

Report No.: SEWM2208000146RG04

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Appendix B.1

GSM850&1900



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
GSM850	128	33.12	30.17	38.45	PASS
GSM850	190	33.24	30.29	38.45	PASS
GSM850	251	33.51	30.56	38.45	PASS
Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	30.12	30.42	33.00	PASS
GSM1900	661	29.76	30.06	33.00	PASS
GSM1900	810	29.64	29.94	33.00	PASS



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Band	Channel	Slot	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	26.88	23.93	38.45	PASS
EGPRS850	128	2	25.77	22.82	38.45	PASS
EGPRS850	128	3	23.32	20.37	38.45	PASS
EGPRS850	128	4	22.13	19.18	38.45	PASS
EGPRS850	190	1	26.12	23.17	38.45	PASS
EGPRS850	190	2	25.11	22.16	38.45	PASS
EGPRS850	190	3	22.73	19.78	38.45	PASS
EGPRS850	190	4	21.58	18.63	38.45	PASS
EGPRS850	251	1	25.74	22.79	38.45	PASS
EGPRS850	251	2	24.79	21.84	38.45	PASS
EGPRS850	251	3	22.59	19.64	38.45	PASS
EGPRS850	251	4	21.23	18.28	38.45	PASS
Band	Channel	Slot	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	27.56	27.86	33.00	PASS
EGPRS1900	512	2	26.66	26.96	33.00	PASS
EGPRS1900	512	3	24.66	24.96	33.00	PASS
EGPRS1900	512	4	23.65	23.95	33.00	PASS
EGPRS1900	661	1	27.43	27.73	33.00	PASS
EGPRS1900	661	2	26.58	26.88	33.00	PASS
EGPRS1900	661	3	24.57	24.87	33.00	PASS
EGPRS1900	661	4	23.59	23.89	33.00	PASS
EGPRS1900	810	1	27.20	27.5	33.00	PASS
EGPRS1900	810	2	26.38	26.68	33.00	PASS
EGPRS1900	810	3	24.38	24.68	33.00	PASS
EGPRS1900	810	4	23.40	23.7	33.00	PASS



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Peak-to-Average Ratio(CCDF)**Test Result**

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	8.86	13	PASS
GSM850	190	8.58	13	PASS
GSM850	251	8.2	13	PASS
EGPRS850	128	12.52	13	PASS
EGPRS850	190	12.4	13	PASS
EGPRS850	251	12.5	13	PASS
GSM1900	512	9.52	13	PASS
GSM1900	661	9.52	13	PASS
GSM1900	810	9.52	13	PASS
EGPRS1900	512	12.42	13	PASS
EGPRS1900	661	12.38	13	PASS
EGPRS1900	810	12.32	13	PASS



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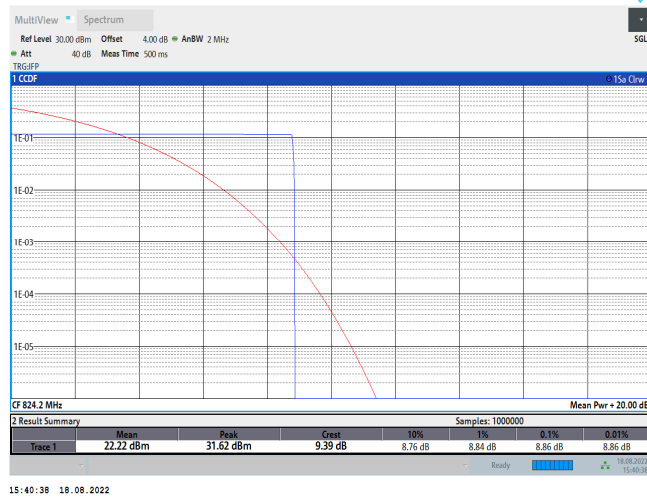
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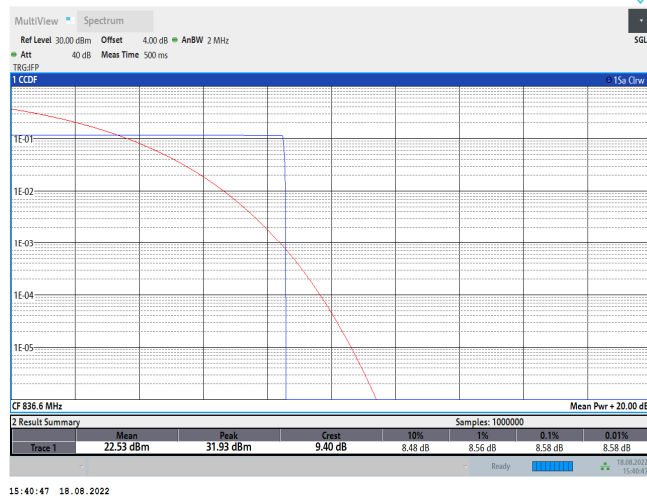
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Test Graphs

GSM850-128



GSM850-190



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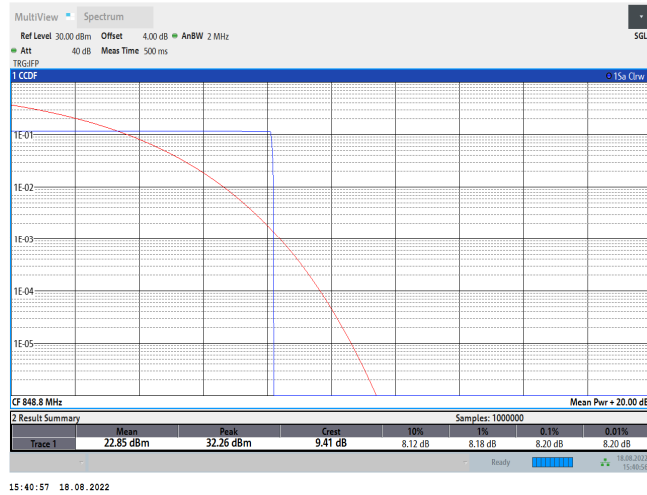
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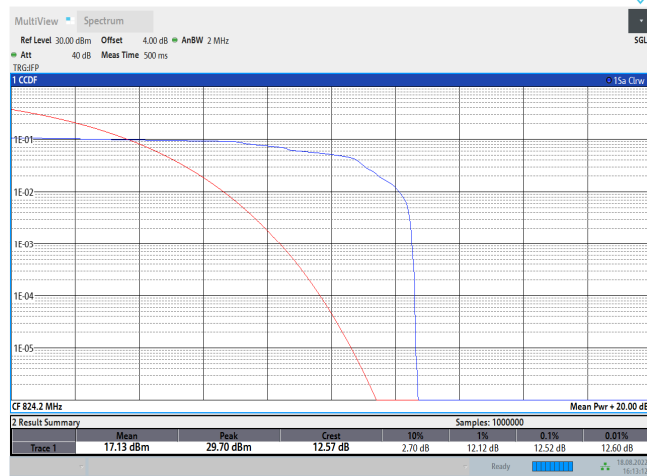
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GSM850-251



15:40:57 18.08.2022

EGPRS850-128



16:13:13 18.08.2022



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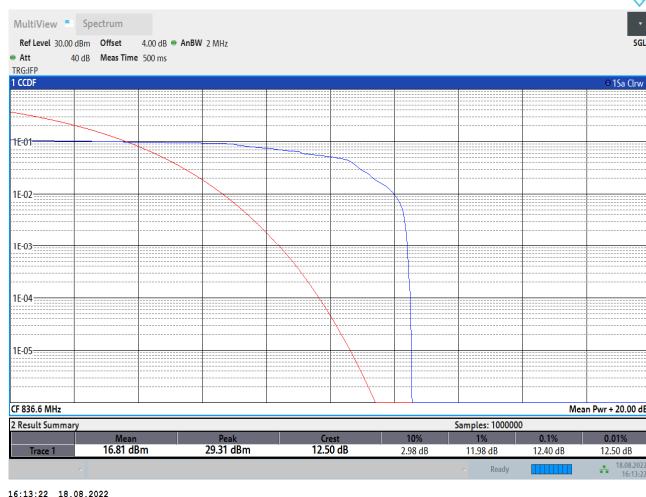
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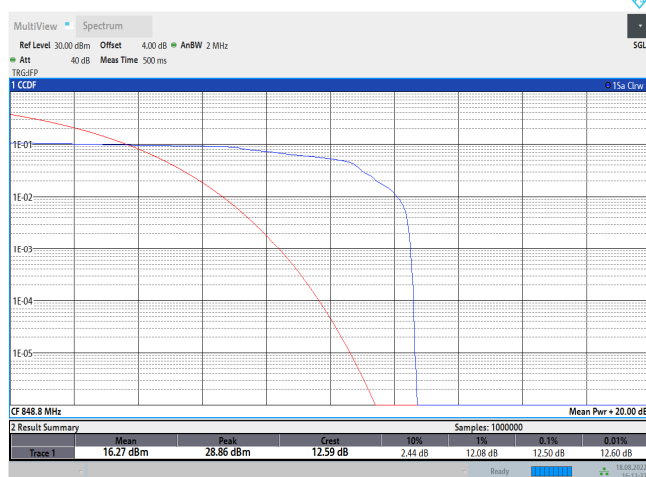
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EGPRS850-251



16:13:32 18.08.2022



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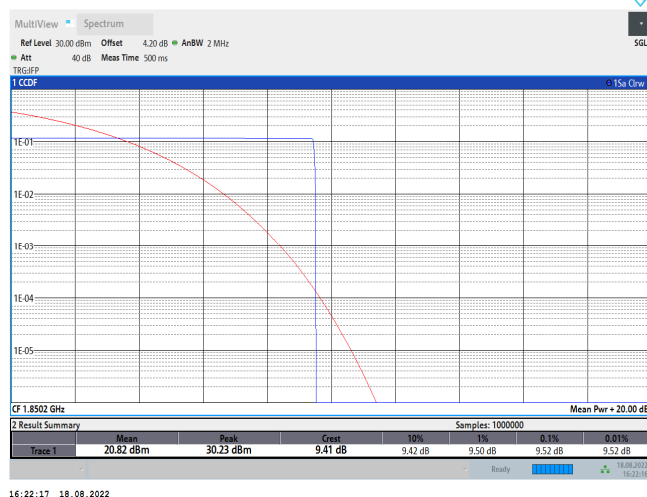
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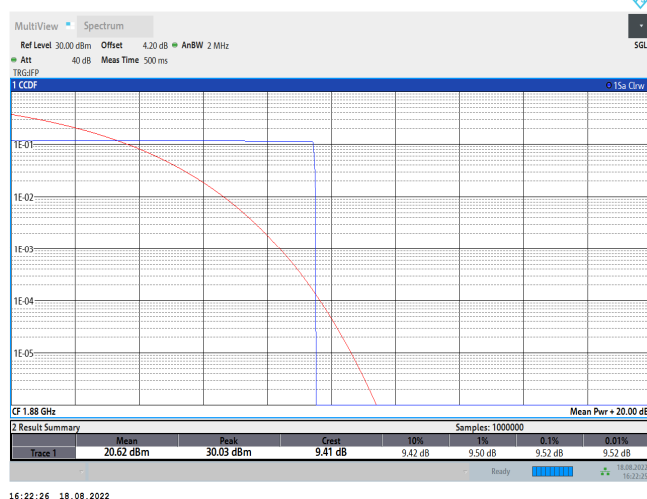
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GSM1900-661



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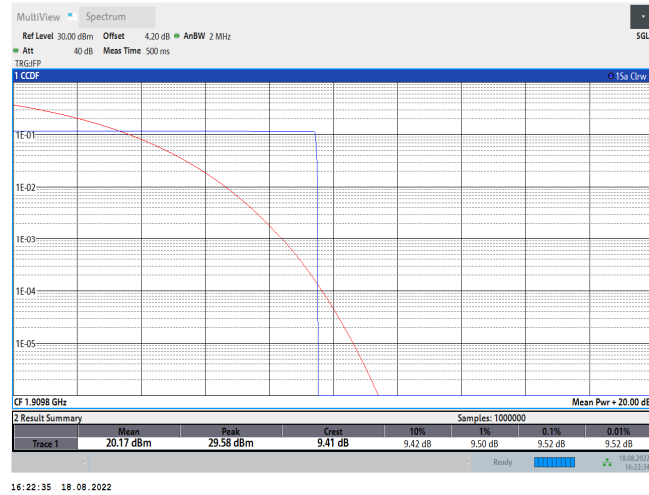
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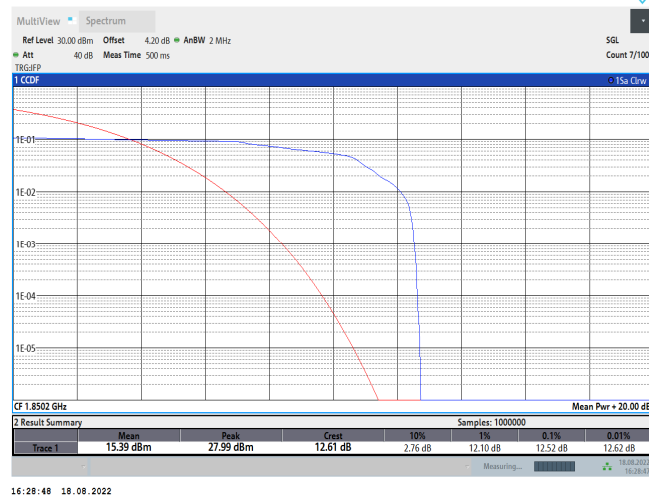
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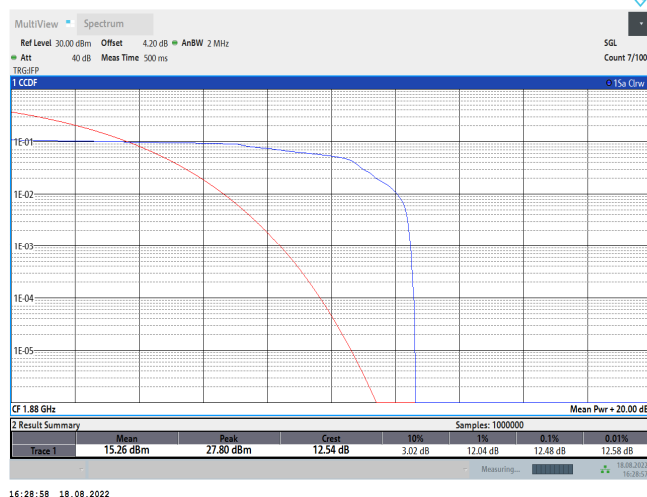
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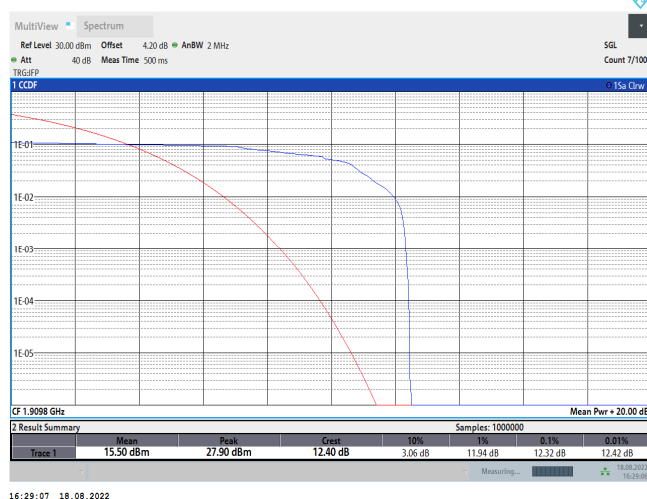
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EGPRS1900-661



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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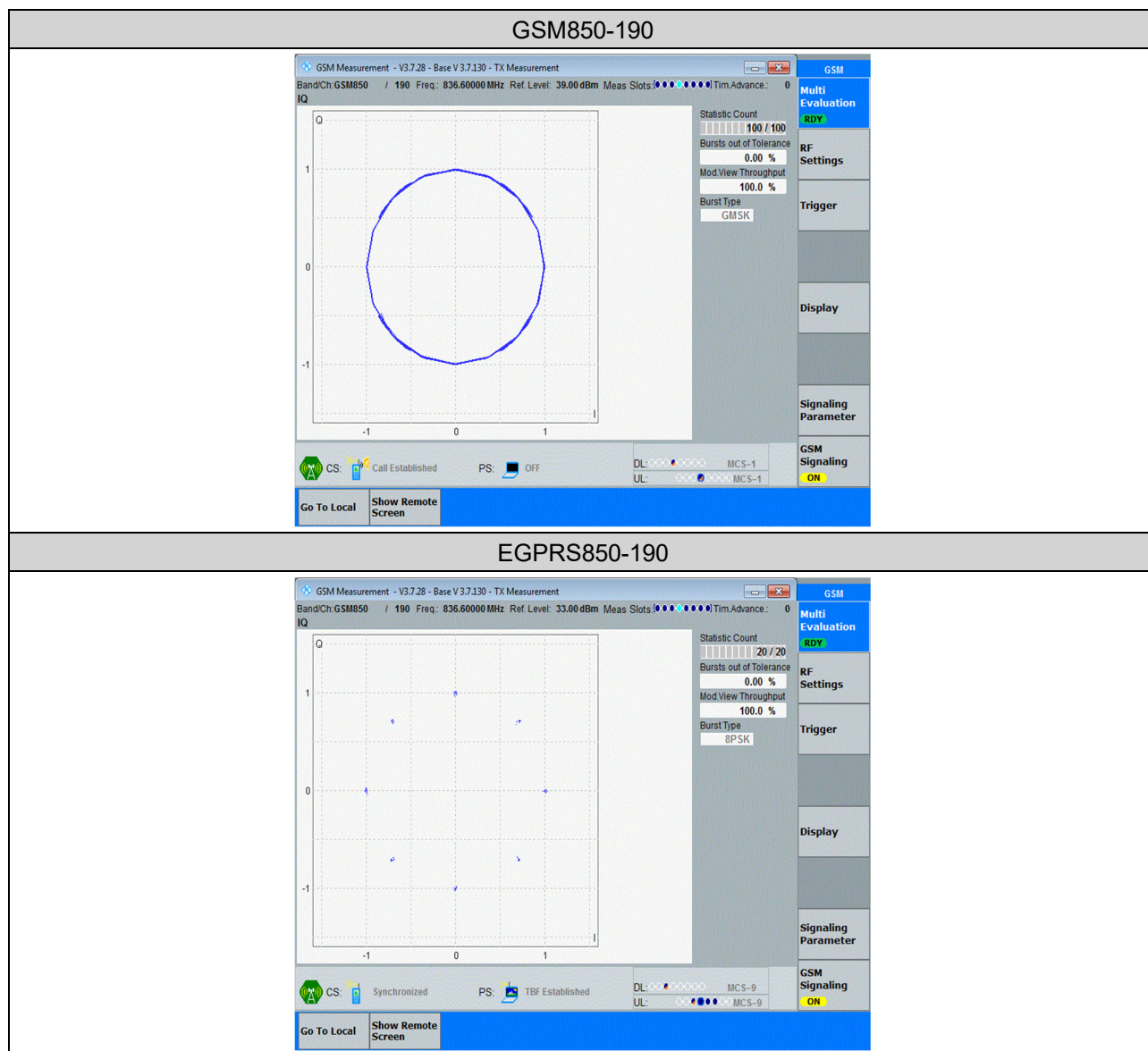
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Test Graphs



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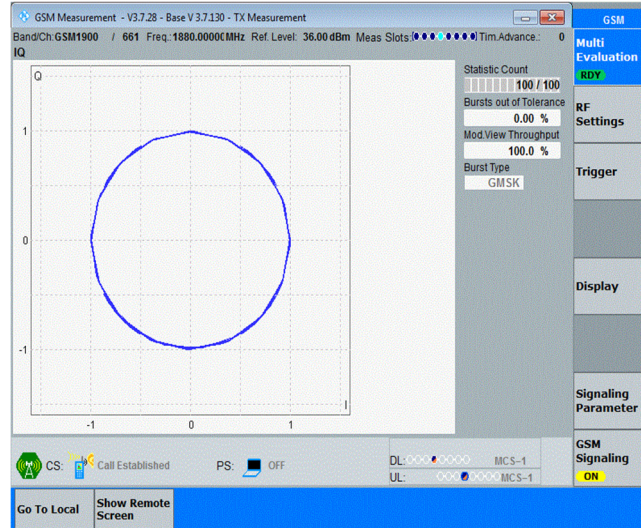
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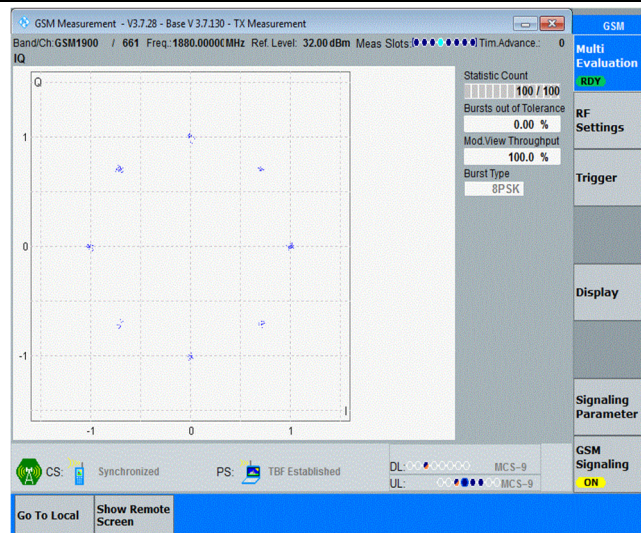
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GSM1900-661



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	0.245	0.32	---	PASS
GSM850	190	0.246	0.32	---	PASS
GSM850	251	0.245	0.32	---	PASS
EGPRS850	128	0.251	0.32	---	PASS
EGPRS850	190	0.252	0.32	---	PASS
EGPRS850	251	0.25	0.32	---	PASS
GSM1900	512	0.246	0.31	---	PASS
GSM1900	661	0.246	0.32	---	PASS
GSM1900	810	0.245	0.32	---	PASS
EGPRS1900	512	0.249	0.32	---	PASS
EGPRS1900	661	0.25	0.32	---	PASS
EGPRS1900	810	0.25	0.33	---	PASS



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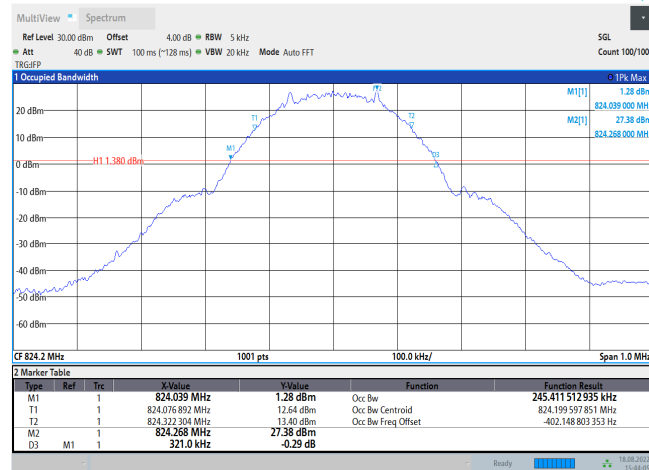
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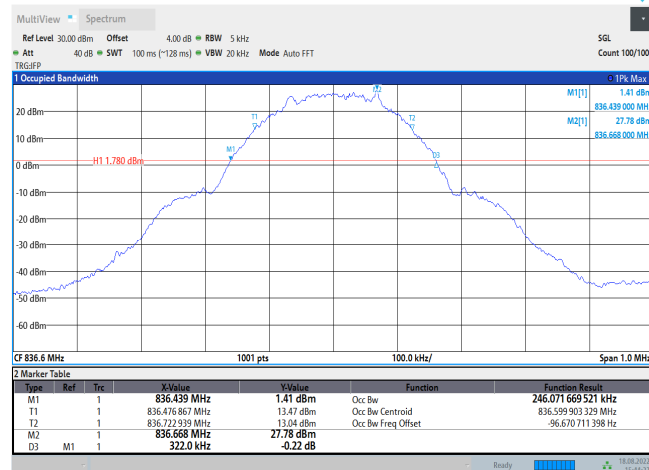
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Test Graphs

GSM850-128



GSM850-190



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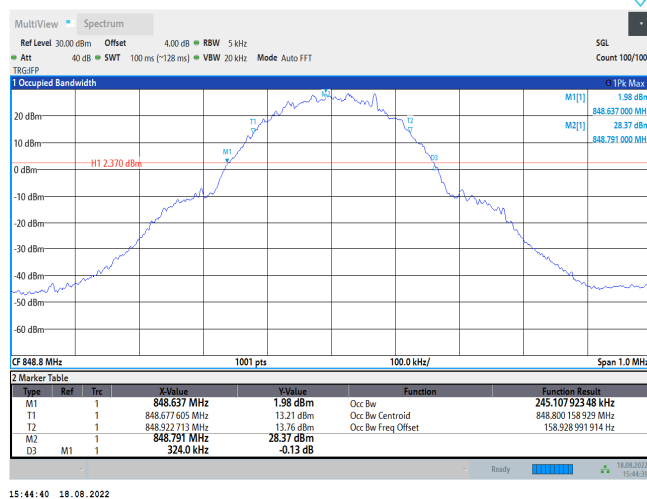
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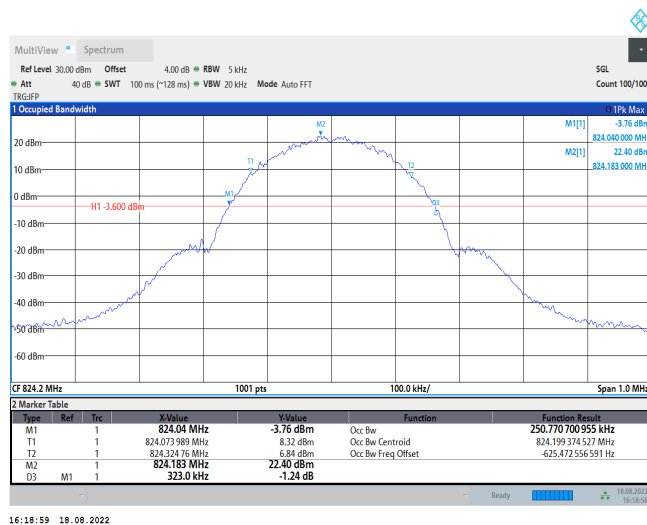
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GSM850-251



EGPRS850-128

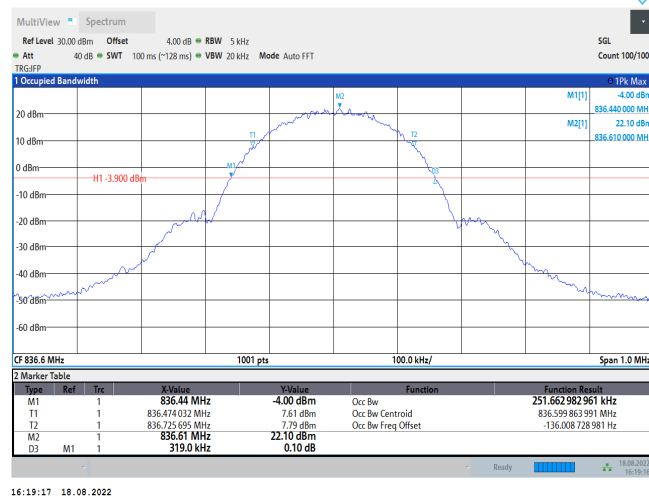


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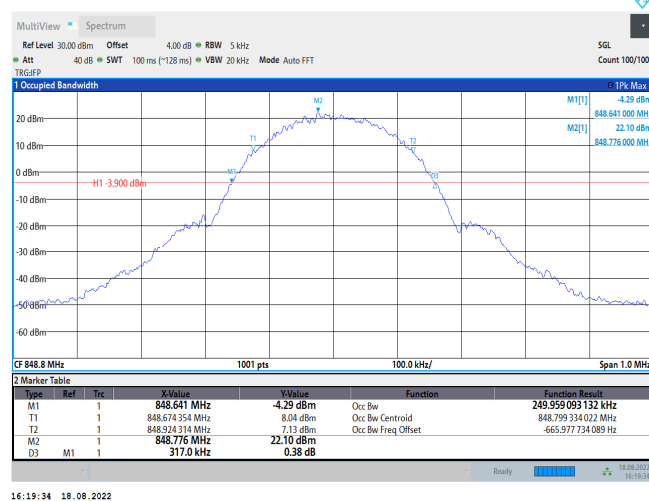
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EGPRS850-251



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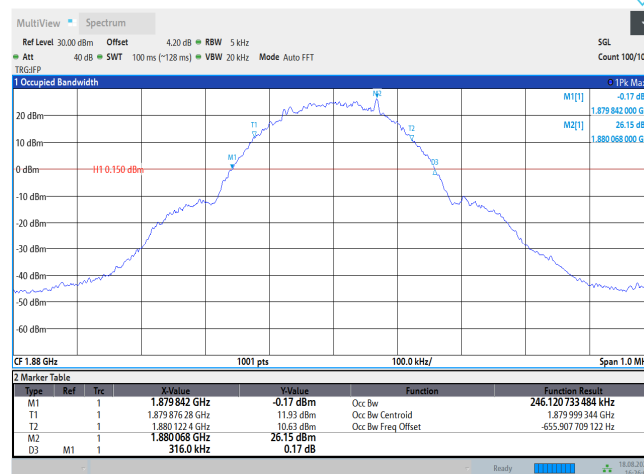
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GSM1900-661



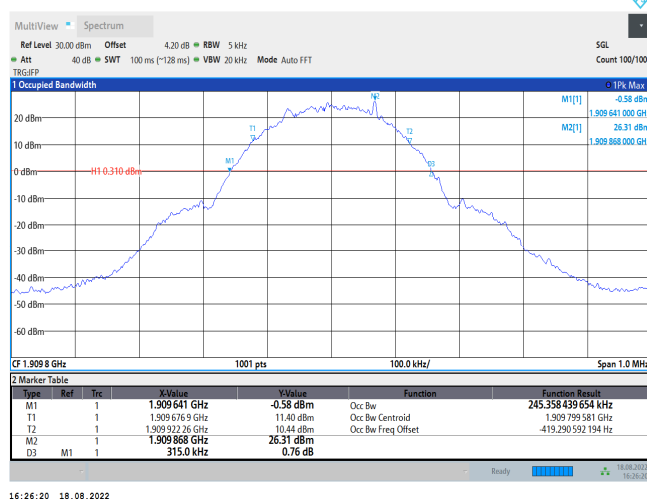
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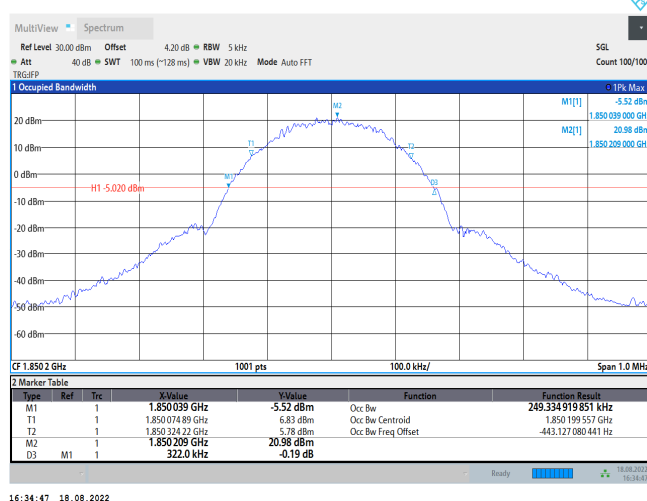
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GSM1900-810



EGPRS1900-512

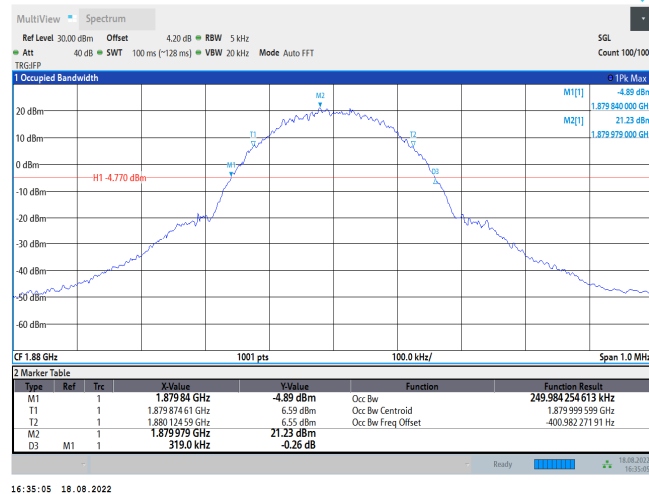


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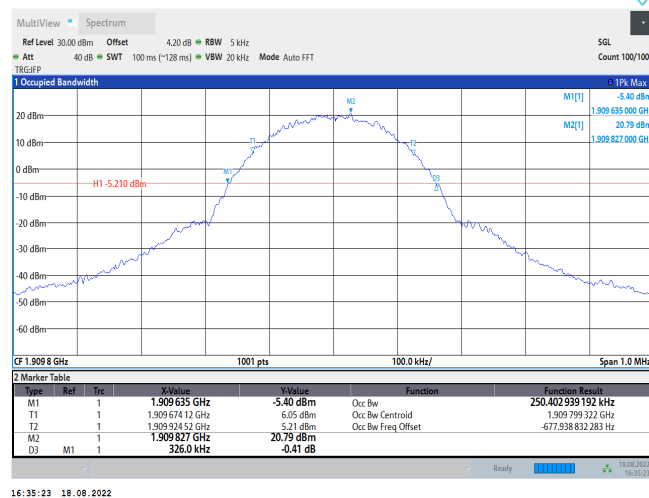
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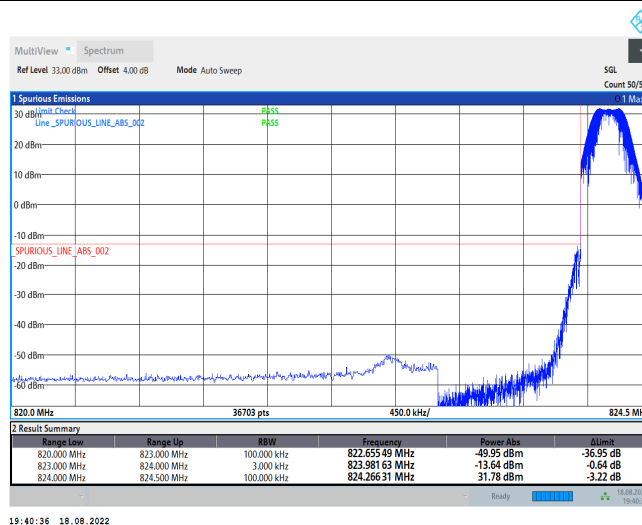
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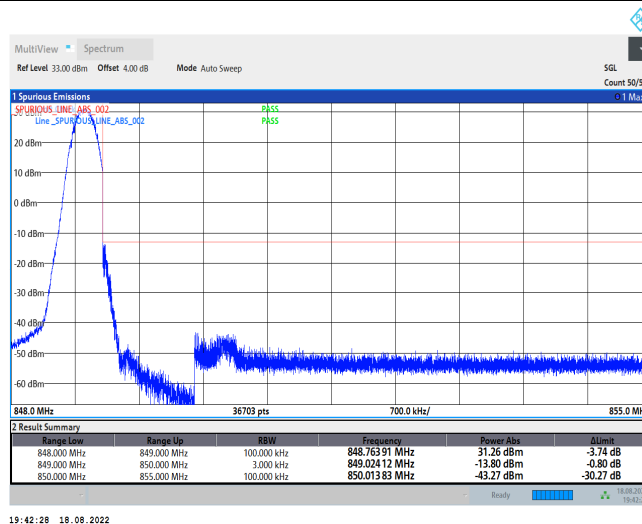
Band Edge

Test Graphs

GSM850-128



GSM850-251



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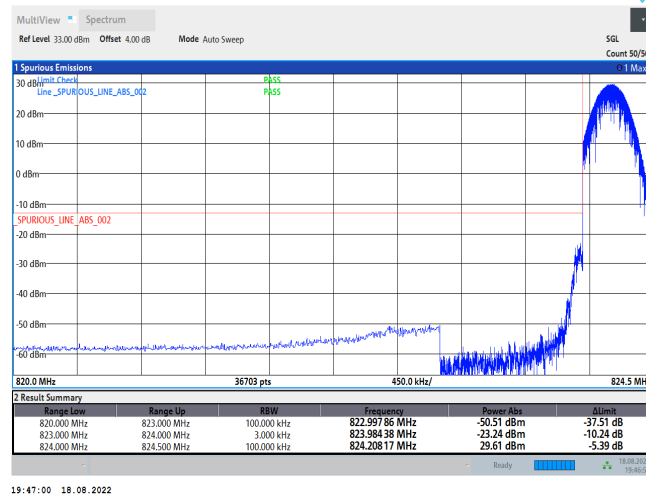
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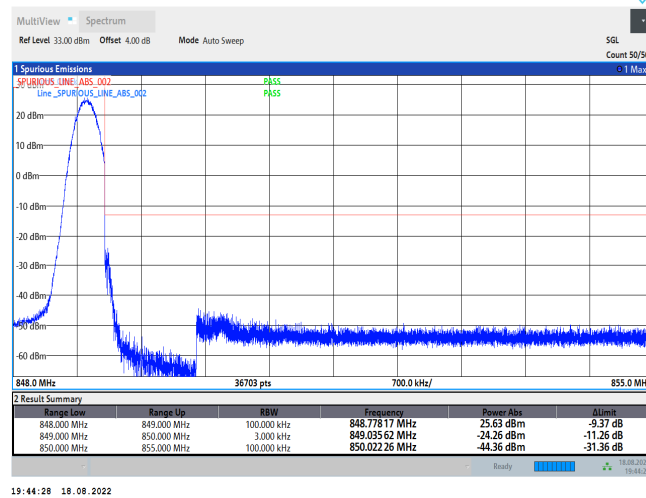
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EGPRS850-251



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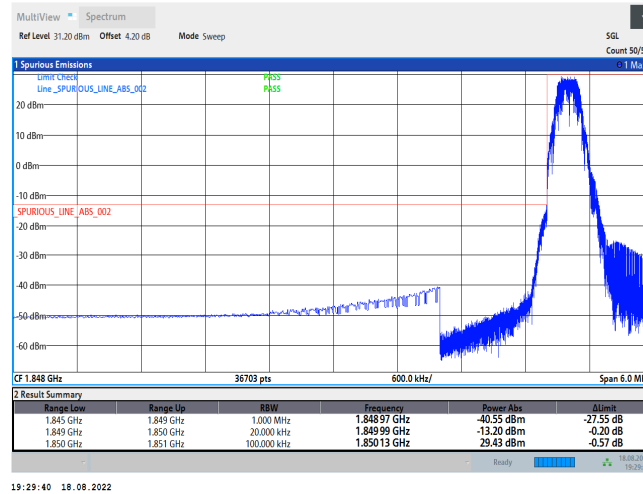
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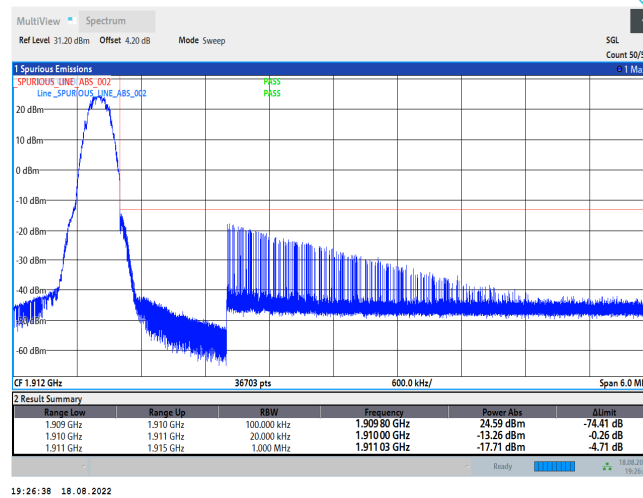
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GSM1900-512



GSM1900-810



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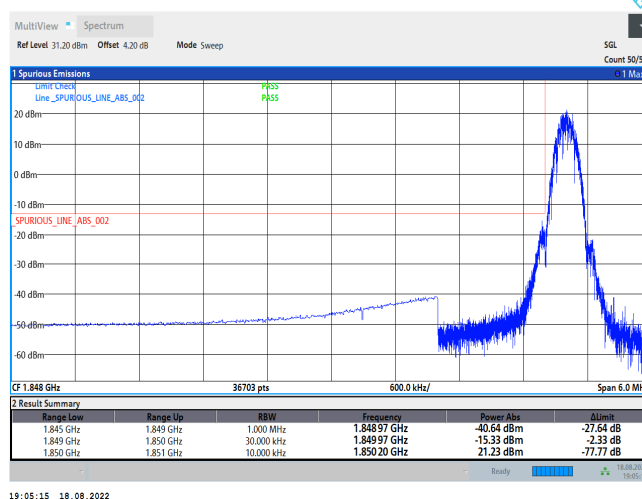
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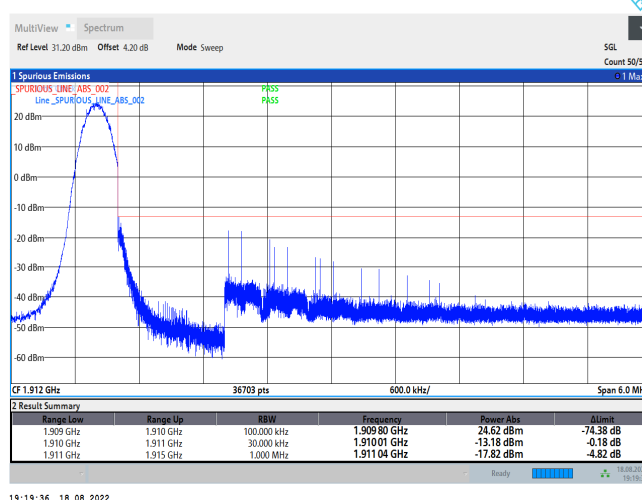
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EGPRS1900-810



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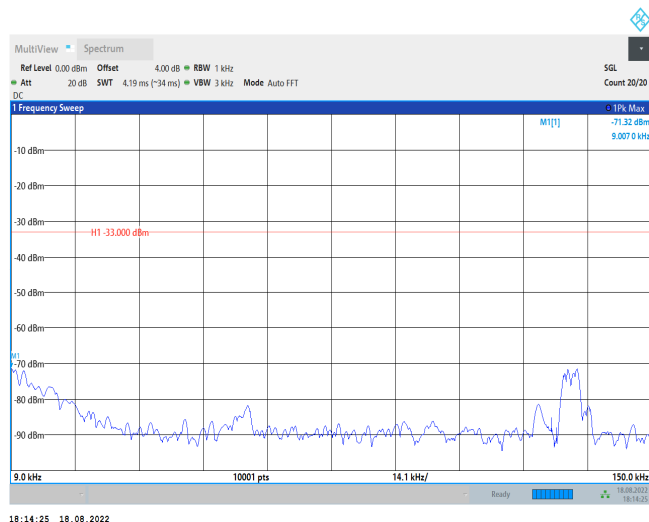
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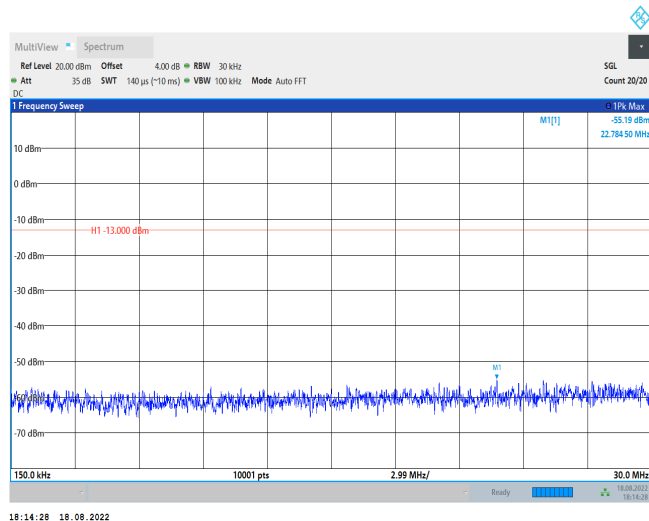
Conducted Spurious Emission

Test Graphs

GSM850-128-0.009~0.15MHz



GSM850-128-0.15~30MHz



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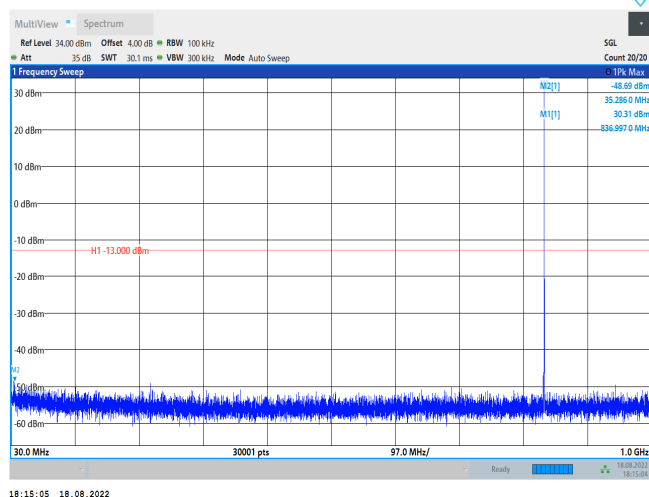
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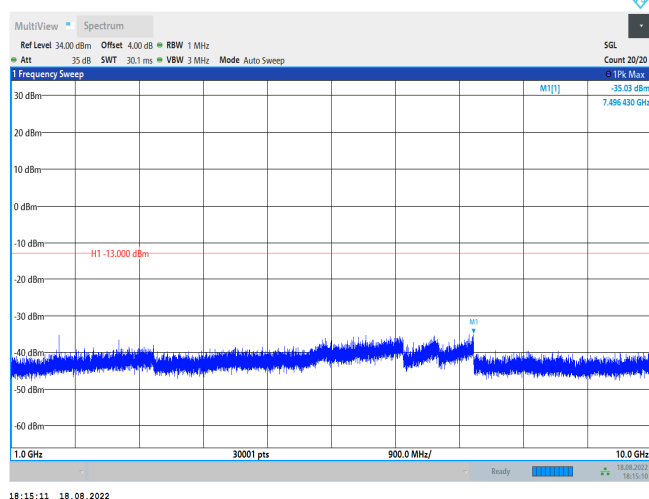
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GSM850-128-30~1000MHz



GSM850-128-1000~10000MHz



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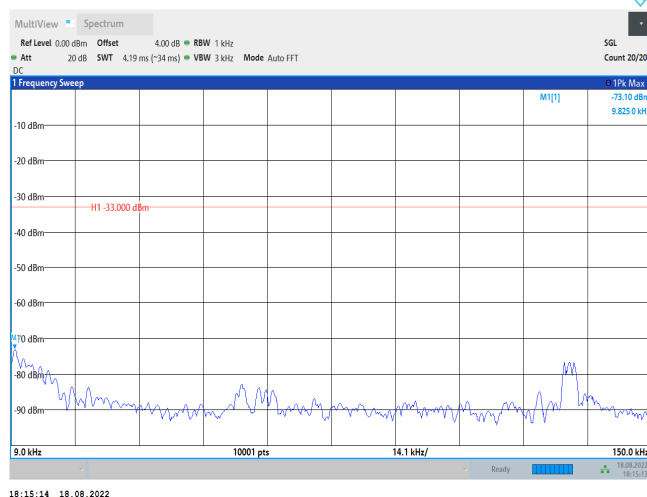
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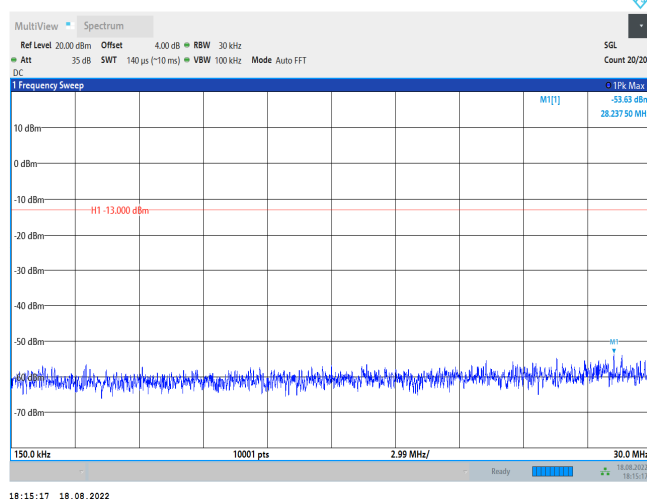
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GSM850-190-0.009~0.15MHz



GSM850-190-0.15~30MHz



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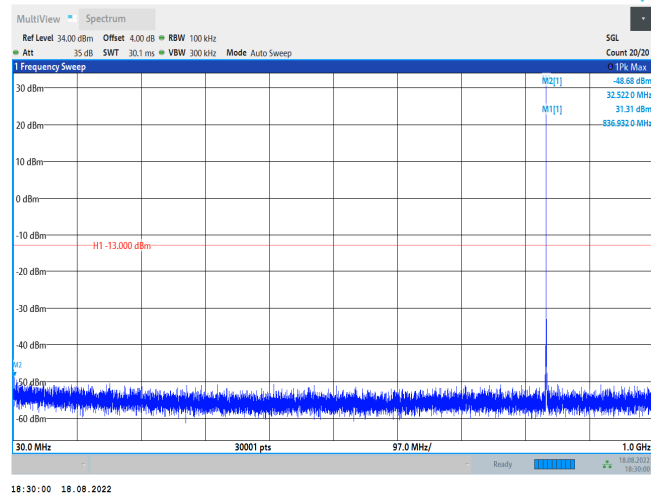
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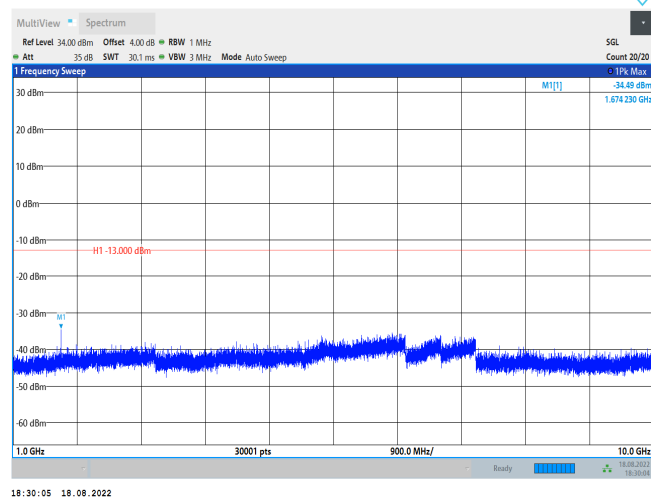
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GSM850-190-30~1000MHz



GSM850-190-1000~10000MHz



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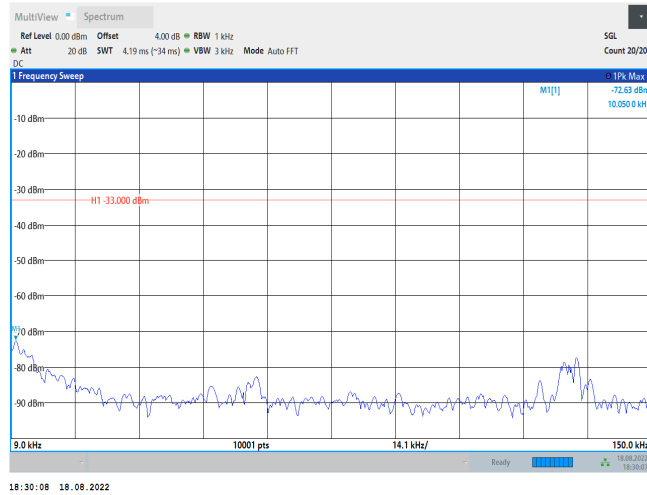
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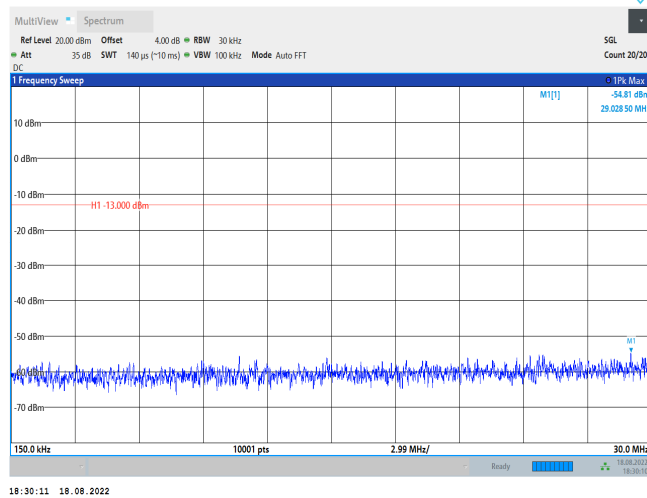
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GSM850-251-0.009~0.15MHz



GSM850-251-0.15~30MHz



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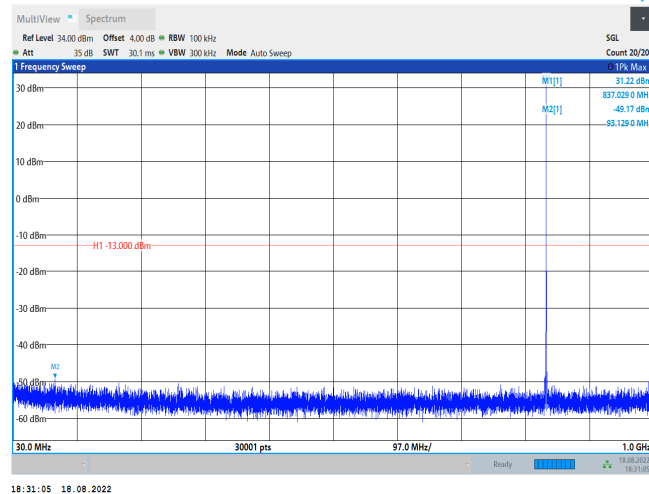
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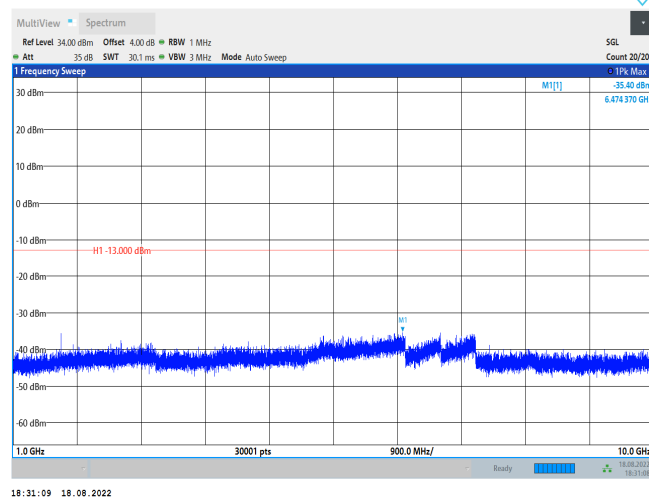
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GSM850-251-30~1000MHz



GSM850-251-1000~10000MHz



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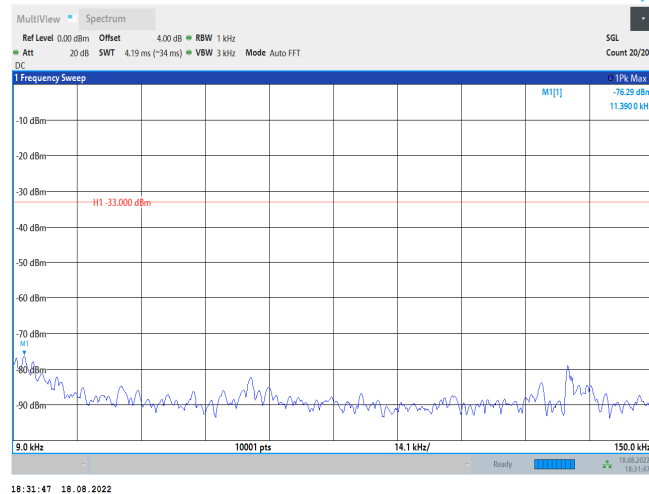
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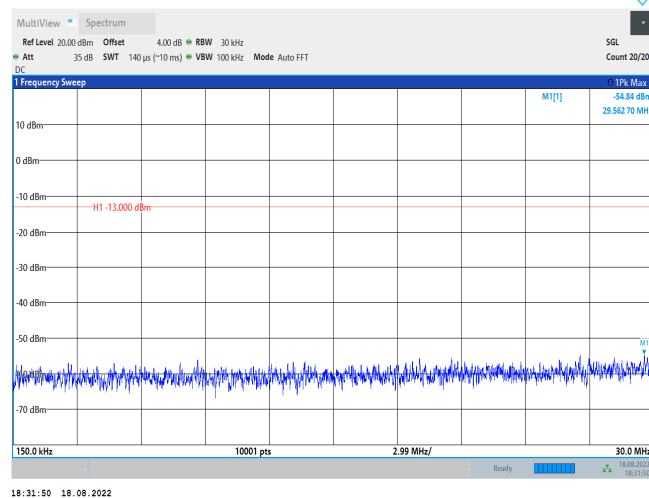
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EGPRS850-128-0.009~0.15MHz



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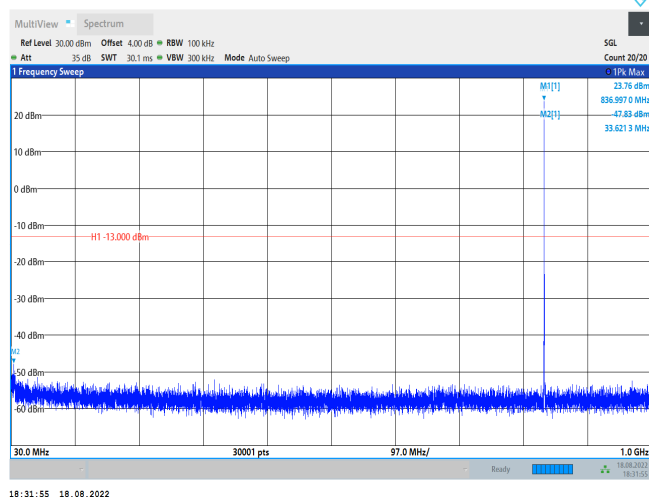
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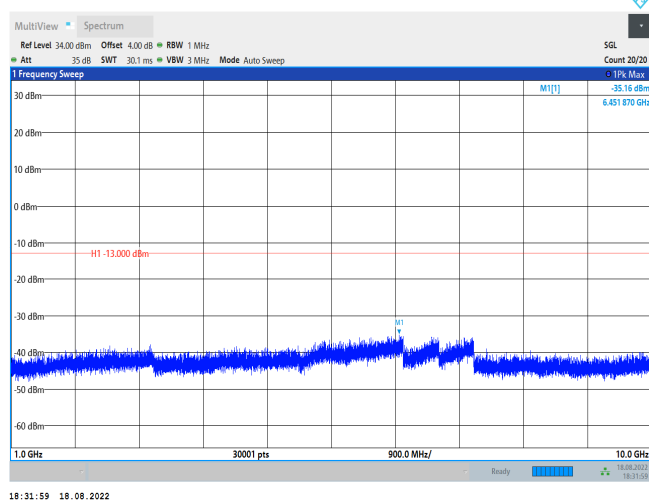
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EGPRS850-128-30~1000MHz



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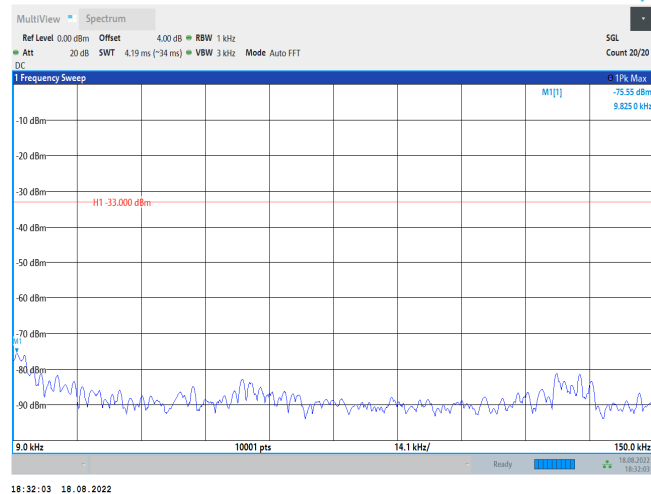
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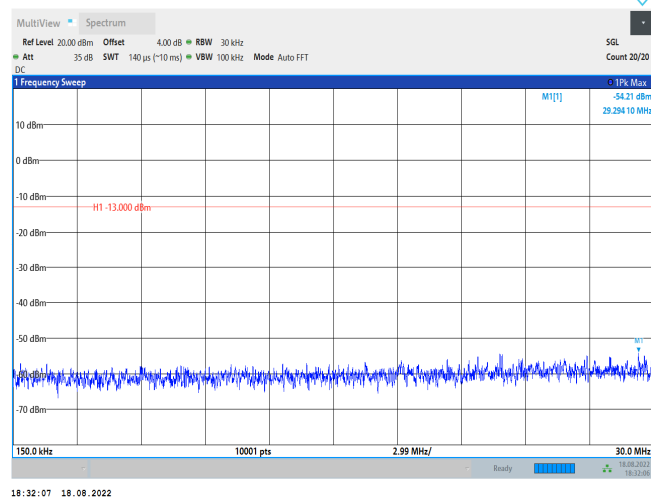
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EGPRS850-190-0.009~0.15MHz



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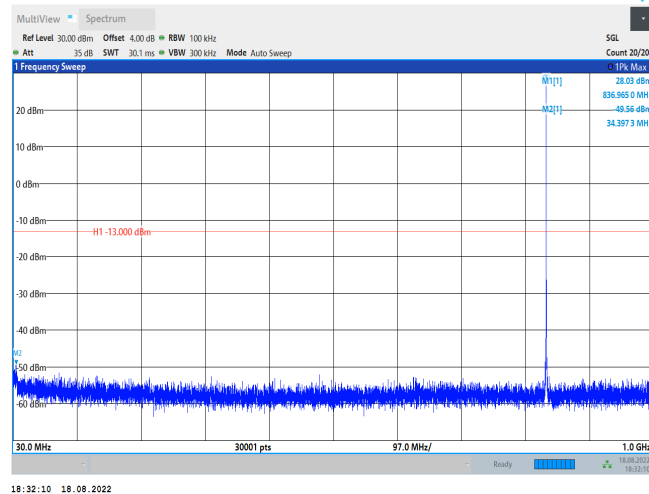
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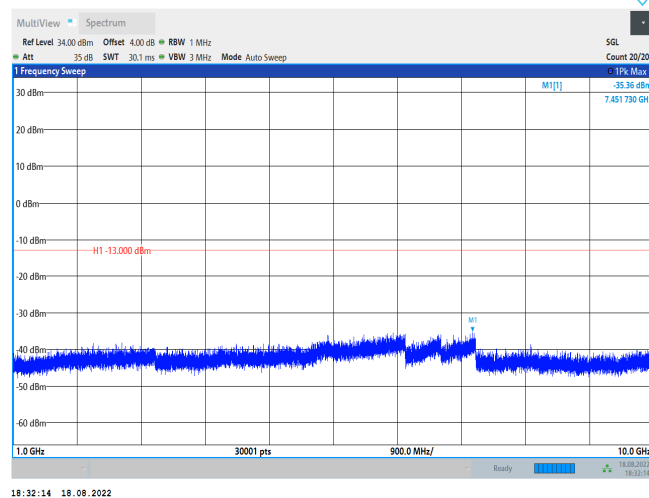
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EGPRS850-190-30~1000MHz



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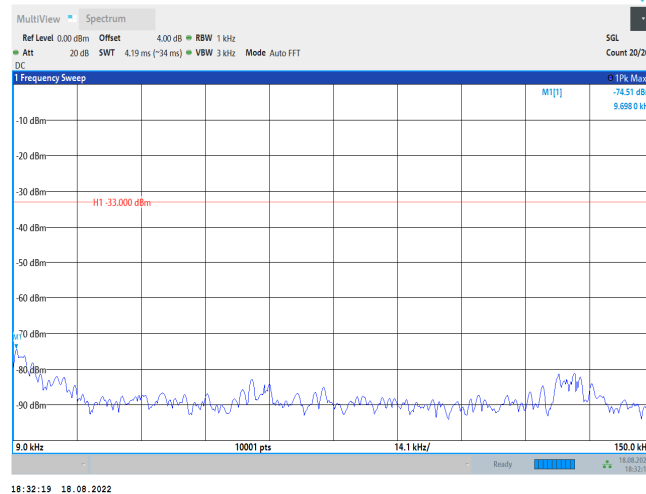
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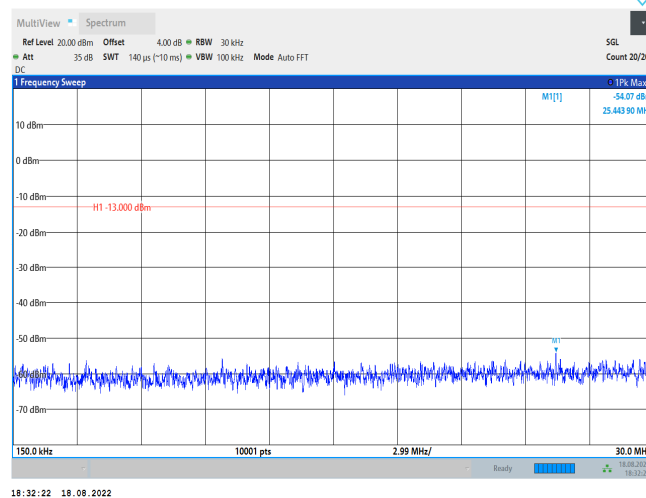
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EGPRS850-251-0.009~0.15MHz



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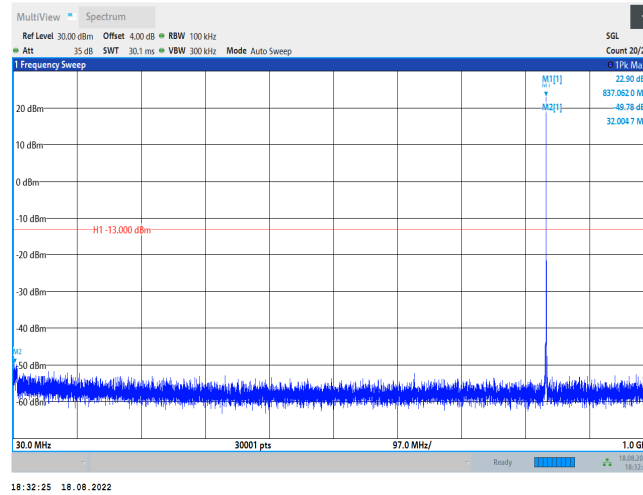
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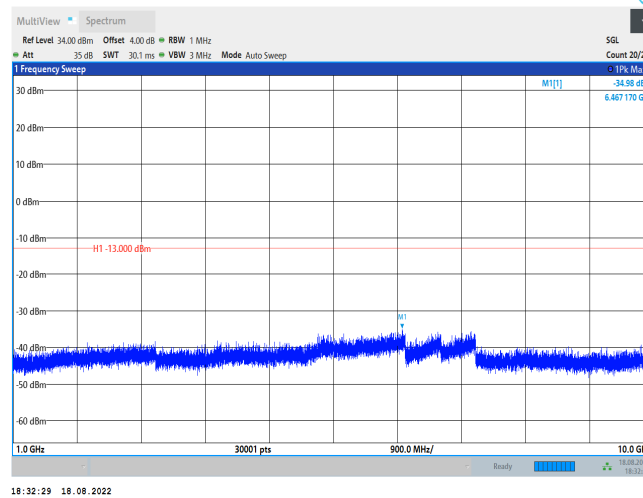
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EGPRS850-251-30~1000MHz



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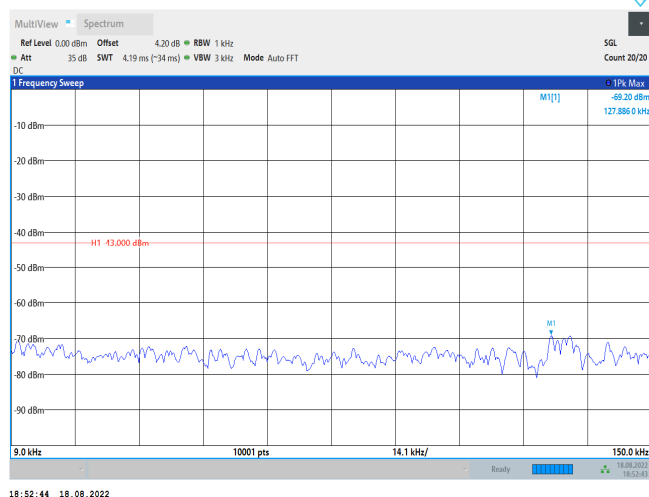
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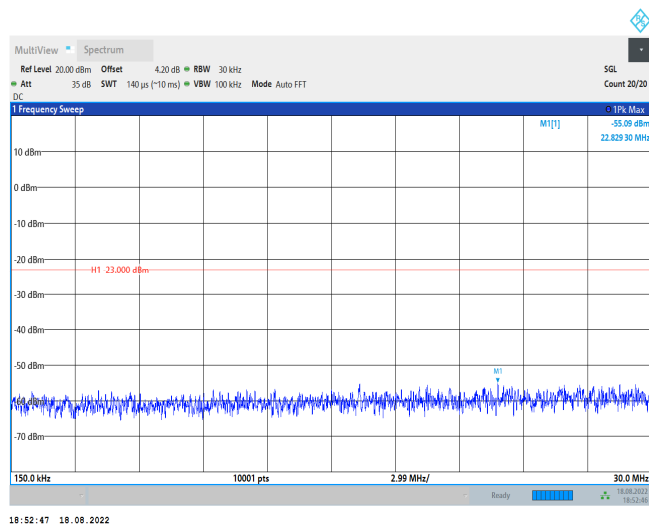
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GSM1900-512-0.009~0.15MHz



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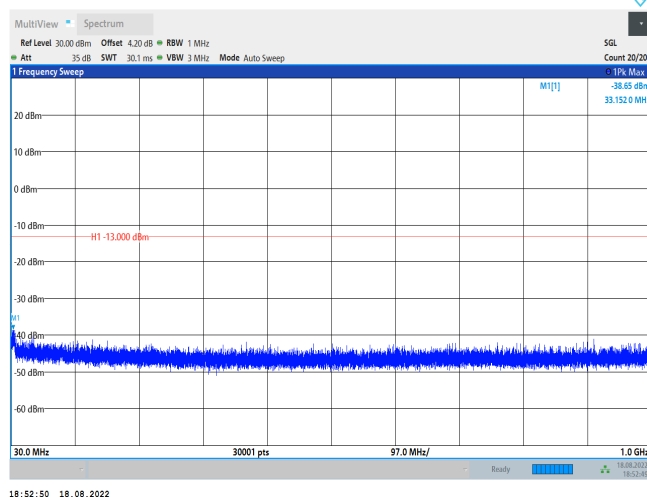
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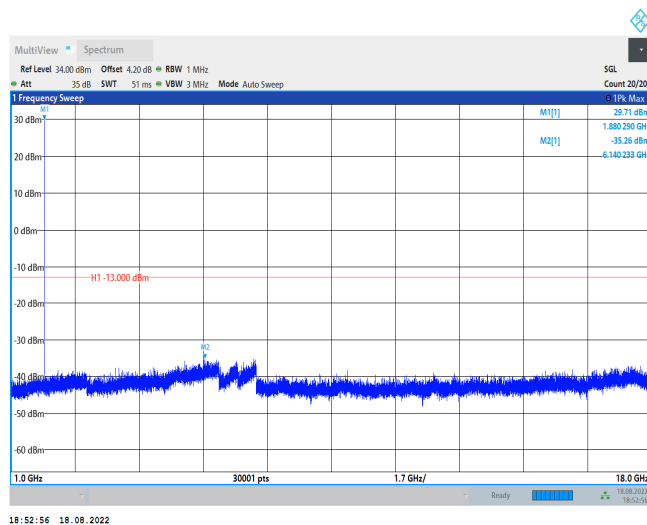
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GSM1900-512-30~1000MHz



GSM1900-512-1000~18000MHz



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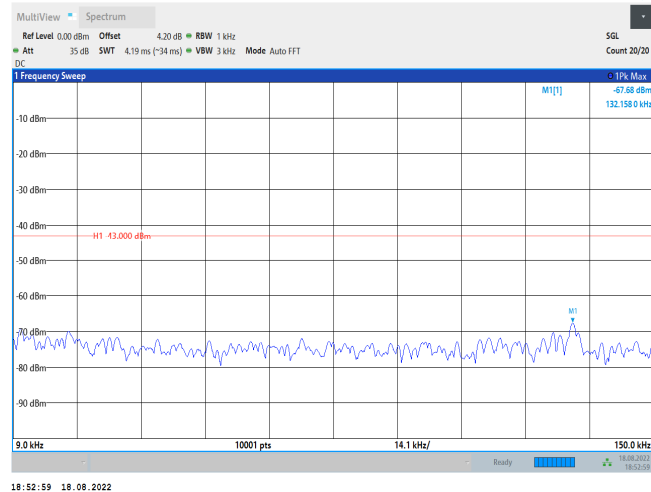
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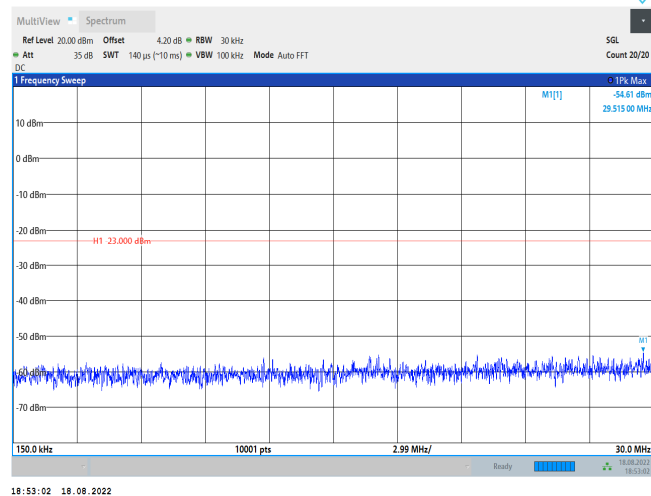
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GSM1900-661-0.009~0.15MHz



GSM1900-661-0.15~30MHz



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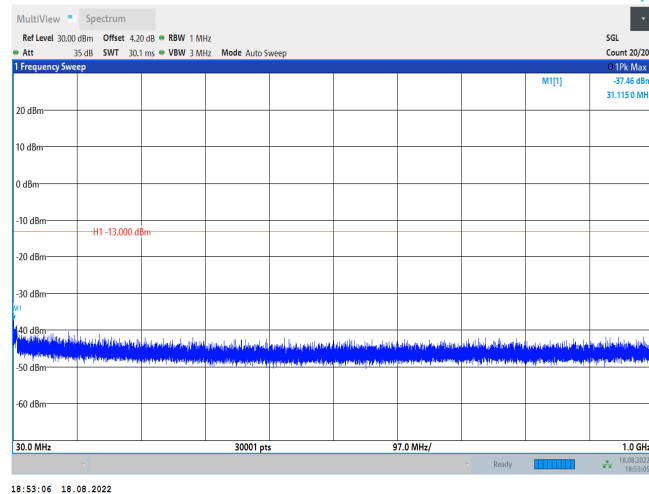
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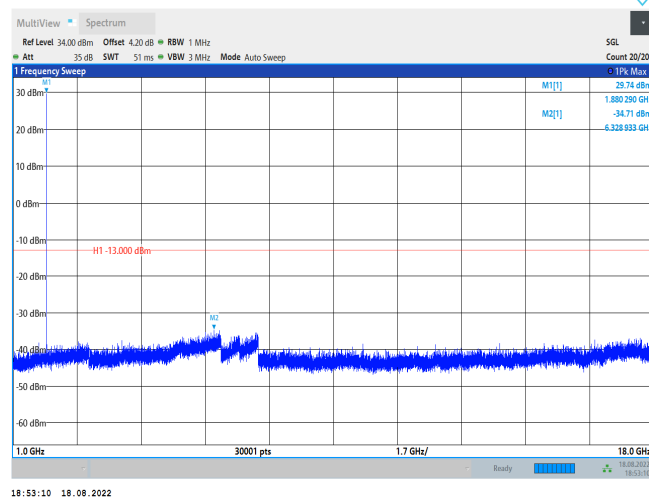
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GSM1900-661-30~1000MHz



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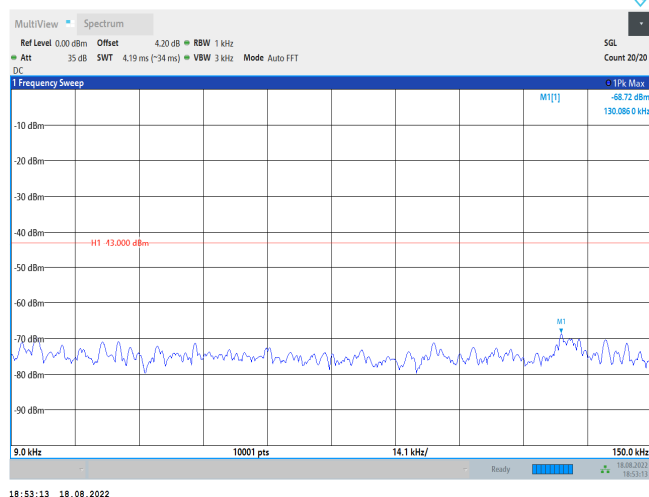
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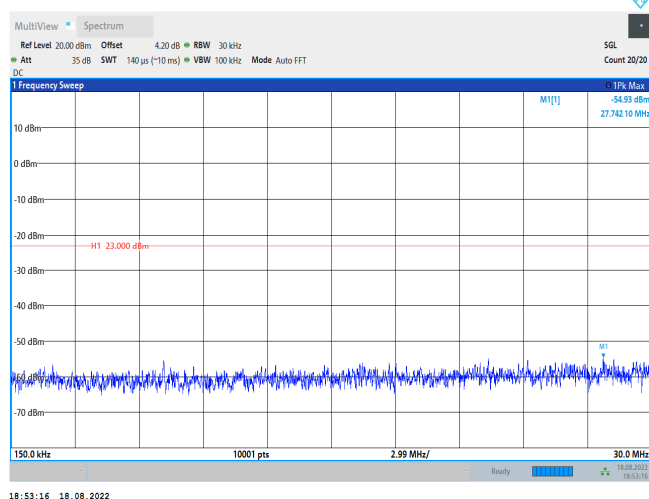
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GSM1900-810-0.009~0.15MHz



GSM1900-810-0.15~30MHz



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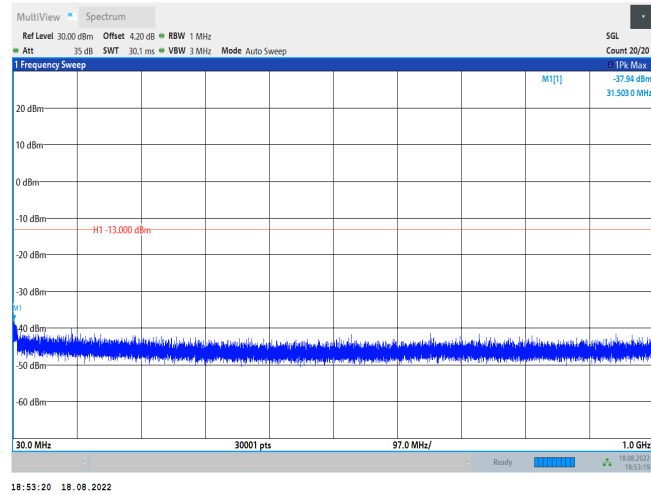
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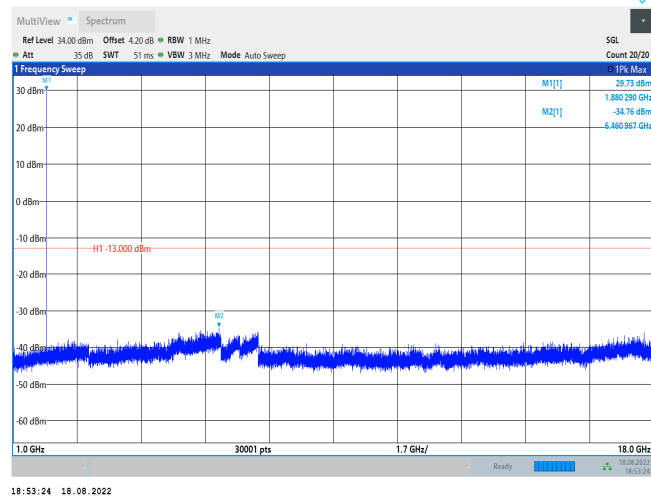
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GSM1900-810-30~1000MHz



GSM1900-810-1000~18000MHz



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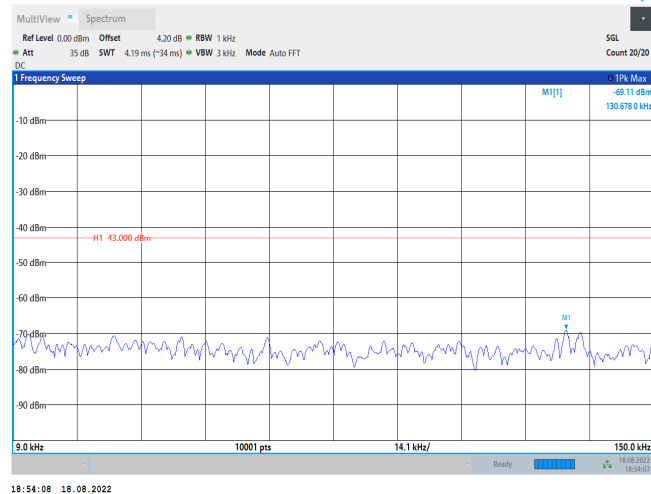
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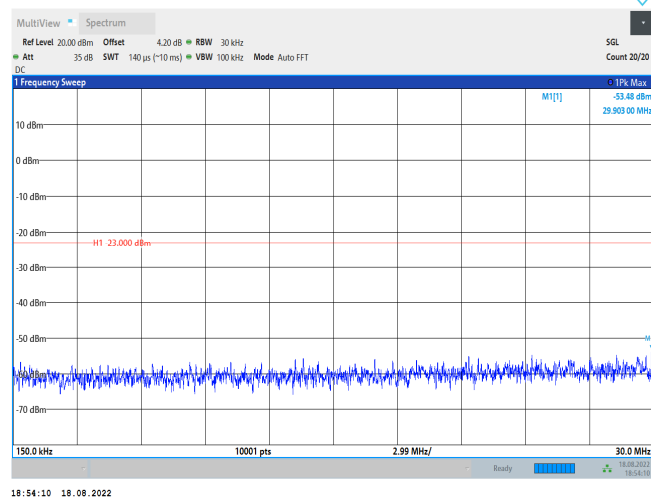
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EGPRS1900-512-0.009~0.15MHz



EGPRS1900-512-0.15~30MHz



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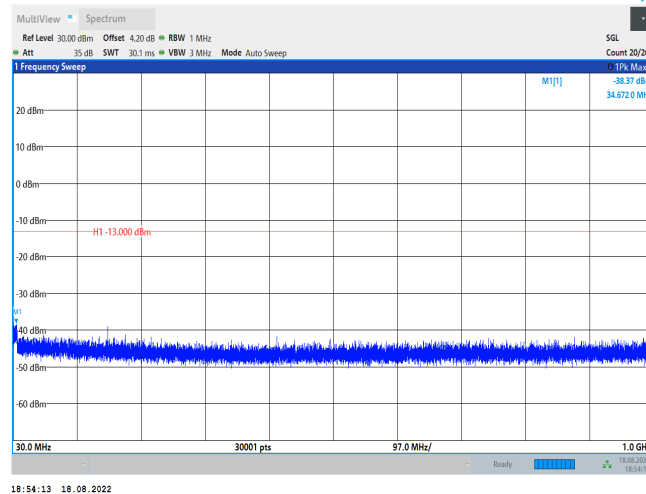
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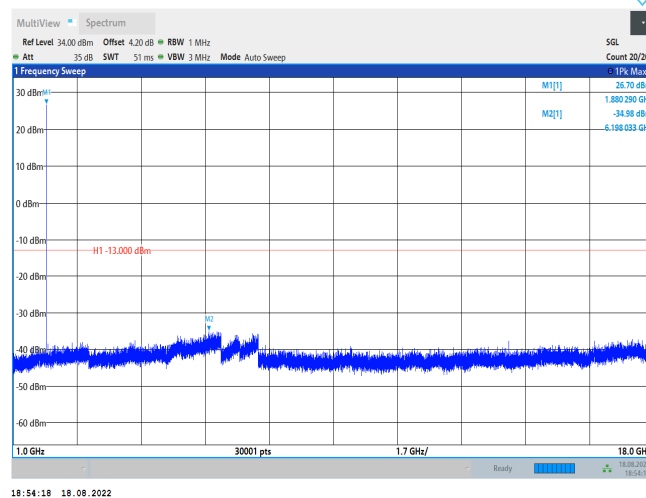
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EGPRS1900-512-30~1000MHz



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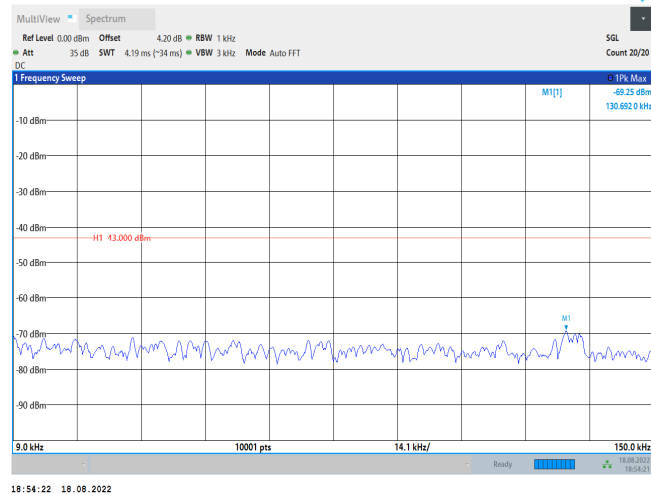
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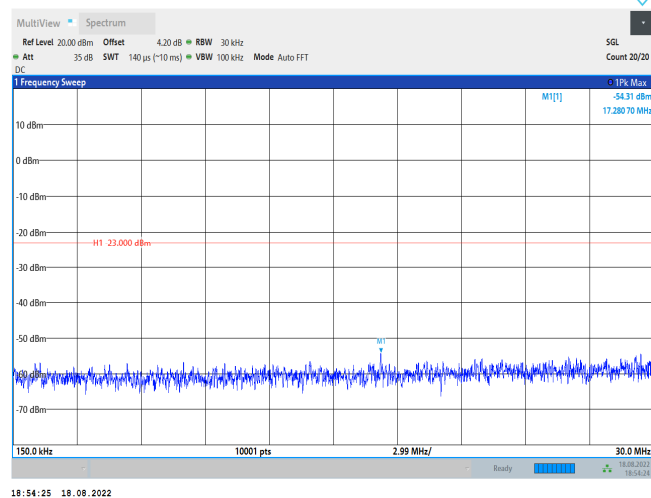
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EGPRS1900-661-0.009~0.15MHz



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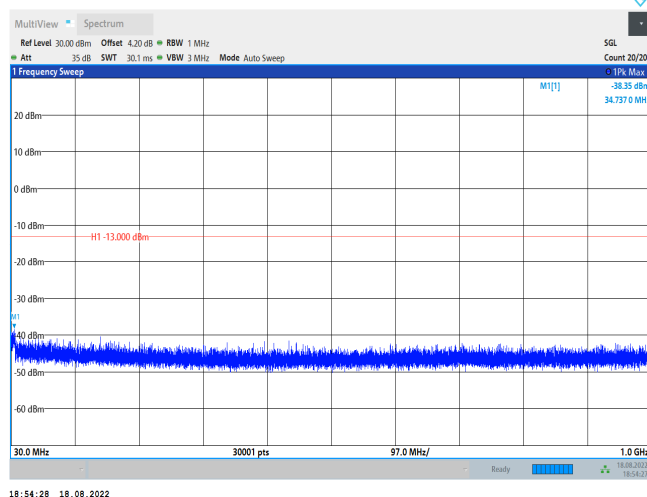
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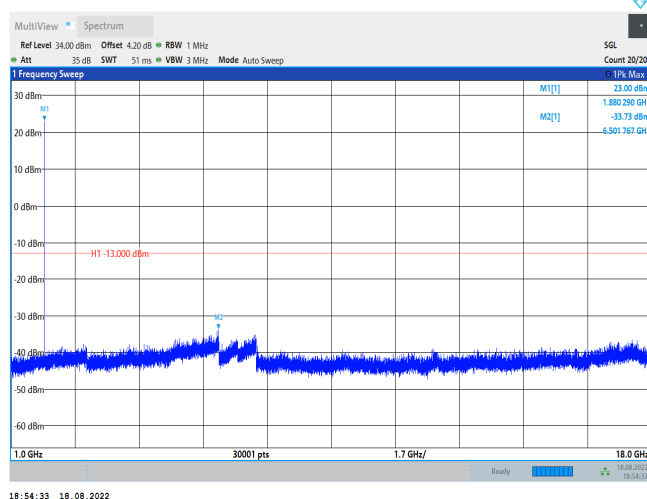
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EGPRS1900-661-30~1000MHz



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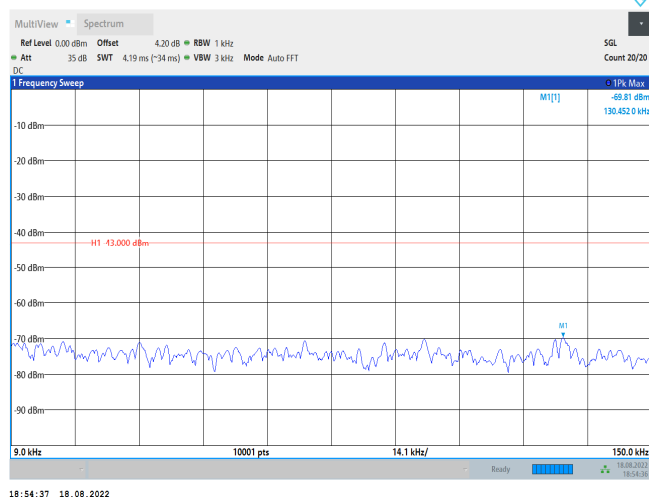
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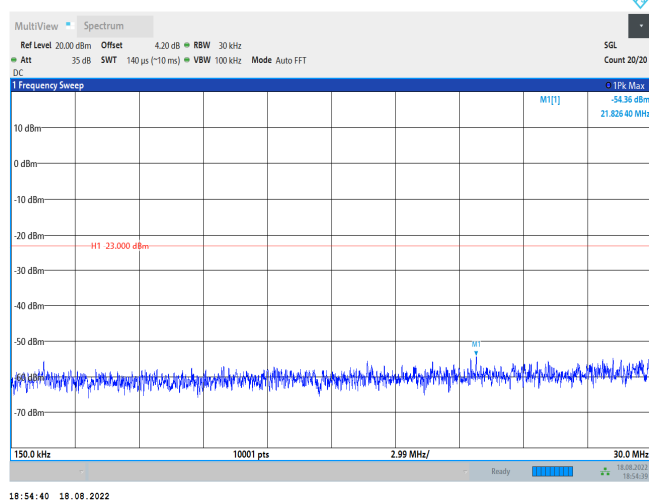
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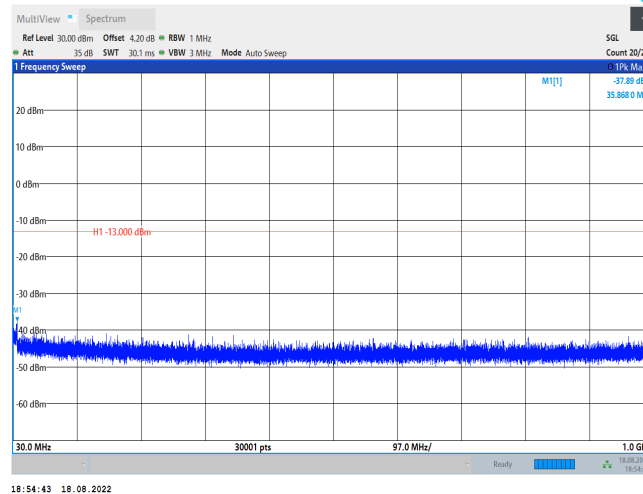
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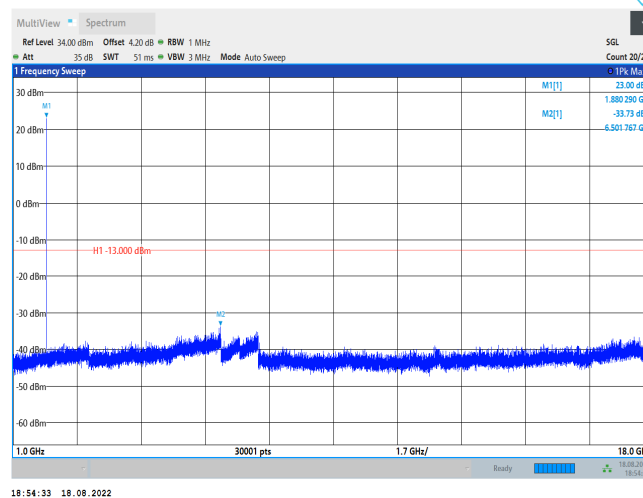
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EGPRS1900-810-30~1000MHz



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Field Strength of Spurious Radiation**Test Band = GSM1900_ TM1****Test Channel = Low**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3700.4000	48.41	-45.50	29.97	-62.38	-13.00	49.38	126	5	Horizontal
2	5550.6000	47.46	-45.15	32.97	-59.99	-13.00	46.99	251	329	Horizontal
3	7400.8000	43.38	-43.41	36.49	-58.80	-13.00	45.80	148	115	Horizontal
4	9251.0000	34.88	-40.23	38.38	-62.24	-13.00	49.24	175	176	Horizontal
5	11101.2000	29.09	-37.96	39.09	-65.04	-13.00	52.04	136	329	Horizontal
6	15159.75	31.71	-34.33	39.00	-58.88	-13.00	45.88	291	70	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	3700.4000	47.56	-45.50	29.97	-63.23	-13.00	50.23	215	0	Vertical
2	5550.6000	46.95	-45.15	32.97	-60.50	-13.00	47.50	254	330	Vertical
3	7400.8000	43.73	-43.41	36.49	-58.45	-13.00	45.45	133	268	Vertical
4	9251.0000	35.03	-40.23	38.38	-62.09	-13.00	49.09	261	116	Vertical
5	11101.2000	29.54	-37.96	39.09	-64.59	-13.00	51.59	296	0	Vertical
6	13750.5	32.80	-36.28	40.01	-58.73	-13.00	45.73	175	85	Vertical



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Test Band = GSM1900_ TM1

Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760.0000	47.71	-45.75	30.19	-63.12	-13.00	50.12	218	344	Horizontal
2	5640.0000	46.48	-44.98	33.17	-60.60	-13.00	47.60	145	55	Horizontal
3	7520.0000	43.64	-43.10	36.43	-58.29	-13.00	45.29	191	101	Horizontal
4	9400.0000	38.68	-39.83	38.49	-57.92	-13.00	44.92	172	0	Horizontal
5	11280.0000	31.87	-37.41	39.11	-61.69	-13.00	48.69	132	162	Horizontal
6	13917	31.80	-35.50	40.07	-58.89	-13.00	45.89	266	268	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	3760.0000	48.04	-45.75	30.19	-62.79	-13.00	49.79	102	178	Vertical
2	5640.0000	46.99	-44.98	33.17	-60.09	-13.00	47.09	145	58	Vertical
3	7520.0000	43.43	-43.10	36.43	-58.50	-13.00	45.50	128	301	Vertical
4	9400.0000	36.64	-39.83	38.49	-59.96	-13.00	46.96	179	2	Vertical
5	11280.0000	32.30	-37.41	39.11	-61.26	-13.00	48.26	191	13	Vertical
6	13831.5	32.56	-36.10	39.99	-58.81	-13.00	45.81	140	6	Vertical



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Test Band = GSM1900_ TM1

Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3819.6000	48.19	-45.99	30.38	-62.68	-13.00	49.68	254	284	Horizontal
2	7639.2000	42.29	-43.01	36.47	-59.51	-13.00	46.51	126	269	Horizontal
3	9549.0000	37.94	-39.96	38.45	-58.82	-13.00	45.82	291	329	Horizontal
4	11458.8000	29.79	-37.33	39.04	-63.76	-13.00	50.76	216	162	Horizontal
5	12794.25	32.82	-36.82	39.62	-59.64	-13.00	46.64	233	145	Horizontal
6	16493.25	33.76	-33.88	37.91	-57.47	-13.00	44.47	201	344	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	3819.6000	47.80	-45.99	30.38	-63.07	-13.00	50.07	274	25	Vertical
2	7639.2000	42.11	-43.01	36.47	-59.69	-13.00	46.69	185	356	Vertical
3	9549.0000	37.18	-39.96	38.45	-59.58	-13.00	46.58	296	25	Vertical
4	11458.8000	31.52	-37.33	39.04	-62.03	-13.00	49.03	124	71	Vertical
5	13811.25	32.94	-36.29	39.97	-58.64	-13.00	45.64	263	42	Vertical
6	16422.75	35.30	-34.34	37.77	-56.54	-13.00	43.54	211	14	Vertical



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Test Band = GSM850_ TM1
Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4000	66.78	-48.22	25.37	-51.33	-13.00	38.33	162	94	Horizontal
2	2472.6000	56.65	-47.32	27.68	-58.25	-13.00	45.25	214	176	Horizontal
3	3296.8000	58.61	-46.67	29.56	-53.76	-13.00	40.76	222	256	Horizontal
4	4121.0000	52.65	-45.91	30.98	-57.54	-13.00	44.54	231	360	Horizontal
5	4945.2000	58.24	-45.69	32.73	-49.98	-13.00	36.98	265	256	Horizontal
6	8436.5714	44.11	-41.69	37.41	-55.43	-13.00	42.43	254	150	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	66.08	-48.22	25.37	-52.03	-13.00	39.03	215	13	Vertical
2	2472.6000	53.82	-47.32	27.68	-61.08	-13.00	48.08	148	264	Vertical
3	3296.8000	54.58	-46.67	29.56	-57.79	-13.00	44.79	196	184	Vertical
4	4121.0000	56.78	-45.91	30.98	-53.41	-13.00	40.41	142	225	Vertical
5	4945.2000	52.40	-45.69	32.73	-55.82	-13.00	42.82	172	264	Vertical
6	7418.2857	47.91	-43.29	36.48	-54.16	-13.00	41.16	136	293	Vertical



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Test Band = GSM850_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8000	51.05	-48.19	25.38	-67.02	-13.00	54.02	154	360	Horizontal
2	2509.2000	51.30	-47.24	27.80	-63.39	-13.00	50.39	261	26	Horizontal
3	3345.6000	49.44	-46.62	29.50	-62.94	-13.00	49.94	199	106	Horizontal
4	4182.0000	48.45	-45.95	31.07	-61.69	-13.00	48.69	178	93	Horizontal
5	5018.4000	48.66	-45.73	32.89	-59.44	-13.00	46.44	142	360	Horizontal
6	7418.2857	50.42	-43.29	36.48	-51.65	-13.00	38.65	136	253	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	1672.8000	51.11	-48.19	25.38	-66.96	-13.00	53.96	255	0	Vertical
2	2509.2000	50.17	-47.24	27.80	-64.52	-13.00	51.52	146	267	Vertical
3	3345.6000	50.14	-46.62	29.50	-62.24	-13.00	49.24	122	334	Vertical
4	4182.0000	49.19	-45.95	31.07	-60.95	-13.00	47.95	139	3	Vertical
5	5018.4000	48.15	-45.73	32.89	-59.95	-13.00	46.95	179	160	Vertical
6	8242.2857	45.79	-42.18	37.13	-54.51	-13.00	41.51	180	240	Vertical



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Test Band = GSM850_TM1

Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6000	50.71	-48.16	25.39	-67.32	-13.00	54.32	244	28	Horizontal
2	2546.4000	49.84	-47.11	27.92	-64.61	-13.00	51.61	156	28	Horizontal
3	3395.2000	50.21	-46.55	29.44	-62.16	-13.00	49.16	261	122	Horizontal
4	4244.0000	49.38	-45.88	31.19	-60.57	-13.00	47.57	174	359	Horizontal
5	5092.8000	46.29	-45.41	32.93	-61.45	-13.00	48.45	186	148	Horizontal
6	8035.4286	43.51	-42.16	37.02	-56.89	-13.00	43.89	124	81	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	1697.6000	51.24	-48.16	25.39	-66.79	-13.00	53.79	211	268	Vertical
2	2546.4000	51.05	-47.11	27.92	-63.40	-13.00	50.40	145	308	Vertical
3	3395.2000	50.20	-46.55	29.44	-62.17	-13.00	49.17	196	0	Vertical
4	4244.0000	49.71	-45.88	31.19	-60.24	-13.00	47.24	258	254	Vertical
5	5092.8000	48.28	-45.41	32.93	-59.46	-13.00	46.46	147	213	Vertical
6	8482.2857	43.40	-41.70	37.50	-56.05	-13.00	43.05	266	120	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	28.67	0.034270	±2.5	PASS
GSM850	190	VN	NT	27.84	0.033278	±2.5	PASS
GSM850	190	VH	NT	24.76	0.029596	±2.5	PASS
EGPRS850	190	VL	NT	11.84	0.014153	±2.5	PASS
EGPRS850	190	VN	NT	10.85	0.012969	±2.5	PASS
EGPRS850	190	VH	NT	10.54	0.012599	±2.5	PASS

Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	VL	NT	16.24	0.008638	PASS
GSM1900	661	VN	NT	15.49	0.008239	PASS
GSM1900	661	VH	NT	16.34	0.008691	PASS
EGPRS1900	661	VL	NT	16.37	0.008707	PASS
EGPRS1900	661	VN	NT	13.71	0.007293	PASS
EGPRS1900	661	VH	NT	13.91	0.007399	PASS



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Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	28.68	0.034282	±2.5	PASS
GSM850	190	NV	-20	27.23	0.032548	±2.5	PASS
GSM850	190	NV	-10	25.91	0.030971	±2.5	PASS
GSM850	190	NV	0	28.77	0.034389	±2.5	PASS
GSM850	190	NV	10	24.34	0.029094	±2.5	PASS
GSM850	190	NV	20	27.64	0.033038	±2.5	PASS
GSM850	190	NV	30	28.91	0.034557	±2.5	PASS
GSM850	190	NV	40	27.61	0.033003	±2.5	PASS
GSM850	190	NV	50	30.11	0.035991	±2.5	PASS
EGPRS850	190	NV	-30	16.94	0.020249	±2.5	PASS
EGPRS850	190	NV	-20	10.72	0.012814	±2.5	PASS
EGPRS850	190	NV	-10	6.72	0.008033	±2.5	PASS
EGPRS850	190	NV	0	4.62	0.005522	±2.5	PASS
EGPRS850	190	NV	10	8.87	0.010602	±2.5	PASS
EGPRS850	190	NV	20	11.31	0.013519	±2.5	PASS
EGPRS850	190	NV	30	11.56	0.013818	±2.5	PASS
EGPRS850	190	NV	40	14.21	0.016985	±2.5	PASS
EGPRS850	190	NV	50	11.78	0.014081	±2.5	PASS



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Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	NV	-30	20.98	0.011160	PASS
GSM1900	661	NV	-20	15.84	0.008426	PASS
GSM1900	661	NV	-10	15.10	0.008032	PASS
GSM1900	661	NV	0	13.19	0.007016	PASS
GSM1900	661	NV	10	14.36	0.007638	PASS
GSM1900	661	NV	20	8.07	0.004293	PASS
GSM1900	661	NV	30	16.32	0.008681	PASS
GSM1900	661	NV	40	15.46	0.008223	PASS
GSM1900	661	NV	50	18.22	0.009691	PASS
EGPRS1900	661	NV	-30	17.12	0.009106	PASS
EGPRS1900	661	NV	-20	16.36	0.008702	PASS
EGPRS1900	661	NV	-10	16.00	0.008511	PASS
EGPRS1900	661	NV	0	18.97	0.010090	PASS
EGPRS1900	661	NV	10	16.16	0.008596	PASS
EGPRS1900	661	NV	20	19.63	0.010441	PASS
EGPRS1900	661	NV	30	14.99	0.007973	PASS
EGPRS1900	661	NV	40	17.55	0.009335	PASS
EGPRS1900	661	NV	50	20.07	0.010676	PASS

---End of Attachment---



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