

Appendix B

GSM 850 & 1900



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1. Effective (Isotropic) Radiated Power Output Data

1.1. Test Result

ANT10:

Band	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	33.06	26.11	38.45	PASS
GSM850	190	---	33.04	26.09	38.45	PASS
GSM850	251	---	33.07	26.12	38.45	PASS
EGPRS850	128	1	27.20	20.25	38.45	PASS
EGPRS850	128	2	24.16	17.21	38.45	PASS
EGPRS850	128	3	22.27	15.32	38.45	PASS
EGPRS850	128	4	20.84	13.89	38.45	PASS
EGPRS850	190	1	27.27	20.32	38.45	PASS
EGPRS850	190	2	24.30	17.35	38.45	PASS
EGPRS850	190	3	22.39	15.44	38.45	PASS
EGPRS850	190	4	21.02	14.07	38.45	PASS
EGPRS850	251	1	27.17	20.22	38.45	PASS
EGPRS850	251	2	24.20	17.25	38.45	PASS
EGPRS850	251	3	22.34	15.39	38.45	PASS
EGPRS850	251	4	21.01	14.06	38.45	PASS

ANT2:

Band	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	33.30	23.55	38.45	PASS
GSM850	190	---	33.21	23.46	38.45	PASS
GSM850	251	---	33.31	23.56	38.45	PASS
EGPRS850	128	1	27.48	17.73	38.45	PASS
EGPRS850	128	2	24.43	14.68	38.45	PASS
EGPRS850	128	3	22.60	12.85	38.45	PASS
EGPRS850	128	4	21.14	11.39	38.45	PASS
EGPRS850	190	1	27.60	17.85	38.45	PASS
EGPRS850	190	2	24.53	14.78	38.45	PASS
EGPRS850	190	3	22.68	12.93	38.45	PASS
EGPRS850	190	4	21.38	11.63	38.45	PASS
EGPRS850	251	1	27.41	17.66	38.45	PASS
EGPRS850	251	2	24.45	14.7	38.45	PASS
EGPRS850	251	3	22.59	12.84	38.45	PASS
EGPRS850	251	4	21.35	11.6	38.45	PASS



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ANT4:

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	30.30	28	33.00	PASS
GSM1900	661	---	30.18	27.88	33.00	PASS
GSM1900	810	---	30.15	27.85	33.00	PASS
EGPRS1900	512	1	26.20	23.9	33.00	PASS
EGPRS1900	512	2	23.21	20.91	33.00	PASS
EGPRS1900	512	3	21.30	19	33.00	PASS
EGPRS1900	512	4	20.09	17.79	33.00	PASS
EGPRS1900	661	1	26.27	23.97	33.00	PASS
EGPRS1900	661	2	23.29	20.99	33.00	PASS
EGPRS1900	661	3	21.47	19.17	33.00	PASS
EGPRS1900	661	4	20.06	17.76	33.00	PASS
EGPRS1900	810	1	26.05	23.75	33.00	PASS
EGPRS1900	810	2	23.03	20.73	33.00	PASS
EGPRS1900	810	3	21.41	19.11	33.00	PASS
EGPRS1900	810	4	19.91	17.61	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 [dBd]

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



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2. Peak-to-Average Ratio

2.1. Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	9.86	13	PASS
GSM850	190	9.04	13	PASS
GSM850	251	9.01	13	PASS
EGPRS850	128	12.58	13	PASS
EGPRS850	190	12.81	13	PASS
EGPRS850	251	12.06	13	PASS
GSM1900	512	9.22	13	PASS
GSM1900	661	10.12	13	PASS
GSM1900	810	9.3	13	PASS
EGPRS1900	512	11.91	13	PASS
EGPRS1900	661	12.52	13	PASS
EGPRS1900	810	12.84	13	PASS



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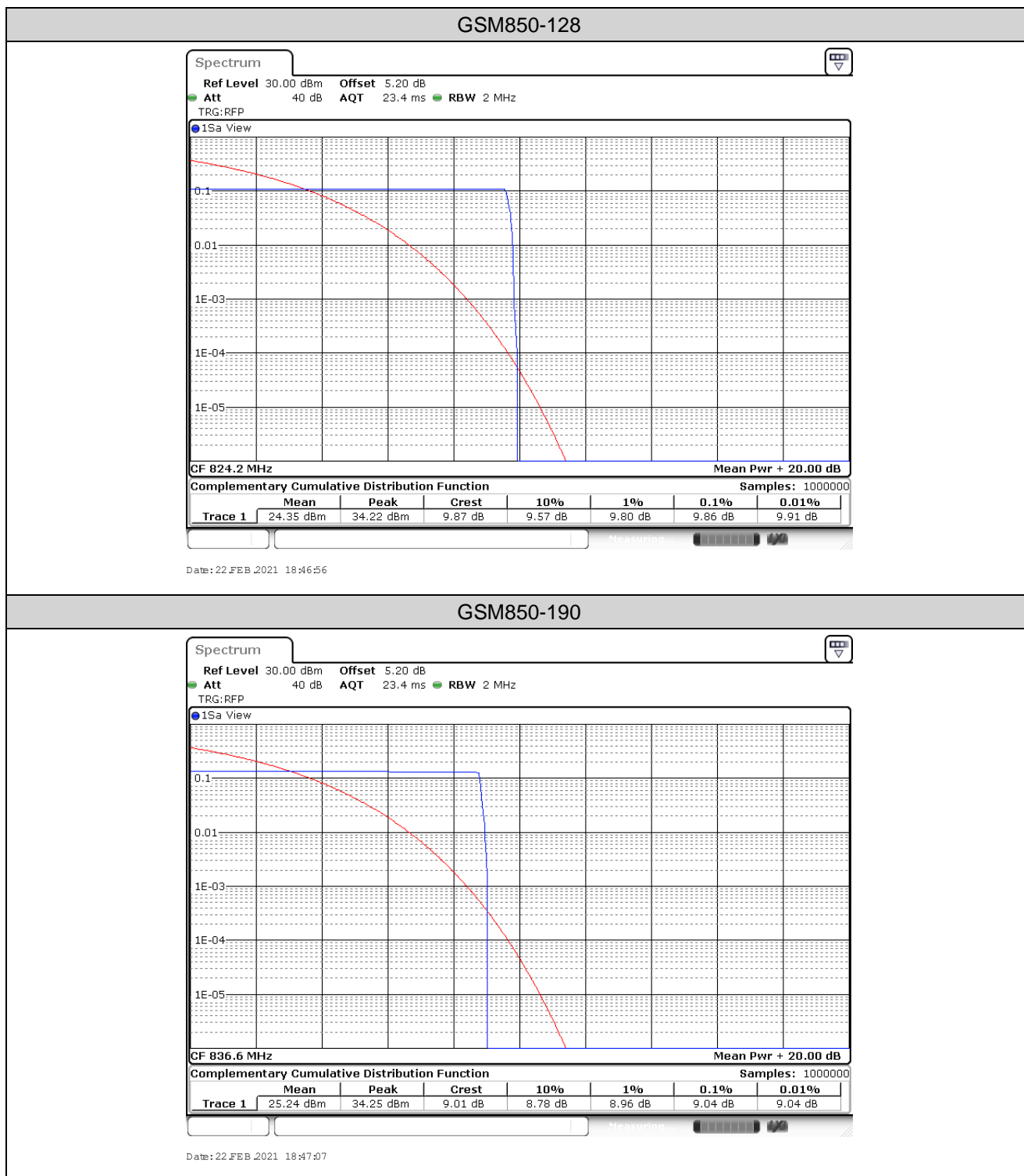
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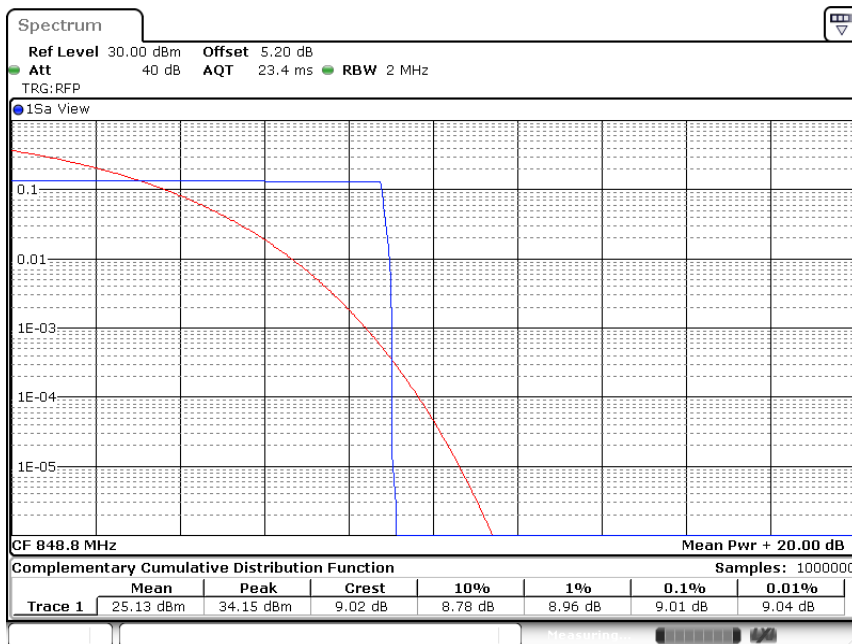
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2.2.Part II - Test Plots

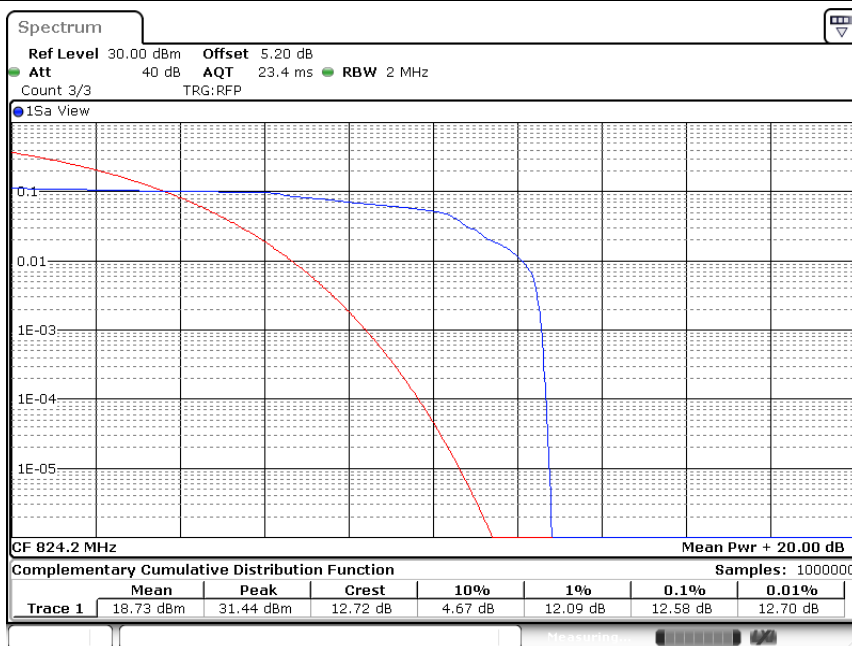


GSM850-251



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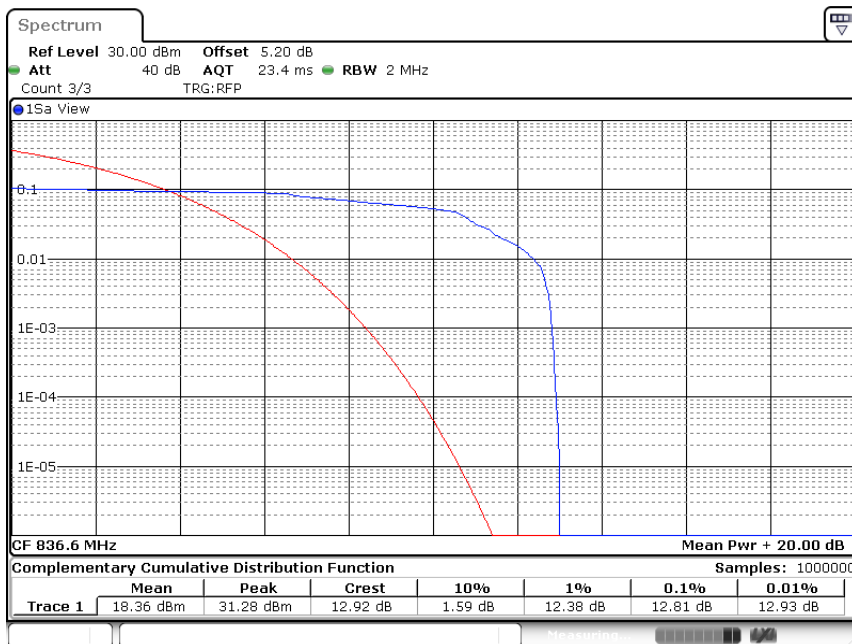
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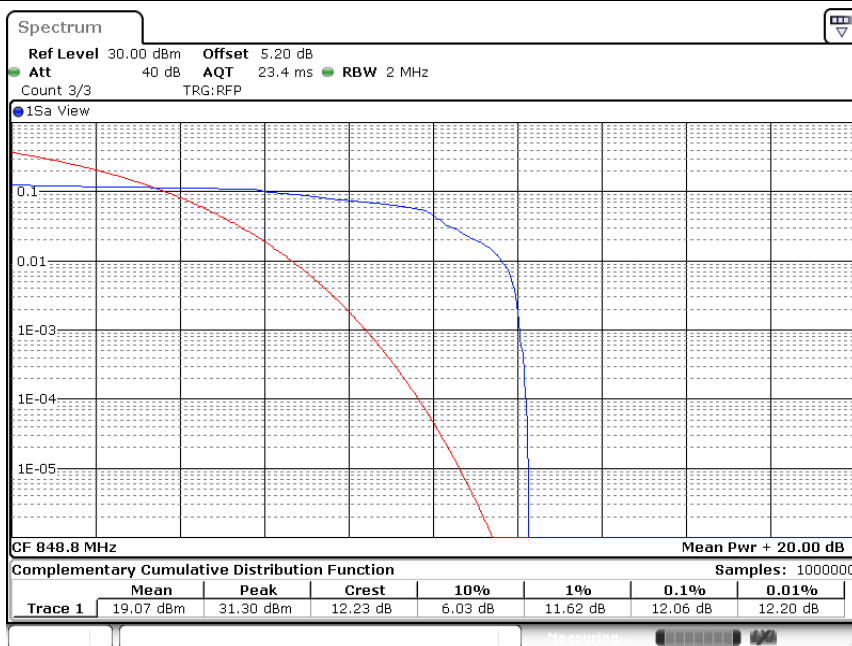


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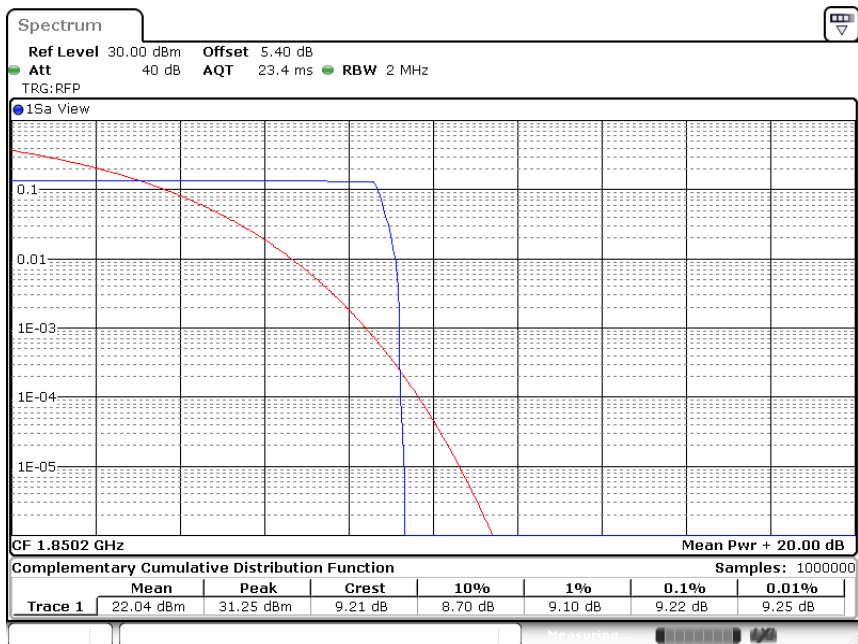
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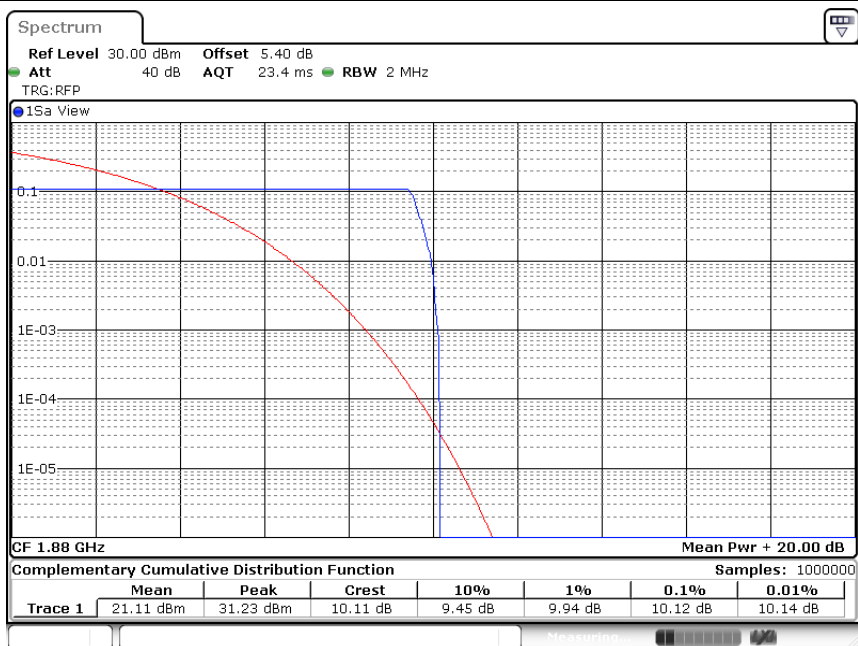


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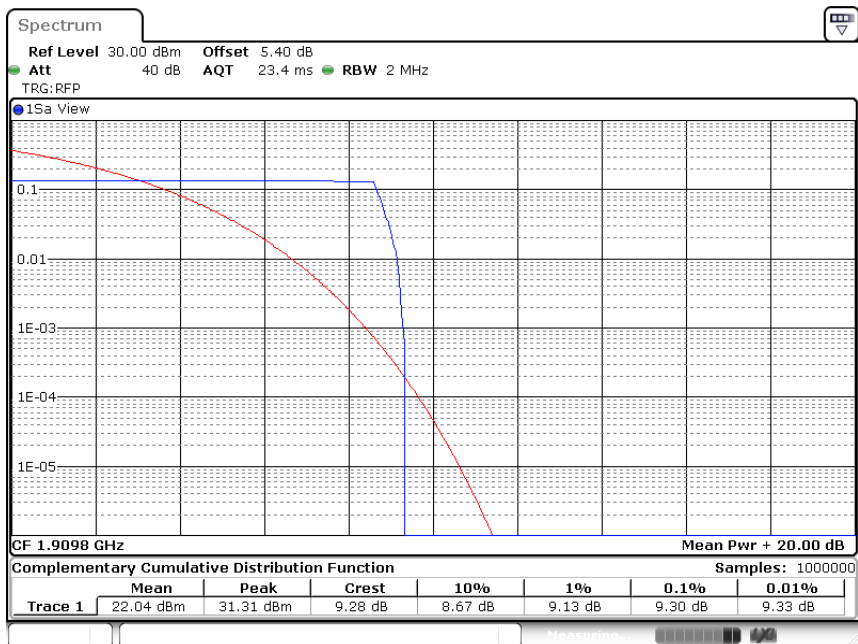
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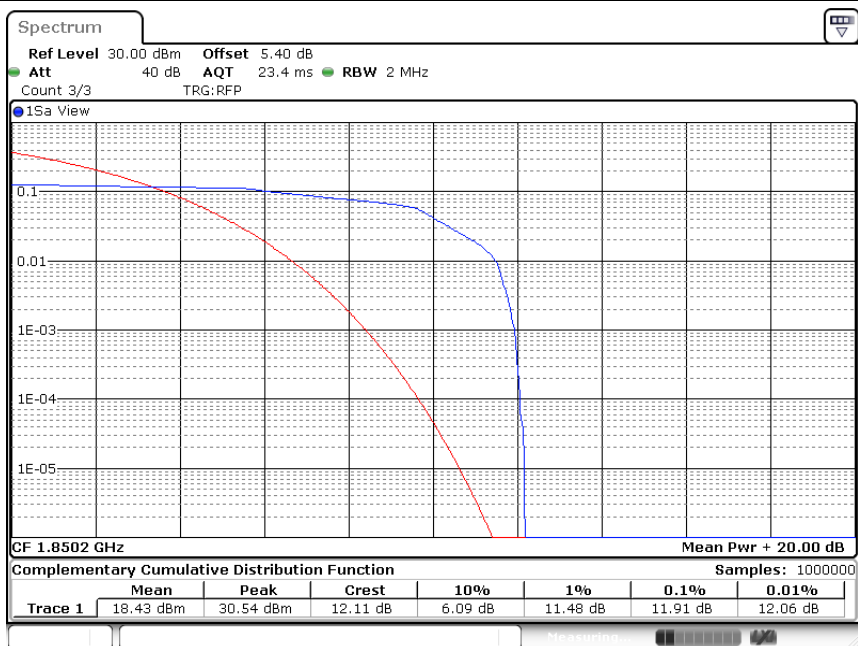


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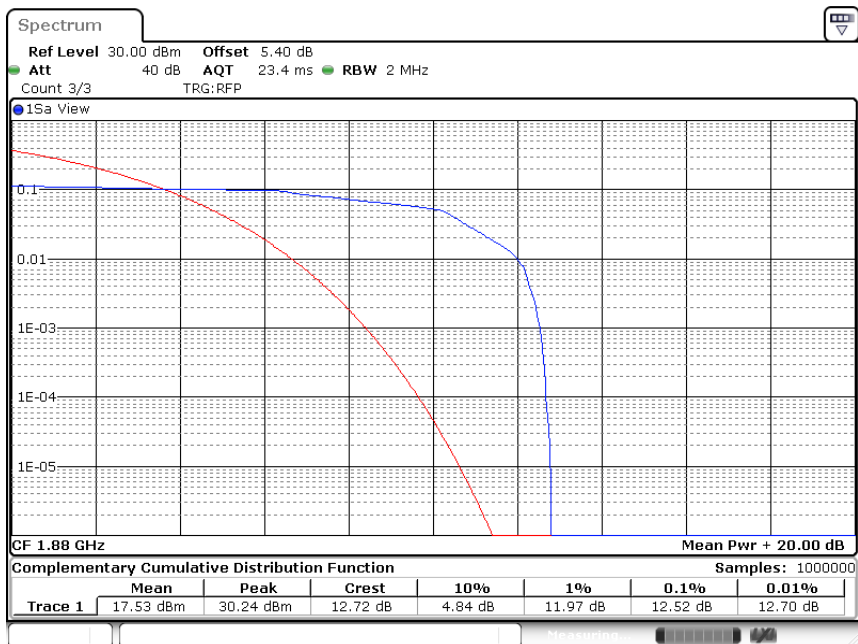
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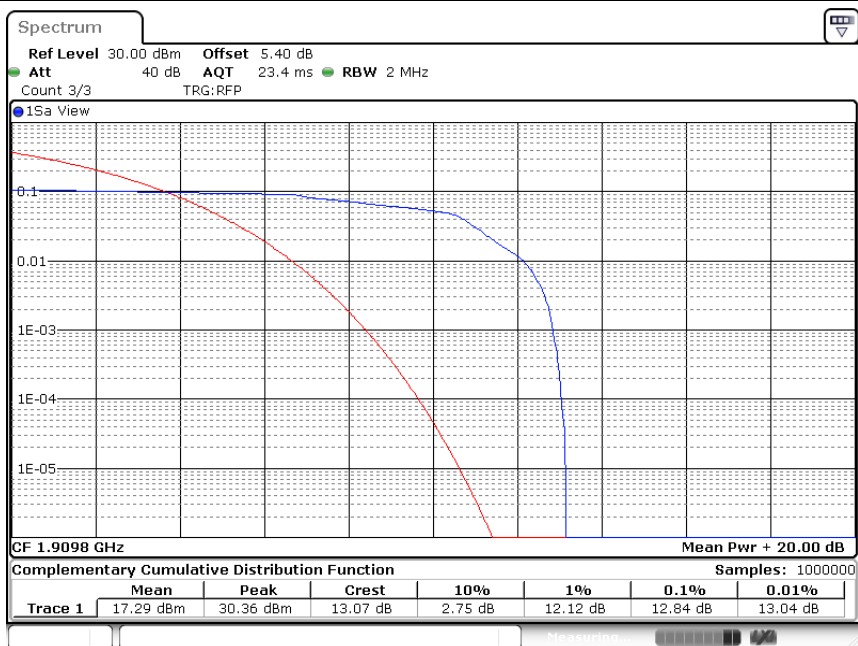


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EGPRS1900-810



Date: 22 FEB 2021 19:15:33





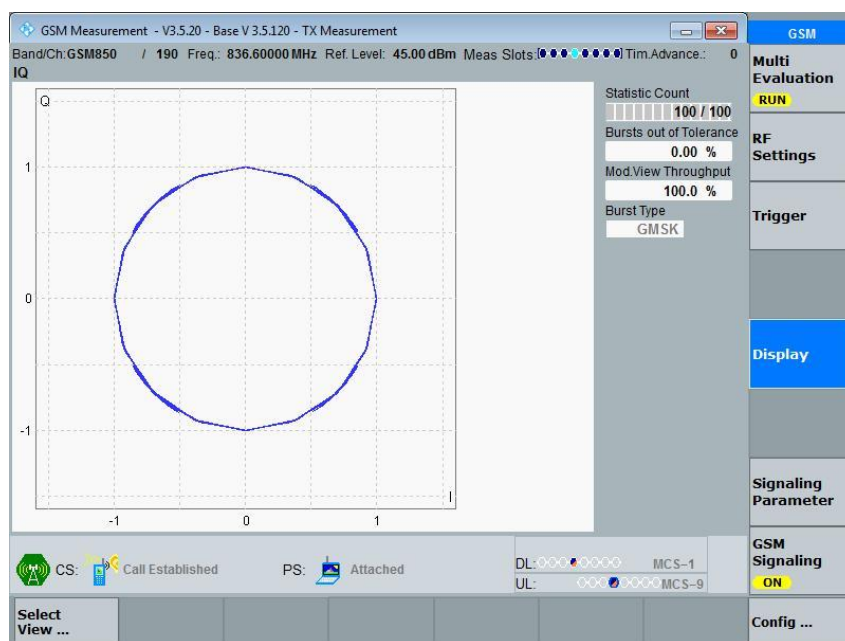
3. Modulation Characteristics

3.1. For GSM

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3.1.1.1. Test Mode = GSM/TM1

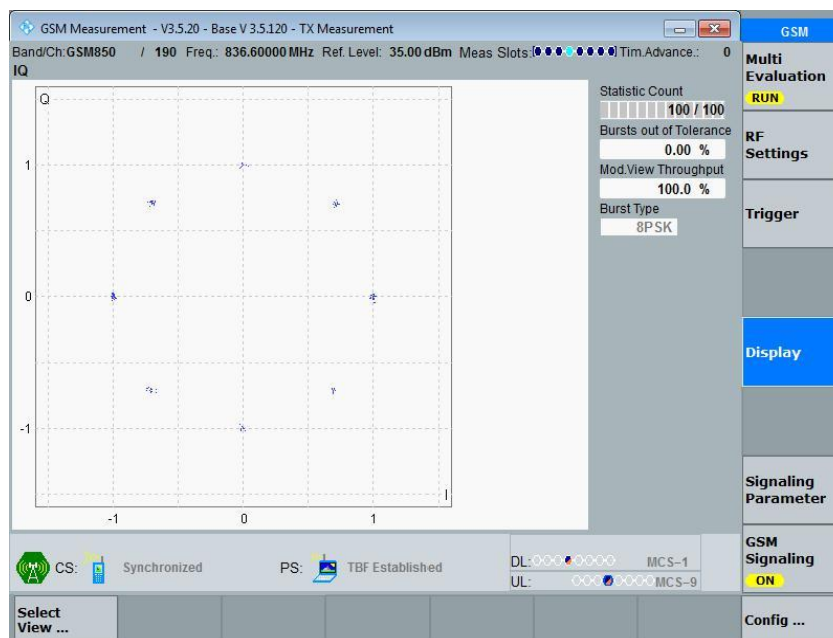
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3.1.1.2. Test Mode = GSM/TM2

3.1.1.2.1. Test Channel = MCH

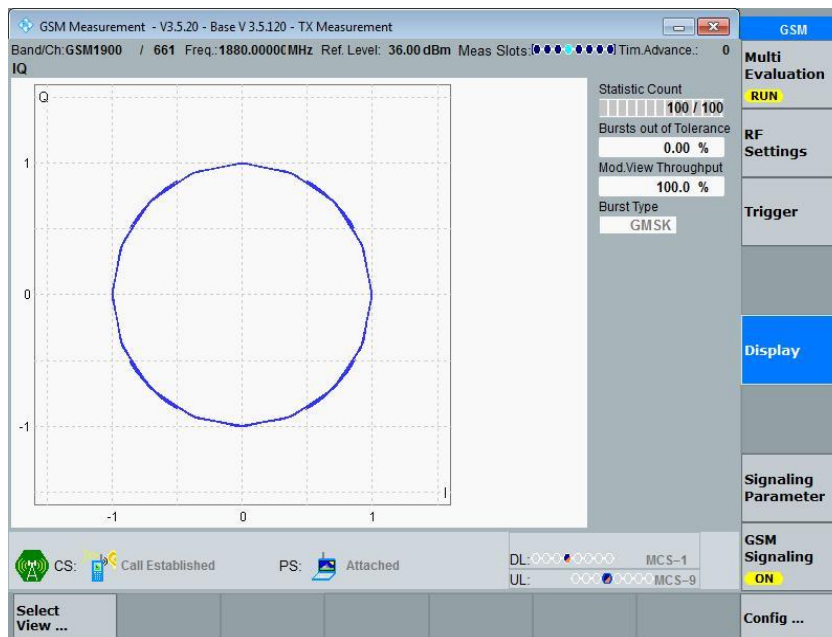




3.1.2. Test Band = GSM 1900

3.1.2.1. Test Mode = GSM/TM1

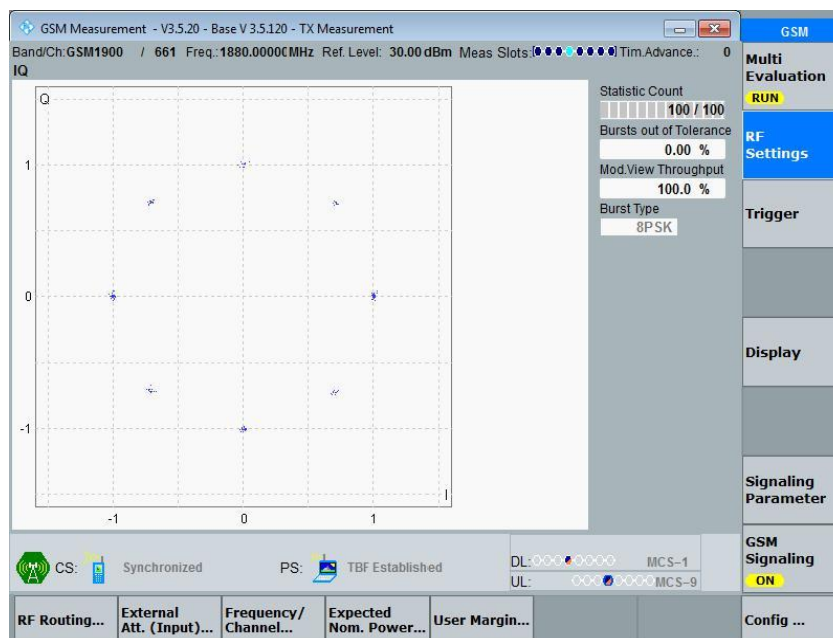
3.1.2.1.1. Test Channel = MCH





3.1.2.2. Test Mode = GSM/TM2

3.1.2.2.1. Test Channel = MCH



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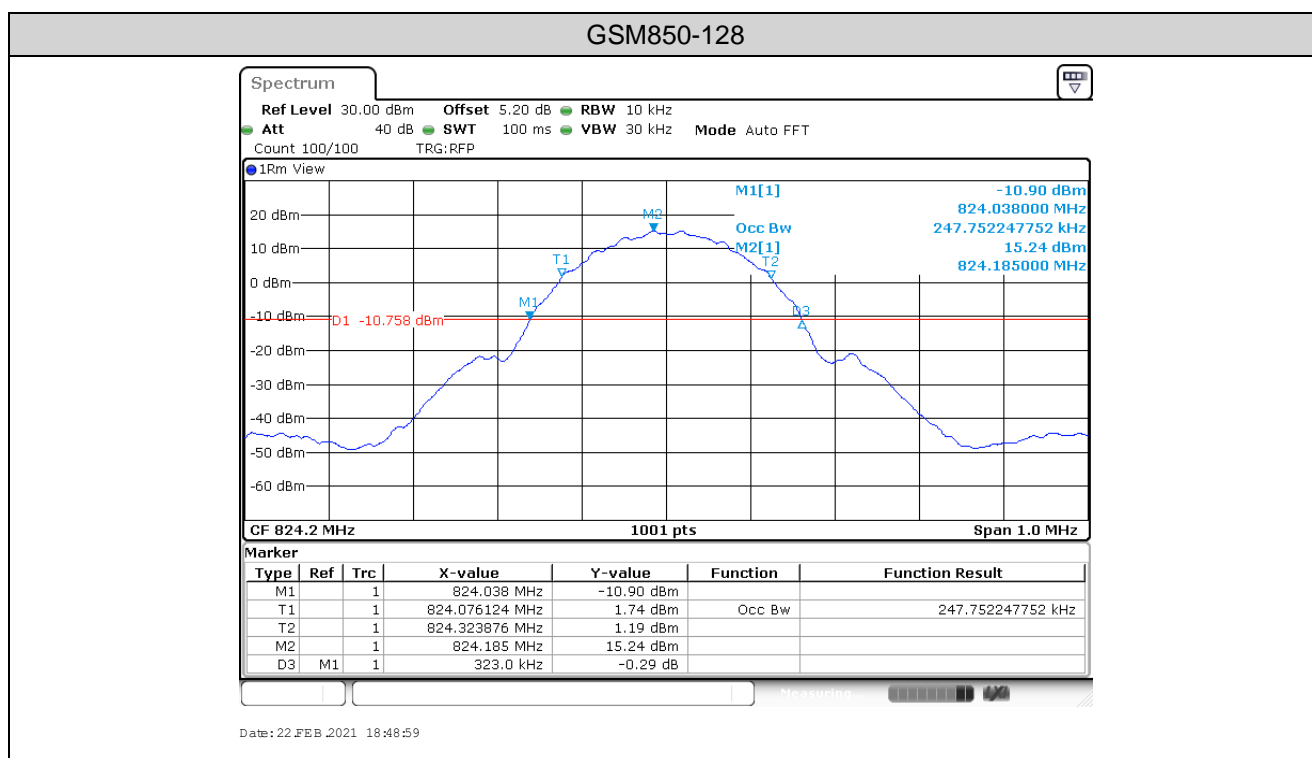


4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.248	0.323	---	PASS
GSM850	190	0.248	0.323	---	PASS
GSM850	251	0.248	0.324	---	PASS
EGPRS850	128	0.244	0.315	---	PASS
EGPRS850	190	0.245	0.317	---	PASS
EGPRS850	251	0.244	0.316	---	PASS
GSM1900	512	0.246	0.321	---	PASS
GSM1900	661	0.247	0.322	---	PASS
GSM1900	810	0.246	0.323	---	PASS
EGPRS1900	512	0.243	0.317	---	PASS
EGPRS1900	661	0.243	0.316	---	PASS
EGPRS1900	810	0.244	0.316	---	PASS

4.2. Test Plots

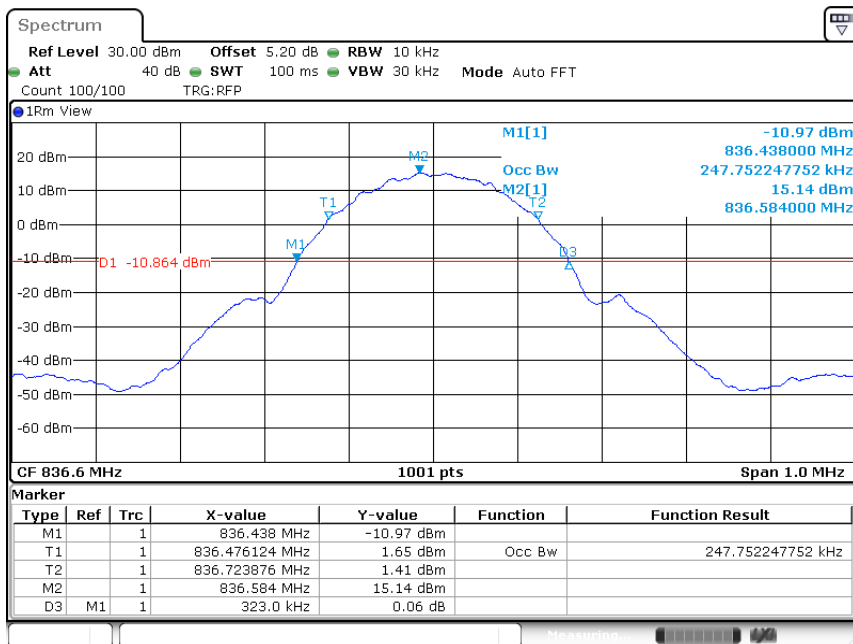


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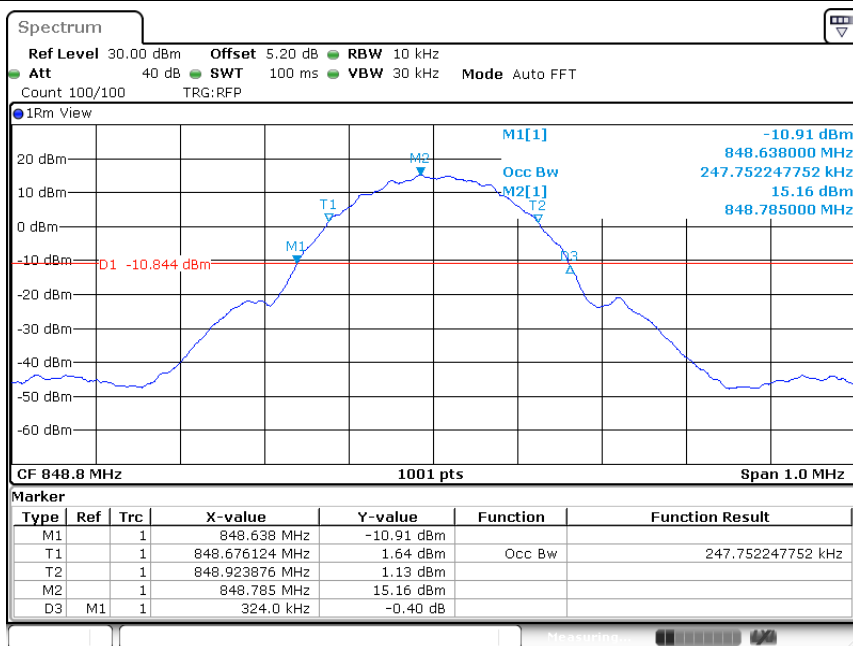
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GSM850-190



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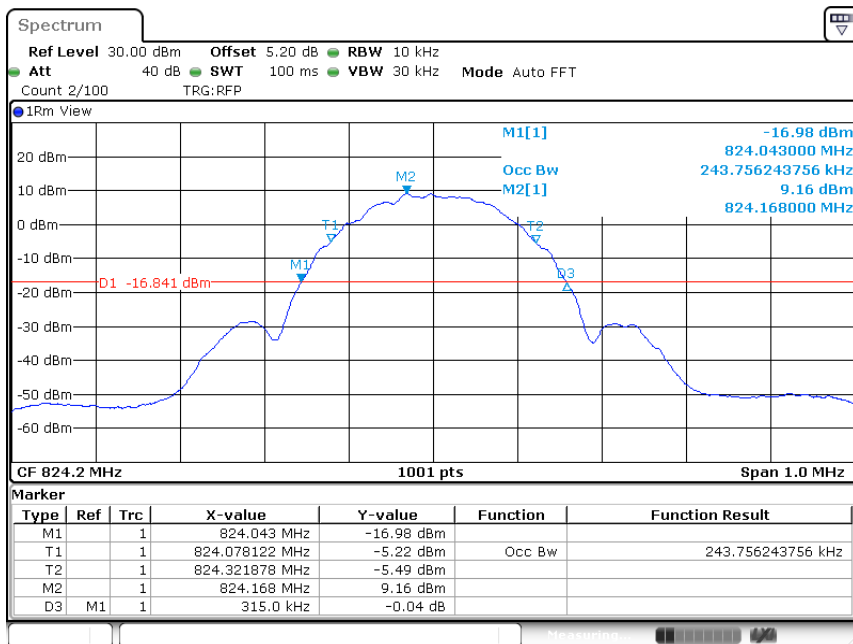
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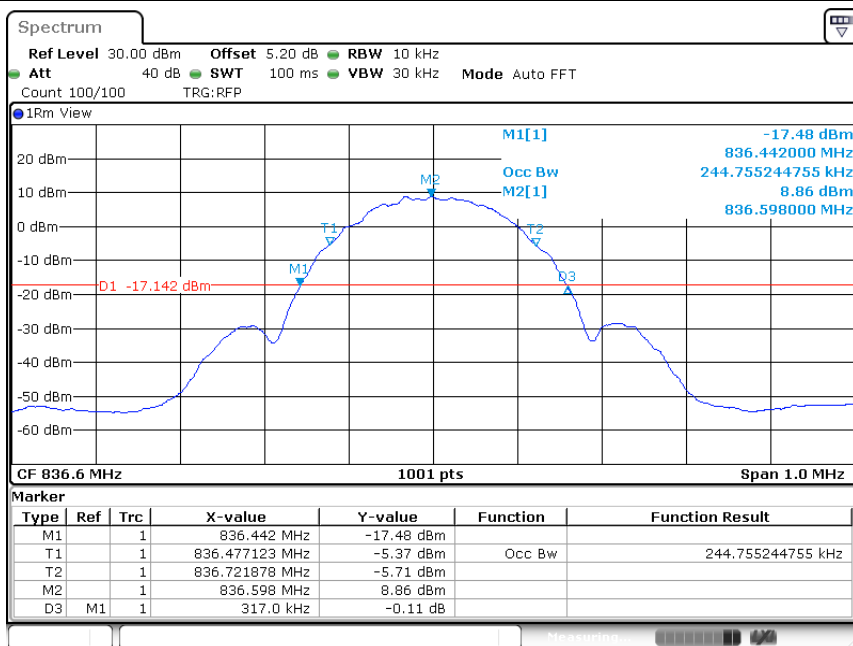


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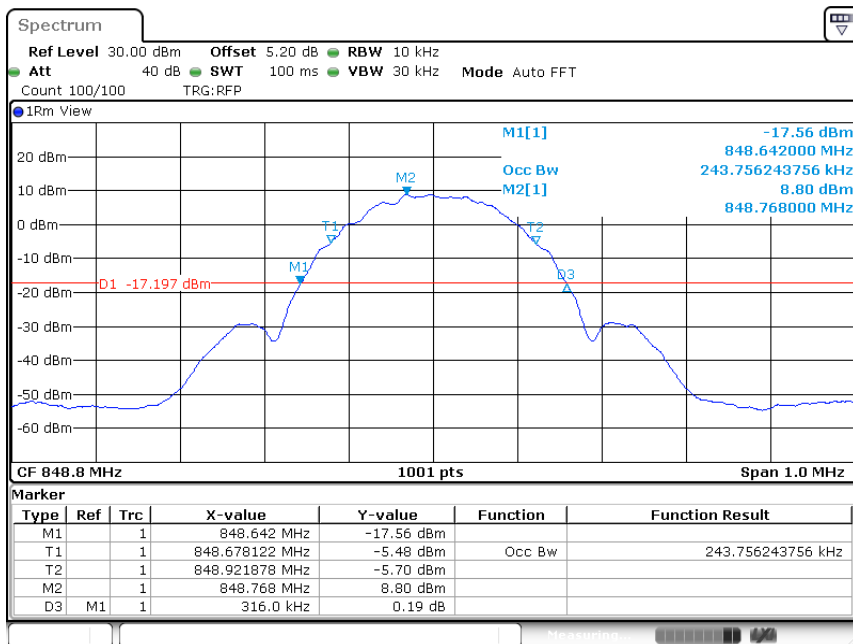
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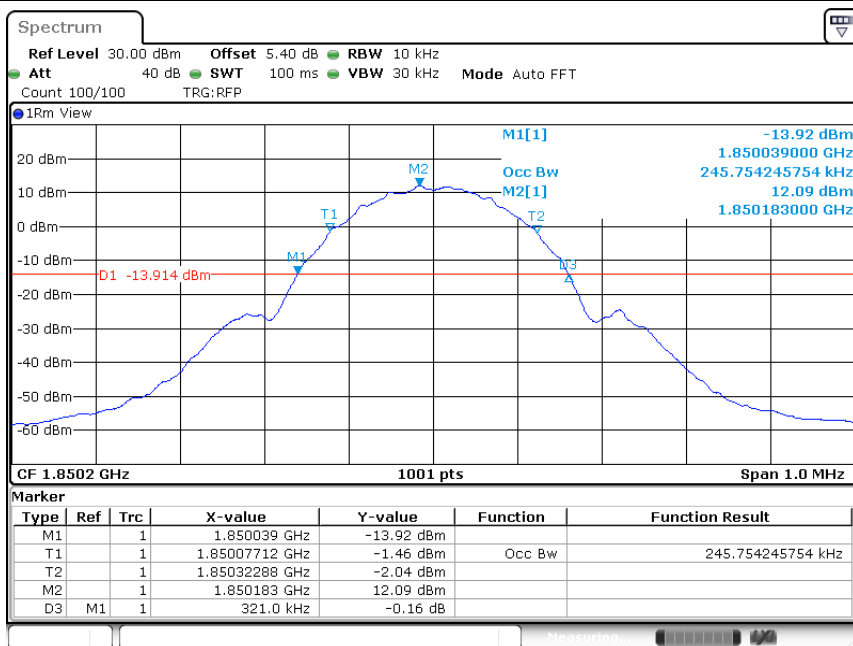


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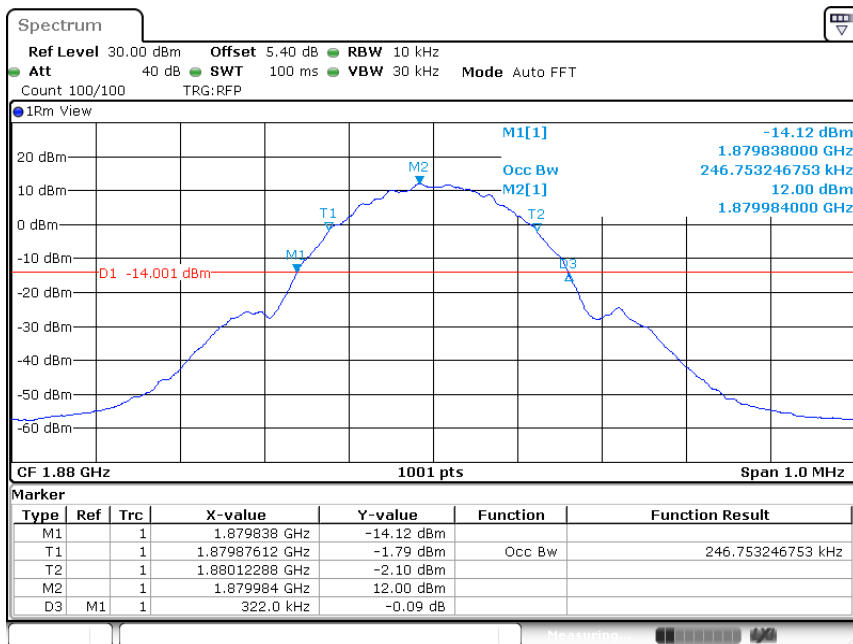
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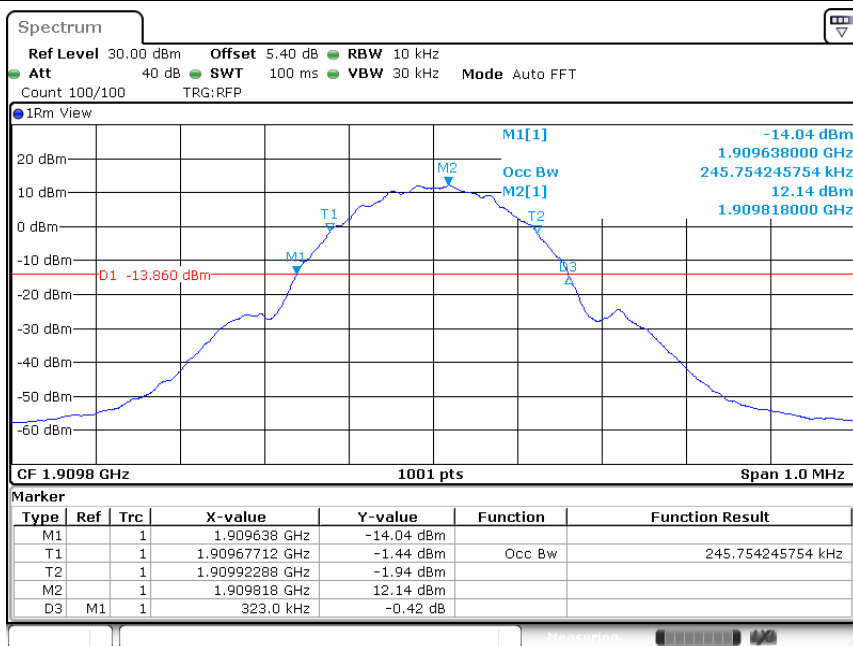


GSM1900-661



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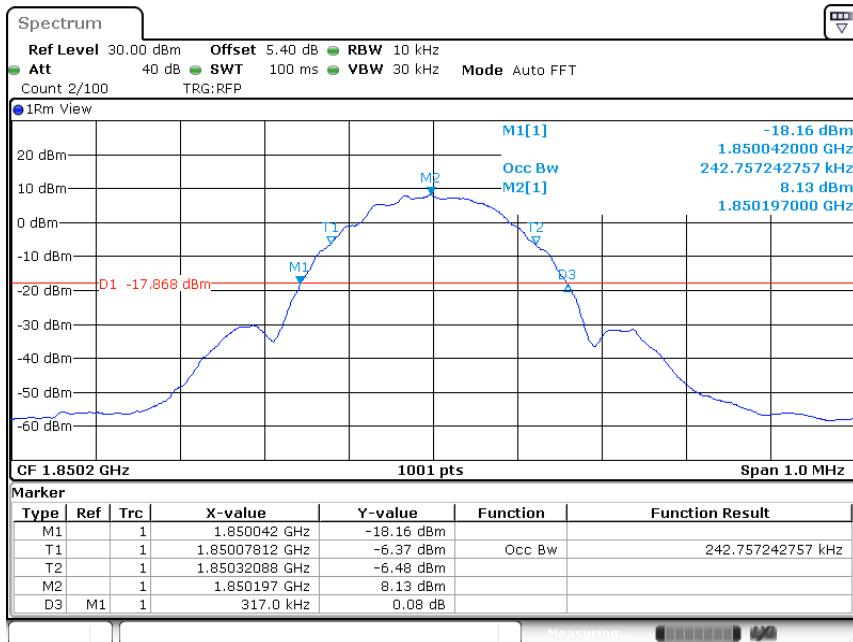
GSM1900-810



Date: 22 FEB 2021 19:12:22

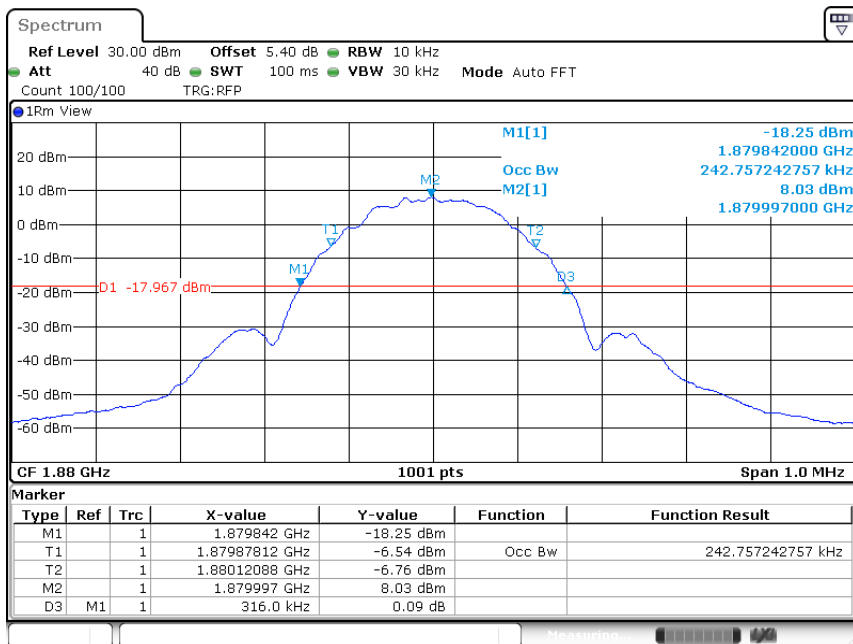


EGPRS1900-512



Date: 22 FEB 2021 19:17:15

EGPRS1900-661



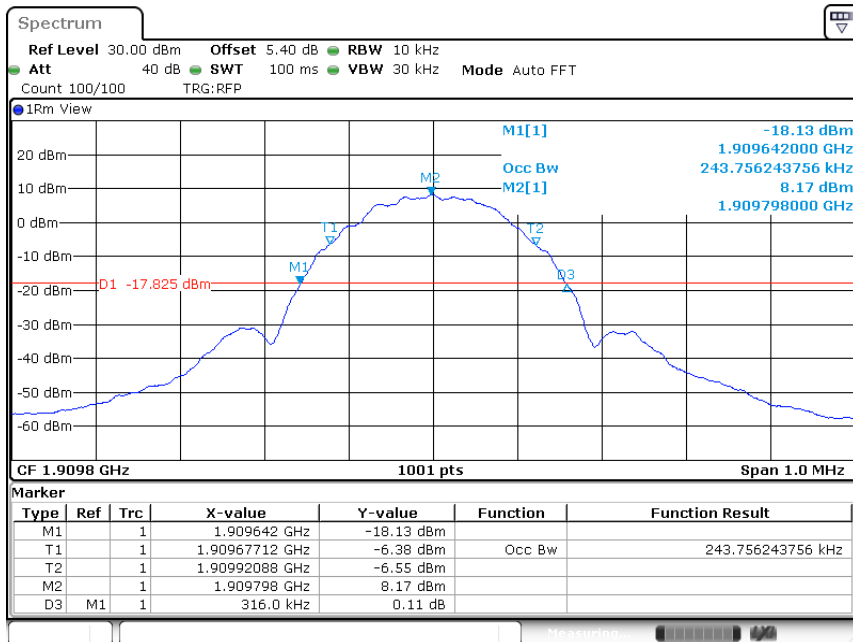
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EGPRS1900-810



Date: 22 FEB 2021 19:17:58



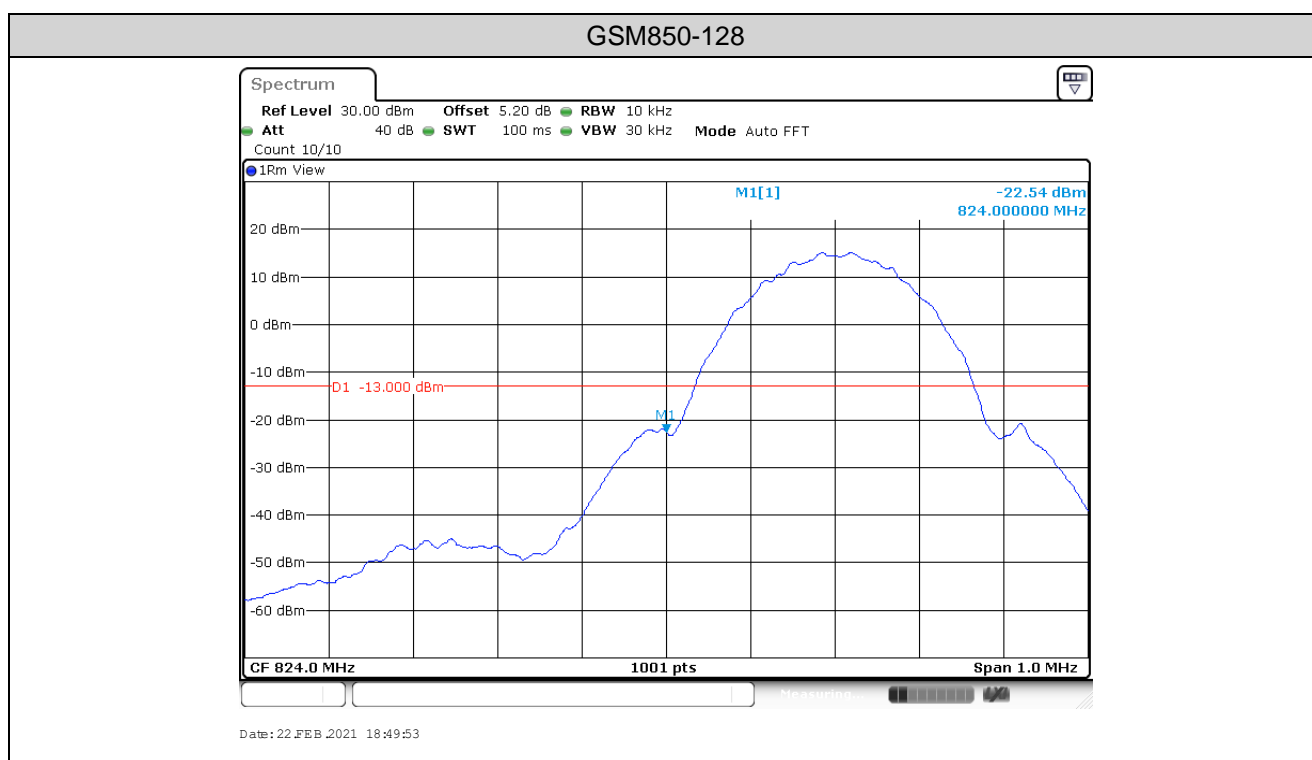


5. Band Edge Compliance

5.1. Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	824.00	-21.85	-13	PASS
GSM850	251	849.02	-20.95	-13	PASS
EGPRS850	128	823.98	-28.49	-13	PASS
EGPRS850	251	849.01	-29.15	-13	PASS
GSM1900	512	1849.98	-25.81	-13	PASS
GSM1900	810	1910.02	-24.48	-13	PASS
EGPRS1900	512	1849.98	-30.32	-13	PASS
EGPRS1900	810	1910.04	-32.02	-13	PASS

5.2. Test Plots

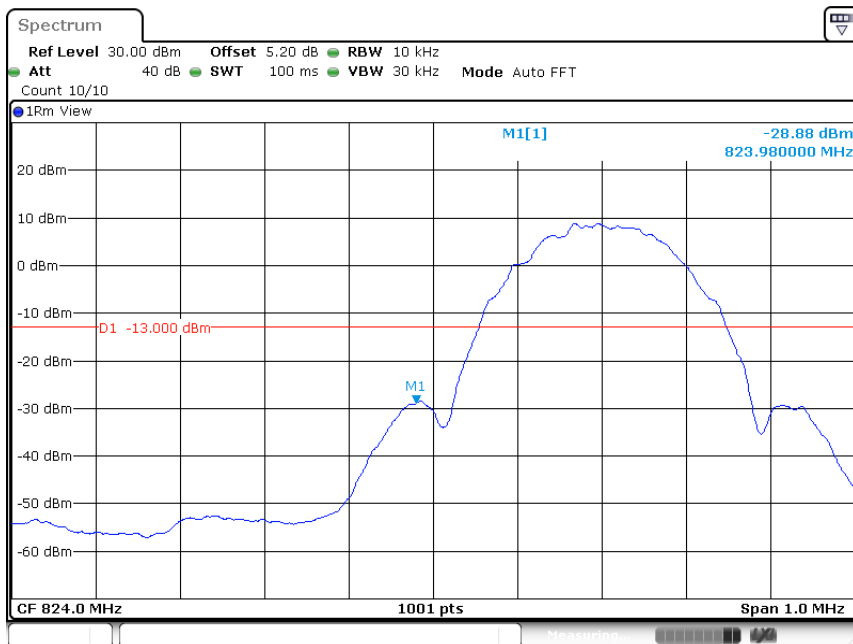


GSM850-251



Date: 22 FEB 2021 18:50:05

EGPRS850-128



Date: 22 FEB 2021 18:55:32



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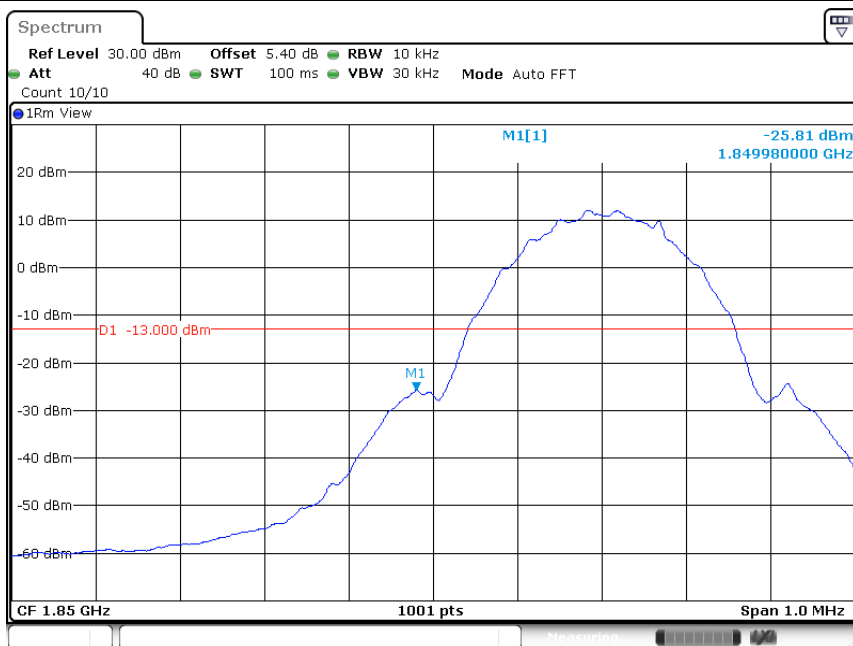
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EGPRS850-251



Date: 22 FEB 2021 18:55:45

GSM1900-512



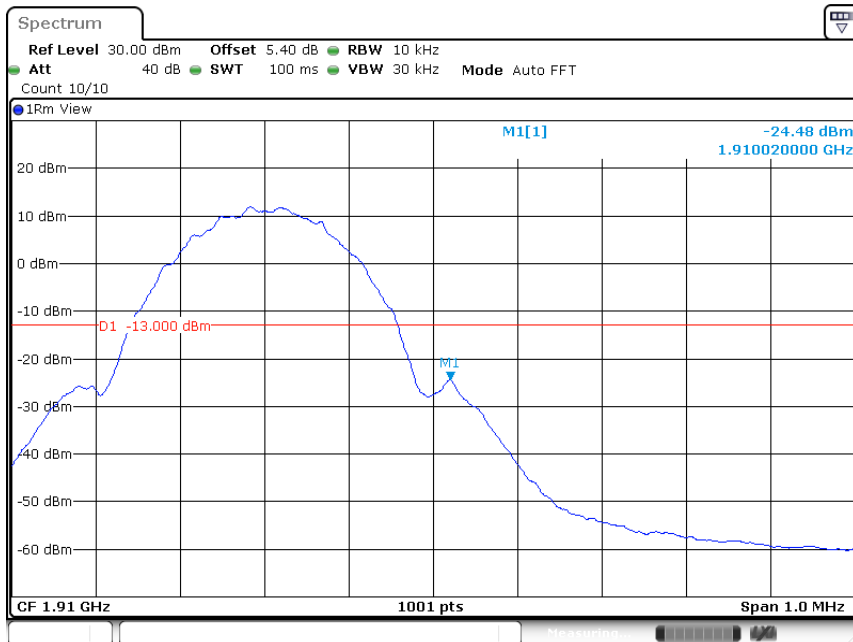
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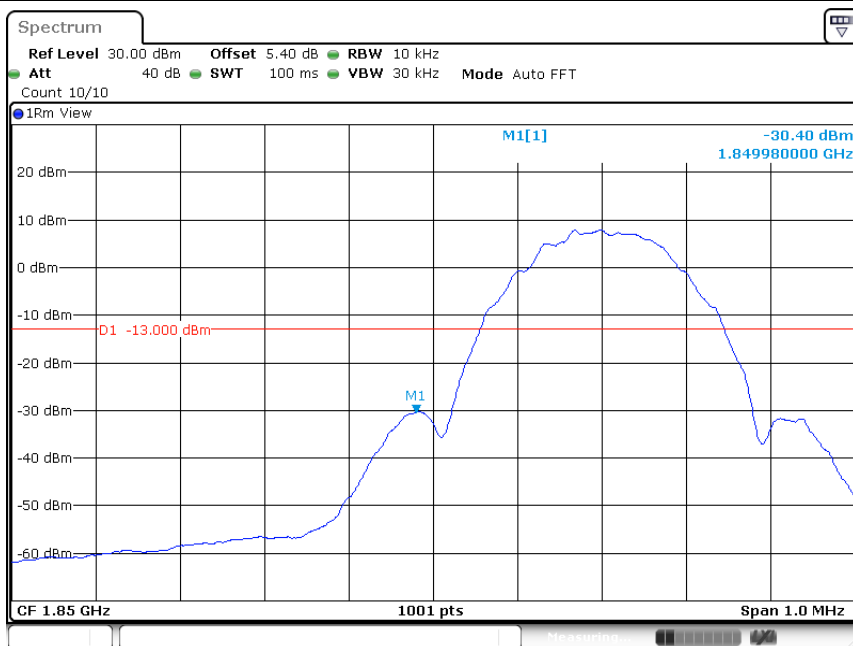
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GSM1900-810



Date: 22 FEB 2021 19:12:46

EGPRS1900-512

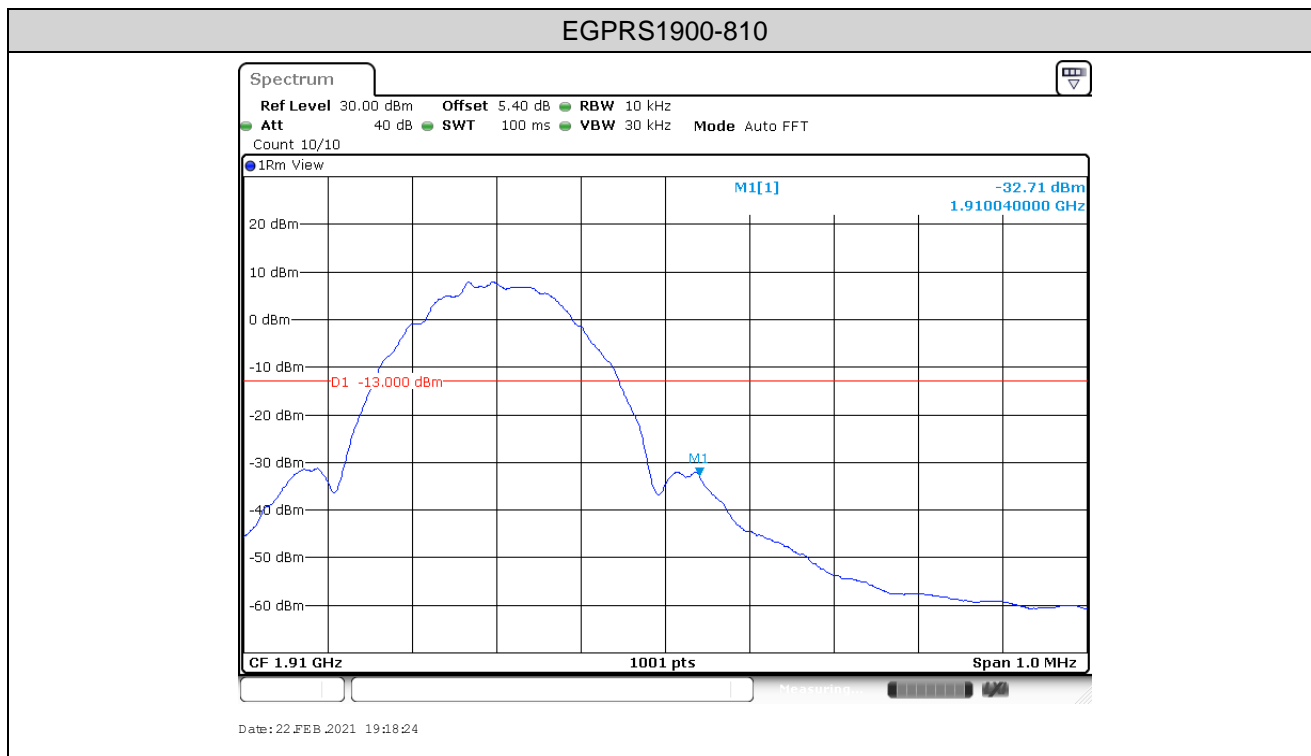


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6. Spurious Emission at Antenna Terminal

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 = $k * (Span / RBW)$ " 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 Result

Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	30~1000MHz	961.59	-31.77	-13	PASS
GSM850	128	1000~10000MHz	1697.03	-35.07	-13	PASS
GSM850	190	30~1000MHz	961.91	-32.3	-13	PASS
GSM850	190	1000~10000MHz	1697.33	-30.92	-13	PASS
GSM850	251	30~1000MHz	745.57	-32.43	-13	PASS
GSM850	251	1000~10000MHz	1697.03	-36.01	-13	PASS
EGPRS850	128	30~1000MHz	960.88	-33.13	-13	PASS
EGPRS850	128	1000~10000MHz	6959.75	-36.82	-13	PASS
EGPRS850	190	30~1000MHz	958.9	-32.93	-13	PASS
EGPRS850	190	1000~10000MHz	6988.55	-36.43	-13	PASS
EGPRS850	251	30~1000MHz	348.19	-32.61	-13	PASS
EGPRS850	251	1000~10000MHz	6969.65	-36.61	-13	PASS
GSM1900	512	30~1000MHz	958.08	-32.48	-13	PASS
GSM1900	512	1000~20000MHz	19948.7	-36.12	-13	PASS
GSM1900	661	30~1000MHz	860.96	-30.84	-13	PASS
GSM1900	661	1000~20000MHz	19951.87	-36.39	-13	PASS
GSM1900	810	30~1000MHz	862.6	-32.95	-13	PASS
GSM1900	810	1000~20000MHz	19953.77	-36.39	-13	PASS
EGPRS1900	512	30~1000MHz	890.54	-31.69	-13	PASS
EGPRS1900	512	1000~20000MHz	19936.67	-36.2	-13	PASS
EGPRS1900	661	30~1000MHz	905.54	-32.86	-13	PASS
EGPRS1900	661	1000~20000MHz	19948.7	-36.22	-13	PASS
EGPRS1900	810	30~1000MHz	863.7	-30.33	-13	PASS
EGPRS1900	810	1000~20000MHz	19930.97	-36.3	-13	PASS



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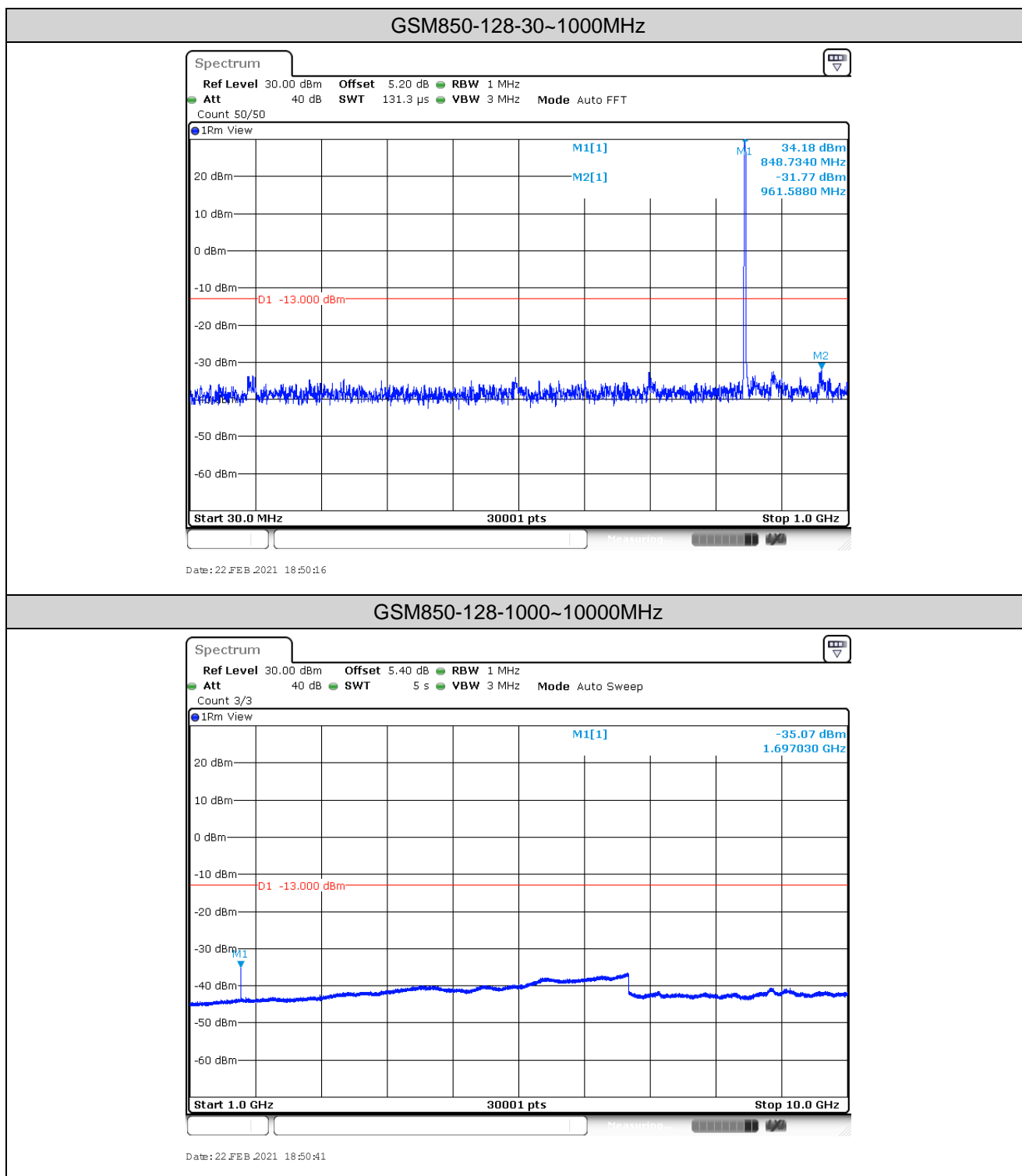
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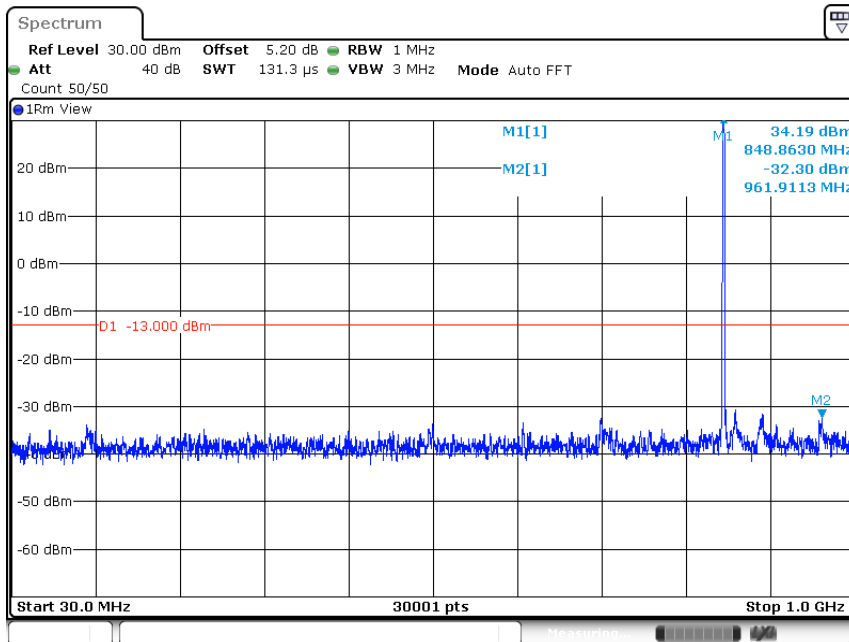
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6.2. Test Plots

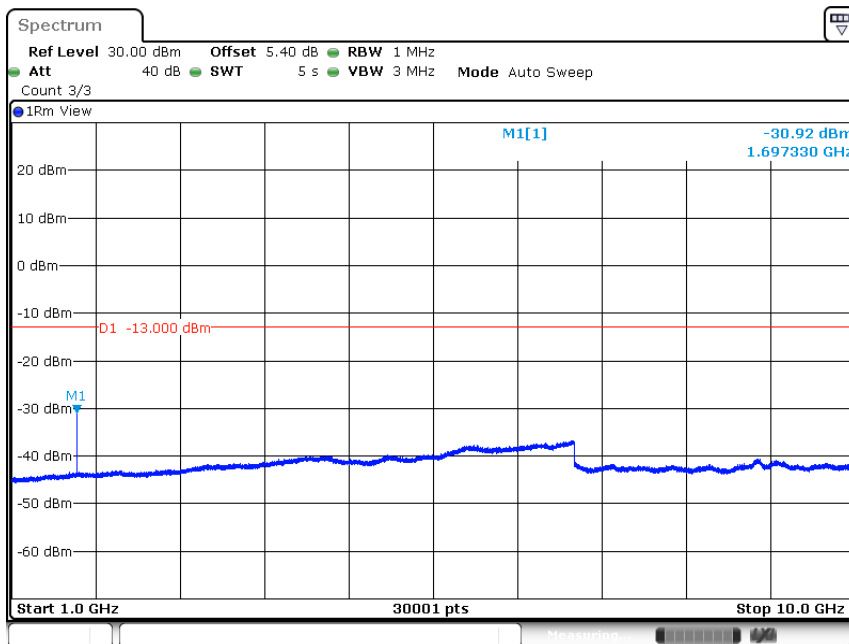


GSM850-190-30~1000MHz



Date: 22 FEB 2021 18:50:52

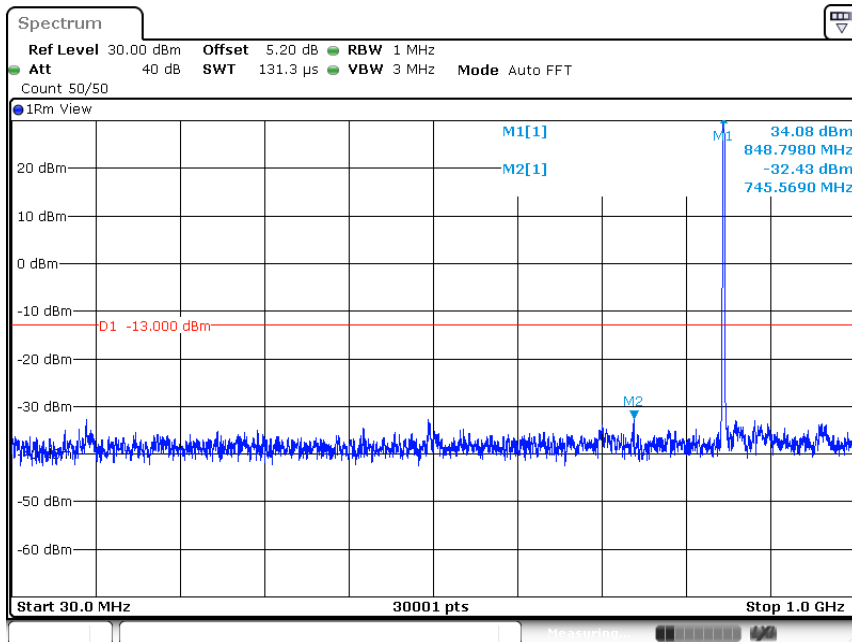
GSM850-190-1000~10000MHz



Date: 22 FEB 2021 18:51:16

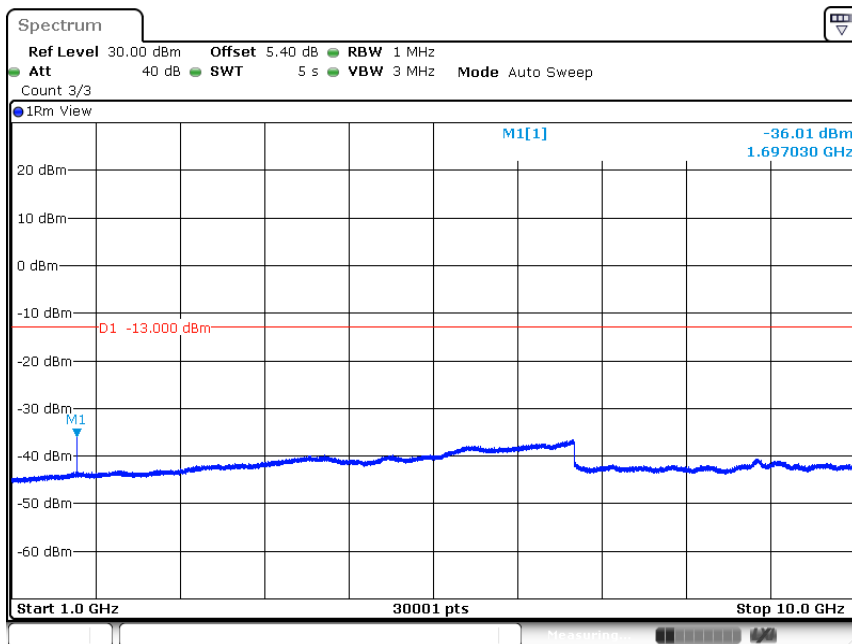


GSM850-251-30~1000MHz



Date: 22 FEB 2021 18:51:27

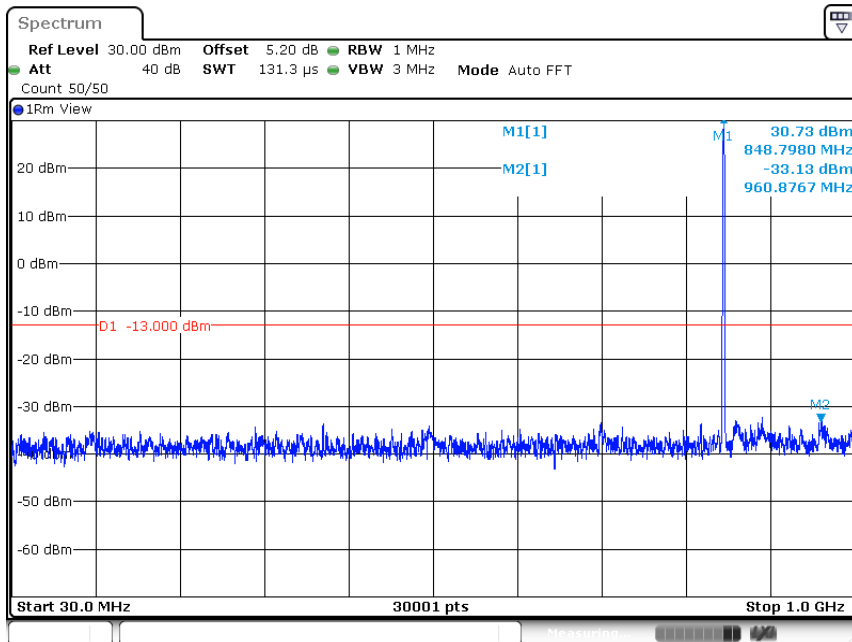
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Date: 22 FEB 2021 18:51:52

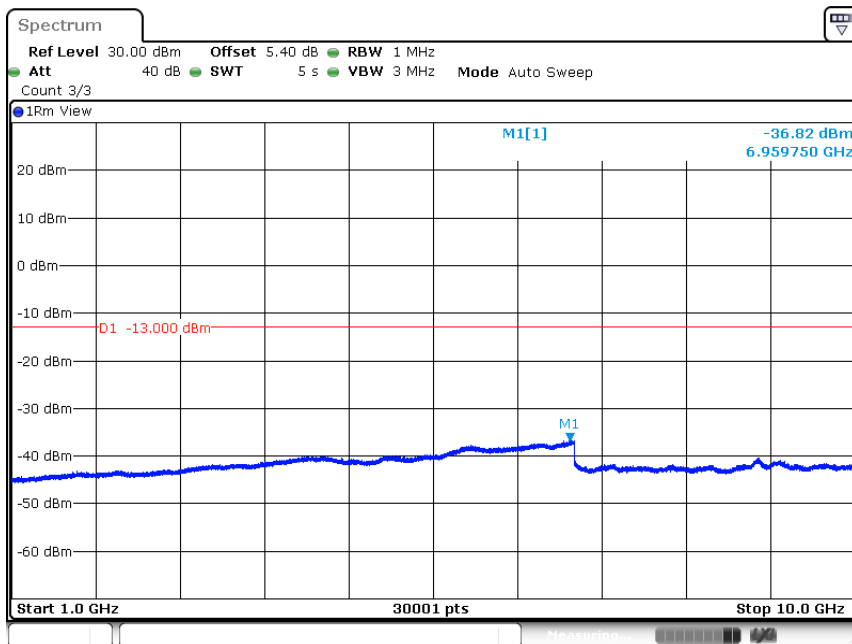


EGPRS850-128-30~1000MHz



Date: 22 FEB 2021 18:55:57

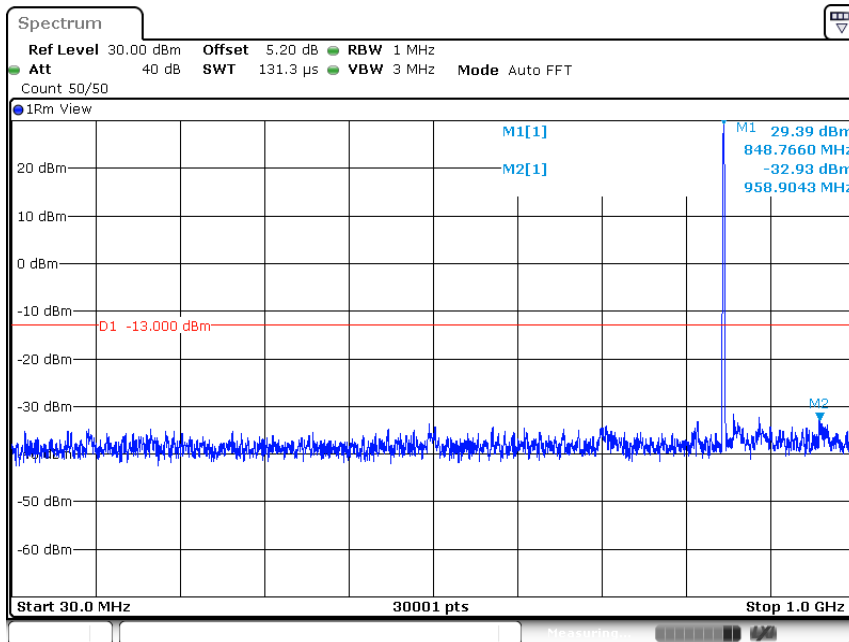
EGPRS850-128-1000~10000MHz



Date: 22 FEB 2021 18:56:21

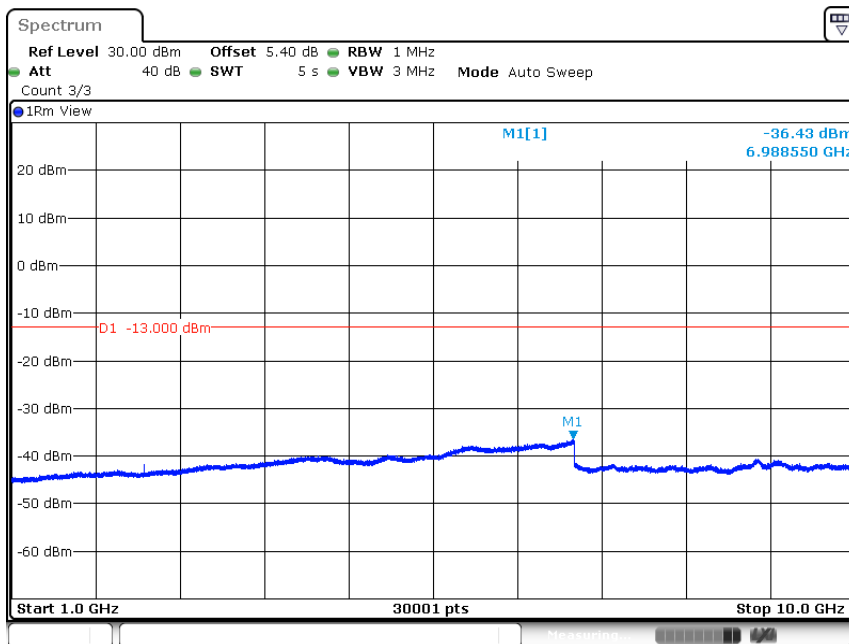


EGPRS850-190-30~1000MHz



Date: 22 FEB 2021 18:56:35

EGPRS850-190-1000~10000MHz



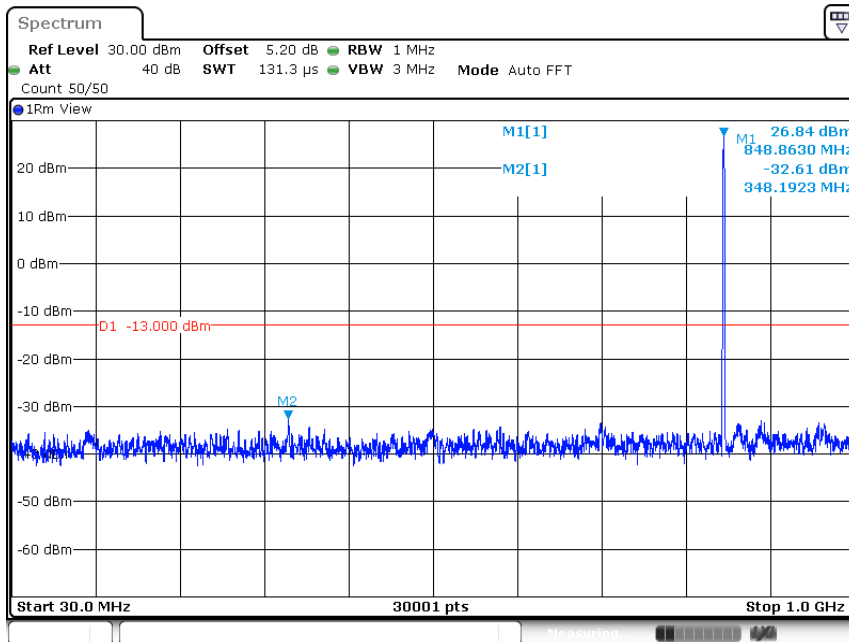
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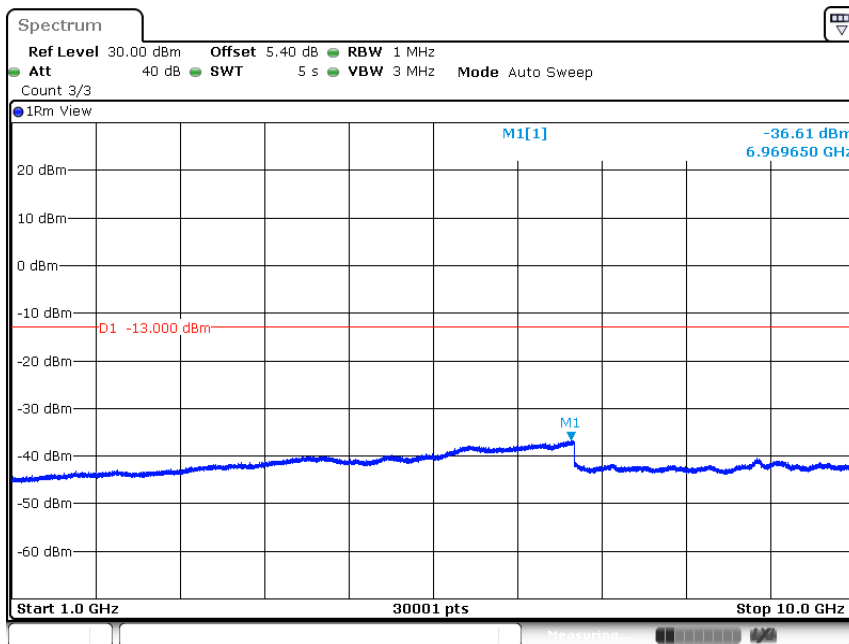
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EGPRS850-251-30~1000MHz



Date: 22 FEB 2021 18:57:14

EGPRS850-251-1000~10000MHz



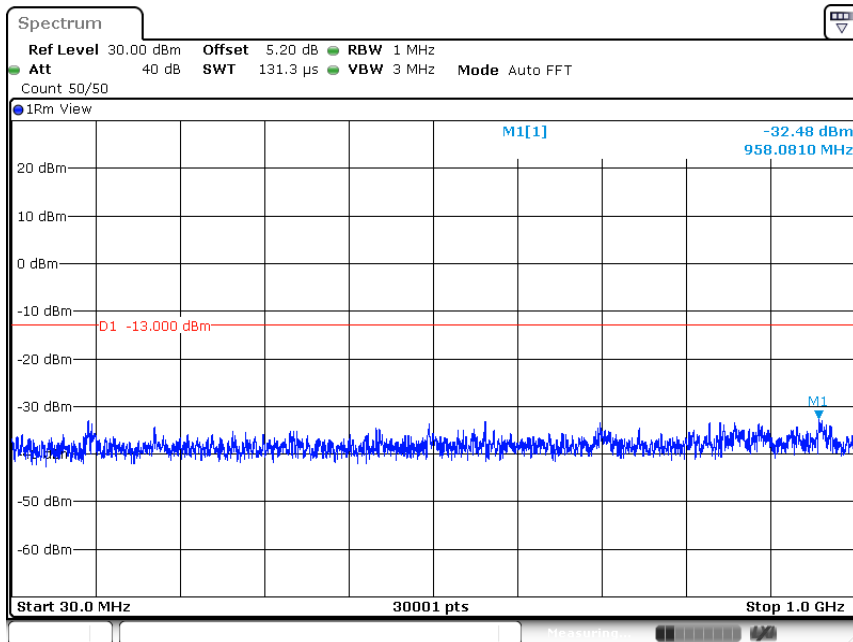
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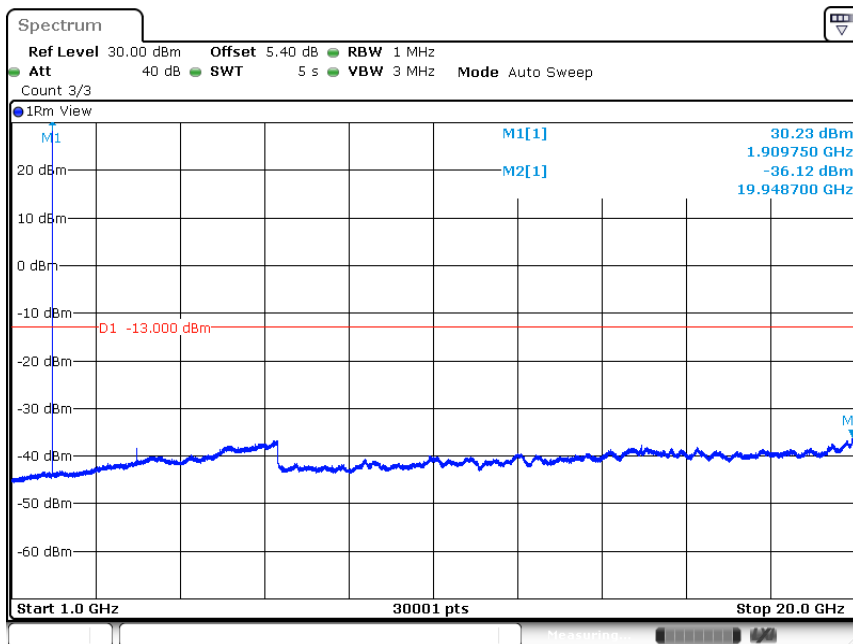
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GSM1900-512-30~1000MHz



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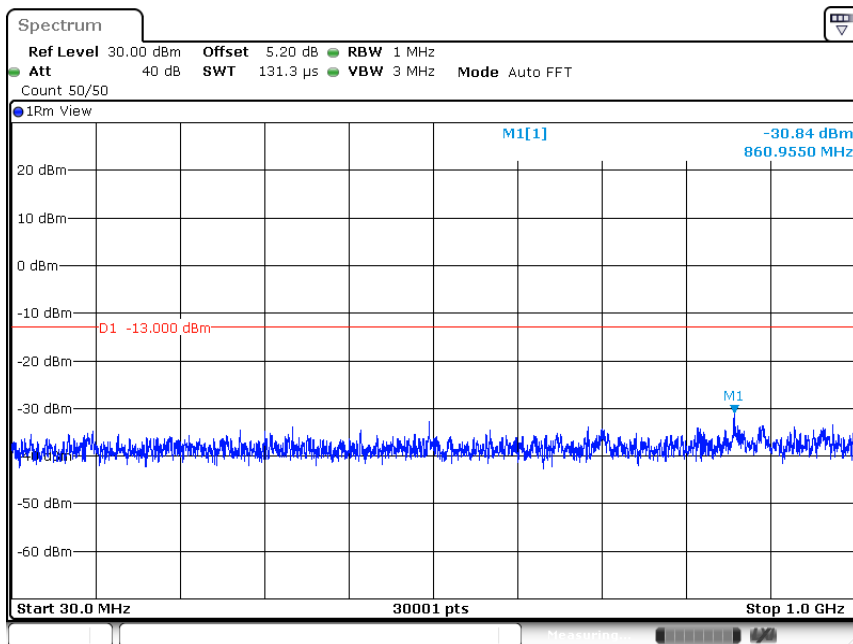
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Date: 22 FEB 2021 19:13:22

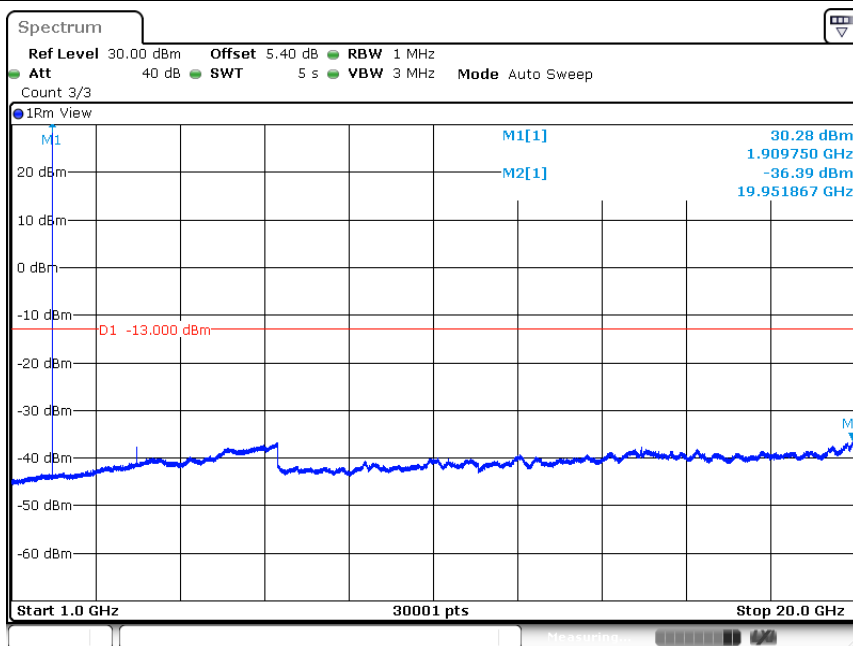


GSM1900-661-30~1000MHz



Date: 22 FEB 2021 19:13:32

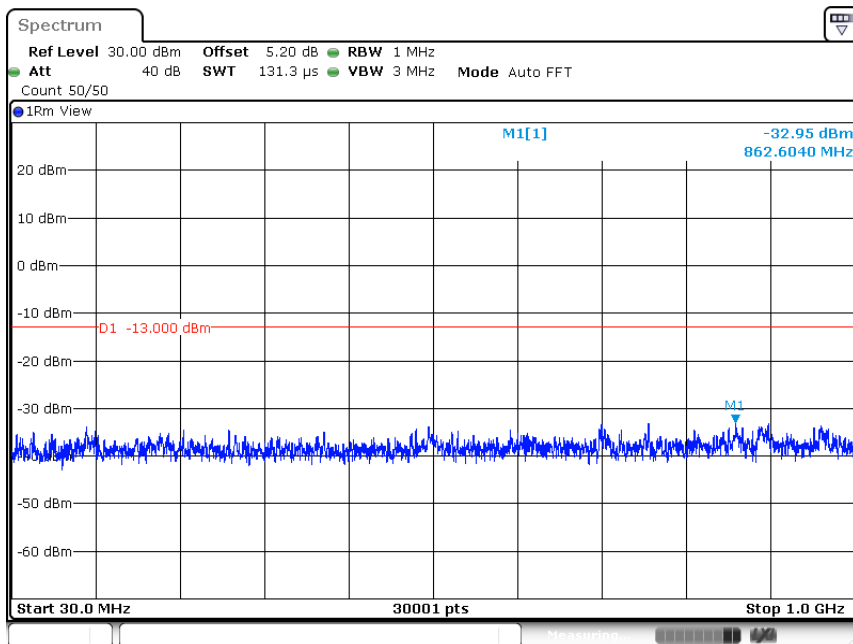
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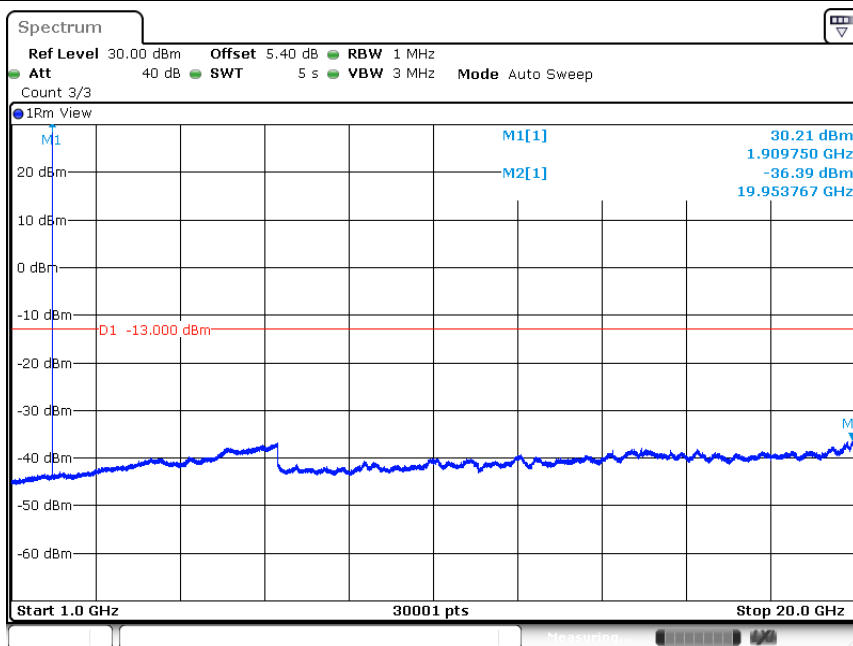


GSM1900-810-30~1000MHz



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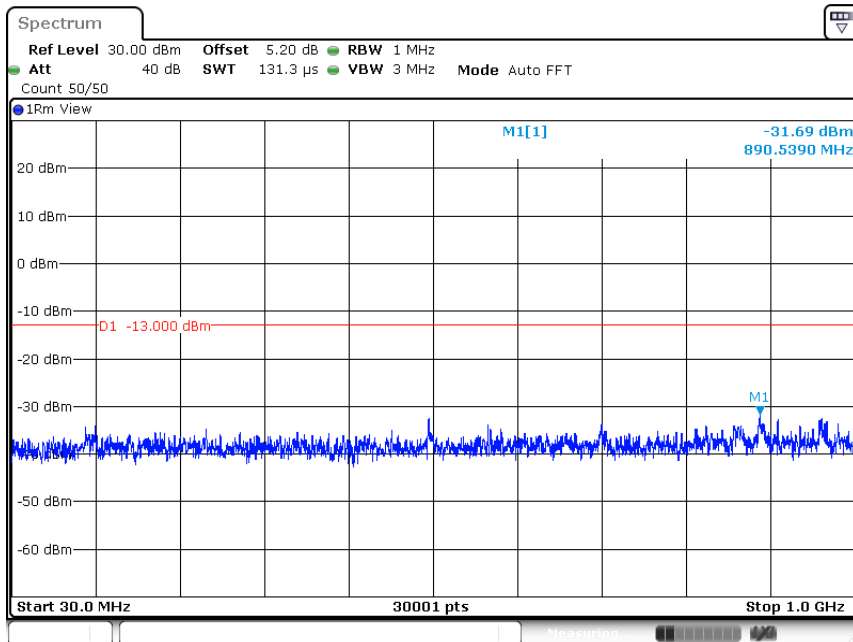
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Date: 22 FEB 2021 19:14:33

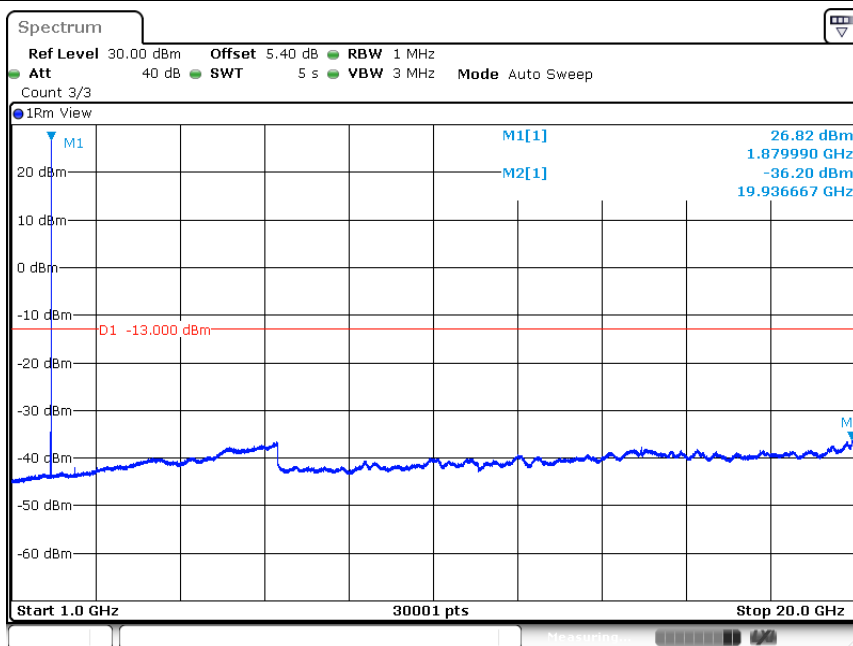


EGPRS1900-512-30~1000MHz



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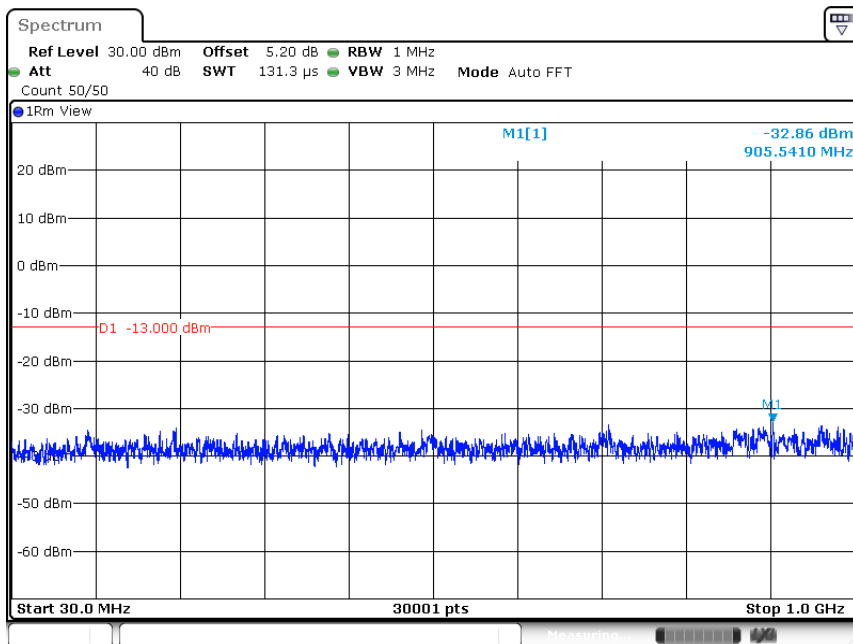
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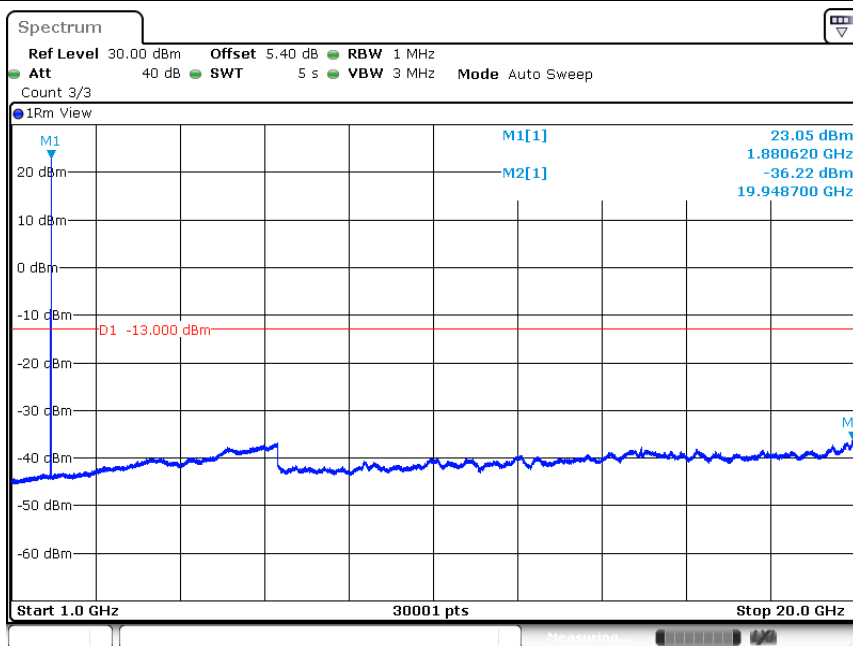


EGPRS1900-661-30~1000MHz



Date: 22 FEB 2021 19:26:50

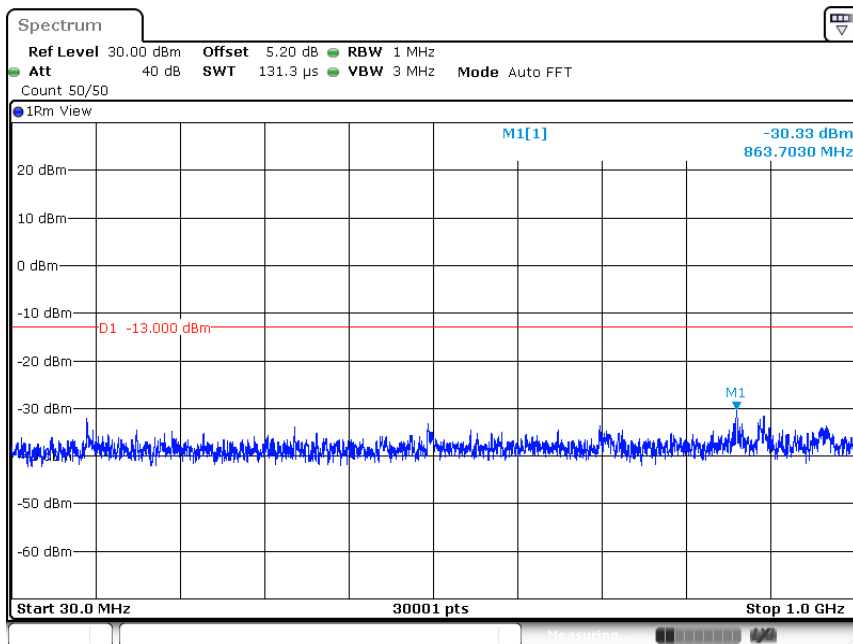
EGPRS1900-661-1000~20000MHz



Date: 22 FEB 2021 19:27:22

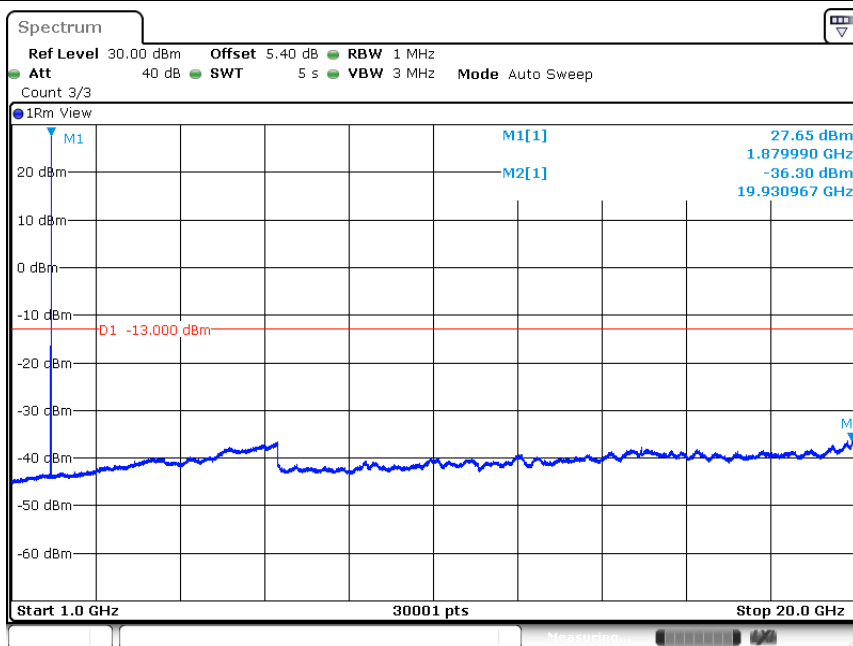


EGPRS1900-810-30~1000MHz



Date: 22 FEB 2021 19:27:33

EGPRS1900-810-1000~20000MHz



Date: 22 FEB 2021 19:28:29



7. Field Strength of Spurious Radiation

7.1. Test Band = GSM_850 ANT10

7.1.1. Test Channel =Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.1442	-67.70	-60.78	-13.00	47.78	Horizontal
2	237.4934	-69.50	-66.70	-13.00	53.70	Horizontal
3	1647.7295	-62.83	-58.77	-13.00	45.77	Horizontal
4	2472.6945	-61.25	-50.44	-13.00	37.44	Horizontal
5	3608.7870	-52.44	-60.56	-13.00	47.56	Horizontal
6	9282.4761	-57.32	-51.64	-13.00	38.64	Horizontal





7.2. Test Band = GSM_850 ANT10

7.2.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	107.6039	-70.18	-64.33	-13.00	51.33	Vertical
2	514.8302	-69.48	-64.70	-13.00	51.70	Vertical
3	1648.5297	-63.11	-58.43	-13.00	45.43	Vertical
4	2472.6945	-63.33	-53.93	-13.00	40.93	Vertical
5	3833.4945	-52.87	-61.67	-13.00	48.67	Vertical
6	9846.4615	-57.33	-50.86	-13.00	37.86	Vertical



7.3. Test Band = GSM_850 ANT10

7.3.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.3082	-68.38	-61.40	-13.00	48.40	Horizontal
2	236.9113	-69.99	-67.19	-13.00	54.19	Horizontal
3	1672.9346	-61.92	-58.10	-13.00	45.10	Horizontal
4	2509.9020	-62.53	-51.27	-13.00	38.27	Horizontal
5	3842.1281	-52.85	-61.02	-13.00	48.02	Horizontal
6	9317.7106	-56.98	-51.21	-13.00	38.21	Horizontal



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7.4. Test Band = GSM_850 ANT10
7.4.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	109.1560	-68.63	-62.42	-13.00	49.42	Vertical
2	475.1068	-69.58	-65.42	-13.00	52.42	Vertical
3	1672.9346	-65.03	-60.27	-13.00	47.27	Vertical
4	2509.9020	-63.79	-54.21	-13.00	41.21	Vertical
5	3915.1638	-52.65	-61.50	-13.00	48.50	Vertical
6	9325.1775	-56.81	-50.95	-13.00	37.95	Vertical



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7.5. Test Band = GSM_850 ANT10

7.5.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.5807	-68.09	-61.14	-13.00	48.14	Horizontal
2	230.3150	-70.06	-67.23	-13.00	54.23	Horizontal
3	1697.7395	-61.23	-57.66	-13.00	44.66	Horizontal
4	2546.3093	-57.50	-46.70	-13.00	33.70	Horizontal
5	3615.5539	-52.48	-60.64	-13.00	47.64	Horizontal
6	9286.9096	-57.70	-51.95	-13.00	38.95	Horizontal



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7.6. Test Band = GSM_850 ANT10

7.6.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	113.9577	-69.75	-63.69	-13.00	50.69	Vertical
2	454.4932	-69.30	-65.13	-13.00	52.13	Vertical
3	1697.3395	-63.07	-58.23	-13.00	45.23	Vertical
4	2546.3093	-58.68	-49.01	-13.00	36.01	Vertical
5	7453.3151	-55.21	-54.91	-13.00	41.91	Vertical
6	9893.5965	-57.45	-51.07	-13.00	38.07	Vertical



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7.7. Test Band = GSM_1900 ANT4

7.7.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.1627	-68.37	-61.39	-13.00	48.39	Horizontal
2	233.5162	-70.46	-67.64	-13.00	54.64	Horizontal
3	803.9047	-70.83	-60.88	-13.00	47.88	Horizontal
4	3700.5234	-51.07	-59.64	-13.00	46.64	Horizontal
5	9315.2105	-57.32	-51.52	-13.00	38.52	Horizontal
6	16379.946	-56.95	-42.86	-13.00	29.86	Horizontal



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7.8. Test Band = GSM_1900 ANT4

7.8.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.3567	-69.37	-72.21	-13.00	59.21	Vertical
2	107.8949	-70.58	-64.66	-13.00	51.66	Vertical
3	608.1489	-70.55	-62.94	-13.00	49.94	Vertical
4	3852.0284	-53.06	-61.83	-13.00	48.83	Vertical
5	14464.382	-59.29	-47.07	-13.00	34.07	Vertical
6	17996.499	-56.28	-38.49	-13.00	25.49	Vertical



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7.9. Test Band = GSM_1900 ANT4

7.9.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.3567	-67.61	-60.62	-13.00	47.62	Horizontal
2	237.3479	-70.96	-68.16	-13.00	55.16	Horizontal
3	786.6863	-71.00	-61.11	-13.00	48.11	Horizontal
4	3760.0253	-50.81	-59.21	-13.00	46.21	Horizontal
5	9316.2105	-57.38	-51.59	-13.00	38.59	Horizontal
6	17999.000	-56.05	-42.94	-13.00	29.94	Horizontal



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7.10. Test Band = GSM_1900 ANT4

7.10.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	68.3169	-70.64	-69.11	-13.00	56.11	Vertical
2	109.5440	-70.62	-64.32	-13.00	51.32	Vertical
3	682.9881	-70.77	-62.78	-13.00	49.78	Vertical
4	3784.0261	-53.15	-62.08	-13.00	49.08	Vertical
5	14496.383	-59.24	-46.76	-13.00	33.76	Vertical
6	17991.499	-55.77	-38.10	-13.00	25.10	Vertical



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7.11. Test Band = GSM_1900 ANT4

7.11.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.3082	-66.44	-59.46	-13.00	46.46	Horizontal
2	234.3892	-70.04	-67.23	-13.00	54.23	Horizontal
3	640.5485	-70.74	-62.91	-13.00	49.91	Horizontal
4	3638.0213	-52.69	-60.96	-13.00	47.96	Horizontal
5	9990.2330	-57.27	-51.74	-13.00	38.74	Horizontal
6	16381.446	-56.56	-42.44	-13.00	29.44	Horizontal



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7.12. Test Band = GSM_1900 ANT4

7.12.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	60.6050	-70.35	-71.36	-13.00	58.36	Vertical
2	112.1631	-69.84	-63.62	-13.00	50.62	Vertical
3	601.1161	-71.09	-63.45	-13.00	50.45	Vertical
4	3819.5273	-52.48	-61.30	-13.00	48.30	Vertical
5	14484.882	-59.28	-46.89	-13.00	33.89	Vertical
6	17998.500	-56.25	-38.41	-13.00	25.41	Vertical

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.



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8. Frequency Stability

8.1. Frequency Error Vs Voltage

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VL	NT	23.41	0.028403	±2.5	PASS
GSM850	128	VN	NT	22.28	0.027032	±2.5	PASS
GSM850	128	VH	NT	21.11	0.025613	±2.5	PASS
GSM850	190	VL	NT	14.08	0.016830	±2.5	PASS
GSM850	190	VN	NT	13.50	0.016137	±2.5	PASS
GSM850	190	VH	NT	16.47	0.019687	±2.5	PASS
GSM850	251	VL	NT	18.76	0.022102	±2.5	PASS
GSM850	251	VN	NT	15.30	0.018025	±2.5	PASS
GSM850	251	VH	NT	11.17	0.013160	±2.5	PASS
EGPRS850	128	VL	NT	28.90	0.035064	±2.5	PASS
EGPRS850	128	VN	NT	32.03	0.038862	±2.5	PASS
EGPRS850	128	VH	NT	34.55	0.041919	±2.5	PASS
EGPRS850	190	VL	NT	32.00	0.038250	±2.5	PASS
EGPRS850	190	VN	NT	28.22	0.033732	±2.5	PASS
EGPRS850	190	VH	NT	23.28	0.027827	±2.5	PASS
EGPRS850	251	VL	NT	26.35	0.031044	±2.5	PASS
EGPRS850	251	VN	NT	23.08	0.027191	±2.5	PASS
EGPRS850	251	VH	NT	30.09	0.035450	±2.5	PASS
GSM1900	512	VL	NT	12.27	0.006632	±2.5	PASS
GSM1900	512	VN	NT	7.14	0.003859	±2.5	PASS
GSM1900	512	VH	NT	17.40	0.009404	±2.5	PASS
GSM1900	661	VL	NT	10.69	0.005686	±2.5	PASS
GSM1900	661	VN	NT	18.95	0.010080	±2.5	PASS
GSM1900	661	VH	NT	20.21	0.010750	±2.5	PASS
GSM1900	810	VL	NT	16.50	0.008640	±2.5	PASS
GSM1900	810	VN	NT	5.91	0.003095	±2.5	PASS
GSM1900	810	VH	NT	10.85	0.005681	±2.5	PASS
EGPRS1900	512	VL	NT	20.79	0.011237	±2.5	PASS
EGPRS1900	512	VN	NT	27.86	0.015058	±2.5	PASS
EGPRS1900	512	VH	NT	22.50	0.012161	±2.5	PASS



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EGPRS1900	661	VL	NT	25.89	0.013771	±2.5	PASS
EGPRS1900	661	VN	NT	19.47	0.010356	±2.5	PASS
EGPRS1900	661	VH	NT	16.85	0.008963	±2.5	PASS
EGPRS1900	810	VL	NT	19.47	0.010195	±2.5	PASS
EGPRS1900	810	VN	NT	30.80	0.016127	±2.5	PASS
EGPRS1900	810	VH	NT	11.11	0.005817	±2.5	PASS

8.2.Frequency Error Vs Temperature

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	16.85	0.020444	±2.5	PASS
GSM850	128	NV	-20	13.56	0.016452	±2.5	PASS
GSM850	128	NV	-10	14.50	0.017593	±2.5	PASS
GSM850	128	NV	0	14.79	0.017945	±2.5	PASS
GSM850	128	NV	10	16.98	0.020602	±2.5	PASS
GSM850	128	NV	20	19.40	0.023538	±2.5	PASS
GSM850	128	NV	30	22.70	0.027542	±2.5	PASS
GSM850	128	NV	40	16.47	0.019983	±2.5	PASS
GSM850	128	NV	50	17.31	0.021002	±2.5	PASS
GSM850	190	NV	-30	7.30	0.008726	±2.5	PASS
GSM850	190	NV	-20	11.07	0.013232	±2.5	PASS
GSM850	190	NV	-10	14.14	0.016902	±2.5	PASS
GSM850	190	NV	0	17.34	0.020727	±2.5	PASS
GSM850	190	NV	10	8.43	0.010077	±2.5	PASS
GSM850	190	NV	20	9.75	0.011654	±2.5	PASS
GSM850	190	NV	30	12.72	0.015204	±2.5	PASS
GSM850	190	NV	40	15.30	0.018288	±2.5	PASS
GSM850	190	NV	50	18.08	0.021611	±2.5	PASS
GSM850	251	NV	-30	22.15	0.026096	±2.5	PASS
GSM850	251	NV	-20	16.27	0.019168	±2.5	PASS
GSM850	251	NV	-10	20.79	0.024493	±2.5	PASS
GSM850	251	NV	0	16.43	0.019357	±2.5	PASS
GSM850	251	NV	10	19.40	0.022856	±2.5	PASS
GSM850	251	NV	20	21.24	0.025024	±2.5	PASS
GSM850	251	NV	30	15.17	0.017872	±2.5	PASS
GSM850	251	NV	40	17.01	0.020040	±2.5	PASS



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GSM850	251	NV	50	19.15	0.022561	±2.5	PASS
EGPRS850	128	NV	-30	29.32	0.035574	±2.5	PASS
EGPRS850	128	NV	-20	35.06	0.042538	±2.5	PASS
EGPRS850	128	NV	-10	31.22	0.037879	±2.5	PASS
EGPRS850	128	NV	0	34.64	0.042029	±2.5	PASS
EGPRS850	128	NV	10	27.60	0.033487	±2.5	PASS
EGPRS850	128	NV	20	30.45	0.036945	±2.5	PASS
EGPRS850	128	NV	30	33.58	0.040743	±2.5	PASS
EGPRS850	128	NV	40	27.48	0.033341	±2.5	PASS
EGPRS850	128	NV	50	31.51	0.038231	±2.5	PASS
EGPRS850	190	NV	-30	24.50	0.029285	±2.5	PASS
EGPRS850	190	NV	-20	26.05	0.031138	±2.5	PASS
EGPRS850	190	NV	-10	27.44	0.032799	±2.5	PASS
EGPRS850	190	NV	0	29.57	0.035345	±2.5	PASS
EGPRS850	190	NV	10	33.38	0.039900	±2.5	PASS
EGPRS850	190	NV	20	27.89	0.033337	±2.5	PASS
EGPRS850	190	NV	30	32.19	0.038477	±2.5	PASS
EGPRS850	190	NV	40	23.44	0.028018	±2.5	PASS
EGPRS850	190	NV	50	29.90	0.035740	±2.5	PASS
EGPRS850	251	NV	-30	32.03	0.037736	±2.5	PASS
EGPRS850	251	NV	-20	25.96	0.030584	±2.5	PASS
EGPRS850	251	NV	-10	30.54	0.035980	±2.5	PASS
EGPRS850	251	NV	0	35.26	0.041541	±2.5	PASS
EGPRS850	251	NV	10	29.06	0.034237	±2.5	PASS
EGPRS850	251	NV	20	33.19	0.039102	±2.5	PASS
EGPRS850	251	NV	30	26.60	0.031338	±2.5	PASS
EGPRS850	251	NV	40	28.77	0.033895	±2.5	PASS
EGPRS850	251	NV	50	31.06	0.036593	±2.5	PASS
GSM1900	512	NV	-30	7.62	0.004118	±2.5	PASS
GSM1900	512	NV	-20	14.01	0.007572	±2.5	PASS
GSM1900	512	NV	-10	20.47	0.011064	±2.5	PASS
GSM1900	512	NV	0	7.04	0.003805	±2.5	PASS
GSM1900	512	NV	10	14.14	0.007642	±2.5	PASS
GSM1900	512	NV	20	14.01	0.007572	±2.5	PASS
GSM1900	512	NV	30	11.17	0.006037	±2.5	PASS
GSM1900	512	NV	40	20.47	0.011064	±2.5	PASS
GSM1900	512	NV	50	13.46	0.007275	±2.5	PASS



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GSM1900	661	NV	-30	13.46	0.007160	±2.5	PASS
GSM1900	661	NV	-20	24.76	0.013170	±2.5	PASS
GSM1900	661	NV	-10	17.40	0.009255	±2.5	PASS
GSM1900	661	NV	0	10.43	0.005548	±2.5	PASS
GSM1900	661	NV	10	23.25	0.012367	±2.5	PASS
GSM1900	661	NV	20	14.40	0.007660	±2.5	PASS
GSM1900	661	NV	30	8.27	0.004399	±2.5	PASS
GSM1900	661	NV	40	20.47	0.010888	±2.5	PASS
GSM1900	661	NV	50	15.98	0.008500	±2.5	PASS
GSM1900	810	NV	-30	1.68	0.000880	±2.5	PASS
GSM1900	810	NV	-20	14.40	0.007540	±2.5	PASS
GSM1900	810	NV	-10	8.75	0.004582	±2.5	PASS
GSM1900	810	NV	0	2.94	0.001539	±2.5	PASS
GSM1900	810	NV	10	14.69	0.007692	±2.5	PASS
GSM1900	810	NV	20	10.69	0.005597	±2.5	PASS
GSM1900	810	NV	30	2.84	0.001487	±2.5	PASS
GSM1900	810	NV	40	5.91	0.003095	±2.5	PASS
GSM1900	810	NV	50	11.20	0.005864	±2.5	PASS
EGPRS1900	512	NV	-30	22.21	0.012004	±2.5	PASS
EGPRS1900	512	NV	-20	26.76	0.014463	±2.5	PASS
EGPRS1900	512	NV	-10	26.22	0.014171	±2.5	PASS
EGPRS1900	512	NV	0	18.37	0.009929	±2.5	PASS
EGPRS1900	512	NV	10	16.40	0.008864	±2.5	PASS
EGPRS1900	512	NV	20	19.21	0.010383	±2.5	PASS
EGPRS1900	512	NV	30	25.80	0.013944	±2.5	PASS
EGPRS1900	512	NV	40	31.45	0.016998	±2.5	PASS
EGPRS1900	512	NV	50	22.44	0.012128	±2.5	PASS
EGPRS1900	661	NV	-30	27.35	0.014548	±2.5	PASS
EGPRS1900	661	NV	-20	18.60	0.009894	±2.5	PASS
EGPRS1900	661	NV	-10	26.64	0.014170	±2.5	PASS
EGPRS1900	661	NV	0	36.03	0.019165	±2.5	PASS
EGPRS1900	661	NV	10	18.27	0.009718	±2.5	PASS
EGPRS1900	661	NV	20	22.12	0.011766	±2.5	PASS
EGPRS1900	661	NV	30	26.09	0.013878	±2.5	PASS
EGPRS1900	661	NV	40	32.51	0.017293	±2.5	PASS
EGPRS1900	661	NV	50	18.95	0.010080	±2.5	PASS
EGPRS1900	810	NV	-30	23.34	0.012221	±2.5	PASS



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EGPRS1900	810	NV	-20	8.88	0.004650	±2.5	PASS
EGPRS1900	810	NV	-10	15.34	0.008032	±2.5	PASS
EGPRS1900	810	NV	0	16.47	0.008624	±2.5	PASS
EGPRS1900	810	NV	10	20.40	0.010682	±2.5	PASS
EGPRS1900	810	NV	20	26.25	0.013745	±2.5	PASS
EGPRS1900	810	NV	30	9.43	0.004938	±2.5	PASS
EGPRS1900	810	NV	40	13.50	0.007069	±2.5	PASS
EGPRS1900	810	NV	50	16.50	0.008640	±2.5	PASS

The End

