



Appendix B

GSM 850 & 1900



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1. Effective (Isotropic) Radiated Power Output Data

Down Antenna:

Band	Channel	Slot	Power(dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	33.11	25.01	38.45	PASS
GSM850	190	---	33.06	24.96	38.45	PASS
GSM850	251	---	33.11	25.01	38.45	PASS
EGPRS850	128	1	33.16	25.06	38.45	PASS
EGPRS850	128	2	31.16	23.06	38.45	PASS
EGPRS850	128	3	29.08	20.98	38.45	PASS
EGPRS850	128	4	27.52	19.42	38.45	PASS
EGPRS850	190	1	33.12	25.02	38.45	PASS
EGPRS850	190	2	31.17	23.07	38.45	PASS
EGPRS850	190	3	28.93	20.83	38.45	PASS
EGPRS850	190	4	27.28	19.18	38.45	PASS
EGPRS850	251	1	33.13	25.03	38.45	PASS
EGPRS850	251	2	31.16	23.06	38.45	PASS
EGPRS850	251	3	28.88	20.78	38.45	PASS
EGPRS850	251	4	27.27	19.17	38.45	PASS



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Up Antenna:

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	29.54	27.02	33.00	PASS
GSM1900	661	---	29.93	27.41	33.00	PASS
GSM1900	810	---	29.92	27.40	33.00	PASS
EGPRS1900	512	1	29.53	27.01	33.00	PASS
EGPRS1900	512	2	27.73	25.21	33.00	PASS
EGPRS1900	512	3	26.00	23.48	33.00	PASS
EGPRS1900	512	4	24.11	21.59	33.00	PASS
EGPRS1900	661	1	29.91	27.39	33.00	PASS
EGPRS1900	661	2	27.57	25.05	33.00	PASS
EGPRS1900	661	3	25.52	23.00	33.00	PASS
EGPRS1900	661	4	24.02	21.50	33.00	PASS
EGPRS1900	810	1	29.89	27.37	33.00	PASS
EGPRS1900	810	2	27.66	25.14	33.00	PASS
EGPRS1900	810	3	25.51	22.99	33.00	PASS
EGPRS1900	810	4	24.01	21.49	33.00	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBi]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



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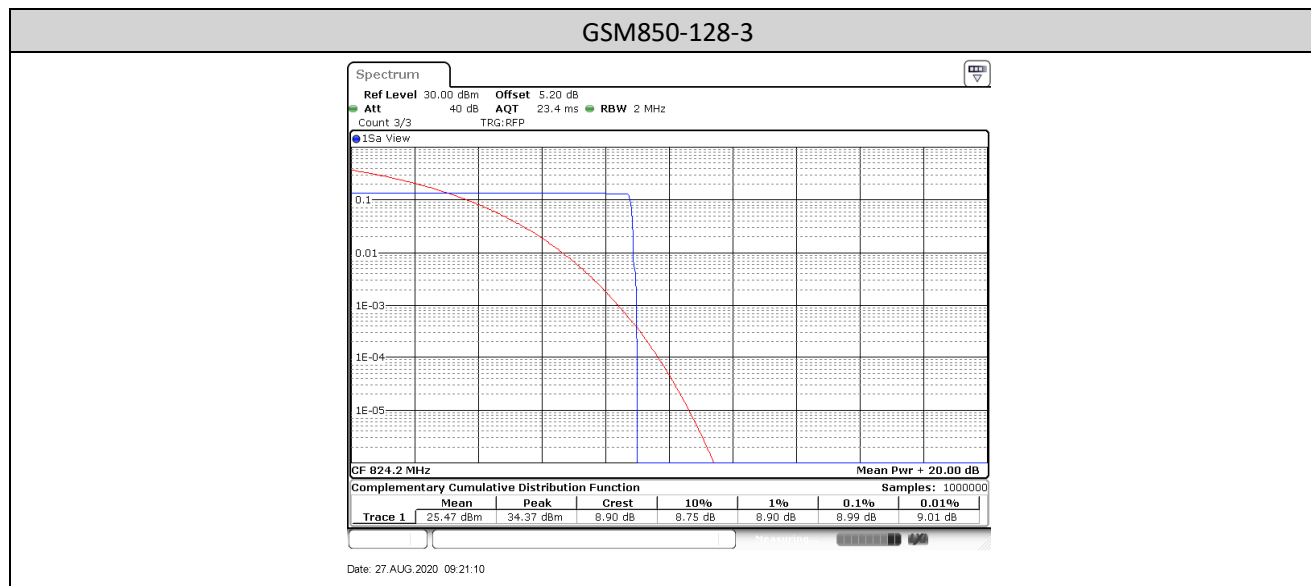


2. Peak-to-Average Ratio

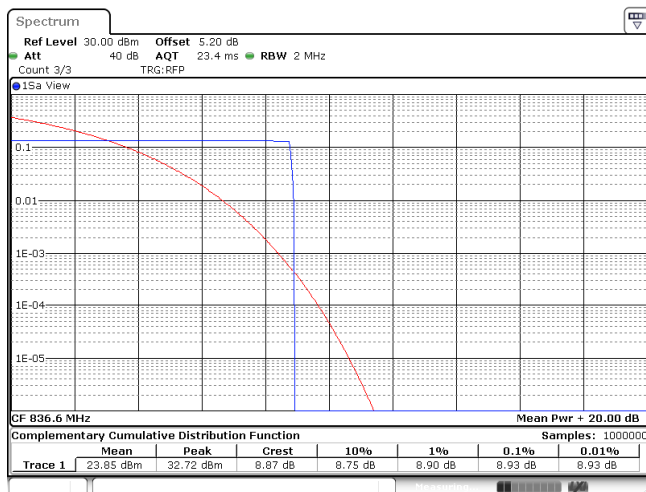
2.1. Test Result

Band	Channel	PCL	Result(dB)	Limit(dB)	Verdict
GSM850	128	3	8.99	13	PASS
GSM850	190	3	8.93	13	PASS
GSM850	251	3	9.8	13	PASS
EGPRS850	128	8	11.88	13	PASS
EGPRS850	190	8	12.38	13	PASS
EGPRS850	251	8	11.39	13	PASS
GSM1900	512	0	9.01	13	PASS
GSM1900	661	0	9.04	13	PASS
GSM1900	810	0	9.01	13	PASS
EGPRS1900	512	2	11.65	13	PASS
EGPRS1900	661	2	12.72	13	PASS
EGPRS1900	810	2	12.43	13	PASS

2.2. Part II - Test Plots

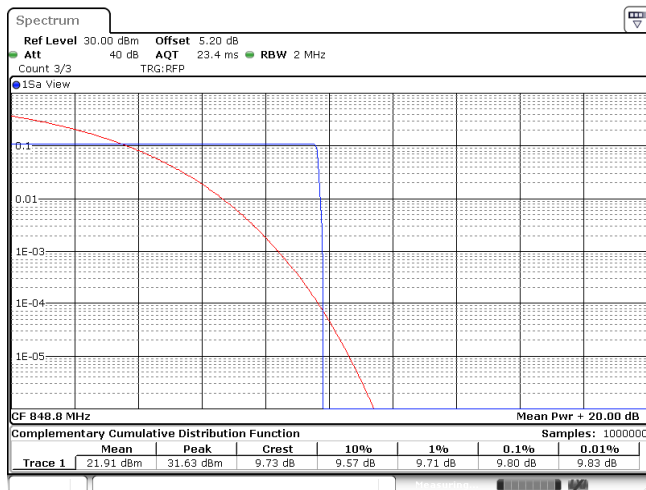


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GSM850-251-3

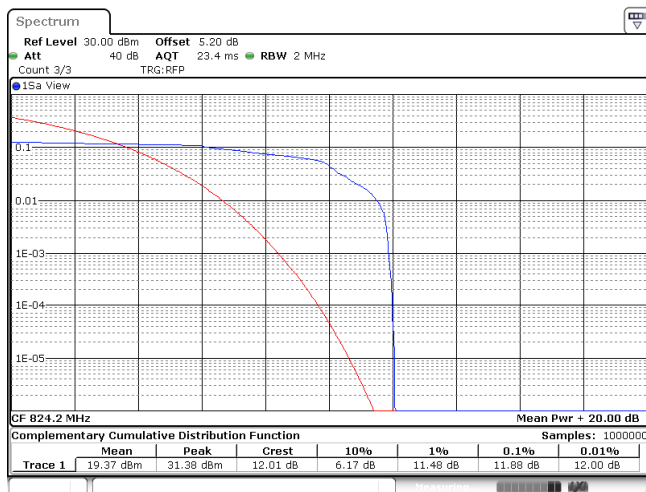


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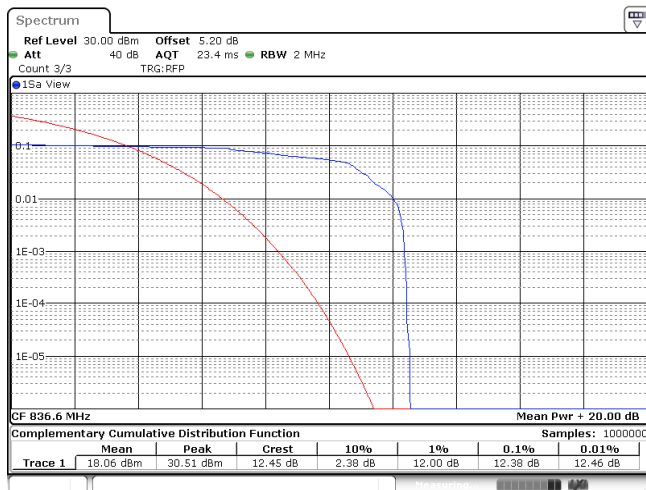
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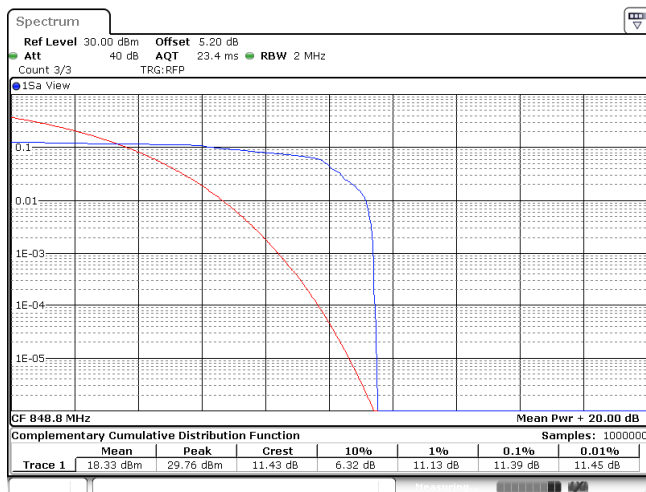
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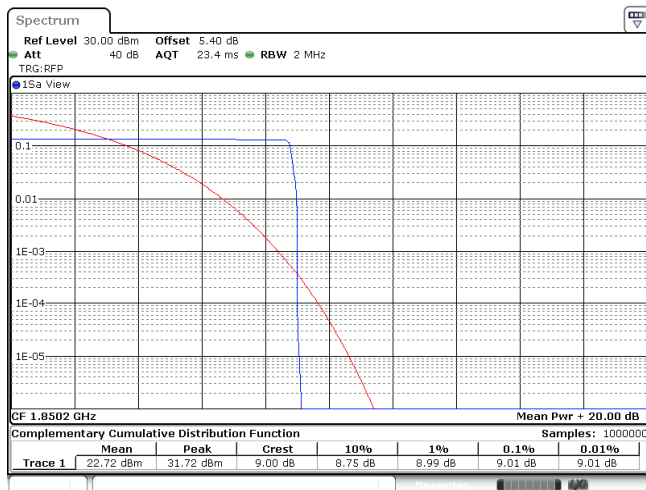
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EGPRS850-251-8



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GSM1900-512-0



Date: 27.AUG.2020 08:53:44



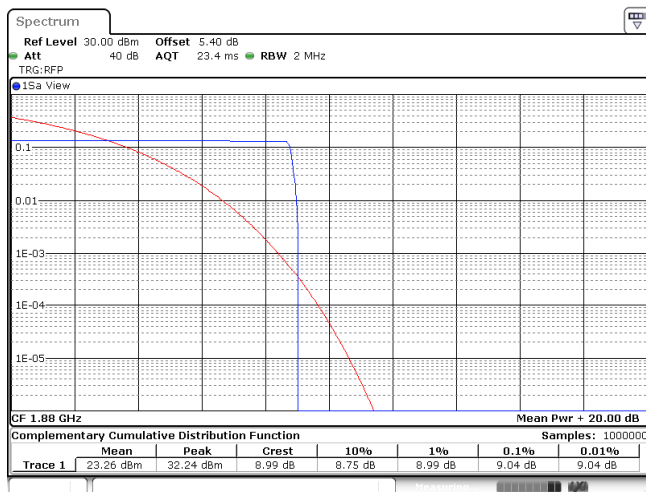
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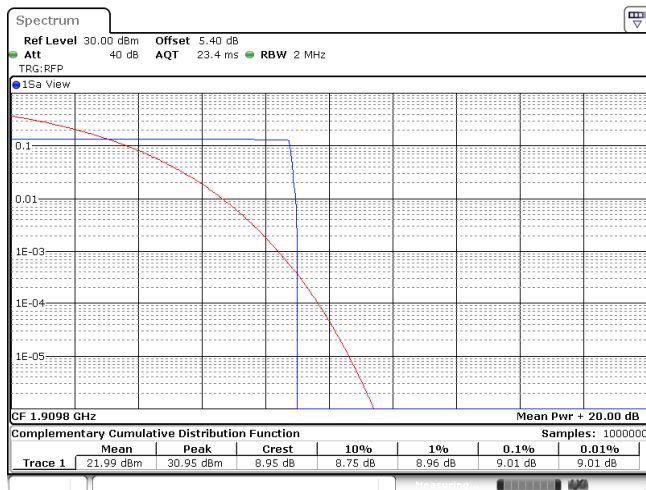
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GSM1900-661-0



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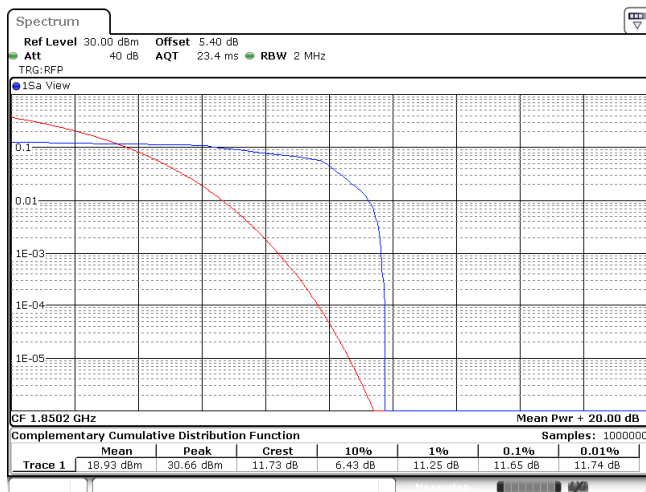


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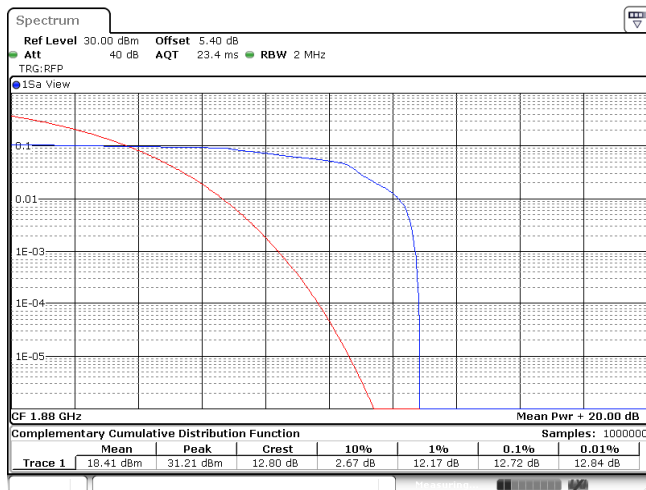
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EGPRS1900-661-2



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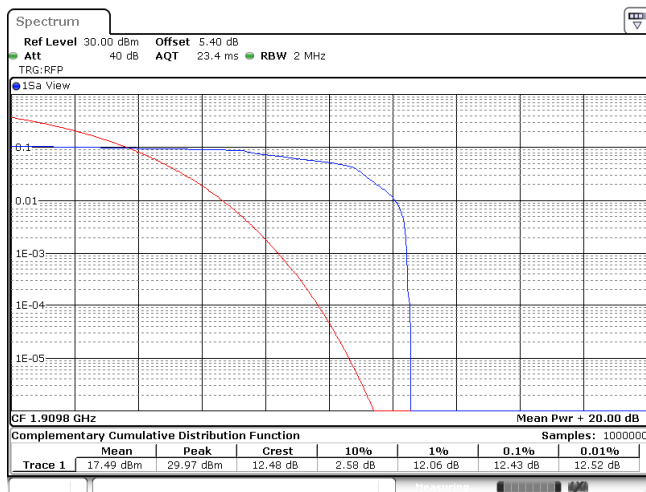


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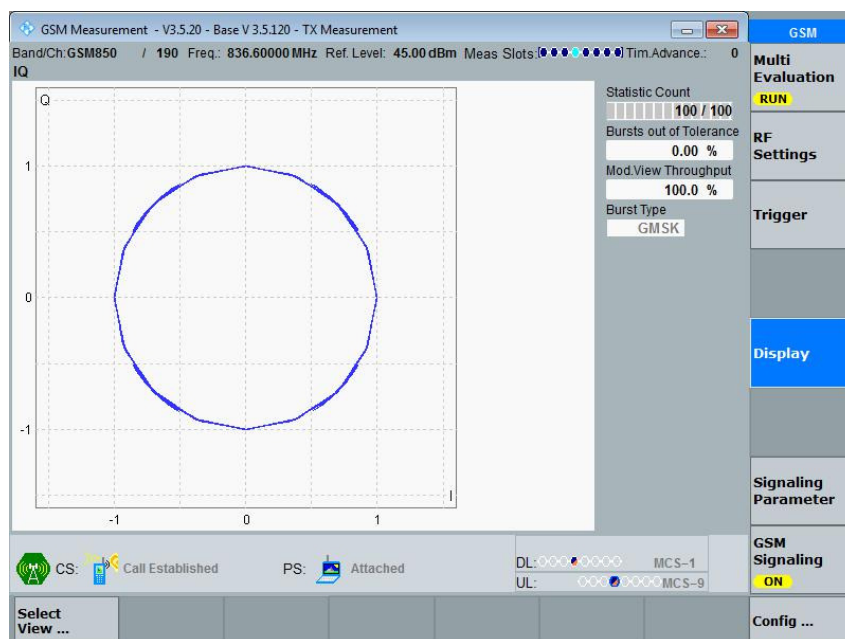
3. Modulation Characteristics

3.1. For GSM

3.1.1. Test Band = GSM 850

3.1.1.1. Test Mode = GSM/TM1

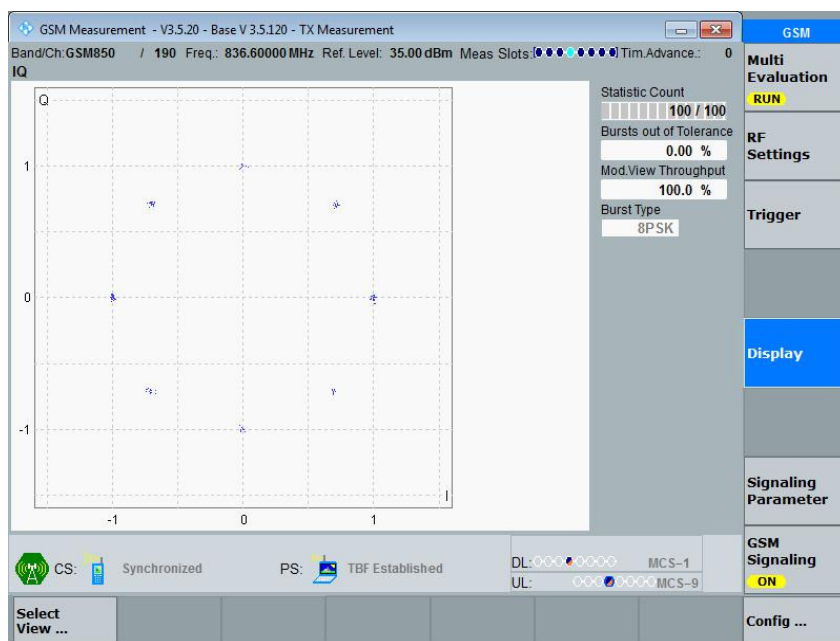
3.1.1.1.1. Test Channel = MCH





3.1.1.2. Test Mode = GSM/TM2

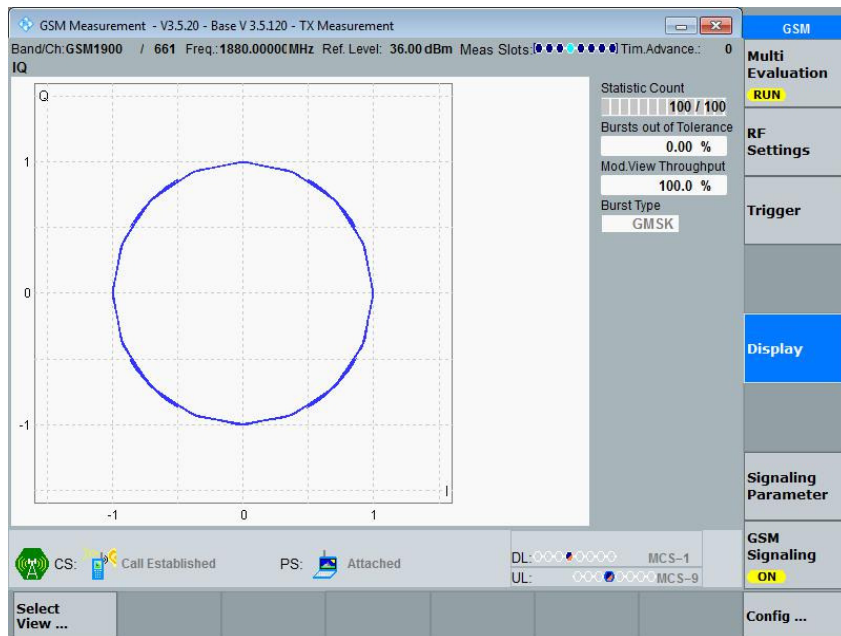
3.1.1.2.1. Test Channel = MCH



3.1.2. Test Band = GSM 1900

3.1.2.1. Test Mode = GSM/TM1

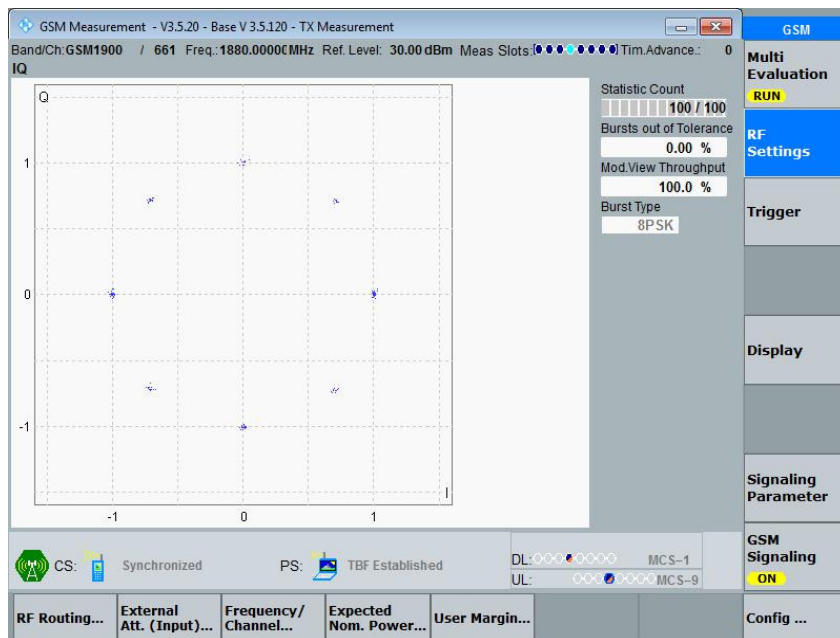
3.1.2.1.1. Test Channel = MCH





3.1.2.2. Test Mode = GSM/TM2

3.1.2.2.1. Test Channel = MCH



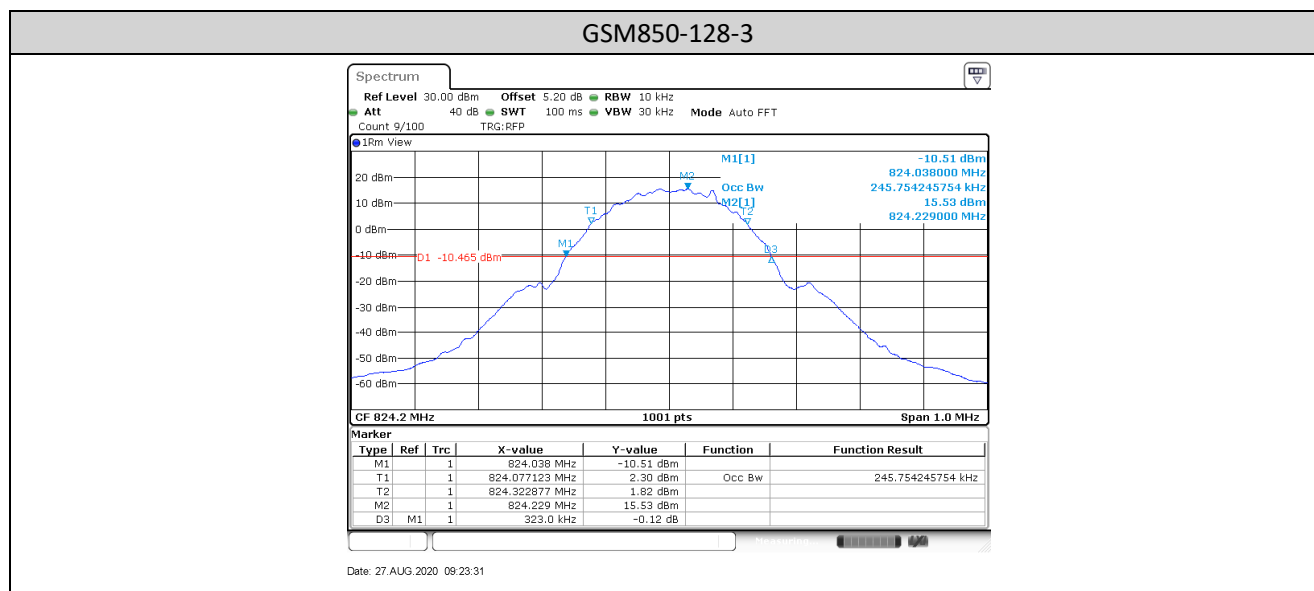


4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	3	0.246	0.323	---	PASS
GSM850	190	3	0.247	0.323	---	PASS
GSM850	251	3	0.247	0.323	---	PASS
EGPRS850	128	8	0.244	0.319	---	PASS
EGPRS850	190	8	0.246	0.319	---	PASS
EGPRS850	251	8	0.247	0.322	---	PASS
GSM1900	512	0	0.246	0.325	---	PASS
GSM1900	661	0	0.246	0.323	---	PASS
GSM1900	810	0	0.246	0.324	---	PASS
EGPRS1900	512	2	0.248	0.322	---	PASS
EGPRS1900	661	2	0.246	0.317	---	PASS
EGPRS1900	810	2	0.249	0.325	---	PASS

4.2. Test Plots



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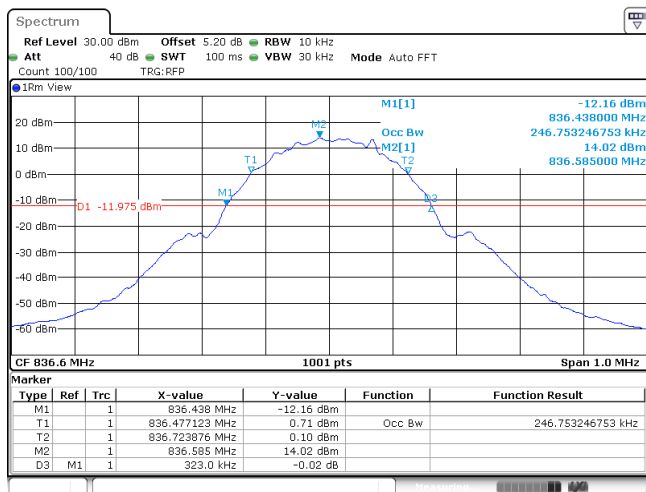
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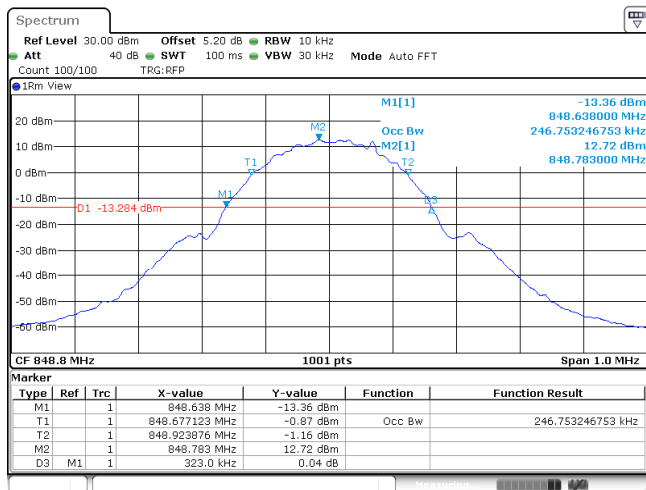
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GSM850-190-3



Date: 27.AUG.2020 09:23:49

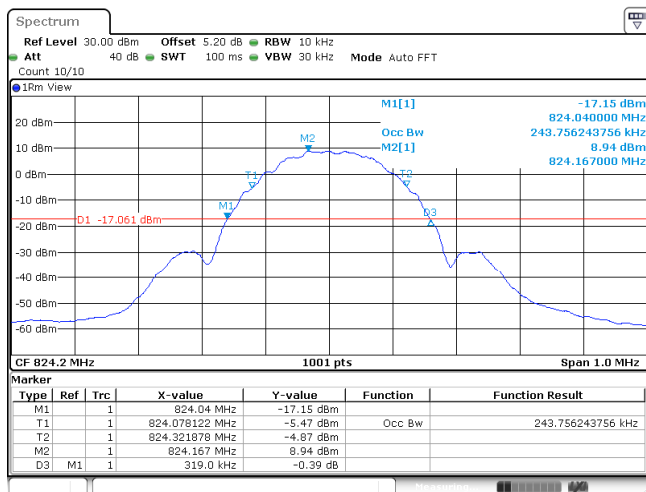
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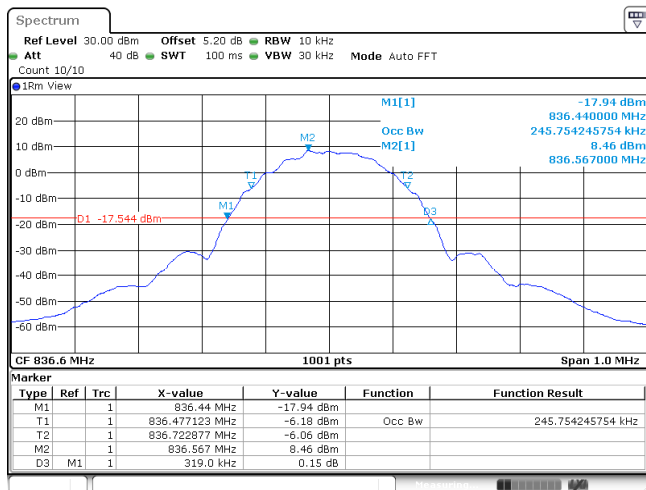


EGPRS850-128-8



Date: 27.AUG.2020 09:07:02

EGPRS850-190-8



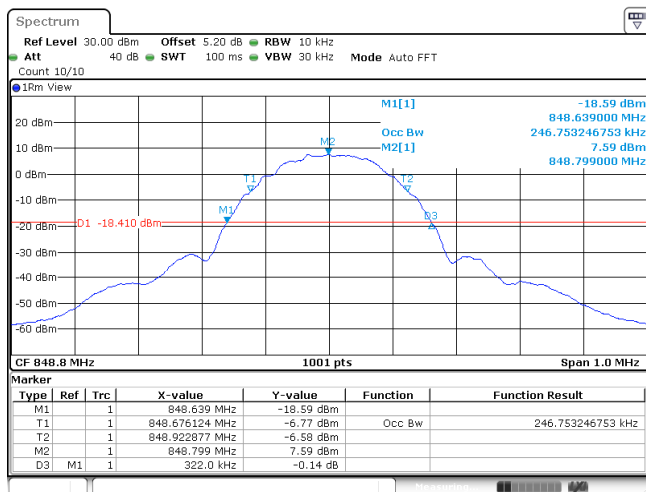
Date: 27.AUG.2020 09:07:15



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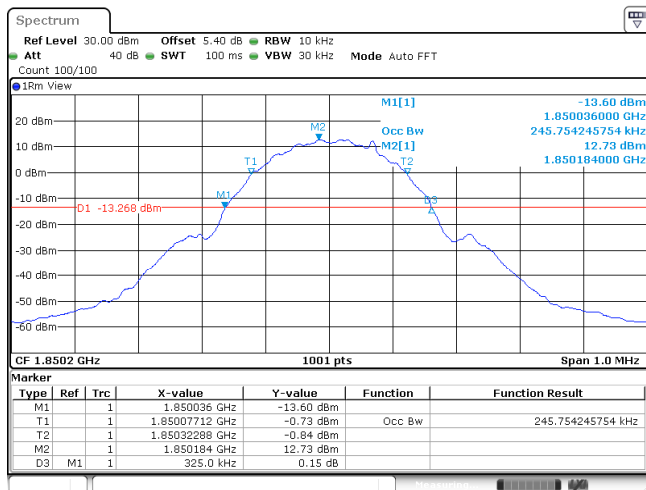
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EGPRS850-251-8



Date: 27.AUG.2020 09:07:27

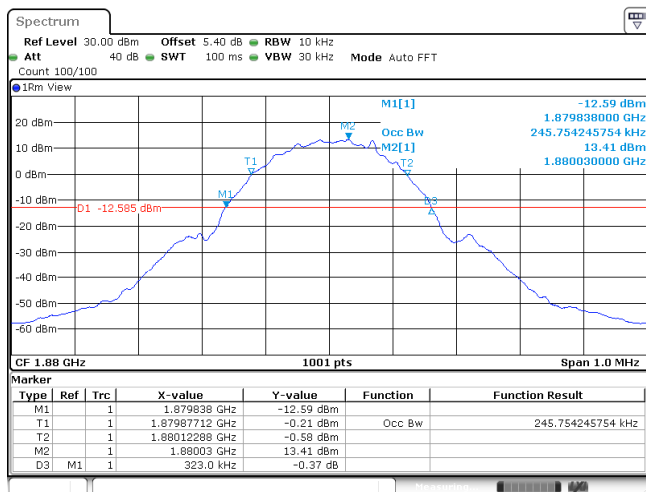
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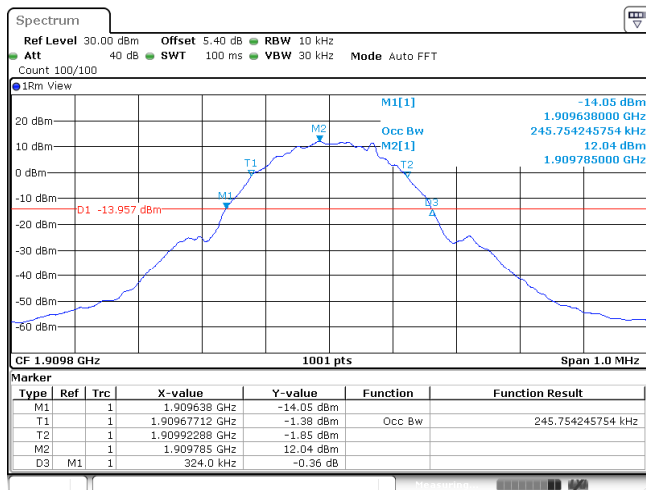


GSM1900-661-0



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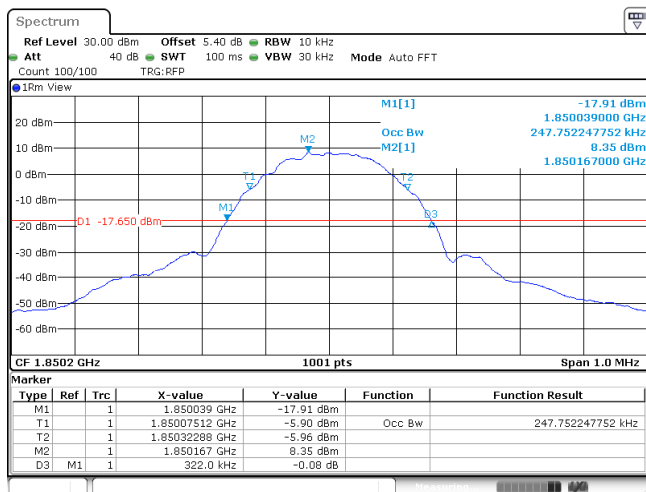
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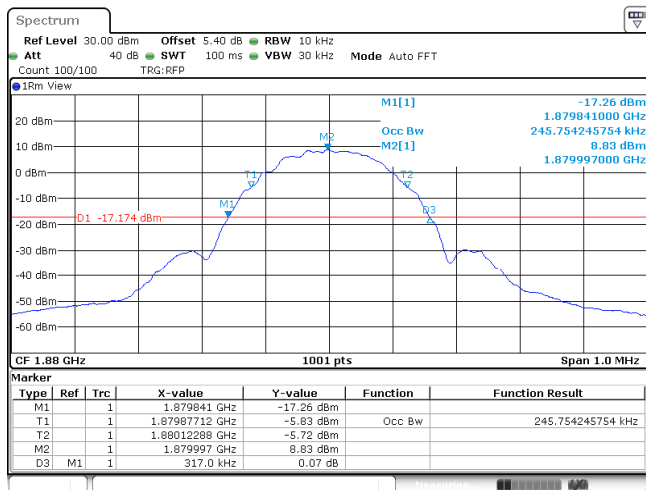


EGPRS1900-512-2



Date: 27.AUG.2020 09:16:56

EGPRS1900-661-2



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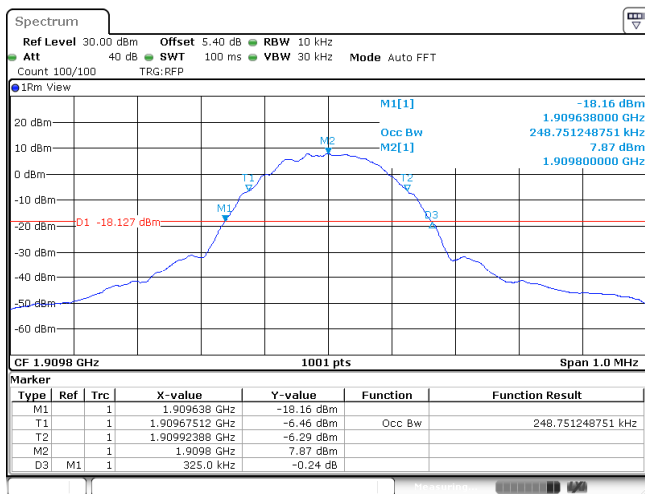


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EGPRS1900-810-2



Date: 27.AUG.2020 09:17:35



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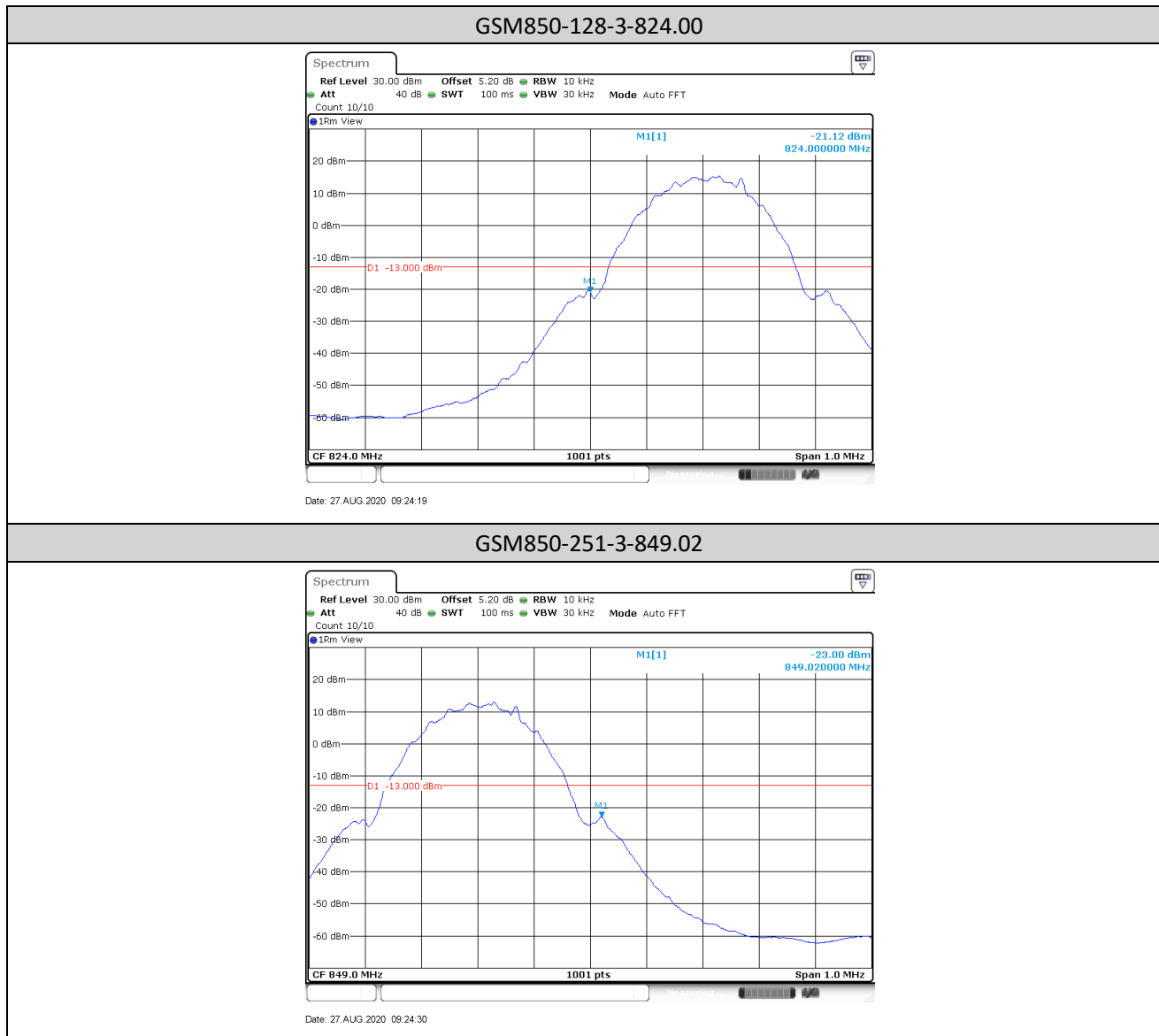
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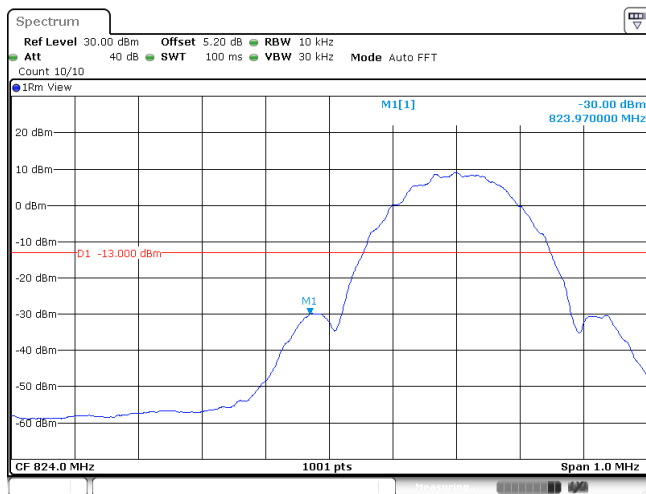
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5. Band Edge Compliance

5.1. Test Plots



EGPRS850-128-8-823.97



Date: 27.AUG.2020 09:07:40

EGPRS850-251-8-849.02



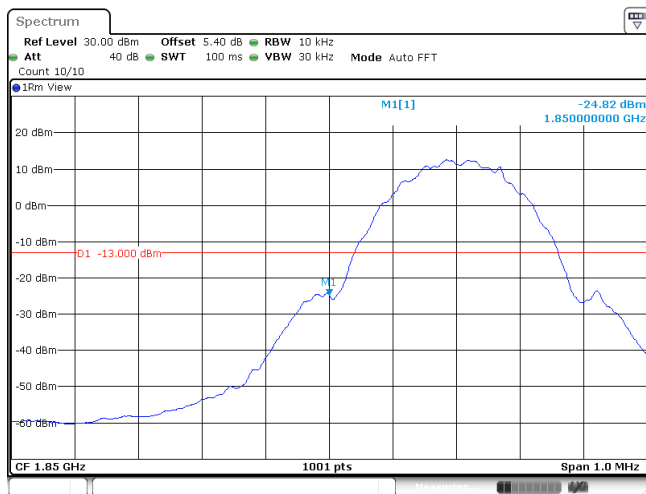
Date: 27.AUG.2020 09:07:51



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GSM1900-512-0-1850.00



Date: 27.AUG.2020 08:56:47

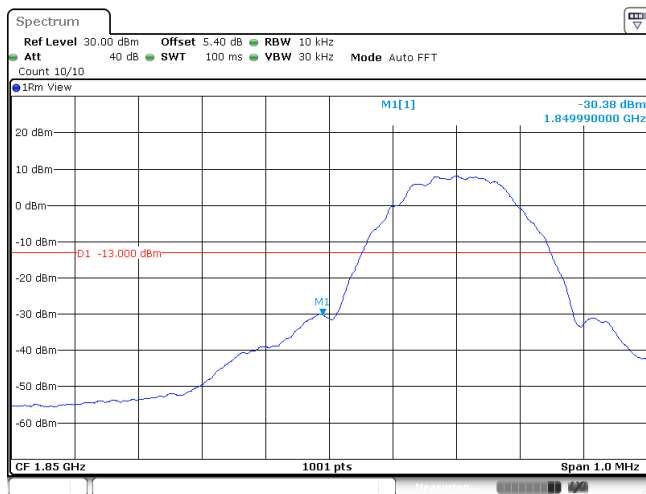
GSM1900-810-0-1910.02



Date: 27.AUG.2020 08:56:57



EGPRS1900-512-2-1849.99



Date: 27.AUG.2020 09:17:47

EGPRS1900-810-2-1910.01



Date: 27.AUG.2020 09:17:58



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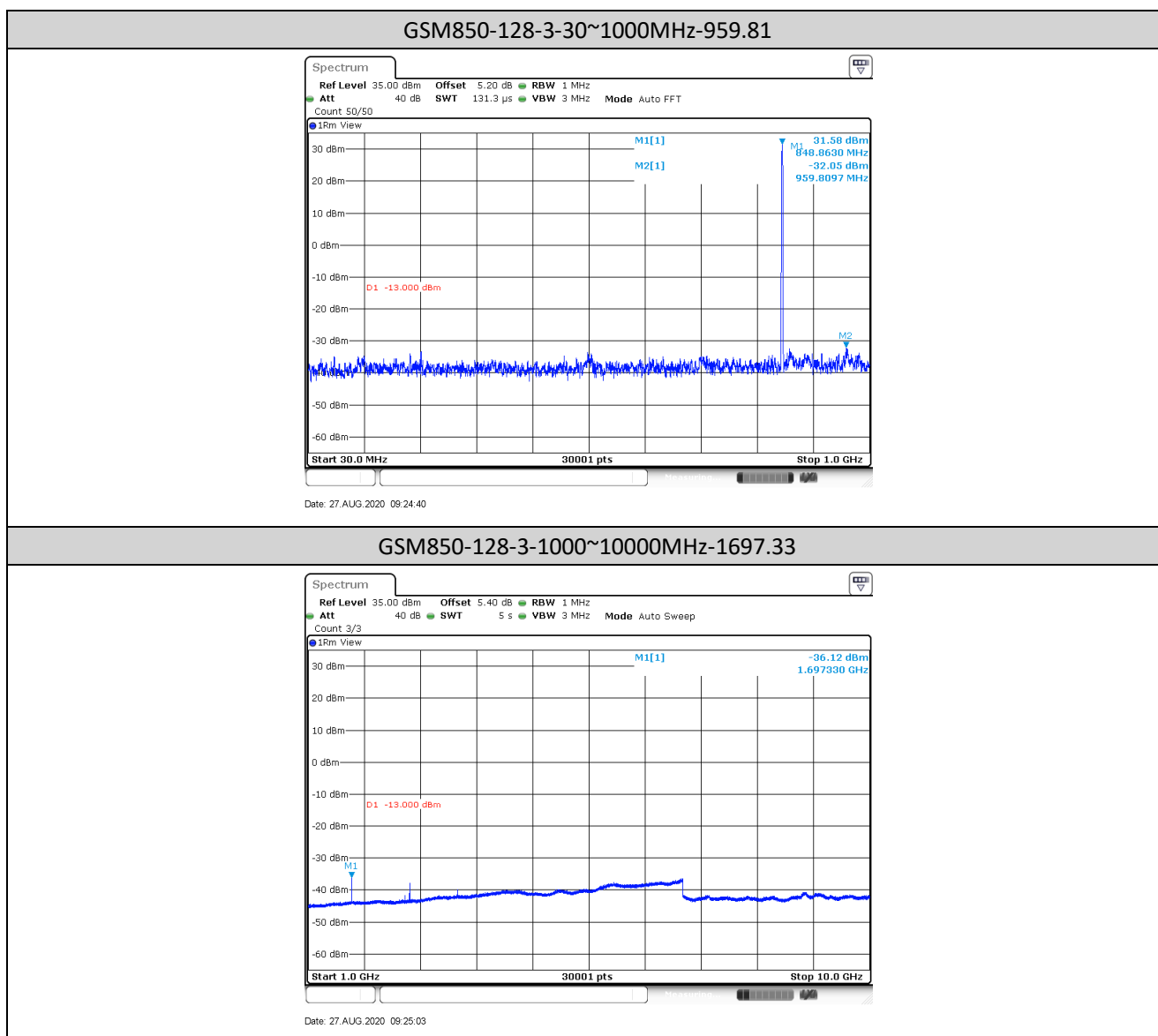
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6. Spurious Emission at Antenna Terminal

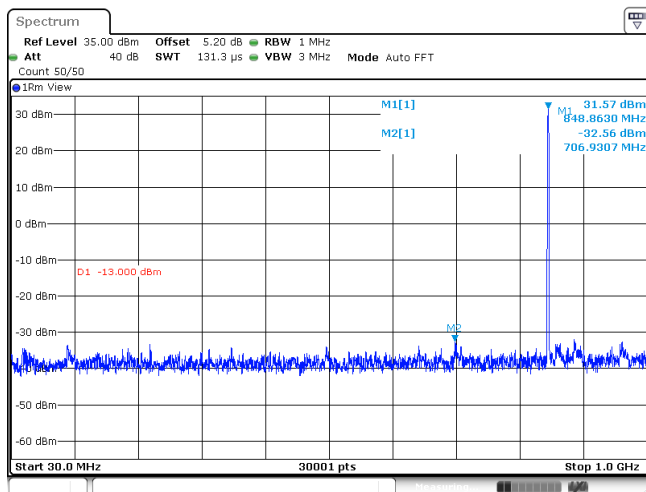
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

6.1.Test Plots

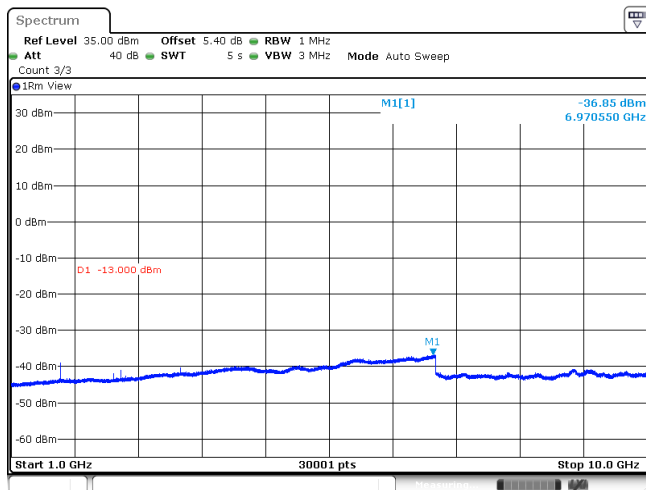


GSM850-190-3-30~1000MHz-706.93



Date: 27.AUG.2020 09:25:13

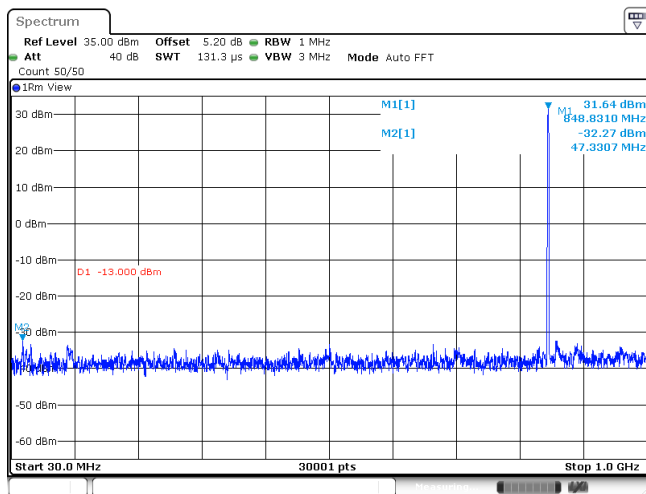
GSM850-190-3-1000~10000MHz-6970.55



Date: 27.AUG.2020 09:25:35

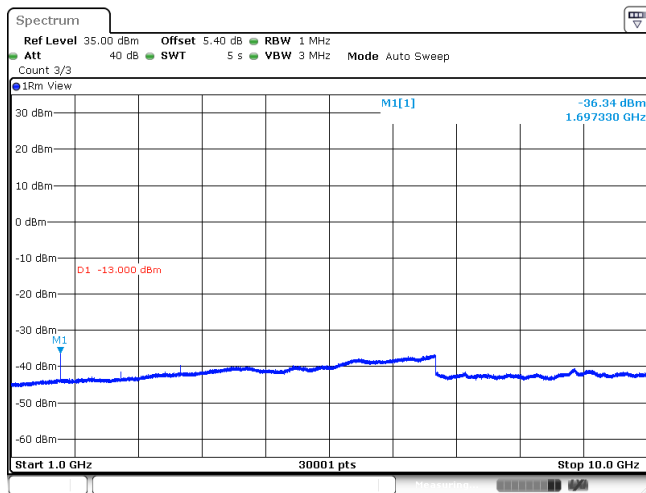


GSM850-251-3-30~1000MHz-47.33



Date: 27.AUG.2020 09:25:45

GSM850-251-3-1000~10000MHz-1697.33



Date: 27.AUG.2020 09:26:08

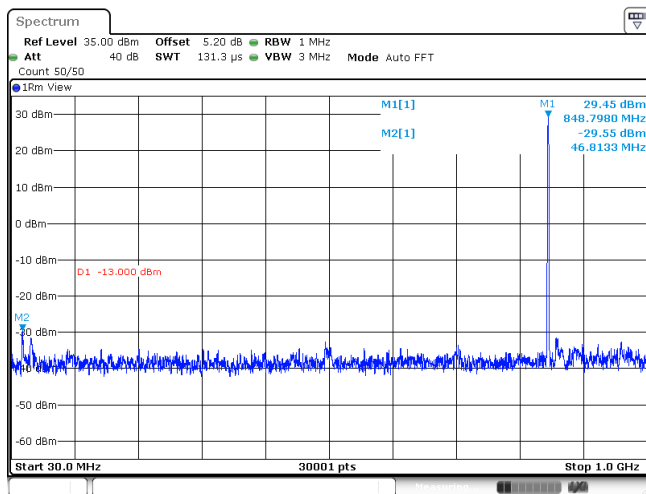


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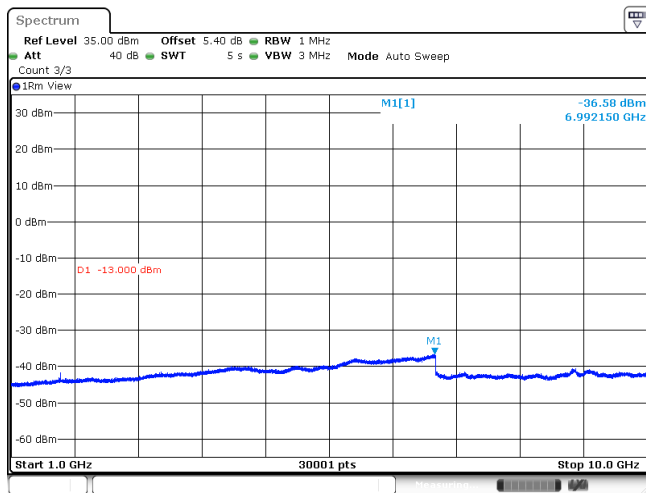
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EGPRS850-128-8-30~1000MHz-46.81



Date: 27.AUG.2020 09:08:03

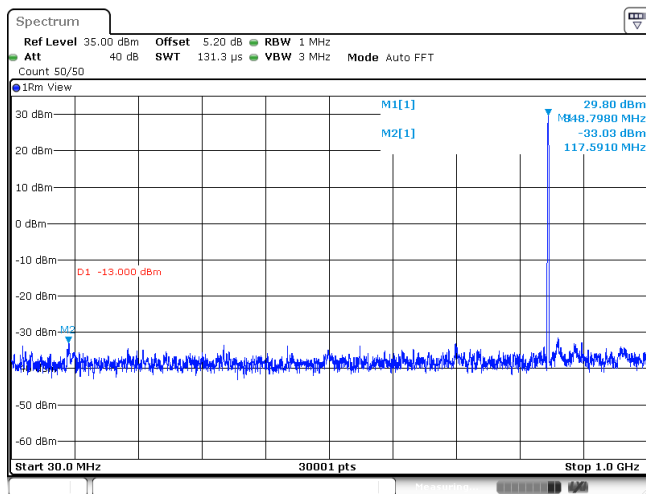
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Date: 27.AUG.2020 09:08:25

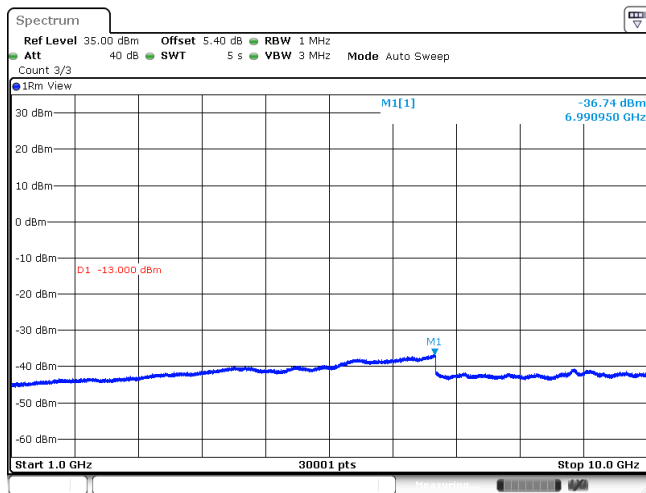


EGPRS850-190-8-30~1000MHz-117.59



Date: 27.AUG.2020 09:08:36

EGPRS850-190-8-1000~10000MHz-6990.95



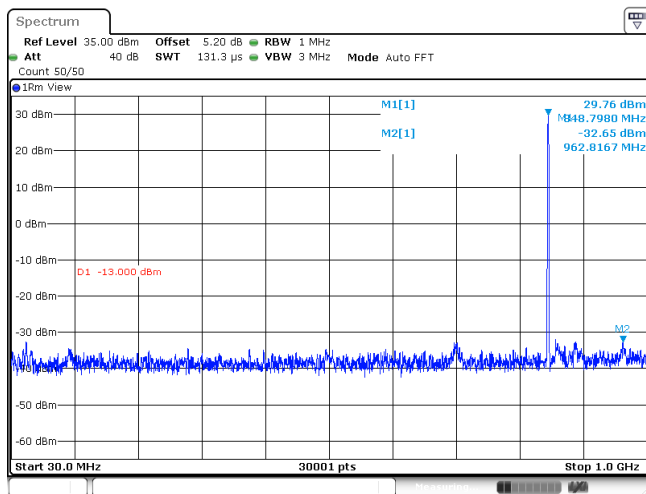
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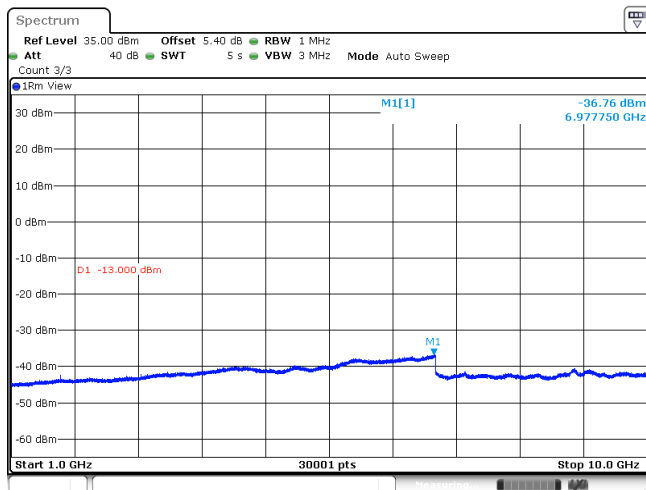
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EGPRS850-251-8-30~1000MHz-962.82



Date: 27.AUG.2020 09:09:10

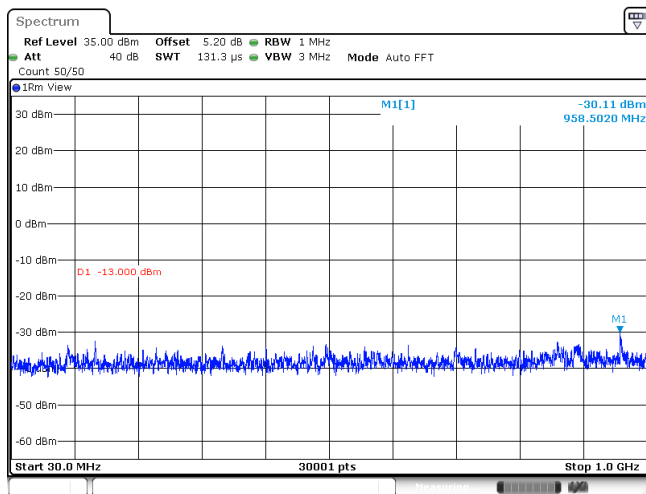
EGPRS850-251-8-1000~10000MHz-6977.75



Date: 27.AUG.2020 09:09:33

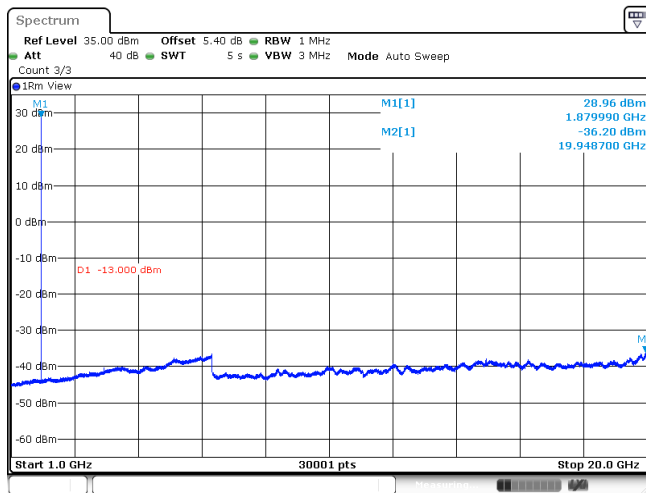


GSM1900-512-0-30~1000MHz-958.5



Date: 27.AUG.2020 11:30:13

GSM1900-512-0-1000~20000MHz-19948.7



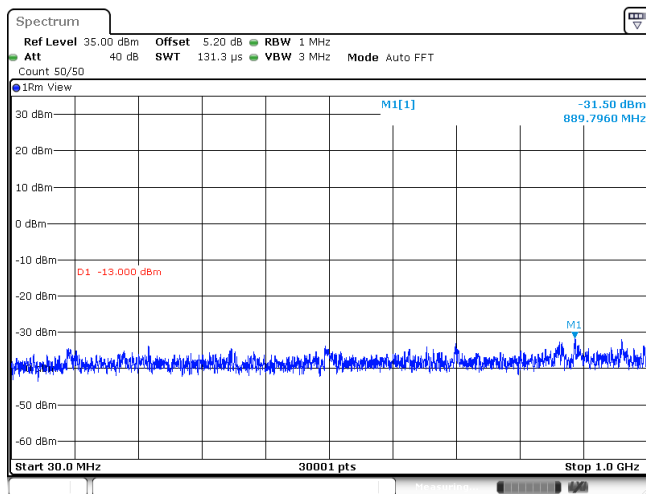
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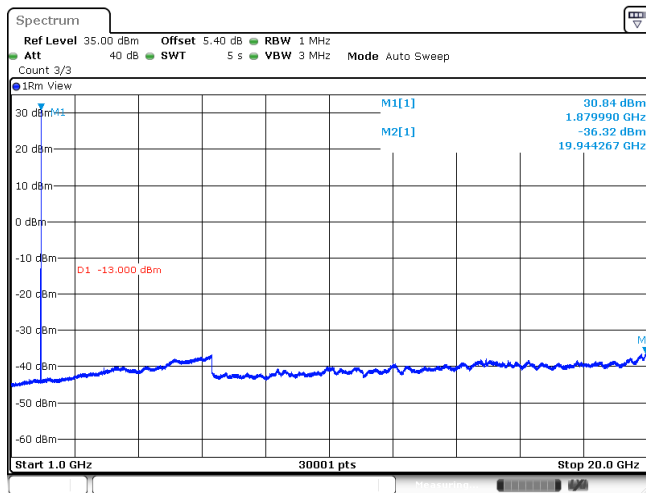
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GSM1900-661-0-30~1000MHz-889.8



Date: 27.AUG.2020 11:30:46

GSM1900-661-0-1000~20000MHz-19944.27



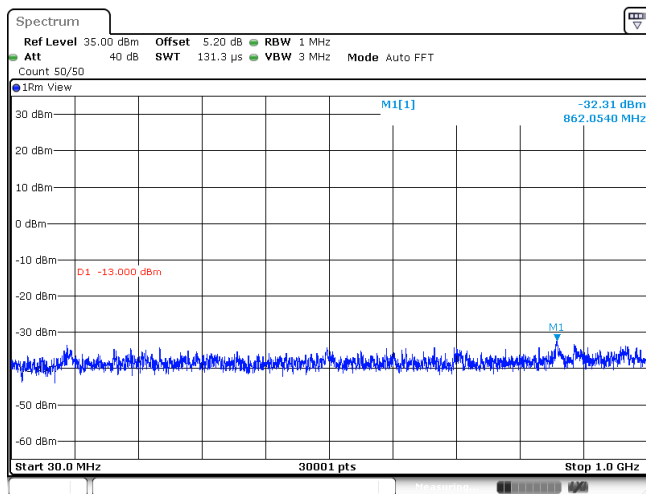
Date: 27.AUG.2020 11:31:09



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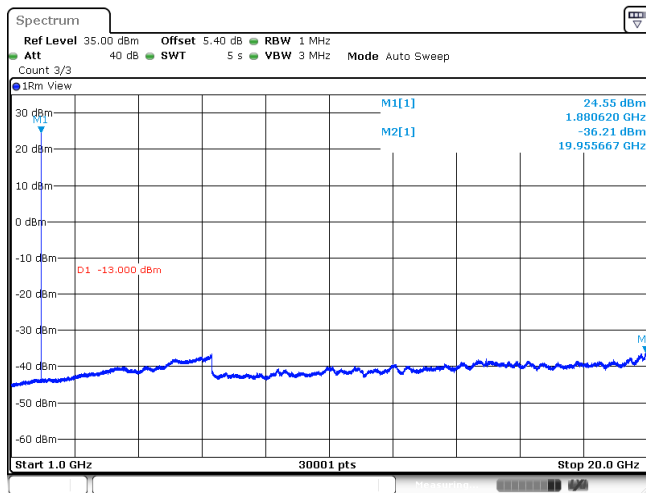
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GSM1900-810-0-30~1000MHz-862.05



Date: 27.AUG.2020 11:31:18

GSM1900-810-0-1000~20000MHz-19955.67



Date: 27.AUG.2020 11:31:42

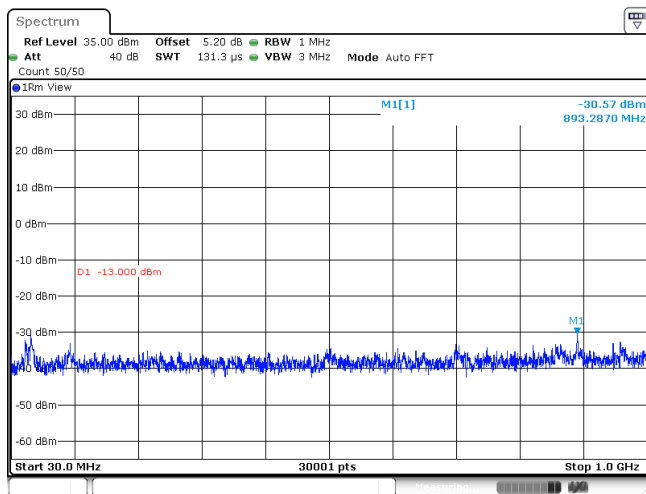


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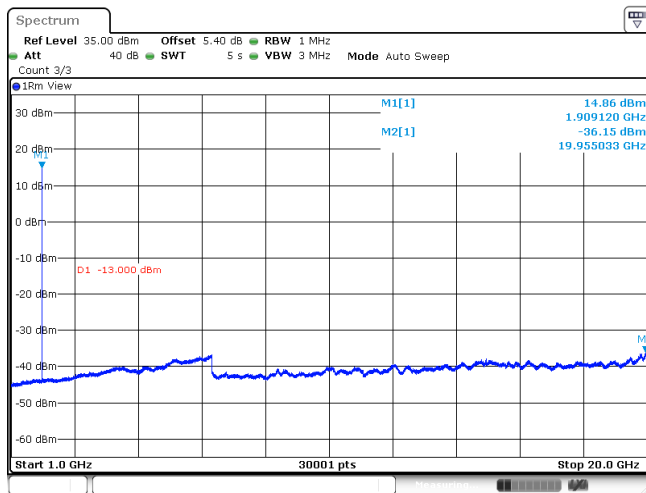
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EGPRS1900-512-2-30~1000MHz-893.29



Date: 27.AUG.2020 09:18:09

EGPRS1900-512-2-1000~20000MHz-19955.03



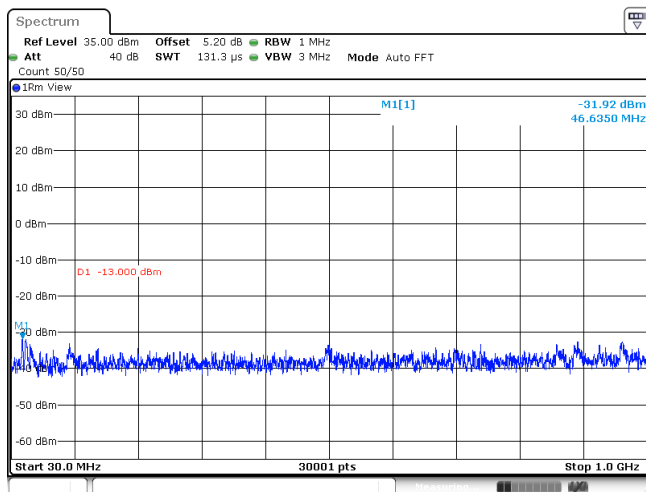
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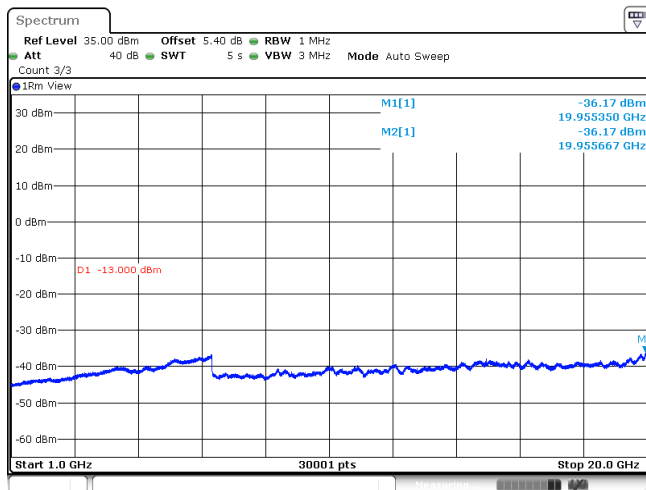
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EGPRS1900-661-2-30~1000MHz-46.64



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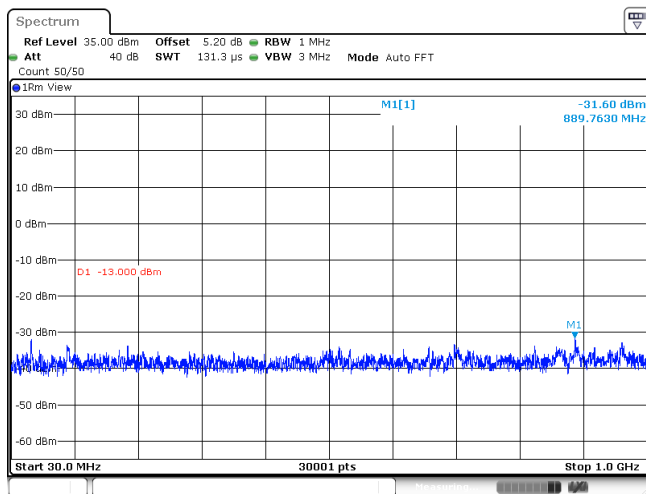
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Date: 27.AUG.2020 09:19:06

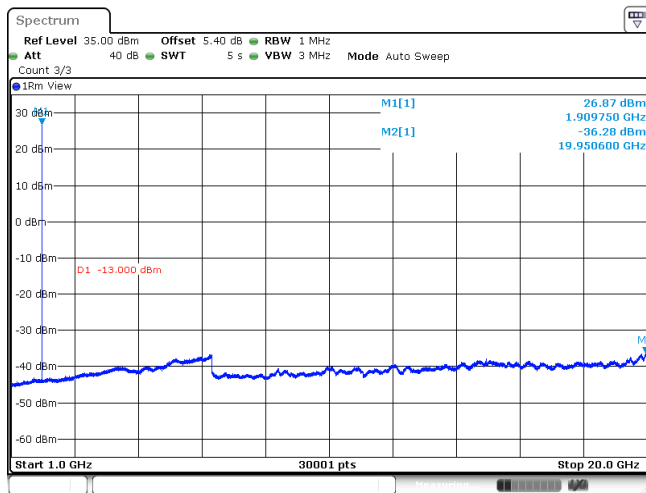


EGPRS1900-810-2-30~1000MHz-889.76



Date: 27.AUG.2020 09:19:19

EGPRS1900-810-2-1000~20000MHz-19950.6



Date: 27.AUG.2020 09:19:43



7. Field Strength of Spurious Radiation

7.1. Test Band = GSM 1900(Up Antenna)

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
47.5579	-69.55	-13.00	56.55	Vertical
111.4841	-64.69	-13.00	51.69	Vertical
610.0405	-63.77	-13.00	50.77	Vertical
2698.7397	-37.45	-13.00	24.45	Vertical
7351.1450	-55.47	-13.00	42.47	Vertical
17996.9999	-39.99	-13.00	26.99	Vertical
44.2112	-63.70	-13.00	50.70	Horizontal
234.2437	-67.13	-13.00	54.13	Horizontal
615.7638	-64.22	-13.00	51.22	Horizontal
2697.9396	-36.63	-13.00	23.63	Horizontal
7379.6460	-56.41	-13.00	43.41	Horizontal
16396.4465	-43.62	-13.00	30.62	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.2070	-70.20	-13.00	57.20	Vertical
109.9320	-64.84	-13.00	51.84	Vertical
669.6015	-63.47	-13.00	50.47	Vertical
2700.3401	-37.82	-13.00	24.82	Vertical
7339.1446	-55.57	-13.00	42.57	Vertical
17999.5000	-40.13	-13.00	27.13	Vertical
46.8303	-64.13	-13.00	51.13	Horizontal
235.0198	-68.31	-13.00	55.31	Horizontal
598.9334	-64.17	-13.00	51.17	Horizontal
2702.7405	-36.60	-13.00	23.60	Horizontal
7458.6486	-56.51	-13.00	43.51	Horizontal
16399.4466	-43.44	-13.00	30.44	Horizontal



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7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.1884	-70.27	-13.00	57.27	Vertical
109.5925	-64.95	-13.00	51.95	Vertical
593.3072	-64.19	-13.00	51.19	Vertical
2613.9228	-37.65	-13.00	24.65	Vertical
7380.6460	-56.31	-13.00	43.31	Vertical
17997.4999	-40.46	-13.00	27.46	Vertical
42.1741	-64.38	-13.00	51.38	Horizontal
234.1467	-67.60	-13.00	54.60	Horizontal
553.7777	-65.03	-13.00	52.03	Horizontal
2702.7405	-36.68	-13.00	23.68	Horizontal
7467.1489	-56.44	-13.00	43.44	Horizontal
16390.4463	-43.67	-13.00	30.67	Horizontal



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7.2. Test Band = GSM 1900(Down Antenna)

7.2.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.0615	-72.27	-13.00	59.27	Vertical
111.3386	-64.85	-13.00	51.85	Vertical
435.8683	-66.95	-13.00	53.95	Vertical
3700.5234	-61.58	-13.00	48.58	Vertical
7415.1472	-55.93	-13.00	42.93	Vertical
17990.4997	-40.46	-13.00	27.46	Vertical
43.7262	-64.29	-13.00	51.29	Horizontal
247.8244	-67.52	-13.00	54.52	Horizontal
727.3679	-62.09	-13.00	49.09	Horizontal
3700.5234	-58.82	-13.00	45.82	Horizontal
7462.6488	-56.13	-13.00	43.13	Horizontal
16399.4466	-44.31	-13.00	31.31	Horizontal

7.2.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
50.7590	-71.78	-13.00	58.78	Vertical
115.7038	-65.19	-13.00	52.19	Vertical
421.6086	-68.04	-13.00	55.04	Vertical
3760.0253	-60.46	-13.00	47.46	Vertical
5640.0880	-60.00	-13.00	47.00	Vertical
17991.9997	-40.62	-13.00	27.62	Vertical
41.8346	-64.01	-13.00	51.01	Horizontal
233.2737	-68.64	-13.00	55.64	Horizontal
596.6053	-63.97	-13.00	50.97	Horizontal
3760.0253	-55.49	-13.00	42.49	Horizontal
7456.6486	-56.78	-13.00	43.78	Horizontal
16393.9465	-43.90	-13.00	30.90	Horizontal



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7.2.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
50.1770	-71.89	-13.00	58.89	Vertical
115.8493	-64.88	-13.00	51.88	Vertical
445.7628	-66.98	-13.00	53.98	Vertical
3820.0273	-61.15	-13.00	48.15	Vertical
7352.1451	-56.18	-13.00	43.18	Vertical
17999.5000	-41.19	-13.00	28.19	Vertical
43.5322	-64.52	-13.00	51.52	Horizontal
98.4854	-75.84	-13.00	62.84	Horizontal
234.5347	-67.80	-13.00	54.80	Horizontal
3819.5273	-58.03	-13.00	45.03	Horizontal
7455.6485	-56.87	-13.00	43.87	Horizontal
16400.4467	-44.19	-13.00	31.19	Horizontal



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7.3. Test Band = GSM 850(Up Antenna)

7.3.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.3525	-69.69	-13.00	56.69	Vertical
112.7936	-64.44	-13.00	51.44	Vertical
1648.5297	-61.87	-13.00	48.87	Vertical
2994.7990	-55.99	-13.00	42.99	Vertical
3297.0432	-58.16	-13.00	45.16	Vertical
4120.9707	-59.73	-13.00	46.73	Vertical
46.4908	-63.87	-13.00	50.87	Horizontal
1648.5297	-51.80	-13.00	38.80	Horizontal
2472.6945	-52.67	-13.00	39.67	Horizontal
3296.8099	-41.71	-13.00	28.71	Horizontal
4121.2040	-54.15	-13.00	41.15	Horizontal
9295.3098	-52.55	-13.00	39.55	Horizontal

7.3.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.3339	-69.53	-13.00	56.53	Vertical
107.9919	-64.71	-13.00	51.71	Vertical
1673.3347	-59.28	-13.00	46.28	Vertical
3000.0000	-55.78	-13.00	42.78	Vertical
3346.7449	-59.65	-13.00	46.65	Vertical
9874.6958	-52.51	-13.00	39.51	Vertical
43.8717	-63.44	-13.00	50.44	Horizontal
232.0126	-66.28	-13.00	53.28	Horizontal
1672.9346	-54.22	-13.00	41.22	Horizontal
2509.9020	-52.10	-13.00	39.10	Horizontal
3345.8115	-46.67	-13.00	33.67	Horizontal
4182.8061	-58.66	-13.00	45.66	Horizontal



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7.3.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
47.9944	-69.83	-13.00	56.83	Vertical
116.4798	-63.58	-13.00	50.58	Vertical
1697.7395	-58.66	-13.00	45.66	Vertical
2546.3093	-53.05	-13.00	40.05	Vertical
5999.8333	-61.21	-13.00	48.21	Vertical
9891.7297	-51.73	-13.00	38.73	Vertical
45.2783	-63.08	-13.00	50.08	Horizontal
1697.3395	-52.33	-13.00	39.33	Horizontal
2546.3093	-51.41	-13.00	38.41	Horizontal
3395.2798	-48.86	-13.00	35.86	Horizontal
4243.9415	-60.01	-13.00	47.01	Horizontal
9325.1775	-52.07	-13.00	39.07	Horizontal





7.4. Test Band = GSM 850(Down Antenna)

7.4.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.2555	-71.94	-13.00	58.94	Vertical
108.0889	-64.23	-13.00	51.23	Vertical
291.7191	-68.30	-13.00	55.30	Vertical
1648.5297	-43.31	-13.00	30.31	Vertical
3296.8099	-57.81	-13.00	44.81	Vertical
9316.3105	-52.17	-13.00	39.17	Vertical
38.9729	-63.86	-13.00	50.86	Horizontal
107.7009	-74.62	-13.00	61.62	Horizontal
234.8257	-67.39	-13.00	54.39	Horizontal
1648.5297	-40.18	-13.00	27.18	Horizontal
3296.8099	-51.30	-13.00	38.30	Horizontal
9317.7106	-52.34	-13.00	39.34	Horizontal

7.4.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
113.1817	-65.08	-13.00	52.08	Vertical
598.2544	-62.82	-13.00	49.82	Vertical
1673.3347	-48.00	-13.00	35.00	Vertical
2510.7021	-50.31	-13.00	37.31	Vertical
3346.2782	-60.83	-13.00	47.83	Vertical
7993.0331	-55.95	-13.00	42.95	Vertical
40.0885	-64.34	-13.00	51.34	Horizontal
235.7958	-67.35	-13.00	54.35	Horizontal
1672.9346	-40.99	-13.00	27.99	Horizontal
2509.9020	-41.46	-13.00	28.46	Horizontal
3346.5116	-52.53	-13.00	39.53	Horizontal
9352.9451	-52.67	-13.00	39.67	Horizontal



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7.4.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
108.5254	-64.67	-13.00	51.67	Vertical
477.7744	-65.95	-13.00	52.95	Vertical
1697.7395	-53.54	-13.00	40.54	Vertical
2547.1094	-44.31	-13.00	31.31	Vertical
6991.2997	-58.42	-13.00	45.42	Vertical
9842.7281	-52.30	-13.00	39.30	Vertical
42.5136	-64.35	-13.00	51.35	Horizontal
251.1711	-67.98	-13.00	54.98	Horizontal
1697.3395	-42.81	-13.00	29.81	Horizontal
2546.7093	-43.73	-13.00	30.73	Horizontal
3395.5132	-57.71	-13.00	44.71	Horizontal
9327.5109	-52.98	-13.00	39.98	Horizontal

Remark:

- 1) According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2) The disturbance above 12.75GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.





Frequency Stability

7.5. Frequency Error Vs Voltage

Band	Channel	PCL	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
			Voltage [Vdc]	Temperature (°C)				
GSM850	128	3	VL	NT	0.23	0.000279	±2.5	PASS
GSM850	128	3	VN	NT	6.36	0.007717	±2.5	PASS
GSM850	128	3	VH	NT	5.78	0.007013	±2.5	PASS
GSM850	190	3	VL	NT	9.14	0.010925	±2.5	PASS
GSM850	190	3	VN	NT	7.01	0.008379	±2.5	PASS
GSM850	190	3	VH	NT	-0.48	-0.000574	±2.5	PASS
GSM850	251	3	VL	NT	-4.07	-0.004795	±2.5	PASS
GSM850	251	3	VN	NT	-0.39	-0.000459	±2.5	PASS
GSM850	251	3	VH	NT	2.74	0.003228	±2.5	PASS
EGPRS850	128	8	VL	NT	28.64	0.034749	±2.5	PASS
EGPRS850	128	8	VN	NT	29.22	0.035453	±2.5	PASS
EGPRS850	128	8	VH	NT	31.09	0.037721	±2.5	PASS
EGPRS850	190	8	VL	NT	30.70	0.036696	±2.5	PASS
EGPRS850	190	8	VN	NT	32.45	0.038788	±2.5	PASS
EGPRS850	190	8	VH	NT	32.71	0.039099	±2.5	PASS
EGPRS850	251	8	VL	NT	22.99	0.027085	±2.5	PASS
EGPRS850	251	8	VN	NT	27.38	0.032257	±2.5	PASS
EGPRS850	251	8	VH	NT	25.18	0.029665	±2.5	PASS
GSM1900	512	0	VL	NT	5.00	0.002702	±2.5	PASS
GSM1900	512	0	VN	NT	5.75	0.003108	±2.5	PASS
GSM1900	512	0	VH	NT	3.00	0.001621	±2.5	PASS
GSM1900	661	0	VL	NT	10.14	0.005394	±2.5	PASS
GSM1900	661	0	VN	NT	4.97	0.002644	±2.5	PASS
GSM1900	661	0	VH	NT	-2.29	-0.001218	±2.5	PASS
GSM1900	810	0	VL	NT	-0.10	-0.000052	±2.5	PASS
GSM1900	810	0	VN	NT	9.01	0.004718	±2.5	PASS
GSM1900	810	0	VH	NT	2.00	0.001047	±2.5	PASS
EGPRS1900	512	2	VL	NT	25.54	0.013804	±2.5	PASS
EGPRS1900	512	2	VN	NT	26.09	0.014101	±2.5	PASS
EGPRS1900	512	2	VH	NT	26.86	0.014517	±2.5	PASS
EGPRS1900	661	2	VL	NT	29.22	0.015543	±2.5	PASS



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EGPRS1900	661	2	VN	NT	25.47	0.013548	±2.5	PASS
EGPRS1900	661	2	VH	NT	23.79	0.012654	±2.5	PASS
EGPRS1900	810	2	VL	NT	27.51	0.014405	±2.5	PASS
EGPRS1900	810	2	VN	NT	25.70	0.013457	±2.5	PASS
EGPRS1900	810	2	VH	NT	23.86	0.012493	±2.5	PASS

7.6. Frequency Error Vs Temperature

Temperature								
Band	Channel	PCL	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	3	NV	-30	0.48	0.000582	±2.5	PASS
GSM850	128	3	NV	-20	1.29	0.001565	±2.5	PASS
GSM850	128	3	NV	-10	-5.39	-0.006540	±2.5	PASS
GSM850	128	3	NV	0	6.88	0.008347	±2.5	PASS
GSM850	128	3	NV	10	-3.84	-0.004659	±2.5	PASS
GSM850	128	3	NV	20	8.94	0.010847	±2.5	PASS
GSM850	128	3	NV	30	6.68	0.008105	±2.5	PASS
GSM850	128	3	NV	40	5.20	0.006309	±2.5	PASS
GSM850	128	3	NV	50	1.49	0.001808	±2.5	PASS
GSM850	190	3	NV	-30	13.01	0.015551	±2.5	PASS
GSM850	190	3	NV	-20	-0.58	-0.000693	±2.5	PASS
GSM850	190	3	NV	-10	14.40	0.017213	±2.5	PASS
GSM850	190	3	NV	0	4.49	0.005367	±2.5	PASS
GSM850	190	3	NV	10	4.91	0.005869	±2.5	PASS
GSM850	190	3	NV	20	15.14	0.018097	±2.5	PASS
GSM850	190	3	NV	30	5.49	0.006562	±2.5	PASS
GSM850	190	3	NV	40	9.30	0.011116	±2.5	PASS
GSM850	190	3	NV	50	8.78	0.010495	±2.5	PASS
GSM850	251	3	NV	-30	-2.94	-0.003464	±2.5	PASS
GSM850	251	3	NV	-20	-5.17	-0.006091	±2.5	PASS
GSM850	251	3	NV	-10	-1.71	-0.002015	±2.5	PASS
GSM850	251	3	NV	0	-2.84	-0.003346	±2.5	PASS
GSM850	251	3	NV	10	-2.45	-0.002886	±2.5	PASS
GSM850	251	3	NV	20	3.91	0.004607	±2.5	PASS
GSM850	251	3	NV	30	3.68	0.004336	±2.5	PASS
GSM850	251	3	NV	40	-0.45	-0.000530	±2.5	PASS
GSM850	251	3	NV	50	2.58	0.003040	±2.5	PASS



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EGPRS850	128	8	NV	-30	27.12	0.032905	±2.5	PASS
EGPRS850	128	8	NV	-20	19.53	0.023696	±2.5	PASS
EGPRS850	128	8	NV	-10	24.12	0.029265	±2.5	PASS
EGPRS850	128	8	NV	0	24.18	0.029338	±2.5	PASS
EGPRS850	128	8	NV	10	26.96	0.032711	±2.5	PASS
EGPRS850	128	8	NV	20	21.31	0.025855	±2.5	PASS
EGPRS850	128	8	NV	30	26.86	0.032589	±2.5	PASS
EGPRS850	128	8	NV	40	24.60	0.029847	±2.5	PASS
EGPRS850	128	8	NV	50	25.34	0.030745	±2.5	PASS
EGPRS850	190	8	NV	-30	35.06	0.041908	±2.5	PASS
EGPRS850	190	8	NV	-20	29.86	0.035692	±2.5	PASS
EGPRS850	190	8	NV	-10	30.19	0.036087	±2.5	PASS
EGPRS850	190	8	NV	0	34.68	0.041454	±2.5	PASS
EGPRS850	190	8	NV	10	29.64	0.035429	±2.5	PASS
EGPRS850	190	8	NV	20	28.51	0.034078	±2.5	PASS
EGPRS850	190	8	NV	30	30.41	0.036350	±2.5	PASS
EGPRS850	190	8	NV	40	26.64	0.031843	±2.5	PASS
EGPRS850	190	8	NV	50	30.70	0.036696	±2.5	PASS
EGPRS850	251	8	NV	-30	24.12	0.028417	±2.5	PASS
EGPRS850	251	8	NV	-20	24.41	0.028758	±2.5	PASS
EGPRS850	251	8	NV	-10	25.34	0.029854	±2.5	PASS
EGPRS850	251	8	NV	0	25.93	0.030549	±2.5	PASS
EGPRS850	251	8	NV	10	26.02	0.030655	±2.5	PASS
EGPRS850	251	8	NV	20	25.60	0.030160	±2.5	PASS
EGPRS850	251	8	NV	30	25.93	0.030549	±2.5	PASS
EGPRS850	251	8	NV	40	22.31	0.026284	±2.5	PASS
EGPRS850	251	8	NV	50	27.44	0.032328	±2.5	PASS
GSM1900	512	0	NV	-30	3.23	0.001746	±2.5	PASS
GSM1900	512	0	NV	-20	0.77	0.000416	±2.5	PASS
GSM1900	512	0	NV	-10	6.23	0.003367	±2.5	PASS
GSM1900	512	0	NV	0	2.39	0.001292	±2.5	PASS
GSM1900	512	0	NV	10	12.72	0.006875	±2.5	PASS
GSM1900	512	0	NV	20	7.49	0.004048	±2.5	PASS
GSM1900	512	0	NV	30	11.85	0.006405	±2.5	PASS
GSM1900	512	0	NV	40	5.59	0.003021	±2.5	PASS
GSM1900	512	0	NV	50	11.14	0.006021	±2.5	PASS
GSM1900	661	0	NV	-30	3.87	0.002059	±2.5	PASS



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GSM1900	661	0	NV	-20	4.20	0.002234	±2.5	PASS
GSM1900	661	0	NV	-10	-0.06	-0.000032	±2.5	PASS
GSM1900	661	0	NV	0	9.23	0.004910	±2.5	PASS
GSM1900	661	0	NV	10	2.58	0.001372	±2.5	PASS
GSM1900	661	0	NV	20	5.84	0.003106	±2.5	PASS
GSM1900	661	0	NV	30	6.30	0.003351	±2.5	PASS
GSM1900	661	0	NV	40	4.10	0.002181	±2.5	PASS
GSM1900	661	0	NV	50	8.75	0.004654	±2.5	PASS
GSM1900	810	0	NV	-30	-0.10	-0.000052	±2.5	PASS
GSM1900	810	0	NV	-20	0.58	0.000304	±2.5	PASS
GSM1900	810	0	NV	-10	3.55	0.001859	±2.5	PASS
GSM1900	810	0	NV	0	2.29	0.001199	±2.5	PASS
GSM1900	810	0	NV	10	1.87	0.000979	±2.5	PASS
GSM1900	810	0	NV	20	0.71	0.000372	±2.5	PASS
GSM1900	810	0	NV	30	2.39	0.001251	±2.5	PASS
GSM1900	810	0	NV	40	4.26	0.002231	±2.5	PASS
GSM1900	810	0	NV	50	6.07	0.003178	±2.5	PASS
EGPRS1900	512	2	NV	-30	26.64	0.014398	±2.5	PASS
EGPRS1900	512	2	NV	-20	26.28	0.014204	±2.5	PASS
EGPRS1900	512	2	NV	-10	27.93	0.015096	±2.5	PASS
EGPRS1900	512	2	NV	0	28.28	0.015285	±2.5	PASS
EGPRS1900	512	2	NV	10	28.77	0.015550	±2.5	PASS
EGPRS1900	512	2	NV	20	25.57	0.013820	±2.5	PASS
EGPRS1900	512	2	NV	30	24.15	0.013053	±2.5	PASS
EGPRS1900	512	2	NV	40	25.05	0.013539	±2.5	PASS
EGPRS1900	512	2	NV	50	28.15	0.015215	±2.5	PASS
EGPRS1900	661	2	NV	-30	21.28	0.011319	±2.5	PASS
EGPRS1900	661	2	NV	-20	31.67	0.016846	±2.5	PASS
EGPRS1900	661	2	NV	-10	31.38	0.016691	±2.5	PASS
EGPRS1900	661	2	NV	0	27.64	0.014702	±2.5	PASS
EGPRS1900	661	2	NV	10	29.44	0.015660	±2.5	PASS
EGPRS1900	661	2	NV	20	27.41	0.014580	±2.5	PASS
EGPRS1900	661	2	NV	30	31.64	0.016830	±2.5	PASS
EGPRS1900	661	2	NV	40	30.38	0.016160	±2.5	PASS
EGPRS1900	661	2	NV	50	29.15	0.015505	±2.5	PASS
EGPRS1900	810	2	NV	-30	23.60	0.012357	±2.5	PASS
EGPRS1900	810	2	NV	-20	25.05	0.013117	±2.5	PASS



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EGPRS1900	810	2	NV	-10	27.15	0.014216	±2.5	PASS
EGPRS1900	810	2	NV	0	28.31	0.014824	±2.5	PASS
EGPRS1900	810	2	NV	10	25.80	0.013509	±2.5	PASS
EGPRS1900	810	2	NV	20	27.57	0.014436	±2.5	PASS
EGPRS1900	810	2	NV	30	22.70	0.011886	±2.5	PASS
EGPRS1900	810	2	NV	40	25.31	0.013253	±2.5	PASS
EGPRS1900	810	2	NV	50	26.25	0.013745	±2.5	PASS

The End

