

Report No.: XEWM2203000061RG01

Rev.: 01

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Appendix



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Power(dBm)	ERP	Limit(dBm)	Verdict
GSM850	128	32.44	29.61	38.5	PASS
GSM850	190	32.30	29.47	38.5	PASS
GSM850	251	32.12	29.29	38.5	PASS
Band	Channel	Power(dBm)	EIRP	Limit(dBm)	Verdict
GSM1900	512	29.62	31.23	33	PASS
GSM1900	661	29.84	31.45	33	PASS
GSM1900	810	30.36	31.97	33	PASS

Band	Channel	Slot	Power(dBm)	ERP	Limit (dBm)	Verdict
EGPRS850	128	1	26.41	23.58	38.5	PASS
EGPRS850	128	2	24.30	21.47	38.5	PASS
EGPRS850	128	3	22.12	19.29	38.5	PASS
EGPRS850	128	4	19.89	17.06	38.5	PASS
EGPRS850	190	1	26.04	23.21	38.5	PASS
EGPRS850	190	2	23.95	21.12	38.5	PASS
EGPRS850	190	3	21.82	18.99	38.5	PASS
EGPRS850	190	4	19.82	16.99	38.5	PASS
EGPRS850	251	1	25.85	23.02	38.5	PASS
EGPRS850	251	2	23.81	20.98	38.5	PASS
EGPRS850	251	3	21.67	18.84	38.5	PASS
EGPRS850	251	4	19.65	16.82	38.5	PASS



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Band	Channel	Slot	Power(dBm)	EIRP	Limit (dBm)	Verdict
EGPRS1900	512	1	25.53	27.14	33	PASS
EGPRS1900	512	2	23.02	24.63	33	PASS
EGPRS1900	512	3	21.52	23.13	33	PASS
EGPRS1900	512	4	20.33	21.94	33	PASS
EGPRS1900	661	1	25.40	27.01	33	PASS
EGPRS1900	661	2	22.84	24.45	33	PASS
EGPRS1900	661	3	21.31	22.92	33	PASS
EGPRS1900	661	4	20.27	21.88	33	PASS
EGPRS1900	810	1	25.90	27.51	33	PASS
EGPRS1900	810	2	23.43	25.04	33	PASS
EGPRS1900	810	3	21.83	23.44	33	PASS
EGPRS1900	810	4	20.81	22.42	33	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

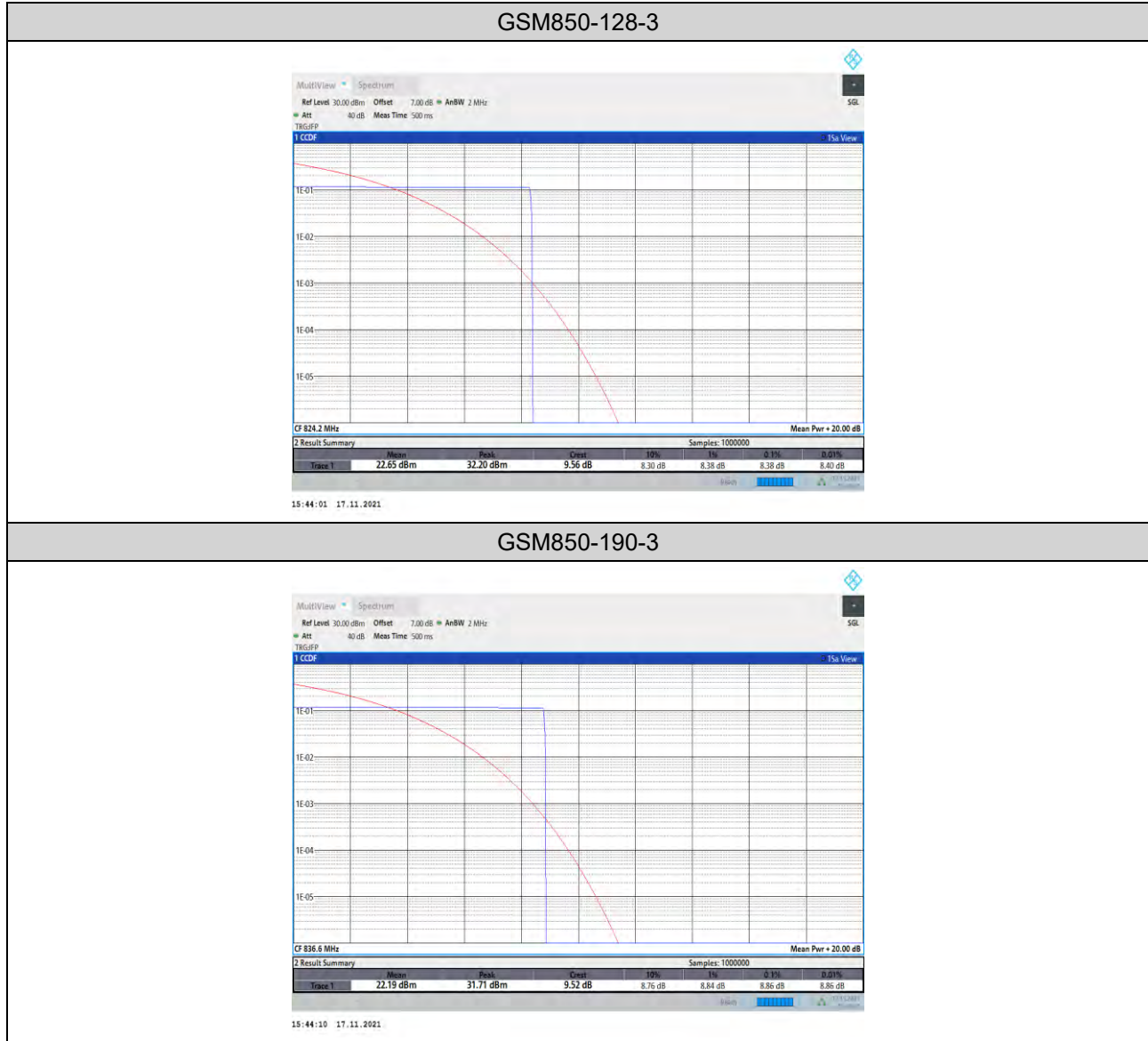
Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	8.38	13	PASS
GSM850	190	8.86	13	PASS
GSM850	251	9.14	13	PASS
EGPRS850	128	12.7	13	PASS
EGPRS850	190	12.68	13	PASS
EGPRS850	251	12.68	13	PASS
GSM1900	512	9.6	13	PASS
GSM1900	661	9.6	13	PASS
GSM1900	810	9.6	13	PASS
EGPRS1900	512	12.62	13	PASS
EGPRS1900	661	12.58	13	PASS
EGPRS1900	810	12.6	13	PASS



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Test Graphs

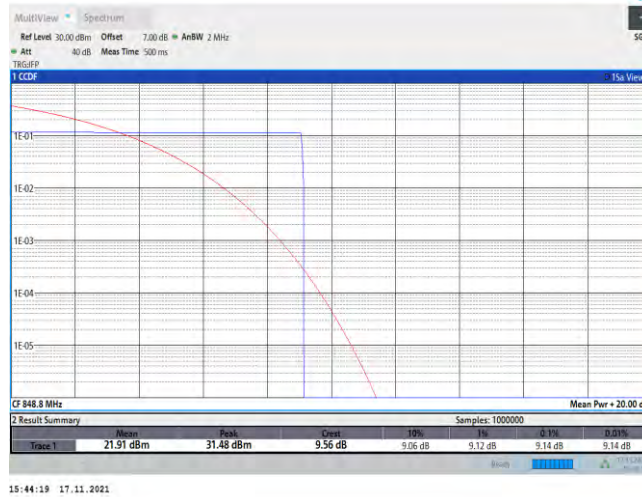


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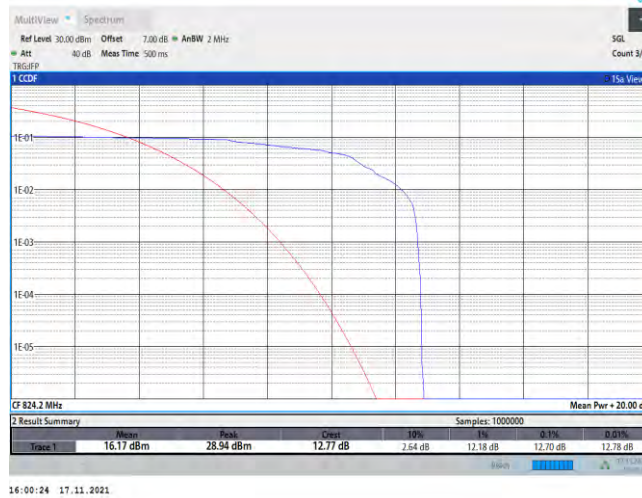
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GSM850-251-3



15:44:19 17.11.2021

EGPRS850-128-8



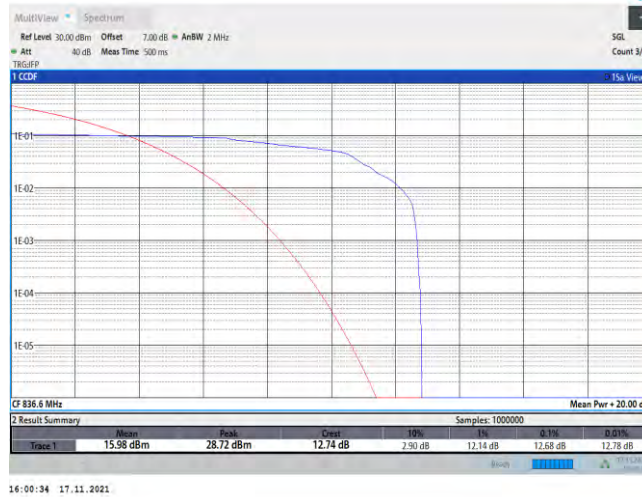
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EGPRS850-251-8



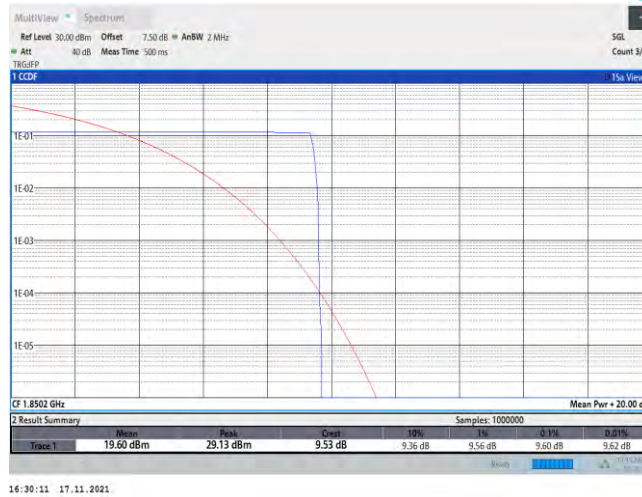
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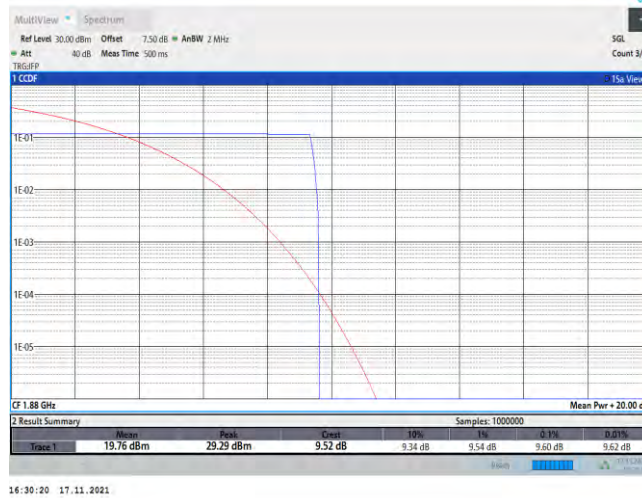
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GSM1900-512-0



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GSM1900-661-0



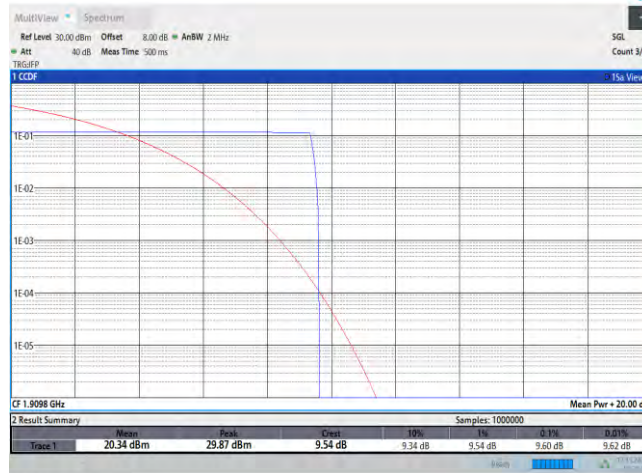
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GSM1900-810-0



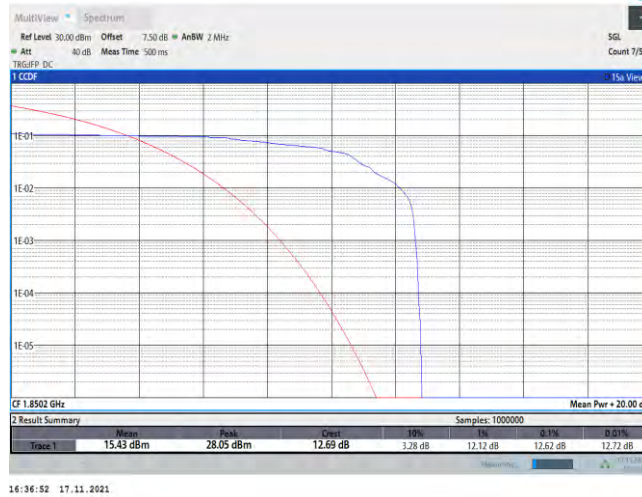
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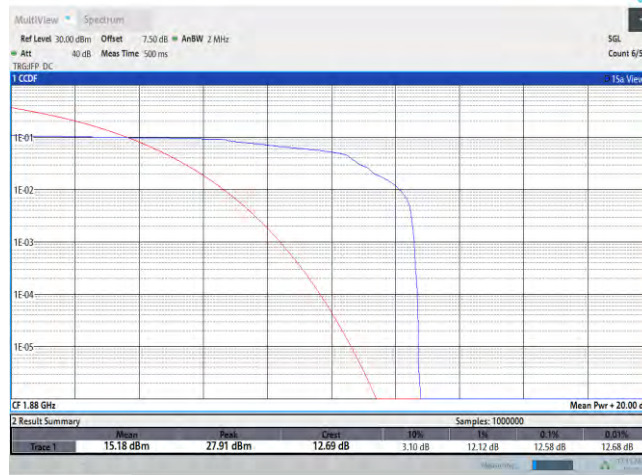
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EGPRS1900-512-2



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EGPRS1900-661-2



16:37:02 17.11.2021

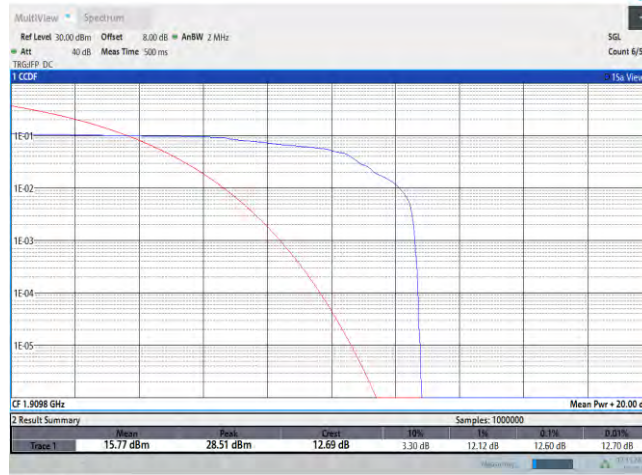


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Modulation Characteristics

Test Result

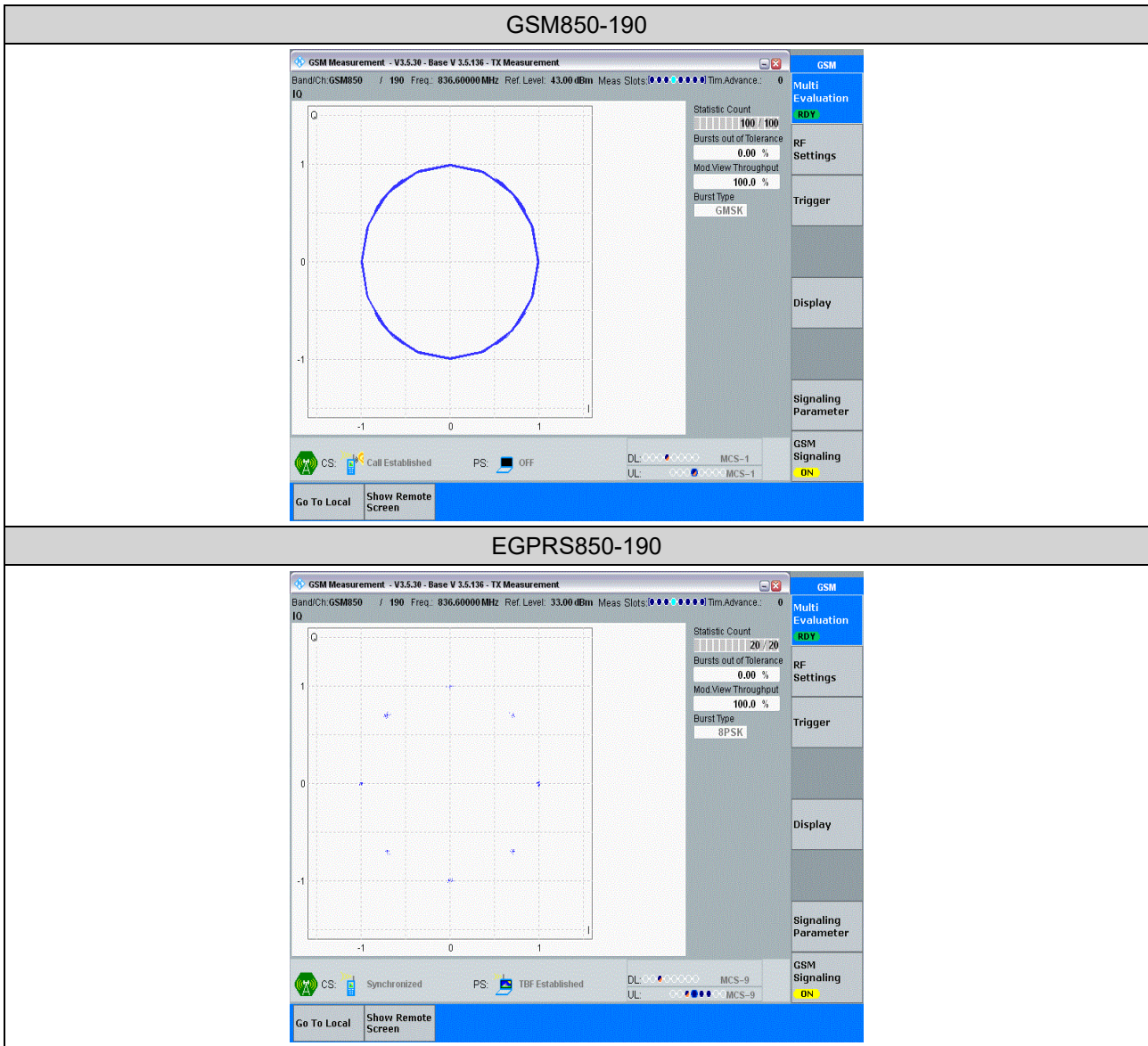
Band	Channel	Result	Verdict
GSM850	190	PASS	PASS
EGPRS850	190	PASS	PASS
GSM1900	661	PASS	PASS
EGPRS1900	661	PASS	PASS



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Test Graphs

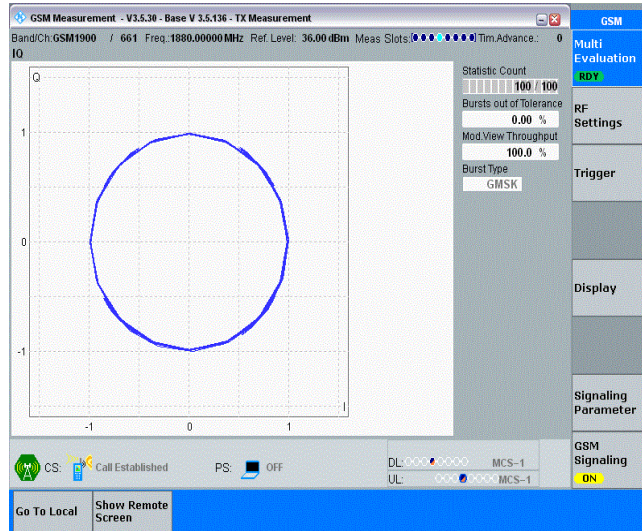


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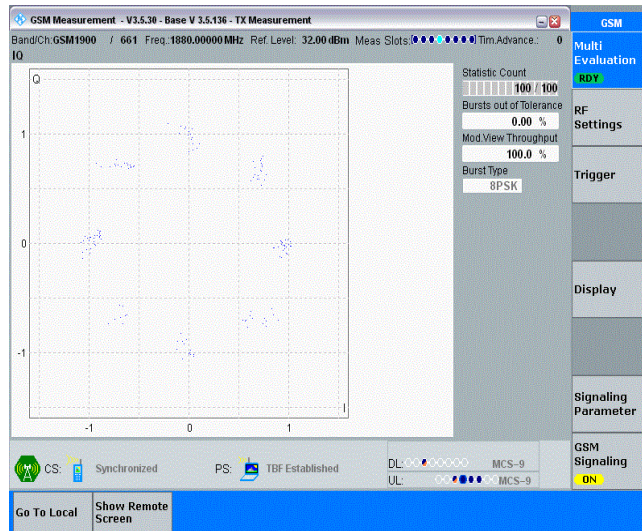
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GSM1900-661



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	0.244	0.319	---	PASS
GSM850	190	0.247	0.318	---	PASS
GSM850	251	0.245	0.320	---	PASS
EGPRS850	128	0.248	0.313	---	PASS
EGPRS850	190	0.25	0.317	---	PASS
EGPRS850	251	0.249	0.310	---	PASS
GSM1900	512	0.247	0.315	---	PASS
GSM1900	661	0.246	0.321	---	PASS
GSM1900	810	0.247	0.320	---	PASS
EGPRS1900	512	0.252	0.316	---	PASS
EGPRS1900	661	0.248	0.317	---	PASS
EGPRS1900	810	0.251	0.309	---	PASS

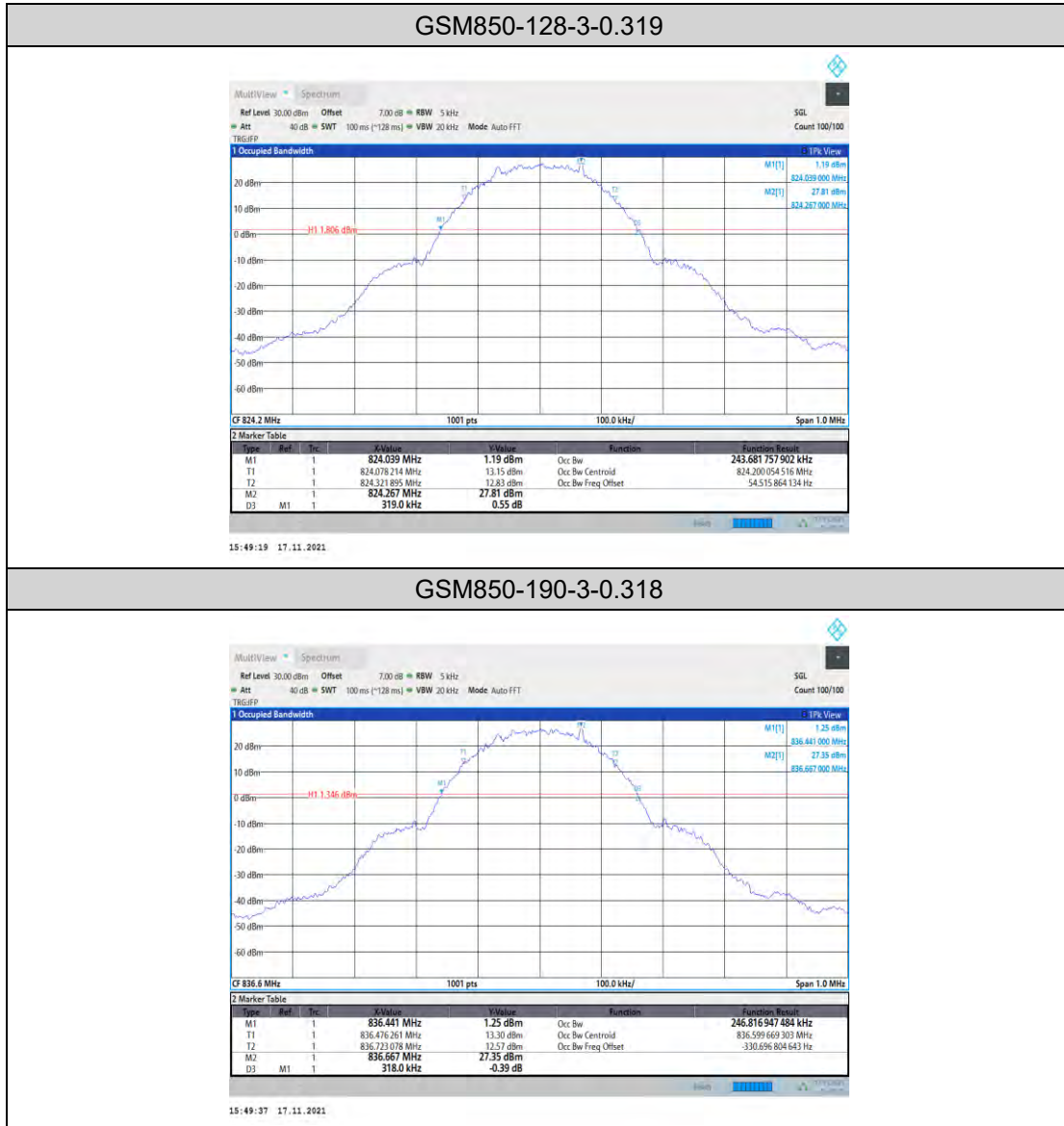


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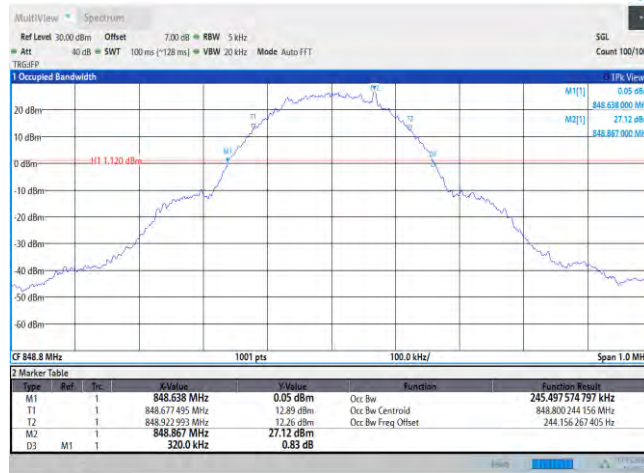
Test Graphs



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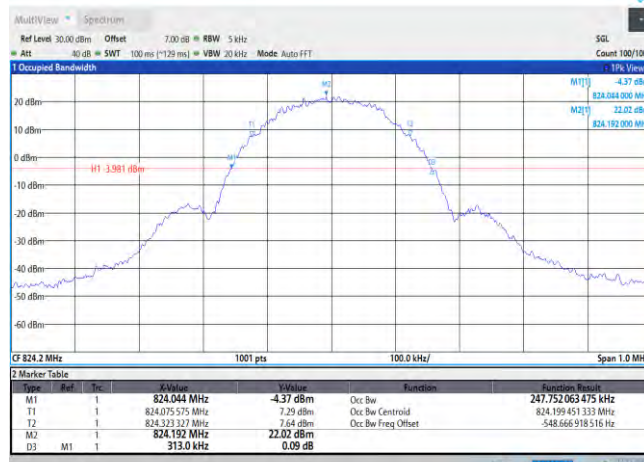
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GSM850-251-3-0.320



15:49:55 17.11.2021

EGPRS850-128-8-0.313



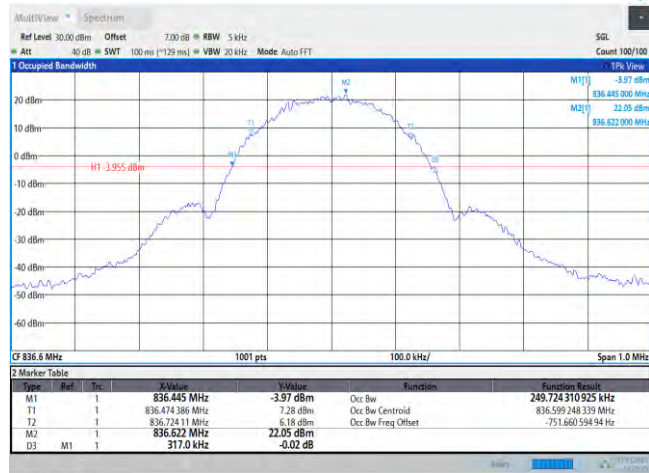
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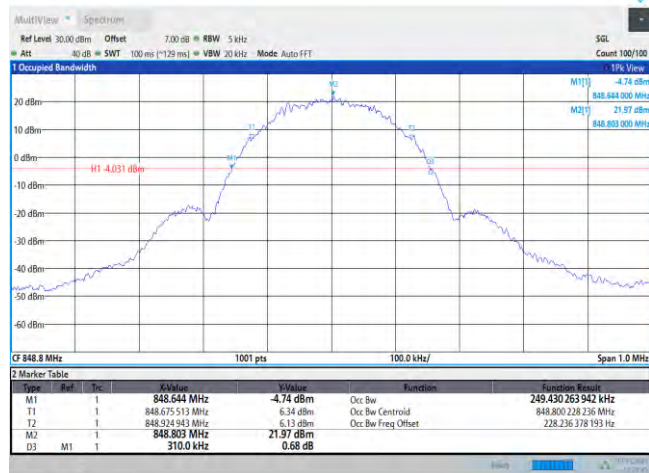
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EGPRS850-190-8-0.317



16:24:23 17.11.2021.

EGPRS850-251-8-0.310



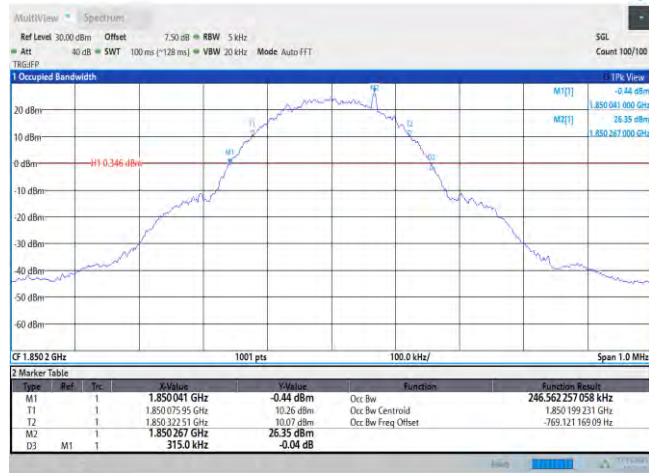
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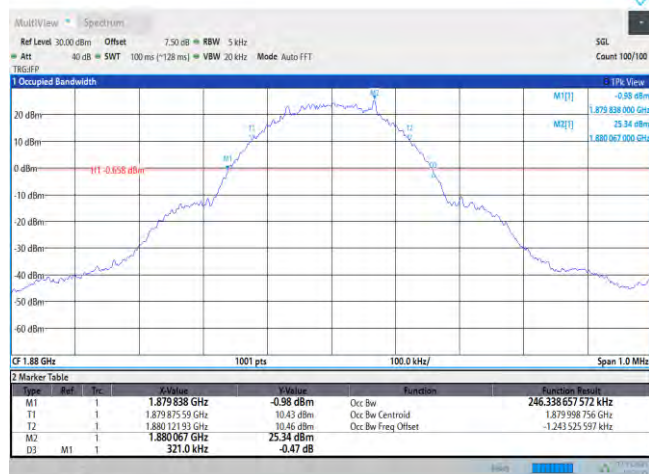
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GSM1900-512-0-0.315



16:32:03 17.11.2021

GSM1900-661-0-0.321



16:32:21 17.11.2021



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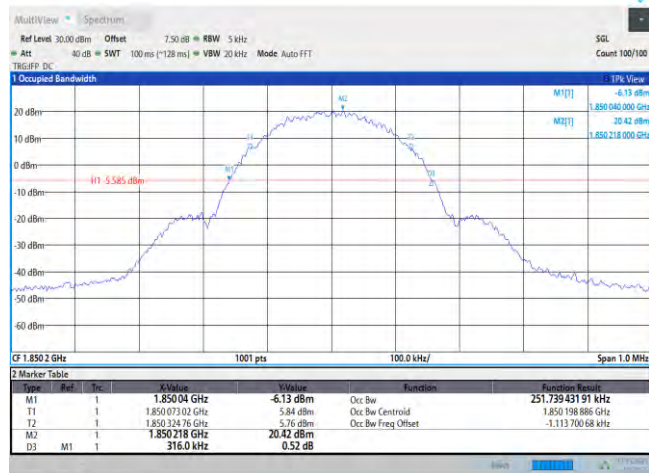
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GSM1900-810-0-0.320



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EGPRS1900-512-2-0.316



16:38:56 17.11.2021



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EGPRS1900-810-2-0.309



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Band Edge

Test Result

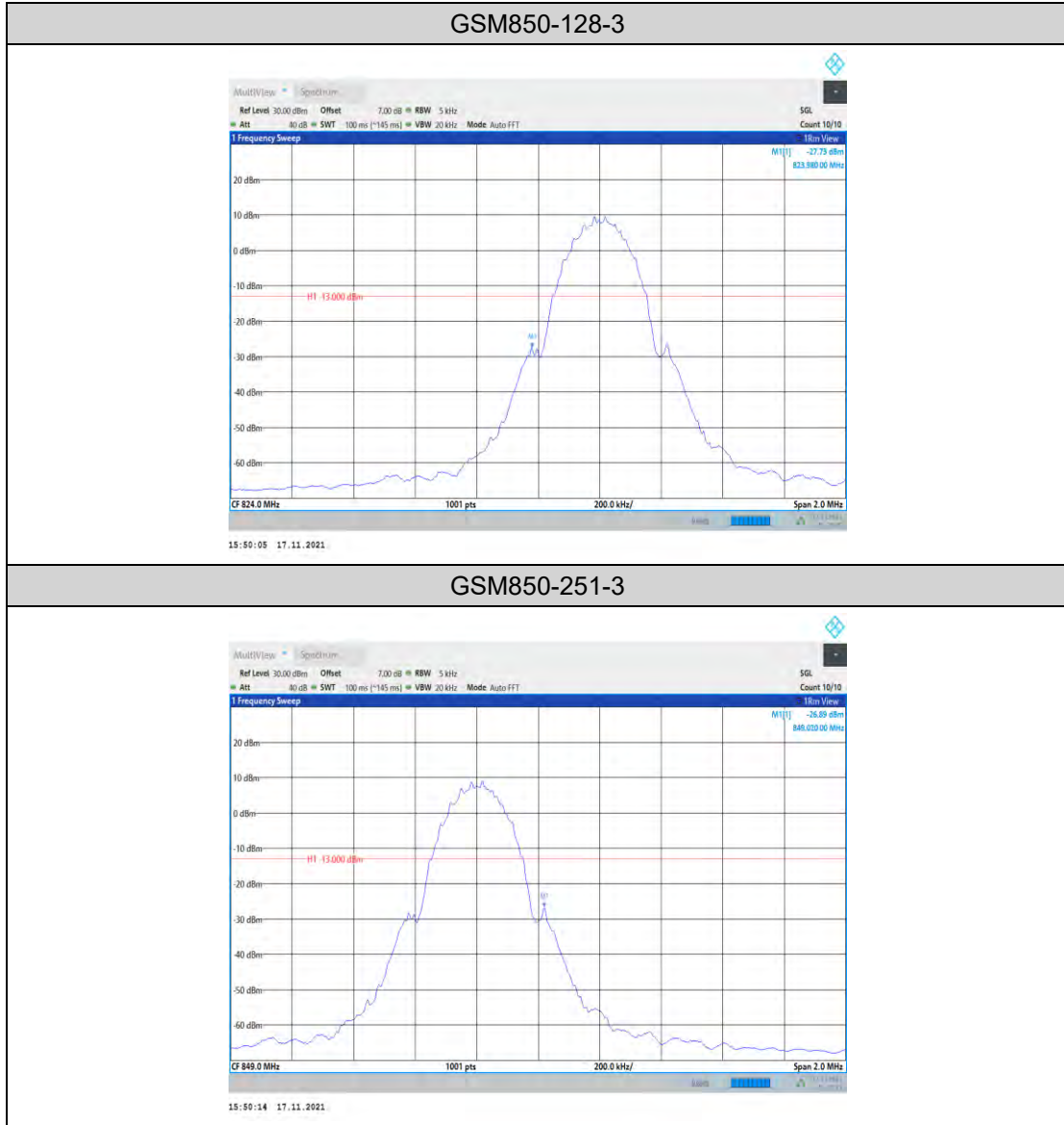
Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	823.98	-27.39	-13	PASS
GSM850	251	849.02	-26.89	-13	PASS
EGPRS850	128	823.99	-35.13	-13	PASS
EGPRS850	251	849.04	-36.74	-13	PASS
GSM1900	512	1849.98	-30.49	-13	PASS
GSM1900	810	1910.02	-28.59	-13	PASS
EGPRS1900	512	1849.99	-36.90	-13	PASS
EGPRS1900	810	1910.04	-37.20	-13	PASS



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Test Graphs

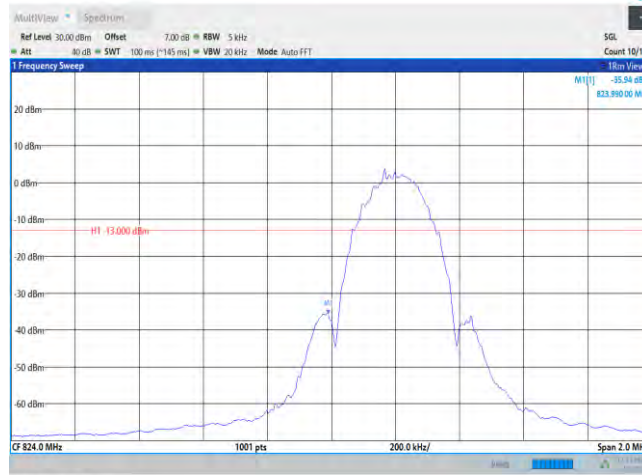


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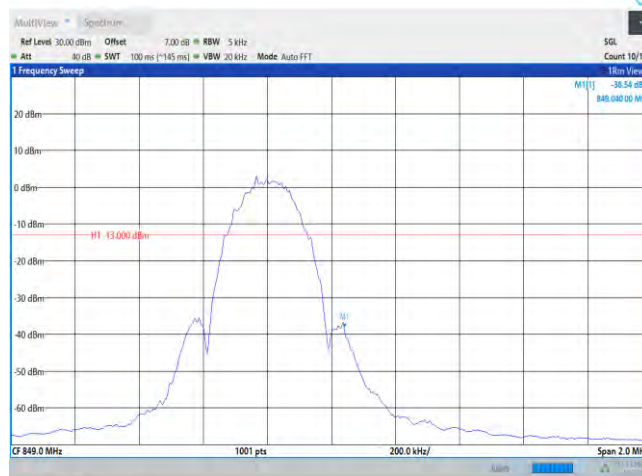
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EGPRS850-128-8



16:24:53 17.11.2021

EGPRS850-251-8



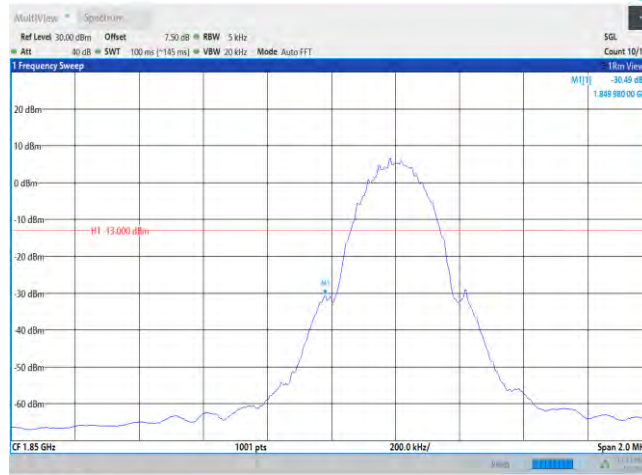
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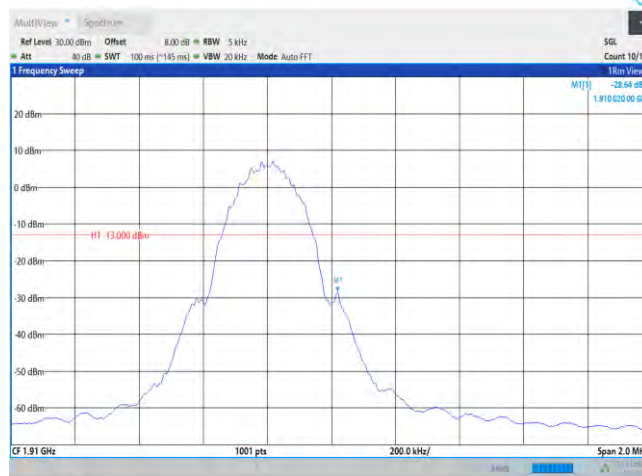
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GSM1900-810-0



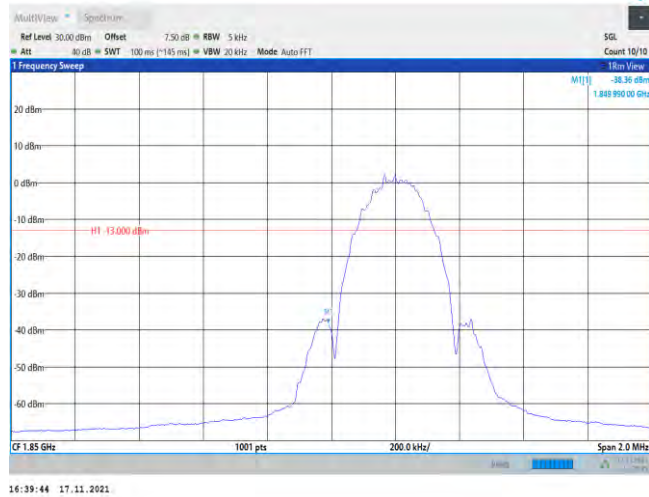
16:32:58 17.11.2021



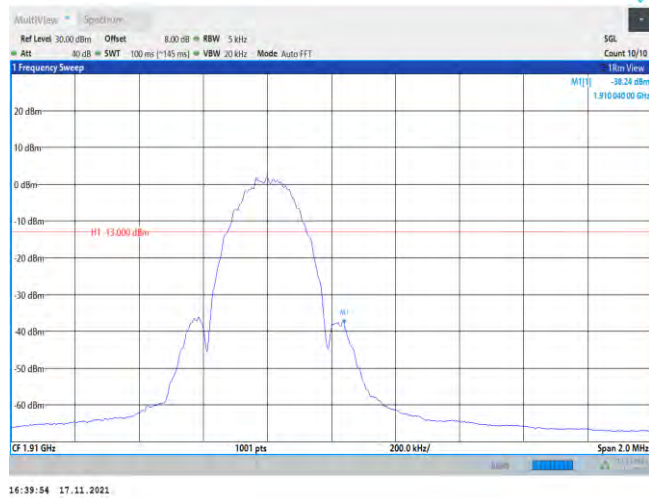
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EGPRS1900-512-2



EGPRS1900-810-2



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Conducted Spurious Emission

Test Result

Band	Channel	Frequency Range (MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	0.009~0.15MHz	0.13	-81.63	-33	PASS
GSM850	128	0.15~30MHz	25.83	-50.47	-13	PASS
GSM850	128	30~1000MHz	240.39	-36.53	-13	PASS
GSM850	128	1000~3000MHz	1697.81	-41.21	-13	PASS
GSM850	128	3000~10000MHz	3395.14	-49.62	-13	PASS
GSM850	190	0.009~0.15MHz	0.01	-83.15	-33	PASS
GSM850	190	0.15~30MHz	28.71	-50.97	-13	PASS
GSM850	190	30~1000MHz	227.75	-37.04	-13	PASS
GSM850	190	1000~3000MHz	1697.74	-41.34	-13	PASS
GSM850	190	3000~10000MHz	3395.14	-49.41	-13	PASS
GSM850	251	0.009~0.15MHz	0.01	-82.52	-33	PASS
GSM850	251	0.15~30MHz	27.39	-50.88	-13	PASS
GSM850	251	30~1000MHz	259.83	-36.49	-13	PASS
GSM850	251	1000~3000MHz	1697.54	-40.89	-13	PASS
GSM850	251	3000~10000MHz	7478.1	-57.53	-13	PASS
EGPRS850	128	0.009~0.15MHz	0.13	-81.25	-33	PASS
EGPRS850	128	0.15~30MHz	29.45	-50.88	-13	PASS
EGPRS850	128	30~1000MHz	255.14	-37.89	-13	PASS
EGPRS850	128	1000~3000MHz	2968.63	-47.97	-13	PASS
EGPRS850	128	3000~10000MHz	7471.33	-57.53	-13	PASS
EGPRS850	190	0.009~0.15MHz	0.13	-82.92	-33	PASS
EGPRS850	190	0.15~30MHz	21.86	-51.11	-13	PASS
EGPRS850	190	30~1000MHz	32.85	-37	-13	PASS
EGPRS850	190	1000~3000MHz	1697.28	-47.58	-13	PASS
EGPRS850	190	3000~10000MHz	7492.57	-57.61	-13	PASS
EGPRS850	251	0.009~0.15MHz	0.13	-83.29	-33	PASS
EGPRS850	251	0.15~30MHz	28.48	-50.94	-13	PASS
EGPRS850	251	30~1000MHz	35.92	-38.07	-13	PASS
EGPRS850	251	1000~3000MHz	1697.41	-47.11	-13	PASS
EGPRS850	251	3000~10000MHz	7475.3	-57.63	-13	PASS
GSM1900	512	0.009~0.15MHz	0.01	-89.45	-43	PASS



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GSM1900	512	0.15~30MHz	27.4	-64.37	-23	PASS
GSM1900	512	30~1000MHz	35.87	-48.31	-13	PASS
GSM1900	512	1000~3000MHz	2991.87	-50.73	-13	PASS
GSM1900	512	3000~20000MHz	7495.5	-47.03	-13	PASS
GSM1900	661	0.009~0.15MHz	0.01	-89.99	-43	PASS
GSM1900	661	0.15~30MHz	29.53	-64.49	-23	PASS
GSM1900	661	30~1000MHz	39.78	-48.91	-13	PASS
GSM1900	661	1000~3000MHz	2997.2	-50.65	-13	PASS
GSM1900	661	3000~20000MHz	7479.63	-46.98	-13	PASS
GSM1900	810	0.009~0.15MHz	0.01	-89.54	-43	PASS
GSM1900	810	0.15~30MHz	22.59	-64.65	-23	PASS
GSM1900	810	30~1000MHz	41.72	-48.73	-13	PASS
GSM1900	810	1000~3000MHz	2411.13	-50.17	-13	PASS
GSM1900	810	3000~20000MHz	7494.93	-46.93	-13	PASS
EGPRS1900	512	0.009~0.15MHz	0.01	-89.12	-43	PASS
EGPRS1900	512	0.15~30MHz	29.81	-64.88	-23	PASS
EGPRS1900	512	30~1000MHz	64.35	-48.87	-13	PASS
EGPRS1900	512	1000~3000MHz	2431.2	-50.1	-13	PASS
EGPRS1900	512	3000~20000MHz	7485.87	-46.93	-13	PASS
EGPRS1900	661	0.009~0.15MHz	0.02	-90.17	-43	PASS
EGPRS1900	661	0.15~30MHz	28.78	-64.64	-23	PASS
EGPRS1900	661	30~1000MHz	37.26	-48.19	-13	PASS
EGPRS1900	661	1000~3000MHz	2435.93	-49.85	-13	PASS
EGPRS1900	661	3000~20000MHz	7495.5	-46.83	-13	PASS
EGPRS1900	810	0.009~0.15MHz	0.02	-89.87	-43	PASS
EGPRS1900	810	0.15~30MHz	25.55	-64.48	-23	PASS
EGPRS1900	810	30~1000MHz	35.22	-49	-13	PASS
EGPRS1900	810	1000~3000MHz	2992.33	-50.7	-13	PASS
EGPRS1900	810	3000~20000MHz	7499.47	-46.8	-13	PASS

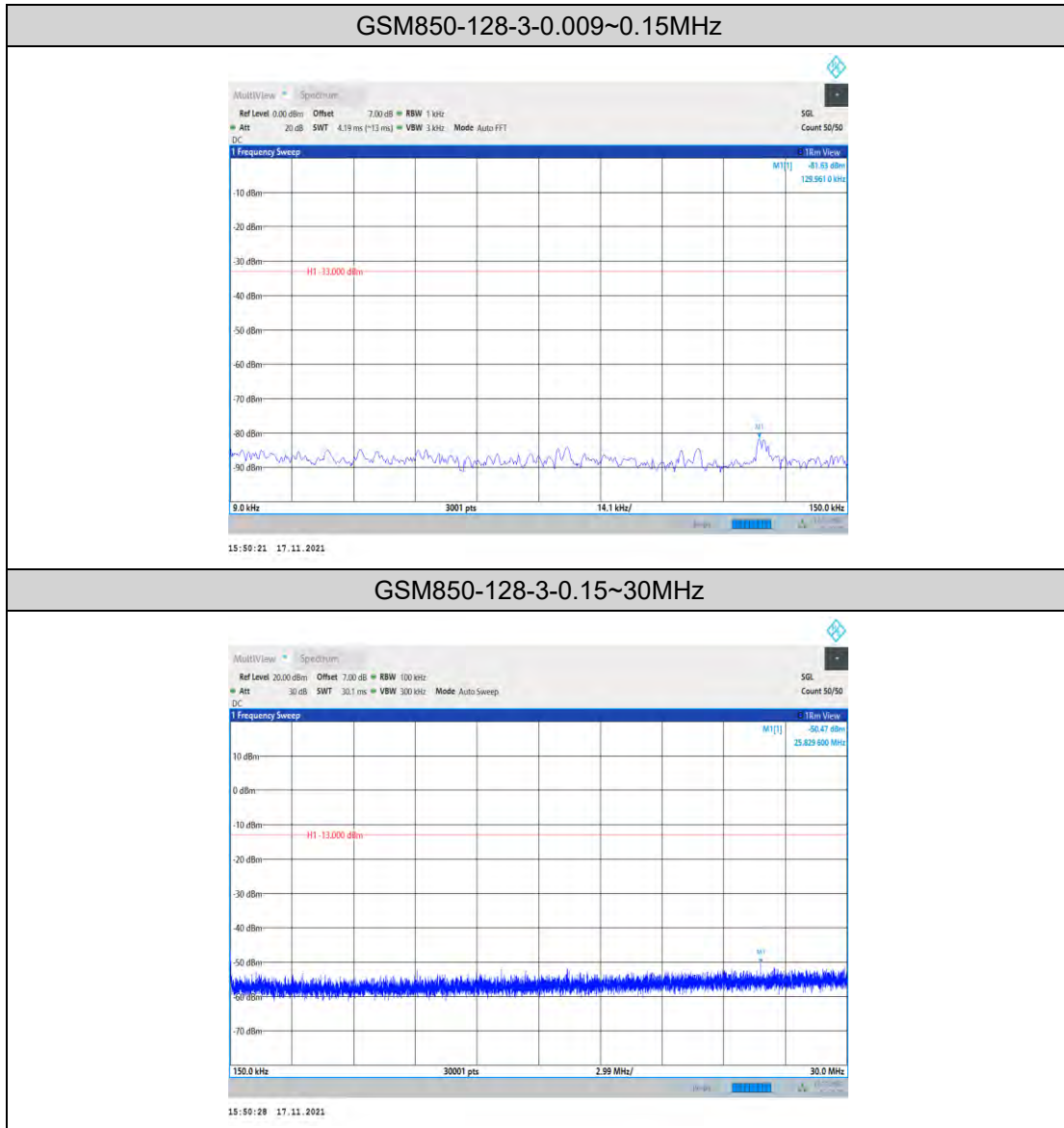


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Test Graphs

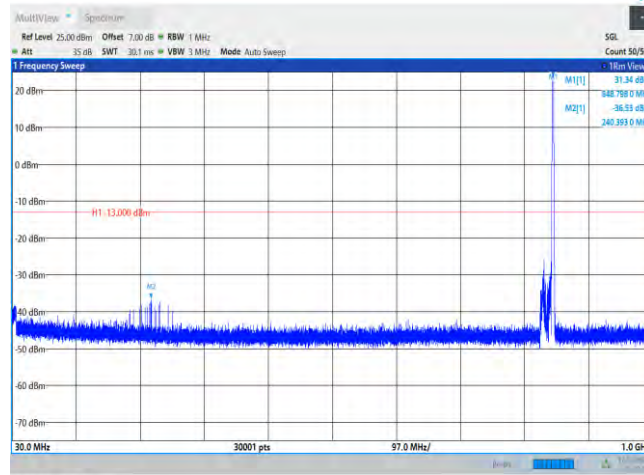


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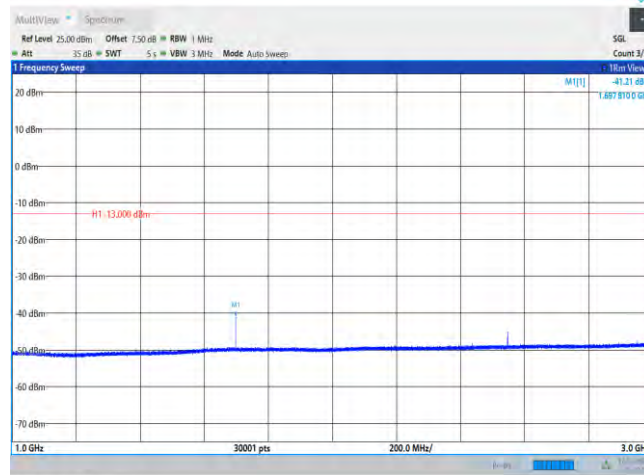
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GSM850-128-3-30~1000MHz



15:50:36 17.11.2021

GSM850-128-3-1000~3000MHz



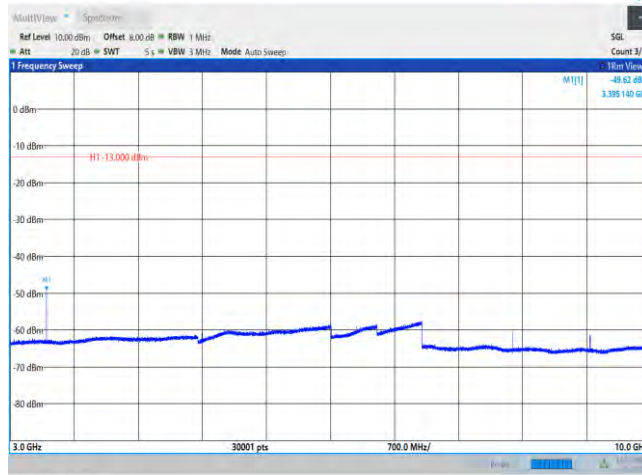
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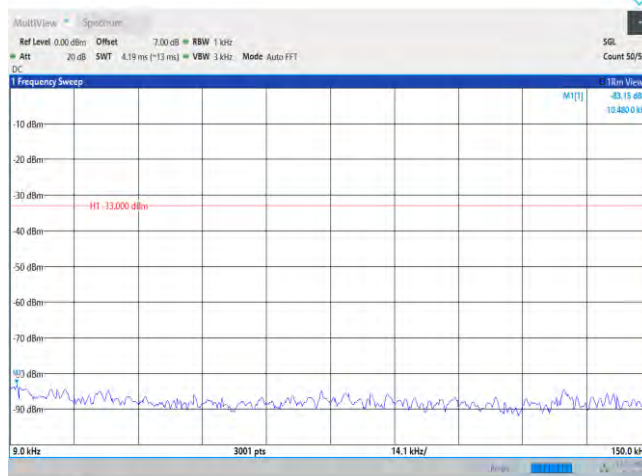
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GSM850-128-3-3000~10000MHz



15:51:20 17.11.2021

GSM850-190-3-0.009~0.15MHz



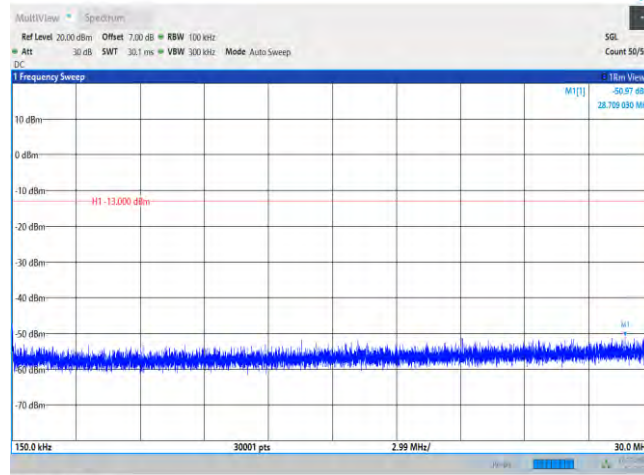
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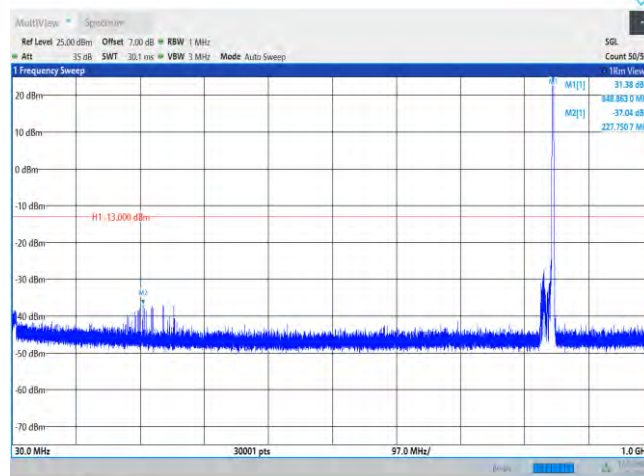
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GSM850-190-3-0.15~30MHz



15:51:33 17.11.2021

GSM850-190-3-30~1000MHz



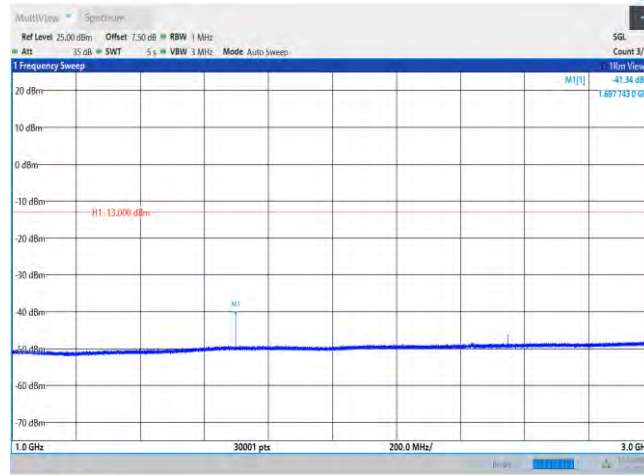
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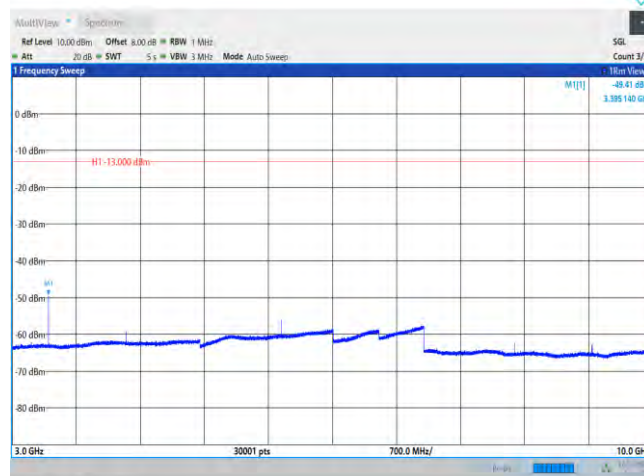
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GSM850-190-3-1000~3000MHz



15:52:03 17.11.2021

GSM850-190-3-3000~10000MHz



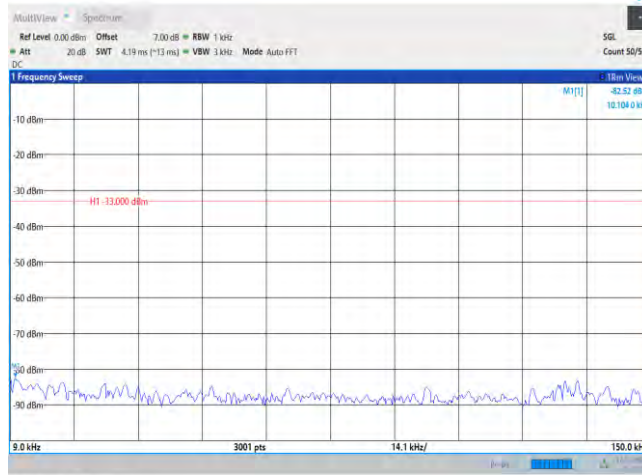
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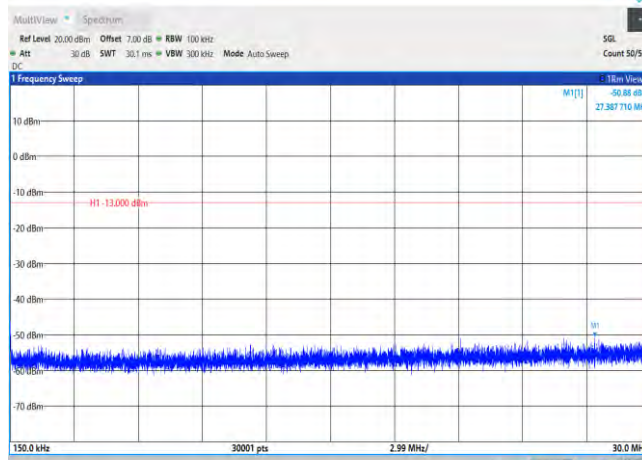
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GSM850-251-3-0.009~0.15MHz



15:52:31 17.11.2021

GSM850-251-3-0.15~30MHz



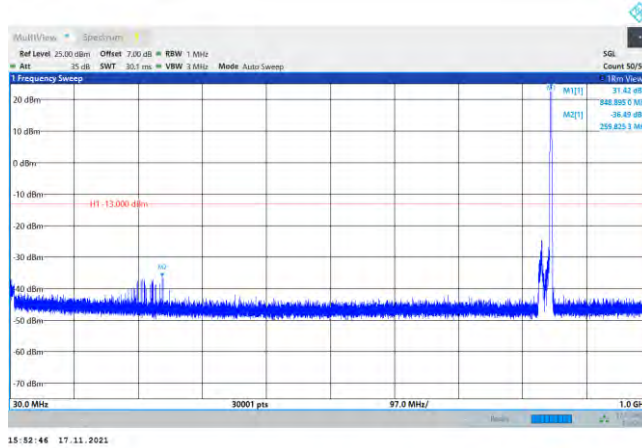
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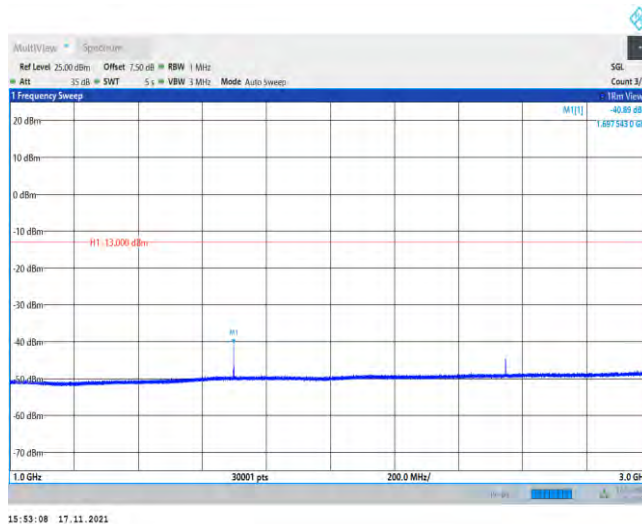
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GSM850-251-3-30~1000MHz



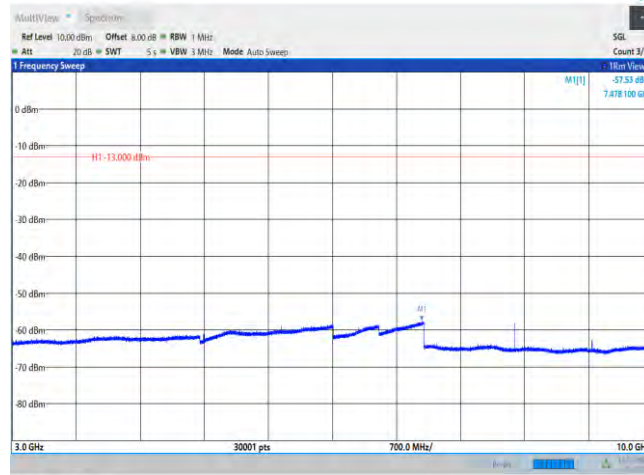
GSM850-251-3-1000~3000MHz



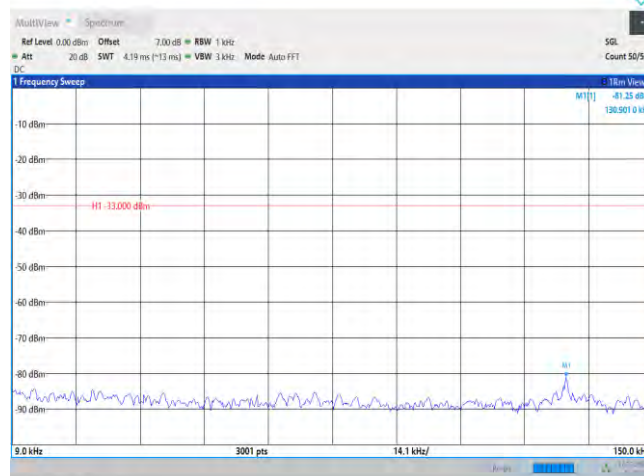
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GSM850-251-3-3000~10000MHz



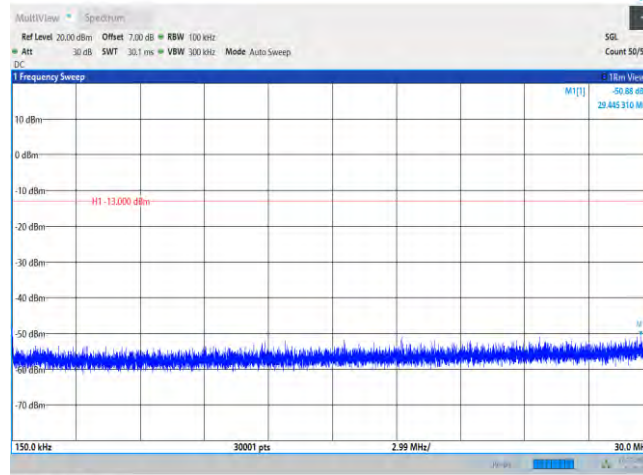
EGPRS850-128-8-0.009~0.15MHz



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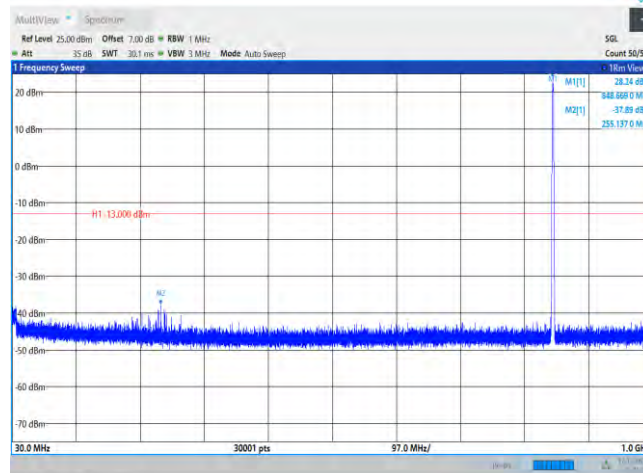
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EGPRS850-128-8-0.15~30MHz



16:25:17 17.11.2021

EGPRS850-128-8-30~100MHz



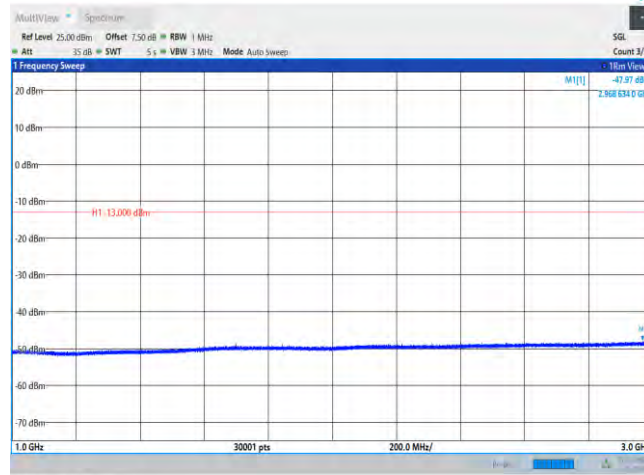
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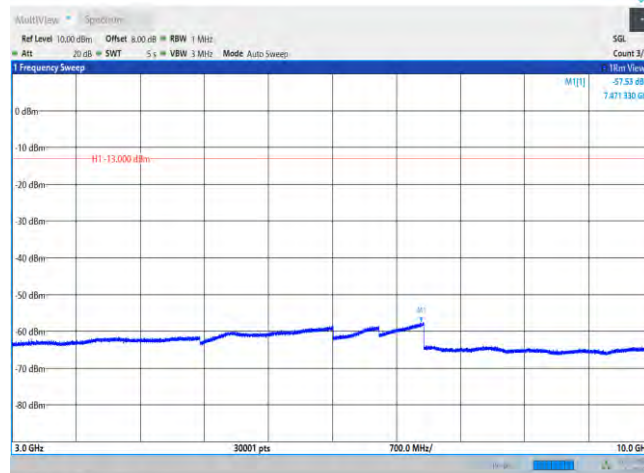
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EGPRS850-128-8-1000~3000MHz



16:25:47 17.11.2021

EGPRS850-128-8-3000~10000MHz



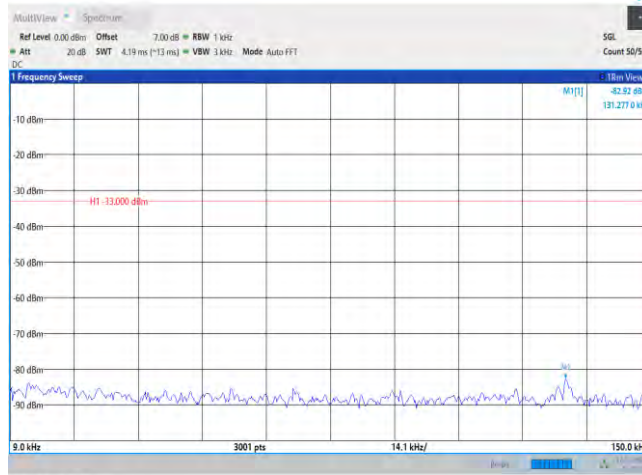
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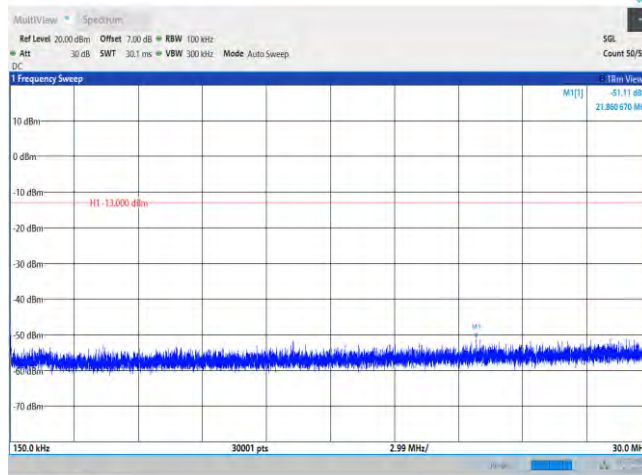
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EGPRS850-190-8-0.009~0.15MHz



16:26:16 17.11.2021

EGPRS850-190-8-0.15~30MHz



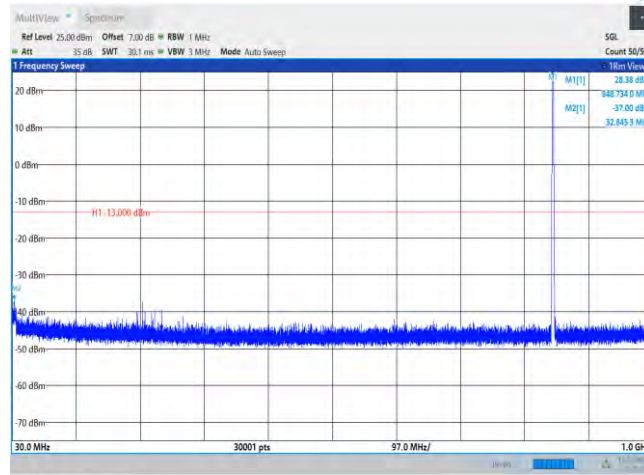
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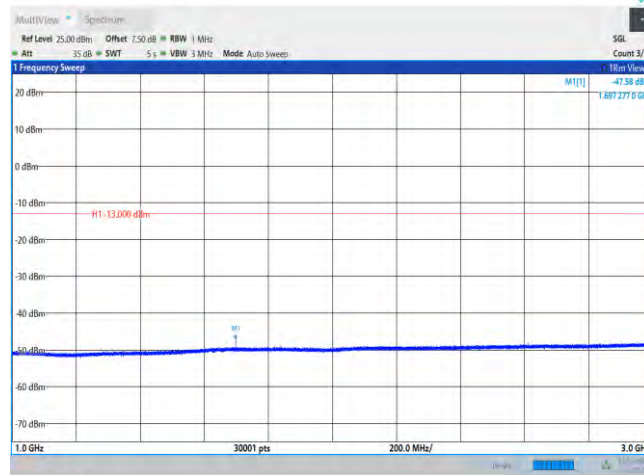
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EGPRS850-190-8-30~1000MHz



16:26:31 17.11.2021

EGPRS850-190-8-1000~3000MHz



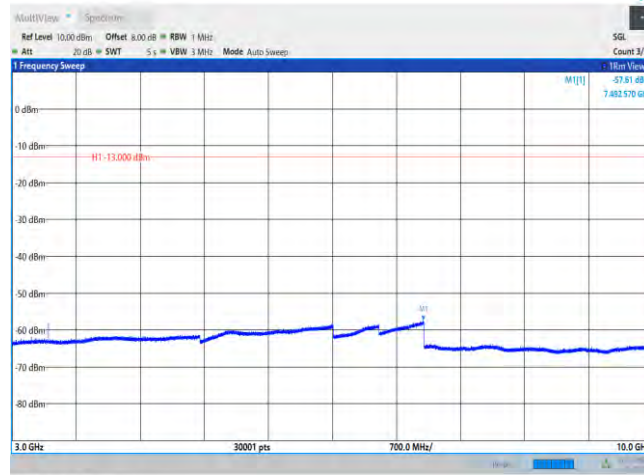
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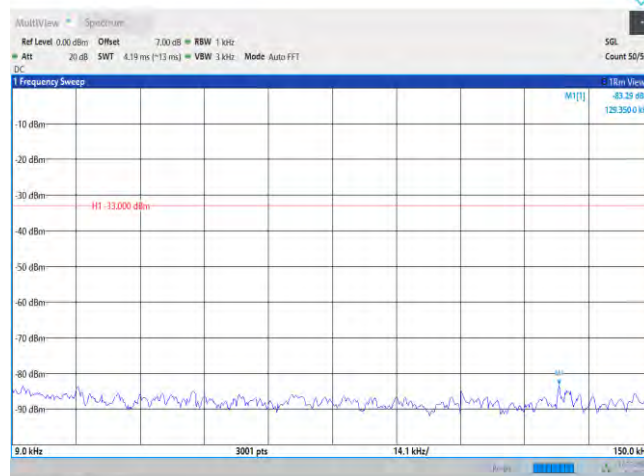
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EGPRS850-190-8-3000~10000MHz



16:27:19 17.11.2021

EGPRS850-251-8-0.009~0.15MHz



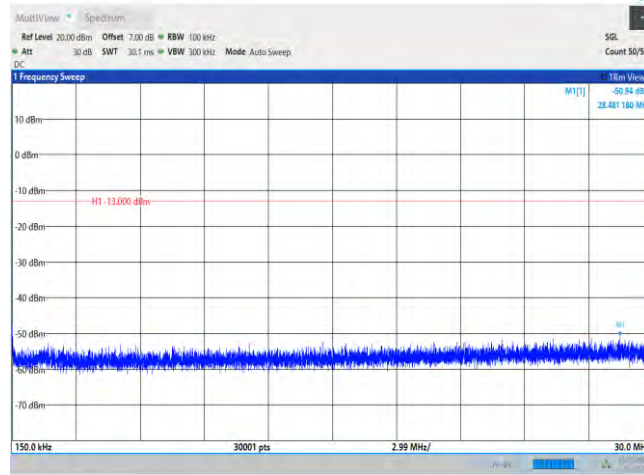
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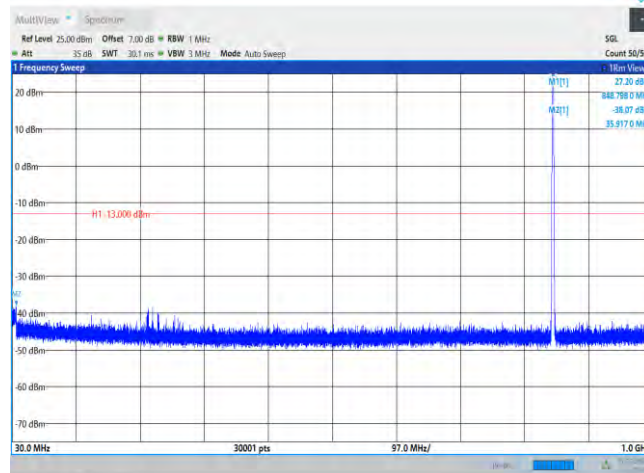
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EGPRS850-251-8-0.15~30MHz



16:27:33 17.11.2021

EGPRS850-251-8-30~100MHz



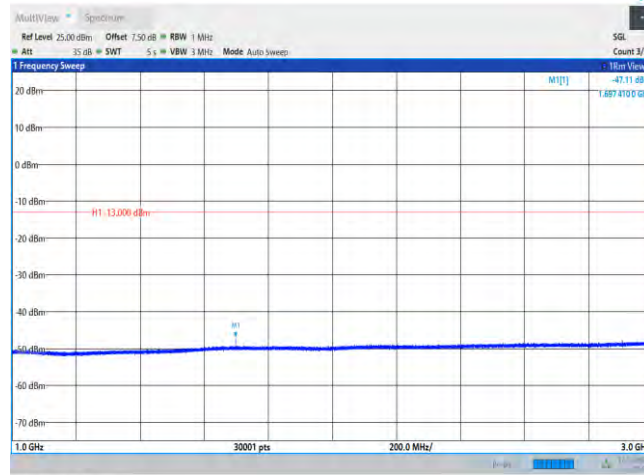
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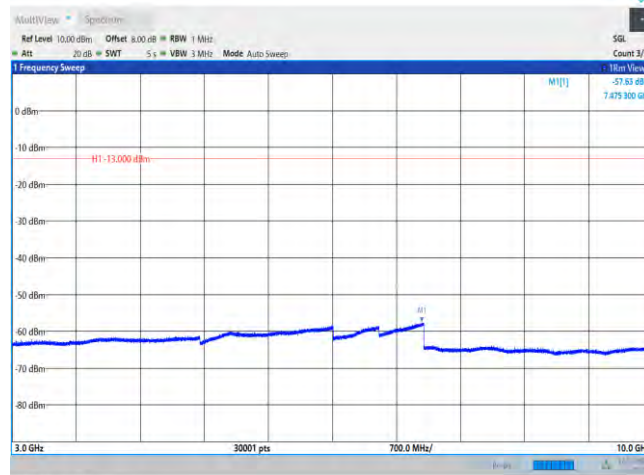
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EGPRS850-251-8-1000~3000MHz



16:28:03 17.11.2021

EGPRS850-251-8-3000~10000MHz



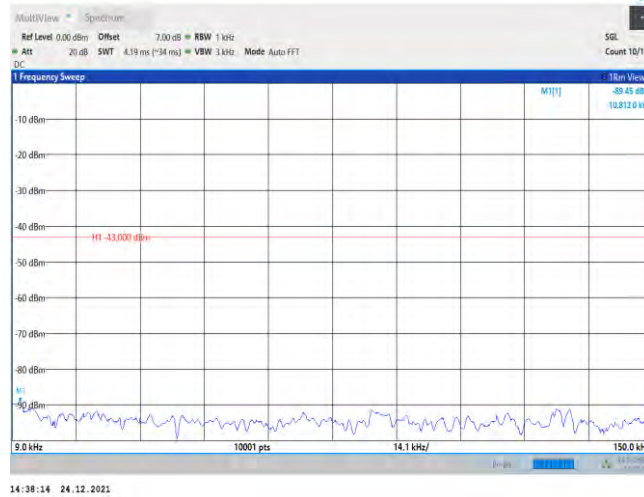
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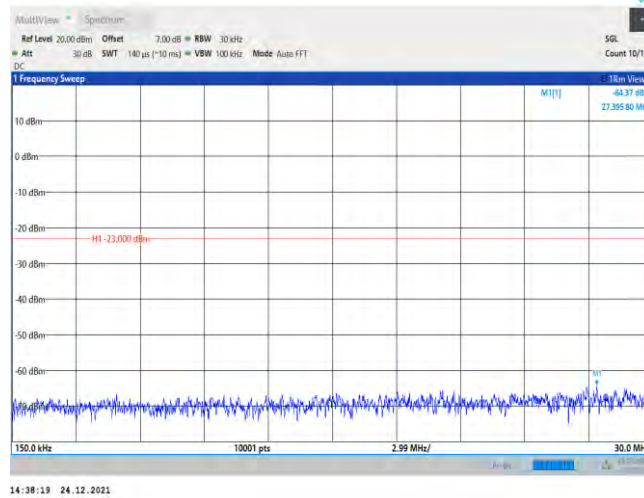
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GSM1900-512-0-0.009~0.15MHz



GSM1900-512-0-0.15~30MHz

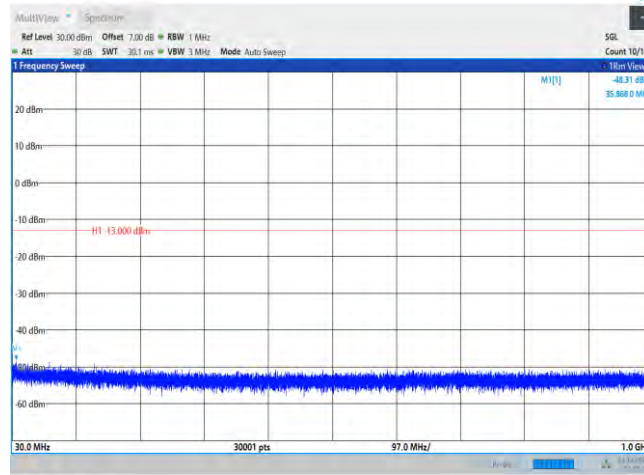


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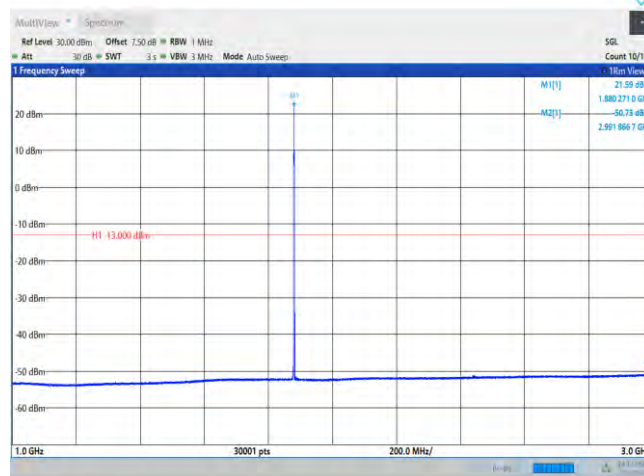
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GSM1900-512-0-30~1000MHz



14:38:27 24.12.2021

GSM1900-512-0-1000~3000MHz



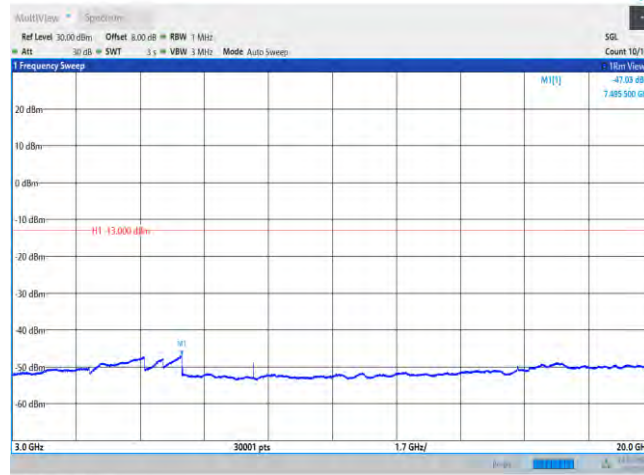
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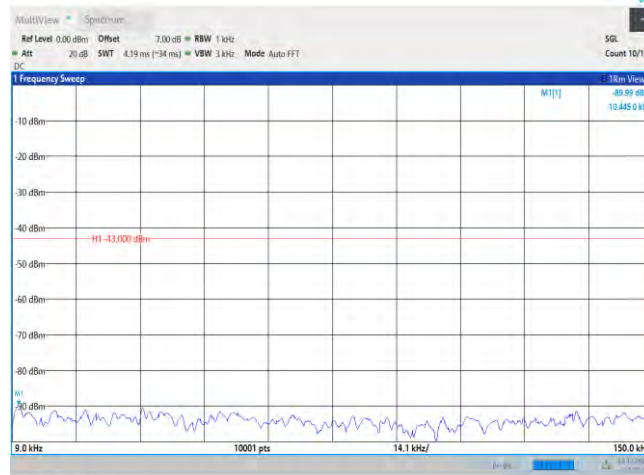
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GSM1900-512-0-3000~20000MHz



14:39:50 24.12.2021

GSM1900-661-0-0.009~0.15MHz



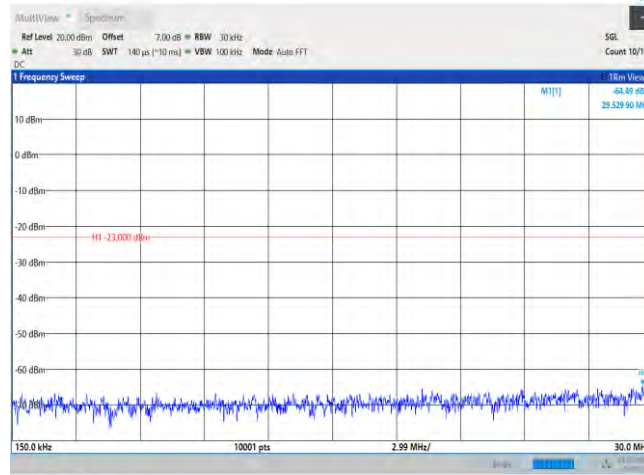
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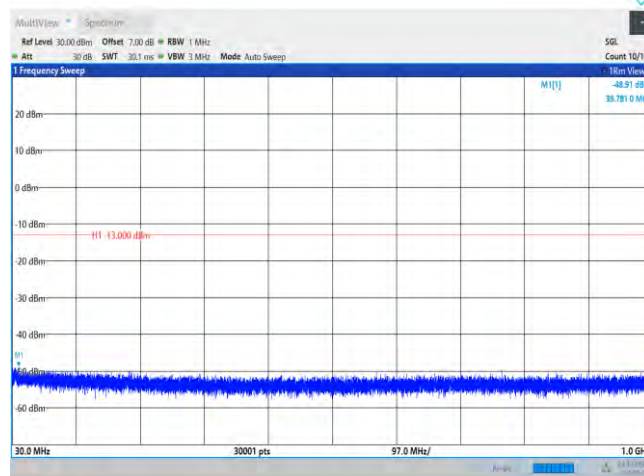
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GSM1900-661-0-0.15~30MHz



14:40:02 24.12.2021

GSM1900-661-0-30~1000MHz



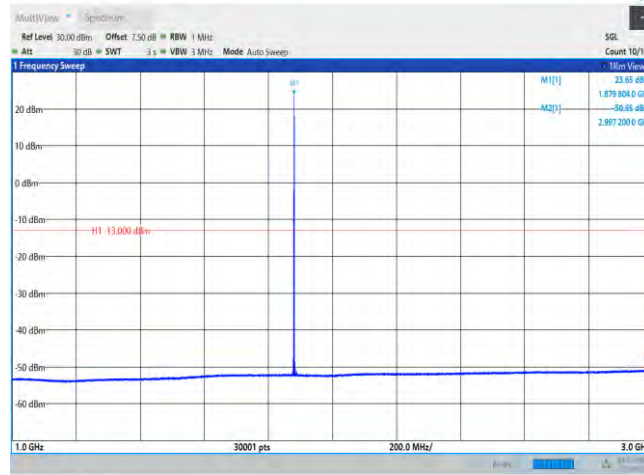
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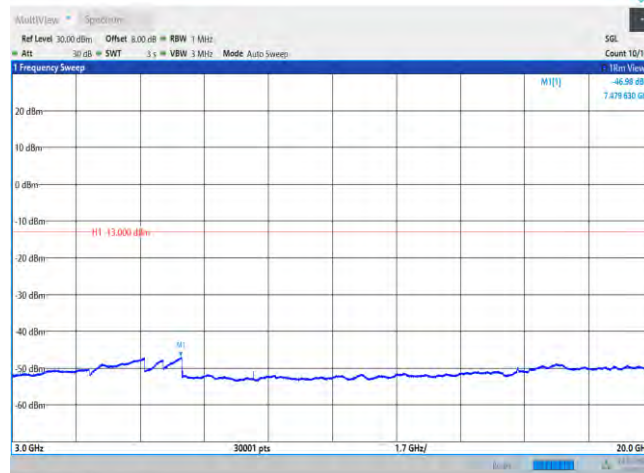
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GSM1900-661-0-1000~3000MHz



14:40:51 24.12.2021

GSM1900-661-0-3000~20000MHz



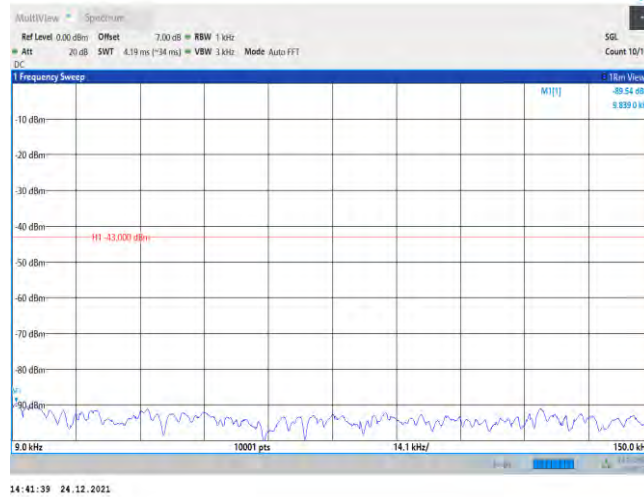
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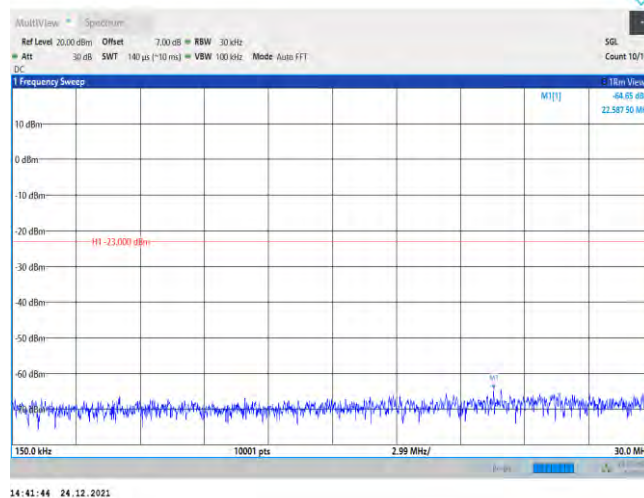
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GSM1900-810-0-0.009~0.15MHz



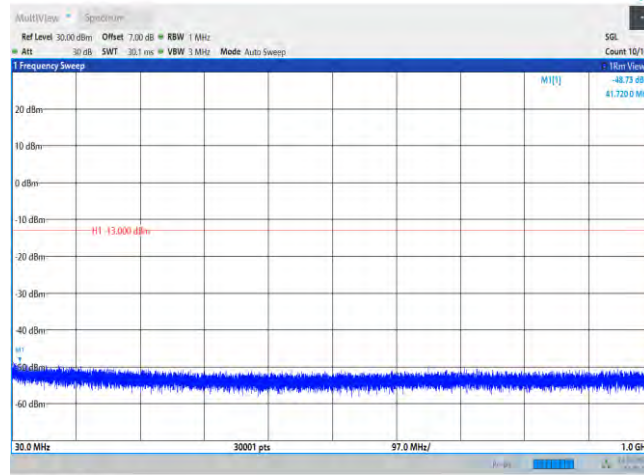
GSM1900-810-0-0.15~30MHz



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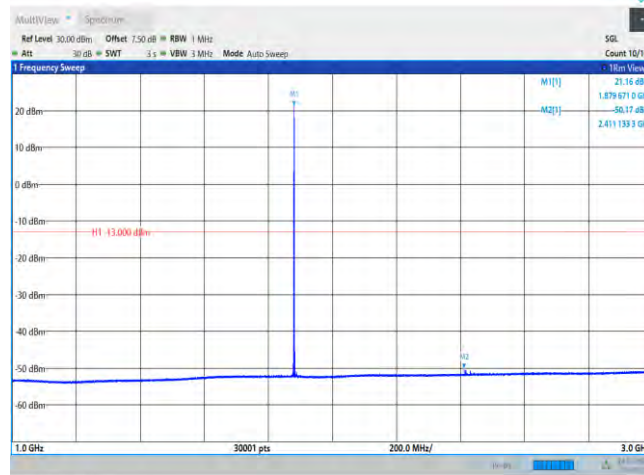
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GSM1900-810-0-30~1000MHz



14:41:52 24.12.2021

GSM1900-810-0-1000~3000MHz



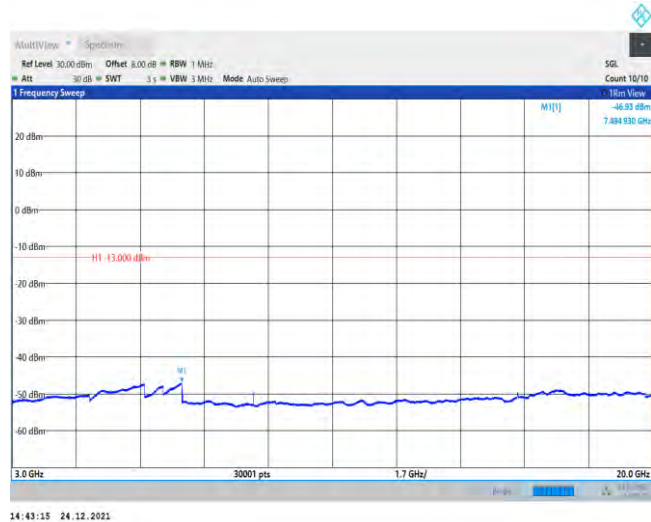
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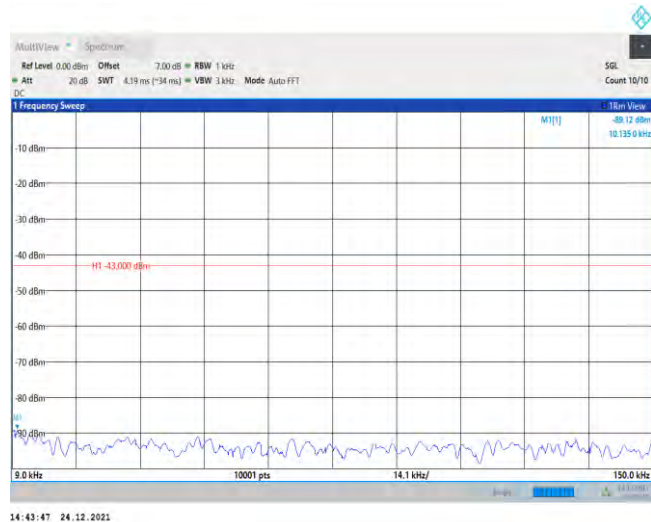
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GSM1900-810-0-3000~20000MHz



EGPRS1900-512-2-0.009~0.15MHz

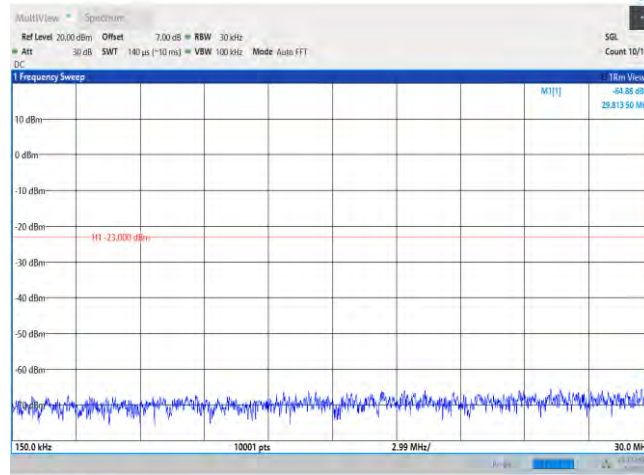


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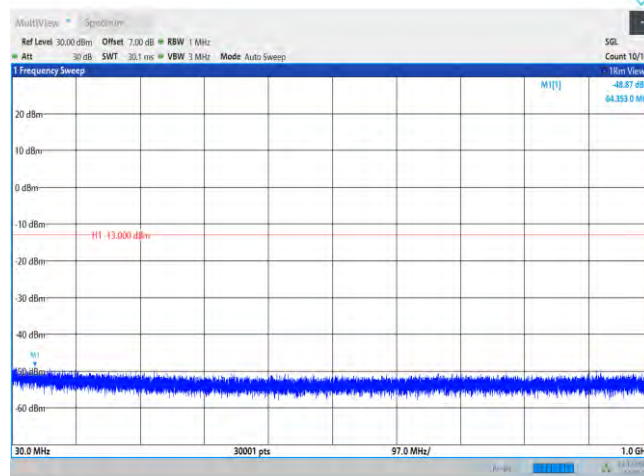
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EGPRS1900-512-2-0.15~30MHz



14:43:53 24.12.2021

EGPRS1900-512-2-30~1000MHz



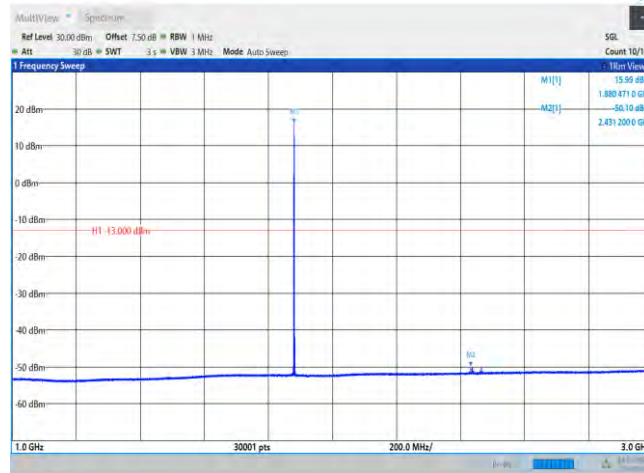
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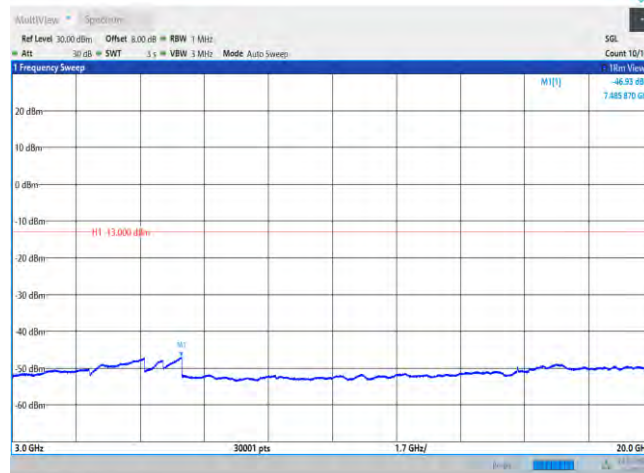
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EGPRS1900-512-2-1000~3000MHz



14:44:42 24.12.2021

EGPRS1900-512-2-3000~20000MHz



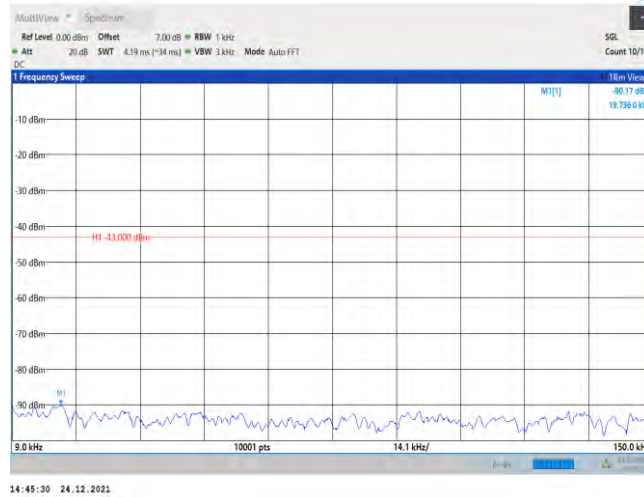
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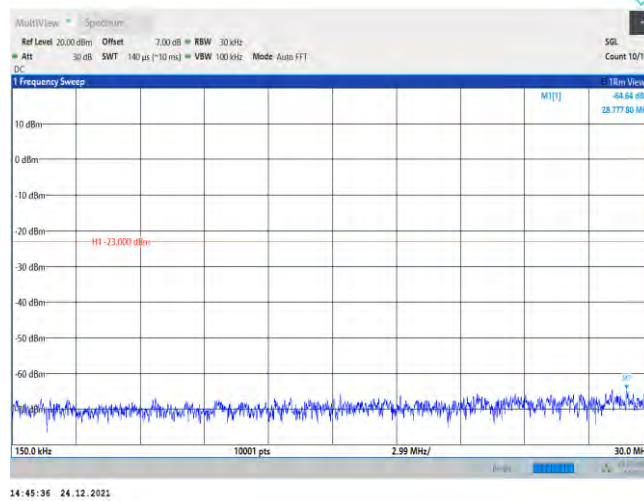
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EGPRS1900-661-2-0.009~0.15MHz



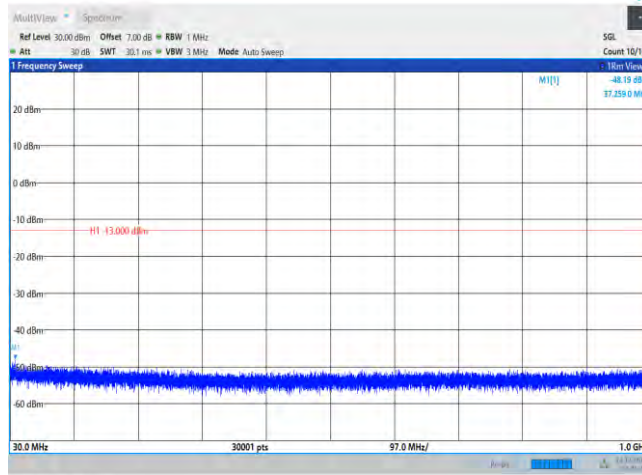
EGPRS1900-661-2-0.15~30MHz



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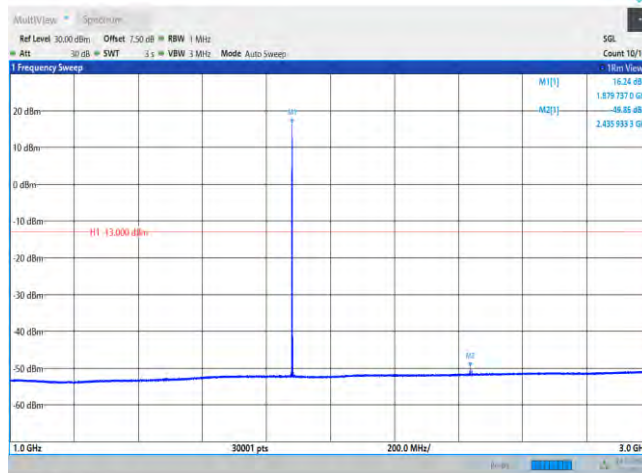
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EGPRS1900-661-2-30~1000MHz



14:45:43 24.12.2021

EGPRS1900-661-2-1000~3000MHz



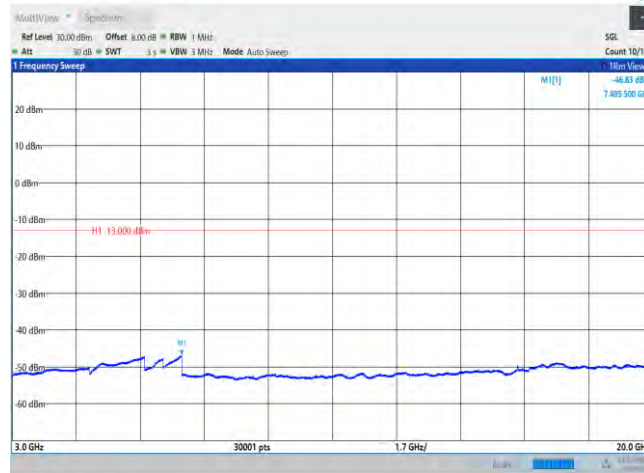
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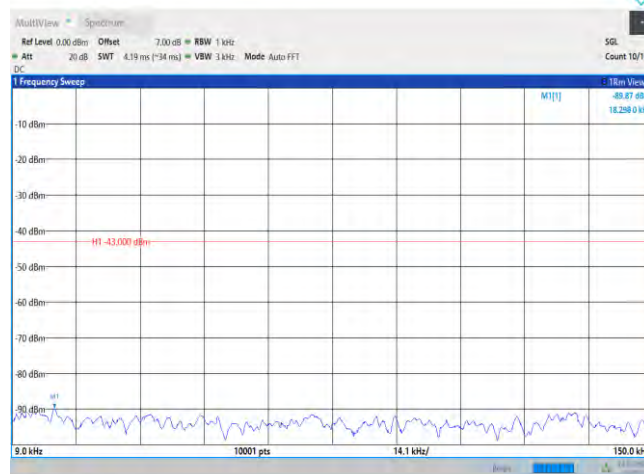
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EGPRS1900-661-2-3000~20000MHz



14:47:07 24.12.2021

EGPRS1900-810-2-0.009~0.15MHz



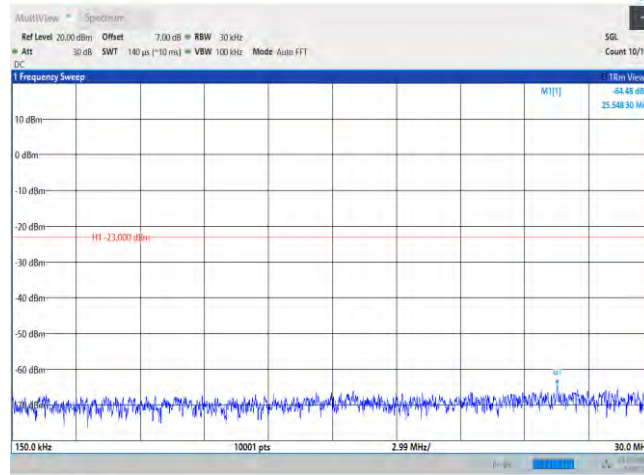
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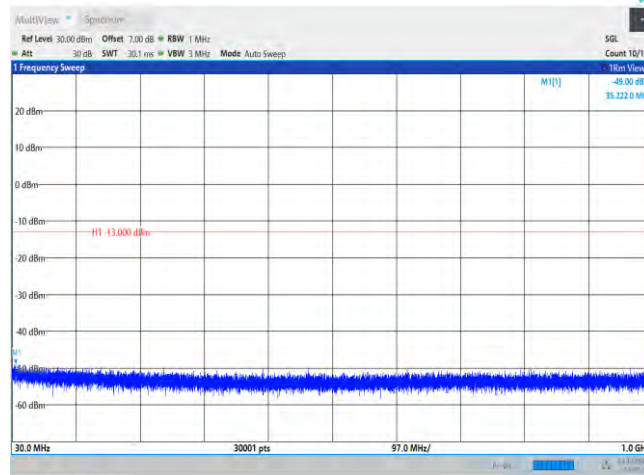
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EGPRS1900-810-2-0.15~30MHz



14:47:19 24.12.2021

EGPRS1900-810-2-30~1000MHz



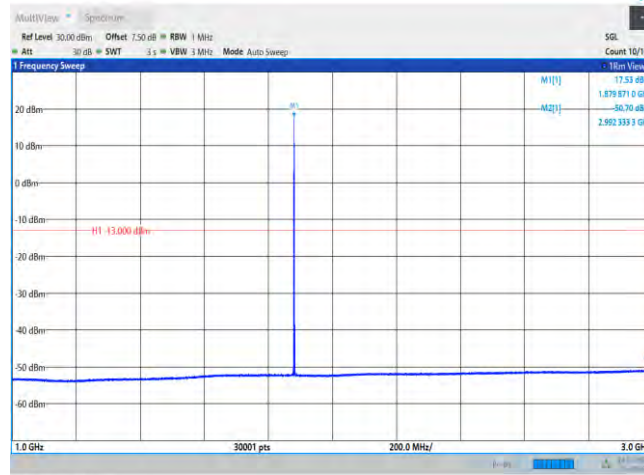
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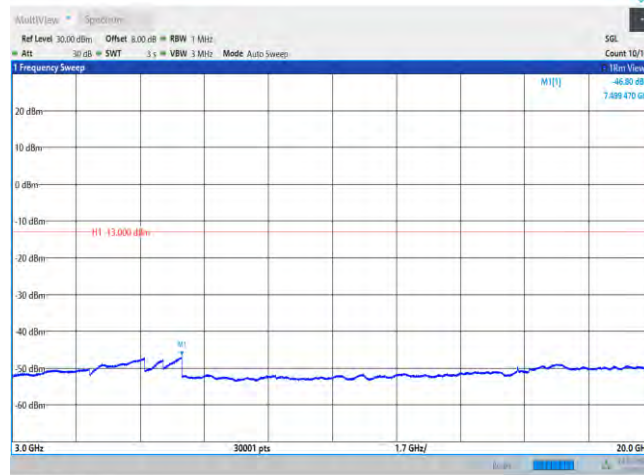
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EGPRS1900-810-2-1000~3000MHz



14:48:08 24.12.2021

EGPRS1900-810-2-3000~20000MHz



14:48:50 24.12.2021



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Field Strength of Spurious Radiation

Test Band = GSM850

Test Channel = Low Channel

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.0000	59.71	-58.36	-13.00	45.36	165	305	Horizontal
2	2472.0000	71.83	-42.56	-13.00	29.56	197	248	Horizontal
3	3296.0000	65.59	-46.30	-13.00	33.30	247	243	Horizontal
4	4121.0000	55.17	-54.64	-13.00	41.64	367	138	Horizontal
5	4945.2000	50.78	-57.10	-13.00	44.10	214	238	Horizontal
6	8038.0000	49.36	-49.19	-13.00	36.19	256	360	Horizontal

Test Band = GSM850

Test Channel = Low Channel

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4000	54.13	-63.94	-13.00	50.94	185	109	Vertical
2	2472.0000	66.88	-47.51	-13.00	34.51	163	296	Vertical
3	3296.0000	59.20	-52.69	-13.00	39.69	201	57	Vertical
4	4121.0000	52.11	-57.70	-13.00	44.70	342	1	Vertical
5	4945.2000	51.41	-56.47	-13.00	43.47	192	43	Vertical
6	8130.0000	49.14	-48.96	-13.00	35.96	108	262	Vertical



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Test Band = GSM850
Test Channel =Mid Channel

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.0000	60.40	-57.61	-13.00	44.61	169	328	Horizontal
2	2509.2000	75.56	-38.56	-13.00	25.56	146	337	Horizontal
3	3345.6000	66.44	-45.55	-13.00	32.55	102	94	Horizontal
4	4182.0000	58.35	-51.18	-13.00	38.18	134	318	Horizontal
5	5018.4000	50.37	-57.22	-13.00	44.22	204	285	Horizontal
6	7792.0000	48.96	-49.96	-13.00	36.96	357	309	Horizontal

Test Band = GSM850
Test Channel =Mid Channel

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.0000	56.99	-61.02	-13.00	48.02	154	5	Vertical
2	2508.0000	73.91	-40.20	-13.00	27.20	163	305	Vertical
3	3345.6000	63.53	-48.46	-13.00	35.46	247	204	Vertical
4	4182.0000	55.32	-54.21	-13.00	41.21	358	61	Vertical
5	5018.4000	50.34	-57.25	-13.00	44.25	125	142	Vertical
6	8556.0000	48.30	-48.63	-13.00	35.63	355	281	Vertical



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Test Band = GSM850
Test Channel =High Channel

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6000	71.88	-46.07	-13.00	33.07	185	242	Horizontal
2	2546.0000	81.73	-32.44	-13.00	19.44	163	251	Horizontal
3	3395.2000	67.23	-44.86	-13.00	31.86	205	94	Horizontal
4	4244.0000	66.05	-43.33	-13.00	30.33	164	137	Horizontal
5	5092.8000	51.09	-56.19	-13.00	43.19	196	223	Horizontal
6	7830.0000	49.76	-49.15	-13.00	36.15	321	360	Horizontal

Test Band = GSM850
Test Channel =High Channel

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6000	64.46	-53.49	-13.00	40.49	169	276	Vertical
2	2546.0000	76.73	-37.44	-13.00	24.44	185	300	Vertical
3	3395.2000	63.41	-48.68	-13.00	35.68	246	56	Vertical
4	4244.0000	59.55	-49.83	-13.00	36.83	351	191	Vertical
5	5092.8000	50.28	-57.00	-13.00	44.00	251	243	Vertical
6	8522.0000	48.64	-48.44	-13.00	35.44	108	348	Vertical



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Test Band = PCS1900
Test Channel =Low Channel

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3700.5000	67.07	-44.01	-13.00	31.01	345	75	Horizontal
2	5550.6000	50.35	-56.02	-13.00	43.02	216	332	Horizontal
3	7400.8000	51.39	-49.41	-13.00	36.41	196	38	Horizontal
4	9251.0000	45.95	-49.13	-13.00	36.13	185	350	Horizontal
5	11101.2000	55.84	-35.30	-13.00	22.30	108	7	Horizontal
6	17796.7500	40.87	-43.42	-13.00	30.42	251	350	Horizontal

Test Band = PCS1900
Test Channel =Low Channel

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3700.5000	72.76	-38.32	-13.00	25.32	165	270	Vertical
2	5550.6000	55.46	-50.91	-13.00	37.91	196	3	Vertical
3	7400.8000	51.71	-49.09	-13.00	36.09	321	1	Vertical
4	9251.0000	45.05	-50.03	-13.00	37.03	215	13	Vertical
5	11101.2000	55.25	-35.89	-13.00	22.89	155	332	Vertical
6	17790.0000	41.41	-42.92	-13.00	29.92	318	38	Vertical



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Test Band = PCS1900
Test Channel =Mid Channel

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3759.7500	65.71	-45.07	-13.00	32.07	185	71	Horizontal
2	5640.0000	65.20	-40.82	-13.00	27.82	163	170	Horizontal
3	7520.0000	50.73	-49.52	-13.00	36.52	216	270	Horizontal
4	9400.0000	46.56	-48.30	-13.00	35.30	306	1	Horizontal
5	11280.0000	50.87	-40.35	-13.00	27.35	192	313	Horizontal
6	16465.5000	43.59	-45.64	-13.00	32.64	186	27	Horizontal

Test Band = PCS1900
Test Channel =Mid Channel

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3759.7500	68.22	-42.56	-13.00	29.56	203	23	Vertical
2	5640.0000	67.40	-38.62	-13.00	25.62	235	282	Vertical
3	7520.0000	49.74	-50.51	-13.00	37.51	192	85	Vertical
4	9400.0000	45.54	-49.32	-13.00	36.32	312	1	Vertical
5	11280.0000	47.39	-43.83	-13.00	30.83	106	344	Vertical
6	16955.2500	41.99	-46.24	-13.00	33.24	195	163	Vertical



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Test Band = PCS1900
Test Channel =High Channel

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3819.6000	56.55	-53.98	-13.00	40.98	169	188	Horizontal
2	5728.5000	56.22	-49.37	-13.00	36.37	185	113	Horizontal
3	7639.2000	49.01	-50.76	-13.00	37.76	346	44	Horizontal
4	9549.0000	45.82	-49.02	-13.00	36.02	296	0	Horizontal
5	11458.8000	43.68	-47.70	-13.00	34.70	186	163	Horizontal
6	13368.7500	50.48	-40.09	-13.00	27.09	108	25	Horizontal

Test Band = PCS1900
Test Channel =High Channel

Data List								
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3819.6000	59.95	-50.58	-13.00	37.58	185	238	Vertical
2	5728.5000	58.11	-47.48	-13.00	34.48	163	357	Vertical
3	7639.2000	48.51	-51.26	-13.00	38.26	198	232	Vertical
4	9549.0000	45.16	-49.68	-13.00	36.68	204	189	Vertical
5	11458.8000	42.13	-49.25	-13.00	36.25	322	308	Vertical
6	13368.7500	45.95	-44.62	-13.00	31.62	162	327	Vertical



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Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VL	NT	20.66	0.025067	±2.5	PASS
GSM850	128	VN	NT	18.14	0.022009	±2.5	PASS
GSM850	128	VH	NT	18.34	0.022252	±2.5	PASS
GSM850	190	VL	NT	13.88	0.016591	±2.5	PASS
GSM850	190	VN	NT	19.92	0.023811	±2.5	PASS
GSM850	190	VH	NT	18.66	0.022305	±2.5	PASS
GSM850	251	VL	NT	18.76	0.022102	±2.5	PASS
GSM850	251	VN	NT	17.14	0.020193	±2.5	PASS
GSM850	251	VH	NT	23.96	0.028228	±2.5	PASS
EGPRS850	128	VL	NT	28.02	0.033997	±2.5	PASS
EGPRS850	128	VN	NT	27.06	0.032832	±2.5	PASS
EGPRS850	128	VH	NT	27.28	0.033099	±2.5	PASS
EGPRS850	190	VL	NT	25.67	0.030684	±2.5	PASS
EGPRS850	190	VN	NT	26.51	0.031688	±2.5	PASS
EGPRS850	190	VH	NT	26.09	0.031186	±2.5	PASS
EGPRS850	251	VL	NT	26.47	0.031185	±2.5	PASS
EGPRS850	251	VN	NT	27.64	0.032564	±2.5	PASS
EGPRS850	251	VH	NT	23.99	0.028263	±2.5	PASS



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Voltage						
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	512	VL	NT	12.56	0.006788	PASS
GSM1900	512	VN	NT	14.27	0.007713	PASS
GSM1900	512	VH	NT	11.14	0.006021	PASS
GSM1900	661	VL	NT	5.23	0.002782	PASS
GSM1900	661	VN	NT	8.56	0.004553	PASS
GSM1900	661	VH	NT	3.20	0.001702	PASS
GSM1900	810	VL	NT	13.69	0.007168	PASS
GSM1900	810	VN	NT	11.24	0.005885	PASS
GSM1900	810	VH	NT	9.20	0.004817	PASS
EGPRS1900	512	VL	NT	29.02	0.015685	PASS
EGPRS1900	512	VN	NT	29.06	0.015706	PASS
EGPRS1900	512	VH	NT	29.41	0.015896	PASS
EGPRS1900	661	VL	NT	16.69	0.008878	PASS
EGPRS1900	661	VN	NT	17.50	0.009309	PASS
EGPRS1900	661	VH	NT	23.28	0.012383	PASS
EGPRS1900	810	VL	NT	23.25	0.012174	PASS
EGPRS1900	810	VN	NT	22.79	0.011933	PASS
EGPRS1900	810	VH	NT	23.28	0.012190	PASS



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Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	18.40	0.022325	±2.5	PASS
GSM850	128	NV	-20	21.60	0.026207	±2.5	PASS
GSM850	128	NV	-10	16.56	0.020092	±2.5	PASS
GSM850	128	NV	0	15.85	0.019231	±2.5	PASS
GSM850	128	NV	10	16.27	0.019740	±2.5	PASS
GSM850	128	NV	20	19.82	0.024048	±2.5	PASS
GSM850	128	NV	30	16.30	0.019777	±2.5	PASS
GSM850	128	NV	40	17.27	0.020954	±2.5	PASS
GSM850	128	NV	50	20.44	0.024800	±2.5	PASS
GSM850	190	NV	-30	22.12	0.026440	±2.5	PASS
GSM850	190	NV	-20	16.01	0.019137	±2.5	PASS
GSM850	190	NV	-10	19.82	0.023691	±2.5	PASS
GSM850	190	NV	0	16.72	0.019986	±2.5	PASS
GSM850	190	NV	10	17.47	0.020882	±2.5	PASS
GSM850	190	NV	20	15.79	0.018874	±2.5	PASS
GSM850	190	NV	30	19.47	0.023273	±2.5	PASS
GSM850	190	NV	40	16.79	0.020069	±2.5	PASS
GSM850	190	NV	50	22.79	0.027241	±2.5	PASS
GSM850	251	NV	-30	17.18	0.020240	±2.5	PASS
GSM850	251	NV	-20	19.95	0.023504	±2.5	PASS
GSM850	251	NV	-10	17.72	0.020877	±2.5	PASS
GSM850	251	NV	0	20.21	0.023810	±2.5	PASS
GSM850	251	NV	10	16.14	0.019015	±2.5	PASS
GSM850	251	NV	20	16.66	0.019628	±2.5	PASS
GSM850	251	NV	30	16.63	0.019592	±2.5	PASS
GSM850	251	NV	40	17.63	0.020770	±2.5	PASS
GSM850	251	NV	50	16.98	0.020005	±2.5	PASS
EGPRS850	128	NV	-30	30.19	0.036629	±2.5	PASS
EGPRS850	128	NV	-20	28.38	0.034433	±2.5	PASS
EGPRS850	128	NV	-10	27.28	0.033099	±2.5	PASS
EGPRS850	128	NV	0	27.60	0.033487	±2.5	PASS
EGPRS850	128	NV	10	28.25	0.034276	±2.5	PASS



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EGPRS850	128	NV	20	27.15	0.032941	±2.5	PASS
EGPRS850	128	NV	30	29.54	0.035841	±2.5	PASS
EGPRS850	128	NV	40	27.80	0.033730	±2.5	PASS
EGPRS850	128	NV	50	25.41	0.030830	±2.5	PASS
EGPRS850	190	NV	-30	28.73	0.034341	±2.5	PASS
EGPRS850	190	NV	-20	25.18	0.030098	±2.5	PASS
EGPRS850	190	NV	-10	28.09	0.033576	±2.5	PASS
EGPRS850	190	NV	0	27.83	0.033266	±2.5	PASS
EGPRS850	190	NV	10	26.57	0.031760	±2.5	PASS
EGPRS850	190	NV	20	27.09	0.032381	±2.5	PASS
EGPRS850	190	NV	30	27.22	0.032536	±2.5	PASS
EGPRS850	190	NV	40	26.25	0.031377	±2.5	PASS
EGPRS850	190	NV	50	24.60	0.029405	±2.5	PASS
EGPRS850	251	NV	-30	26.76	0.031527	±2.5	PASS
EGPRS850	251	NV	-20	25.47	0.030007	±2.5	PASS
EGPRS850	251	NV	-10	25.63	0.030196	±2.5	PASS
EGPRS850	251	NV	0	26.47	0.031185	±2.5	PASS
EGPRS850	251	NV	10	26.44	0.031150	±2.5	PASS
EGPRS850	251	NV	20	25.80	0.030396	±2.5	PASS
EGPRS850	251	NV	30	25.70	0.030278	±2.5	PASS
EGPRS850	251	NV	40	24.54	0.028911	±2.5	PASS
EGPRS850	251	NV	50	25.57	0.030125	±2.5	PASS



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Temperature						
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	512	NV	-20	10.40	0.005621	PASS
GSM1900	512	NV	-10	10.72	0.005794	PASS
GSM1900	512	NV	0	10.59	0.005724	PASS
GSM1900	512	NV	10	12.49	0.006751	PASS
GSM1900	512	NV	20	18.31	0.009896	PASS
GSM1900	512	NV	30	13.17	0.007118	PASS
GSM1900	512	NV	40	7.68	0.004151	PASS
GSM1900	512	NV	50	9.91	0.005356	PASS
GSM1900	661	NV	-20	3.91	0.002080	PASS
GSM1900	661	NV	-10	1.29	0.000686	PASS
GSM1900	661	NV	0	7.81	0.004154	PASS
GSM1900	661	NV	10	2.26	0.001202	PASS
GSM1900	661	NV	20	10.72	0.005702	PASS
GSM1900	661	NV	30	5.75	0.003059	PASS
GSM1900	661	NV	40	6.30	0.003351	PASS
GSM1900	661	NV	50	3.75	0.001995	PASS
GSM1900	810	NV	-20	12.20	0.006388	PASS
GSM1900	810	NV	-10	11.04	0.005781	PASS
GSM1900	810	NV	0	10.94	0.005728	PASS
GSM1900	810	NV	10	9.01	0.004718	PASS
GSM1900	810	NV	20	6.46	0.003383	PASS
GSM1900	810	NV	30	11.30	0.005917	PASS
GSM1900	810	NV	40	12.27	0.006425	PASS
GSM1900	810	NV	50	4.78	0.002503	PASS
EGPRS1900	512	NV	-20	26.67	0.014415	PASS
EGPRS1900	512	NV	-10	27.77	0.015009	PASS
EGPRS1900	512	NV	0	25.89	0.013993	PASS
EGPRS1900	512	NV	10	24.34	0.013155	PASS
EGPRS1900	512	NV	20	25.47	0.013766	PASS
EGPRS1900	512	NV	30	25.80	0.013944	PASS
EGPRS1900	512	NV	40	28.73	0.015528	PASS
EGPRS1900	512	NV	50	28.86	0.015598	PASS
EGPRS1900	661	NV	-20	19.95	0.010612	PASS



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EGPRS1900	661	NV	-10	17.47	0.009293	PASS
EGPRS1900	661	NV	0	18.24	0.009702	PASS
EGPRS1900	661	NV	10	19.53	0.010388	PASS
EGPRS1900	661	NV	20	17.95	0.009548	PASS
EGPRS1900	661	NV	30	21.28	0.011319	PASS
EGPRS1900	661	NV	40	19.15	0.010186	PASS
EGPRS1900	661	NV	50	21.28	0.011319	PASS
EGPRS1900	810	NV	-20	22.99	0.012038	PASS
EGPRS1900	810	NV	-10	22.79	0.011933	PASS
EGPRS1900	810	NV	0	22.99	0.012038	PASS
EGPRS1900	810	NV	10	24.31	0.012729	PASS
EGPRS1900	810	NV	20	23.89	0.012509	PASS
EGPRS1900	810	NV	30	19.11	0.010006	PASS
EGPRS1900	810	NV	40	20.21	0.010582	PASS
EGPRS1900	810	NV	50	22.66	0.011865	PASS

The End



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