

Report No.: SEWM2206000064RG01

Rev.: 01

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Appendix B.1

GSM 850&1900



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
GSM850	128	33.01	29.36	38.45	PASS
GSM850	190	33.33	29.68	38.45	PASS
GSM850	251	33.68	30.03	38.45	PASS
Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	30.38	29.68	33.00	PASS
GSM1900	661	29.96	29.26	33.00	PASS
GSM1900	810	29.96	29.26	33.00	PASS



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Band	Channel	Slot	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	26.6	22.95	38.45	PASS
EGPRS850	128	2	25.4	21.75	38.45	PASS
EGPRS850	128	3	23.31	19.66	38.45	PASS
EGPRS850	128	4	22.25	18.6	38.45	PASS
EGPRS850	190	1	26.25	22.6	38.45	PASS
EGPRS850	190	2	25.19	21.54	38.45	PASS
EGPRS850	190	3	23.09	19.44	38.45	PASS
EGPRS850	190	4	21.92	18.27	38.45	PASS
EGPRS850	251	1	26.28	22.63	38.45	PASS
EGPRS850	251	2	25.21	21.56	38.45	PASS
EGPRS850	251	3	23.09	19.44	38.45	PASS
EGPRS850	251	4	22.03	18.38	38.45	PASS
Band	Channel	Slot	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	26.14	25.44	33.00	PASS
EGPRS1900	512	2	25.03	24.33	33.00	PASS
EGPRS1900	512	3	22.91	22.21	33.00	PASS
EGPRS1900	512	4	21.73	21.03	33.00	PASS
EGPRS1900	661	1	26.02	25.32	33.00	PASS
EGPRS1900	661	2	25.10	24.4	33.00	PASS
EGPRS1900	661	3	22.94	22.24	33.00	PASS
EGPRS1900	661	4	21.79	21.09	33.00	PASS
EGPRS1900	810	1	25.94	25.24	33.00	PASS
EGPRS1900	810	2	24.94	24.24	33.00	PASS
EGPRS1900	810	3	22.85	22.15	33.00	PASS
EGPRS1900	810	4	21.73	21.03	33.00	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	9.58	13	PASS
GSM850	190	9.52	13	PASS
GSM850	251	9.48	13	PASS
EGPRS850	128	12.58	13	PASS
EGPRS850	190	12.62	13	PASS
EGPRS850	251	12.42	13	PASS
GSM1900	512	9.42	13	PASS
GSM1900	661	9.52	13	PASS
GSM1900	810	9.52	13	PASS
EGPRS1900	512	12.56	13	PASS
EGPRS1900	661	12.46	13	PASS
EGPRS1900	810	12.32	13	PASS



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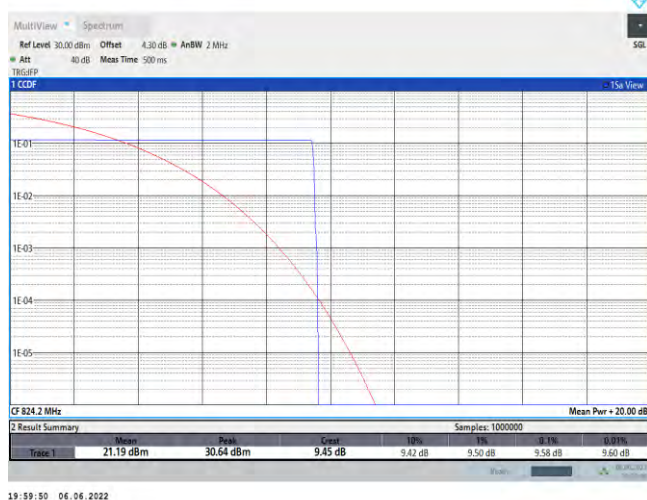
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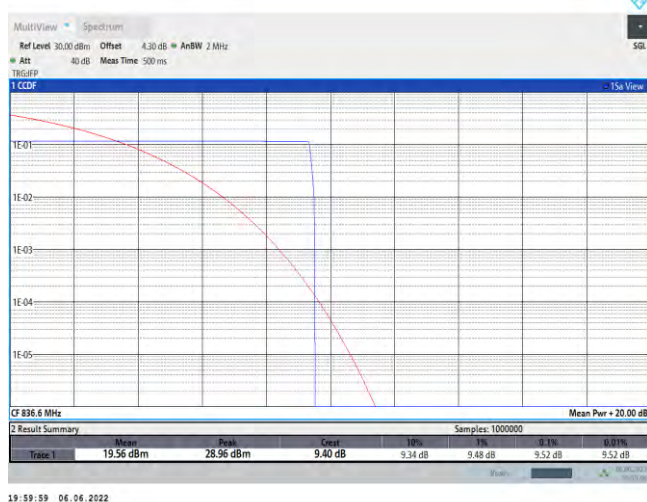
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Test Graphs

GSM850-128



GSM850-190

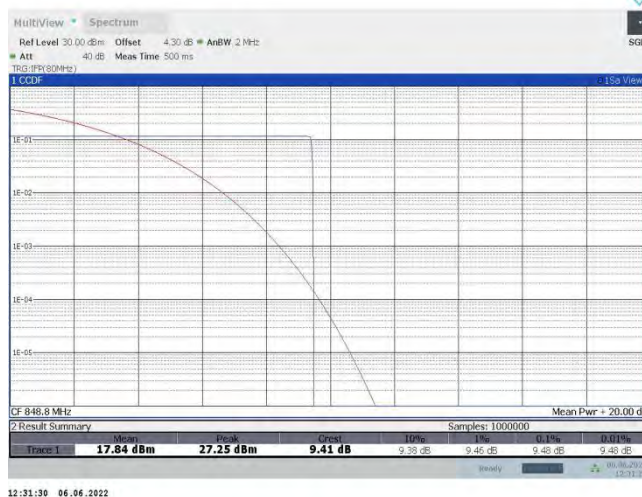


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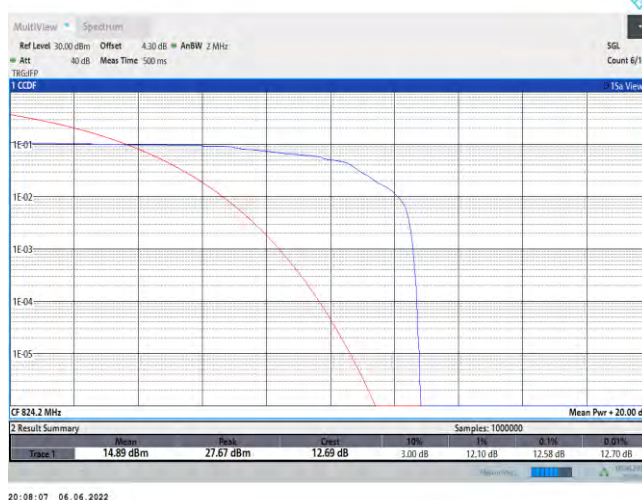
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GSM850-251



EGPRS850-128



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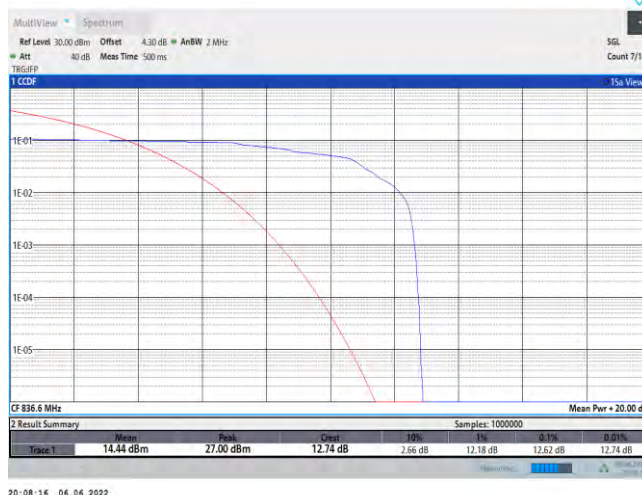
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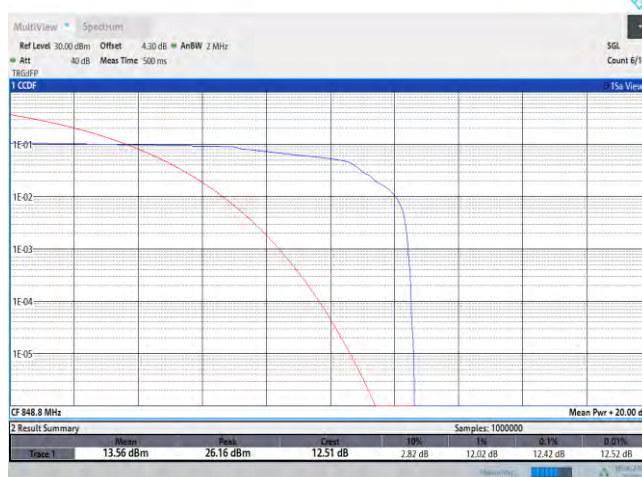
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EGPRS850-190



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EGPRS850-251



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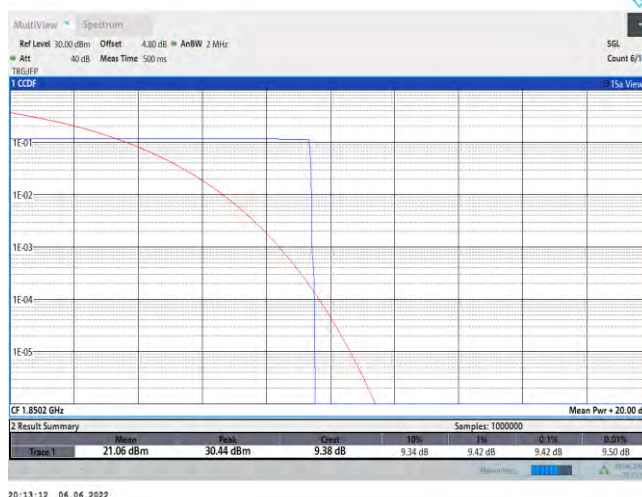
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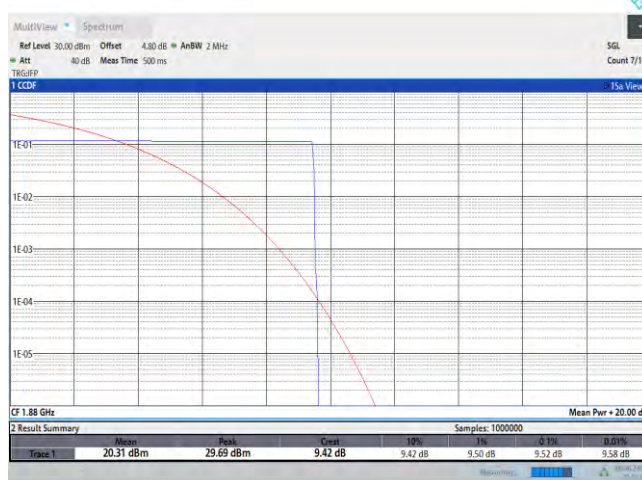
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GSM1900-661



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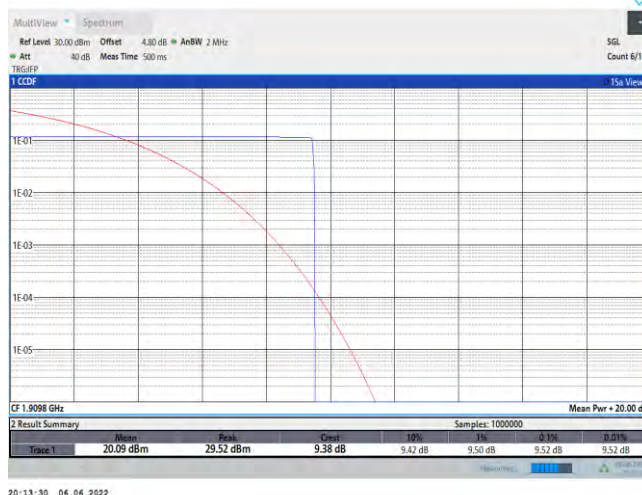
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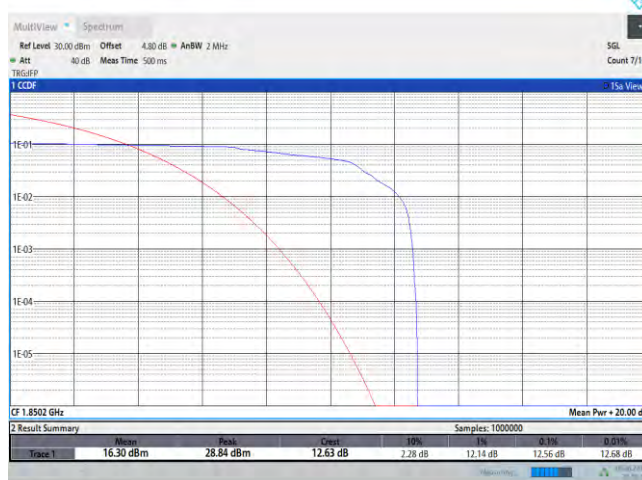
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GSM1900-810



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EGPRS1900-512



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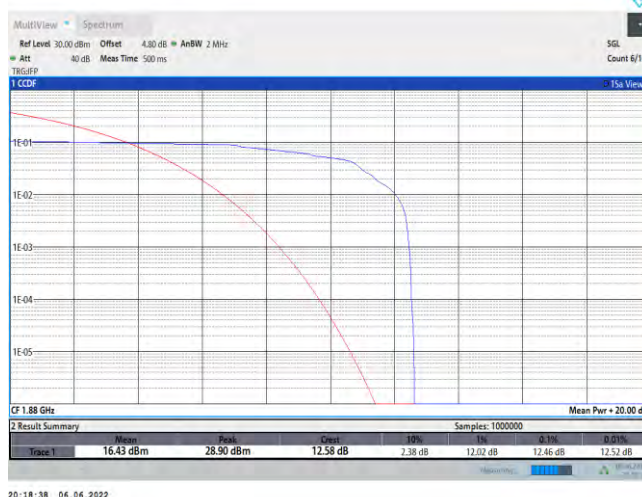


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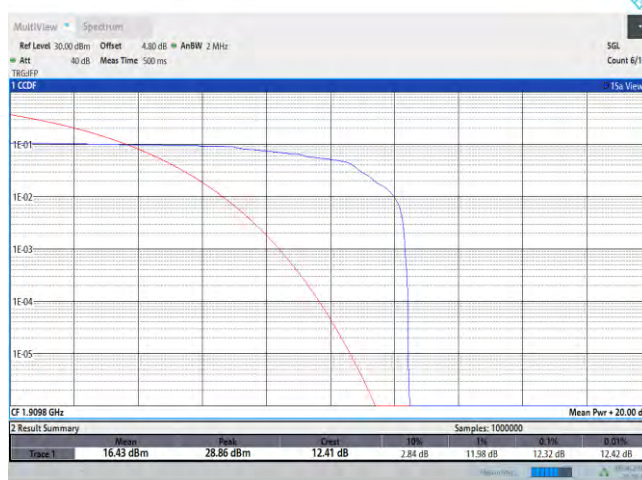
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EGPRS1900-810



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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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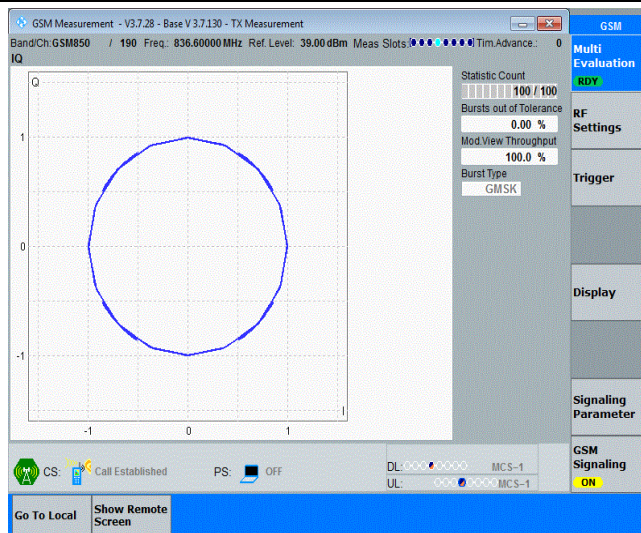
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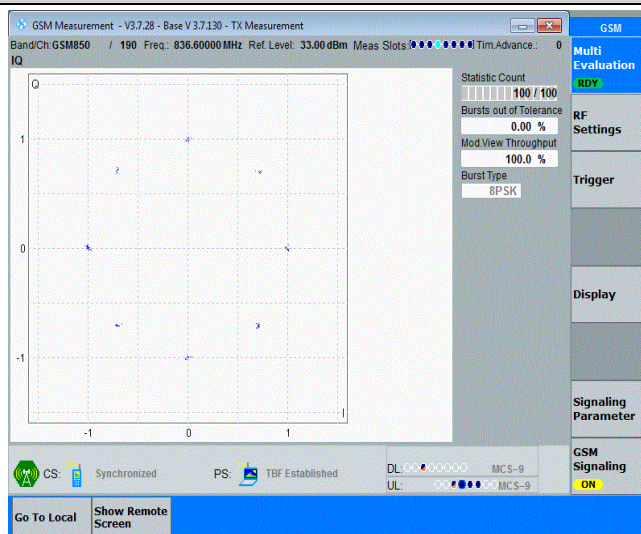
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Test Graphs

GSM850-190



EGPRS850-190



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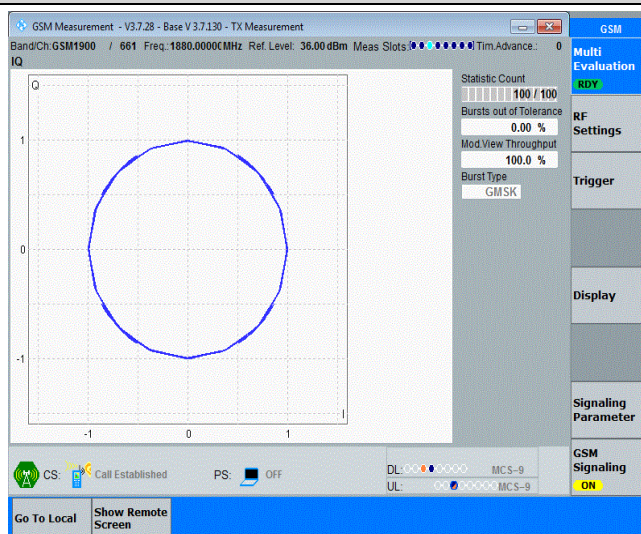
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Report No.: SEWM2206000064RG01

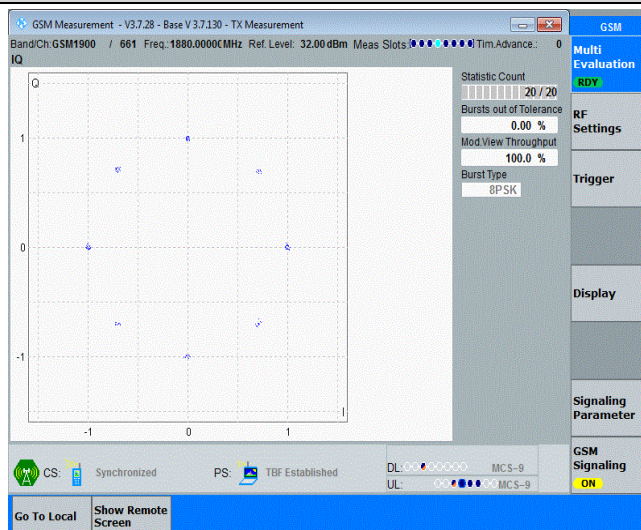
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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.249	0.32	---	PASS
GSM850	190	0.25	0.32	---	PASS
GSM850	251	0.248	0.32	---	PASS
EGPRS850	128	0.252	0.31	---	PASS
EGPRS850	190	0.251	0.32	---	PASS
EGPRS850	251	0.25	0.32	---	PASS
GSM1900	512	0.247	0.32	---	PASS
GSM1900	661	0.247	0.32	---	PASS
GSM1900	810	0.248	0.32	---	PASS
EGPRS1900	512	0.249	0.32	---	PASS
EGPRS1900	661	0.248	0.32	---	PASS
EGPRS1900	810	0.249	0.32	---	PASS



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Test Graphs

GSM850-128



GSM850-190



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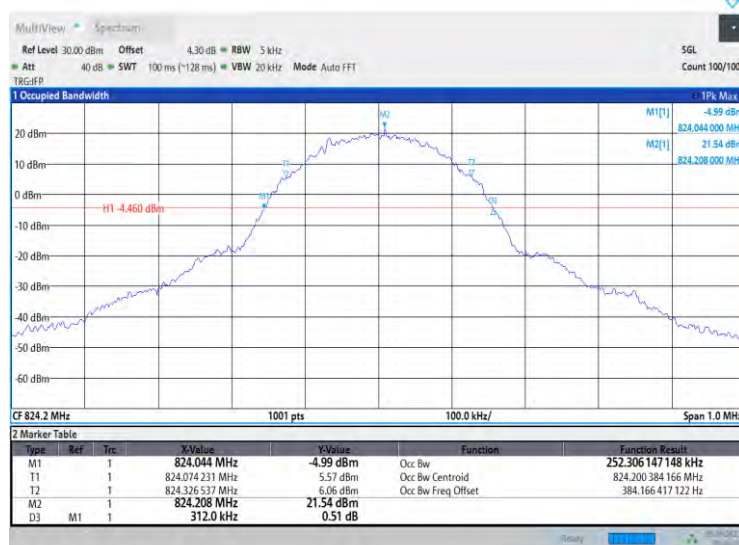
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20:02:53 06.06.2022

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20:09:16 06.06.2022



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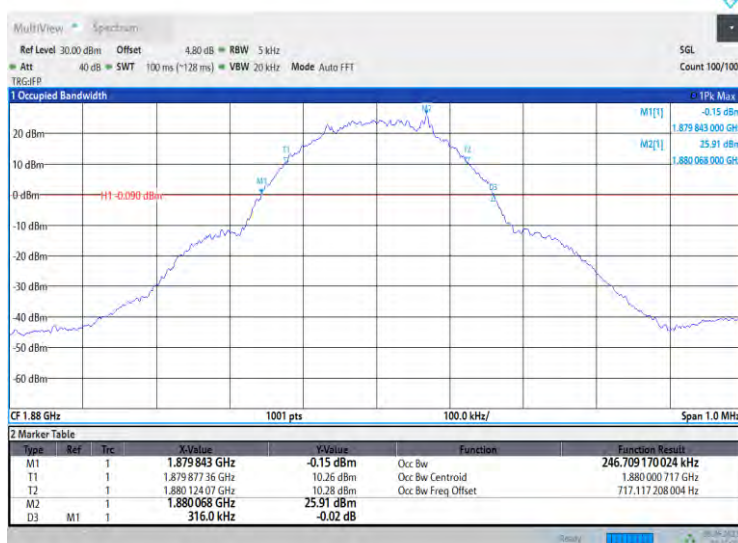
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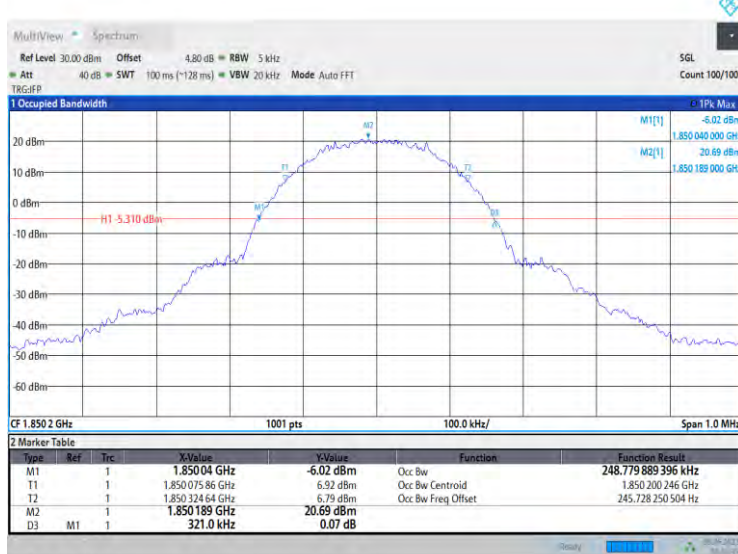
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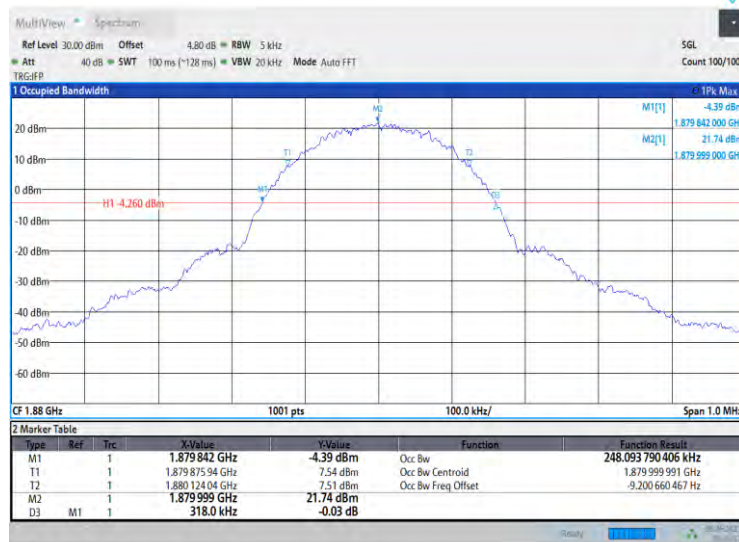


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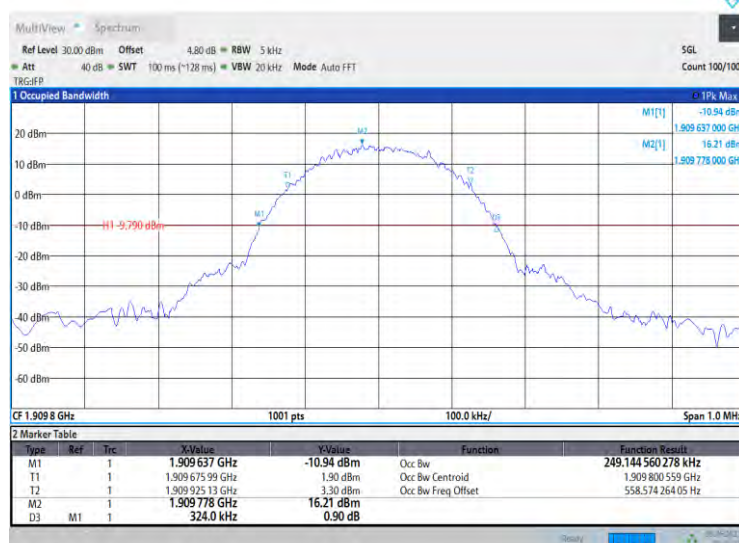
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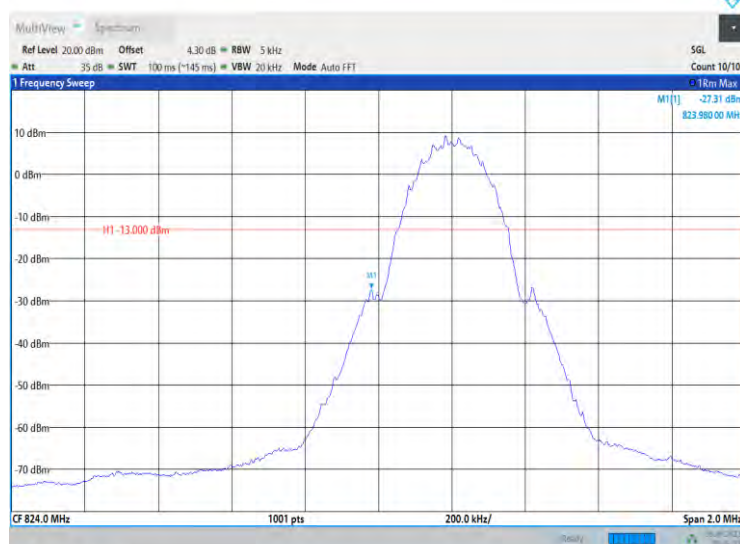
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Band Edge

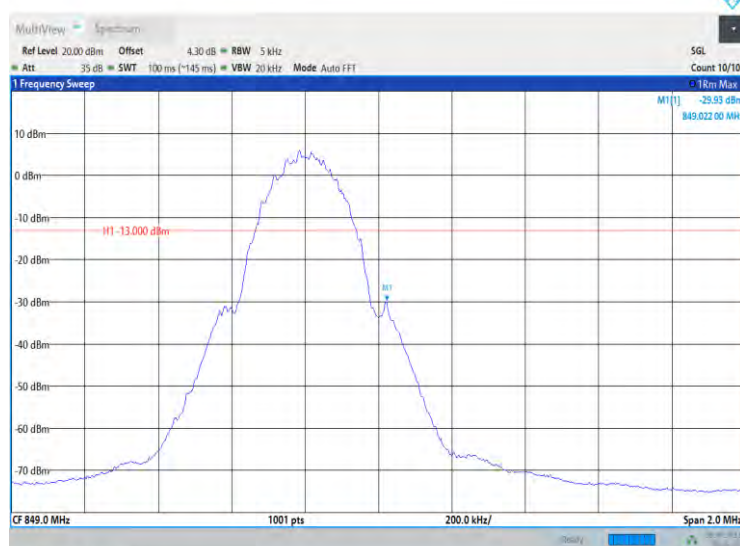
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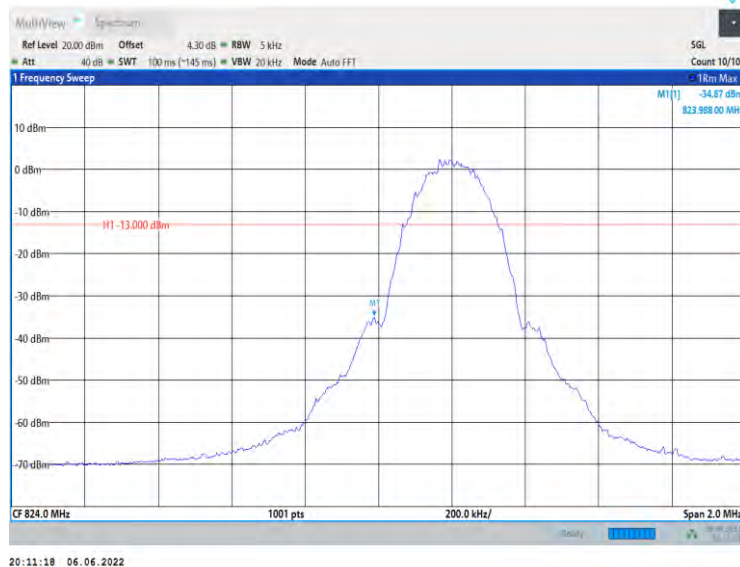


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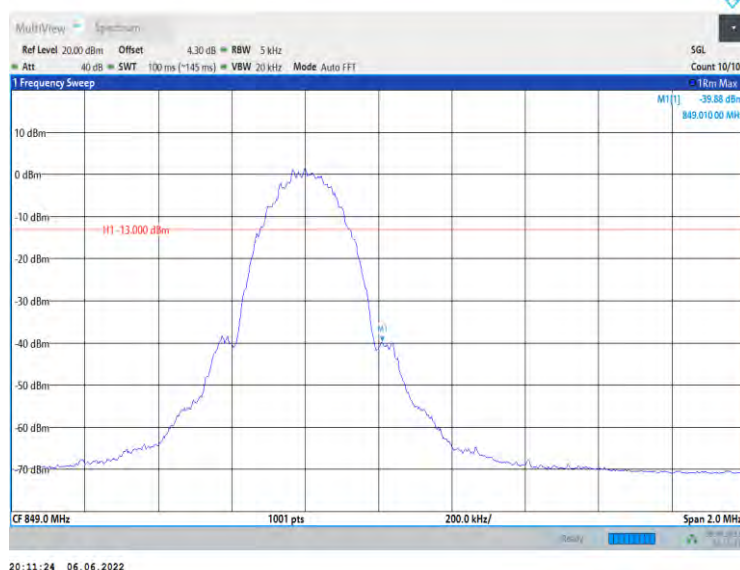
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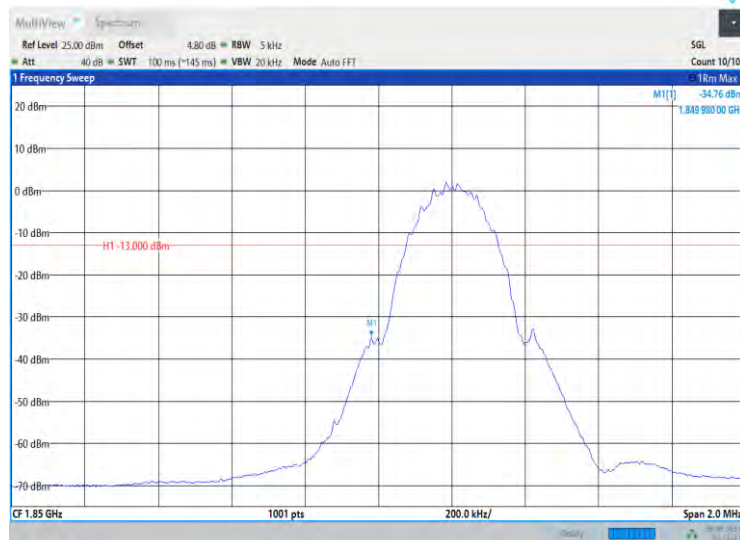
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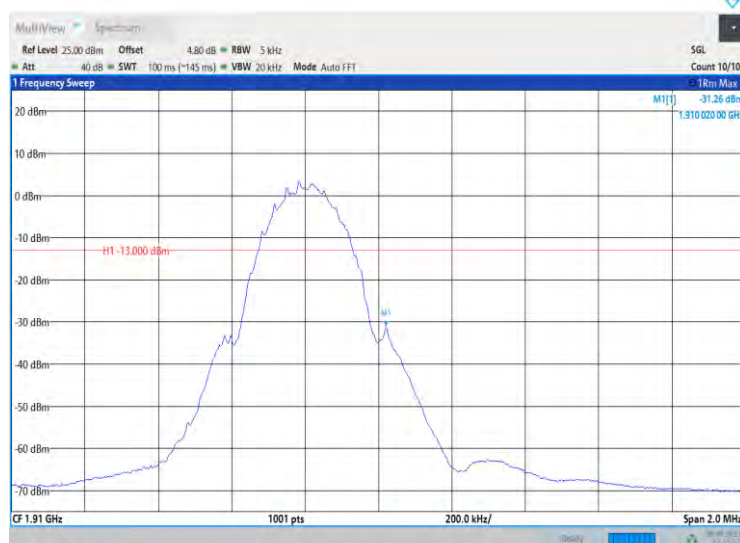
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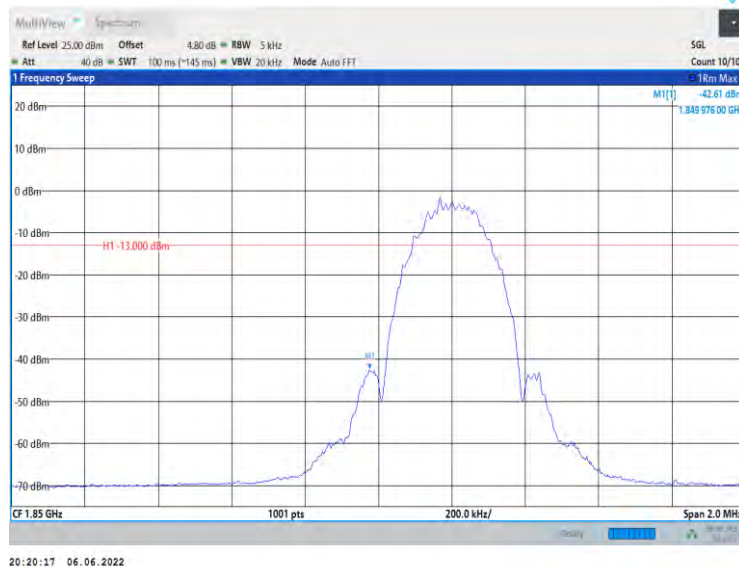
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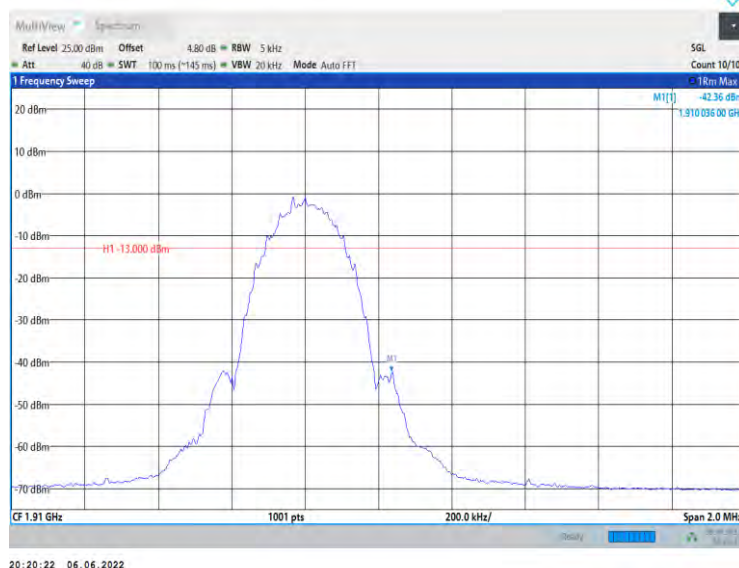
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Conducted Spurious Emission

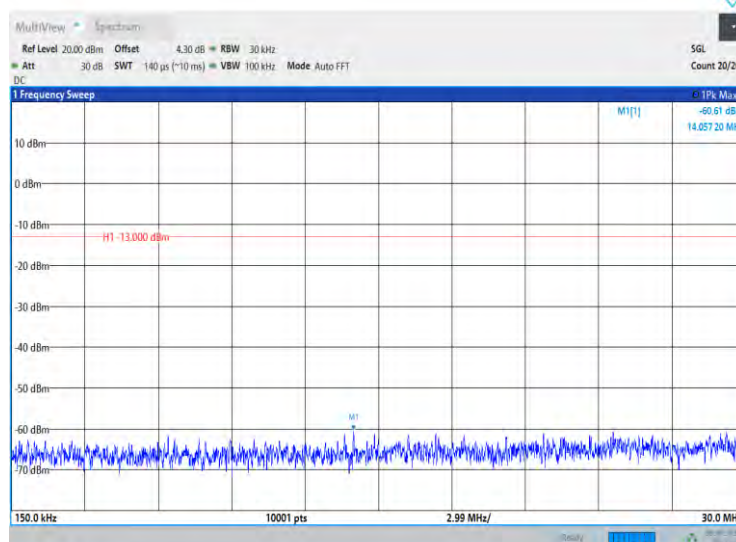
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GSM850-128-0.009~0.15MHz



20:33:24 06.06.2022

GSM850-128-0.15~30MHz



20:33:27 06.06.2022



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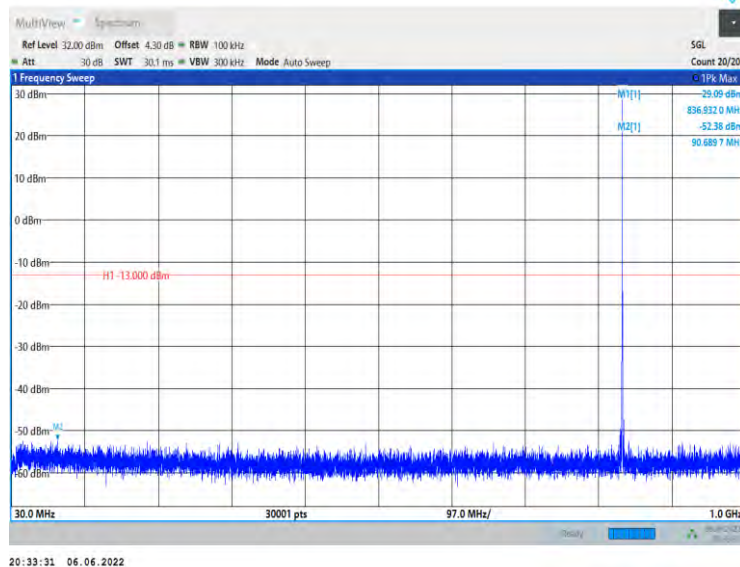
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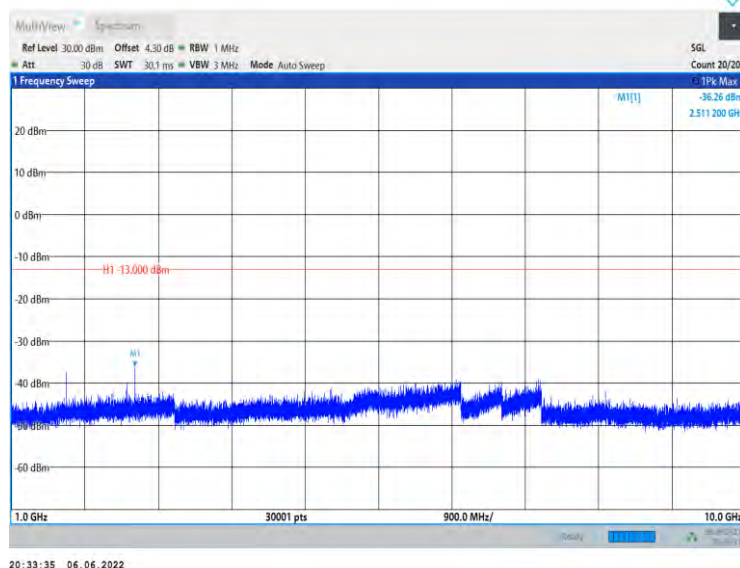
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GSM850-128-30~1000MHz



GSM850-128-1000~10000MHz



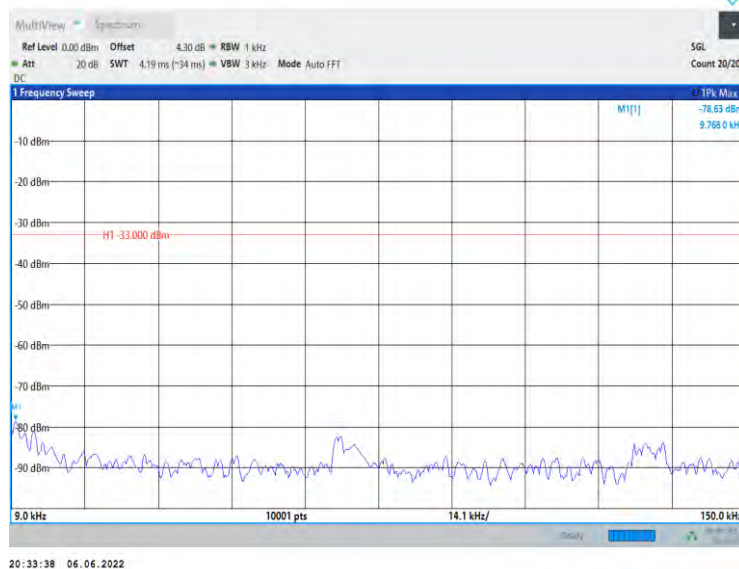
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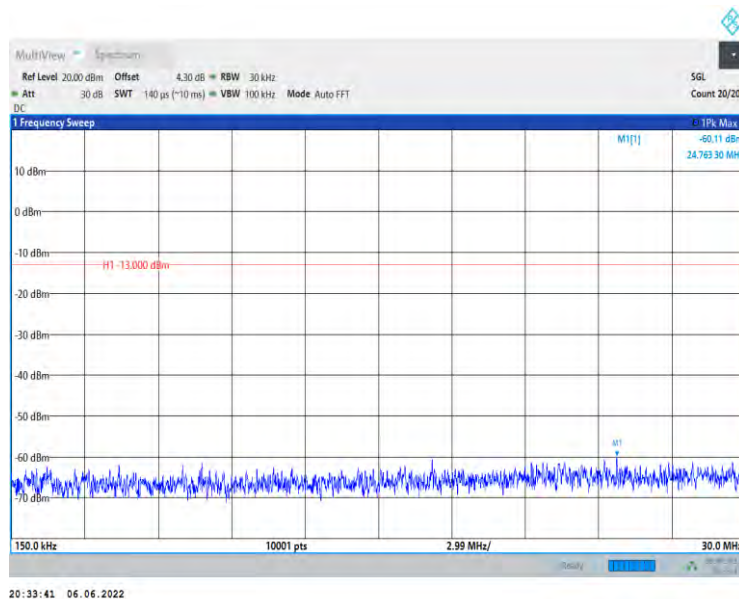
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GSM850-190-0.009~0.15MHz



GSM850-190-0.15~30MHz



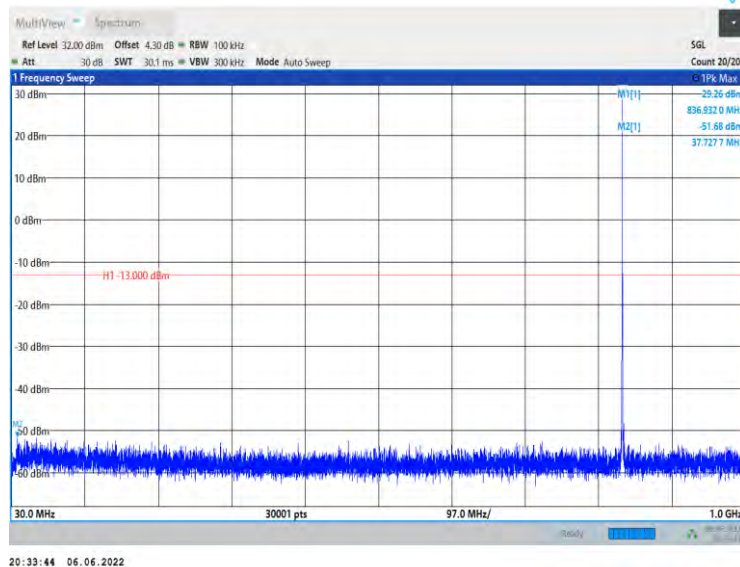
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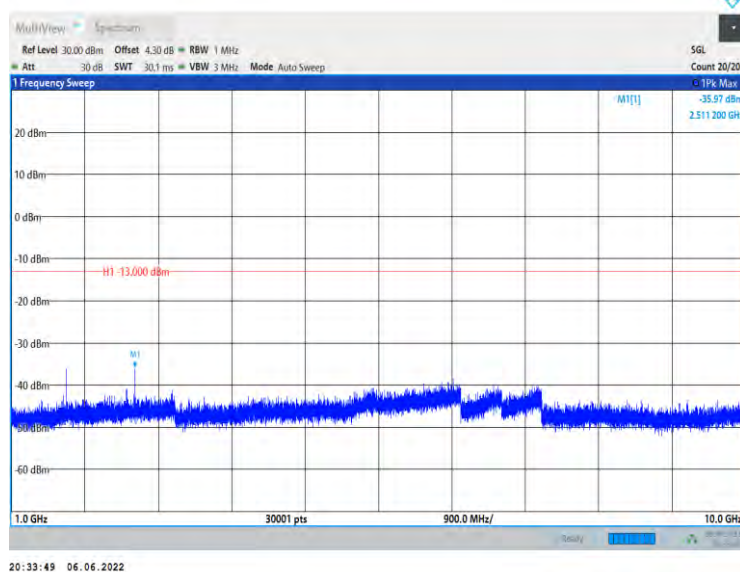
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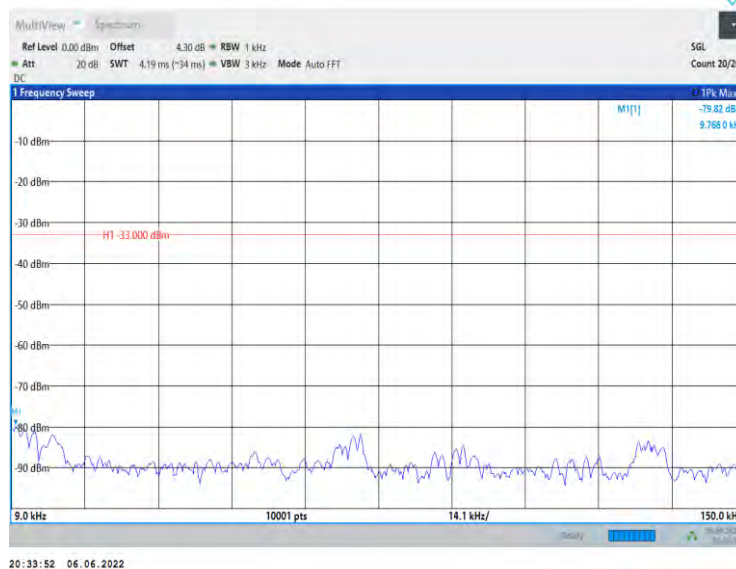
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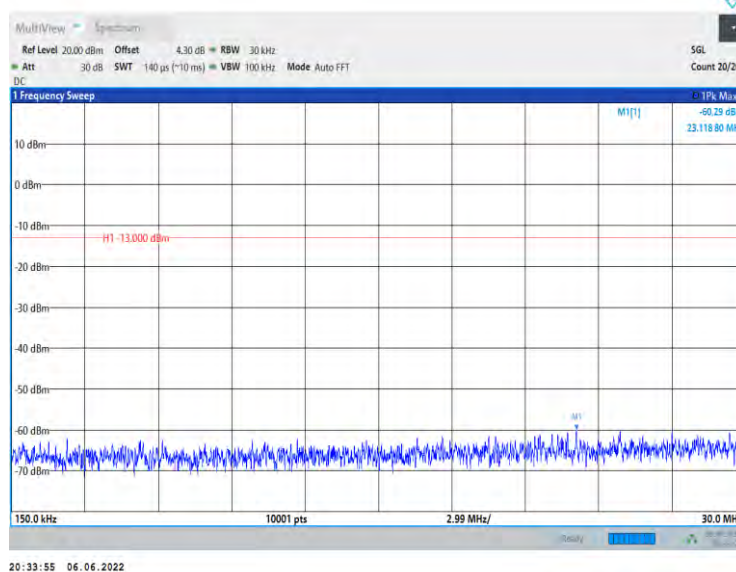
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GSM850-251-0.009~0.15MHz



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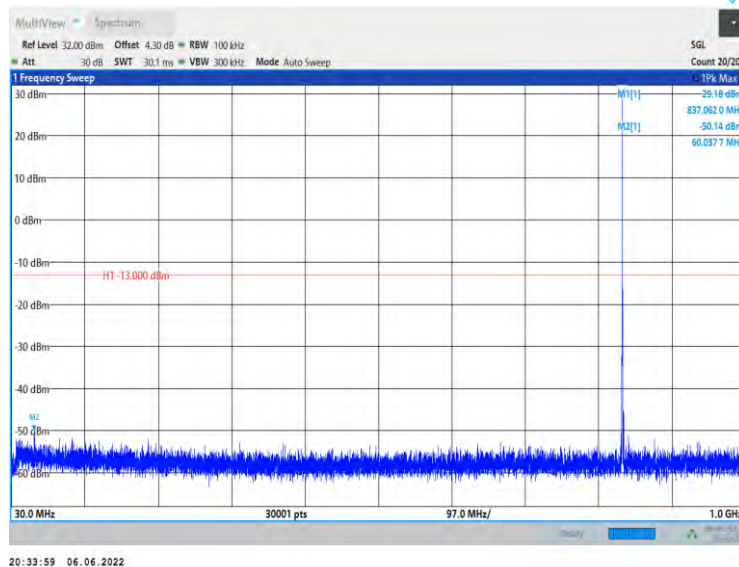
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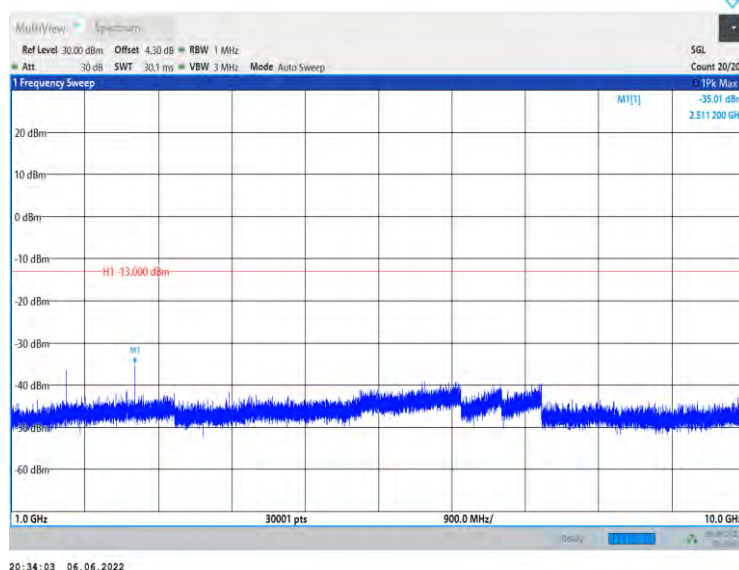
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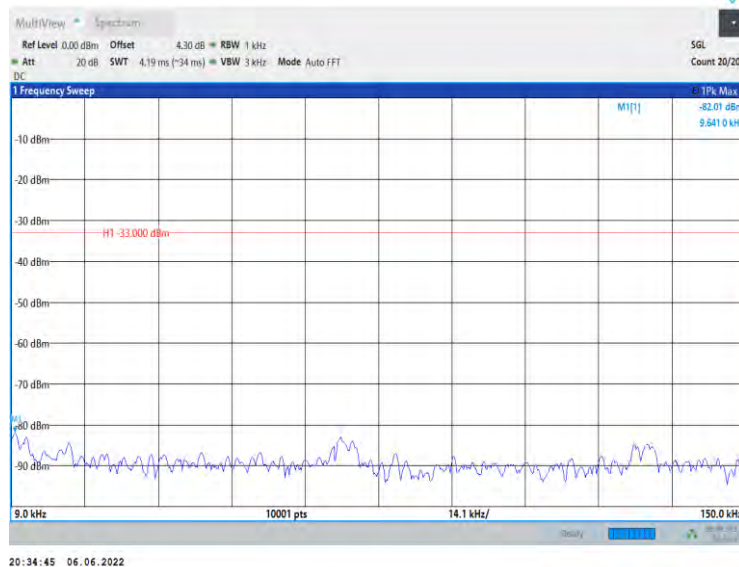


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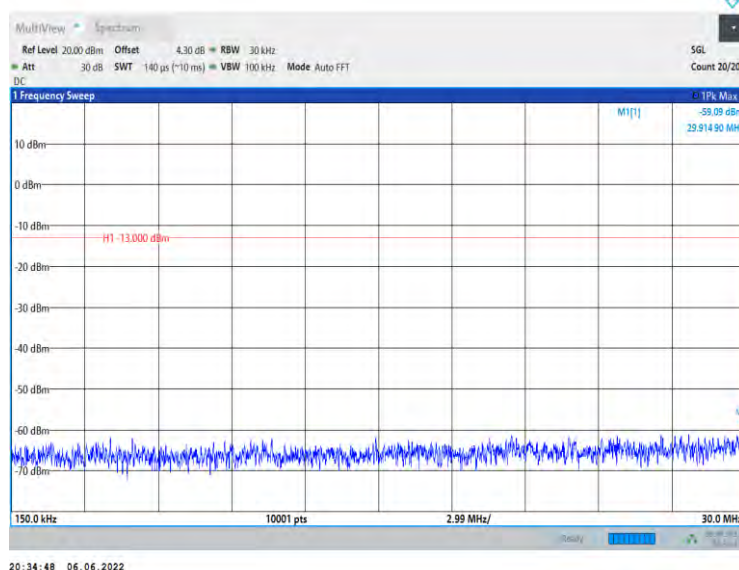
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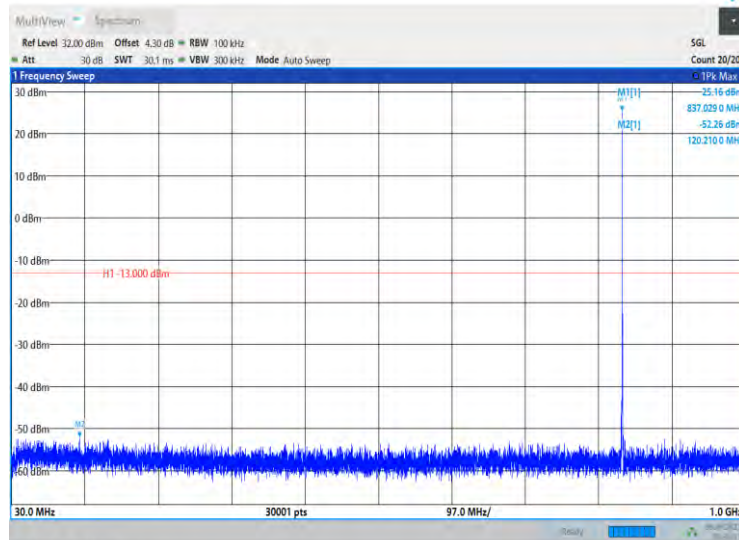
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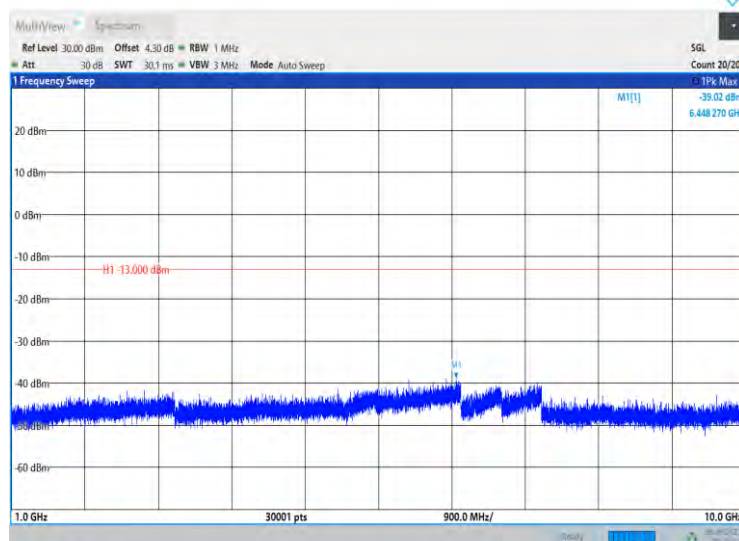
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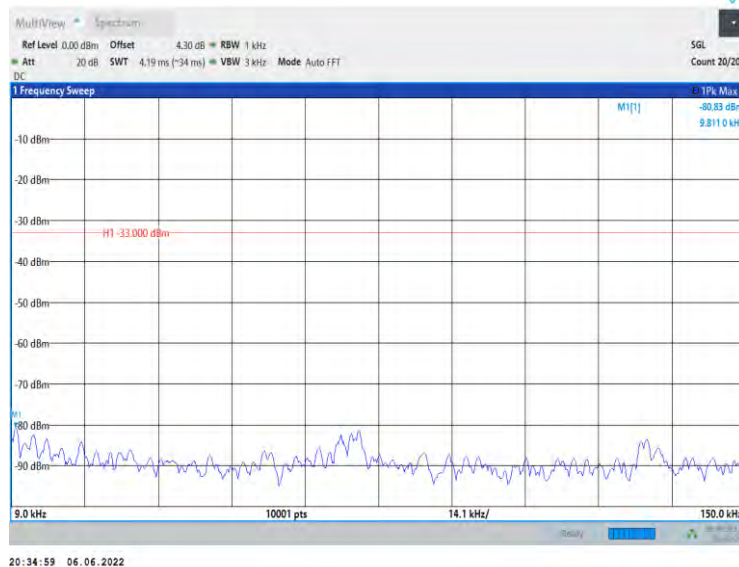
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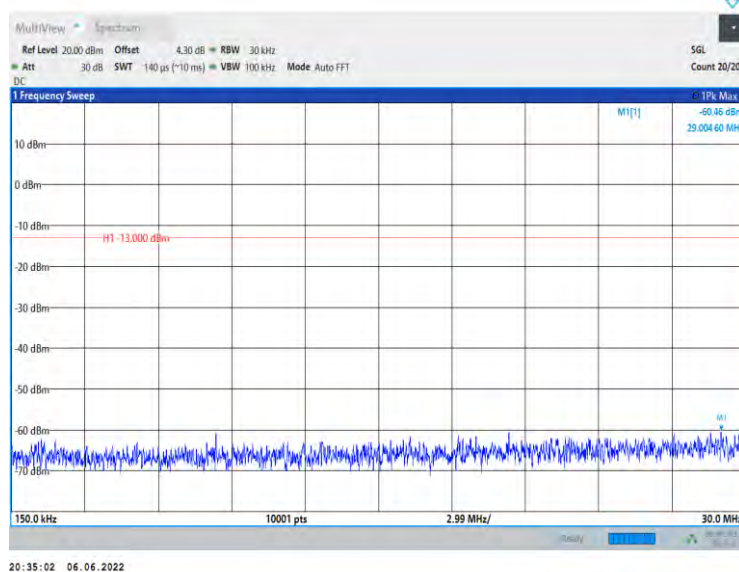
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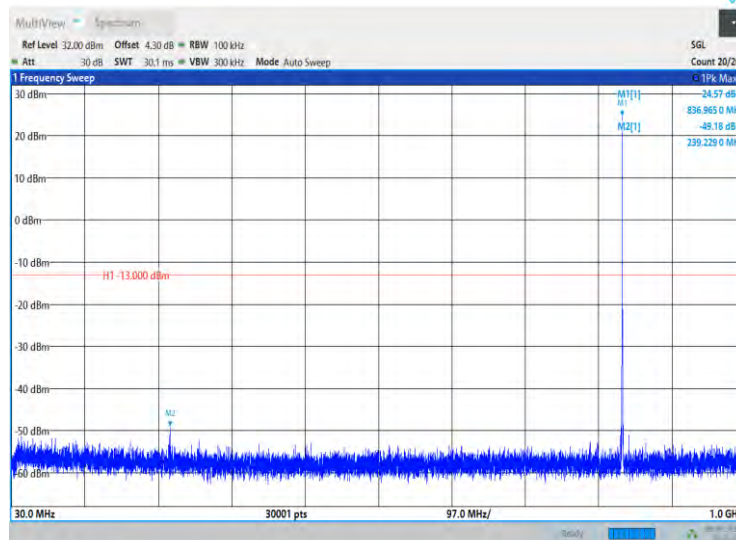
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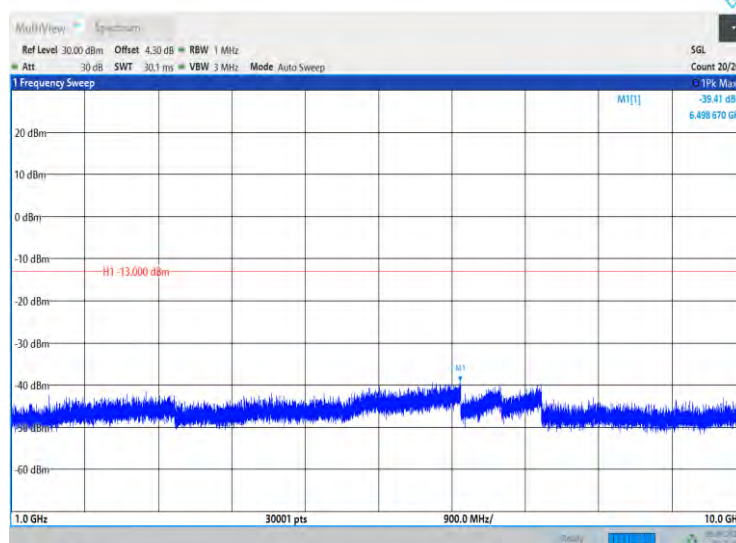
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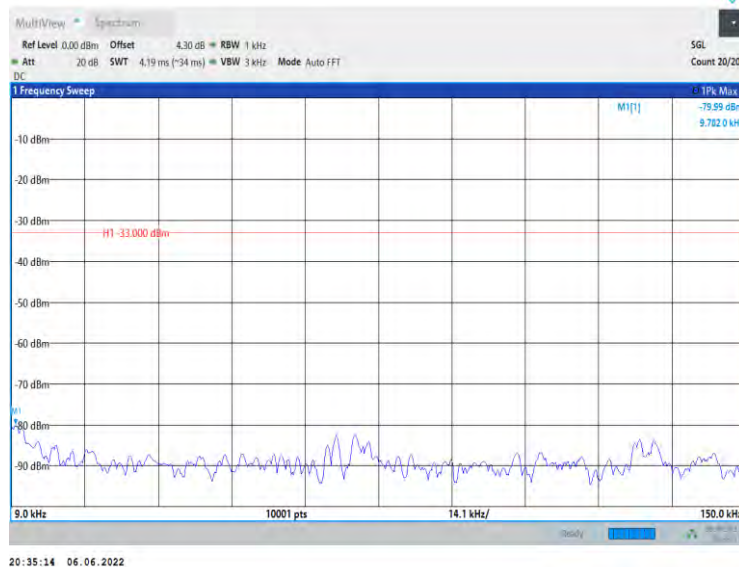
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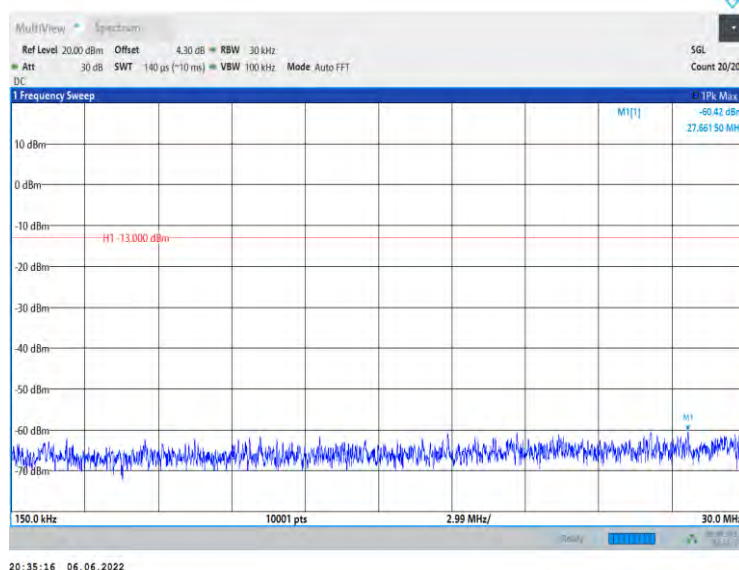
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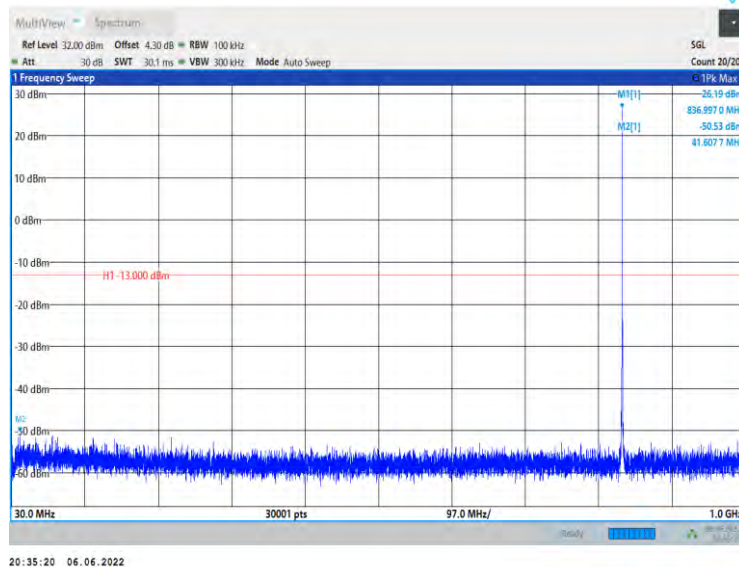
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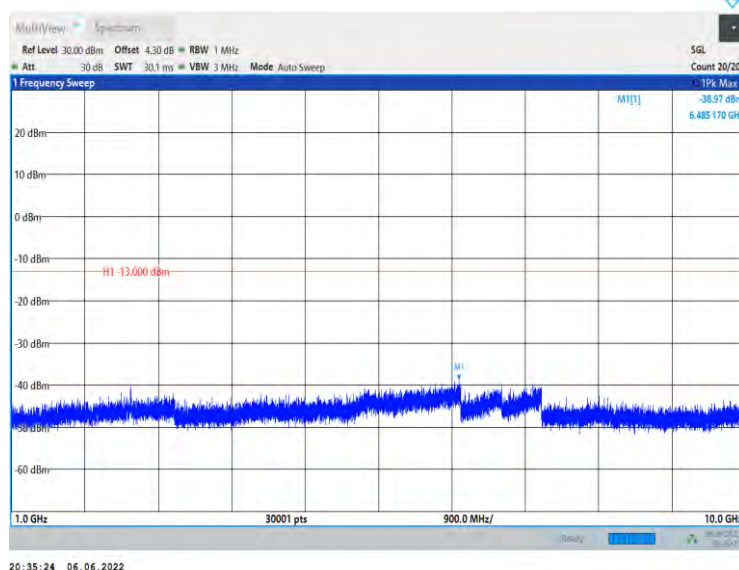
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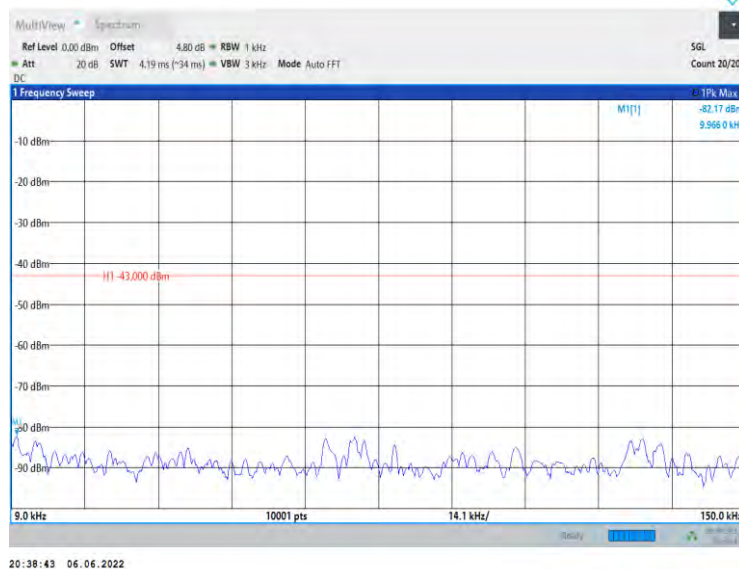
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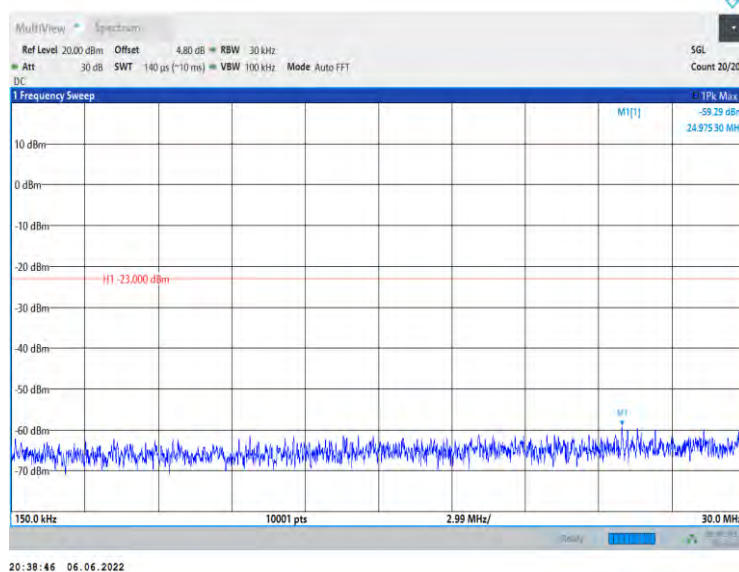
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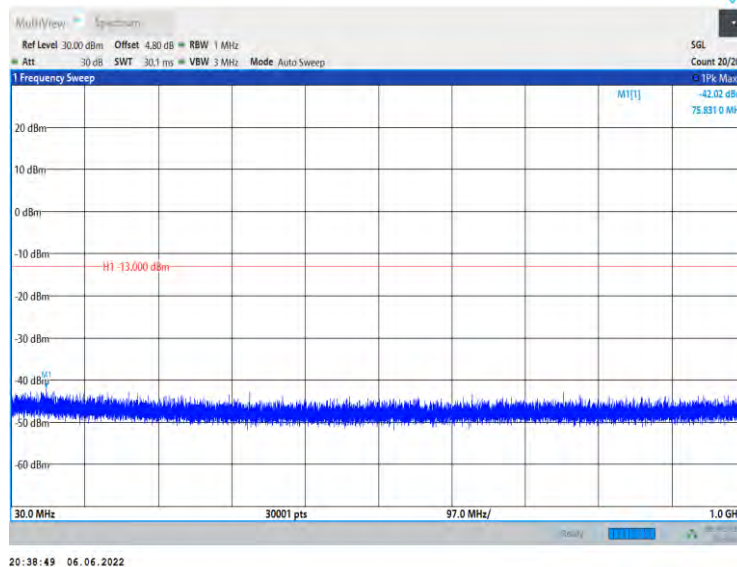
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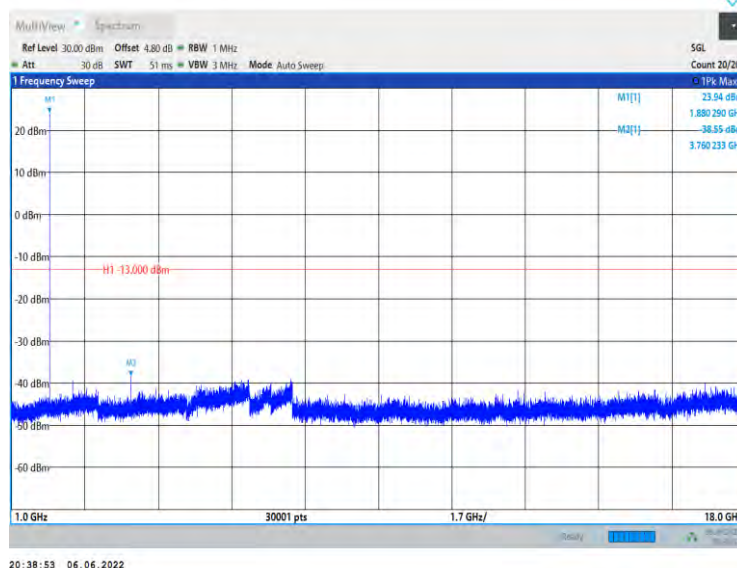
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GSM1900-512-30~1000MHz



GSM1900-512-1000~18000MHz

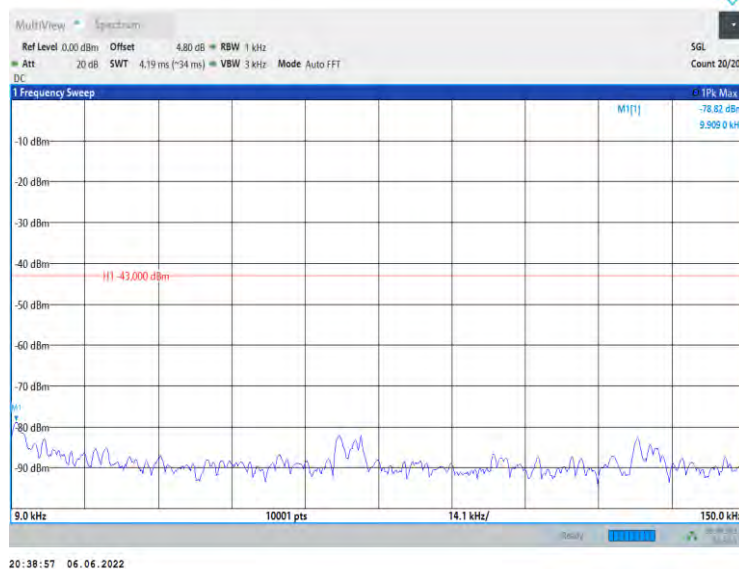


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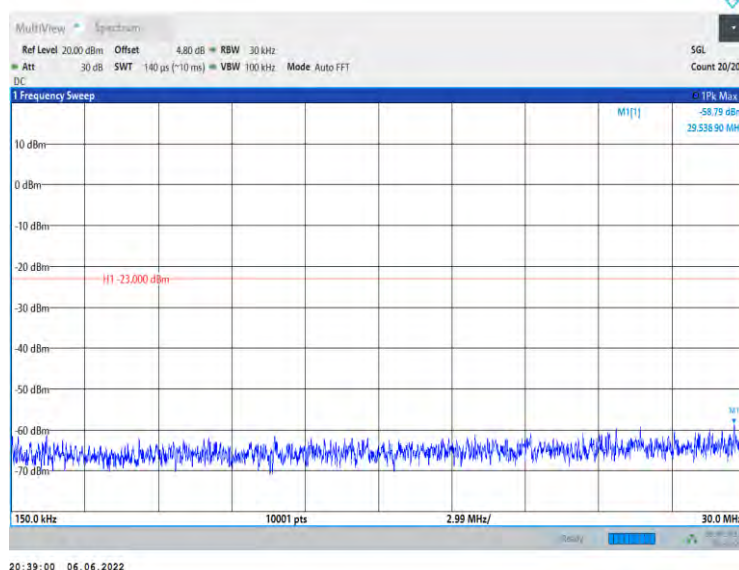
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GSM1900-661-0.009~0.15MHz



GSM1900-661-0.15~30MHz



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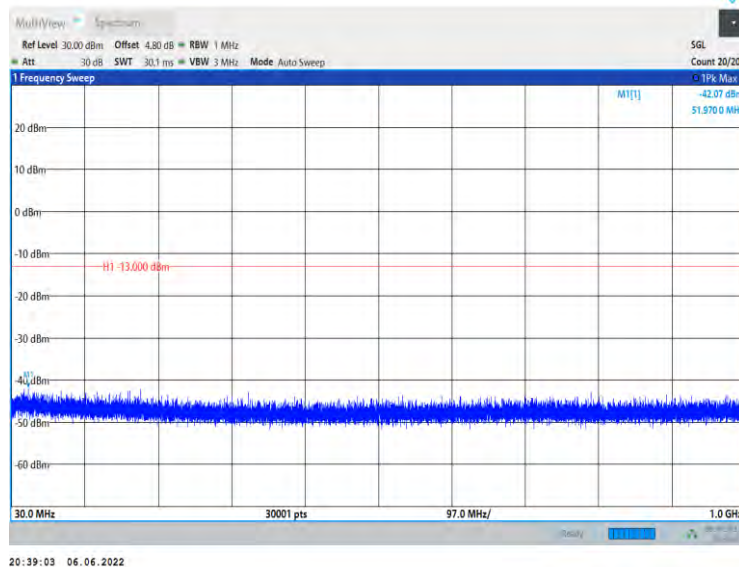
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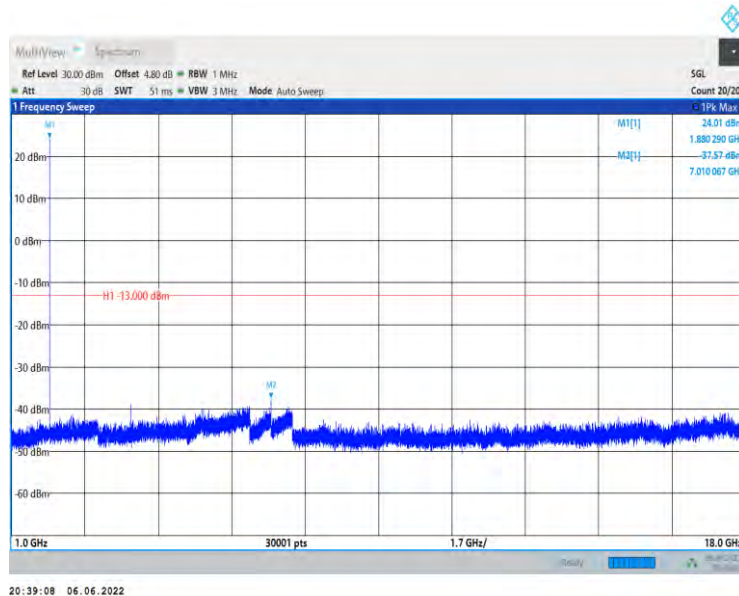
Rev.: 01

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GSM1900-661-30~1000MHz



GSM1900-661-1000~18000MHz



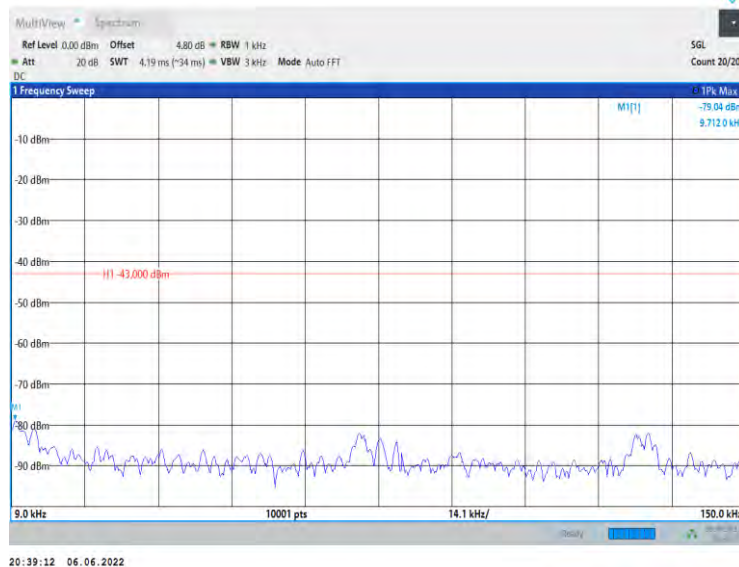
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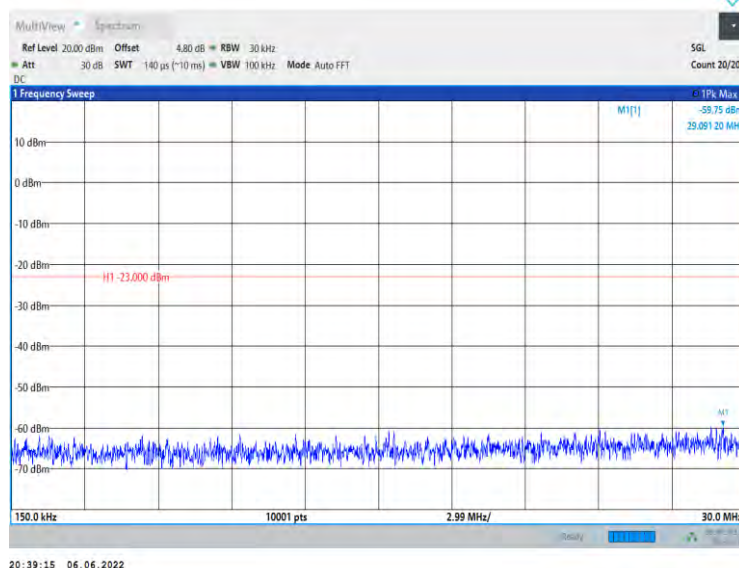
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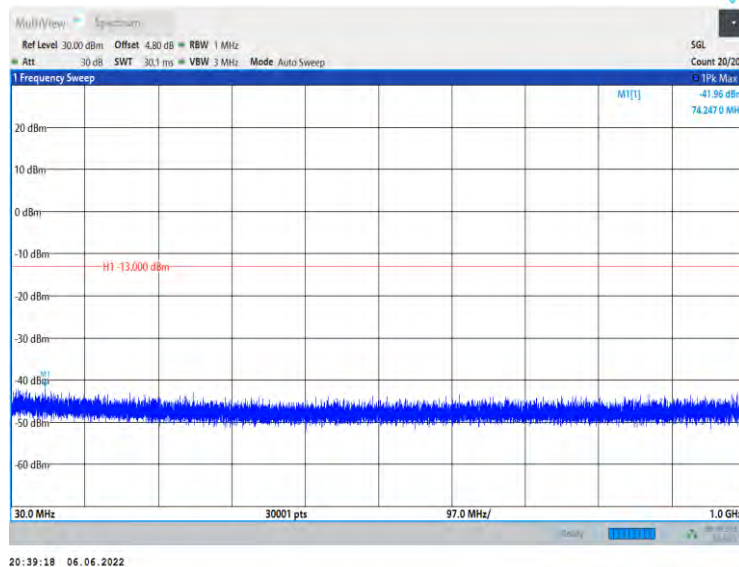
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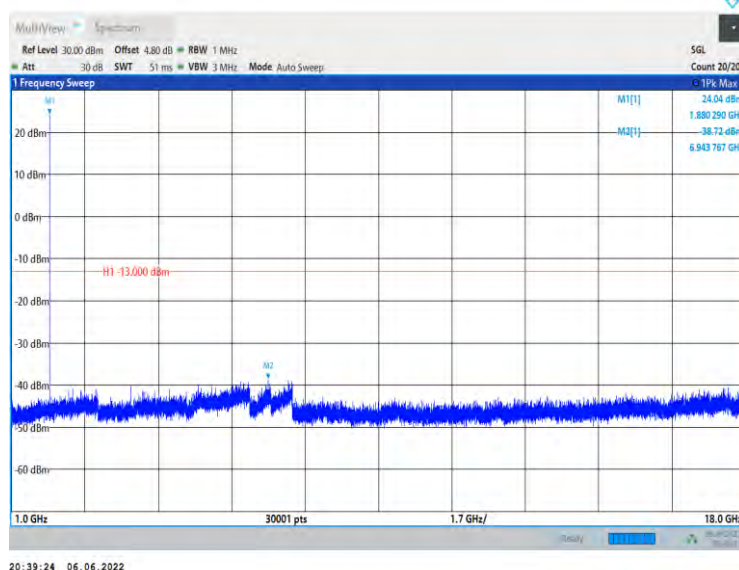
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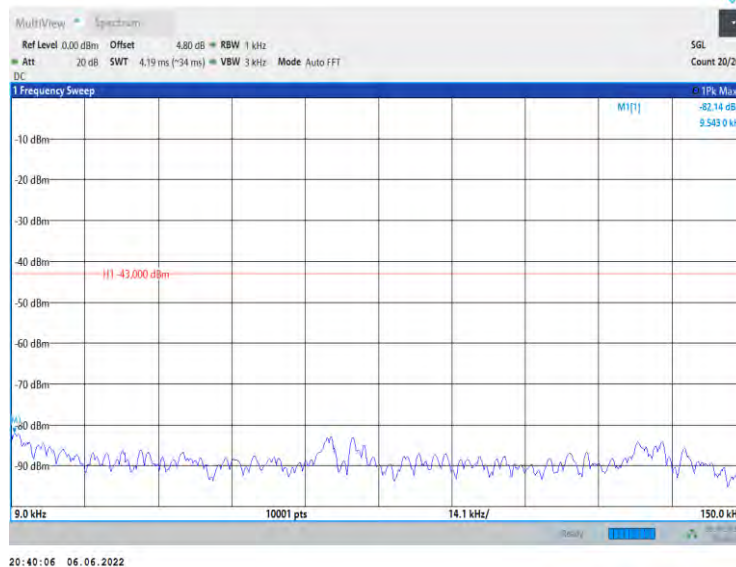
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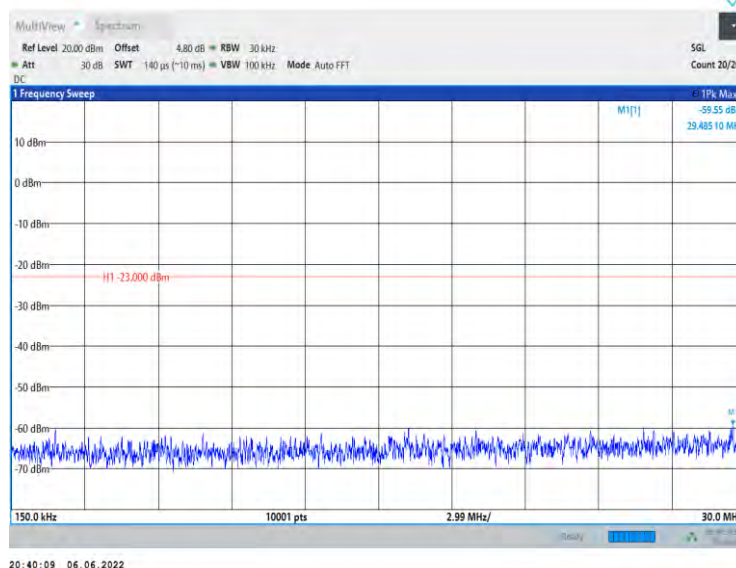
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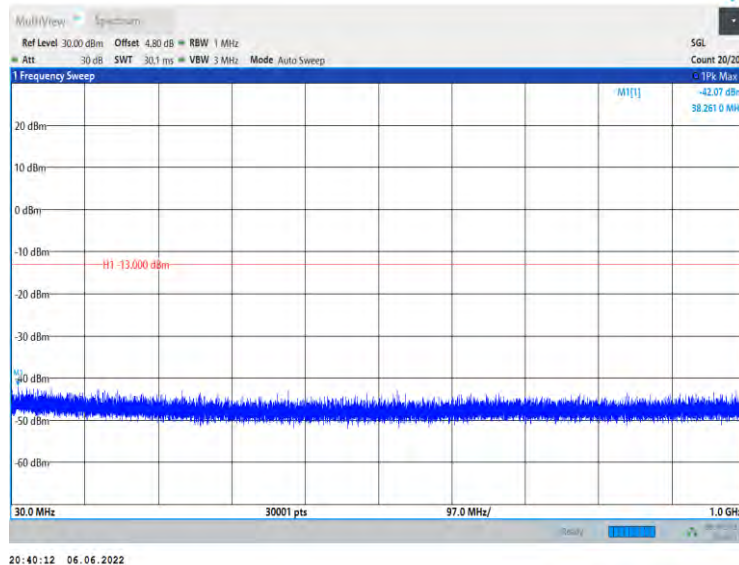


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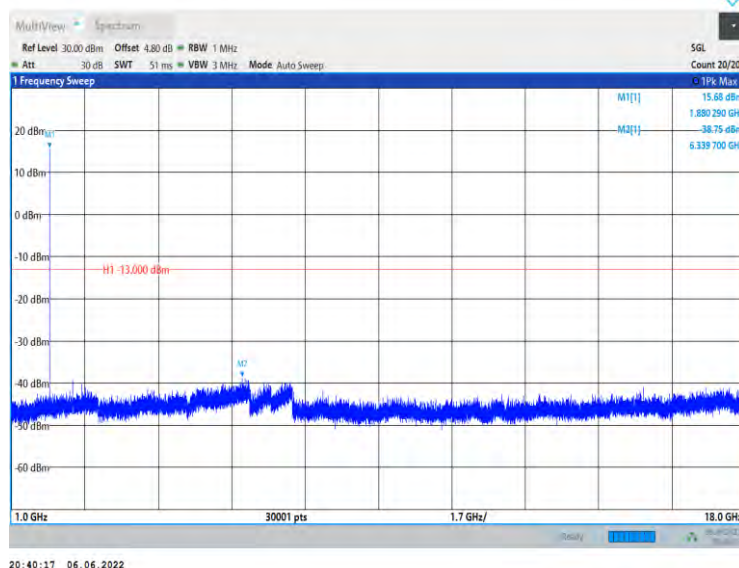
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EGPRS1900-512-30~1000MHz



EGPRS1900-512-1000~18000MHz



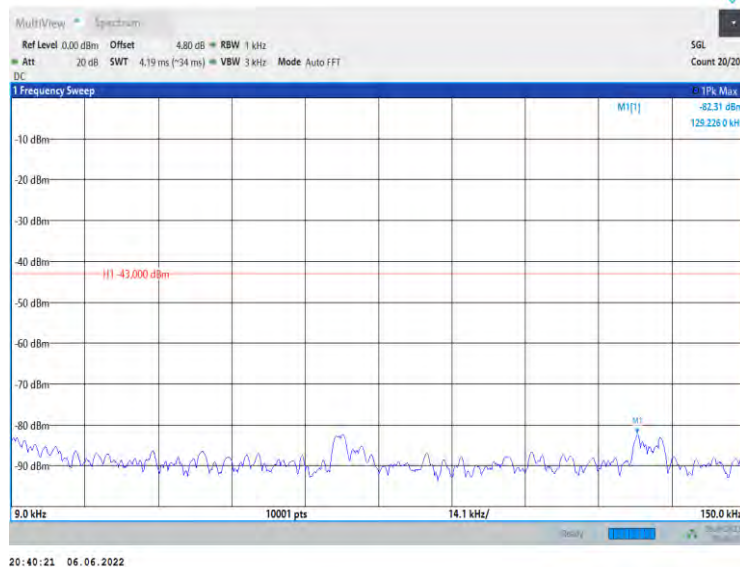
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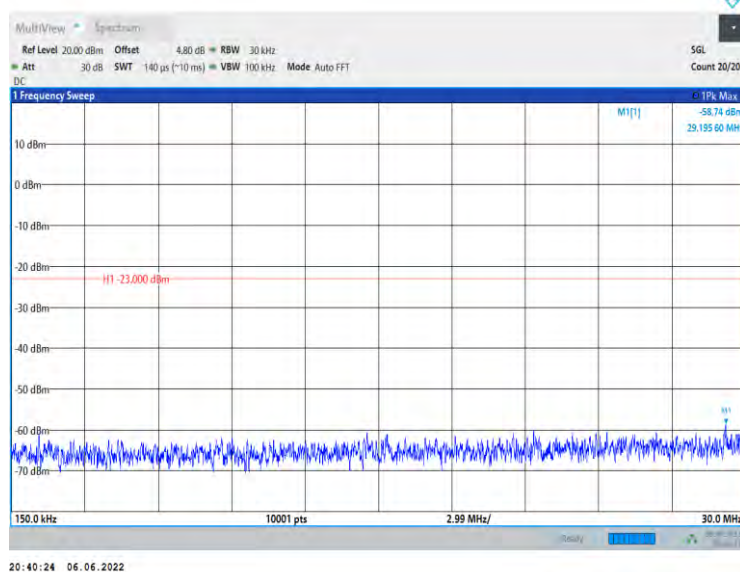
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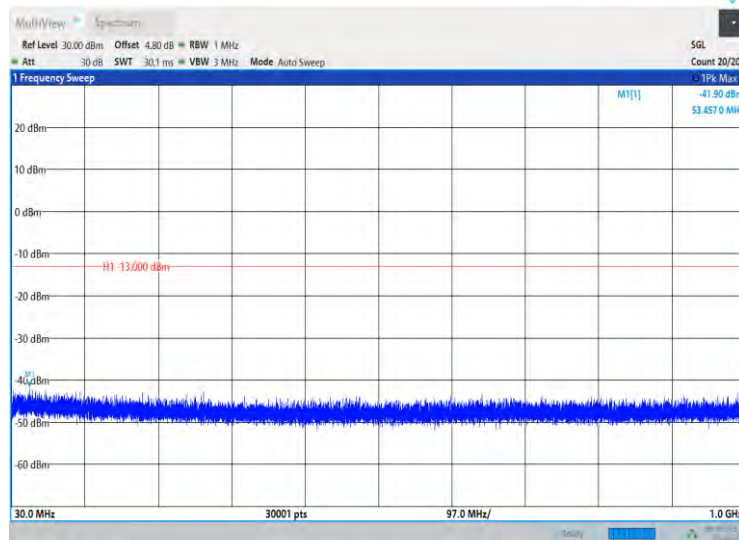
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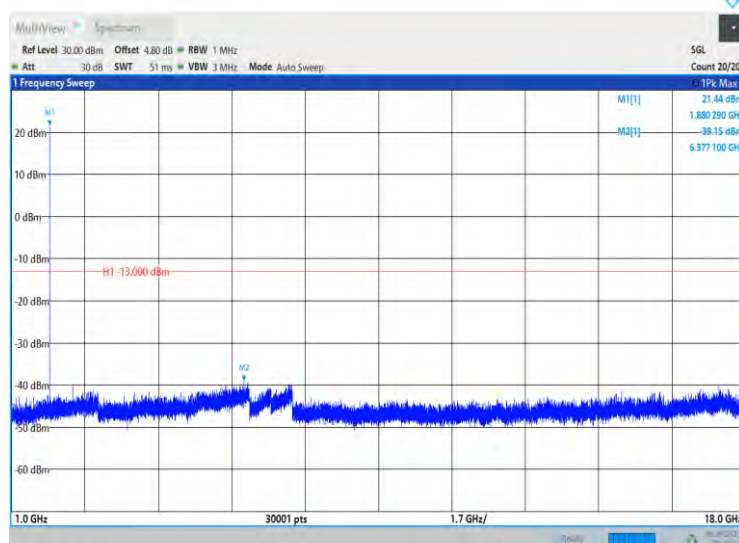
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20:40:27 06.06.2022

EGPRS1900-661-1000~18000MHz



20:40:33 06.06.2022



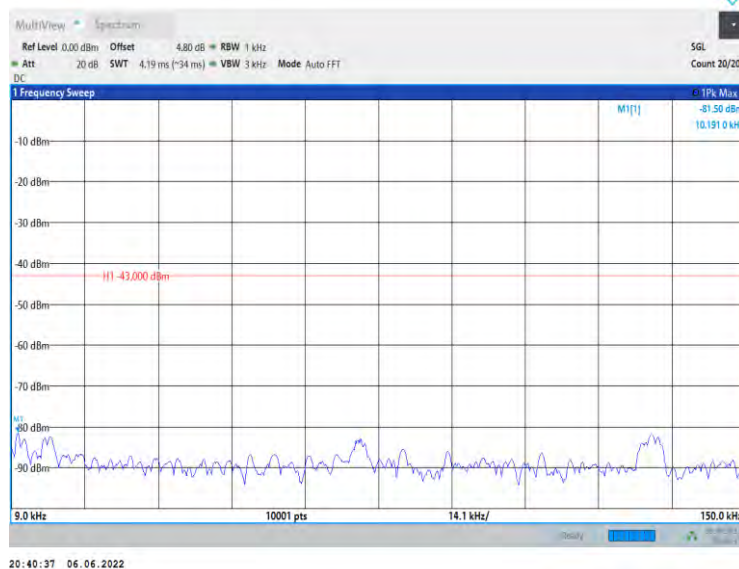
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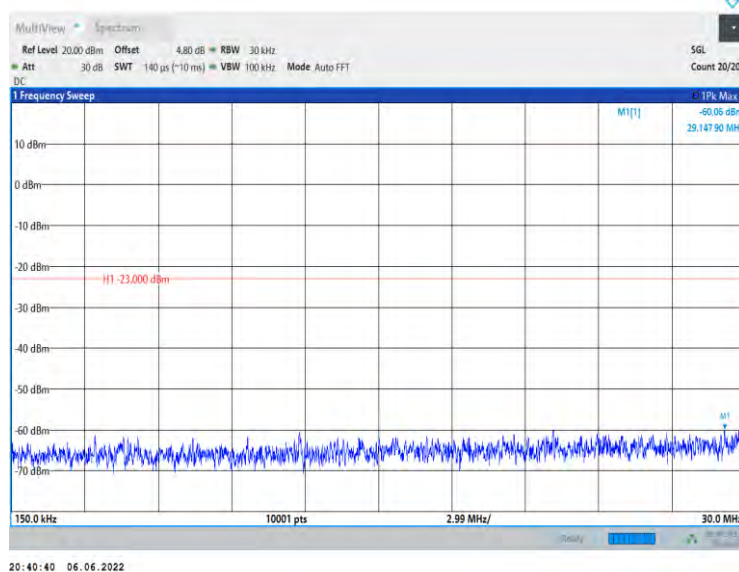
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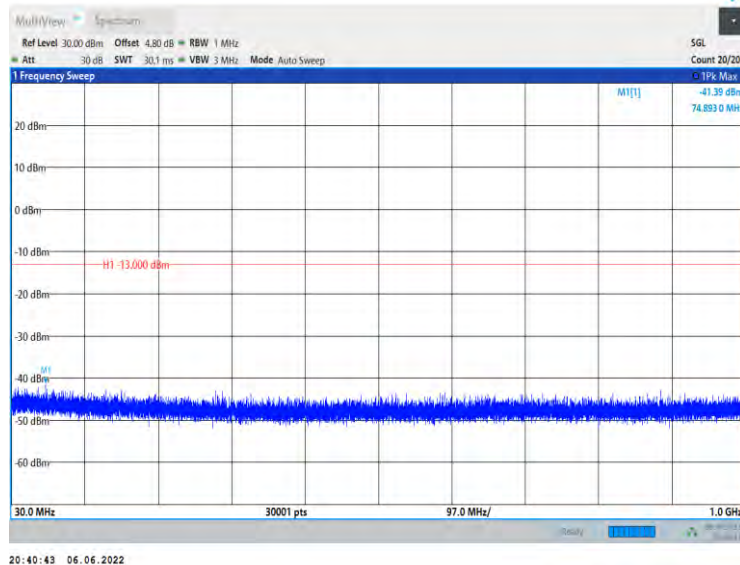
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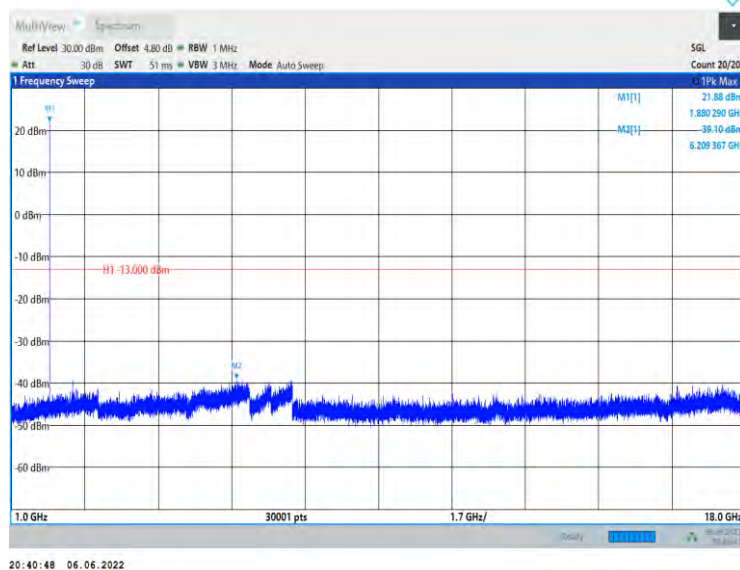
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EGPRS1900-810-1000~18000MHz



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Field Strength of Spurious Radiation

Test Band = GSM 850_

Test Channel = Low Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648	83.79	-48.39	25.58	-34.28	-13.00	21.28	263	103	Horizontal
2	2472.6	87.95	-46.96	27.85	-26.42	-13.00	13.42	244	360	Horizontal
3	3296.8	63.25	-46.11	29.48	-48.64	-13.00	35.64	175	348	Horizontal
4	4121	66.48	-45.34	30.80	-43.33	-13.00	30.33	263	312	Horizontal
5	4945.2	52.03	-45.09	32.47	-55.85	-13.00	42.85	254	3	Horizontal
6	5769.4	50.69	-43.53	33.46	-54.63	-13.00	41.63	188	360	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648	84.50	-48.39	25.58	-33.57	-13.00	20.57	163	71	Vertical
2	2472	92.57	-46.98	27.84	-21.82	-13.00	8.82	254	18	Vertical
3	3296.8	57.56	-46.11	29.48	-54.33	-13.00	41.33	175	24	Vertical
4	4121	61.72	-45.34	30.80	-48.09	-13.00	35.09	263	0	Vertical
5	4945.2	53.15	-45.09	32.47	-54.73	-13.00	41.73	254	318	Vertical
6	5769.4	50.75	-43.53	33.46	-54.57	-13.00	41.57	188	334	Vertical



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Report No.: SEWM2206000064RG01

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Test Band = GSM 850_

Test Channel = Mid Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8	76.48	-48.31	25.56	-41.53	-13.00	28.53	142	111	Horizontal
2	2509.2	68.48	-46.79	27.93	-45.64	-13.00	32.64	286	220	Horizontal
3	3345.6	55.63	-46.19	29.46	-56.36	-13.00	43.36	263	251	Horizontal
4	4182	53.34	-45.16	30.89	-56.19	-13.00	43.19	254	18	Horizontal
5	5018.4	50.80	-44.93	32.60	-56.79	-13.00	43.79	178	360	Horizontal
6	5854.8	52.18	-43.34	33.74	-52.68	-13.00	39.68	265	235	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8	75.53	-48.31	25.56	-42.48	-13.00	29.48	163	142	Vertical
2	2509.2	69.19	-46.79	27.93	-44.93	-13.00	31.93	285	219	Vertical
3	3345.6	57.89	-46.19	29.46	-54.10	-13.00	41.10	265	336	Vertical
4	4182	50.67	-45.16	30.89	-58.86	-13.00	45.86	241	7	Vertical
5	5018.4	51.10	-44.93	32.60	-56.49	-13.00	43.49	177	0	Vertical
6	5854.8	51.10	-43.34	33.74	-53.76	-13.00	40.76	142	304	Vertical



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中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

t (86-512) 62982980 www.sgs.com.cn
t (86-512) 62982980 sgs.china@sgs.com

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Test Band = GSM 850_

Test Channel = High Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6	81.51	-48.25	25.55	-36.44	-13.00	23.44	163	359	Horizontal
2	2546	66.55	-46.97	28.06	-47.62	-13.00	34.62	285	212	Horizontal
3	3395.2	57.21	-46.27	29.44	-54.88	-13.00	41.88	241	134	Horizontal
4	4244	52.45	-45.11	30.99	-56.93	-13.00	43.93	176	64	Horizontal
5	5092.8	52.16	-44.62	32.60	-55.12	-13.00	42.12	263	343	Horizontal
6	5941.6	52.04	-43.35	34.01	-52.56	-13.00	39.56	255	56	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6	75.45	-48.25	25.55	-42.50	-13.00	29.50	254	56	Vertical
2	2546	71.98	-46.97	28.06	-42.19	-13.00	29.19	174	327	Vertical
3	3395.2	55.55	-46.27	29.44	-56.54	-13.00	43.54	185	304	Vertical
4	4244	52.27	-45.11	30.99	-57.11	-13.00	44.11	263	280	Vertical
5	5092.8	51.43	-44.62	32.60	-55.85	-13.00	42.85	255	0	Vertical
6	5941.6	51.51	-43.35	34.01	-53.09	-13.00	40.09	144	220	Vertical



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t (86-512) 62982980 www.sgs.com.cn
t (86-512) 62982980 sgs.china@sgs.com

Test Band = GSM 1900_

Test Channel = Low Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3700.4	56.23	-45.70	29.88	-54.85	-13.00	41.85	186	3	Horizontal
2	5550.6	61.21	-43.87	32.76	-45.16	-13.00	32.16	263	290	Horizontal
3	7400.8	52.63	-41.98	36.44	-48.17	-13.00	35.17	254	63	Horizontal
4	9251	54.96	-38.39	38.57	-40.12	-13.00	27.12	145	360	Horizontal
5	11101.2	42.58	-35.37	39.50	-48.56	-13.00	35.56	189	3	Horizontal
6	12951.4	42.64	-34.89	39.55	-47.96	-13.00	34.96	263	229	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3700.4	57.28	-45.70	29.88	-53.80	-13.00	40.80	151	313	Vertical
2	5550.6	62.62	-43.87	32.76	-43.75	-13.00	30.75	174	62	Vertical
3	7400.8	53.02	-41.98	36.44	-47.78	-13.00	34.78	185	253	Vertical
4	9251	50.56	-38.39	38.57	-44.52	-13.00	31.52	263	313	Vertical
5	11101.2	42.68	-35.37	39.50	-48.46	-13.00	35.46	294	3	Vertical
6	12951.4	43.83	-34.89	39.55	-46.77	-13.00	33.77	188	325	Vertical



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t (86-512) 62982980 www.sgs.com.cn

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Test Band = GSM 1900_
Test Channel = Mid Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760	60.44	-45.54	30.03	-50.33	-13.00	37.33	163	360	Horizontal
2	5640	68.21	-43.81	33.05	-37.81	-13.00	24.81	285	3	Horizontal
3	7520	54.55	-41.53	36.54	-45.70	-13.00	32.70	241	15	Horizontal
4	9400	52.30	-38.16	38.56	-42.56	-13.00	29.56	176	3	Horizontal
5	11280	42.79	-35.28	39.32	-48.43	-13.00	35.43	326	157	Horizontal
6	13160	42.87	-34.68	39.70	-47.37	-13.00	34.37	241	193	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760	59.14	-45.54	30.03	-51.63	-13.00	38.63	185	155	Vertical
2	5640	68.64	-43.81	33.05	-37.38	-13.00	24.38	263	96	Vertical
3	7520	54.46	-41.53	36.54	-45.79	-13.00	32.79	241	276	Vertical
4	9400	45.63	-38.16	38.56	-49.23	-13.00	36.23	179	359	Vertical
5	11280	42.43	-35.28	39.32	-48.79	-13.00	35.79	263	360	Vertical
6	13160	43.61	-34.68	39.70	-46.63	-13.00	33.63	254	322	Vertical



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t (86-512) 62982980 sgs.china@sgs.com

Test Band = GSM 1900_
Test Channel = High Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3819.6	65.66	-45.44	30.17	-44.87	-13.00	31.87	321	3	Horizontal
2	5729.4	66.51	-43.65	33.34	-39.07	-13.00	26.07	254	74	Horizontal
3	7639.2	56.96	-41.29	36.78	-42.81	-13.00	29.81	175	345	Horizontal
4	9549	47.36	-38.13	38.55	-47.48	-13.00	34.48	263	334	Horizontal
5	11458.8	41.65	-35.27	39.14	-49.73	-13.00	36.73	294	360	Horizontal
6	13368.6	43.06	-35.13	39.82	-47.51	-13.00	34.51	188	26	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3819.6	62.47	-45.44	30.17	-48.06	-13.00	35.06	176	311	Vertical
2	5729.4	66.34	-43.65	33.34	-39.24	-13.00	26.24	382	323	Vertical
3	7639.2	51.29	-41.29	36.78	-48.48	-13.00	35.48	241	354	Vertical
4	9549	45.60	-38.13	38.55	-49.24	-13.00	36.24	186	240	Vertical
5	11458.8	42.00	-35.27	39.14	-49.38	-13.00	36.38	265	277	Vertical
6	13368.6	43.85	-35.13	39.82	-46.72	-13.00	33.72	241	358	Vertical

Remark:

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

Level = Reading Level(dBμV) + AF(dB/m) + Factor(dB):

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

AF = Antenna Factor(dB/m)

Margin = Limit(dBm) – Level(dBm)

dBm = dBμV – 95.26



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t (86-512) 62982980 www.sgs.com.cn

t (86-512) 62982980 sgs.china@sgs.com

Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	VL	NT	2.42	0.002893	±2.5	PASS
GSM850	190	VN	NT	5.69	0.006801	±2.5	PASS
GSM850	190	VH	NT	2.09	0.002498	±2.5	PASS
EGPRS850	190	VL	NT	-3.80	-0.004542	±2.5	PASS
EGPRS850	190	VN	NT	-6.32	-0.007554	±2.5	PASS
EGPRS850	190	VH	NT	-1.56	-0.001865	±2.5	PASS

Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	VL	NT	15.26	0.008117	PASS
GSM1900	661	VN	NT	12.98	0.006904	PASS
GSM1900	661	VH	NT	18.70	0.009947	PASS
EGPRS1900	661	VL	NT	10.27	0.005463	PASS
EGPRS1900	661	VN	NT	11.74	0.006245	PASS
EGPRS1900	661	VH	NT	9.53	0.005069	PASS



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Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	190	NV	-30	0.41	0.000490	±2.5	PASS
GSM850	190	NV	-20	1.80	0.002152	±2.5	PASS
GSM850	190	NV	-10	3.72	0.004447	±2.5	PASS
GSM850	190	NV	0	0.71	0.000849	±2.5	PASS
GSM850	190	NV	10	4.36	0.005212	±2.5	PASS
GSM850	190	NV	20	6.36	0.007602	±2.5	PASS
GSM850	190	NV	30	-0.27	-0.000323	±2.5	PASS
GSM850	190	NV	40	5.89	0.007040	±2.5	PASS
GSM850	190	NV	50	4.37	0.005224	±2.5	PASS
EGPRS850	190	NV	-30	-0.75	-0.000896	±2.5	PASS
EGPRS850	190	NV	-20	-0.13	-0.000155	±2.5	PASS
EGPRS850	190	NV	-10	-1.46	-0.001745	±2.5	PASS
EGPRS850	190	NV	0	-1.78	-0.002128	±2.5	PASS
EGPRS850	190	NV	10	-4.09	-0.004889	±2.5	PASS
EGPRS850	190	NV	20	0.99	0.001183	±2.5	PASS
EGPRS850	190	NV	30	0.02	0.000024	±2.5	PASS
EGPRS850	190	NV	40	-2.28	-0.002725	±2.5	PASS
EGPRS850	190	NV	50	-1.47	-0.001757	±2.5	PASS



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t (86-512) 62992980 www.sgsgroup.com.cn
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Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
GSM1900	661	NV	-30	17.39	0.009250	PASS
GSM1900	661	NV	-20	12.07	0.006420	PASS
GSM1900	661	NV	-10	13.13	0.006984	PASS
GSM1900	661	NV	0	16.35	0.008697	PASS
GSM1900	661	NV	10	17.65	0.009388	PASS
GSM1900	661	NV	20	19.37	0.010303	PASS
GSM1900	661	NV	30	14.92	0.007936	PASS
GSM1900	661	NV	40	16.76	0.008915	PASS
GSM1900	661	NV	50	14.11	0.007505	PASS
EGPRS1900	661	NV	-30	6.98	0.003713	PASS
EGPRS1900	661	NV	-20	10.44	0.005553	PASS
EGPRS1900	661	NV	-10	9.57	0.005090	PASS
EGPRS1900	661	NV	0	3.60	0.001915	PASS
EGPRS1900	661	NV	10	6.08	0.003234	PASS
EGPRS1900	661	NV	20	6.61	0.003516	PASS
EGPRS1900	661	NV	30	6.04	0.003213	PASS
EGPRS1900	661	NV	40	7.29	0.003878	PASS
EGPRS1900	661	NV	50	7.65	0.004069	PASS

---End of Attachment---



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South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国 (江苏) 自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com
t (86-512) 62992980 sgs.china@sgs.com

Member of the SGS Group (SGS SA)