



# Appendix B

## GSM 850 & 1900



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## 1. Effective (Isotropic) Radiated Power Output Data

### 1.1. Test Result

ANT1:

Band	Channel	Slot	Power(dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	33.47	27.72	38.45	PASS
GSM850	190	---	33.46	27.71	38.45	PASS
GSM850	251	---	33.52	27.77	38.45	PASS
EGPRS850	128	1	27.01	21.26	38.45	PASS
EGPRS850	128	2	24.63	18.88	38.45	PASS
EGPRS850	128	3	22.97	17.22	38.45	PASS
EGPRS850	128	4	21.92	16.17	38.45	PASS
EGPRS850	190	1	27.05	21.3	38.45	PASS
EGPRS850	190	2	24.34	18.59	38.45	PASS
EGPRS850	190	3	23.10	17.35	38.45	PASS
EGPRS850	190	4	21.84	16.09	38.45	PASS
EGPRS850	251	1	27.10	21.35	38.45	PASS
EGPRS850	251	2	24.68	18.93	38.45	PASS
EGPRS850	251	3	22.91	17.16	38.45	PASS
EGPRS850	251	4	21.91	16.16	38.45	PASS

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	29.96	28.86	33.00	PASS
GSM1900	661	---	29.94	28.84	33.00	PASS
GSM1900	810	---	29.91	28.81	33.00	PASS
EGPRS1900	512	1	26.25	25.15	33.00	PASS
EGPRS1900	512	2	23.39	22.29	33.00	PASS
EGPRS1900	512	3	21.79	20.69	33.00	PASS
EGPRS1900	512	4	20.12	19.02	33.00	PASS
EGPRS1900	661	1	26.26	25.16	33.00	PASS
EGPRS1900	661	2	23.45	22.35	33.00	PASS
EGPRS1900	661	3	21.34	20.24	33.00	PASS
EGPRS1900	661	4	20.11	19.01	33.00	PASS
EGPRS1900	810	1	26.14	25.04	33.00	PASS
EGPRS1900	810	2	23.59	22.49	33.00	PASS



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EGPRS1900	810	3	21.75	20.65	33.00	PASS
EGPRS1900	810	4	20.16	19.06	33.00	PASS

**ANT4:**

Band	Channel	Slot	Power(dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	33.61	22.59	38.45	PASS
GSM850	190	---	33.68	22.66	38.45	PASS
GSM850	251	---	33.57	22.55	38.45	PASS
EGPRS850	128	1	27.12	16.1	38.45	PASS
EGPRS850	128	2	24.48	13.46	38.45	PASS
EGPRS850	128	3	23.03	12.01	38.45	PASS
EGPRS850	128	4	21.91	10.89	38.45	PASS
EGPRS850	190	1	27.09	16.07	38.45	PASS
EGPRS850	190	2	24.57	13.55	38.45	PASS
EGPRS850	190	3	22.98	11.96	38.45	PASS
EGPRS850	190	4	21.87	10.85	38.45	PASS
EGPRS850	251	1	27.11	16.09	38.45	PASS
EGPRS850	251	2	24.49	13.47	38.45	PASS
EGPRS850	251	3	22.78	11.76	38.45	PASS
EGPRS850	251	4	21.89	10.87	38.45	PASS

**ANT5:**

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	29.59	20.72	33.00	PASS
GSM1900	661	---	29.45	20.58	33.00	PASS
GSM1900	810	---	29.64	20.77	33.00	PASS
EGPRS1900	512	1	25.92	17.05	33.00	PASS
EGPRS1900	512	2	23.12	14.25	33.00	PASS
EGPRS1900	512	3	21.32	12.45	33.00	PASS
EGPRS1900	512	4	19.83	10.96	33.00	PASS
EGPRS1900	661	1	25.79	16.92	33.00	PASS
EGPRS1900	661	2	23.06	14.19	33.00	PASS
EGPRS1900	661	3	21.25	12.38	33.00	PASS
EGPRS1900	661	4	19.98	11.11	33.00	PASS
EGPRS1900	810	1	25.84	16.97	33.00	PASS
EGPRS1900	810	2	22.89	14.02	33.00	PASS
EGPRS1900	810	3	21.34	12.47	33.00	PASS



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EGPRS1900	810	4	19.67	10.8	33.00	PASS
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Remark:

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

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$



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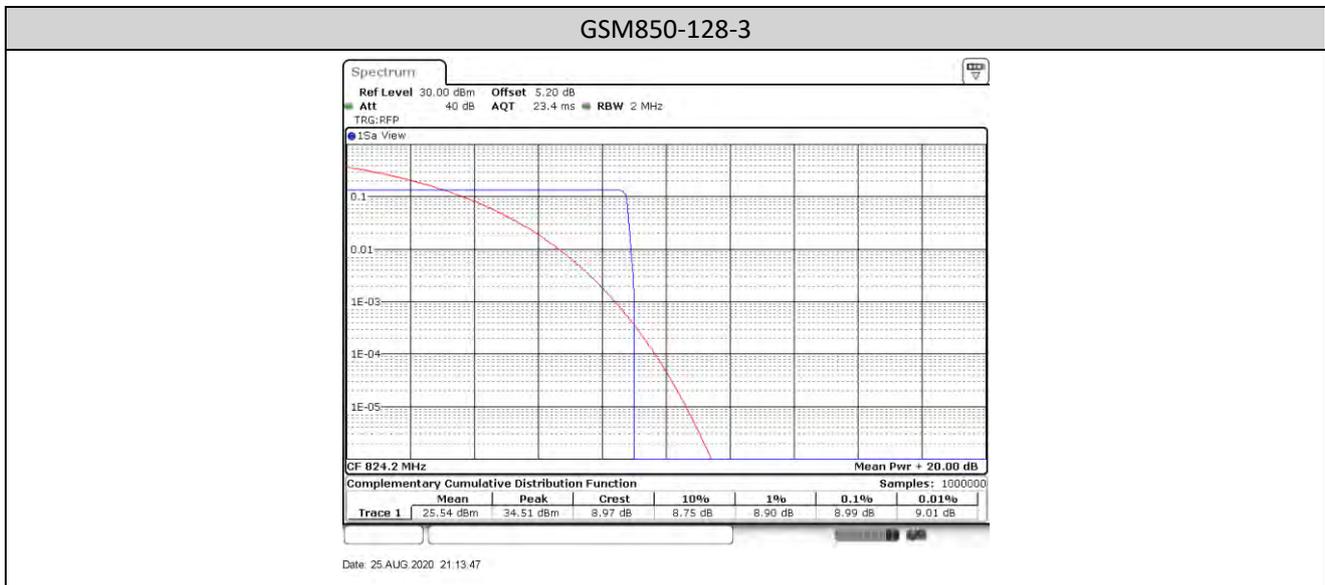
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## 2. Peak-to-Average Ratio

### 2.1. Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	8.99	13	PASS
GSM850	190	8.99	13	PASS
GSM850	251	8.99	13	PASS
EGPRS850	128	11.97	13	PASS
EGPRS850	190	11.88	13	PASS
EGPRS850	251	11.77	13	PASS
GSM1900	512	9.01	13	PASS
GSM1900	661	9.04	13	PASS
GSM1900	810	9.04	13	PASS
EGPRS1900	512	11.51	13	PASS
EGPRS1900	661	12.58	13	PASS
EGPRS1900	810	12.26	13	PASS

### 2.2. Part II - Test Plots

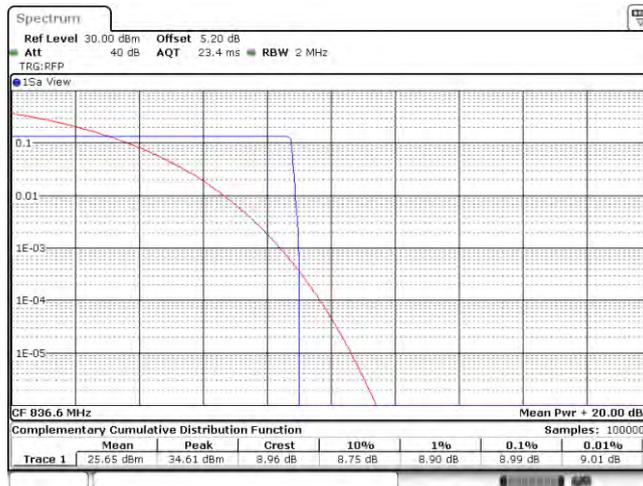


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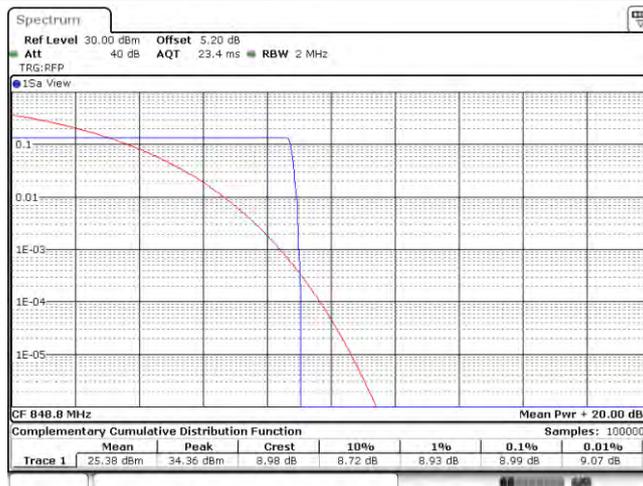
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**GSM850-190-3**



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**GSM850-251-3**



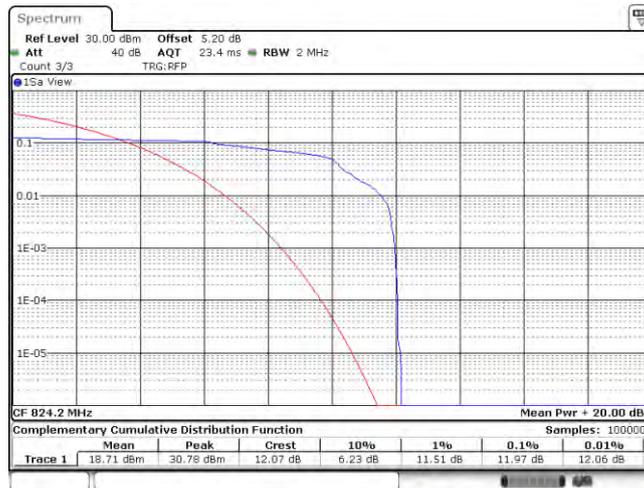
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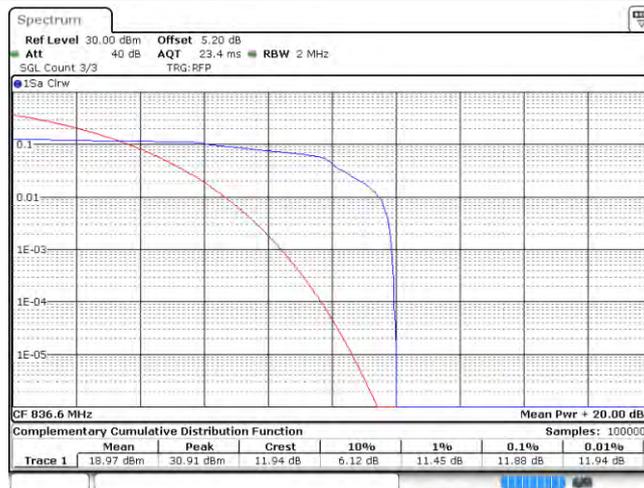
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**EGPRS850-128-8**



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**EGPRS850-190-8**

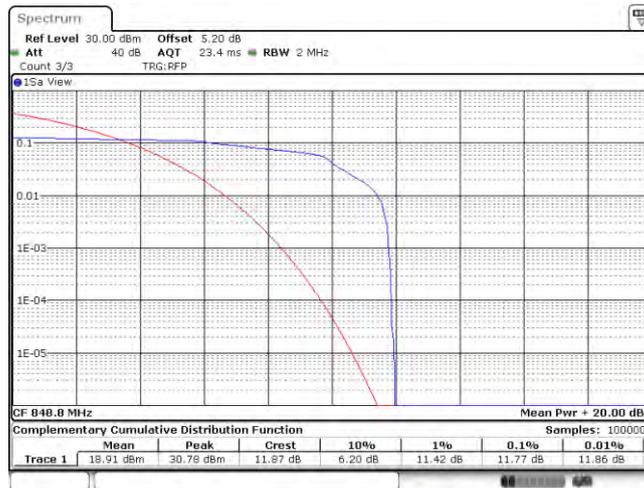


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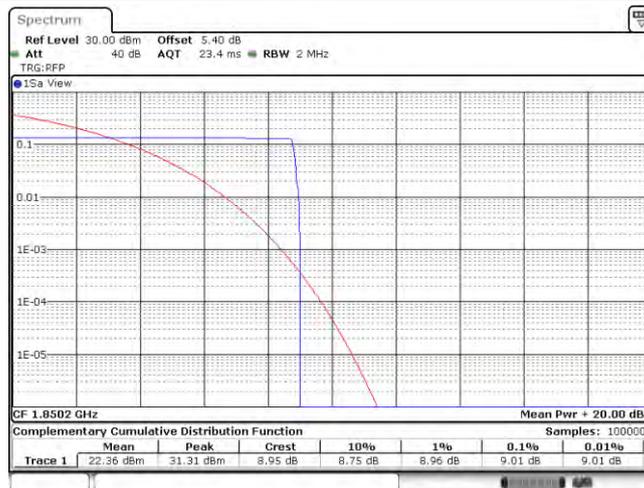
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**GSM1900-512-0**



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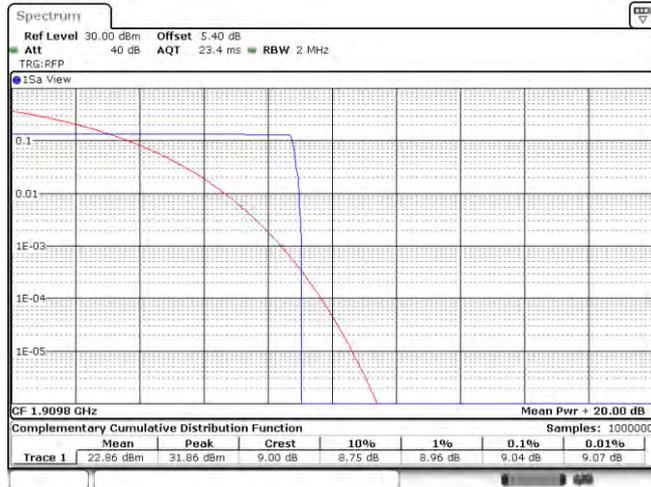
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**GSM1900-661-0**



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**GSM1900-810-0**



Date: 27 AUG 2020 11:46:54



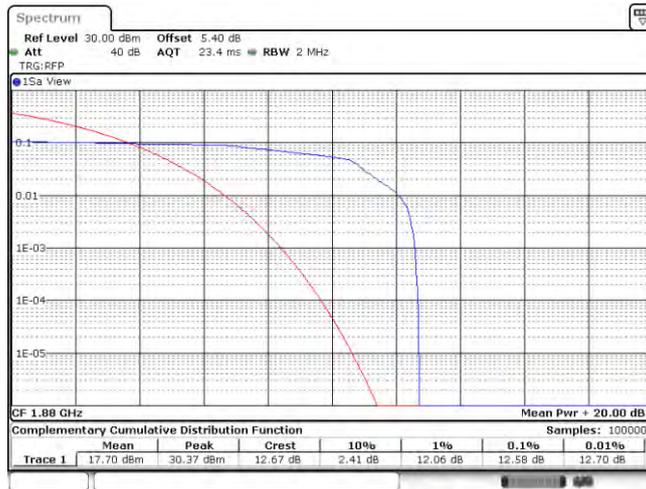
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EGPRS1900-810-2



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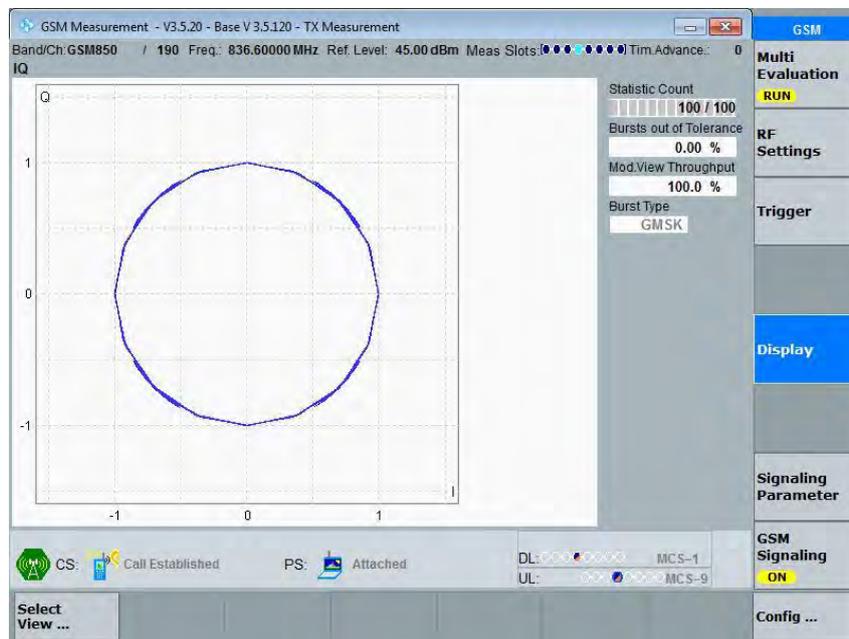
### 3. Modulation Characteristics

#### 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

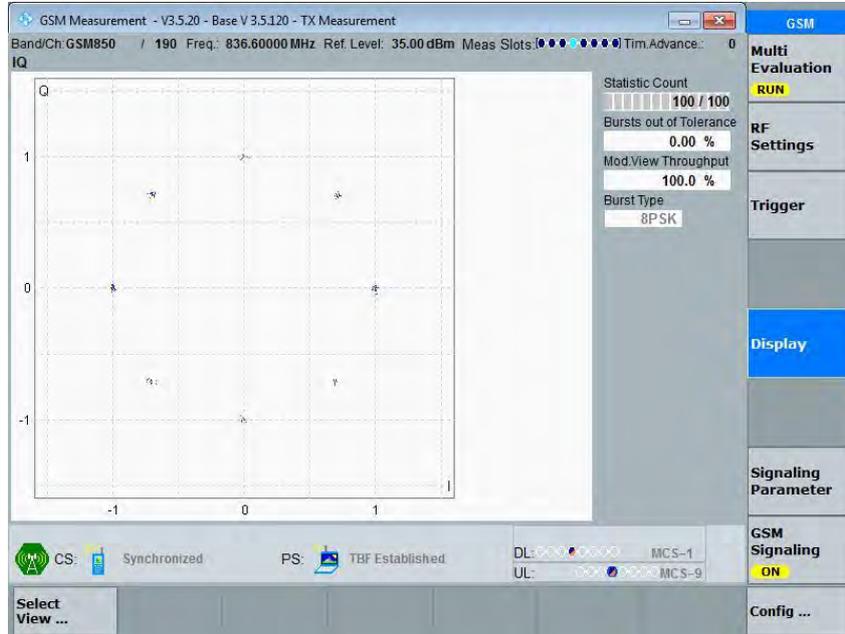


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**3.1.1.2. Test Mode = GSM/TM2**

**3.1.1.2.1. Test Channel = MCH**

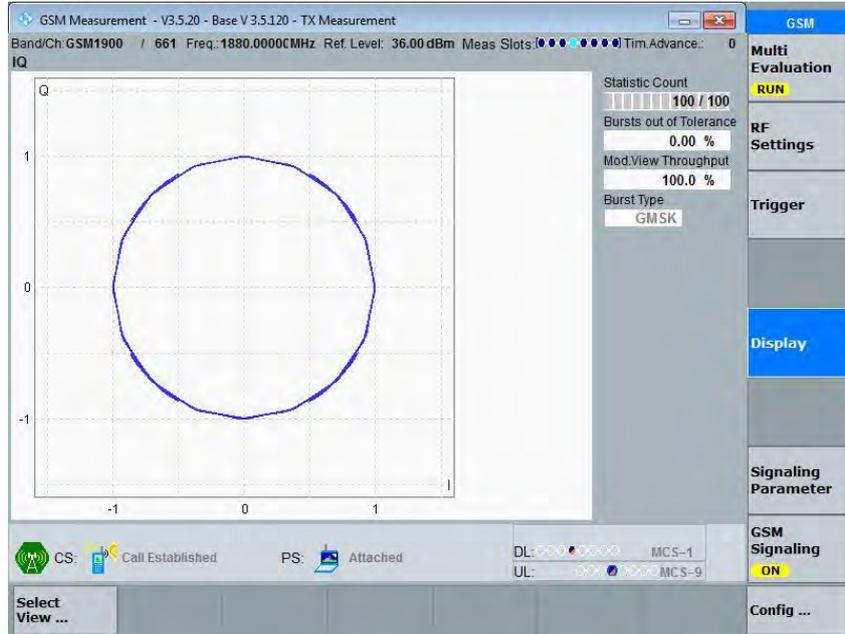


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**3.1.2. Test Band = GSM 1900**

**3.1.2.1. Test Mode = GSM/TM1**

**3.1.2.1.1. Test Channel = MCH**

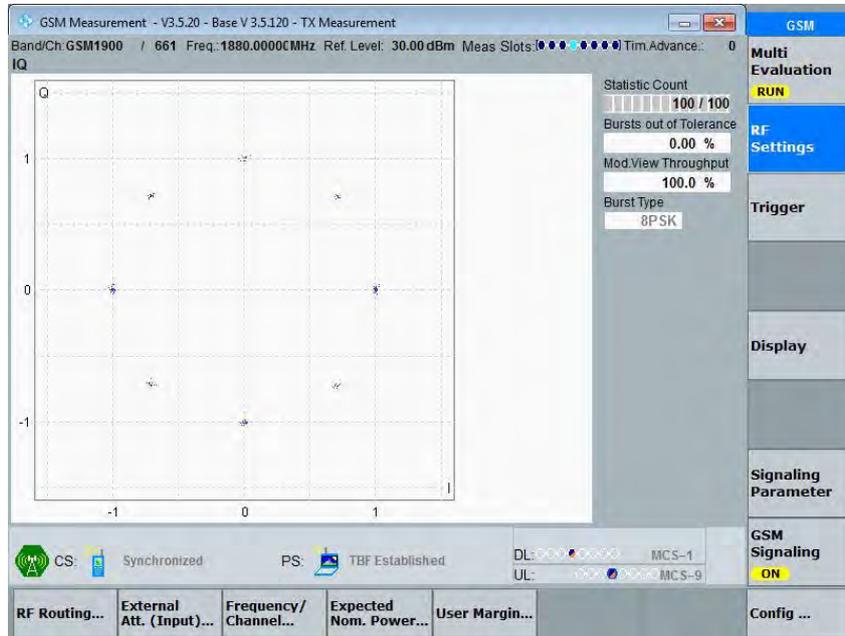


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**3.1.2.2. Test Mode = GSM/TM2**

**3.1.2.2.1. Test Channel = MCH**



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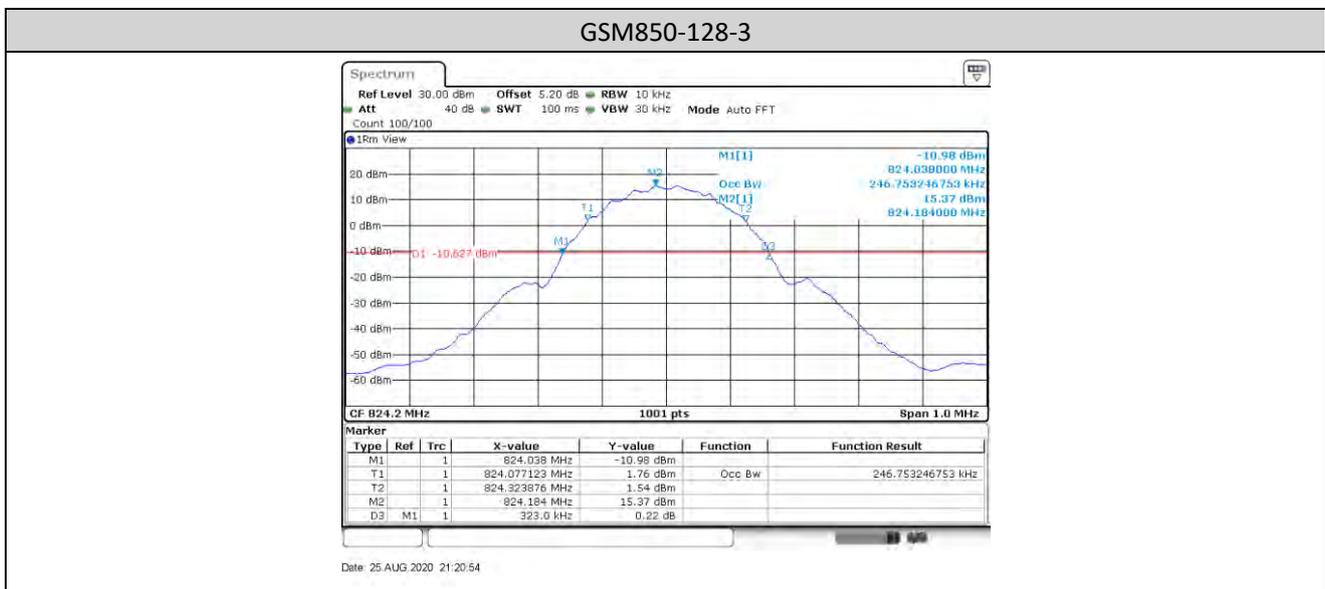


## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

Band	Channel	PCL	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	3	0.247	0.323	---	PASS
GSM850	190	3	0.247	0.324	---	PASS
GSM850	251	3	0.247	0.322	---	PASS
EGPRS850	128	8	0.244	0.317	---	PASS
EGPRS850	190	8	0.245	0.318	---	PASS
EGPRS850	251	8	0.246	0.320	---	PASS
GSM1900	512	0	0.246	0.323	---	PASS
GSM1900	661	0	0.246	0.323	---	PASS
GSM1900	810	0	0.246	0.321	---	PASS
EGPRS1900	512	2	0.244	0.320	---	PASS
EGPRS1900	661	2	0.243	0.317	---	PASS
EGPRS1900	810	2	0.244	0.319	---	PASS

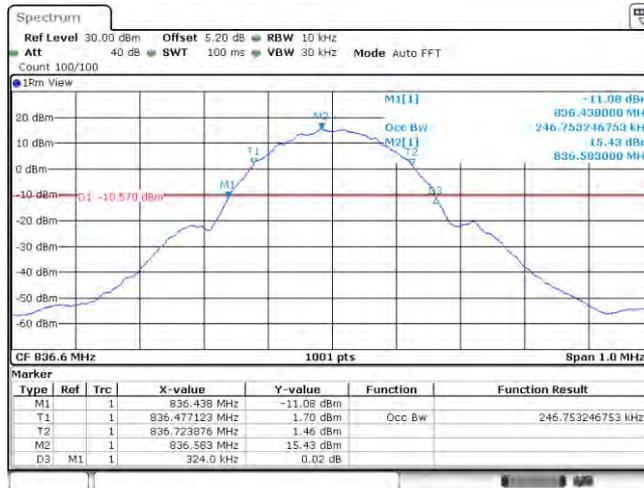
### 4.2. Test Plots



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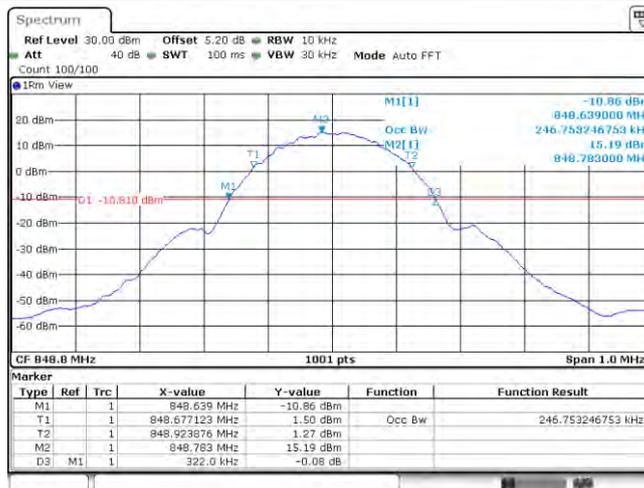
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**GSM850-190-3**



Date: 25 AUG 2020 21:21:13

**GSM850-251-3**

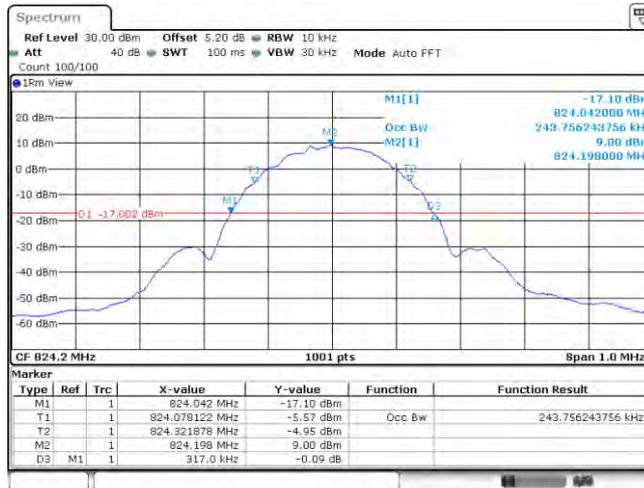


Date: 25 AUG 2020 21:21:32



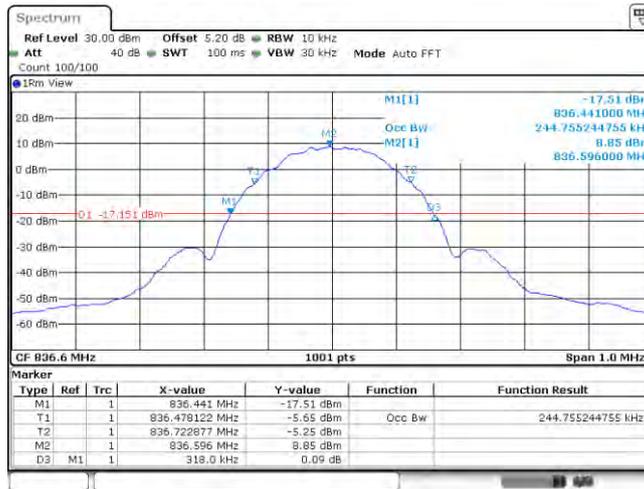
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**EGPRS850-128-8**



Date: 25 AUG 2020 21:50:47

**EGPRS850-190-8**

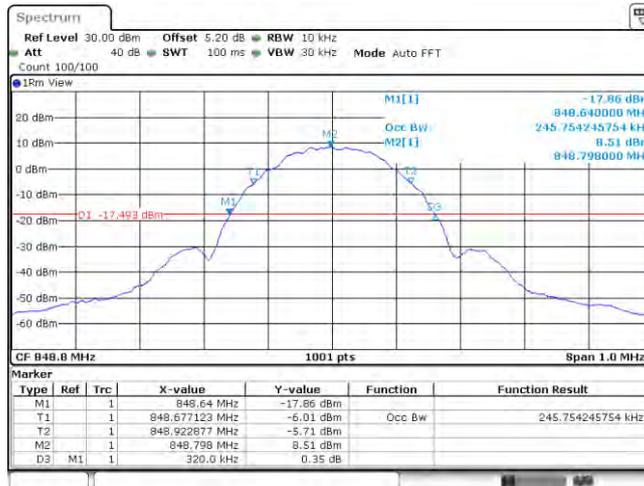


Date: 25 AUG 2020 21:51:07



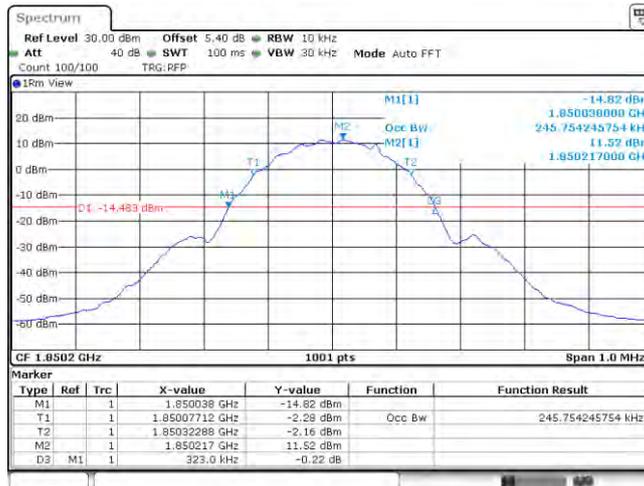
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**EGPRS850-251-8**



Date: 25 AUG 2020 21:51:26

**GSM1900-512-0**

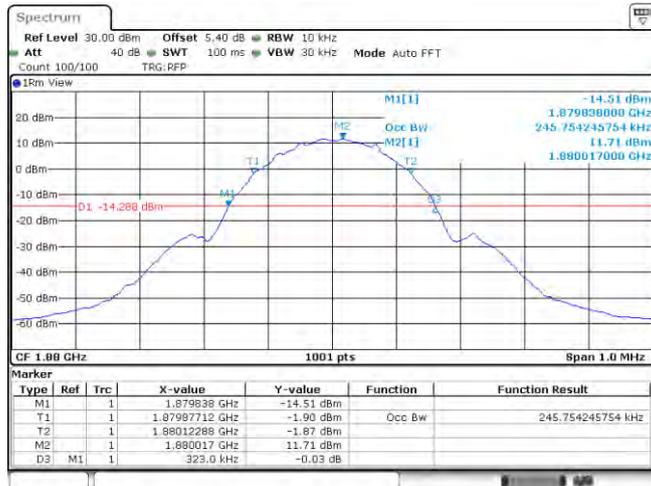


Date: 25 AUG 2020 21:55:24



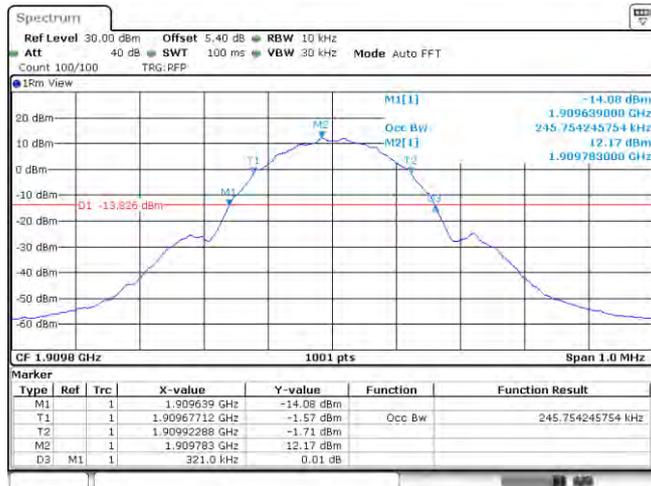
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**GSM1900-661-0**



Date: 25 AUG 2020 21:55:43

**GSM1900-810-0**

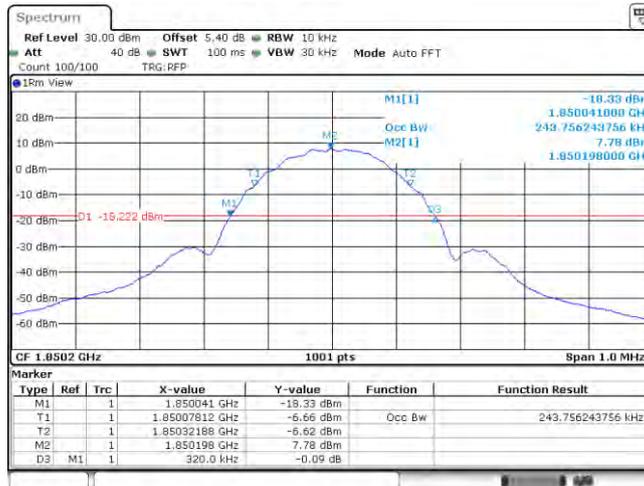


Date: 25 AUG 2020 21:56:02



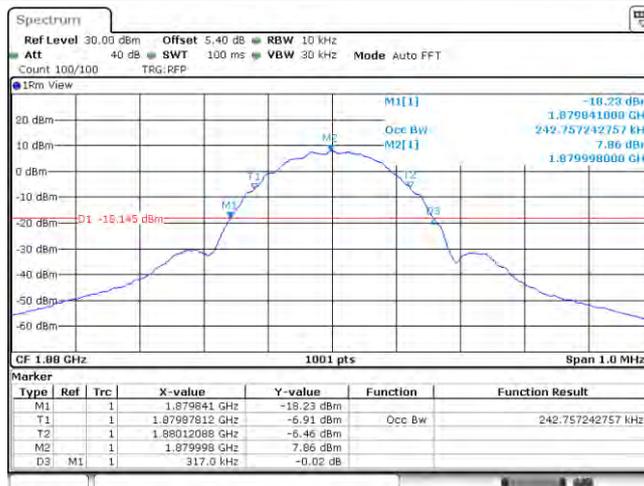
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**EGPRS1900-512-2**



Date: 25 AUG 2020 21:58:06

**EGPRS1900-661-2**



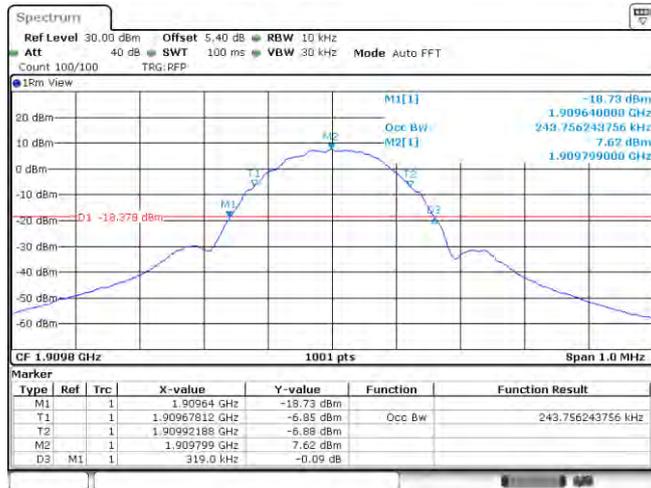
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## 5. Band Edge Compliance

### 5.1. Test Plots



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**EGPRS850-128-8-823.99**



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**EGPRS850-251-8-849.02**



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**GSM1900-512-0-1849.98**



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**GSM1900-810-0-1910.02**



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EGPRS1900-512-2-1849.99



Date: 25 AUG 2020 21:58:57

EGPRS1900-810-2-1910.03



Date: 25 AUG 2020 21:59:09



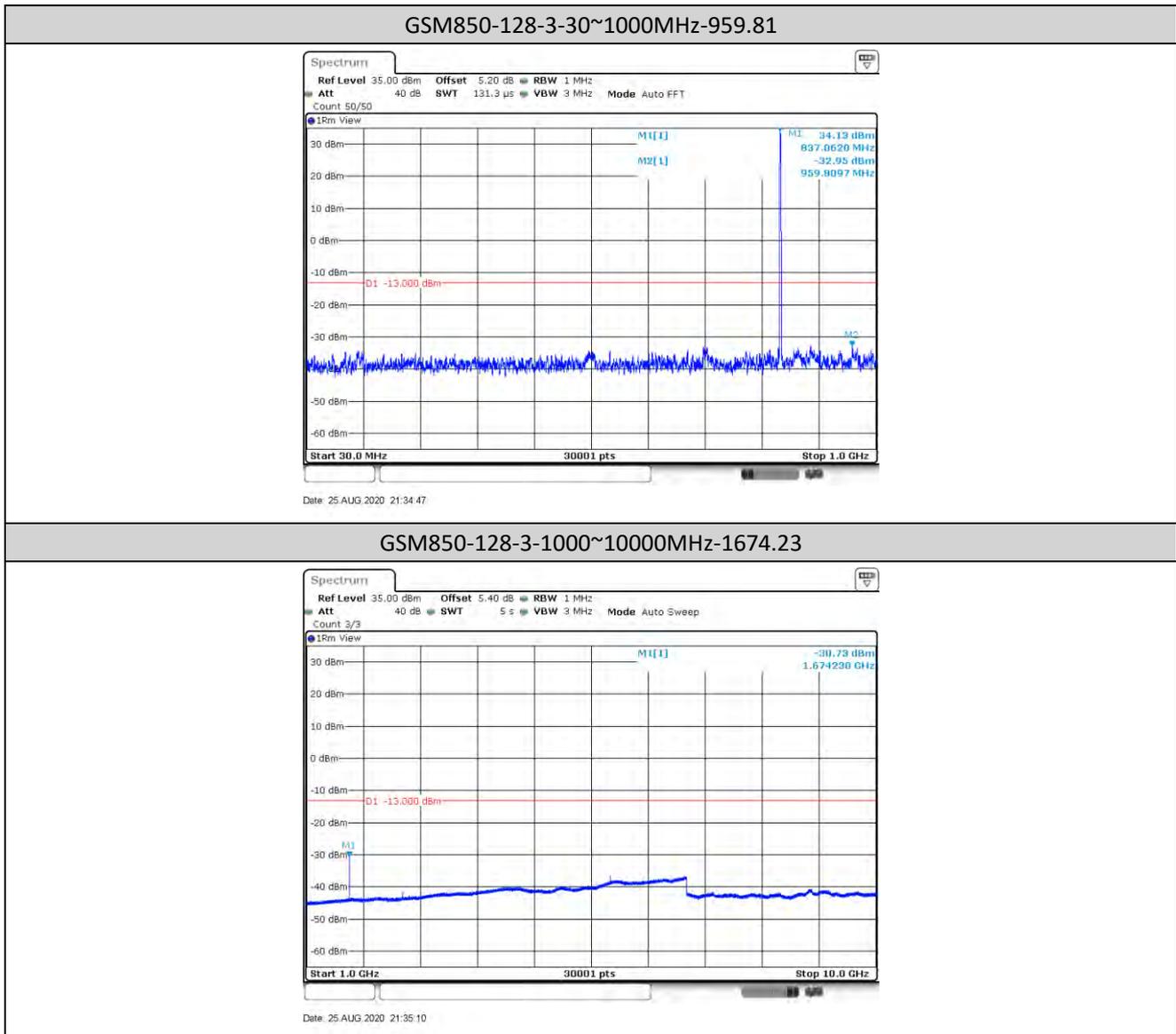
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## 6. Spurious Emission at Antenna Terminal

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.

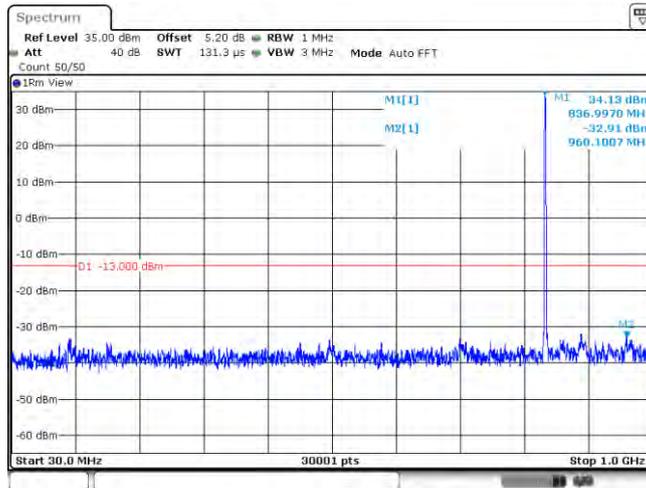
Remark2: only the worst case data displayed in this report.

### 6.1. Test Plots



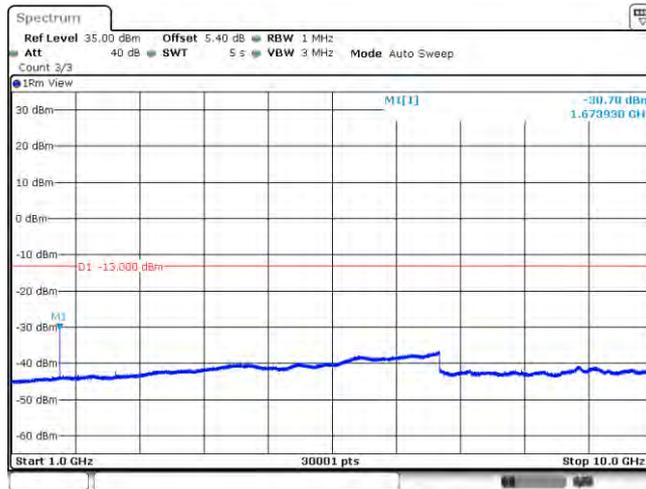
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**GSM850-190-3-30~1000MHz-960.1**



Date 25 AUG 2020 21:35:20

**GSM850-190-3-1000~10000MHz-1673.93**

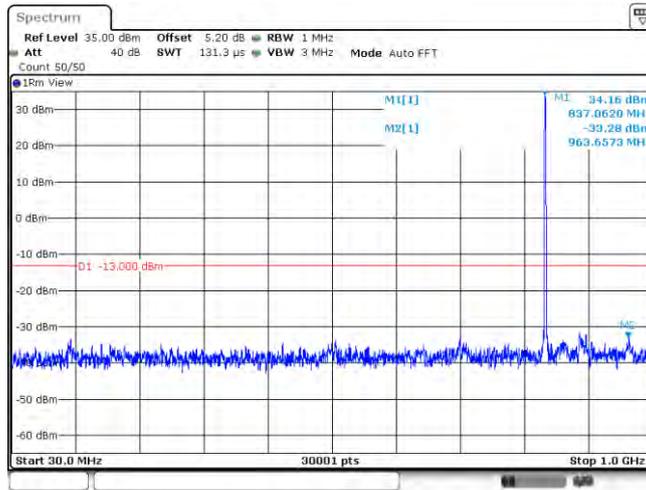


Date 25 AUG 2020 21:35:43

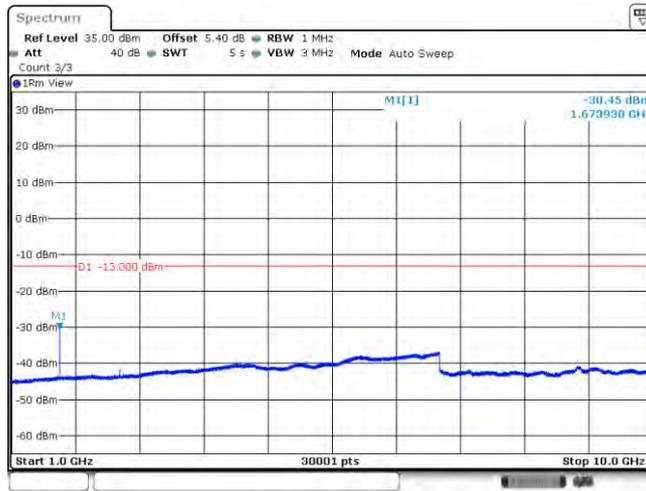


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**GSM850-251-3-30~1000MHz-963.66**

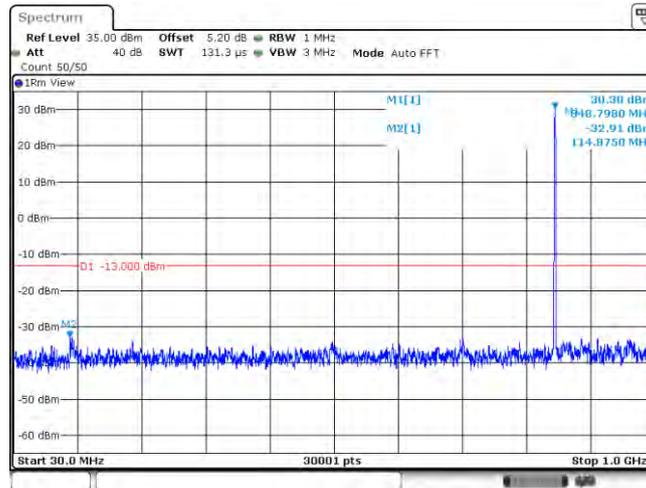


**GSM850-251-3-1000~10000MHz-1673.93**



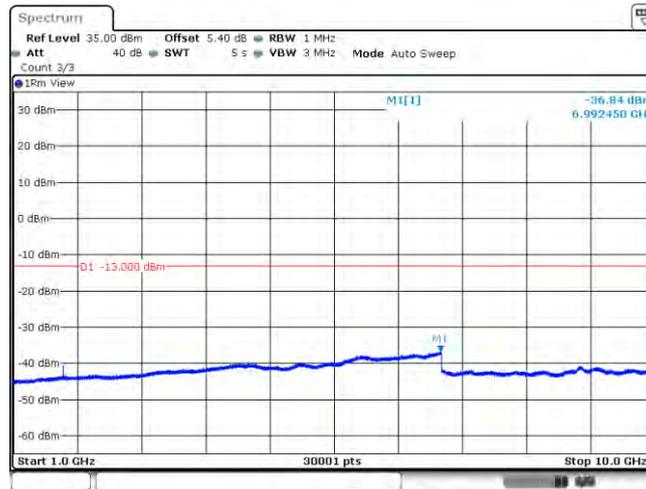
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**EGPRS850-128-8-30~1000MHz-114.88**



Date: 25 AUG 2020 21:39:16

**EGPRS850-128-8-1000~10000MHz-6992.45**

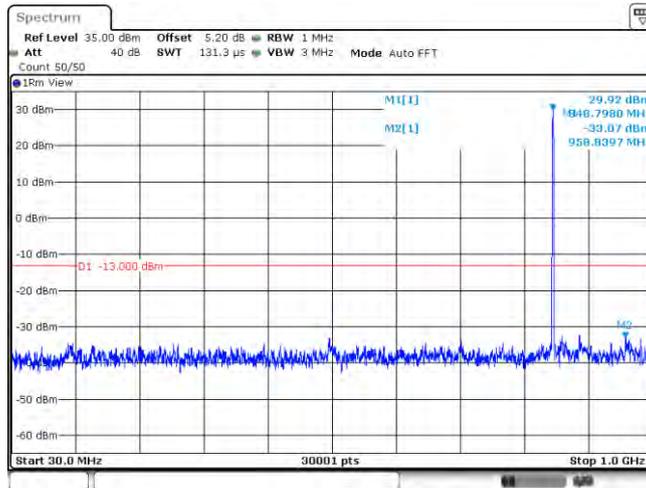


Date: 25 AUG 2020 21:39:41



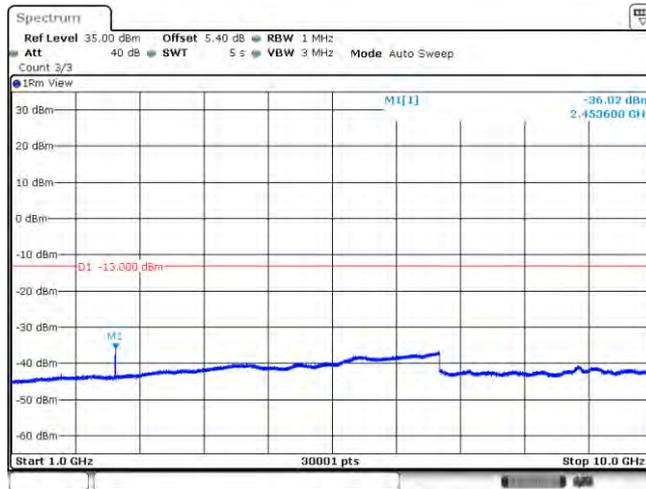
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**EGPRS850-190-8-30~1000MHz-958.84**



Date: 25 AUG 2020 21:39:52

**EGPRS850-190-8-1000~10000MHz-2453.6**

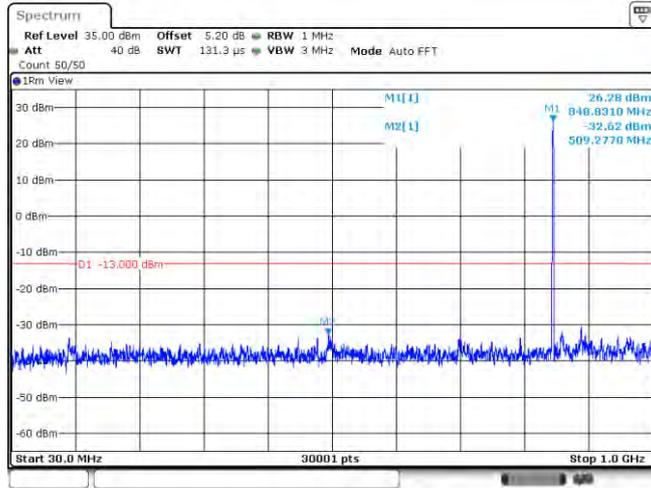


Date: 25 AUG 2020 21:40:15

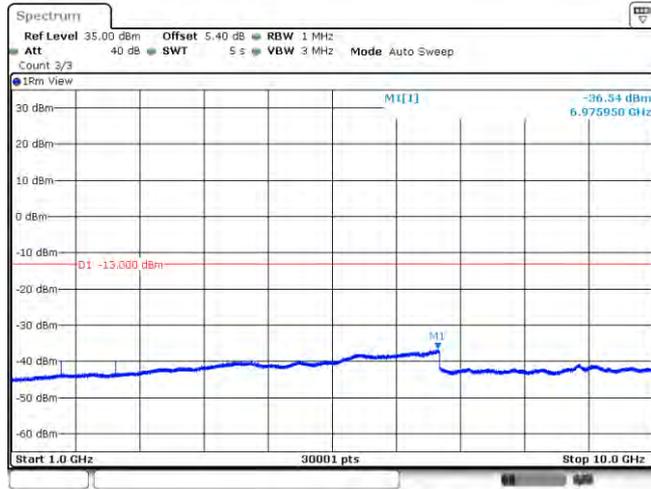


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EGPRS850-251-8-30~1000MHz-509.28

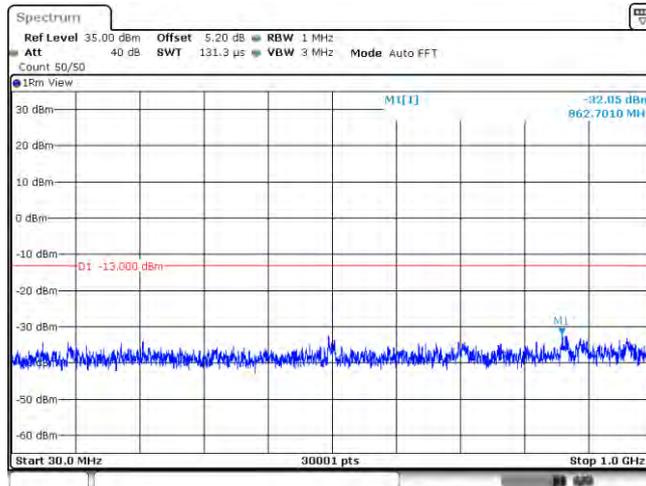


EGPRS850-251-8-1000~10000MHz-6975.95



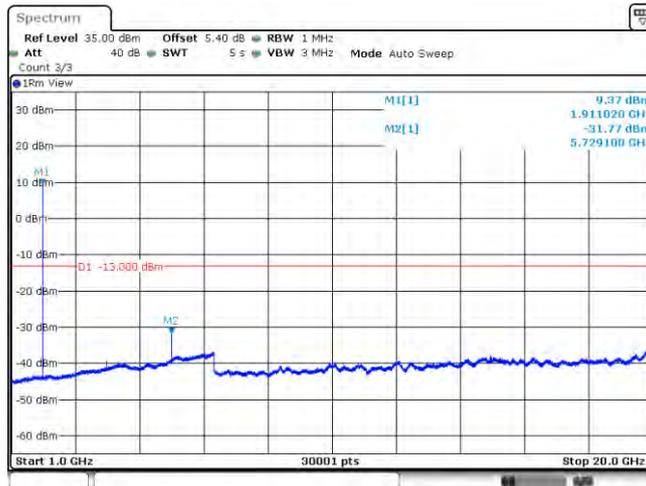
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**GSM1900-512-0-30~1000MHz-862.7**



Date 25 AUG 2020 22:08:59

**GSM1900-512-0-1000~20000MHz-5729.1**

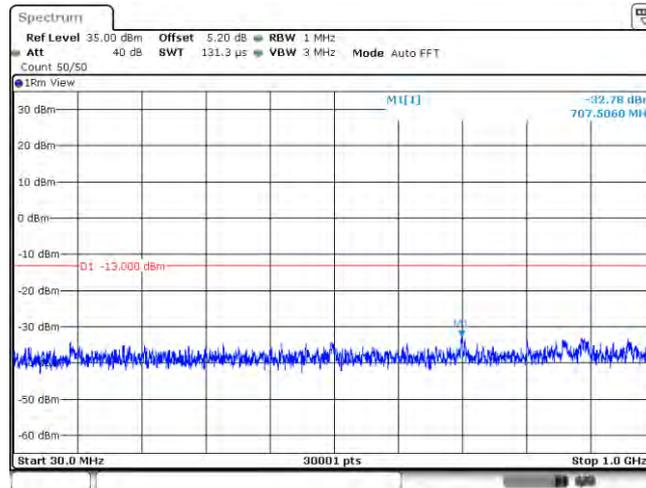


Date 25 AUG 2020 22:09:23



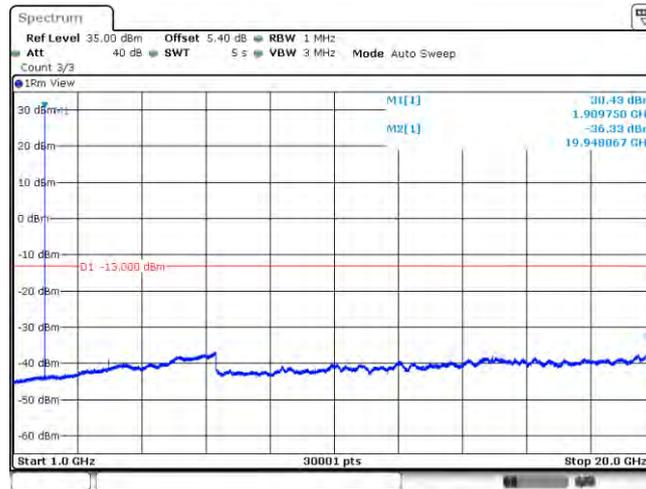
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**GSM1900-661-0-30~1000MHz-707.51**



Date: 25 AUG 2020 22:21:34

**GSM1900-661-0-1000~2000MHz-19948.07**

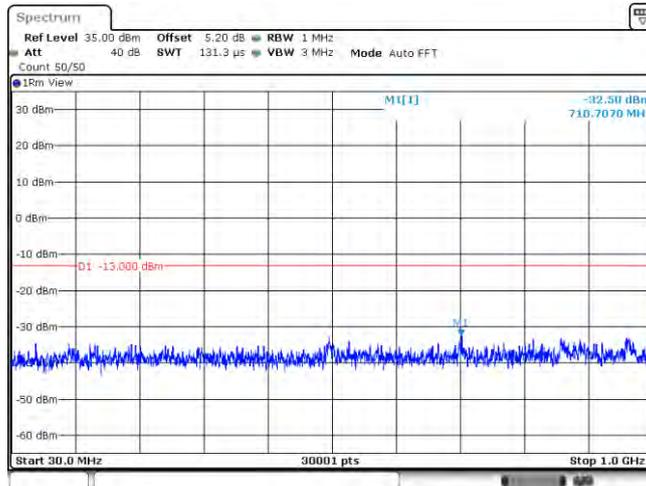


Date: 25 AUG 2020 22:21:58



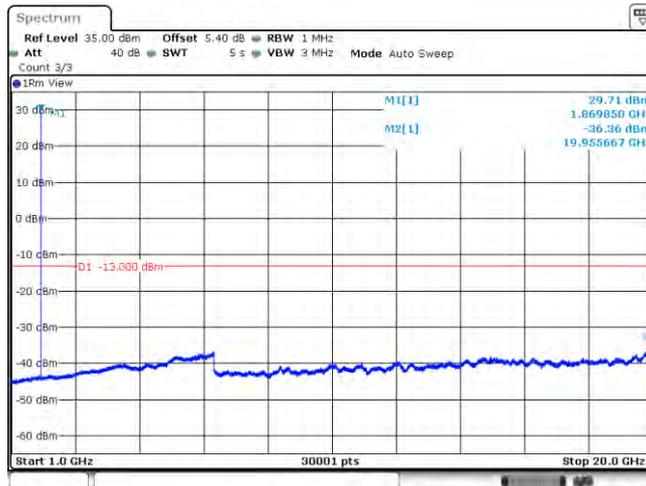
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**GSM1900-810-0-30~1000MHz-710.71**



Date 25 AUG 2020 22:10:06

**GSM1900-810-0-1000~2000MHz-19955.67**

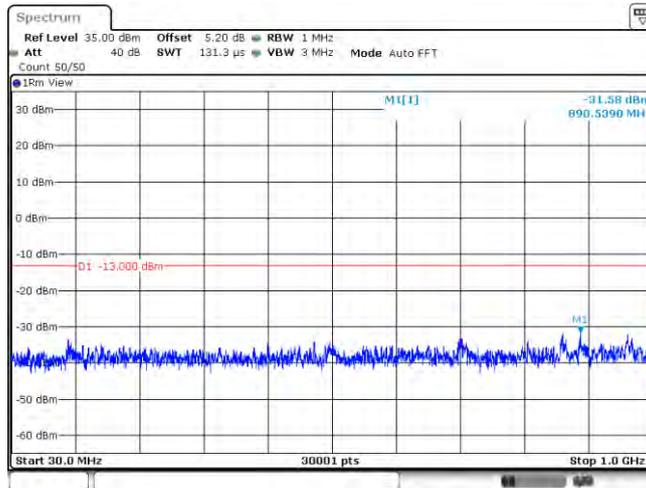


Date 25 AUG 2020 22:10:52



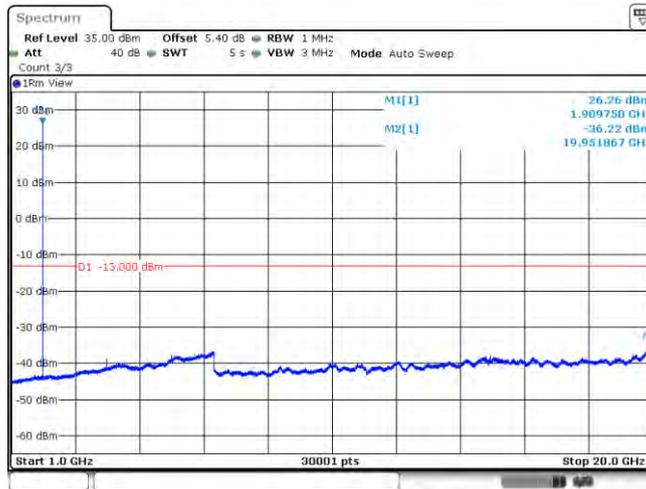
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EGPRS1900-512-2-30~1000MHz-890.54



Date: 25 AUG 2020 22:13:01

EGPRS1900-512-2-1000~20000MHz-19951.87

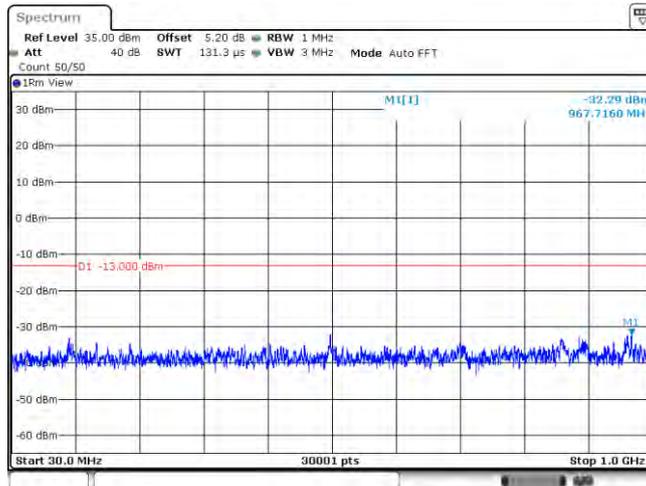


Date: 25 AUG 2020 22:13:24



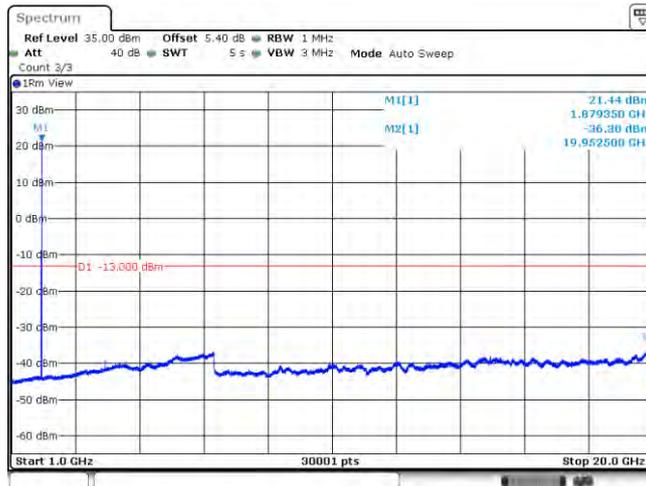
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EGPRS1900-661-2-30~1000MHz-967.72



Date 25 AUG 2020 22:13:35

EGPRS1900-661-2-1000~20000MHz-19952.5

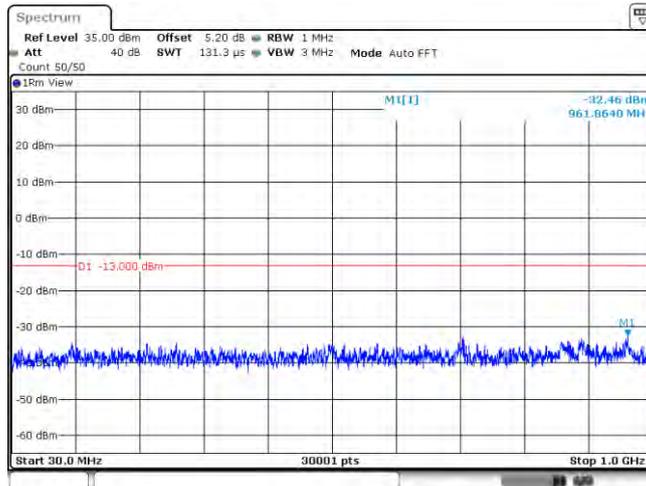


Date 25 AUG 2020 22:14:57



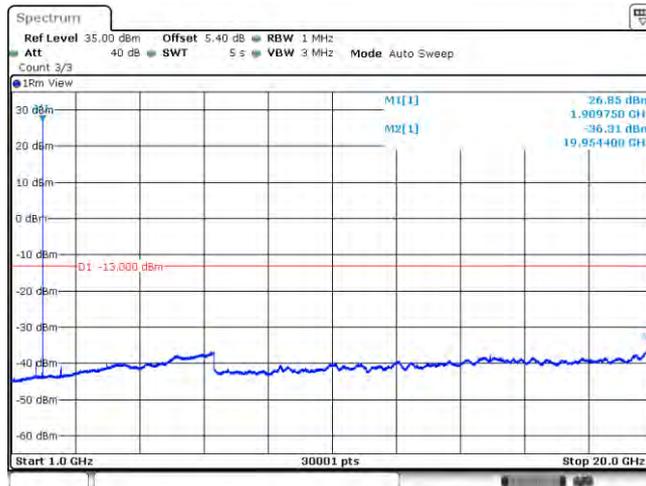
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EGPRS1900-810-2-30~1000MHz-961.86



Date: 25 AUG 2020 22:15:07

EGPRS1900-810-2-1000~20000MHz-19954.4



Date: 25 AUG 2020 22:17:10



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## 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
31.2126	-72.34	-13.00	59.34	Vertical
111.0476	-64.71	-13.00	51.71	Vertical
397.3574	-67.62	-13.00	54.62	Vertical
5184.0728	-61.44	-13.00	48.44	Vertical
7482.6494	-54.61	-13.00	41.61	Vertical
17995.4999	-39.86	-13.00	26.86	Vertical
42.6106	-64.38	-13.00	51.38	Horizontal
111.4841	-75.93	-13.00	62.93	Horizontal
228.5689	-68.31	-13.00	55.31	Horizontal
3700.0233	-56.45	-13.00	43.45	Horizontal
7996.1665	-55.93	-13.00	42.93	Horizontal
16393.9465	-43.71	-13.00	30.71	Horizontal

#### 7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
31.3581	-72.94	-13.00	59.94	Vertical
106.4883	-65.00	-13.00	52.00	Vertical
332.0731	-68.19	-13.00	55.19	Vertical
3760.0253	-60.89	-13.00	47.89	Vertical
7389.6463	-55.58	-13.00	42.58	Vertical
17997.9999	-39.95	-13.00	26.95	Vertical
41.3011	-63.88	-13.00	50.88	Horizontal
99.2615	-76.02	-13.00	63.02	Horizontal
235.1168	-67.50	-13.00	54.50	Horizontal
3760.0253	-57.55	-13.00	44.55	Horizontal
7484.6495	-56.18	-13.00	43.18	Horizontal
16391.9464	-44.05	-13.00	31.05	Horizontal



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**7.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
31.1156	-71.75	-13.00	58.75	Vertical
114.3457	-64.68	-13.00	51.68	Vertical
388.8694	-67.15	-13.00	54.15	Vertical
3598.0199	-61.65	-13.00	48.65	Vertical
8024.6675	-55.50	-13.00	42.50	Vertical
17996.4999	-39.51	-13.00	26.51	Vertical
36.0628	-63.52	-13.00	50.52	Horizontal
106.6338	-74.14	-13.00	61.14	Horizontal
230.4605	-67.54	-13.00	54.54	Horizontal
3629.0210	-61.11	-13.00	48.11	Horizontal
7462.1487	-56.13	-13.00	43.13	Horizontal
16389.4463	-43.65	-13.00	30.65	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
52.8931	-72.22	-13.00	59.22	Vertical
110.8050	-64.94	-13.00	51.94	Vertical
370.6810	-68.14	-13.00	55.14	Vertical
5076.0692	-61.64	-13.00	48.64	Vertical
8026.6676	-55.13	-13.00	42.13	Vertical
17999.0000	-39.56	-13.00	26.56	Vertical
42.2226	-63.82	-13.00	50.82	Horizontal
87.8634	-75.36	-13.00	62.36	Horizontal
235.2623	-68.14	-13.00	55.14	Horizontal
5558.5853	-61.00	-13.00	48.00	Horizontal
7486.1495	-55.93	-13.00	42.93	Horizontal
16392.9464	-43.62	-13.00	30.62	Horizontal

**7.2.2. Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.7219	-71.66	-13.00	58.66	Vertical
114.9277	-64.59	-13.00	51.59	Vertical
376.8893	-67.67	-13.00	54.67	Vertical
5048.5683	-61.66	-13.00	48.66	Vertical
7447.6483	-55.76	-13.00	42.76	Vertical
17999.0000	-39.68	-13.00	26.68	Vertical
39.9430	-64.38	-13.00	51.38	Horizontal
243.2652	-68.01	-13.00	55.01	Horizontal
655.6813	-63.35	-13.00	50.35	Horizontal
3760.0253	-59.50	-13.00	46.50	Horizontal
7995.6665	-55.70	-13.00	42.70	Horizontal
16399.9467	-43.52	-13.00	30.52	Horizontal



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**7.2.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
51.2926	-72.64	-13.00	59.64	Vertical
114.7822	-64.81	-13.00	51.81	Vertical
398.5699	-68.12	-13.00	55.12	Vertical
5060.5687	-61.50	-13.00	48.50	Vertical
7476.1492	-55.04	-13.00	42.04	Vertical
17999.0000	-39.81	-13.00	26.81	Vertical
44.5992	-64.43	-13.00	51.43	Horizontal
238.4149	-68.44	-13.00	55.44	Horizontal
497.8059	-66.61	-13.00	53.61	Horizontal
3819.5273	-60.45	-13.00	47.45	Horizontal
7484.6495	-56.11	-13.00	43.11	Horizontal
16389.9463	-43.75	-13.00	30.75	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
31.4066	-71.05	-13.00	58.05	Vertical
113.6182	-64.22	-13.00	51.22	Vertical
339.3970	-66.73	-13.00	53.73	Vertical
1648.5297	-28.43	-13.00	15.43	Vertical
2473.0946	-47.31	-13.00	34.31	Vertical
7457.9819	-55.49	-13.00	42.49	Vertical
45.0358	-63.98	-13.00	50.98	Horizontal
106.6338	-74.07	-13.00	61.07	Horizontal
237.8814	-67.62	-13.00	54.62	Horizontal
1648.1296	-27.81	-13.00	14.81	Horizontal
2473.0946	-47.94	-13.00	34.94	Horizontal
7359.2786	-55.88	-13.00	42.88	Horizontal

**7.3.2. Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
31.3581	-70.16	-13.00	57.16	Vertical
115.2673	-63.73	-13.00	50.73	Vertical
259.3195	-70.03	-13.00	57.03	Vertical
1672.9346	-31.01	-13.00	18.01	Vertical
2510.3021	-54.79	-13.00	41.79	Vertical
7459.3820	-55.27	-13.00	42.27	Vertical
44.6477	-64.00	-13.00	51.00	Horizontal
103.2872	-74.19	-13.00	61.19	Horizontal
242.5376	-66.51	-13.00	53.51	Horizontal
1672.9346	-30.87	-13.00	17.87	Horizontal
2509.9020	-53.74	-13.00	40.74	Horizontal
7471.5157	-55.82	-13.00	42.82	Horizontal



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**7.3.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
30.8245	-71.29	-13.00	58.29	Vertical
109.8835	-64.02	-13.00	51.02	Vertical
384.2132	-66.38	-13.00	53.38	Vertical
1697.3395	-29.40	-13.00	16.40	Vertical
2546.7093	-52.68	-13.00	39.68	Vertical
7358.8120	-54.86	-13.00	41.86	Vertical
41.8346	-63.82	-13.00	50.82	Horizontal
106.3428	-74.39	-13.00	61.39	Horizontal
241.3736	-66.30	-13.00	53.30	Horizontal
1697.7395	-28.44	-13.00	15.44	Horizontal
2546.3093	-52.64	-13.00	39.64	Horizontal
7478.2826	-55.74	-13.00	42.74	Horizontal



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**7.4. Test Band = GSM 850(Down Antenna)**

**7.4.1. Test Channel = LCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.9830	-71.60	-13.00	58.60	Vertical
110.9020	-64.17	-13.00	51.17	Vertical
324.1187	-68.53	-13.00	55.53	Vertical
1648.1296	-60.89	-13.00	47.89	Vertical
2606.3213	-56.69	-13.00	43.69	Vertical
7490.6497	-55.55	-13.00	42.55	Vertical
42.3196	-63.99	-13.00	50.99	Horizontal
83.6922	-74.42	-13.00	61.42	Horizontal
241.8586	-67.42	-13.00	54.42	Horizontal
1648.1296	-55.33	-13.00	42.33	Horizontal
2697.1394	-55.45	-13.00	42.45	Horizontal
7386.3462	-55.89	-13.00	42.89	Horizontal

**7.4.2. Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
50.3710	-72.07	-13.00	59.07	Vertical
109.3015	-64.16	-13.00	51.16	Vertical
303.0202	-68.38	-13.00	55.38	Vertical
1672.9346	-61.28	-13.00	48.28	Vertical
2460.2921	-57.37	-13.00	44.37	Vertical
7389.6130	-55.08	-13.00	42.08	Vertical
44.6962	-63.89	-13.00	50.89	Horizontal
99.7950	-73.49	-13.00	60.49	Horizontal
233.3707	-66.57	-13.00	53.57	Horizontal
1673.3347	-57.78	-13.00	44.78	Horizontal
2697.5395	-55.40	-13.00	42.40	Horizontal
7381.4460	-56.07	-13.00	43.07	Horizontal



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**7.4.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
45.1328	-72.12	-13.00	59.12	Vertical
106.6338	-64.26	-13.00	51.26	Vertical
293.3682	-68.81	-13.00	55.81	Vertical
1697.3395	-60.52	-13.00	47.52	Vertical
2587.1174	-56.12	-13.00	43.12	Vertical
7395.6799	-55.66	-13.00	42.66	Vertical
45.1813	-64.03	-13.00	51.03	Horizontal
97.4669	-75.42	-13.00	62.42	Horizontal
245.3508	-67.15	-13.00	54.15	Horizontal
1697.3395	-57.03	-13.00	44.03	Horizontal
2708.3417	-55.35	-13.00	42.35	Horizontal
7478.7493	-55.78	-13.00	42.78	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.



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3)

## 8. Frequency Stability

### 8.1. Frequency Error Vs Voltage

Band	Channel	PCL	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
			Voltage [Vdc]	Temperature (°C)				
GSM850	128	3	VL	NT	-26.25	-0.031849	±2.5	PASS
GSM850	128	3	VN	NT	-25.25	-0.030636	±2.5	PASS
GSM850	128	3	VH	NT	-23.54	-0.028561	±2.5	PASS
GSM850	190	3	VL	NT	-26.22	-0.031341	±2.5	PASS
GSM850	190	3	VN	NT	-22.54	-0.026942	±2.5	PASS
GSM850	190	3	VH	NT	-24.83	-0.029680	±2.5	PASS
GSM850	251	3	VL	NT	-26.47	-0.031185	±2.5	PASS
GSM850	251	3	VN	NT	-31.90	-0.037582	±2.5	PASS
GSM850	251	3	VH	NT	-27.60	-0.032516	±2.5	PASS
EGPRS850	128	8	VL	NT	-2.26	-0.002742	±2.5	PASS
EGPRS850	128	8	VN	NT	-1.68	-0.002038	±2.5	PASS
EGPRS850	128	8	VH	NT	-2.45	-0.002973	±2.5	PASS
EGPRS850	190	8	VL	NT	-4.04	-0.004829	±2.5	PASS
EGPRS850	190	8	VN	NT	-3.00	-0.003586	±2.5	PASS
EGPRS850	190	8	VH	NT	-4.68	-0.005594	±2.5	PASS
EGPRS850	251	8	VL	NT	-5.62	-0.006621	±2.5	PASS
EGPRS850	251	8	VN	NT	-6.55	-0.007717	±2.5	PASS
EGPRS850	251	8	VH	NT	-6.65	-0.007835	±2.5	PASS
GSM1900	512	0	VL	NT	-28.73	-0.015528	±2.5	PASS
GSM1900	512	0	VN	NT	-27.15	-0.014674	±2.5	PASS
GSM1900	512	0	VH	NT	-24.31	-0.013139	±2.5	PASS
GSM1900	661	0	VL	NT	-28.38	-0.015096	±2.5	PASS
GSM1900	661	0	VN	NT	-25.60	-0.013617	±2.5	PASS
GSM1900	661	0	VH	NT	-27.06	-0.014394	±2.5	PASS
GSM1900	810	0	VL	NT	-28.02	-0.014672	±2.5	PASS
GSM1900	810	0	VN	NT	-21.63	-0.011326	±2.5	PASS
GSM1900	810	0	VH	NT	-26.73	-0.013996	±2.5	PASS
EGPRS1900	512	2	VL	NT	-8.88	-0.004799	±2.5	PASS
EGPRS1900	512	2	VN	NT	-8.65	-0.004675	±2.5	PASS
EGPRS1900	512	2	VH	NT	-9.10	-0.004918	±2.5	PASS



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EGPRS1900	661	2	VL	NT	-7.55	-0.004016	±2.5	PASS
EGPRS1900	661	2	VN	NT	-8.14	-0.004330	±2.5	PASS
EGPRS1900	661	2	VH	NT	-6.72	-0.003574	±2.5	PASS
EGPRS1900	810	2	VL	NT	-9.75	-0.005105	±2.5	PASS
EGPRS1900	810	2	VN	NT	-9.78	-0.005121	±2.5	PASS
EGPRS1900	810	2	VH	NT	-10.78	-0.005645	±2.5	PASS

## 8.2. Frequency Error Vs Temperature

Band	Channel	PCL	Voltage [Vdc]	Temperature			Limit (ppm)	Verdict
				Temperature (°C)	Deviation (Hz)	Deviation (ppm)		
GSM850	128	3	NV	-30	-24.96	-0.030284	±2.5	PASS
GSM850	128	3	NV	-20	-27.70	-0.033608	±2.5	PASS
GSM850	128	3	NV	-10	-22.37	-0.027141	±2.5	PASS
GSM850	128	3	NV	0	-23.18	-0.028124	±2.5	PASS
GSM850	128	3	NV	10	-24.41	-0.029617	±2.5	PASS
GSM850	128	3	NV	20	-24.41	-0.029617	±2.5	PASS
GSM850	128	3	NV	30	-26.12	-0.031691	±2.5	PASS
GSM850	128	3	NV	40	-23.31	-0.028282	±2.5	PASS
GSM850	128	3	NV	50	-23.31	-0.028282	±2.5	PASS
GSM850	190	3	NV	-30	-23.02	-0.027516	±2.5	PASS
GSM850	190	3	NV	-20	-26.99	-0.032262	±2.5	PASS
GSM850	190	3	NV	-10	-25.18	-0.030098	±2.5	PASS
GSM850	190	3	NV	0	-24.70	-0.029524	±2.5	PASS
GSM850	190	3	NV	10	-30.45	-0.036397	±2.5	PASS
GSM850	190	3	NV	20	-28.25	-0.033768	±2.5	PASS
GSM850	190	3	NV	30	-26.31	-0.031449	±2.5	PASS
GSM850	190	3	NV	40	-27.51	-0.032883	±2.5	PASS
GSM850	190	3	NV	50	-26.28	-0.031413	±2.5	PASS
GSM850	251	3	NV	-30	-25.25	-0.029748	±2.5	PASS
GSM850	251	3	NV	-20	-27.57	-0.032481	±2.5	PASS
GSM850	251	3	NV	-10	-26.99	-0.031798	±2.5	PASS
GSM850	251	3	NV	0	-26.25	-0.030926	±2.5	PASS
GSM850	251	3	NV	10	-25.73	-0.030313	±2.5	PASS
GSM850	251	3	NV	20	-25.93	-0.030549	±2.5	PASS
GSM850	251	3	NV	30	-26.73	-0.031492	±2.5	PASS
GSM850	251	3	NV	40	-27.09	-0.031916	±2.5	PASS



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GSM850	251	3	NV	50	-30.32	-0.035721	±2.5	PASS
EGPRS850	128	8	NV	-30	-2.16	-0.002621	±2.5	PASS
EGPRS850	128	8	NV	-20	-2.58	-0.003130	±2.5	PASS
EGPRS850	128	8	NV	-10	-2.42	-0.002936	±2.5	PASS
EGPRS850	128	8	NV	0	-3.45	-0.004186	±2.5	PASS
EGPRS850	128	8	NV	10	-1.19	-0.001444	±2.5	PASS
EGPRS850	128	8	NV	20	-2.91	-0.003531	±2.5	PASS
EGPRS850	128	8	NV	30	-1.90	-0.002305	±2.5	PASS
EGPRS850	128	8	NV	40	-2.45	-0.002973	±2.5	PASS
EGPRS850	128	8	NV	50	-3.33	-0.004040	±2.5	PASS
EGPRS850	190	8	NV	-30	-5.55	-0.006634	±2.5	PASS
EGPRS850	190	8	NV	-20	-5.33	-0.006371	±2.5	PASS
EGPRS850	190	8	NV	-10	-5.00	-0.005977	±2.5	PASS
EGPRS850	190	8	NV	0	-4.62	-0.005522	±2.5	PASS
EGPRS850	190	8	NV	10	-5.20	-0.006216	±2.5	PASS
EGPRS850	190	8	NV	20	-5.39	-0.006443	±2.5	PASS
EGPRS850	190	8	NV	30	-5.36	-0.006407	±2.5	PASS
EGPRS850	190	8	NV	40	-7.46	-0.008917	±2.5	PASS
EGPRS850	190	8	NV	50	-5.29	-0.006323	±2.5	PASS
EGPRS850	251	8	NV	-30	-4.91	-0.005785	±2.5	PASS
EGPRS850	251	8	NV	-20	-4.81	-0.005667	±2.5	PASS
EGPRS850	251	8	NV	-10	-3.91	-0.004607	±2.5	PASS
EGPRS850	251	8	NV	0	-5.75	-0.006774	±2.5	PASS
EGPRS850	251	8	NV	10	-6.10	-0.007187	±2.5	PASS
EGPRS850	251	8	NV	20	-4.94	-0.005820	±2.5	PASS
EGPRS850	251	8	NV	30	-5.29	-0.006232	±2.5	PASS
EGPRS850	251	8	NV	40	-4.75	-0.005596	±2.5	PASS
EGPRS850	251	8	NV	50	-5.52	-0.006503	±2.5	PASS
GSM1900	512	0	NV	-30	-23.79	-0.012858	±2.5	PASS
GSM1900	512	0	NV	-20	-25.80	-0.013944	±2.5	PASS
GSM1900	512	0	NV	-10	-27.15	-0.014674	±2.5	PASS
GSM1900	512	0	NV	0	-25.63	-0.013853	±2.5	PASS
GSM1900	512	0	NV	10	-26.76	-0.014463	±2.5	PASS
GSM1900	512	0	NV	20	-28.86	-0.015598	±2.5	PASS
GSM1900	512	0	NV	30	-26.09	-0.014101	±2.5	PASS
GSM1900	512	0	NV	40	-29.06	-0.015706	±2.5	PASS
GSM1900	512	0	NV	50	-23.47	-0.012685	±2.5	PASS



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GSM1900	661	0	NV	-30	-24.96	-0.013277	±2.5	PASS
GSM1900	661	0	NV	-20	-23.96	-0.012745	±2.5	PASS
GSM1900	661	0	NV	-10	-24.09	-0.012814	±2.5	PASS
GSM1900	661	0	NV	0	-26.09	-0.013878	±2.5	PASS
GSM1900	661	0	NV	10	-22.50	-0.011968	±2.5	PASS
GSM1900	661	0	NV	20	-27.02	-0.014372	±2.5	PASS
GSM1900	661	0	NV	30	-26.38	-0.014032	±2.5	PASS
GSM1900	661	0	NV	40	-25.12	-0.013362	±2.5	PASS
GSM1900	661	0	NV	50	-28.57	-0.015197	±2.5	PASS
GSM1900	810	0	NV	-30	-34.61	-0.018122	±2.5	PASS
GSM1900	810	0	NV	-20	-22.12	-0.011582	±2.5	PASS
GSM1900	810	0	NV	-10	-27.48	-0.014389	±2.5	PASS
GSM1900	810	0	NV	0	-26.64	-0.013949	±2.5	PASS
GSM1900	810	0	NV	10	-28.48	-0.014913	±2.5	PASS
GSM1900	810	0	NV	20	-23.63	-0.012373	±2.5	PASS
GSM1900	810	0	NV	30	-25.31	-0.013253	±2.5	PASS
GSM1900	810	0	NV	40	-29.32	-0.015352	±2.5	PASS
GSM1900	810	0	NV	50	-28.83	-0.015096	±2.5	PASS
EGPRS1900	512	2	NV	-30	-10.36	-0.005599	±2.5	PASS
EGPRS1900	512	2	NV	-20	-10.75	-0.005810	±2.5	PASS
EGPRS1900	512	2	NV	-10	-10.62	-0.005740	±2.5	PASS
EGPRS1900	512	2	NV	0	-8.14	-0.004400	±2.5	PASS
EGPRS1900	512	2	NV	10	-7.88	-0.004259	±2.5	PASS
EGPRS1900	512	2	NV	20	-8.39	-0.004535	±2.5	PASS
EGPRS1900	512	2	NV	30	-9.07	-0.004902	±2.5	PASS
EGPRS1900	512	2	NV	40	-6.94	-0.003751	±2.5	PASS
EGPRS1900	512	2	NV	50	-6.81	-0.003681	±2.5	PASS
EGPRS1900	661	2	NV	-30	-8.30	-0.004415	±2.5	PASS
EGPRS1900	661	2	NV	-20	-8.10	-0.004309	±2.5	PASS
EGPRS1900	661	2	NV	-10	-6.55	-0.003484	±2.5	PASS
EGPRS1900	661	2	NV	0	-5.46	-0.002904	±2.5	PASS
EGPRS1900	661	2	NV	10	-7.72	-0.004106	±2.5	PASS
EGPRS1900	661	2	NV	20	-9.14	-0.004862	±2.5	PASS
EGPRS1900	661	2	NV	30	-4.78	-0.002543	±2.5	PASS
EGPRS1900	661	2	NV	40	-6.07	-0.003229	±2.5	PASS
EGPRS1900	661	2	NV	50	-6.39	-0.003399	±2.5	PASS
EGPRS1900	810	2	NV	-30	-9.27	-0.004854	±2.5	PASS



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EGPRS1900	810	2	NV	-20	-8.75	-0.004582	±2.5	PASS
EGPRS1900	810	2	NV	-10	-6.81	-0.003566	±2.5	PASS
EGPRS1900	810	2	NV	0	-7.62	-0.003990	±2.5	PASS
EGPRS1900	810	2	NV	10	-10.04	-0.005257	±2.5	PASS
EGPRS1900	810	2	NV	20	-9.43	-0.004938	±2.5	PASS
EGPRS1900	810	2	NV	30	-9.62	-0.005037	±2.5	PASS
EGPRS1900	810	2	NV	40	-6.17	-0.003231	±2.5	PASS
EGPRS1900	810	2	NV	50	-7.85	-0.004110	±2.5	PASS

The End



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