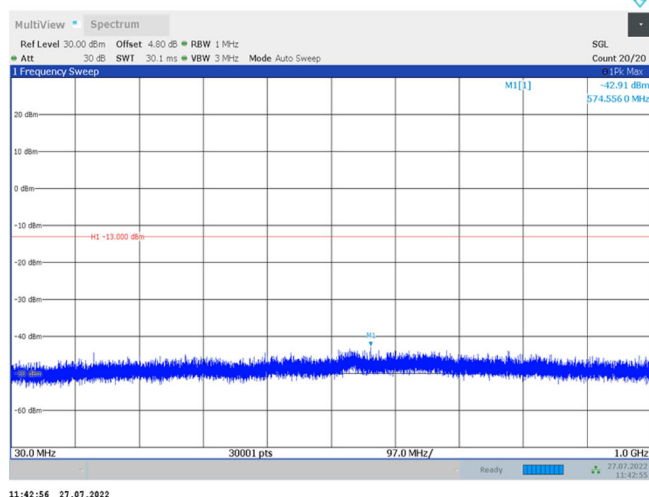


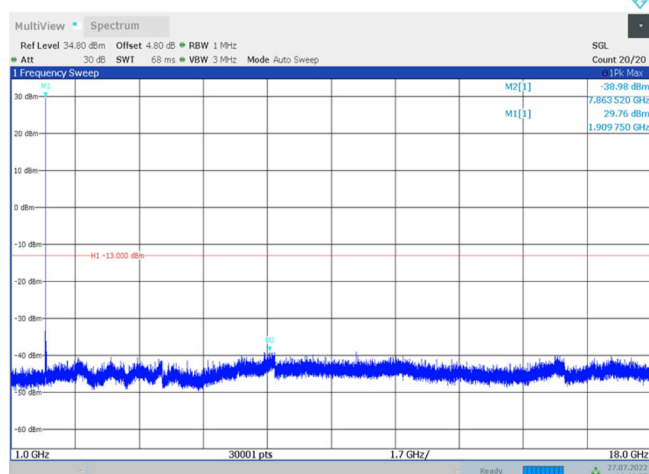
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EGPRS1900-810-30~1000MHz



11:42:56 27.07.2022

EGPRS1900-810-1000~18000MHz



11:43:28 27.07.2022



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Field Strength of Spurious Radiation

Test Band = GSM850
Test Channel = Low

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1261.1429	53.59	-48.30	25.60	-64.37	-13.00	51.37	215	265	Horizontal
2	1648.4000	69.69	-48.22	25.37	-48.42	-13.00	35.42	164	185	Horizontal
3	2472.6000	68.12	-47.32	27.68	-46.78	-13.00	33.78	213	226	Horizontal
4	3296.8000	65.07	-46.67	29.56	-47.30	-13.00	34.30	187	212	Horizontal
5	4121.0000	51.31	-45.91	30.98	-58.88	-13.00	45.88	129	252	Horizontal
6	4945.2000	49.59	-45.69	32.73	-58.63	-13.00	45.63	158	293	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.4000	60.48	-48.22	25.37	-57.63	-13.00	44.63	216	188	Vertical
2	2472.5714	56.00	-47.32	27.68	-58.90	-13.00	45.90	159	121	Vertical
3	3296.8000	56.38	-46.67	29.56	-55.99	-13.00	42.99	238	242	Vertical
4	4121.0000	49.17	-45.91	30.98	-61.02	-13.00	48.02	267	292	Vertical
5	4945.2000	48.38	-45.69	32.73	-59.84	-13.00	46.84	184	68	Vertical
6	6637.1429	51.09	-44.33	35.51	-52.99	-13.00	39.99	236	0	Vertical



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Test Band = GSM850
Test Channel = Mid

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8000	70.60	-48.19	25.38	-47.47	-13.00	34.47	236	212	Horizontal
2	2509.2000	68.54	-47.24	27.80	-46.15	-13.00	33.15	198	251	Horizontal
3	3345.6000	62.15	-46.62	29.50	-50.23	-13.00	37.23	216	263	Horizontal
4	4182.0000	51.73	-45.95	31.07	-58.41	-13.00	45.41	228	263	Horizontal
5	5018.4000	49.11	-45.73	32.89	-58.99	-13.00	45.99	257	198	Horizontal
6	8274.2857	49.37	-42.17	37.17	-50.88	-13.00	37.88	178	342	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8000	56.30	-48.19	25.38	-61.77	-13.00	48.77	179	256	Vertical
2	2509.2000	56.23	-47.24	27.80	-58.46	-13.00	45.46	186	138	Vertical
3	3345.6000	51.71	-46.62	29.50	-60.67	-13.00	47.67	153	71	Vertical
4	4182.0000	48.65	-45.95	31.07	-61.49	-13.00	48.49	224	176	Vertical
5	5018.4000	49.30	-45.73	32.89	-58.80	-13.00	45.80	243	356	Vertical
6	6878.8571	50.66	-44.16	35.93	-52.82	-13.00	39.82	165	83	Vertical



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Test Band = GSM850

Test Channel = High

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6000	64.32	-48.16	25.39	-53.71	-13.00	40.71	167	234	Horizontal
2	2546.4000	63.91	-47.11	27.92	-50.54	-13.00	37.54	214	248	Horizontal
3	3395.2000	55.43	-46.55	29.44	-56.94	-13.00	43.94	182	301	Horizontal
4	4244.0000	53.06	-45.88	31.19	-56.89	-13.00	43.89	251	209	Horizontal
5	5092.8000	48.87	-45.41	32.93	-58.87	-13.00	45.87	239	170	Horizontal
6	7504	50.09	-43.41	36.44	-52.14	-13.00	39.14	136	183	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1697.6000	53.98	-48.16	25.39	-64.05	-13.00	51.05	167	309	Vertical
2	2546.4000	54.18	-47.11	27.92	-60.27	-13.00	47.27	192	110	Vertical
3	3395.2000	50.73	-46.55	29.44	-61.64	-13.00	48.64	187	150	Vertical
4	4244.0000	50.02	-45.88	31.19	-59.93	-13.00	46.93	218	46	Vertical
5	5092.8000	48.12	-45.41	32.93	-59.62	-13.00	46.62	229	19	Vertical
6	6710.8571	50.32	-44.07	35.66	-53.34	-13.00	40.34	125	136	Vertical



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Test Band = GSM1900
Test Channel = Low

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3700.4000	49.52	-45.50	29.97	-61.27	-13.00	48.27	214	135	Horizontal
2	5550.6000	48.80	-45.15	32.97	-58.65	-13.00	45.65	236	16	Horizontal
3	7400.8000	48.17	-43.41	36.49	-54.01	-13.00	41.01	261	352	Horizontal
4	9251.0000	44.44	-40.23	38.38	-52.68	-13.00	39.68	215	329	Horizontal
5	11101.200	40.86	-37.96	39.09	-53.27	-13.00	40.27	188	30	Horizontal
6	15405	41.44	-33.58	38.70	-48.70	-13.00	35.70	145	75	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3700.4000	49.77	-45.50	29.97	-61.02	-13.00	48.02	211	359	Vertical
2	5550.6000	49.39	-45.15	32.97	-58.06	-13.00	45.06	236	43	Vertical
3	7400.8000	48.22	-43.41	36.49	-53.96	-13.00	40.96	291	148	Vertical
4	9251.0000	44.58	-40.23	38.38	-52.54	-13.00	39.54	145	105	Vertical
5	11101.200	41.21	-37.96	39.09	-52.92	-13.00	39.92	175	298	Vertical
6	14547.75	43.43	-35.05	39.98	-46.91	-13.00	33.91	180	252	Vertical



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Test Band = GSM1900
Test Channel = Mid

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760.0000	50.44	-45.75	30.19	-60.39	-13.00	47.39	166	88	Horizontal
2	5640.0000	48.38	-44.98	33.17	-58.70	-13.00	45.70	145	326	Horizontal
3	7520.0000	48.69	-43.10	36.43	-53.24	-13.00	40.24	185	88	Horizontal
4	9400.0000	43.36	-39.83	38.49	-53.24	-13.00	40.24	126	3	Horizontal
5	11280.000	41.79	-37.41	39.11	-51.77	-13.00	38.77	291	3	Horizontal
6	13708.5	42.12	-36.18	40.05	-49.27	-13.00	36.27	170	134	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760.0000	49.66	-45.75	30.19	-61.17	-13.00	48.17	269	4	Vertical
2	5640.0000	48.17	-44.98	33.17	-58.91	-13.00	45.91	251	16	Vertical
3	7520.0000	47.69	-43.10	36.43	-54.24	-13.00	41.24	148	226	Vertical
4	9400.0000	42.90	-39.83	38.49	-53.70	-13.00	40.70	175	60	Vertical
5	11280.000	40.79	-37.41	39.11	-52.77	-13.00	39.77	211	269	Vertical
6	15150	43.00	-34.44	39.02	-47.68	-13.00	34.68	166	255	Vertical



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Test Band = GSM1900
Test Channel = High

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3819.6000	49.49	-45.99	30.38	-61.38	-13.00	48.38	196	251	Horizontal
2	7639.2000	47.41	-43.01	36.47	-54.39	-13.00	41.39	155	133	Horizontal
3	9549.0000	43.24	-39.96	38.45	-53.52	-13.00	40.52	263	352	Horizontal
4	11458.800	40.18	-37.33	39.04	-53.37	-13.00	40.37	251	88	Horizontal
5	13649.25	42.38	-36.12	40.10	-48.90	-13.00	35.90	145	196	Horizontal
6	16959.75	43.61	-33.68	38.48	-46.85	-13.00	33.85	170	74	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3819.6000	49.50	-45.99	30.38	-61.37	-13.00	48.37	188	251	Vertical
2	7639.2000	47.51	-43.01	36.47	-54.29	-13.00	41.29	149	14	Vertical
3	9549.0000	43.54	-39.96	38.45	-53.22	-13.00	40.22	176	105	Vertical
4	11458.800	40.10	-37.33	39.04	-53.45	-13.00	40.45	253	26	Vertical
5	14564.25	42.30	-35.13	39.97	-48.12	-13.00	35.12	233	165	Vertical
6	16980	42.30	-33.43	38.49	-47.90	-13.00	34.90	200	208	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:

$$\text{Level} = \text{Reading Level} + \text{AF(dB/m)} + \text{Factor(dB)}$$

$$\text{AF} = \text{Antenna Factor(dB/m)}$$

$$\text{Factor} = \text{Cable Factor(dB)} - \text{Preamplifier gain (dB)}$$

$$\text{Margin} = \text{Limit(dBm)} - \text{Level(dBm)}$$

$$\text{dBm} = \text{dBμV} - 95.26$$


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