

Report No.: SEWM2310000403RG01

Rev.: 01

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Appendix B.1

GSM850&1900



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Slot	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	27.38	27.36	38.45	PASS
EGPRS850	128	2	27.23	27.21	38.45	PASS
EGPRS850	128	3	25.17	25.15	38.45	PASS
EGPRS850	128	4	23.47	23.45	38.45	PASS
EGPRS850	190	1	27.98	27.96	38.45	PASS
EGPRS850	190	2	27.77	27.75	38.45	PASS
EGPRS850	190	3	25.24	25.22	38.45	PASS
EGPRS850	190	4	23.59	23.57	38.45	PASS
EGPRS850	251	1	28.03	28.01	38.45	PASS
EGPRS850	251	2	27.85	27.83	38.45	PASS
EGPRS850	251	3	26.05	26.03	38.45	PASS
EGPRS850	251	4	23.74	23.72	38.45	PASS
Band	Channel	Slot	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	26.24	27.83	33.00	PASS
EGPRS1900	512	2	26.16	27.75	33.00	PASS
EGPRS1900	512	3	24.39	25.98	33.00	PASS
EGPRS1900	512	4	22.34	23.93	33.00	PASS
EGPRS1900	661	1	25.99	27.58	33.00	PASS
EGPRS1900	661	2	25.93	27.52	33.00	PASS
EGPRS1900	661	3	24.01	25.6	33.00	PASS
EGPRS1900	661	4	22.05	23.64	33.00	PASS
EGPRS1900	810	1	26.71	28.3	33.00	PASS
EGPRS1900	810	2	26.61	28.2	33.00	PASS
EGPRS1900	810	3	24.47	26.06	33.00	PASS
EGPRS1900	810	4	22.18	23.77	33.00	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
EGPRS850	128	12.44	13	PASS
EGPRS850	190	12.32	13	PASS
EGPRS850	251	12.4	13	PASS
EGPRS1900	512	12.46	13	PASS
EGPRS1900	661	12.54	13	PASS
EGPRS1900	810	12.42	13	PASS



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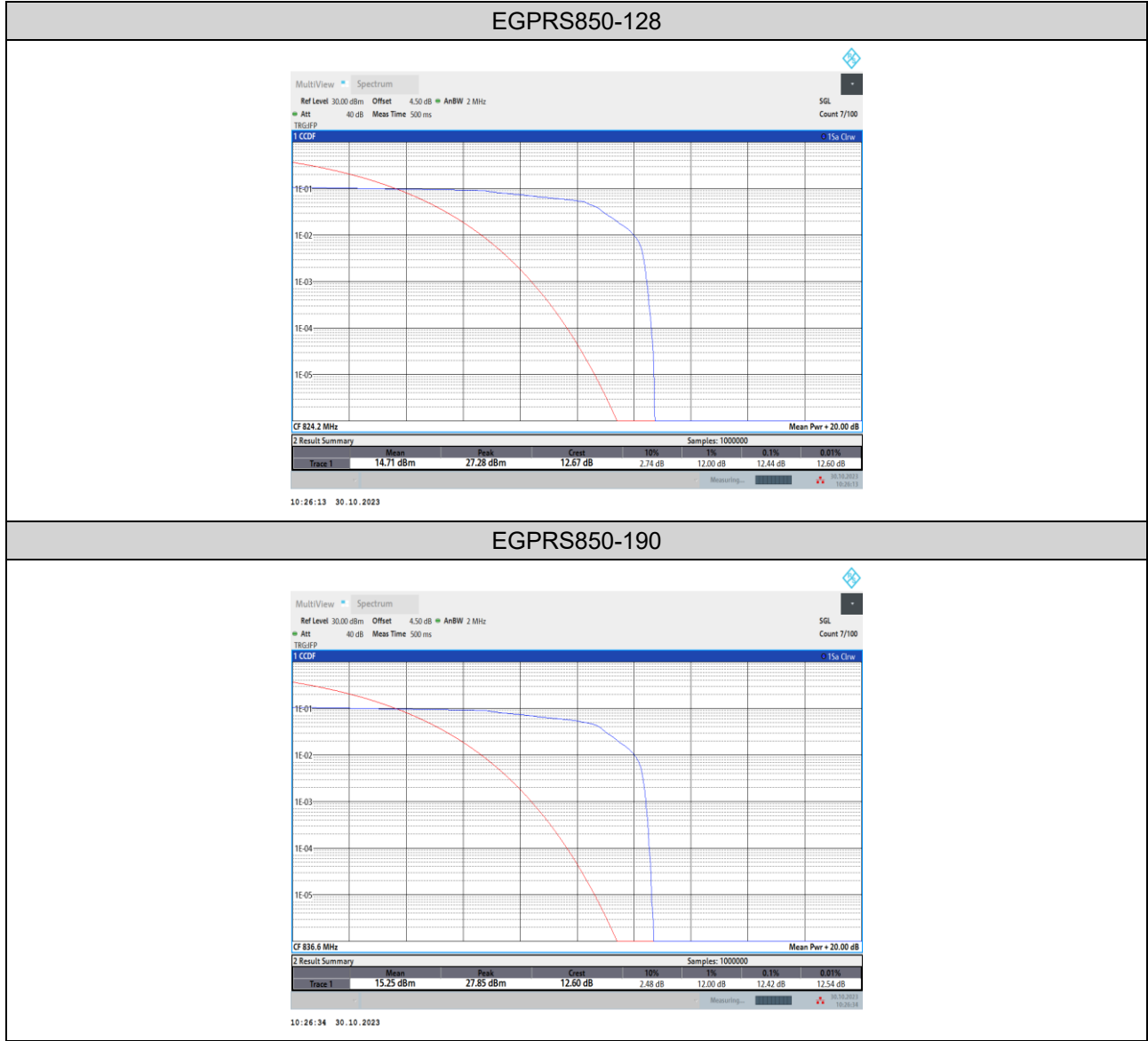
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Test Graphs

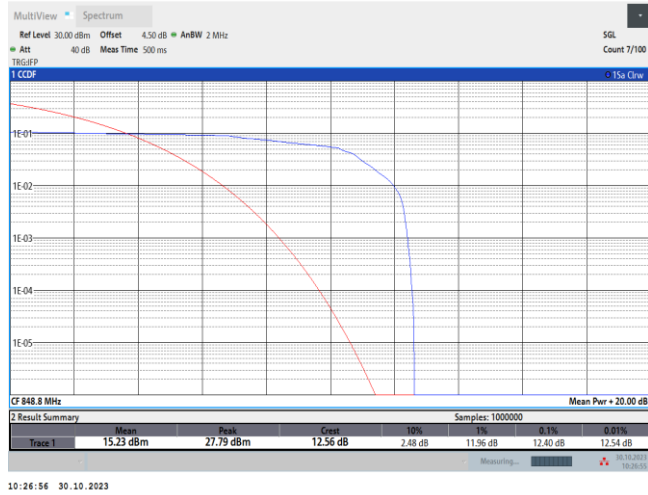


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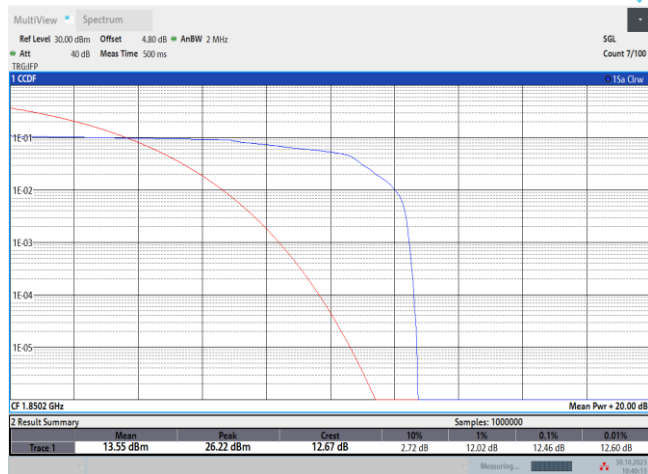
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EGPRS850-251



10:26:56 30.10.2023

EGPRS1900-512



10:40:13 30.10.2023

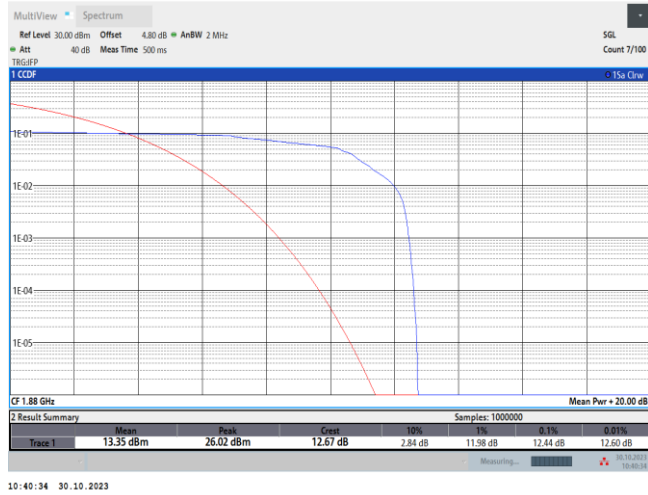


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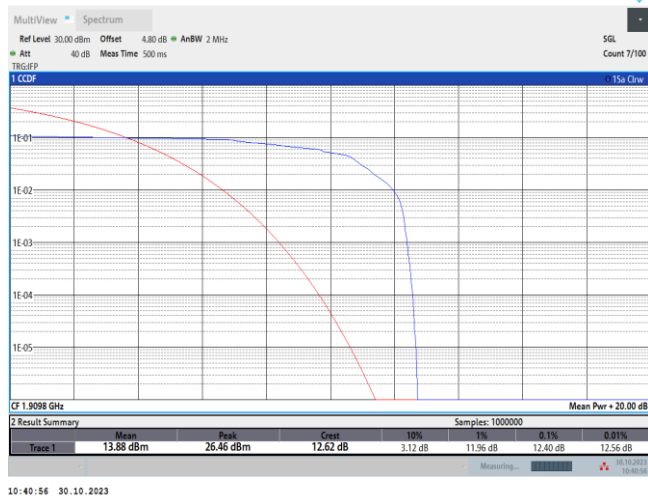
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EGPRS1900-661



EGPRS1900-810



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
EGPRS850	128	0.244	0.31	---	PASS
EGPRS850	190	0.25	0.31	---	PASS
EGPRS850	251	0.249	0.32	---	PASS
EGPRS1900	512	0.248	0.32	---	PASS
EGPRS1900	661	0.247	0.32	---	PASS
EGPRS1900	810	0.249	0.32	---	PASS



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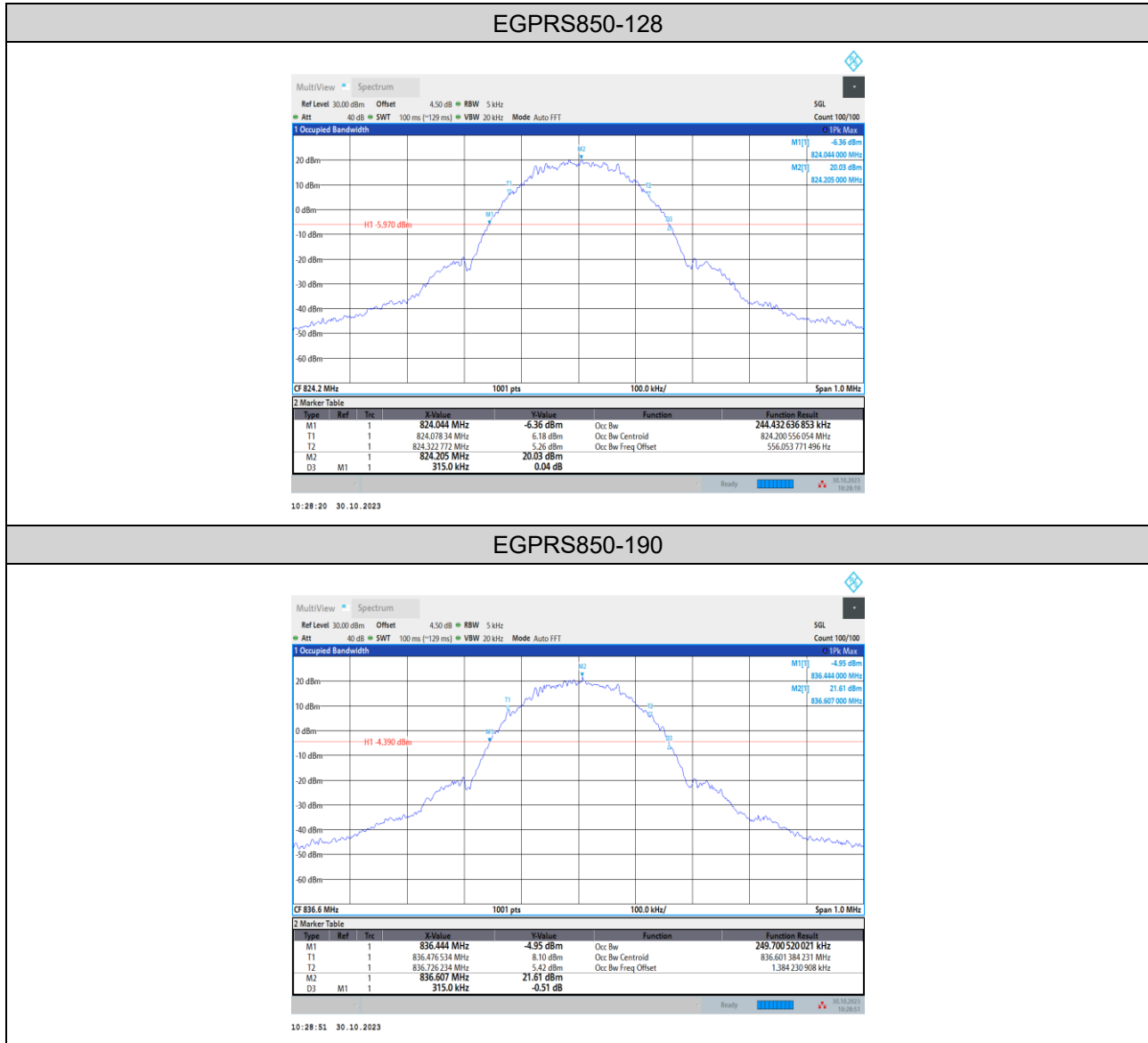
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Test Graphs



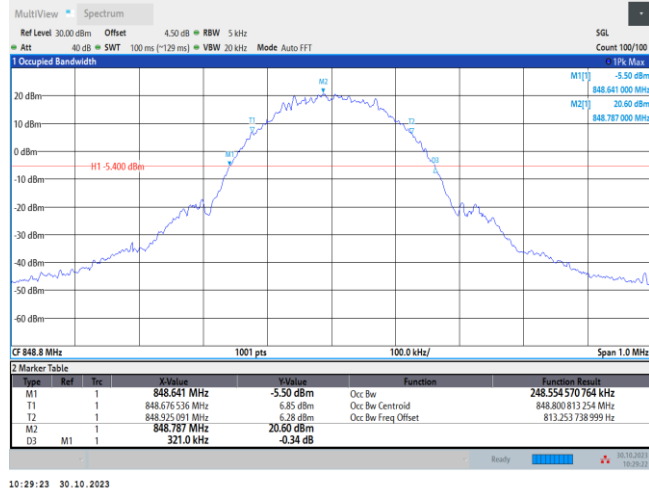
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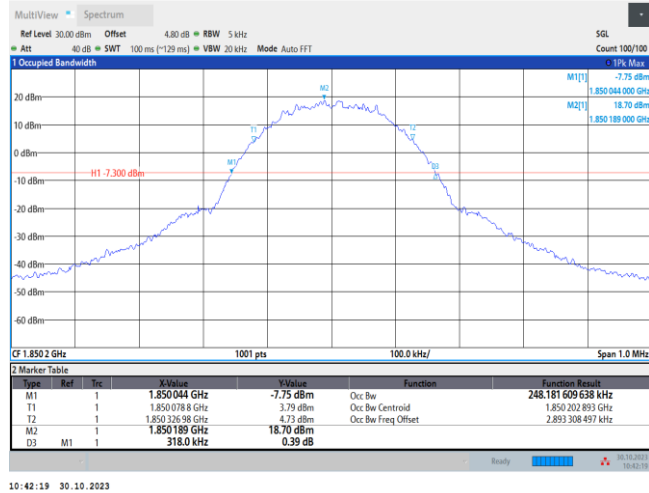
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EGPRS850-251



EGPRS1900-512



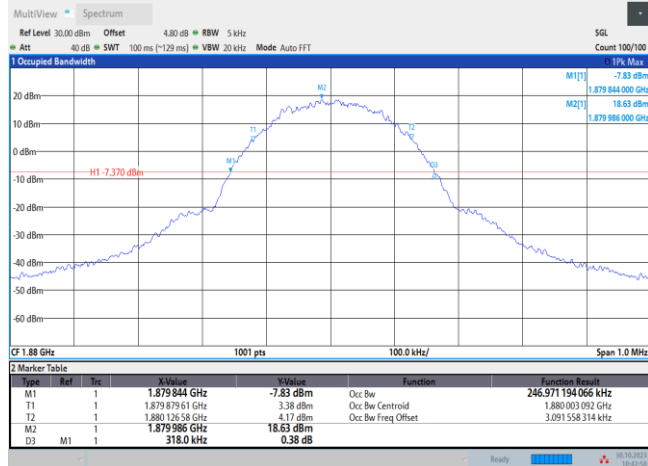
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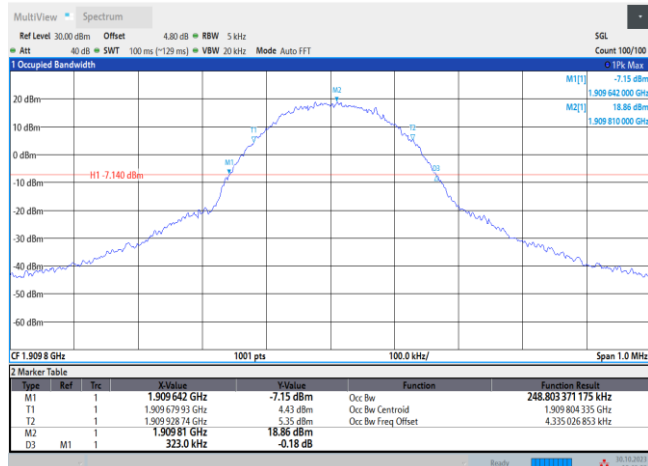
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EGPRS1900-661



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EGPRS1900-810



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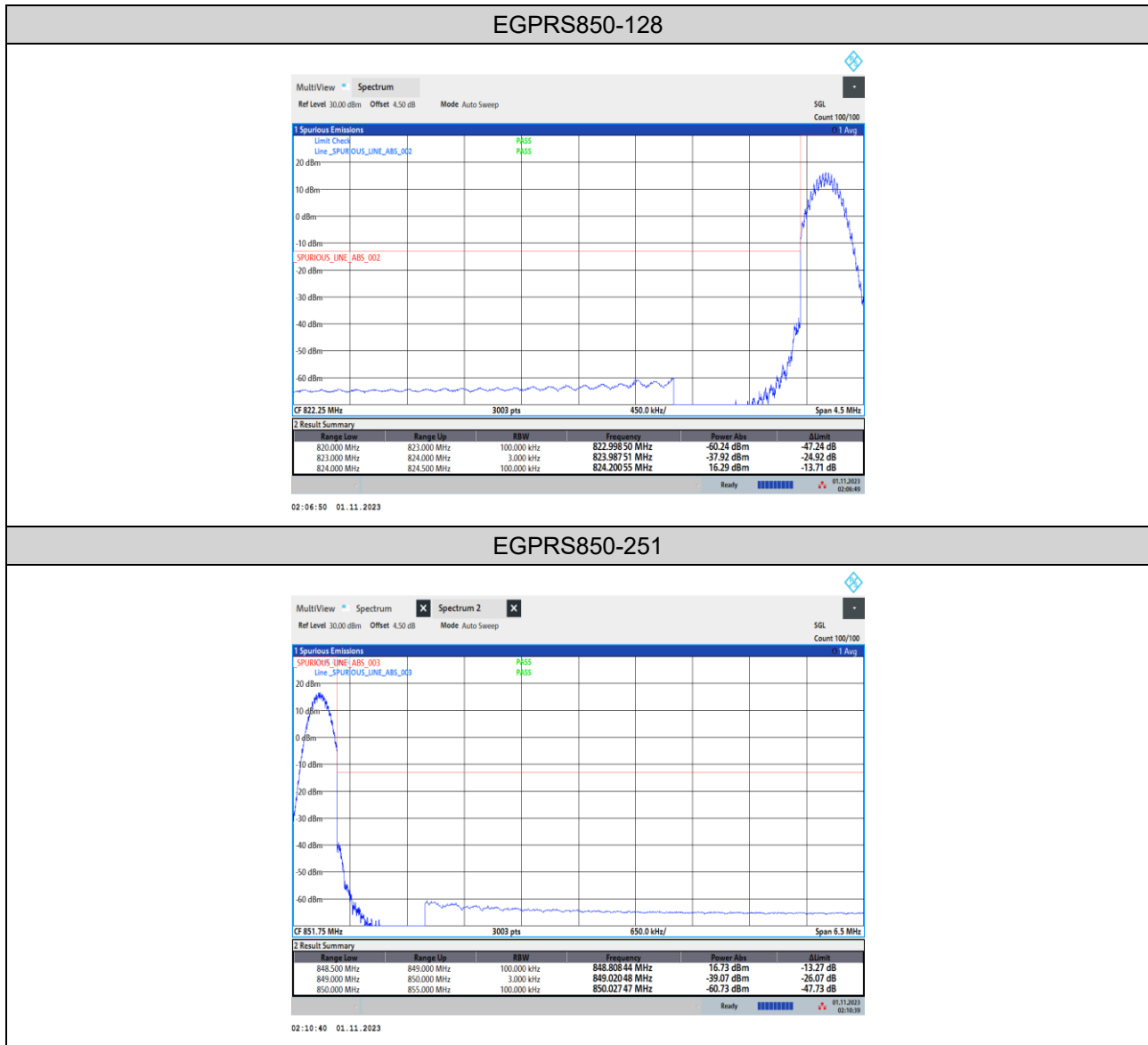


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Band Edge

Test Graphs



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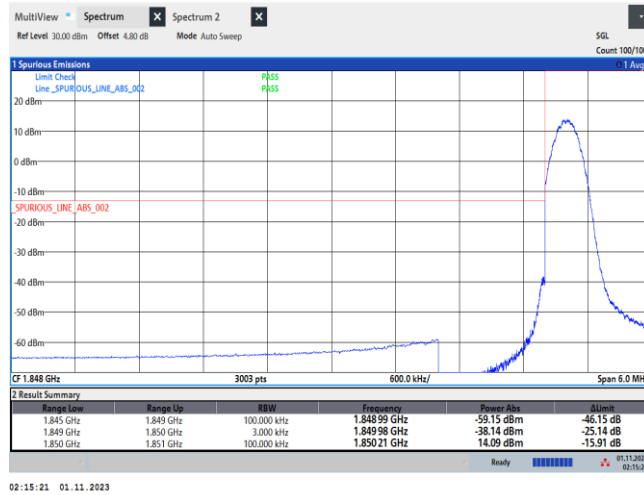
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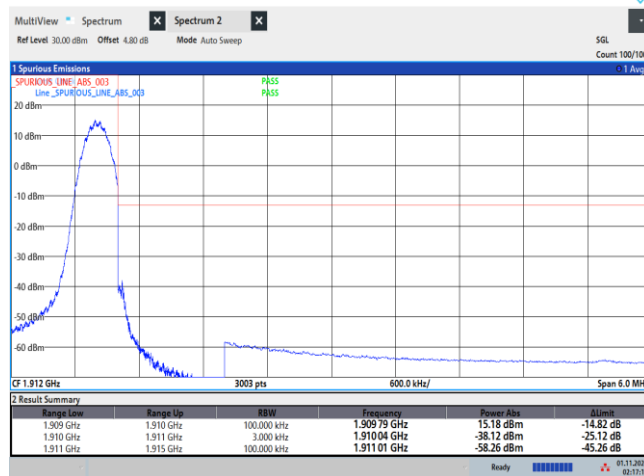
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EGSM1900-512



02:15:21 01.11.2023

EGSM1900-810



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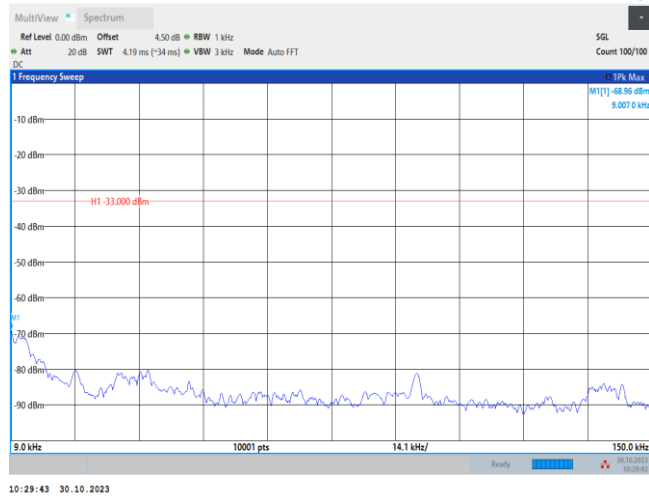
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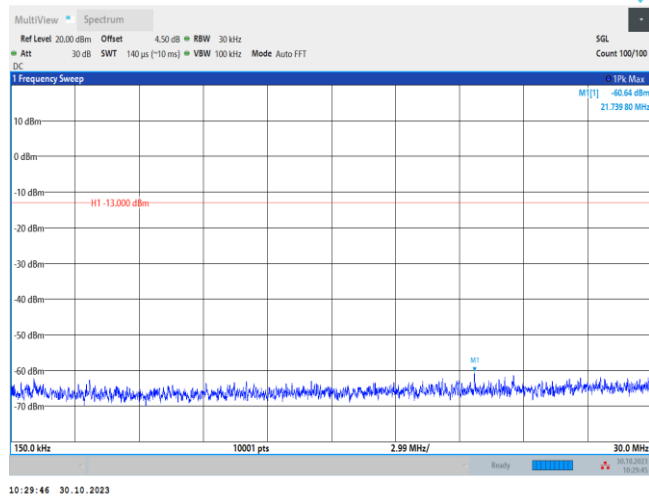
Conducted Spurious Emission

Test Graphs

EGPRS850-128-0.009~0.15MHz



EGPRS850-128-0.15~30MHz

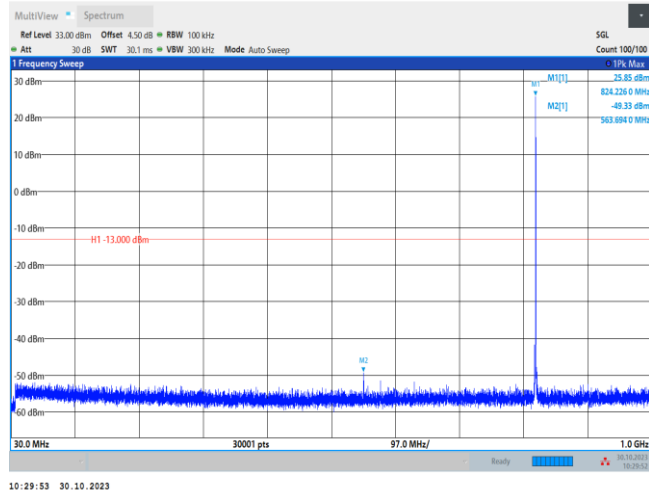


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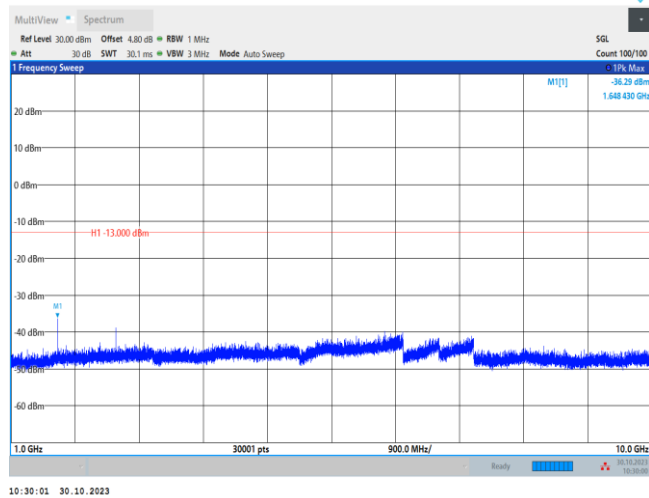
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EGPRS850-128-30~1000MHz



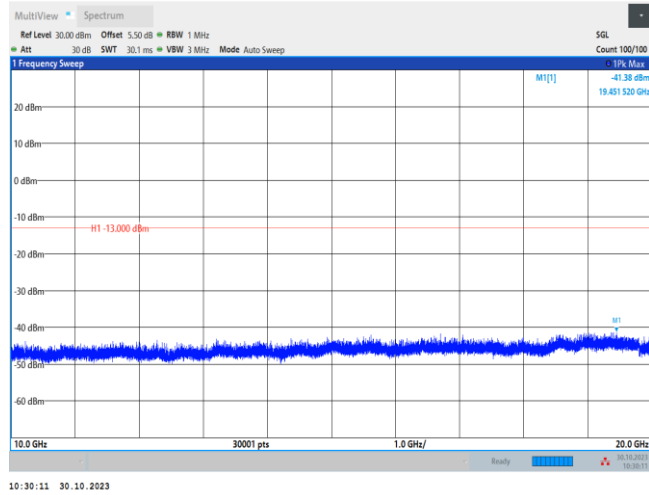
EGPRS850-128-1000~10000MHz



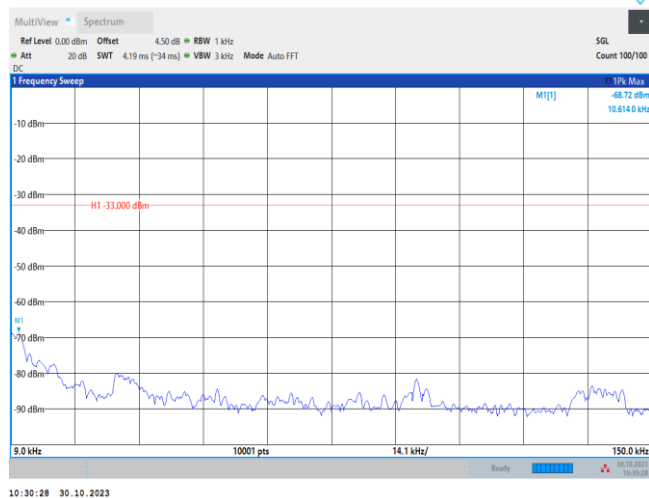
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EGPRS850-128-10000~20000MHz



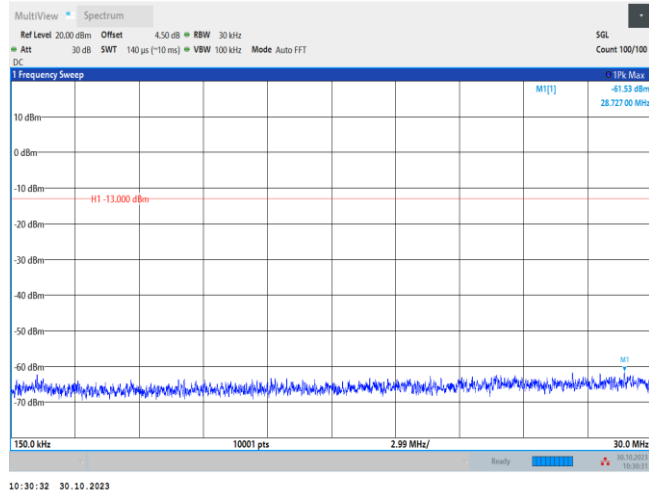
EGPRS850-190-0.009~0.15MHz



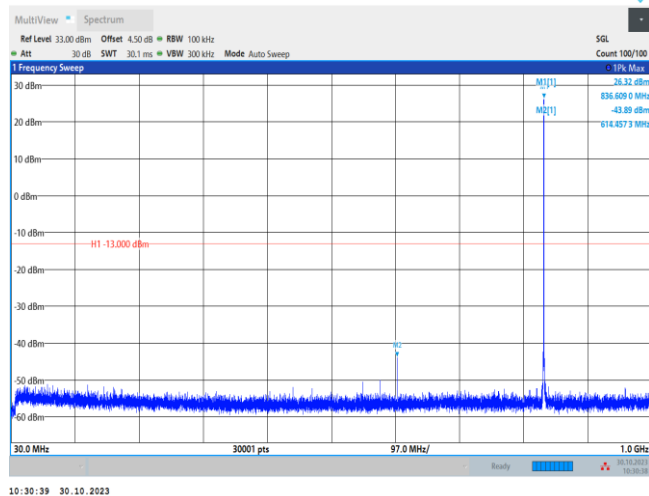
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EGPRS850-190-0.15~30MHz



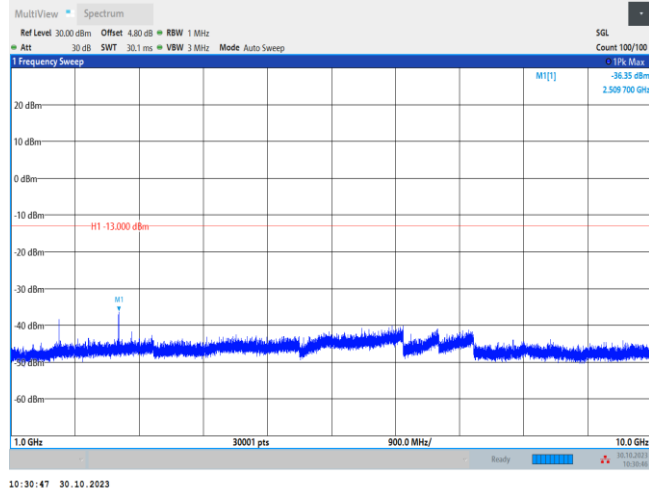
EGPRS850-190-30~1000MHz



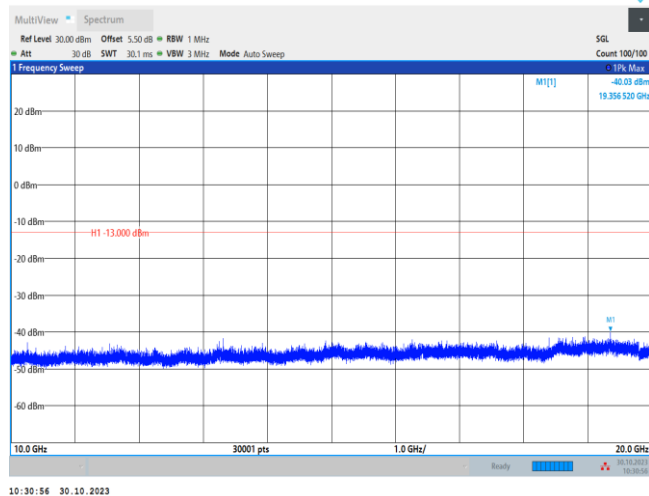
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EGPRS850-190-1000~10000MHz



EGPRS850-190-10000~20000MHz

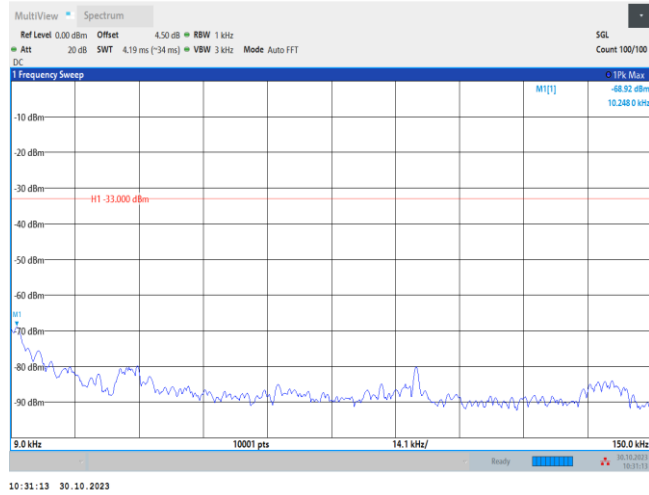


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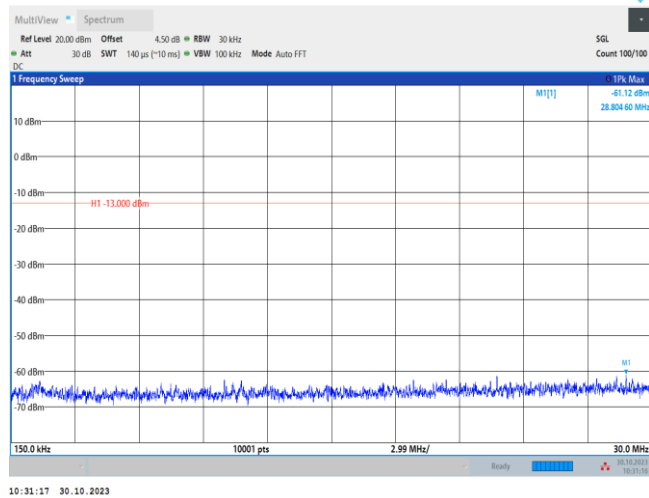
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EGPRS850-251-0.009~0.15MHz



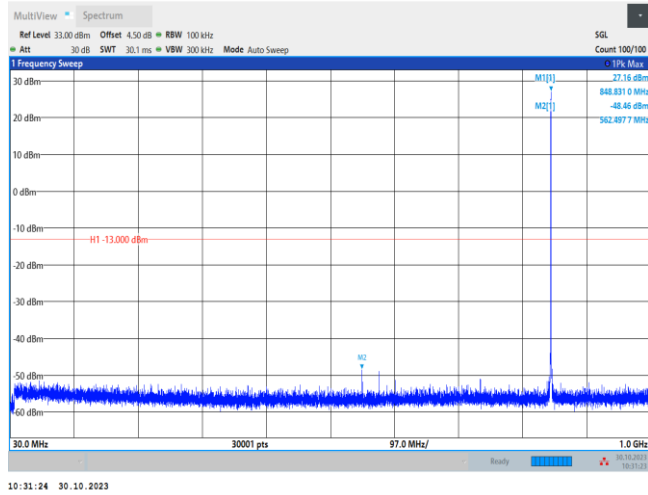
EGPRS850-251-0.15~30MHz



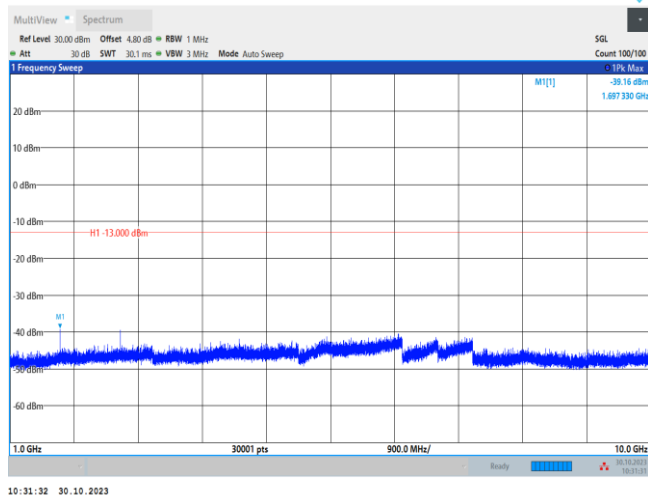
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EGPRS850-251-30~1000MHz



EGPRS850-251-1000~10000MHz



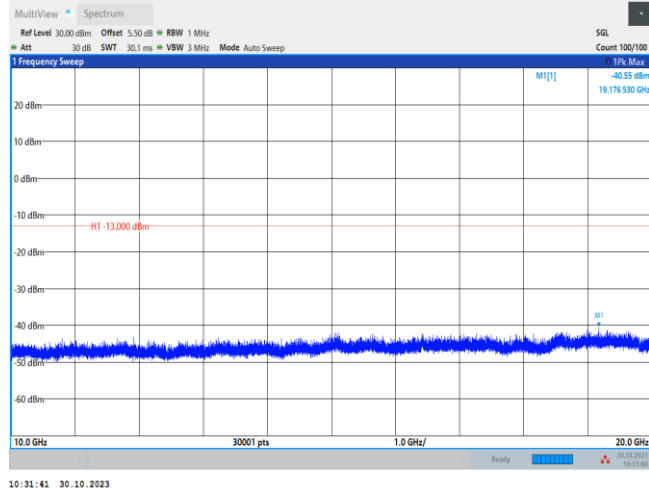
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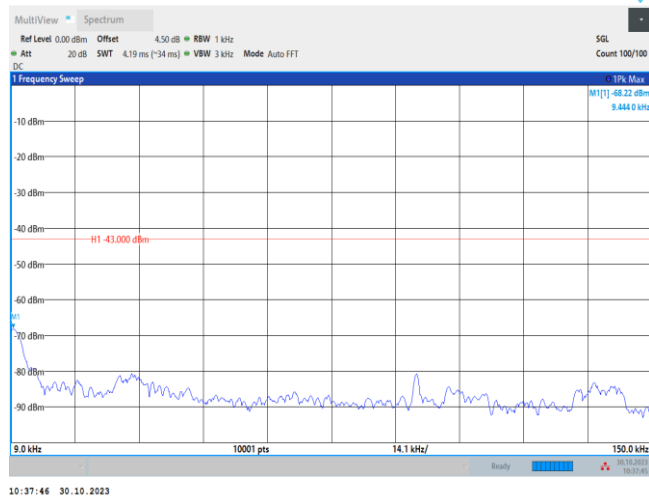
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EGPRS850-251-10000~20000MHz



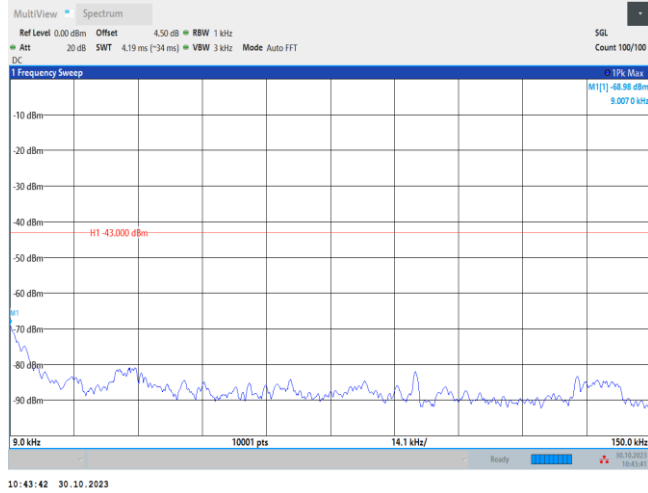
GPRS1900-512-0.009~0.15MHz



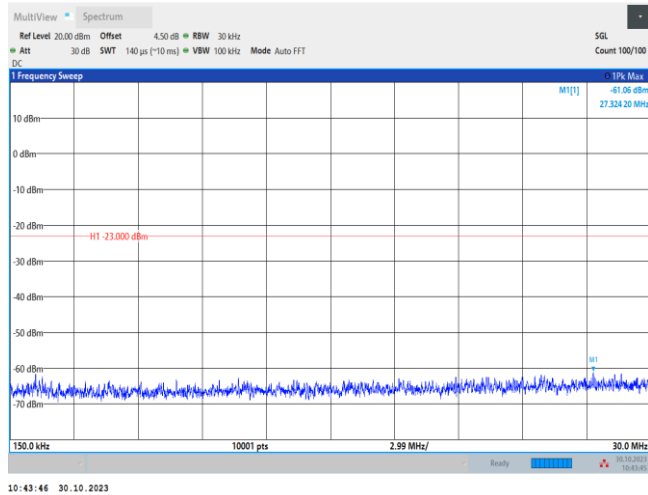
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EGPRS1900-512-0.009~0.15MHz



EGPRS1900-512-0.15~30MHz

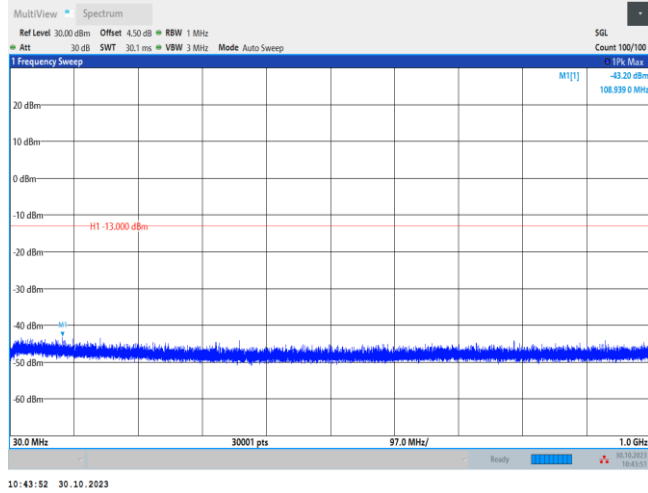


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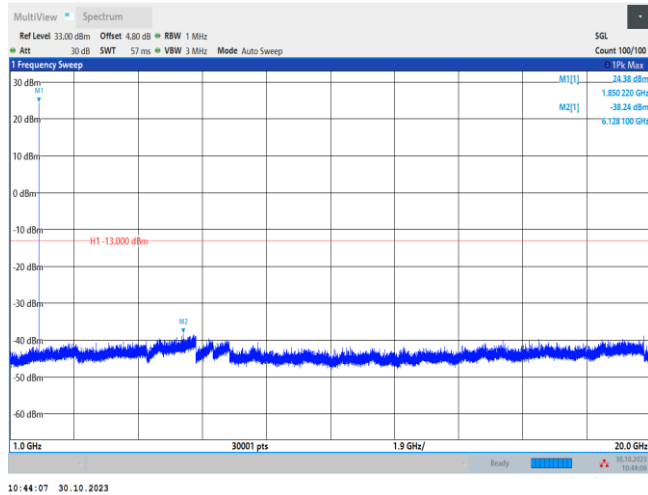
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EGPRS1900-512-30~1000MHz



EGPRS1900-512-1000~20000MHz

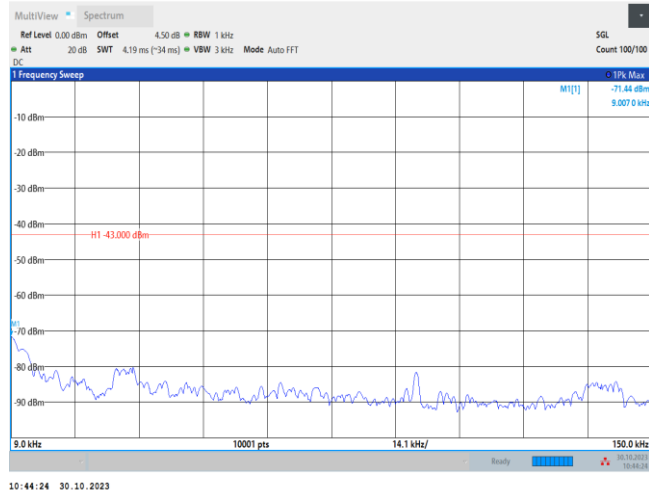


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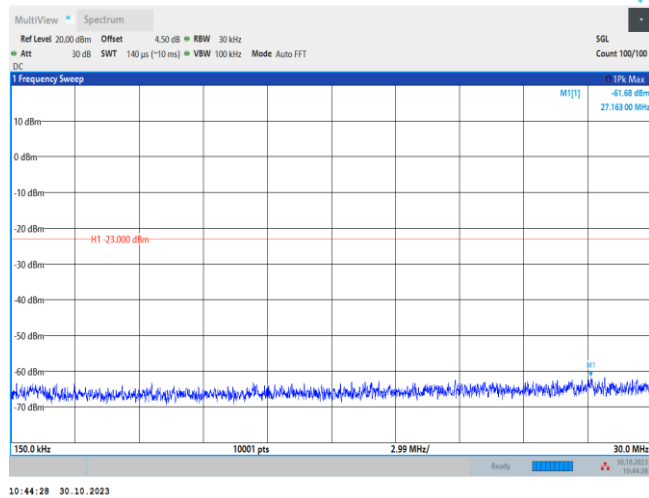
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EGPRS1900-661-0.009~0.15MHz



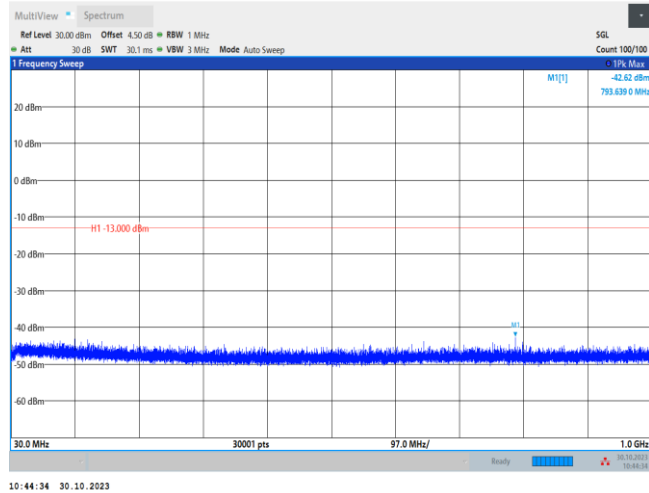
EGPRS1900-661-0.15~30MHz



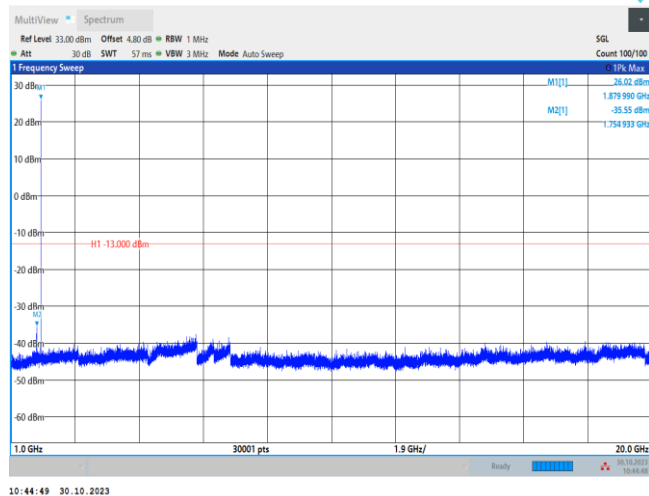
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EGPRS1900-661-30~1000MHz



EGPRS1900-661-1000~20000MHz

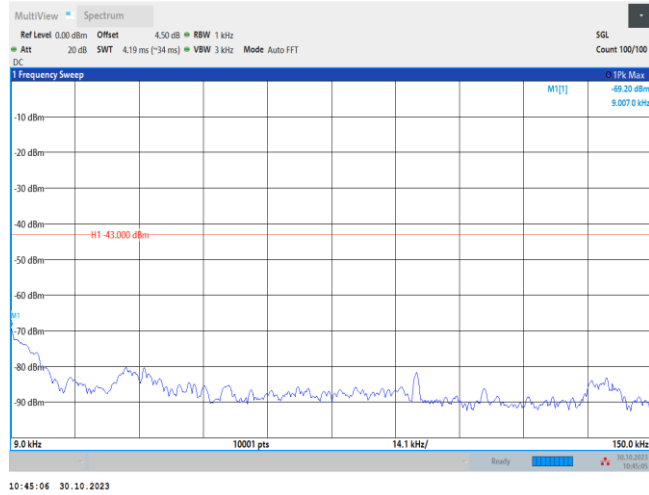


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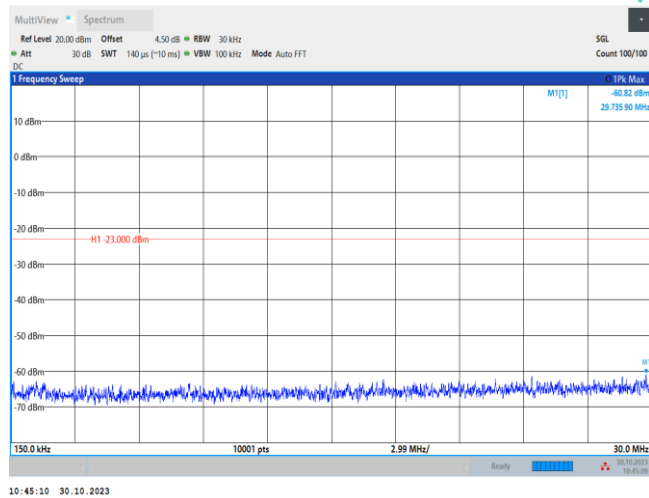
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EGPRS1900-810-0.009~0.15MHz



EGPRS1900-810-0.15~30MHz



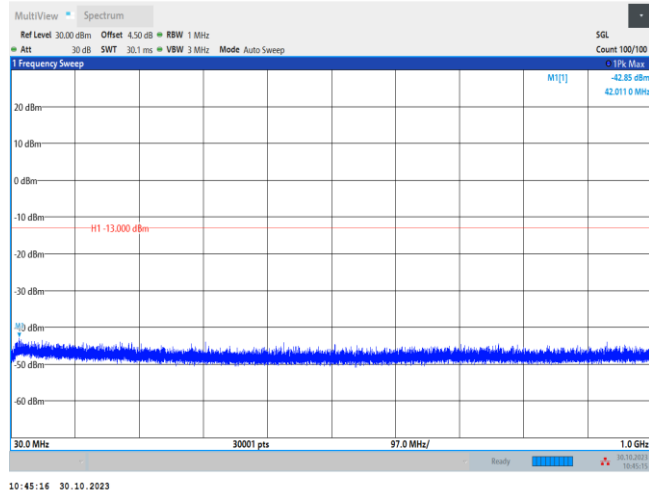
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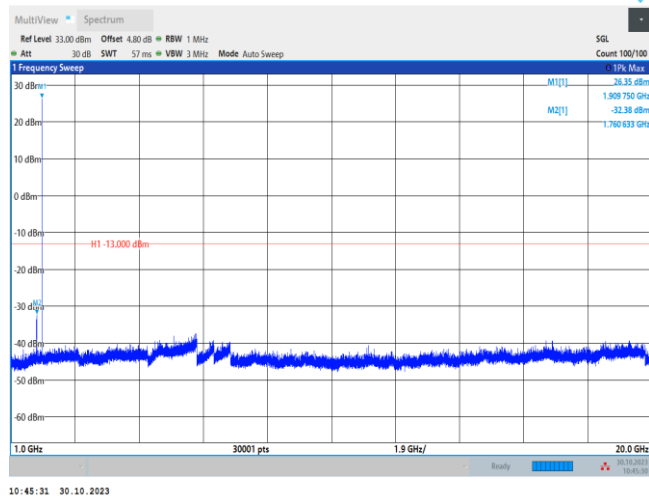
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EGPRS1900-810-30~1000MHz



10:45:16 30.10.2023

EGPRS1900-810-1000~20000MHz



10:45:31 30.10.2023



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

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

Field Strength of Spurious Radiation

Test Band = GSM850

Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.4	76.21	-49.83	25.29	-43.58	-13.00	30.58	Horizontal
2	2472.6	57.19	-49.06	27.27	-59.86	-13.00	46.86	Horizontal
3	3296.8	68.68	-48.63	28.62	-46.59	-13.00	33.59	Horizontal
4	4121	65.19	-48.28	29.62	-48.73	-13.00	35.73	Horizontal
5	4945.2	48.94	-48.07	31.37	-63.03	-13.00	50.03	Horizontal
6	5769.4	43.39	-47.65	32.75	-66.77	-13.00	53.77	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.4	80.20	-49.83	25.29	-39.59	-13.00	26.59	Vertical
2	2472.6	55.64	-49.06	27.27	-61.41	-13.00	48.41	Vertical
3	3296.8	67.32	-48.63	28.62	-47.95	-13.00	34.95	Vertical
4	4121	64.13	-48.28	29.62	-49.79	-13.00	36.79	Vertical
5	4945.2	49.13	-48.07	31.37	-62.84	-13.00	49.84	Vertical
6	5769.4	43.98	-47.65	32.75	-66.18	-13.00	53.18	Vertical



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Test Band = GSM850

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8	77.21	-49.78	25.39	-42.44	-13.00	29.44	Horizontal
2	2509.2	58.68	-48.93	27.32	-58.18	-13.00	45.18	Horizontal
3	3345.6	66.92	-48.66	28.64	-48.36	-13.00	35.36	Horizontal
4	4182	65.09	-48.34	29.73	-48.78	-13.00	35.78	Horizontal
5	5018.4	47.43	-47.95	31.54	-64.24	-13.00	51.24	Horizontal
6	5854.8	42.70	-47.33	32.77	-67.12	-13.00	54.12	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8	78.08	-49.78	25.39	-41.57	-13.00	28.57	Vertical
2	2509.2	58.36	-48.93	27.32	-58.50	-13.00	45.50	Vertical
3	3345.6	66.04	-48.66	28.64	-49.24	-13.00	36.24	Vertical
4	4182	65.83	-48.34	29.73	-48.04	-13.00	35.04	Vertical
5	5018.4	47.37	-47.95	31.54	-64.30	-13.00	51.30	Vertical
6	5854.8	43.51	-47.33	32.77	-66.31	-13.00	53.31	Vertical



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Test Band = GSM850
Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.6	85.30	-49.72	25.49	-34.19	-13.00	21.19	Horizontal
2	2546.4	71.03	-49.03	27.41	-45.84	-13.00	32.84	Horizontal
3	3395.2	68.25	-48.69	28.66	-47.04	-13.00	34.04	Horizontal
4	4244	65.47	-48.21	29.84	-48.17	-13.00	35.17	Horizontal
5	5092.8	49.73	-47.92	31.72	-61.73	-13.00	48.73	Horizontal
6	5941.6	44.63	-47.26	32.79	-65.10	-13.00	52.10	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.6	75.07	-49.72	25.49	-44.42	-13.00	31.42	Vertical
2	2546.4	60.02	-49.03	27.41	-56.85	-13.00	43.85	Vertical
3	3395.2	66.43	-48.69	28.66	-48.86	-13.00	35.86	Vertical
4	4244	66.28	-48.21	29.84	-47.36	-13.00	34.36	Vertical
5	5092.8	44.93	-47.92	31.72	-66.53	-13.00	53.53	Vertical
6	5941.6	43.38	-47.26	32.79	-66.35	-13.00	53.35	Vertical



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Test Band = GSM1900
Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.4	73.77	-48.51	28.98	-41.02	-13.00	28.02	Horizontal
2	5550.6	63.79	-47.66	32.71	-46.42	-13.00	33.42	Horizontal
3	7400.8	58.46	-46.17	36.56	-46.41	-13.00	33.41	Horizontal
4	9251	43.70	-43.20	37.83	-56.94	-13.00	43.94	Horizontal
5	11101.2	44.74	-40.36	39.38	-51.50	-13.00	38.50	Horizontal
6	12951.4	39.56	-39.41	38.63	-56.48	-13.00	43.48	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.4	69.95	-48.51	28.98	-44.84	-13.00	31.84	Vertical
2	5550.6	56.06	-47.66	32.71	-54.15	-13.00	41.15	Vertical
3	7400.8	50.18	-46.17	36.56	-54.69	-13.00	41.69	Vertical
4	9251	43.94	-43.20	37.83	-56.70	-13.00	43.70	Vertical
5	11101.2	50.47	-40.36	39.38	-45.77	-13.00	32.77	Vertical
6	12951.4	47.97	-39.41	38.63	-48.07	-13.00	35.07	Vertical



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Test Band = GSM1900

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3759.75	72.56	-48.31	29.06	-41.95	-13.00	28.95	Horizontal
2	5640	64.79	-47.62	32.73	-45.36	-13.00	32.36	Horizontal
3	7520	51.23	-45.85	36.78	-53.10	-13.00	40.10	Horizontal
4	9400	40.89	-43.05	37.96	-59.46	-13.00	46.46	Horizontal
5	11280	46.21	-40.44	39.34	-50.14	-13.00	37.14	Horizontal
6	13160	40.23	-38.58	38.97	-54.64	-13.00	41.64	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3759.75	68.03	-48.31	29.06	-46.48	-13.00	33.48	Vertical
2	5640	55.96	-47.62	32.73	-54.19	-13.00	41.19	Vertical
3	7520	50.15	-45.85	36.78	-54.18	-13.00	41.18	Vertical
4	9400	47.09	-43.05	37.96	-53.26	-13.00	40.26	Vertical
5	11280	52.79	-40.44	39.34	-43.56	-13.00	30.56	Vertical
6	13160	48.91	-38.58	38.97	-45.96	-13.00	32.96	Vertical



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Test Band = GSM1900

Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5729.25	55.70	-47.54	32.75	-54.35	-13.00	41.35	Horizontal
2	3819.6	74.01	-48.20	29.15	-40.30	-13.00	27.30	Horizontal
3	7639.2	52.00	-44.82	36.63	-51.45	-13.00	38.45	Horizontal
4	9549	45.15	-42.31	38.09	-54.32	-13.00	41.32	Horizontal
5	11458.8	46.56	-40.07	39.31	-49.46	-13.00	36.46	Horizontal
6	13368.6	38.24	-39.15	39.45	-56.72	-13.00	43.72	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5729.25	52.52	-47.54	32.75	-57.53	-13.00	44.53	Vertical
2	3819.6	67.24	-48.20	29.15	-47.07	-13.00	34.07	Vertical
3	7639.2	51.45	-44.82	36.63	-52.00	-13.00	39.00	Vertical
4	9549	50.17	-42.31	38.09	-49.30	-13.00	36.30	Vertical
5	11458.8	52.08	-40.07	39.31	-43.94	-13.00	30.94	Vertical
6	13368.6	45.93	-39.15	39.45	-49.03	-13.00	36.03	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
EGPRS850	190	VL	NT	6.55	0.007829	±2.5	PASS
EGPRS850	190	VN	NT	-4.29	-0.005128	±2.5	PASS
EGPRS850	190	VH	NT	-6.04	-0.007220	±2.5	PASS

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict	
EGPRS1900	661	VL	NT	-15.85	-0.008431	PASS	
EGPRS1900	661	VN	NT	-24.44	-0.013000	PASS	
EGPRS1900	661	VH	NT	-20.79	-0.011059	PASS	



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Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
EGPRS850	190	NV	-30	-8.81	-0.010531	±2.5	PASS
EGPRS850	190	NV	-20	-6.20	-0.007411	±2.5	PASS
EGPRS850	190	NV	-10	1.39	0.001661	±2.5	PASS
EGPRS850	190	NV	0	6.97	0.008331	±2.5	PASS
EGPRS850	190	NV	10	-6.49	-0.007758	±2.5	PASS
EGPRS850	190	NV	20	0.16	0.000191	±2.5	PASS
EGPRS850	190	NV	30	5.36	0.006407	±2.5	PASS
EGPRS850	190	NV	40	4.13	0.004937	±2.5	PASS
EGPRS850	190	NV	50	3.62	0.004327	±2.5	PASS

Temperature						
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
EGPRS1900	661	NV	-30	-13.08	-0.006957	PASS
EGPRS1900	661	NV	-20	-8.68	-0.004617	PASS
EGPRS1900	661	NV	-10	-10.62	-0.005649	PASS
EGPRS1900	661	NV	0	-0.94	-0.000500	PASS
EGPRS1900	661	NV	10	-6.75	-0.003590	PASS
EGPRS1900	661	NV	20	-12.91	-0.006867	PASS
EGPRS1900	661	NV	30	-2.52	-0.001340	PASS
EGPRS1900	661	NV	40	-24.70	-0.013138	PASS
EGPRS1900	661	NV	50	-19.53	-0.010388	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 t (86-512) 62992980 www.sgs.com.cn
 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 sgs.china@sgs.com