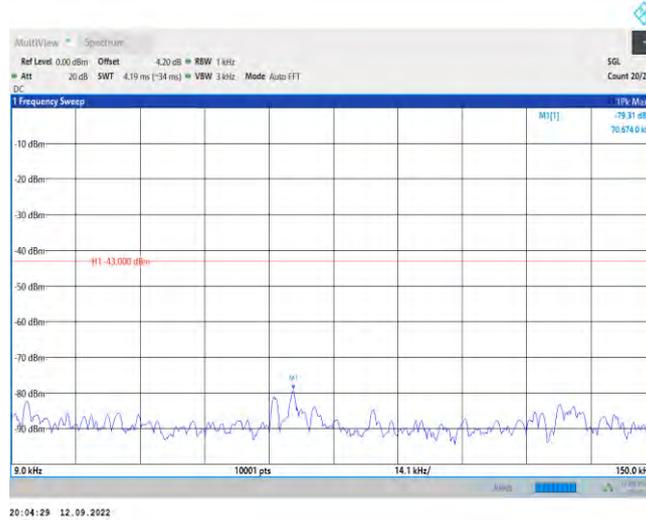
GSM1900-810-1000~20000MHz



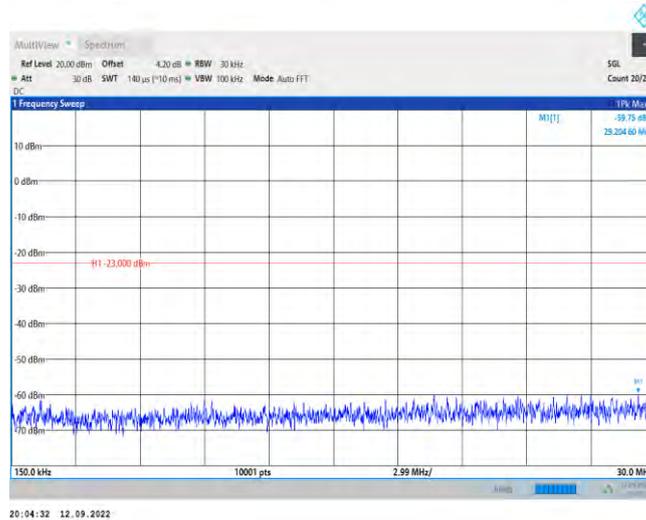
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EGPRS1900-512-0.009~0.15MHz



EGPRS1900-512-0.15~30MHz



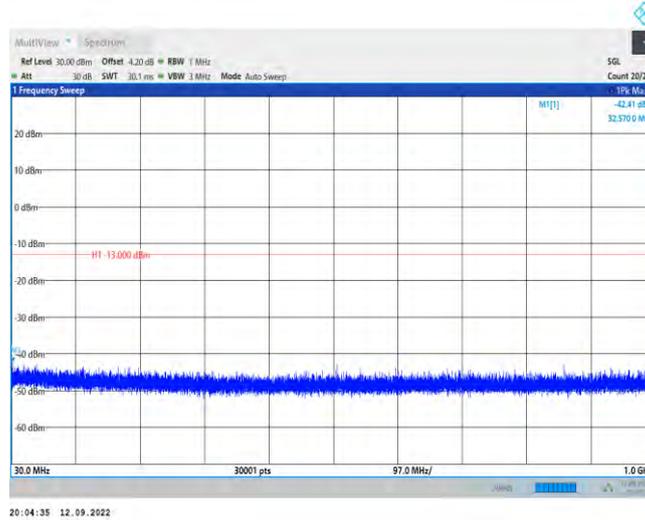
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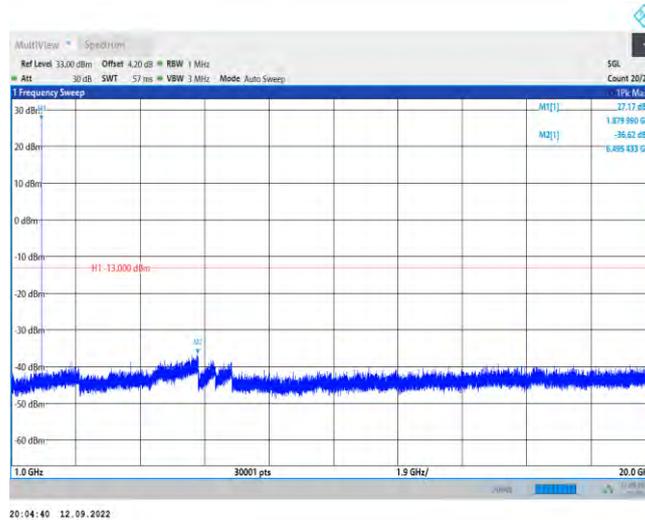
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EGPRS1900-512-30~1000MHz



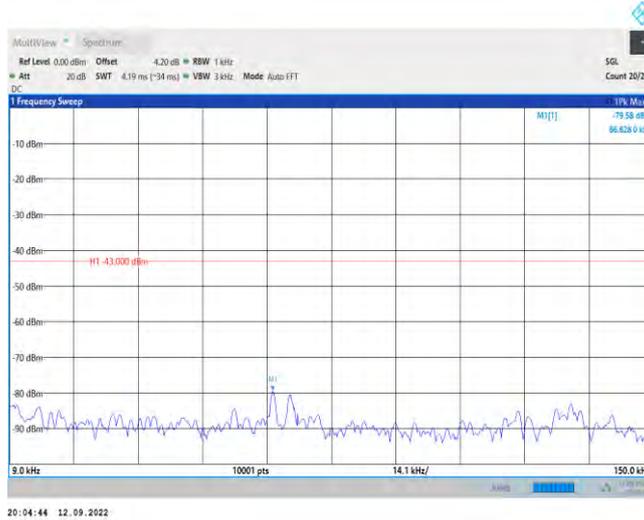
EGPRS1900-512-1000~20000MHz



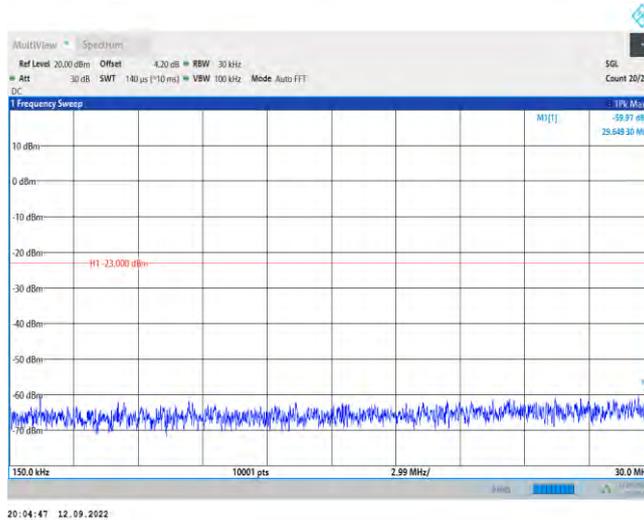
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EGPRS1900-661-0.009~0.15MHz



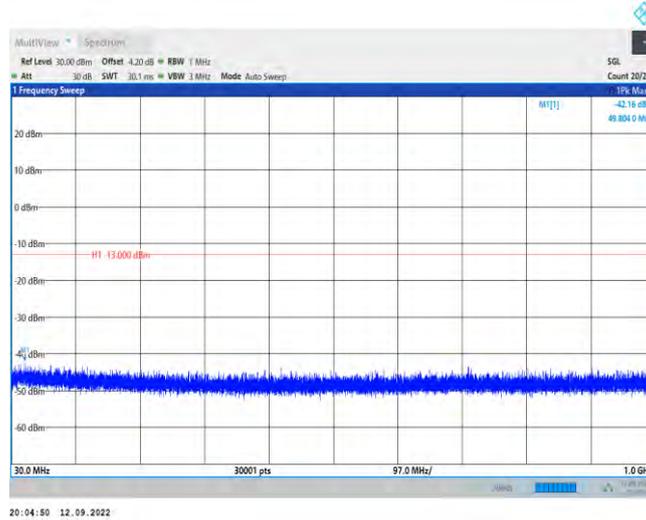
EGPRS1900-661-0.15~30MHz



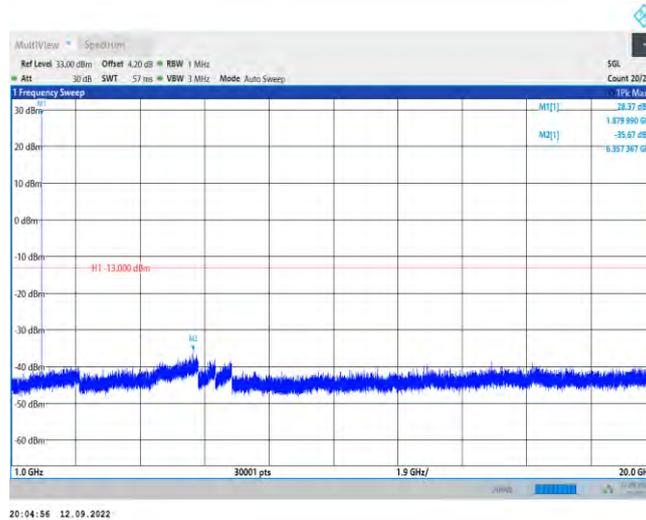
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EGPRS1900-661-1000~20000MHz

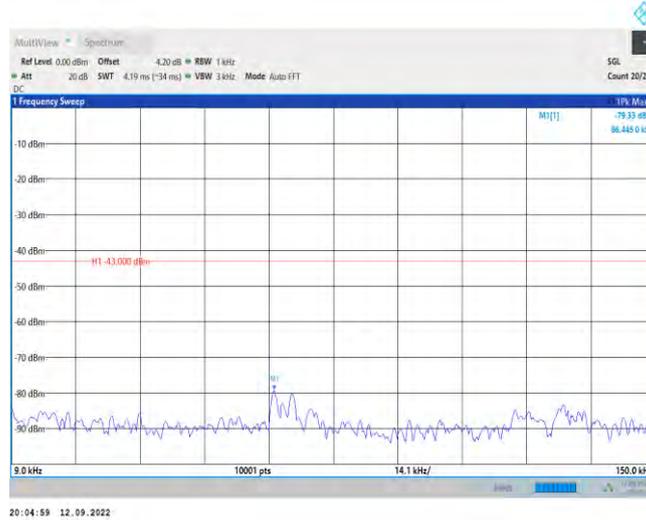


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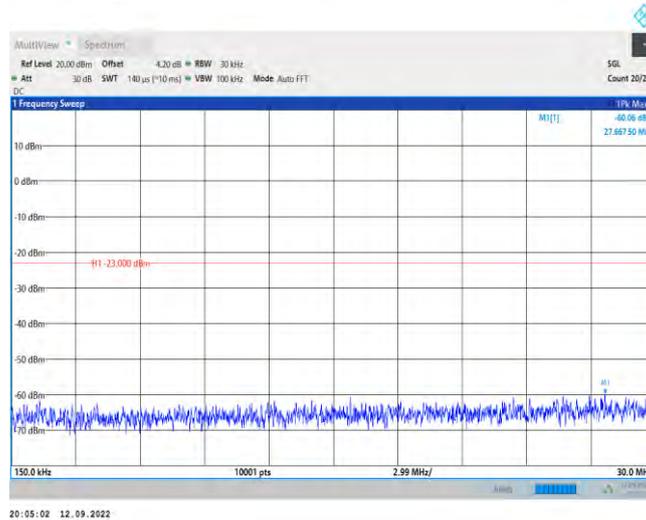
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EGPRS1900-810-0.009~0.15MHz



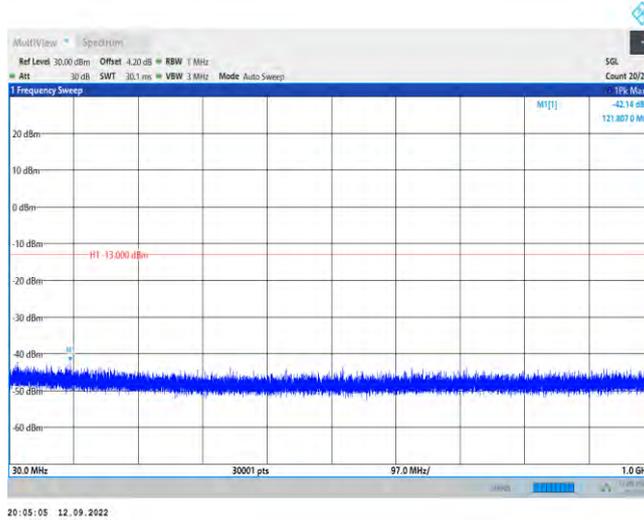
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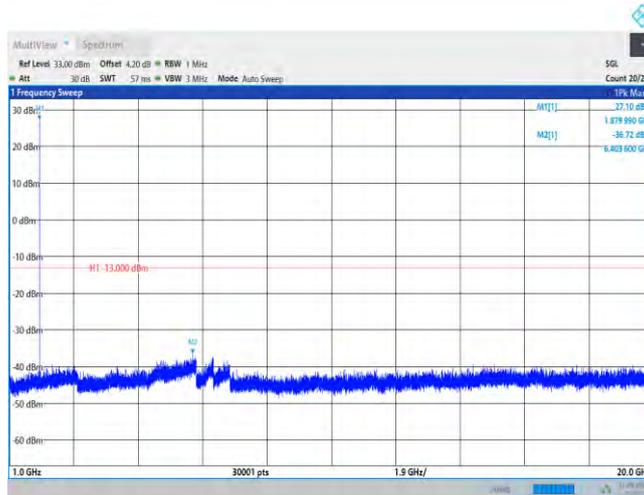
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EGPRS1900-810-30~1000MHz



20:05:05 12.09.2022

EGPRS1900-810-1000~20000MHz



20:05:11 12.09.2022



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Field Strength of Spurious Radiation

Test Band = GSM1900

Test Channel = Low ANT0

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1286	39.61	-24.70	25.60	-54.75	-13.00	41.75	169	4	Horizontal
2	3700.4000	52.38	-45.50	29.97	-58.41	-13.00	45.41	185	6	Horizontal
3	5550.6000	53.36	-45.15	32.97	-54.09	-13.00	41.09	124	117	Horizontal
4	7400.8000	45.66	-43.41	36.49	-56.52	-13.00	43.52	215	1	Horizontal
5	9251.0000	38.95	-40.23	38.38	-58.17	-13.00	45.17	226	86	Horizontal
6	11101.2000	34.60	-37.96	39.09	-59.53	-13.00	46.53	234	209	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1330.6667	39.55	-24.81	25.61	-54.91	-13.00	41.91	231	354	Vertical
2	3700.4000	49.87	-45.50	29.97	-60.92	-13.00	47.92	225	56	Vertical
3	5550.6000	52.55	-45.15	32.97	-54.90	-13.00	41.90	187	1	Vertical
4	7400.8000	45.64	-43.41	36.49	-56.54	-13.00	43.54	196	102	Vertical
5	9251.0000	39.69	-40.23	38.38	-57.43	-13.00	44.43	254	194	Vertical
6	11101.2000	33.01	-37.96	39.09	-61.12	-13.00	48.12	261	42	Vertical



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Test Band = GSM1900

Test Channel = Middle ANT0

Final Data List										
NO	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1314	39.84	-24.71	25.61	-54.52	-13.00	41.52	232	341	Horizo
2	3760.0000	50.40	-45.75	30.19	-60.43	-13.00	47.43	251	103	Horizo
3	5640.0000	55.79	-44.98	33.17	-51.29	-13.00	38.29	226	148	Horizo
4	7520.0000	45.48	-43.10	36.43	-56.45	-13.00	43.45	156	331	Horizo
5	9400.0000	43.16	-39.83	38.49	-53.44	-13.00	40.44	179	255	Horizo
6	11280.0000	34.99	-37.41	39.11	-58.57	-13.00	45.57	167	195	Horizo

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1009.3333	40.04	-24.08	25.3	-53.92	-13.00	40.92	169	87	Vertical
2	3760.0000	53.29	-45.75	30.1	-57.54	-13.00	44.54	158	103	Vertical
3	5640.0000	54.19	-44.98	33.1	-52.89	-13.00	39.89	214	15	Vertical
4	7520.0000	45.26	-43.10	36.4	-56.67	-13.00	43.67	226	178	Vertical
5	9400.0000	43.04	-39.83	38.4	-53.56	-13.00	40.56	237	314	Vertical
6	11280.000	36.03	-37.41	39.1	-57.53	-13.00	44.53	251	58	Vertical



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Test Band = GSM1900

Test Channel = High ANT0

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1232	40.02	-25.03	25.5	-54.67	-13.00	41.67	233	10	Horizonta
2	2774.6667	40.21	-22.63	28.4	-49.25	-13.00	36.25	216	332	Horizonta
3	3819.6000	49.98	-45.99	30.3	-60.89	-13.00	47.89	251	1	Horizonta
4	7639.2000	44.58	-43.01	36.4	-57.22	-13.00	44.22	146	166	Horizonta
5	9549.0000	43.08	-39.96	38.4	-53.68	-13.00	40.68	185	256	Horizonta
6	11458.800	36.09	-37.33	39.0	-57.46	-13.00	44.46	172	256	Horizonta

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1386	39.92	-25.15	25.6	-54.88	-13.00	41.88	144	356	Vertical
2	2905.3333	39.95	-22.93	28.9	-49.31	-13.00	36.31	126	20	Vertical
3	3819.6000	51.02	-45.99	30.3	-59.85	-13.00	46.85	159	164	Vertical
4	7639.2000	43.97	-43.01	36.4	-57.83	-13.00	44.83	241	102	Vertical
5	9549.0000	42.87	-39.96	38.4	-53.89	-13.00	40.89	256	195	Vertical
6	11458.800	35.98	-37.33	39.0	-57.57	-13.00	44.57	271	346	Vertical



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Test Band = GSM1900

Test Channel = Low ANT1

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1294.6667	39.96	-24.65	25.60	-54.35	-13.00	41.35	192	9	Horizontal
2	3700.4000	52.22	-45.50	29.97	-58.57	-13.00	45.57	168	16	Horizontal
3	5550.6000	54.68	-45.15	32.97	-52.77	-13.00	39.77	215	135	Horizontal
4	7400.8000	45.61	-43.41	36.49	-56.57	-13.00	43.57	227	90	Horizontal
5	9251.0000	38.95	-40.23	38.38	-58.17	-13.00	45.17	236	90	Horizontal
6	11101.2000	33.33	-37.96	39.09	-60.80	-13.00	47.80	254	180	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1277.3333	40.61	-24.76	25.60	-53.80	-13.00	40.80	138	75	Vertical
2	3700.4000	52.15	-45.50	29.97	-58.64	-13.00	45.64	152	301	Vertical
3	5550.6000	53.60	-45.15	32.97	-53.85	-13.00	40.85	146	25	Vertical
4	7400.8000	45.86	-43.41	36.49	-56.32	-13.00	43.32	191	163	Vertical
5	9251.0000	40.46	-40.23	38.38	-56.66	-13.00	43.66	247	194	Vertical
6	11101.2000	34.56	-37.96	39.09	-59.57	-13.00	46.57	269	287	Vertical



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Test Band = GSM1900

Test Channel = Middle ANT1

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1268.6667	40.15	-24.81	25.6	-54.32	-13.00	41.32	216	120	Horizonta
2	3760.0000	49.62	-45.75	30.1	-61.21	-13.00	48.21	241	132	Horizonta
3	5640.0000	54.05	-44.98	33.1	-53.03	-13.00	40.03	253	148	Horizonta
4	7520.0000	45.07	-43.10	36.4	-56.86	-13.00	43.86	169	300	Horizonta
5	9400.0000	41.06	-39.83	38.4	-55.54	-13.00	42.54	184	239	Horizonta
6	11280.000	35.94	-37.41	39.1	-57.62	-13.00	44.62	152	255	Horizonta

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1460	39.89	-25.20	25.5	-55.03	-13.00	42.03	169	133	Vertical
2	3760.0000	53.20	-45.75	30.1	-57.63	-13.00	44.63	158	102	Vertical
3	5640.0000	52.88	-44.98	33.1	-54.20	-13.00	41.20	214	330	Vertical
4	7520.0000	44.45	-43.10	36.4	-57.48	-13.00	44.48	223	2	Vertical
5	9400.0000	40.02	-39.83	38.4	-56.58	-13.00	43.58	256	299	Vertical
6	11280.000	35.53	-37.41	39.1	-58.03	-13.00	45.03	159	116	Vertical



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Test Band = GSM1900

Test Channel = High ANT1

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1275.3333	39.54	-24.77	25.6	-54.89	-13.00	41.89	163	330	Horizonta
2	2678	41.05	-22.85	28.2	-48.81	-13.00	35.81	159	149	Horizonta
3	3819.6000	50.35	-45.99	30.3	-60.52	-13.00	47.52	184	240	Horizonta
4	7639.2000	44.88	-43.01	36.4	-56.92	-13.00	43.92	127	315	Horizonta
5	9549.0000	42.32	-39.96	38.4	-54.44	-13.00	41.44	226	240	Horizonta
6	11458.800	34.64	-37.33	39.0	-58.91	-13.00	45.91	241	286	Horizonta

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1386.6667	39.82	-25.16	25.6	-54.98	-13.00	41.98	149	347	Vertical
2	2624	40.82	-22.83	28.1	-49.13	-13.00	36.13	221	301	Vertical
3	3819.6000	51.67	-45.99	30.3	-59.20	-13.00	46.20	265	104	Vertical
4	7639.2000	45.74	-43.01	36.4	-56.06	-13.00	43.06	238	0	Vertical
5	9549.0000	42.14	-39.96	38.4	-54.62	-13.00	41.62	153	209	Vertical
6	11458.800	35.97	-37.33	39.0	-57.58	-13.00	44.58	149	346	Vertical



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Test Band = GSM850

Test Channel = Low ANT0

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4000	55.59	-48.22	25.37	-62.52	-13.00	49.52	172	294	Horizontal
2	2472.6000	55.06	-47.32	27.68	-59.84	-13.00	46.84	159	66	Horizontal
3	3296.8000	49.62	-46.67	29.56	-62.75	-13.00	49.75	164	38	Horizontal
4	4121.0000	49.84	-45.91	30.98	-60.35	-13.00	47.35	154	186	Horizontal
5	4945.2000	49.20	-45.69	32.73	-59.02	-13.00	46.02	128	186	Horizontal
6	7073.7143	49.01	-44.05	36.27	-54.03	-13.00	41.03	216	294	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4000	51.00	-48.22	25.37	-67.11	-13.00	54.11	119	0	Vertical
2	2472.6000	51.91	-47.32	27.68	-62.99	-13.00	49.99	142	6	Vertical
3	3296.8000	51.03	-46.67	29.56	-61.34	-13.00	48.34	156	239	Vertical
4	4121.0000	49.88	-45.91	30.98	-60.31	-13.00	47.31	217	347	Vertical
5	4945.2000	48.52	-45.69	32.73	-59.70	-13.00	46.70	228	266	Vertical
6	7034.2857	49.49	-43.79	36.17	-53.39	-13.00	40.39	236	306	Vertical



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Test Band = GSM850

Test Channel = Middle ANT0

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4000	50.85	-48.22	25.37	-67.26	-13.00	54.26	179	359	Horizontal
2	2472.6000	50.29	-47.32	27.68	-64.61	-13.00	51.61	258	308	Horizontal
3	3296.8000	50.64	-46.67	29.56	-61.73	-13.00	48.73	264	360	Horizontal
4	4121.0000	48.80	-45.91	30.98	-61.39	-13.00	48.39	157	148	Horizontal
5	4945.2000	49.01	-45.69	32.73	-59.21	-13.00	46.21	143	253	Horizontal
6	8422.8571	46.01	-41.68	37.38	-53.56	-13.00	40.56	212	121	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4000	50.66	-48.22	25.37	-67.45	-13.00	54.45	154	0	Vertical
2	2472.6000	51.55	-47.32	27.68	-63.35	-13.00	50.35	126	293	Vertical
3	3296.8000	50.46	-46.67	29.56	-61.91	-13.00	48.91	133	267	Vertical
4	4121.0000	48.85	-45.91	30.98	-61.34	-13.00	48.34	187	0	Vertical
5	4945.2000	49.56	-45.69	32.73	-58.66	-13.00	45.66	216	347	Vertical
6	7623.4286	48.80	-43.03	36.44	-53.05	-13.00	40.05	291	134	Vertical



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Test Band = GSM850

Test Channel = High ANT0

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4000	51.84	-48.22	25.37	-66.27	-13.00	53.27	221	360	Horizontal
2	2472.6000	50.85	-47.32	27.68	-64.05	-13.00	51.05	216	93	Horizontal
3	3296.8000	50.75	-46.67	29.56	-61.62	-13.00	48.62	138	282	Horizontal
4	4121.0000	49.89	-45.91	30.98	-60.30	-13.00	47.30	146	173	Horizontal
5	4945.2000	48.75	-45.69	32.73	-59.47	-13.00	46.47	179	40	Horizontal
6	6983.4286	49.04	-43.67	36.06	-53.83	-13.00	40.83	217	323	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4000	51.61	-48.22	25.37	-66.50	-13.00	53.50	156	200	Vertical
2	2472.6000	50.59	-47.32	27.68	-64.31	-13.00	51.31	171	0	Vertical
3	3296.8000	50.74	-46.67	29.56	-61.63	-13.00	48.63	125	24	Vertical
4	4121.0000	49.15	-45.91	30.98	-61.04	-13.00	48.04	219	3	Vertical
5	4945.2000	49.04	-45.69	32.73	-59.18	-13.00	46.18	228	267	Vertical
6	6789.1429	49.83	-44.11	35.82	-53.73	-13.00	40.73	217	93	Vertical



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Test Band = GSM850

Test Channel = Low ANT1

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4000	60.16	-48.22	25.37	-57.95	-13.00	44.95	134	213	Horizontal
2	2472.6000	53.39	-47.32	27.68	-61.51	-13.00	48.51	126	38	Horizontal
3	3296.8000	50.88	-46.67	29.56	-61.49	-13.00	48.49	158	294	Horizontal
4	4121.0000	48.39	-45.91	30.98	-61.80	-13.00	48.80	179	12	Horizontal
5	4945.2000	48.28	-45.69	32.73	-59.94	-13.00	46.94	216	358	Horizontal
6	7875.4286	47.29	-42.74	36.87	-53.84	-13.00	40.84	225	3	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4000	51.88	-48.22	25.37	-66.23	-13.00	53.23	232	335	Vertical
2	2472.6000	51.33	-47.32	27.68	-63.57	-13.00	50.57	163	15	Vertical
3	3296.8000	51.77	-46.67	29.56	-60.60	-13.00	47.60	152	159	Vertical
4	4121.0000	47.81	-45.91	30.98	-62.38	-13.00	49.38	149	0	Vertical
5	4945.2000	49.42	-45.69	32.73	-58.80	-13.00	45.80	218	321	Vertical
6	6969.1429	49.24	-43.76	36.04	-53.73	-13.00	40.73	227	0	Vertical



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Test Band = GSM850

Test Channel = Middle ANT1

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4000	50.55	-48.22	25.37	-67.56	-13.00	54.56	157	4	Horizontal
2	2472.6000	51.45	-47.32	27.68	-63.45	-13.00	50.45	162	200	Horizontal
3	3296.8000	51.31	-46.67	29.56	-61.06	-13.00	48.06	146	25	Horizontal
4	4121.0000	48.59	-45.91	30.98	-61.60	-13.00	48.60	251	25	Horizontal
5	4945.2000	47.92	-45.69	32.73	-60.30	-13.00	47.30	229	307	Horizontal
6	8431.4286	46.07	-41.69	37.40	-53.48	-13.00	40.48	235	266	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4000	51.43	-48.22	25.37	-66.68	-13.00	53.68	169	120	Vertical
2	2472.6000	51.26	-47.32	27.68	-63.64	-13.00	50.64	158	0	Vertical
3	3296.8000	51.49	-46.67	29.56	-60.88	-13.00	47.88	214	25	Vertical
4	4121.0000	48.72	-45.91	30.98	-61.47	-13.00	48.47	228	187	Vertical
5	4945.2000	48.18	-45.69	32.73	-60.04	-13.00	47.04	267	227	Vertical
6	7232.5714	48.55	-43.74	36.58	-53.87	-13.00	40.87	251	16	Vertical



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Test Band = GSM850

Test Channel = High ANT1

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4000	50.93	-48.22	25.37	-67.18	-13.00	54.18	214	118	Horizontal
2	2472.6000	49.22	-47.32	27.68	-65.68	-13.00	52.68	263	198	Horizontal
3	3296.8000	50.55	-46.67	29.56	-61.82	-13.00	48.82	225	159	Horizontal
4	4121.0000	48.31	-45.91	30.98	-61.88	-13.00	48.88	271	3	Horizontal
5	4945.2000	47.94	-45.69	32.73	-60.28	-13.00	47.28	259	279	Horizontal
6	6764	50.33	-44.10	35.77	-53.26	-13.00	40.26	283	212	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4000	50.92	-48.22	25.37	-67.19	-13.00	54.19	156	213	Vertical
2	2472.6000	50.88	-47.32	27.68	-64.02	-13.00	51.02	215	6	Vertical
3	3296.8000	49.94	-46.67	29.56	-62.43	-13.00	49.43	118	281	Vertical
4	4121.0000	49.16	-45.91	30.98	-61.03	-13.00	48.03	196	37	Vertical
5	4945.2000	49.17	-45.69	32.73	-59.05	-13.00	46.05	264	356	Vertical
6	7391.4286	48.24	-43.28	36.49	-53.80	-13.00	40.80	173	37	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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