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Appendix B.1

GSM850&1900



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT1

Band	Channel	Power(dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	33.45	27.60	38.45	PASS
GSM850	190	33.47	27.62	38.45	PASS
GSM850	251	33.30	27.45	38.45	PASS

ANT4

Band	Channel	Power(dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	30.09	29.09	33.00	PASS
GSM1900	661	30.01	29.01	33.00	PASS
GSM1900	810	29.96	28.96	33.00	PASS



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ANT1

Band	Channel	Slot	Power(dBm)	ERP (dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	27.79	21.94	38.45	PASS
EGPRS850	128	2	24.92	19.07	38.45	PASS
EGPRS850	128	3	23.32	17.47	38.45	PASS
EGPRS850	128	4	22.38	16.53	38.45	PASS
EGPRS850	190	1	27.90	22.05	38.45	PASS
EGPRS850	190	2	25.17	19.32	38.45	PASS
EGPRS850	190	3	23.44	17.59	38.45	PASS
EGPRS850	190	4	22.58	16.73	38.45	PASS
EGPRS850	251	1	27.64	21.79	38.45	PASS
EGPRS850	251	2	25.01	19.16	38.45	PASS
EGPRS850	251	3	23.19	17.34	38.45	PASS
EGPRS850	251	4	22.34	16.49	38.45	PASS

ANT4

Band	Channel	Slot	Power(dBm)	EIRP (dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	26.99	25.99	33.00	PASS
EGPRS1900	512	2	24.10	23.10	33.00	PASS
EGPRS1900	512	3	21.89	20.89	33.00	PASS
EGPRS1900	512	4	20.53	19.53	33.00	PASS
EGPRS1900	661	1	26.49	25.49	33.00	PASS
EGPRS1900	661	2	23.75	22.75	33.00	PASS
EGPRS1900	661	3	21.55	20.55	33.00	PASS
EGPRS1900	661	4	20.19	19.19	33.00	PASS
EGPRS1900	810	1	26.42	25.42	33.00	PASS
EGPRS1900	810	2	23.71	22.71	33.00	PASS
EGPRS1900	810	3	21.44	20.44	33.00	PASS
EGPRS1900	810	4	20.05	19.05	33.00	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	6.88	13	PASS
GSM850	190	6.78	13	PASS
GSM850	251	6.78	13	PASS
EGPRS850	128	12.7	13	PASS
EGPRS850	190	12.68	13	PASS
EGPRS850	251	12.6	13	PASS
GSM1900	512	9.52	13	PASS
GSM1900	661	9.52	13	PASS
GSM1900	810	9.52	13	PASS
EGPRS1900	512	12.72	13	PASS
EGPRS1900	661	12.76	13	PASS
EGPRS1900	810	12.62	13	PASS



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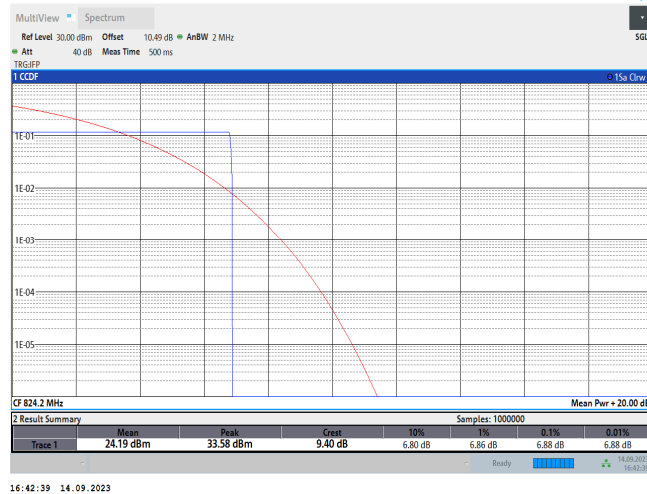
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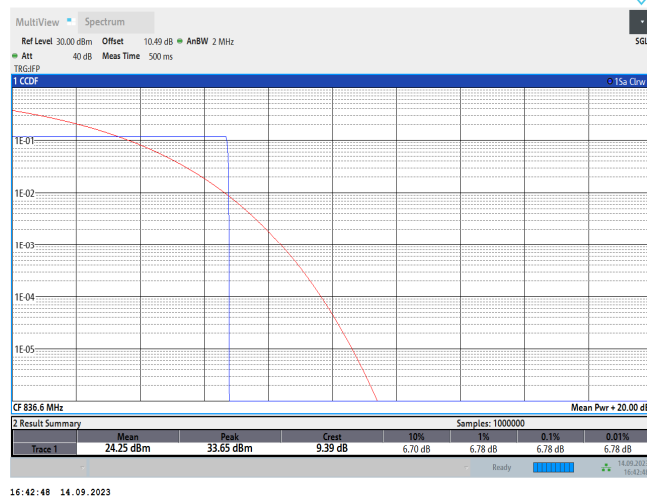
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Test Graphs

GSM850-128



GSM850-190



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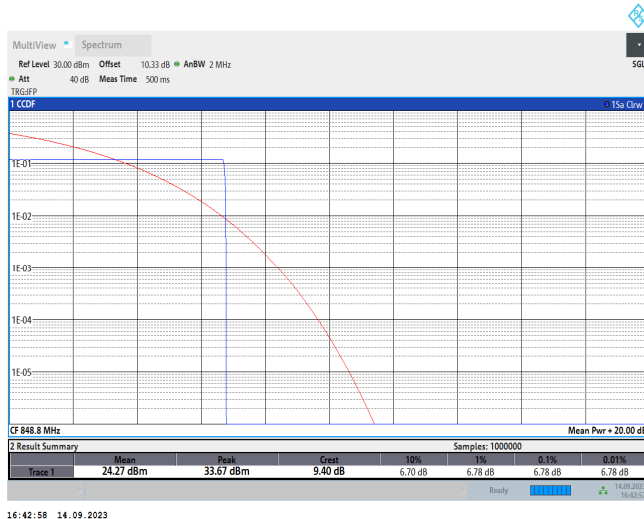
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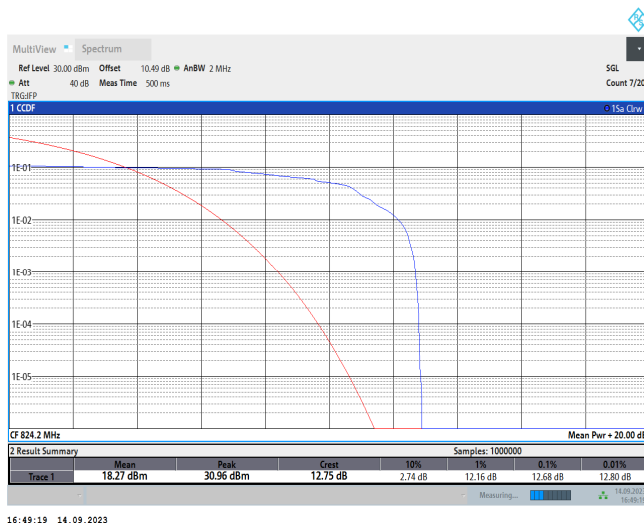
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EGPRS850-128



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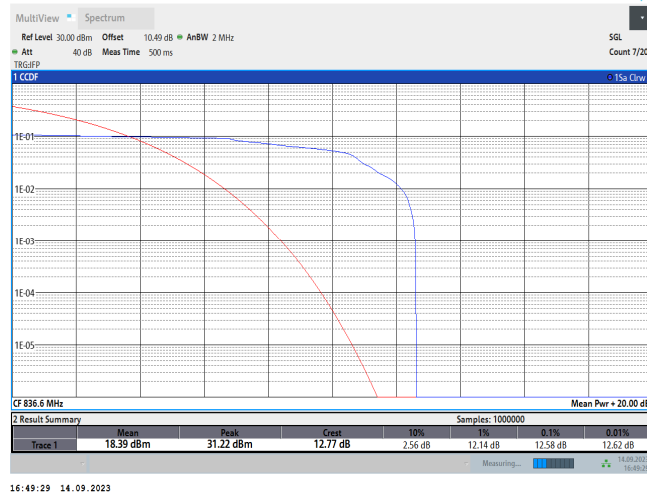
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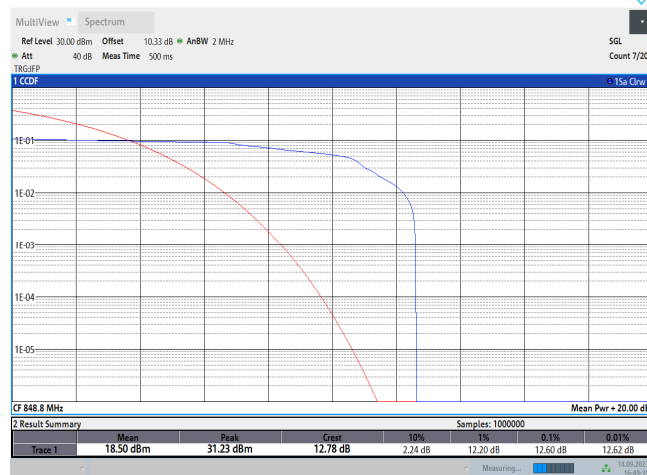
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16:49:39 14.09.2023



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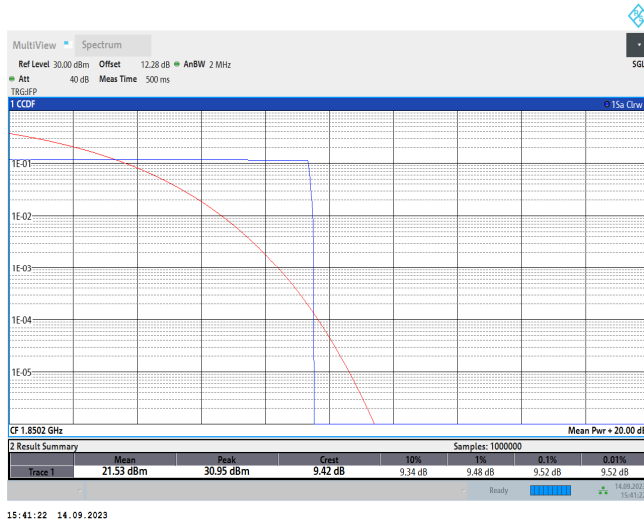
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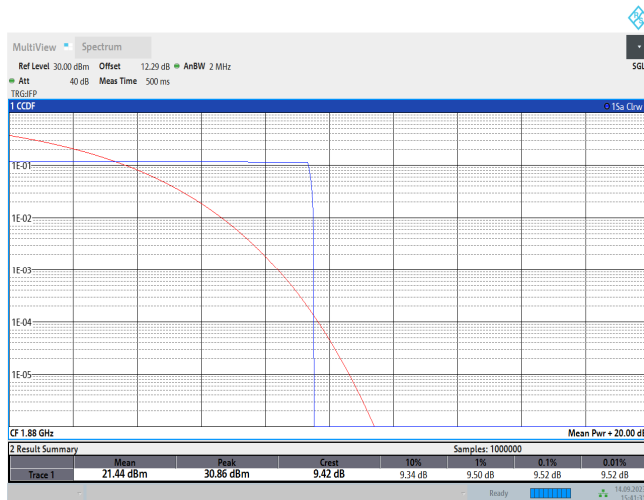
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GSM1900-661



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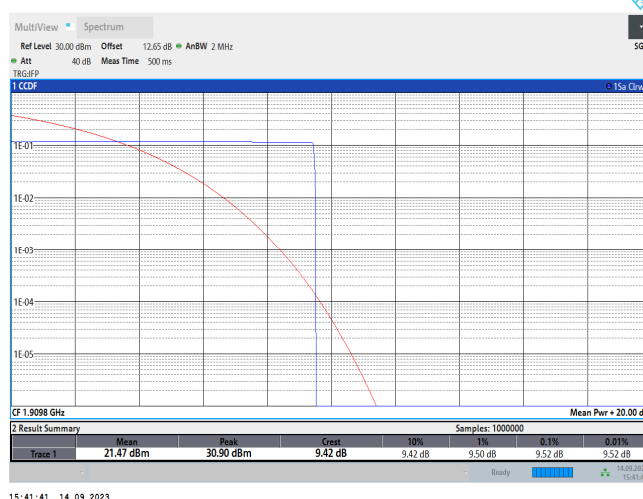
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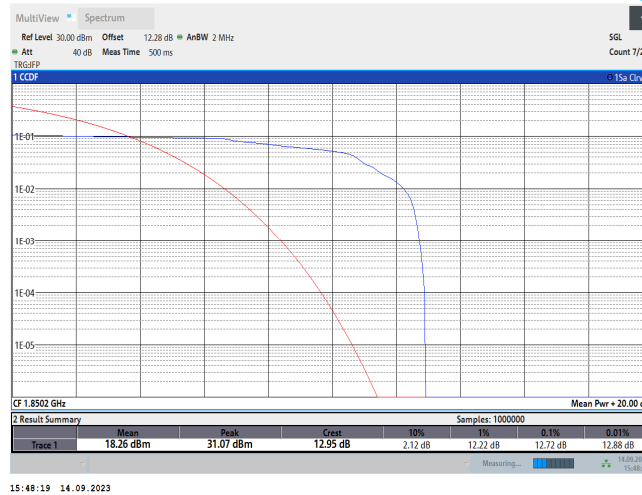
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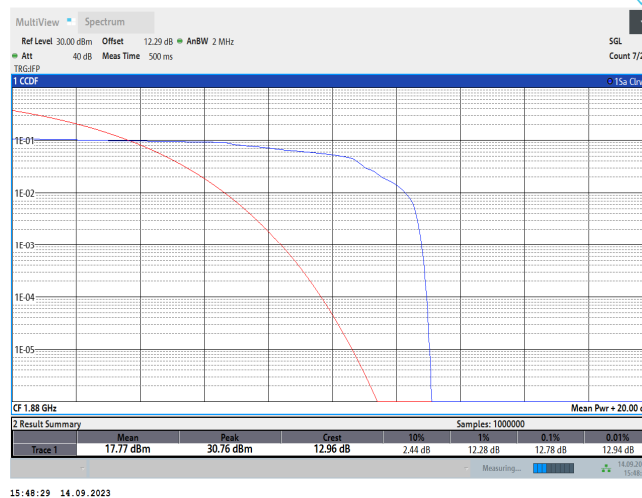
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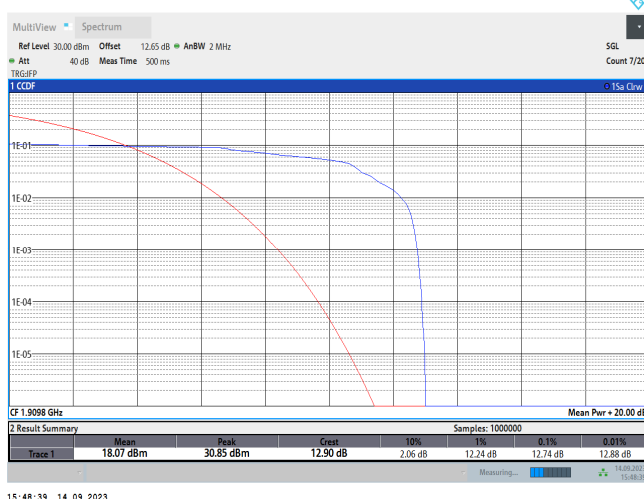
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26dB Bandwidth and Occupied Bandwidth

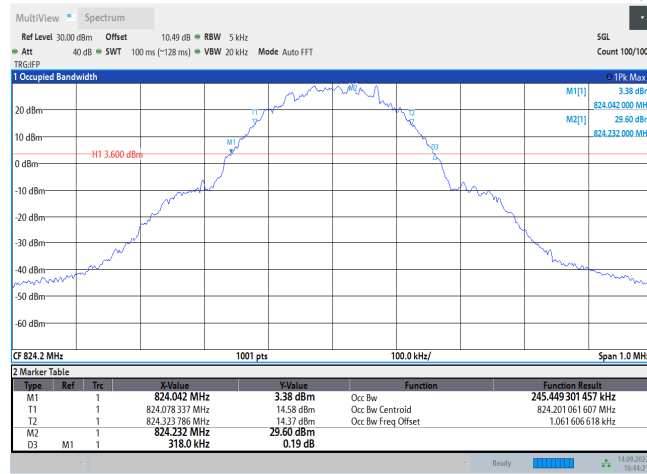
Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.245	0.32	---	PASS
GSM850	190	0.249	0.32	---	PASS
GSM850	251	0.248	0.32	---	PASS
EGPRS850	128	0.252	0.32	---	PASS
EGPRS850	190	0.25	0.32	---	PASS
EGPRS850	251	0.249	0.31	---	PASS
GSM1900	512	0.248	0.32	---	PASS
GSM1900	661	0.245	0.31	---	PASS
GSM1900	810	0.247	0.32	---	PASS
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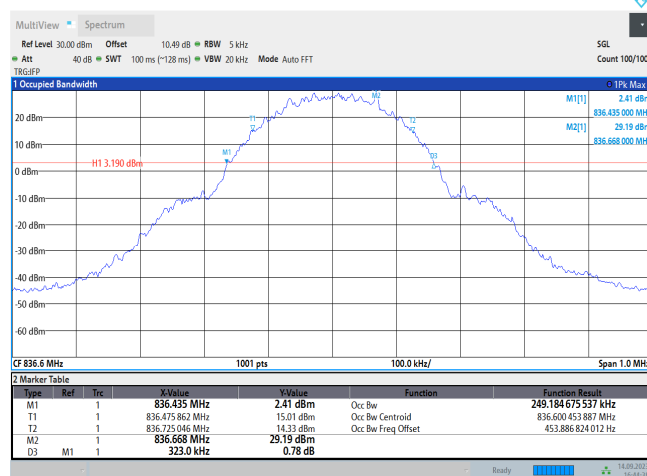
Test Graphs

GSM850-128



16:44:22 14. 09. 2023

GSM850-190



16:44:39 14. 09. 2023



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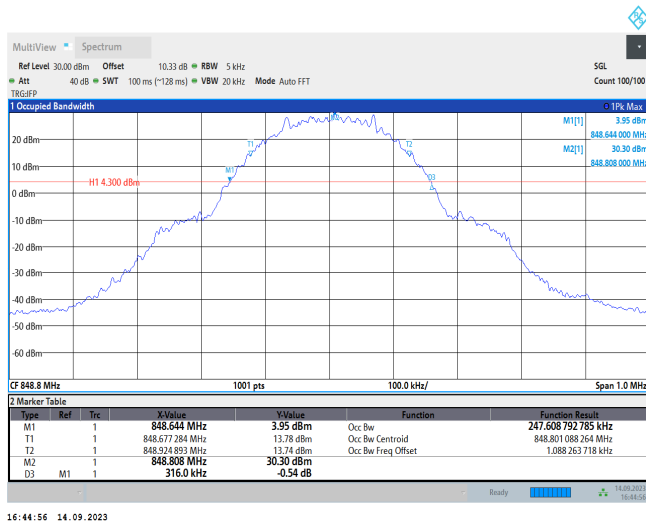
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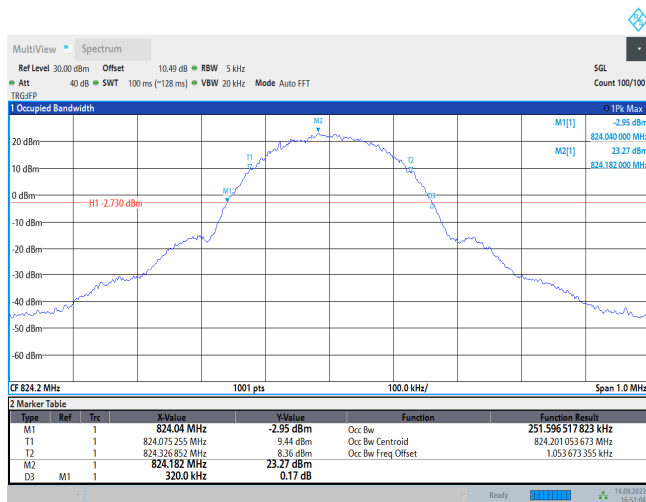
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GSM850-251



16:44:56 14.09.2023

EGPRS850-128



16:51:06 14.09.2023

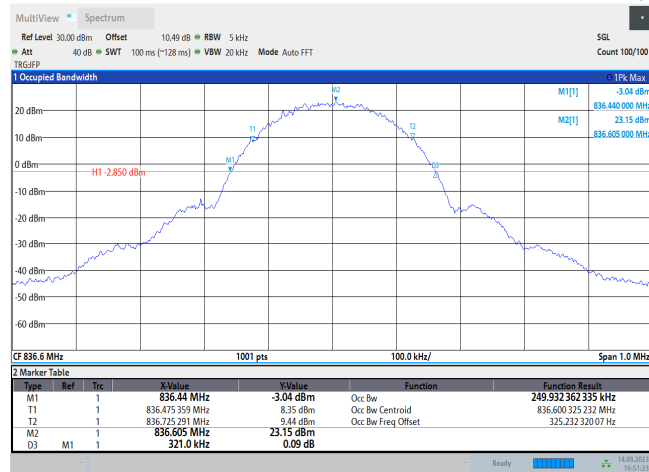


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16:51:24 14.09.2023



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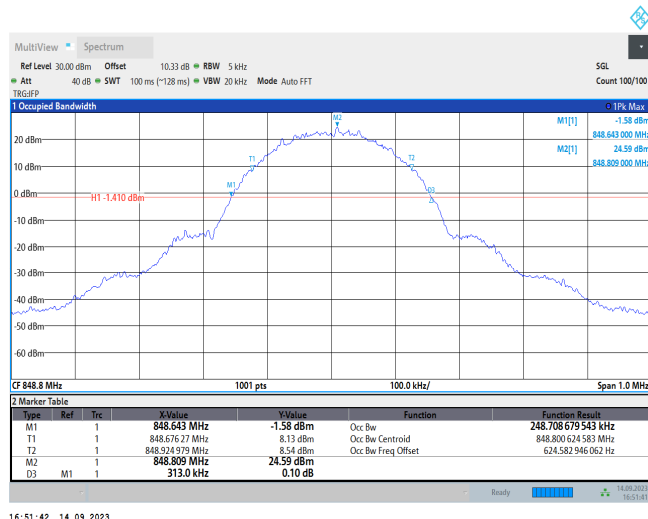
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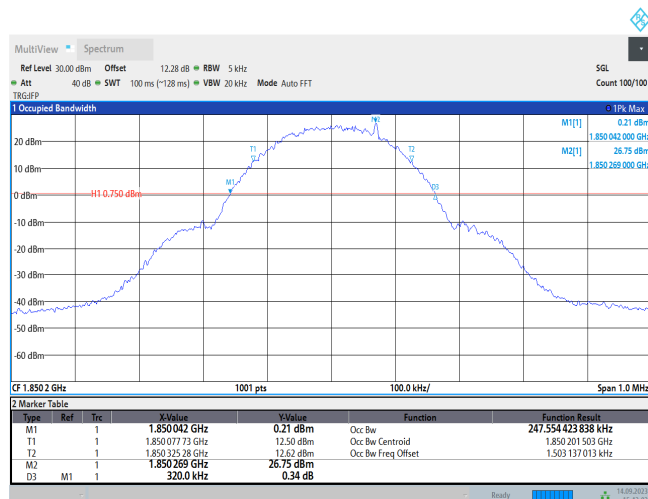
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EGPRS850-251



16:51:42 14.09.2023

GSM1900-512



15:43:03 14.09.2023

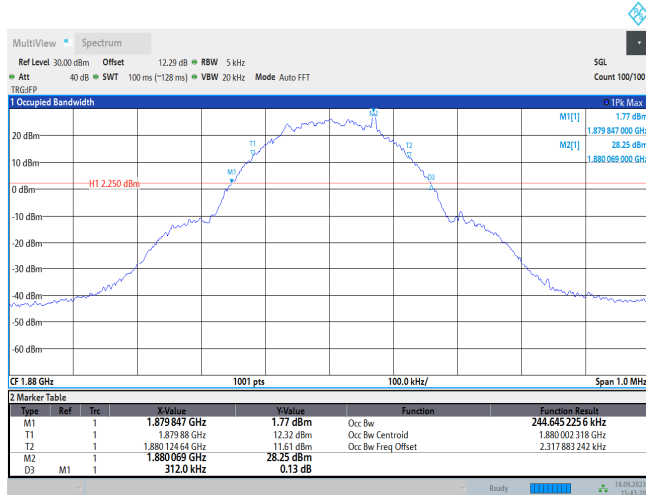


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GSM1900-661



15:43:20 14.09.2023

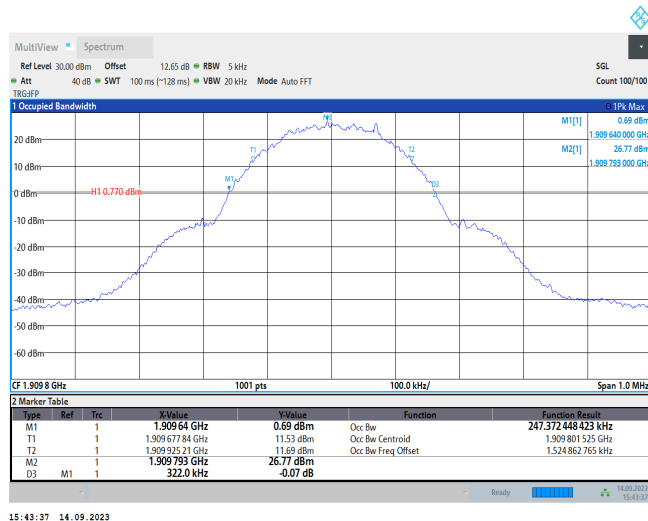


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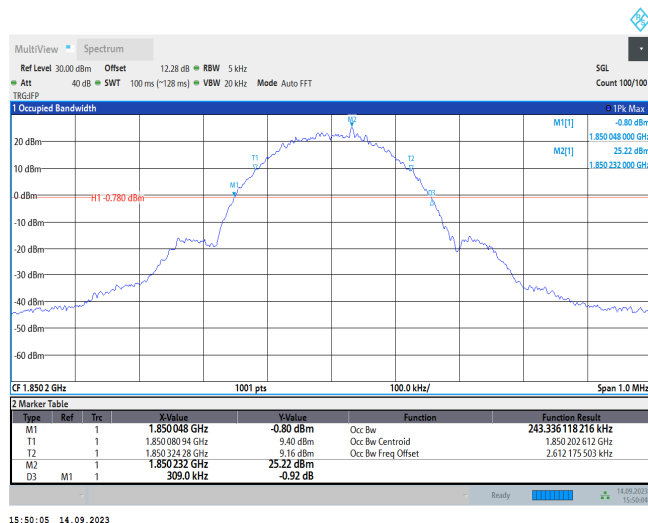
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GSM1900-810



EGPRS1900-512

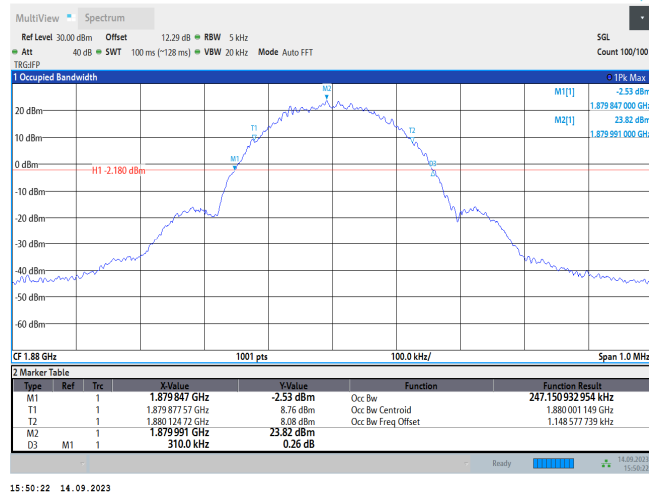


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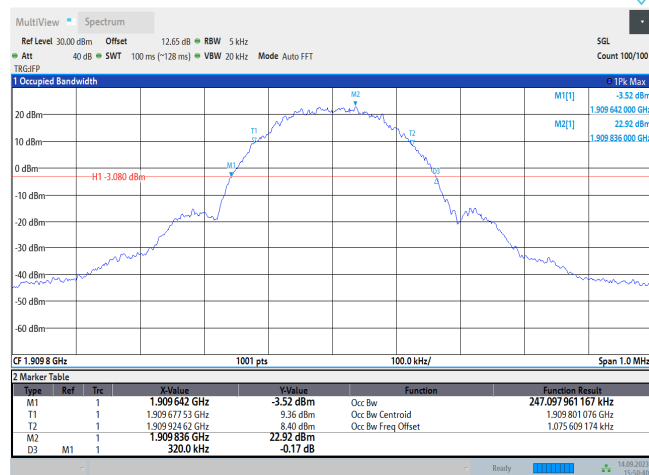
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EGPRS1900-661



15:50:22 14.09.2023

EGPRS1900-810



15:50:41 14.09.2023

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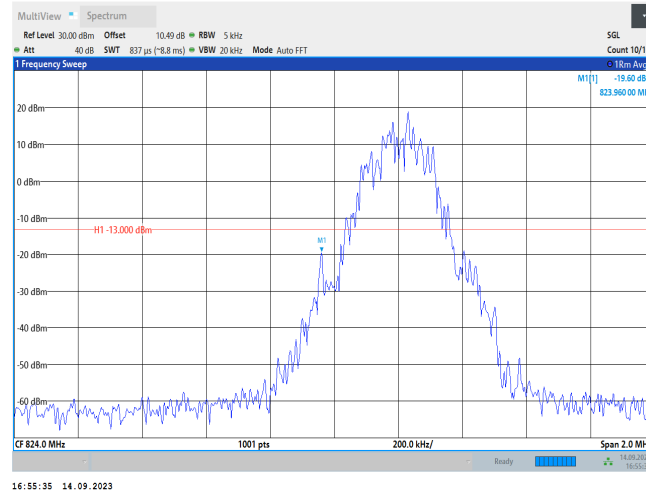
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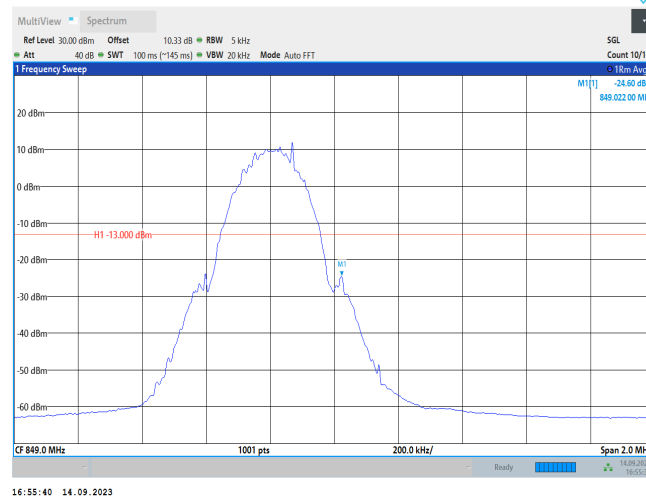
Band Edge

Test Graphs

GSM850-128



GSM850-251



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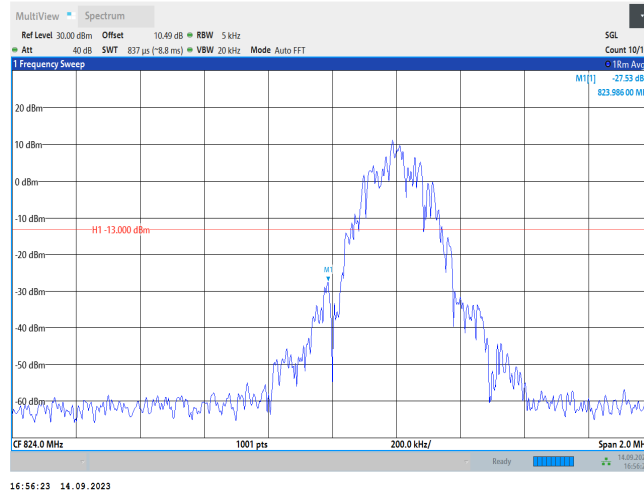
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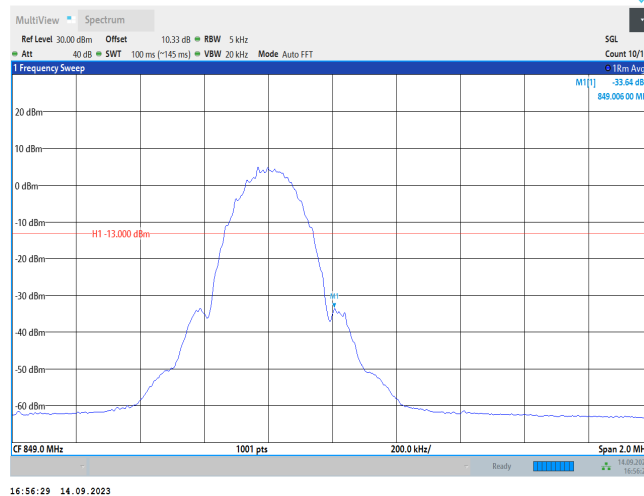
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EGPRS850-128



EGPRS850-251



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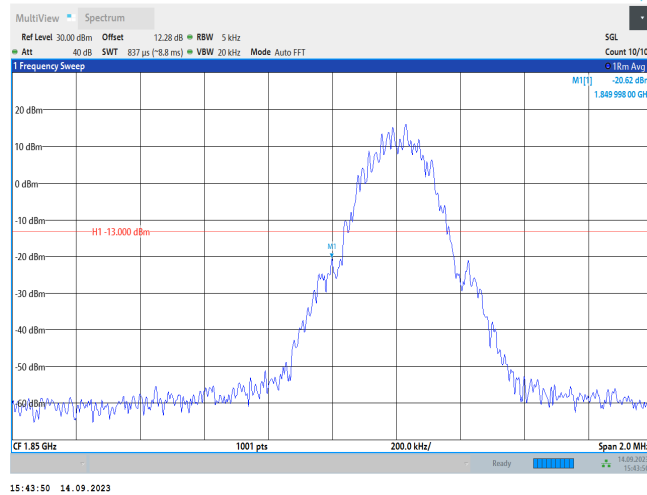


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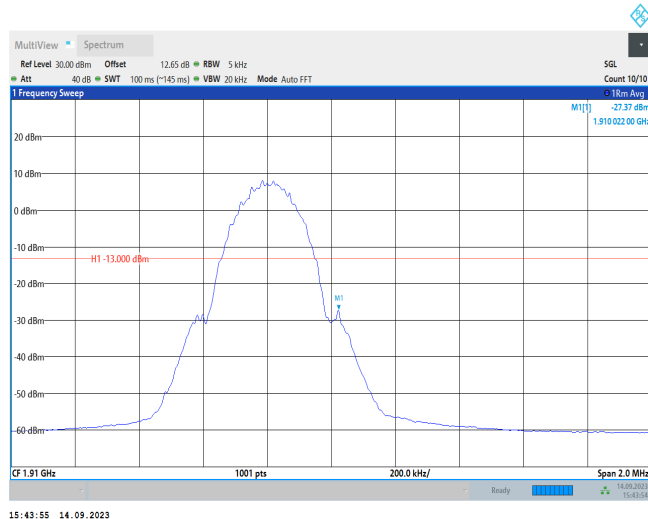
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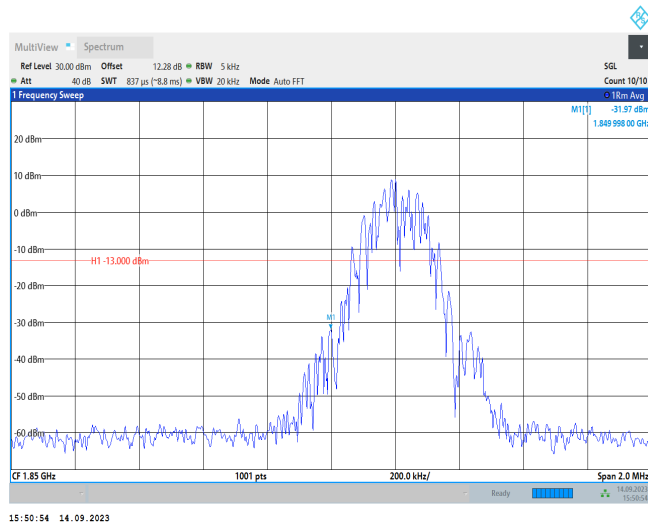
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GSM1900-810



EGPRS1900-512



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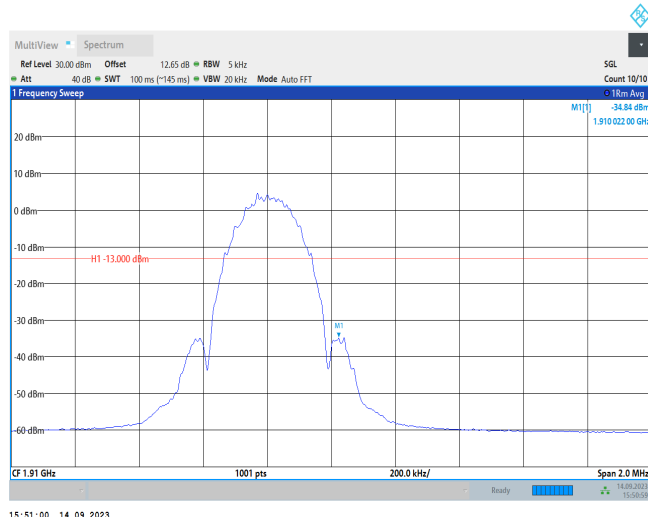
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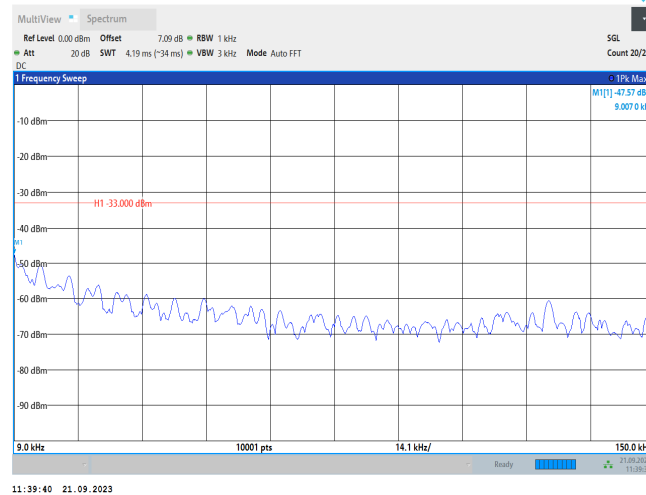
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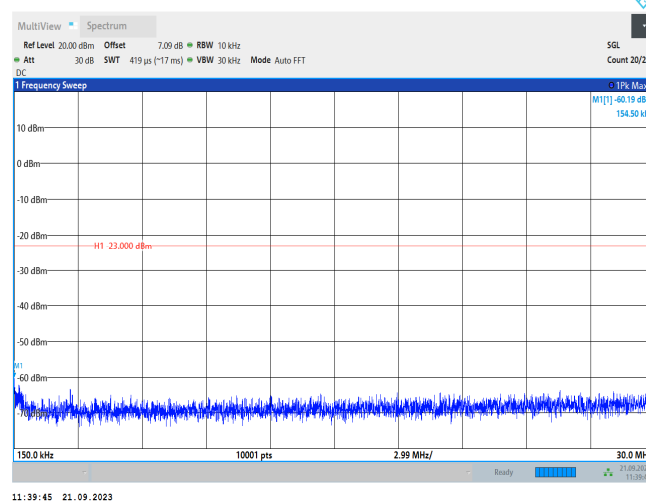
Conducted Spurious Emission

Test Graphs

GSM850-128-0.009~0.15MHz



GSM850-128-0.15~30MHz



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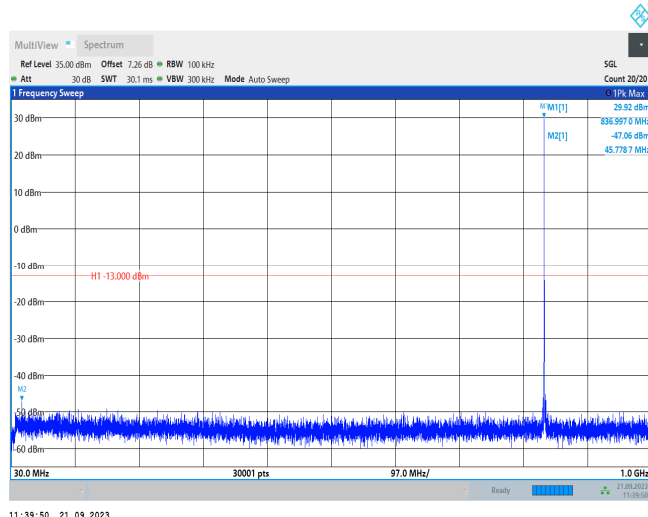
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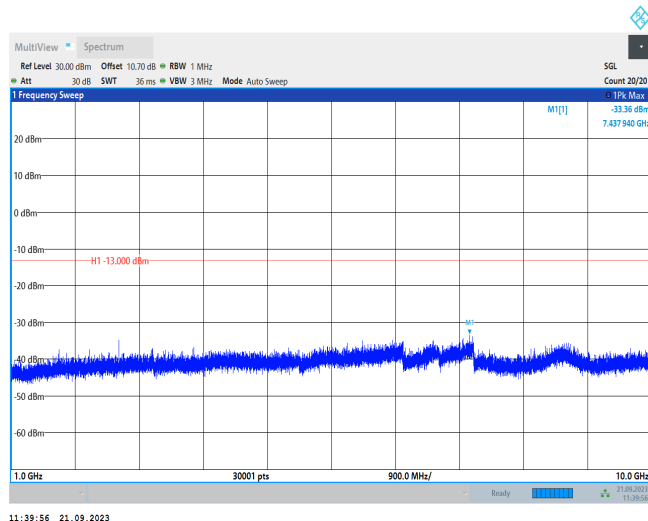
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GSM850-128-30~1000MHz



GSM850-128-1000~10000MHz



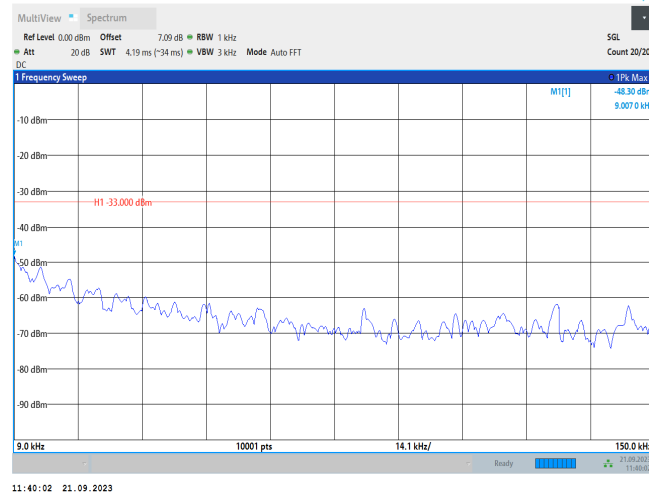


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GSM850-190-0.009~0.15MHz



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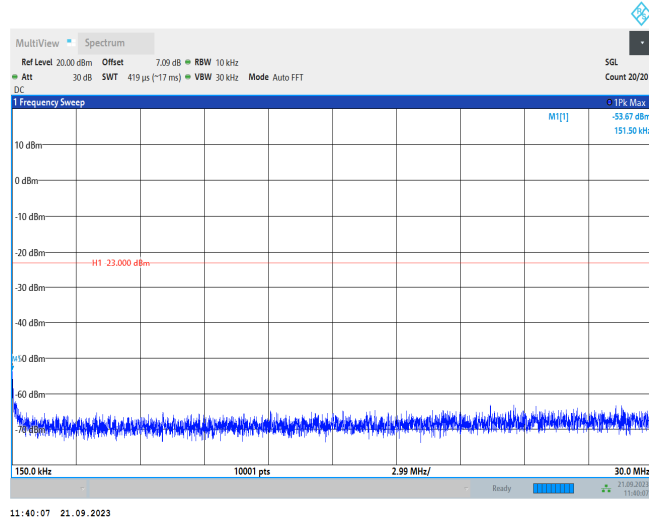
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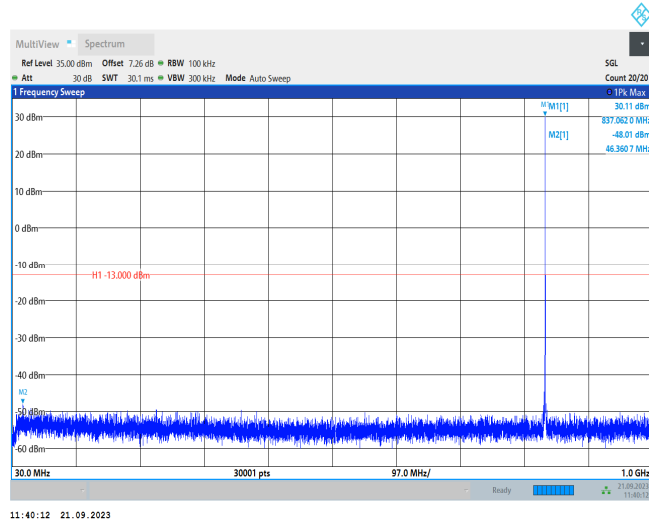
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GSM850-190-0.15~30MHz



GSM850-190-30~1000MHz



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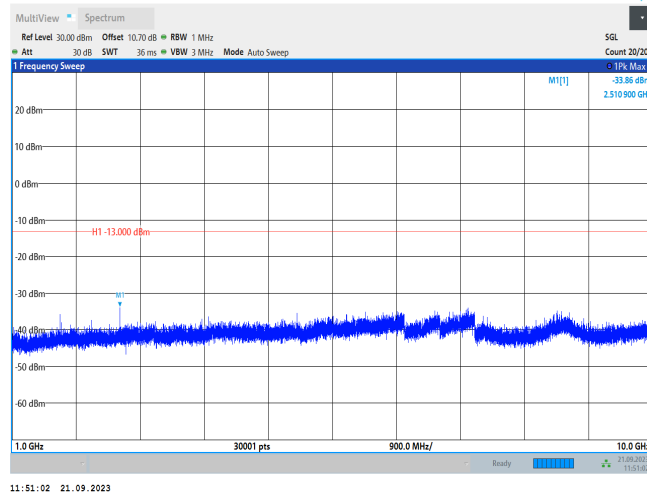


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GSM850-190-1000~10000MHz



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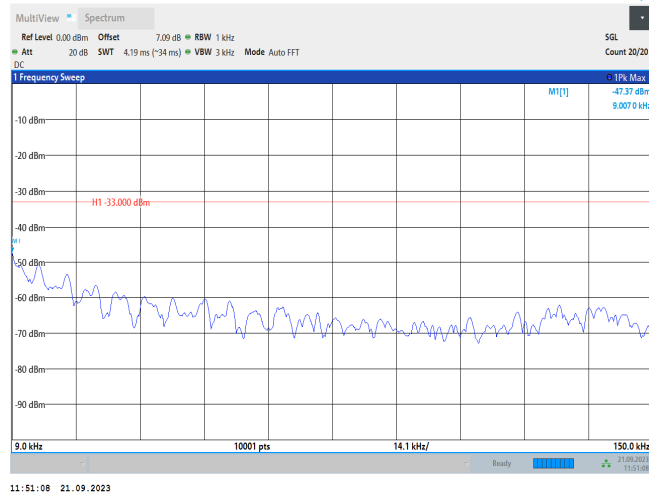
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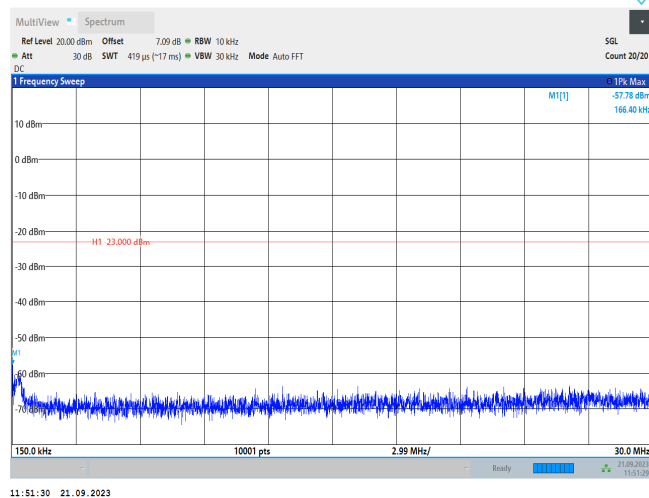
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GSM850-251-0.009~0.15MHz



GSM850-251-0.15~30MHz



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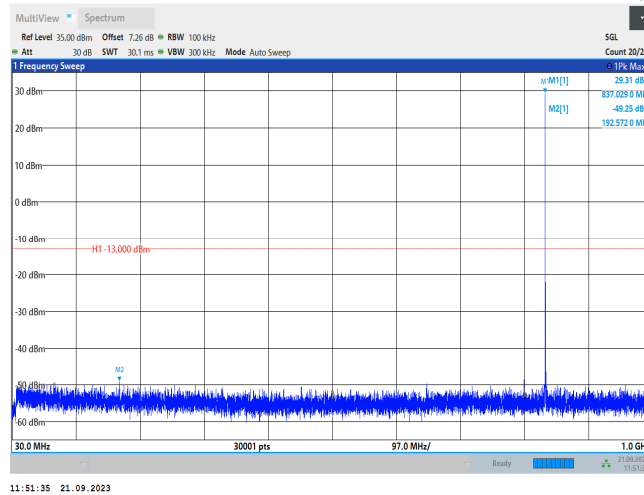


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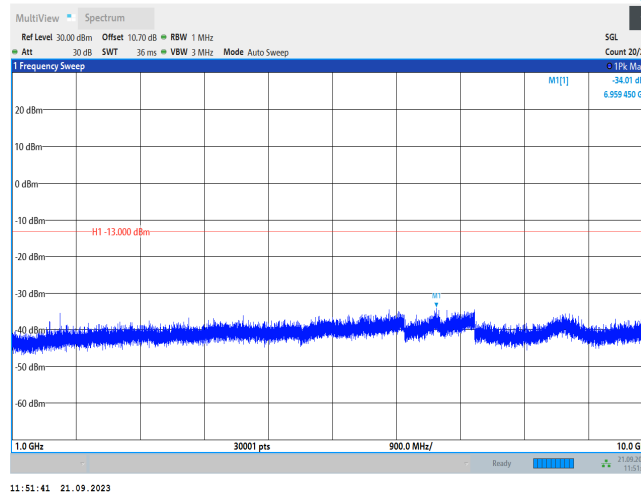
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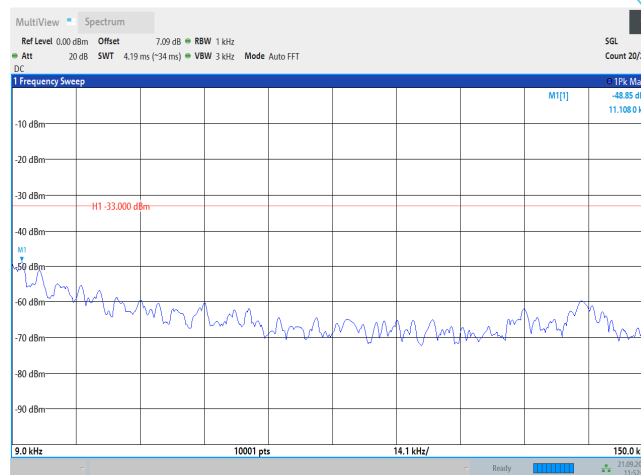
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GSM850-251-1000~10000MHz



11:51:41 21.09.2023

EGPRS850-128-0.009~0.15MHz



11:52:46 21.09.2023



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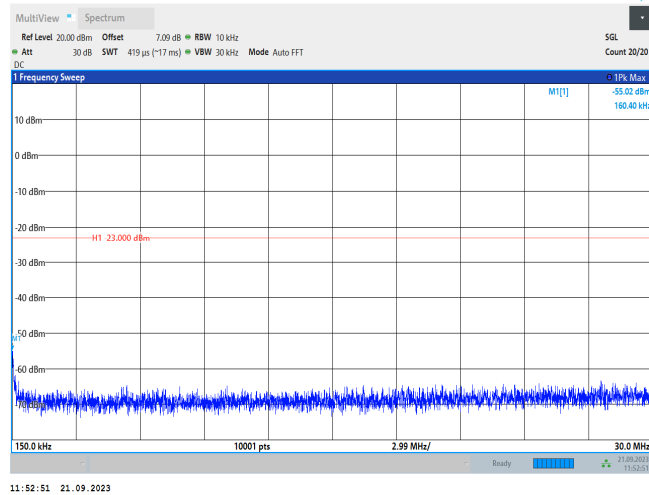


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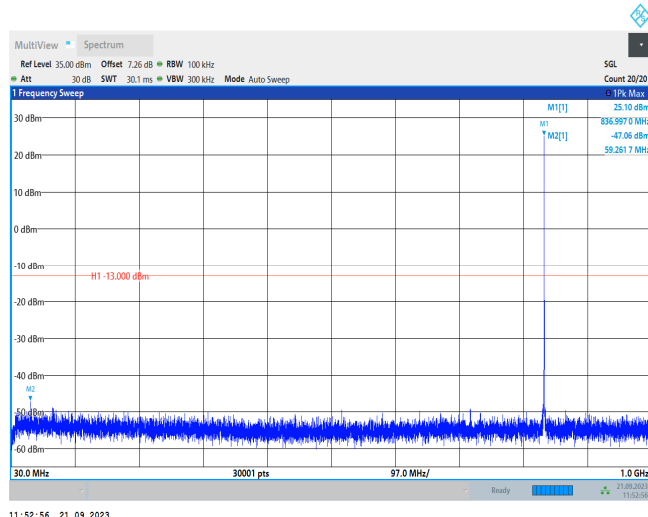
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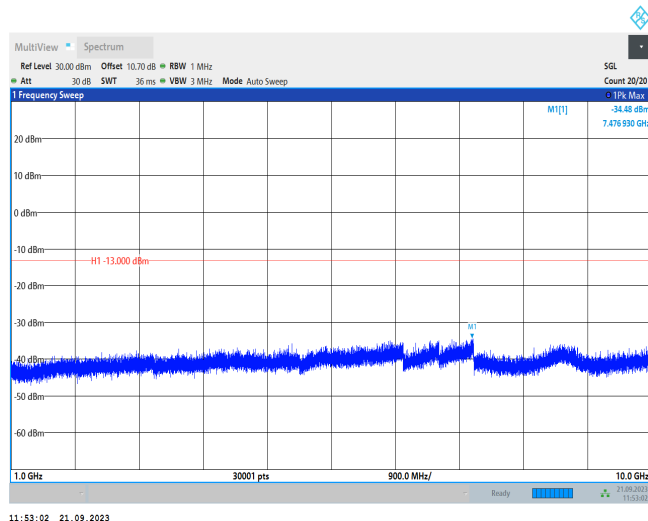
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EGPRS850-128-30~1000MHz



EGPRS850-128-1000~10000MHz



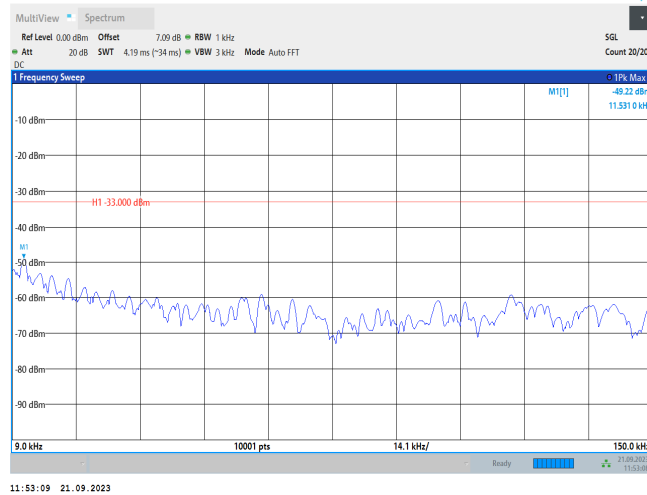


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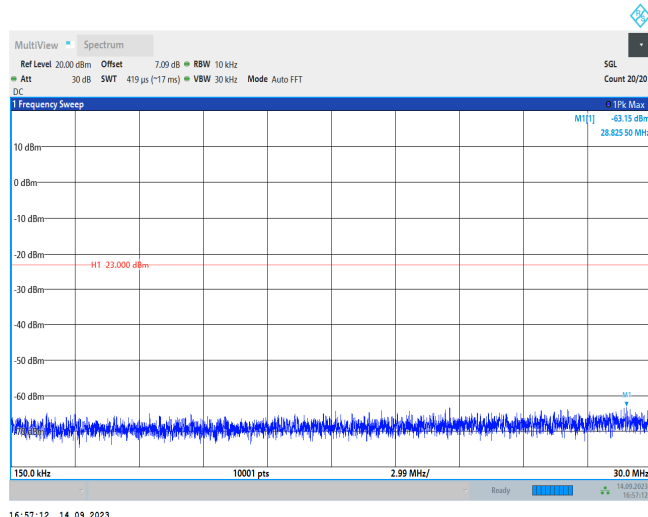
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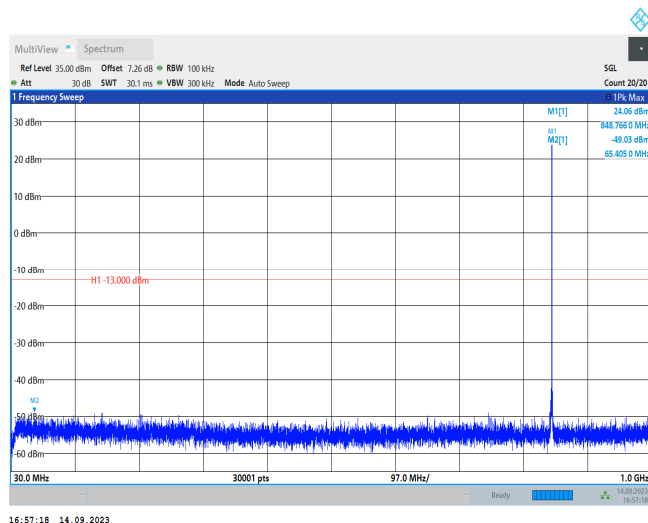
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EGPRS850-190-0.15~30MHz



EGPRS850-190-30~1000MHz



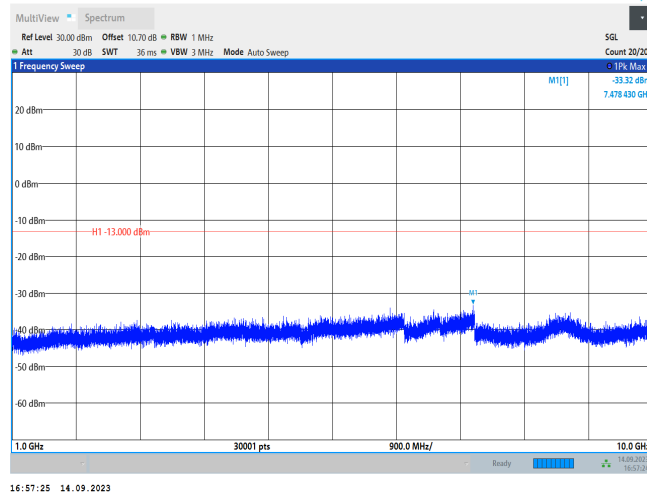


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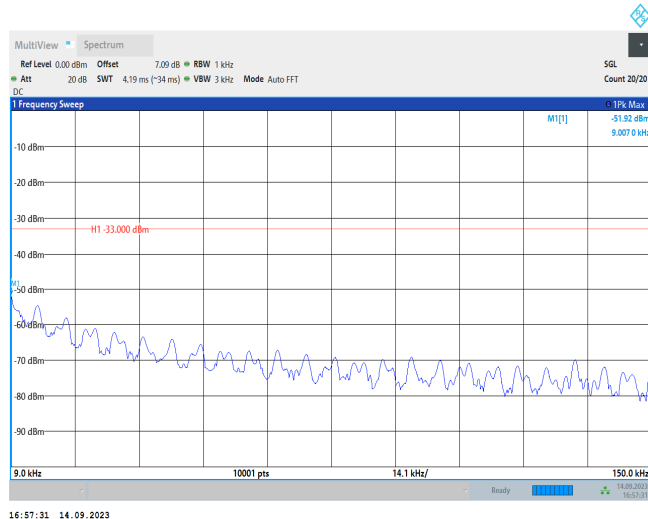
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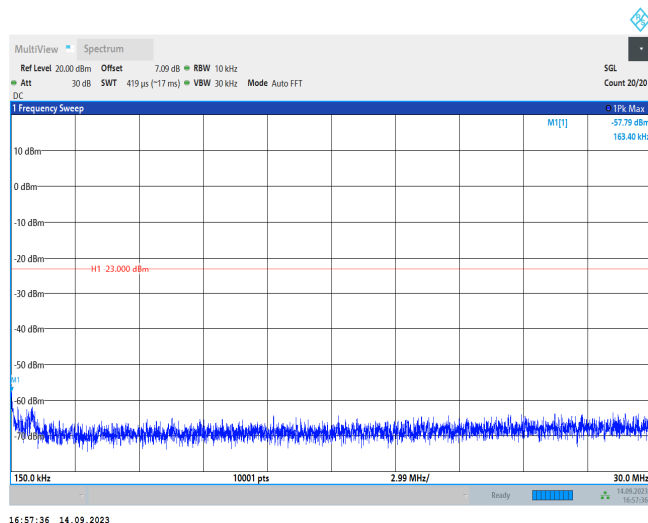
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EGPRS850-251-0.009~0.15MHz



EGPRS850-251-0.15~30MHz



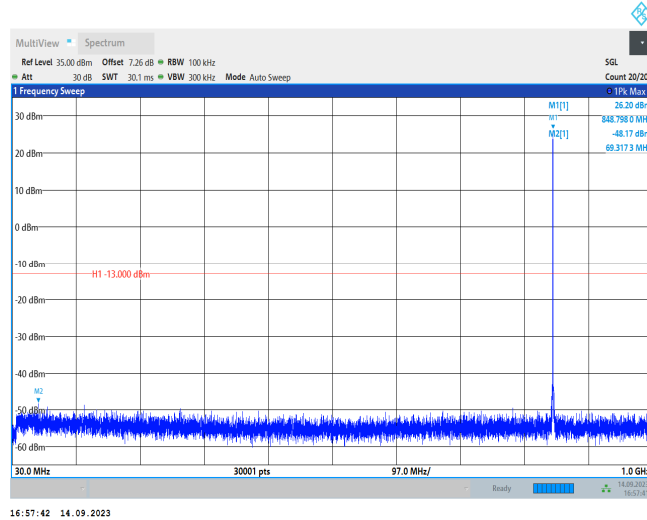


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EGPRS850-251-30~1000MHz



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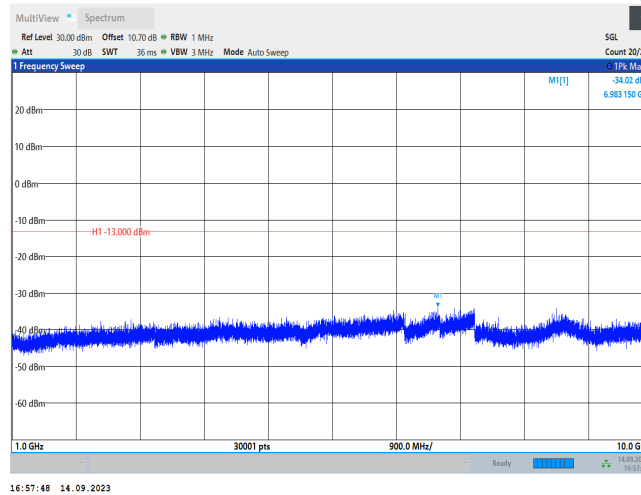
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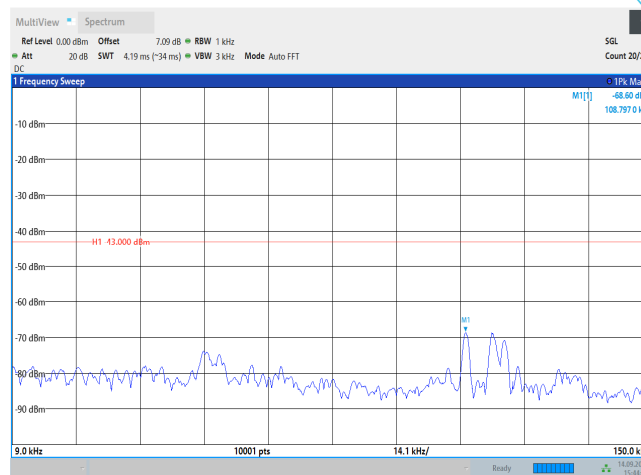
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GSM1900-512-0.009~0.15MHz



15:44:10 14.09.2023



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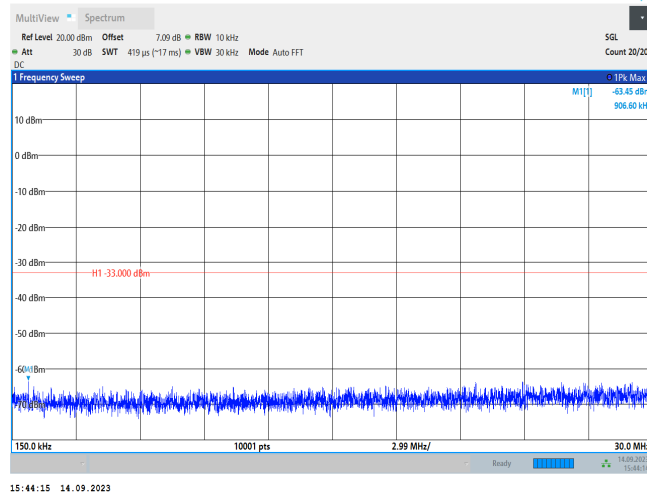


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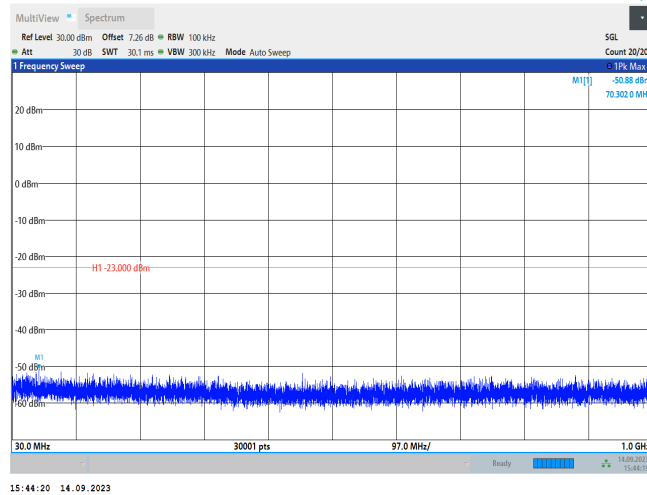
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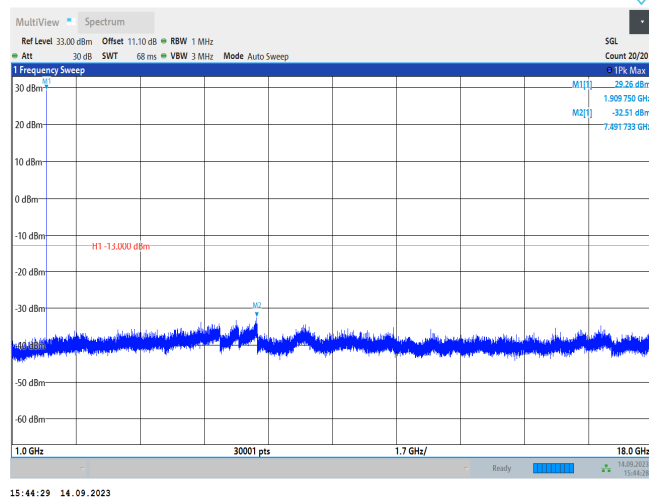
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GSM1900-512-30~1000MHz



GSM1900-512-1000~18000MHz



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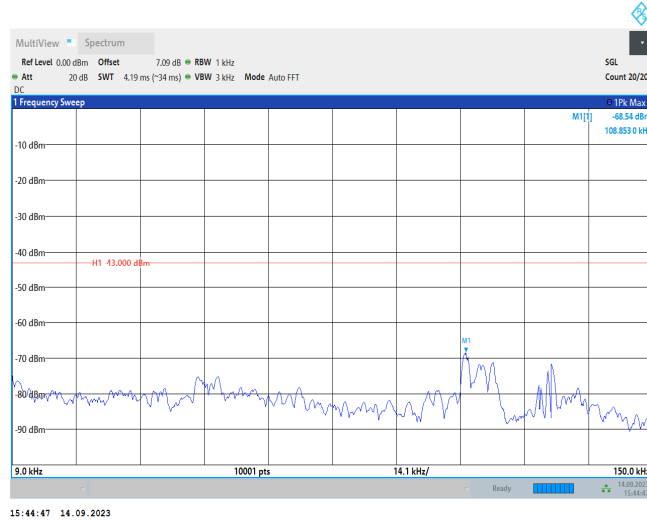


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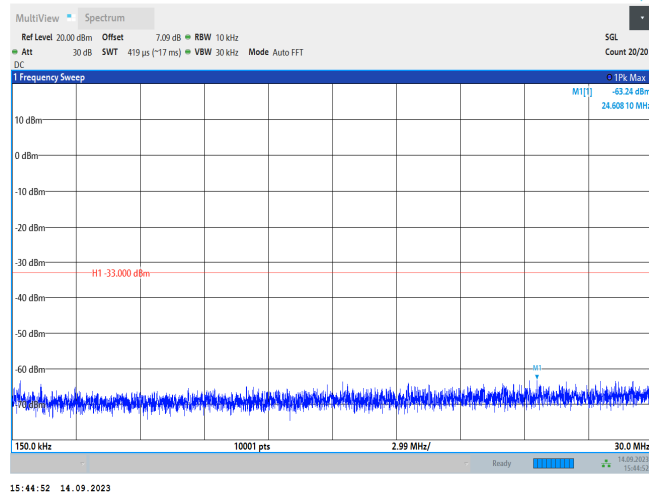
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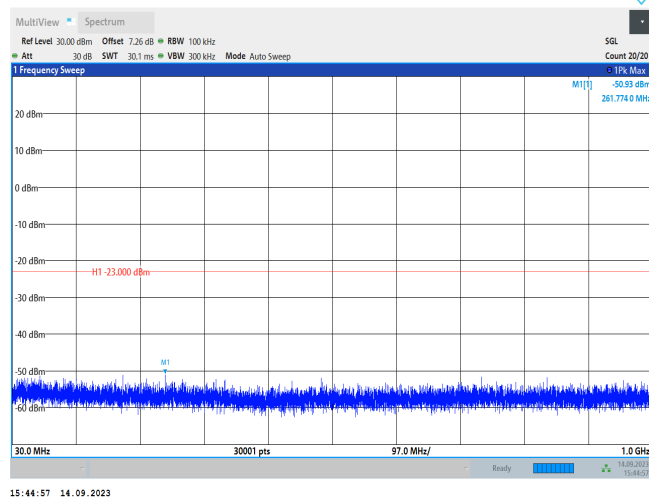
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GSM1900-661-0.15~30MHz



GSM1900-661-30~1000MHz



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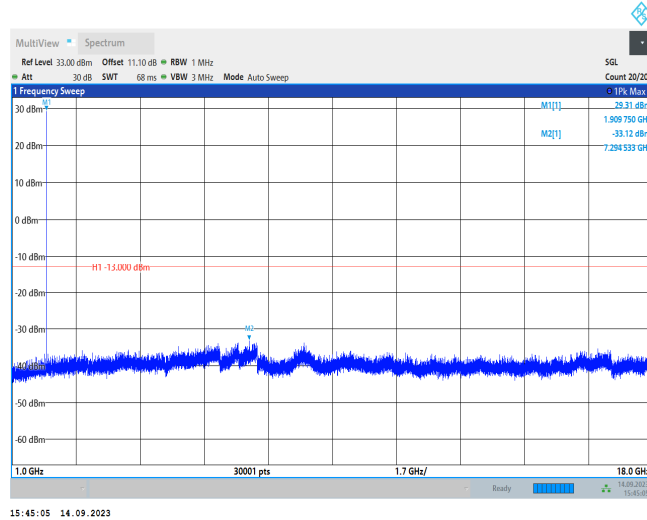


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GSM1900-661-1000~18000MHz



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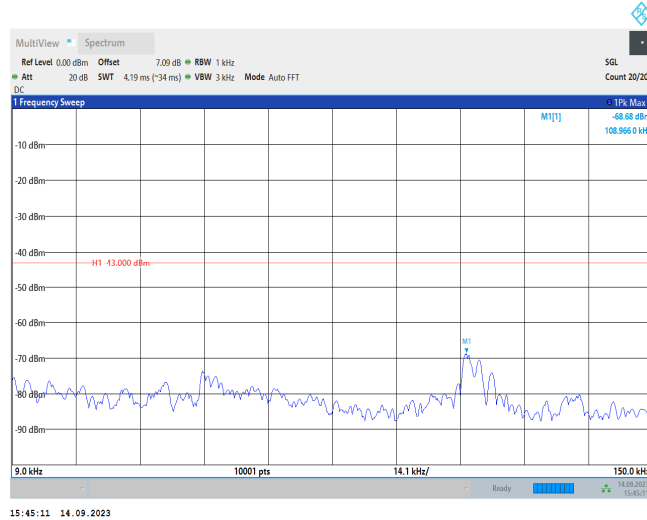


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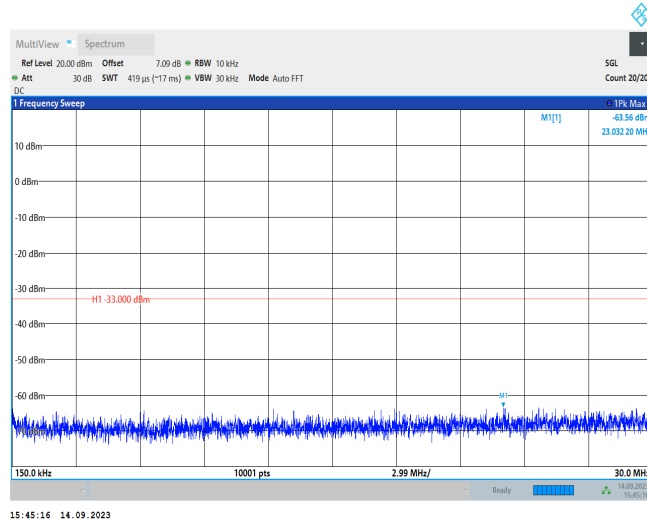
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GSM1900-810-0.009~0.15MHz



GSM1900-810-0.15~30MHz



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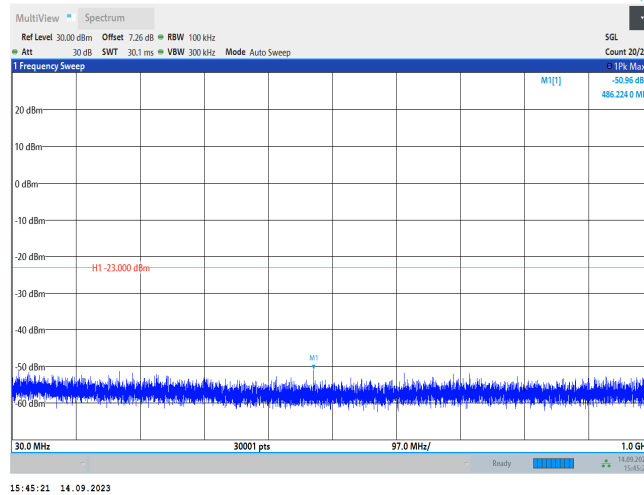


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GSM1900-810-30~1000MHz



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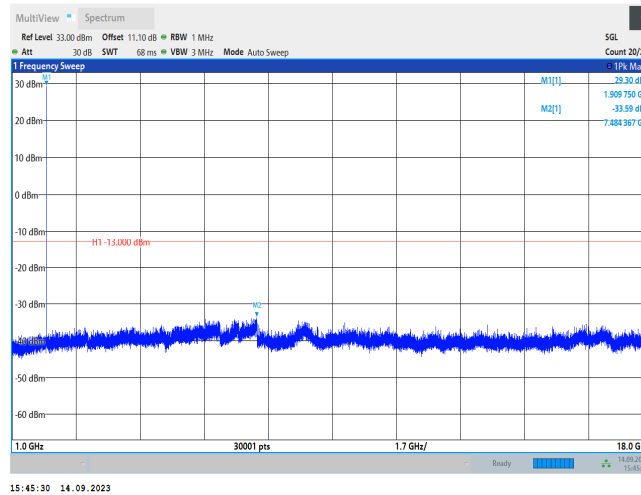
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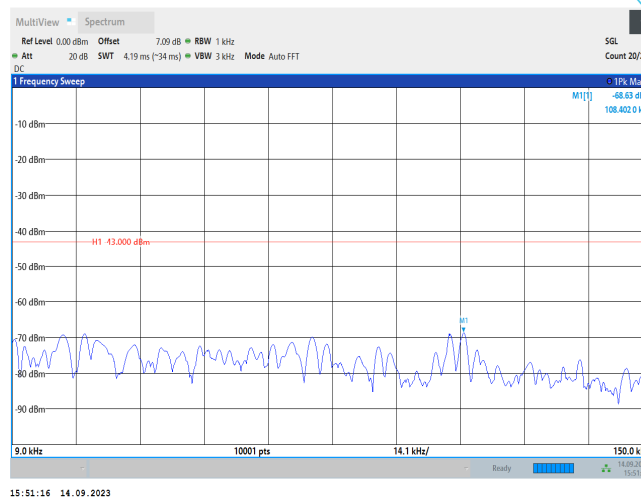
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GSM1900-810-1000~18000MHz



EGPRS1900-512-0.009~0.15MHz



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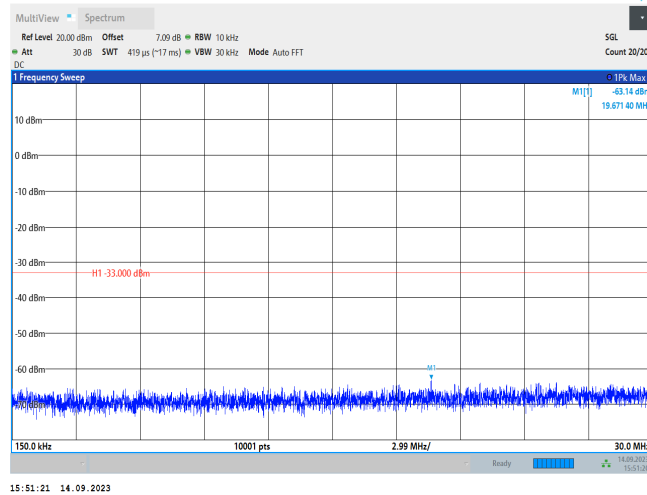
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EGPRS1900-512-0.15~30MHz



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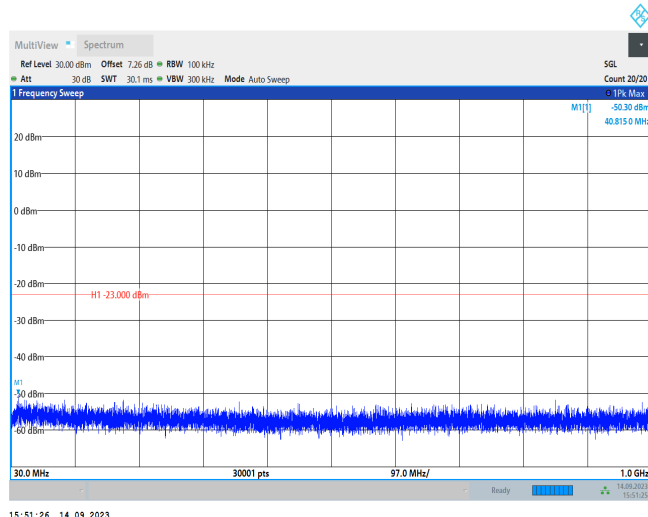
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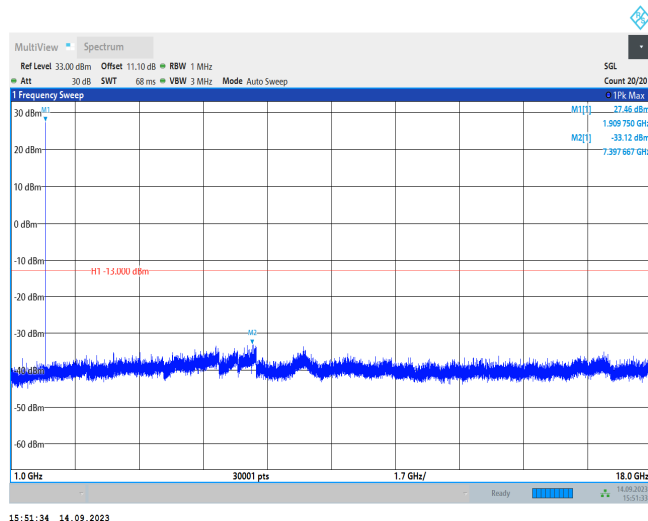
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EGPRS1900-512-30~1000MHz



EGPRS1900-512-1000~18000MHz



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Field Strength of Spurious Radiation

Test Band = GSM_850 ANT 1

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.5	57.11	-47.52	25.49	-60.18	-13.00	47.18	Horizontal
2	2472.5	58.06	-46.67	27.69	-56.18	-13.00	43.18	Horizontal
3	3715.5	46.90	-44.59	29.39	-63.56	-13.00	50.56	Horizontal
4	5129.5	45.43	-42.62	31.68	-60.77	-13.00	47.77	Horizontal
5	7406.5	43.43	-38.35	36.71	-53.47	-13.00	40.47	Horizontal
6	9910	41.24	-35.33	38.61	-50.74	-13.00	37.74	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.5	53.79	-47.52	25.49	-63.50	-13.00	50.50	Vertical
2	2472.5	57.10	-46.67	27.69	-57.14	-13.00	44.14	Vertical
3	3581	47.02	-44.67	28.94	-63.97	-13.00	50.97	Vertical
4	5150	45.48	-42.59	31.80	-60.57	-13.00	47.57	Vertical
5	7417.5	43.34	-38.36	36.74	-53.54	-13.00	40.54	Vertical
6	9933	41.50	-35.42	38.63	-50.55	-13.00	37.55	Vertical



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Test Band = GSM_850 ANT 1
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1673	60.79	-47.48	25.32	-56.63	-13.00	43.63	Horizontal
2	2510	56.01	-46.64	27.80	-58.09	-13.00	45.09	Horizontal
3	3942	46.21	-44.22	29.87	-63.40	-13.00	50.40	Horizontal
4	5824	45.04	-41.09	32.50	-58.81	-13.00	45.81	Horizontal
5	7423	43.65	-38.36	36.75	-53.22	-13.00	40.22	Horizontal
6	9906.5	41.15	-35.32	38.61	-50.82	-13.00	37.82	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1673	54.52	-47.48	25.32	-62.90	-13.00	49.90	Vertical
2	2510	59.88	-46.64	27.80	-54.22	-13.00	41.22	Vertical
3	3085	47.15	-45.87	28.87	-65.11	-13.00	52.11	Vertical
4	4410.5	46.03	-43.25	30.10	-62.38	-13.00	49.38	Vertical
5	7501.5	43.20	-38.39	36.89	-53.56	-13.00	40.56	Vertical
6	9880	41.35	-35.34	38.44	-50.81	-13.00	37.81	Vertical



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Test Band = GSM_850 ANT 1
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.5	59.55	-47.43	25.12	-58.02	-13.00	45.02	Horizontal
2	2546.5	55.48	-46.45	27.80	-58.43	-13.00	45.43	Horizontal
3	3900	46.44	-44.41	29.70	-63.53	-13.00	50.53	Horizontal
4	6048.5	44.56	-40.59	33.49	-57.80	-13.00	44.80	Horizontal
5	7409.5	43.49	-38.35	36.72	-53.40	-13.00	40.40	Horizontal
6	9916	41.39	-35.35	38.62	-50.60	-13.00	37.60	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.5	51.88	-47.43	25.12	-65.69	-13.00	52.69	Vertical
2	2546.5	54.78	-46.45	27.80	-59.13	-13.00	46.13	Vertical
3	3984.5	46.39	-44.02	29.83	-63.06	-13.00	50.06	Vertical
4	5995.5	44.94	-40.76	32.99	-58.09	-13.00	45.09	Vertical
5	7888	42.59	-37.52	36.57	-53.62	-13.00	40.62	Vertical
6	9923	41.17	-35.38	38.62	-50.85	-13.00	37.85	Vertical



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Test Band = GSM_1900 ANT 3

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.5	59.75	-44.51	29.30	-50.72	-13.00	37.72	Horizontal
2	5550.5	53.85	-41.64	32.20	-50.85	-13.00	37.85	Horizontal
3	8492.5	42.74	-36.50	36.49	-52.53	-13.00	39.53	Horizontal
4	9906.5	41.60	-35.13	38.61	-50.18	-13.00	37.18	Horizontal
5	13577.5	42.41	-37.87	40.06	-50.66	-13.00	37.66	Horizontal
6	17989.5	40.88	-43.12	48.01	-49.49	-13.00	36.49	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.5	58.65	-44.51	29.30	-51.82	-13.00	38.82	Vertical
2	5550.5	48.07	-41.64	32.20	-56.63	-13.00	43.63	Vertical
3	7437.5	43.98	-38.28	36.78	-52.78	-13.00	39.78	Vertical
4	9879	41.88	-35.12	38.43	-50.07	-13.00	37.07	Vertical
5	13568.5	42.39	-37.89	40.04	-50.72	-13.00	37.72	Vertical
6	16399	41.49	-34.83	38.80	-49.80	-13.00	36.80	Vertical



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Test Band = GSM_1900 ANT 3
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760	57.14	-44.76	29.64	-53.24	-13.00	40.24	Horizontal
2	5640	60.17	-41.32	32.52	-43.89	-13.00	30.89	Horizontal
3	7859.5	43.96	-37.65	36.74	-52.21	-13.00	39.21	Horizontal
4	9912.5	42.27	-35.29	38.61	-49.67	-13.00	36.67	Horizontal
5	13560.5	43.20	-37.90	40.02	-49.94	-13.00	36.94	Horizontal
6	17999.5	40.91	-43.04	48.19	-49.20	-13.00	36.20	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760	55.41	-44.76	29.64	-54.97	-13.00	41.97	Vertical
2	5640	49.34	-41.32	32.52	-54.72	-13.00	41.72	Vertical
3	7402	44.62	-38.28	36.70	-52.22	-13.00	39.22	Vertical
4	9916	42.54	-35.38	38.62	-49.48	-13.00	36.48	Vertical
5	13638.5	43.05	-37.91	40.14	-49.98	-13.00	36.98	Vertical
6	17973.5	41.74	-43.25	47.72	-49.05	-13.00	36.05	Vertical



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Test Band = GSM_1900 ANT 3
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819.5	58.41	-44.79	29.76	-51.88	-13.00	38.88	Horizontal
2	5729.5	47.68	-41.23	32.50	-56.31	-13.00	43.31	Horizontal
3	7411	44.30	-38.28	36.72	-52.52	-13.00	39.52	Horizontal
4	9879.5	42.29	-35.12	38.44	-49.65	-13.00	36.65	Horizontal
5	10953.5	42.88	-37.19	40.15	-49.42	-13.00	36.42	Horizontal
6	17988	40.98	-43.13	47.98	-49.43	-13.00	36.43	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819.5	54.00	-44.79	29.76	-56.29	-13.00	43.29	Vertical
2	5729.5	58.38	-41.23	32.50	-45.61	-13.00	32.61	Vertical
3	7854	43.68	-37.67	36.78	-52.47	-13.00	39.47	Vertical
4	9901	42.08	-34.99	38.60	-49.57	-13.00	36.57	Vertical
5	13597.5	42.91	-37.84	40.10	-50.09	-13.00	37.09	Vertical
6	17994.5	40.84	-43.08	48.10	-49.40	-13.00	36.40	Vertical



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Test Band = GSM_850 ANT 0
Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1160	47.88	-47.82	24.52	-70.68	-13.00	57.68	Horizontal
2	1648.5	58.83	-47.52	25.49	-58.46	-13.00	45.46	Horizontal
3	2472.5	66.56	-46.67	27.69	-47.68	-13.00	34.68	Horizontal
4	4015	46.51	-43.97	29.74	-62.98	-13.00	49.98	Horizontal
5	6040	43.91	-40.62	33.40	-58.57	-13.00	45.57	Horizontal
6	9945.5	40.85	-35.47	38.65	-51.23	-13.00	38.23	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1152.5	47.97	-47.81	24.51	-70.59	-13.00	57.59	Vertical
2	1648.5	58.17	-47.52	25.49	-59.12	-13.00	46.12	Vertical
3	2472.5	67.25	-46.67	27.69	-46.99	-13.00	33.99	Vertical
4	3702.5	46.87	-44.50	29.32	-63.57	-13.00	50.57	Vertical
5	5653.5	44.85	-41.37	32.50	-59.28	-13.00	46.28	Vertical
6	9887	41.24	-35.32	38.50	-50.84	-13.00	37.84	Vertical



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Test Band = GSM_850 ANT 0
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1673	56.69	-47.48	25.32	-60.73	-13.00	47.73	Horizontal
2	2510	59.96	-46.64	27.80	-54.14	-13.00	41.14	Horizontal
3	4396.5	46.09	-43.26	30.09	-62.34	-13.00	49.34	Horizontal
4	6033.5	44.28	-40.64	33.34	-58.28	-13.00	45.28	Horizontal
5	7419	43.03	-38.36	36.74	-53.85	-13.00	40.85	Horizontal
6	9941.5	41.42	-35.45	38.64	-50.65	-13.00	37.65	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1673	54.21	-47.48	25.32	-63.21	-13.00	50.21	Vertical
2	2482.5	47.49	-46.68	27.73	-66.72	-13.00	53.72	Vertical
3	4395.5	45.66	-43.25	30.08	-62.77	-13.00	49.77	Vertical
4	5766.5	44.55	-41.16	32.47	-59.40	-13.00	46.40	Vertical
5	7419	43.08	-38.36	36.74	-53.80	-13.00	40.80	Vertical
6	9907.5	41.25	-35.32	38.61	-50.72	-13.00	37.72	Vertical



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Test Band = GSM_850 ANT 0

Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.5	56.70	-47.43	25.12	-60.87	-13.00	47.87	Horizontal
2	2546.5	61.35	-46.45	27.80	-52.56	-13.00	39.56	Horizontal
3	3710	46.82	-44.55	29.36	-63.63	-13.00	50.63	Horizontal
4	5172.5	44.79	-42.54	31.85	-61.16	-13.00	48.16	Horizontal
5	7418	43.10	-38.36	36.74	-53.78	-13.00	40.78	Horizontal
6	9911.5	41.37	-35.33	38.61	-50.61	-13.00	37.61	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.5	55.23	-47.43	25.12	-62.34	-13.00	49.34	Vertical
2	2546.5	60.08	-46.45	27.80	-53.83	-13.00	40.83	Vertical
3	3732.5	46.85	-44.71	29.50	-63.62	-13.00	50.62	Vertical
4	4852.5	45.48	-42.92	30.62	-62.08	-13.00	49.08	Vertical
5	7416.5	42.92	-38.35	36.73	-53.96	-13.00	40.96	Vertical
6	9911	41.02	-35.33	38.61	-50.96	-13.00	37.96	Vertical



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Test Band = GSM_1900 ANT 4

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.5	51.06	-44.51	29.30	-59.41	-13.00	46.41	Horizontal
2	5550.5	46.76	-41.64	32.20	-57.94	-13.00	44.94	Horizontal
3	8467	42.52	-36.63	36.43	-52.94	-13.00	39.94	Horizontal
4	9881	41.66	-35.11	38.45	-50.26	-13.00	37.26	Horizontal
5	13646	42.09	-37.92	40.15	-50.94	-13.00	37.94	Horizontal
6	17993.5	39.96	-43.09	48.08	-50.31	-13.00	37.31	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.5	50.05	-44.51	29.30	-60.42	-13.00	47.42	Vertical
2	5550.5	49.54	-41.64	32.20	-55.16	-13.00	42.16	Vertical
3	7401.5	43.49	-38.28	36.70	-53.35	-13.00	40.35	Vertical
4	9878	41.89	-35.13	38.42	-50.08	-13.00	37.08	Vertical
5	13570.5	42.22	-37.88	40.04	-50.88	-13.00	37.88	Vertical
6	16396.5	40.73	-34.84	38.79	-50.58	-13.00	37.58	Vertical



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Test Band = GSM_1900 ANT 4

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760	48.36	-44.76	29.64	-62.02	-13.00	49.02	Horizontal
2	5640	48.13	-41.32	32.52	-55.93	-13.00	42.93	Horizontal
3	7418	43.66	-38.28	36.74	-53.14	-13.00	40.14	Horizontal
4	9580	41.51	-35.71	37.80	-51.66	-13.00	38.66	Horizontal
5	13558.5	42.14	-37.90	40.02	-51.00	-13.00	38.00	Horizontal
6	16364.5	40.77	-35.02	38.69	-50.82	-13.00	37.82	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3711	47.32	-44.56	29.37	-63.13	-13.00	50.13	Vertical
2	5640	50.86	-41.32	32.52	-53.20	-13.00	40.20	Vertical
3	7401.5	43.47	-38.28	36.70	-53.37	-13.00	40.37	Vertical
4	9891.5	41.35	-35.03	38.53	-50.41	-13.00	37.41	Vertical
5	13645	42.08	-37.92	40.15	-50.95	-13.00	37.95	Vertical
6	17992.5	39.89	-43.10	48.07	-50.40	-13.00	37.40	Vertical



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Test Band = GSM_1900 ANT 4 Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819.5	49.02	-44.79	29.76	-61.27	-13.00	48.27	Horizontal
2	5729.5	47.95	-41.23	32.50	-56.04	-13.00	43.04	Horizontal
3	7415.5	43.45	-38.28	36.73	-53.36	-13.00	40.36	Horizontal
4	9912.5	41.43	-35.29	38.61	-50.51	-13.00	37.51	Horizontal
5	13564.5	41.92	-37.89	40.03	-51.20	-13.00	38.20	Horizontal
6	17992	39.46	-43.10	48.06	-50.84	-13.00	37.84	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819.5	48.14	-44.79	29.76	-62.15	-13.00	49.15	Vertical
2	5729.5	51.29	-41.23	32.50	-52.70	-13.00	39.70	Vertical
3	7418.5	43.93	-38.28	36.74	-52.87	-13.00	39.87	Vertical
4	9889	41.54	-35.04	38.51	-50.25	-13.00	37.25	Vertical
5	13565	41.77	-37.89	40.03	-51.35	-13.00	38.35	Vertical
6	17970	40.37	-43.28	47.66	-50.51	-13.00	37.51	Vertical



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Test Band = GSM_1900 ANT 5

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2975	37.40	-17.21	28.45	-46.62	-13.00	33.62	Horizontal
2	4402	46.78	-43.39	30.10	-61.77	-13.00	48.77	Horizontal
3	6036.5	44.72	-40.99	33.37	-58.16	-13.00	45.16	Horizontal
4	8404.5	42.59	-36.97	36.49	-53.15	-13.00	40.15	Horizontal
5	9914.5	41.65	-35.34	38.61	-50.34	-13.00	37.34	Horizontal
6	16397	40.78	-34.84	38.79	-50.53	-13.00	37.53	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2986.5	37.27	-17.38	28.52	-46.85	-13.00	33.85	Vertical
2	4382	46.28	-43.40	30.03	-62.35	-13.00	49.35	Vertical
3	6113.5	44.60	-40.58	33.37	-57.87	-13.00	44.87	Vertical
4	8423	42.69	-36.87	36.45	-52.99	-13.00	39.99	Vertical
5	11106	42.69	-37.69	40.20	-50.06	-13.00	37.06	Vertical
6	16360	41.52	-35.04	38.68	-50.10	-13.00	37.10	Vertical



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Test Band = GSM_1900 ANT 5

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2994	37.43	-17.43	28.56	-46.70	-13.00	33.70	Horizontal
2	4417	46.93	-43.33	30.10	-61.56	-13.00	48.56	Horizontal
3	5640	46.59	-41.32	32.52	-57.47	-13.00	44.47	Horizontal
4	8380.5	42.76	-36.99	36.42	-53.07	-13.00	40.07	Horizontal
5	11095.5	42.31	-37.56	40.20	-50.31	-13.00	37.31	Horizontal
6	17994.5	40.68	-43.08	48.10	-49.56	-13.00	36.56	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2996	37.44	-17.43	28.58	-46.67	-13.00	33.67	Vertical
2	3982	47.03	-44.18	29.84	-62.57	-13.00	49.57	Vertical
3	5640	47.74	-41.32	32.52	-56.32	-13.00	43.32	Vertical
4	8340	42.75	-36.99	36.32	-53.18	-13.00	40.18	Vertical
5	11082	42.30	-37.48	40.18	-50.26	-13.00	37.26	Vertical
6	17998.5	39.80	-43.05	48.17	-50.34	-13.00	37.34	Vertical



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Test Band = GSM_1900 ANT 5
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2973.5	37.44	-17.18	28.44	-46.56	-13.00	33.56	Horizontal
2	4440	47.02	-43.23	30.10	-61.37	-13.00	48.37	Horizontal
3	6025	45.43	-41.07	33.25	-57.65	-13.00	44.65	Horizontal
4	8436.5	42.46	-36.80	36.43	-53.17	-13.00	40.17	Horizontal
5	11132	43.01	-38.12	40.20	-50.17	-13.00	37.17	Horizontal
6	16394.5	41.09	-34.85	38.78	-50.24	-13.00	37.24	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2971	37.24	-17.13	28.43	-46.72	-13.00	33.72	Vertical
2	4467	46.43	-43.11	29.93	-62.01	-13.00	49.01	Vertical
3	5729.5	47.57	-41.23	32.50	-56.42	-13.00	43.42	Vertical
4	6723	43.81	-39.56	35.15	-55.86	-13.00	42.86	Vertical
5	9883.5	41.38	-35.09	38.47	-50.50	-13.00	37.50	Vertical
6	16397	40.90	-34.84	38.79	-50.41	-13.00	37.41	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	-1.19	-0.001422	±2.5	PASS
GSM850	190	VN	NT	5.04	0.006024	±2.5	PASS
GSM850	190	VH	NT	-2.13	-0.002546	±2.5	PASS
EGPRS850	190	VL	NT	-15.11	-0.018061	±2.5	PASS
EGPRS850	190	VN	NT	-12.17	-0.014547	±2.5	PASS
EGPRS850	190	VH	NT	-12.88	-0.015396	±2.5	PASS

Voltage						
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	VL	NT	-4.36	-0.002319	PASS
GSM1900	661	VN	NT	-6.23	-0.003314	PASS
GSM1900	661	VH	NT	-6.91	-0.003676	PASS
EGPRS1900	661	VL	NT	-11.56	-0.006149	PASS
EGPRS1900	661	VN	NT	-8.27	-0.004399	PASS
EGPRS1900	661	VH	NT	-11.78	-0.006266	PASS



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Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	-3.00	-0.003586	±2.5	PASS
GSM850	190	NV	-20	-1.00	-0.001195	±2.5	PASS
GSM850	190	NV	-10	-1.32	-0.001578	±2.5	PASS
GSM850	190	NV	0	-1.84	-0.002199	±2.5	PASS
GSM850	190	NV	10	-4.16	-0.004973	±2.5	PASS
GSM850	190	NV	20	-4.39	-0.005247	±2.5	PASS
GSM850	190	NV	30	-2.71	-0.003239	±2.5	PASS
GSM850	190	NV	40	1.45	0.001733	±2.5	PASS
GSM850	190	NV	50	-0.10	-0.000120	±2.5	PASS
EGPRS850	190	NV	-30	-8.10	-0.009682	±2.5	PASS
EGPRS850	190	NV	-20	-9.46	-0.011308	±2.5	PASS
EGPRS850	190	NV	-10	-11.46	-0.013698	±2.5	PASS
EGPRS850	190	NV	0	-12.40	-0.014822	±2.5	PASS
EGPRS850	190	NV	10	-10.85	-0.012969	±2.5	PASS
EGPRS850	190	NV	20	-11.24	-0.013435	±2.5	PASS
EGPRS850	190	NV	30	-12.59	-0.015049	±2.5	PASS
EGPRS850	190	NV	40	-12.62	-0.015085	±2.5	PASS
EGPRS850	190	NV	50	-14.30	-0.017093	±2.5	PASS



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Temperature						
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	NV	-30	-8.62	-0.004585	PASS
GSM1900	661	NV	-20	-5.68	-0.003021	PASS
GSM1900	661	NV	-10	-4.10	-0.002181	PASS
GSM1900	661	NV	0	-3.26	-0.001734	PASS
GSM1900	661	NV	10	-4.07	-0.002165	PASS
GSM1900	661	NV	20	-0.03	-0.000016	PASS
GSM1900	661	NV	30	5.10	0.002713	PASS
GSM1900	661	NV	40	6.84	0.003638	PASS
GSM1900	661	NV	50	3.62	0.001926	PASS
EGPRS1900	661	NV	-30	-10.49	-0.005580	PASS
EGPRS1900	661	NV	-20	-8.94	-0.004755	PASS
EGPRS1900	661	NV	-10	-8.30	-0.004415	PASS
EGPRS1900	661	NV	0	-10.69	-0.005686	PASS
EGPRS1900	661	NV	10	-7.55	-0.004016	PASS
EGPRS1900	661	NV	20	-17.95	-0.009548	PASS
EGPRS1900	661	NV	30	-5.13	-0.002729	PASS
EGPRS1900	661	NV	40	-7.85	-0.004176	PASS
EGPRS1900	661	NV	50	-25.93	-0.013793	PASS

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