



# Appendix B

## GSM 850 & 1900



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## CONTENT

	Page
1. EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA .....	4
1.1. Test Result.....	4
2. PEAK-TO-AVERAGE RATIO .....	6
2.1. Test Result.....	6
2.2. Part II - Test Plots.....	7
3. MODULATION CHARACTERISTICS .....	13
3.1. For GSM .....	13
3.1.1. Test Band = GSM 850 .....	13
3.1.1.1. Test Mode = GSM/TM1.....	13
3.1.1.1.1. Test Channel = MCH.....	13
3.1.1.2. Test Mode = GSM/TM2.....	14
3.1.1.2.1. Test Channel = MCH.....	14
3.1.2. Test Band = GSM 1900 .....	15
3.1.2.1. Test Mode = GSM/TM1.....	15
3.1.2.1.1. Test Channel = MCH.....	15
3.1.2.2. Test Mode = GSM/TM2.....	16
3.1.2.2.1. Test Channel = MCH.....	16
4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH .....	17
4.1. Test Result.....	17
4.2. Test Plots.....	17
5. BAND EDGE COMPLIANCE .....	24
5.1. Test Plots.....	24
6. SPURIOUS EMISSION AT ANTENNA TERMINAL .....	29
6.1. Test Plots.....	29
7. FIELD STRENGTH OF SPURIOUS RADIATION .....	42
7.1. Test Band = GSM 1900(ANT1) .....	42
7.1.1. Test Channel = LCH .....	42
7.1.2. Test Channel = MCH .....	42
7.1.3. Test Channel = HCH.....	43
7.2. Test Band = GSM 850(ANT1) .....	43
7.2.1. Test Channel = LCH .....	43
7.2.2. Test Channel = MCH .....	44



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7.2.3. Test Channel = HCH..... 44

7.3. Test Band = GSM 1900(ANT2) ..... 45

7.3.1. Test Channel = LCH ..... 45

7.3.2. Test Channel = MCH ..... 45

7.3.3. Test Channel = HCH..... 46

7.4. Test Band = GSM 850(ANT2) ..... 46

7.4.1. Test Channel = LCH ..... 46

7.4.2. Test Channel = MCH ..... 47

7.4.3. Test Channel = HCH..... 47

8. FREQUENCY STABILITY ..... 48

8.1. Frequency Error Vs Voltage ..... 48

8.2. Frequency Error Vs Temperature..... 49



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# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1. Test Result

**ANT1:**

Band	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	32.99	26.34	38.45	PASS
GSM850	190	---	32.48	25.83	38.45	PASS
GSM850	251	---	32.57	25.92	38.45	PASS
EGPRS850	128	1	26.01	19.36	38.45	PASS
EGPRS850	128	2	23.98	17.33	38.45	PASS
EGPRS850	128	3	22.00	15.35	38.45	PASS
EGPRS850	128	4	21.12	14.47	38.45	PASS
EGPRS850	190	1	25.80	19.15	38.45	PASS
EGPRS850	190	2	23.70	17.05	38.45	PASS
EGPRS850	190	3	21.80	15.15	38.45	PASS
EGPRS850	190	4	20.88	14.23	38.45	PASS
EGPRS850	251	1	25.81	19.16	38.45	PASS
EGPRS850	251	2	23.78	17.13	38.45	PASS
EGPRS850	251	3	21.89	15.24	38.45	PASS
EGPRS850	251	4	21.00	14.35	38.45	PASS

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	29.55	30.85	33.00	PASS
GSM1900	661	---	29.94	31.24	33.00	PASS
GSM1900	810	---	30.33	31.63	33.00	PASS
EGPRS1900	512	1	24.74	26.04	33.00	PASS
EGPRS1900	512	2	22.65	23.95	33.00	PASS
EGPRS1900	512	3	20.55	21.85	33.00	PASS
EGPRS1900	512	4	19.32	20.62	33.00	PASS
EGPRS1900	661	1	24.50	25.8	33.00	PASS
EGPRS1900	661	2	22.42	23.72	33.00	PASS
EGPRS1900	661	3	20.38	21.68	33.00	PASS
EGPRS1900	661	4	19.12	20.42	33.00	PASS
EGPRS1900	810	1	24.76	26.06	33.00	PASS
EGPRS1900	810	2	22.76	24.06	33.00	PASS
EGPRS1900	810	3	20.76	22.06	33.00	PASS
EGPRS1900	810	4	19.54	20.84	33.00	PASS



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**ANT2:**

Band	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	32.22	25.57	38.45	PASS
GSM850	190	---	32.21	25.56	38.45	PASS
GSM850	251	---	32.16	25.51	38.45	PASS
EGPRS850	128	1	26.68	20.03	38.45	PASS
EGPRS850	128	2	24.20	17.55	38.45	PASS
EGPRS850	128	3	22.68	16.03	38.45	PASS
EGPRS850	128	4	21.69	15.04	38.45	PASS
EGPRS850	190	1	26.68	20.03	38.45	PASS
EGPRS850	190	2	24.25	17.6	38.45	PASS
EGPRS850	190	3	22.69	16.04	38.45	PASS
EGPRS850	190	4	21.80	15.15	38.45	PASS
EGPRS850	251	1	26.56	19.91	38.45	PASS
EGPRS850	251	2	24.41	17.76	38.45	PASS
EGPRS850	251	3	22.68	16.03	38.45	PASS
EGPRS850	251	4	21.77	15.12	38.45	PASS

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	29.62	28.82	33.00	PASS
GSM1900	661	---	29.65	28.85	33.00	PASS
GSM1900	810	---	29.95	29.15	33.00	PASS
EGPRS1900	512	1	24.11	23.31	33.00	PASS
EGPRS1900	512	2	22.12	21.32	33.00	PASS
EGPRS1900	512	3	20.03	19.23	33.00	PASS
EGPRS1900	512	4	19.12	18.32	33.00	PASS
EGPRS1900	661	1	25.14	24.34	33.00	PASS
EGPRS1900	661	2	22.47	21.67	33.00	PASS
EGPRS1900	661	3	20.89	20.09	33.00	PASS
EGPRS1900	661	4	19.75	18.95	33.00	PASS
EGPRS1900	810	1	25.90	25.1	33.00	PASS
EGPRS1900	810	2	23.33	22.53	33.00	PASS
EGPRS1900	810	3	21.73	20.93	33.00	PASS
EGPRS1900	810	4	20.69	19.89	33.00	PASS

Remark:

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

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

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



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## 2. Peak-to-Average Ratio

### 2.1. Test Result

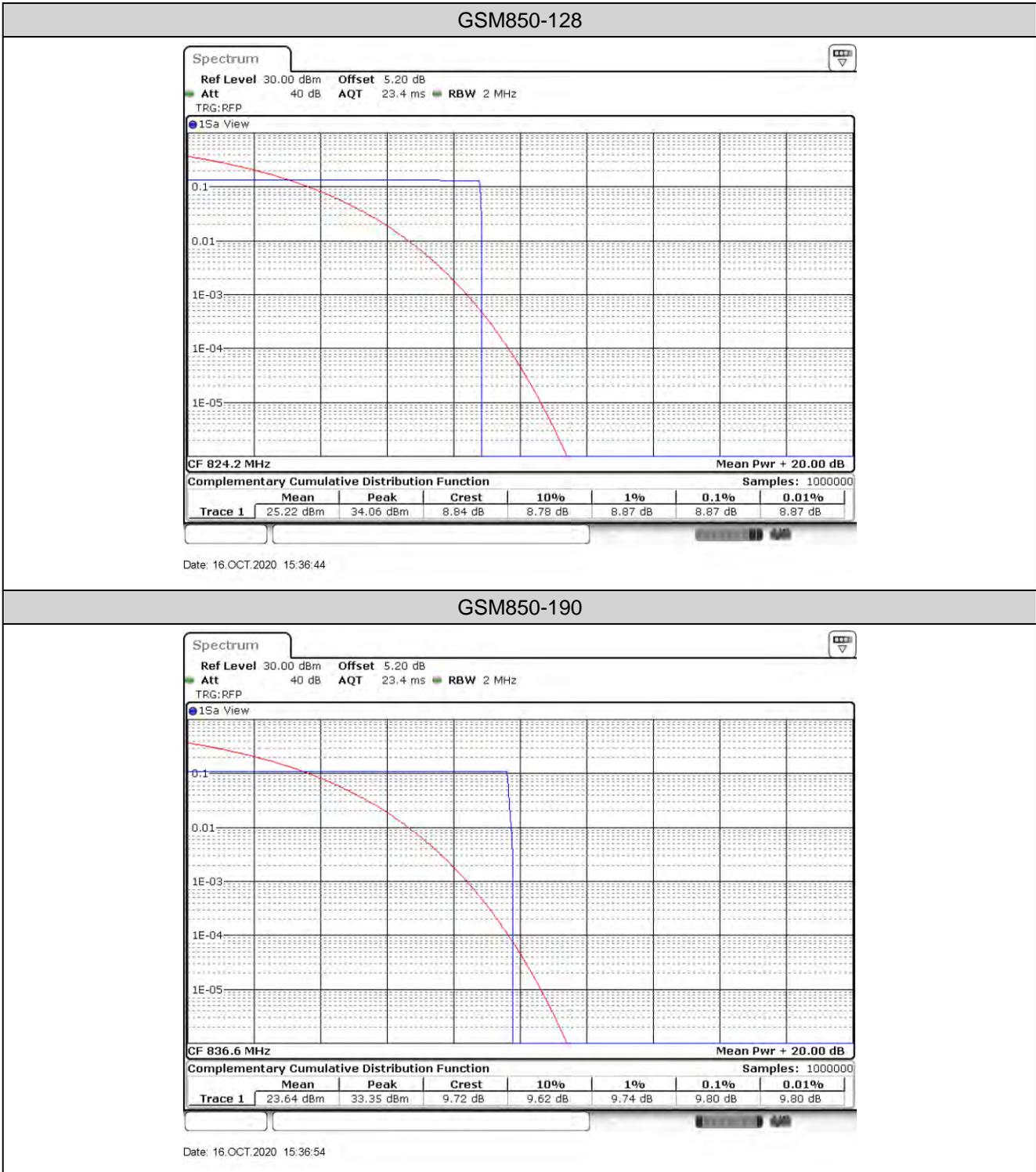
Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	8.87	13	PASS
GSM850	190	9.8	13	PASS
GSM850	251	8.9	13	PASS
EGPRS850	128	12.17	13	PASS
EGPRS850	190	12.52	13	PASS
EGPRS850	251	12.12	13	PASS
GSM1900	512	8.96	13	PASS
GSM1900	661	8.96	13	PASS
GSM1900	810	8.9	13	PASS
EGPRS1900	512	12.49	13	PASS
EGPRS1900	661	11.8	13	PASS
EGPRS1900	810	11.8	13	PASS



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**2.2.Part II - Test Plots**

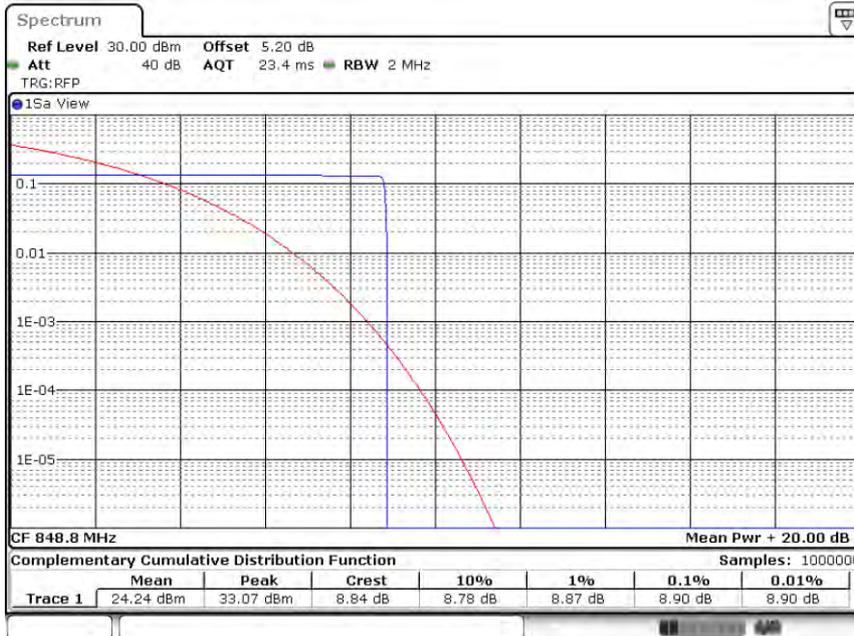


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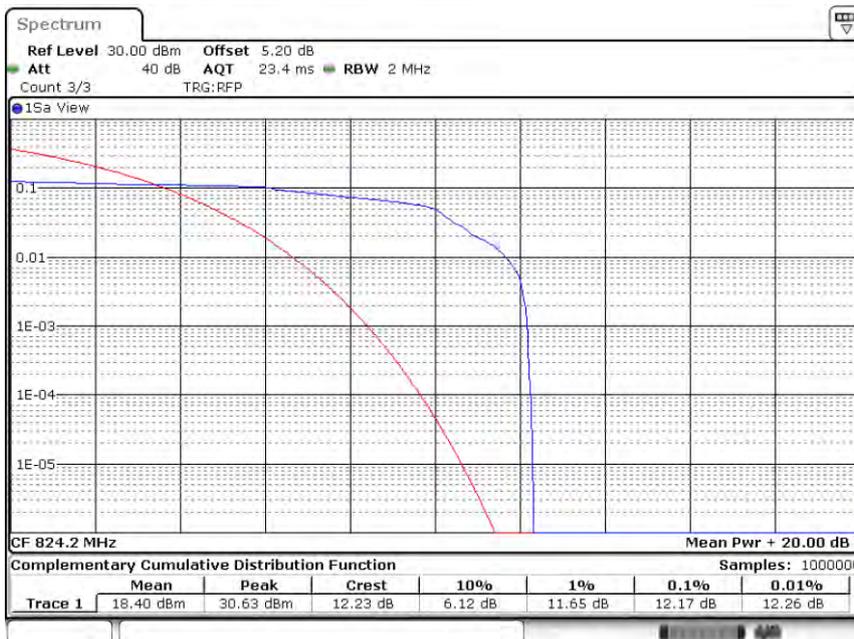
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**GSM850-251**



Date: 16.OCT.2020 15:37:04

**EGPRS850-128**

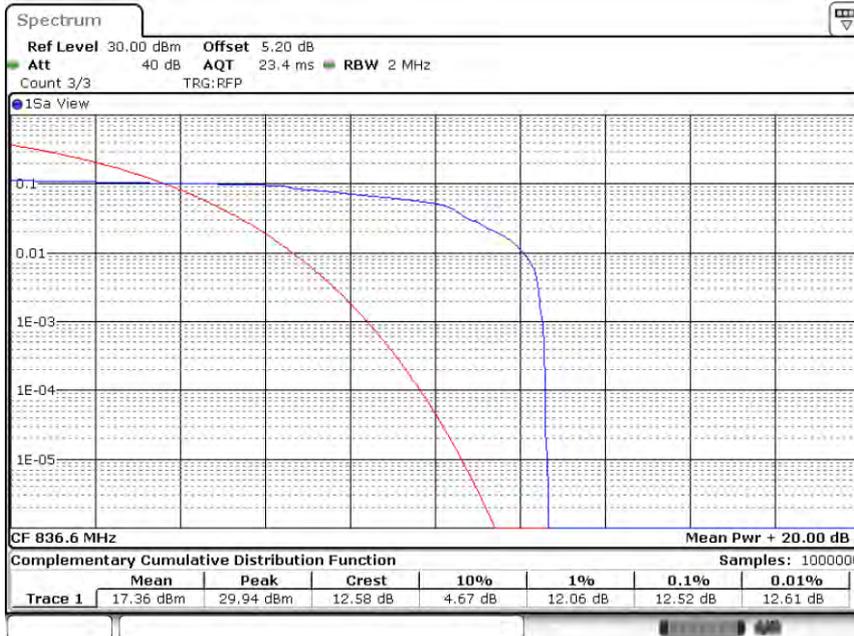


Date: 16.OCT.2020 15:41:57



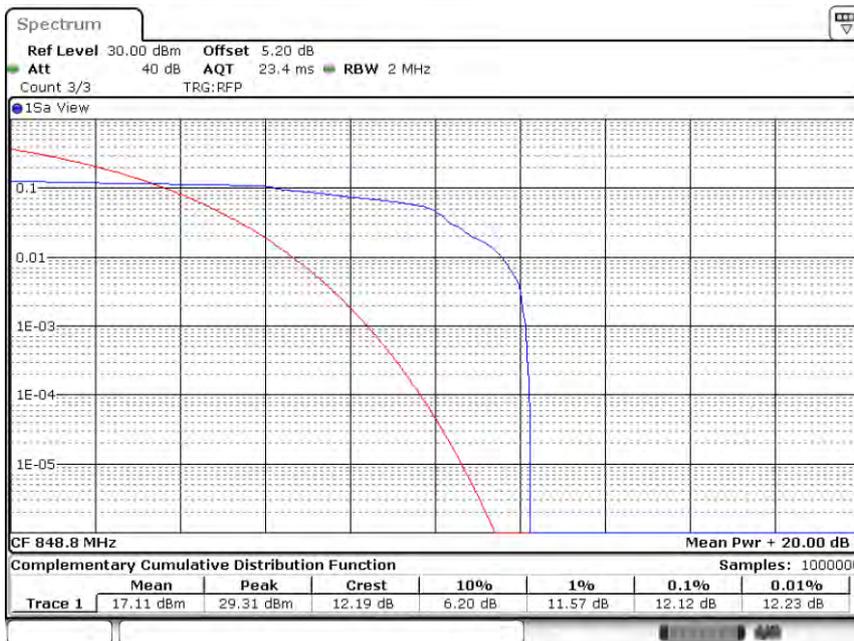
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**EGPRS850-190**



Date: 16.OCT.2020 15:42:07

**EGPRS850-251**

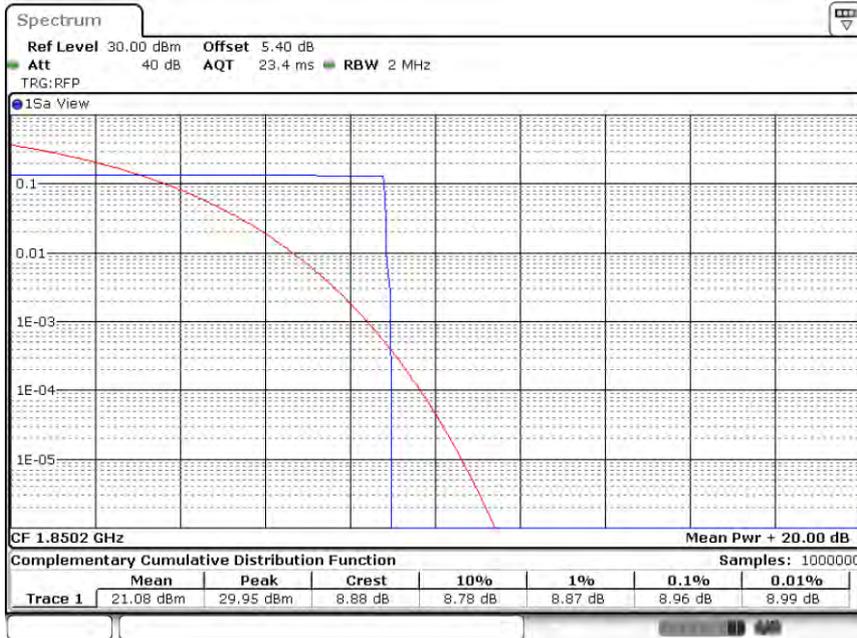


Date: 16.OCT.2020 15:42:18



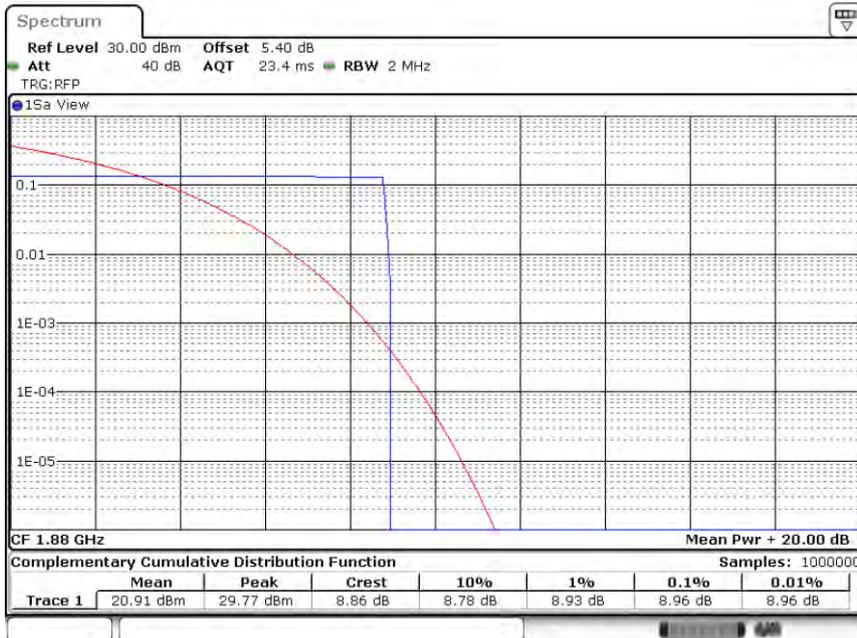
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**GSM1900-512**



Date: 16.OCT.2020 15:17:33

**GSM1900-661**

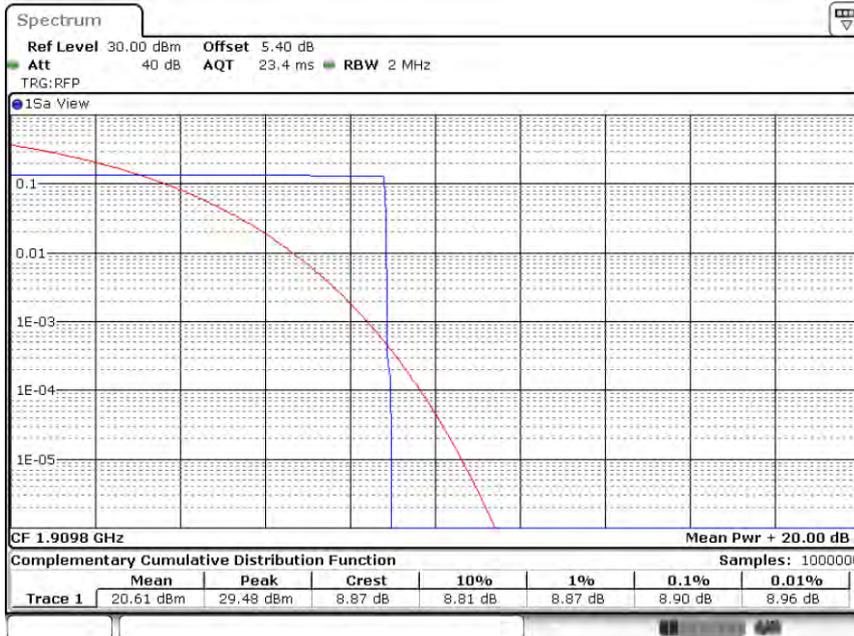


Date: 16.OCT.2020 15:17:43



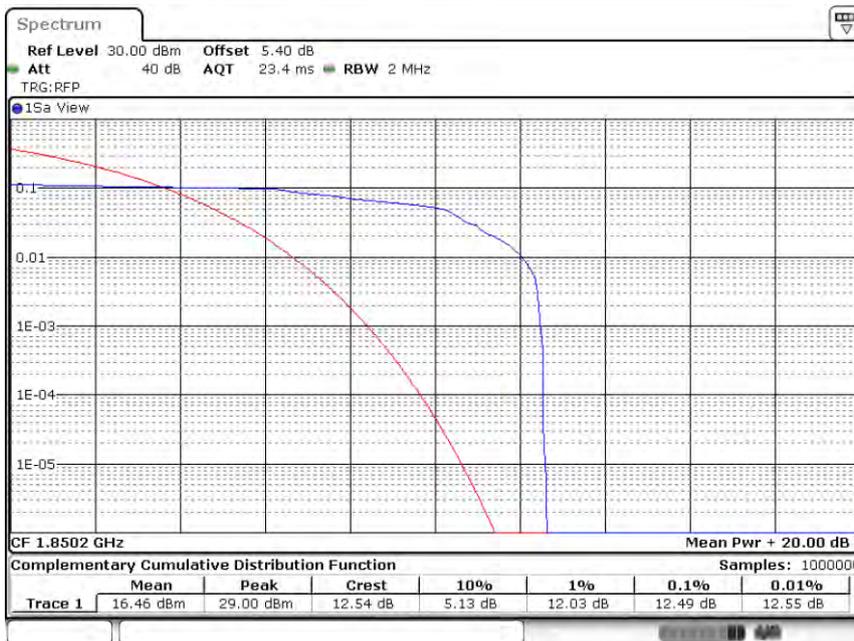
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**GSM1900-810**



Date: 16.OCT.2020 15:17:53

**EGPRS1900-512**

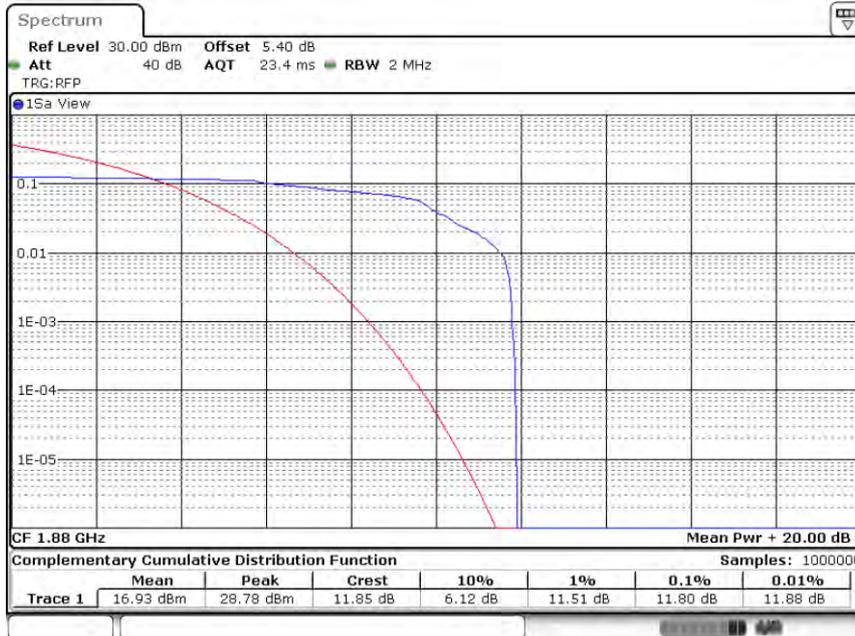


Date: 16.OCT.2020 15:34:54



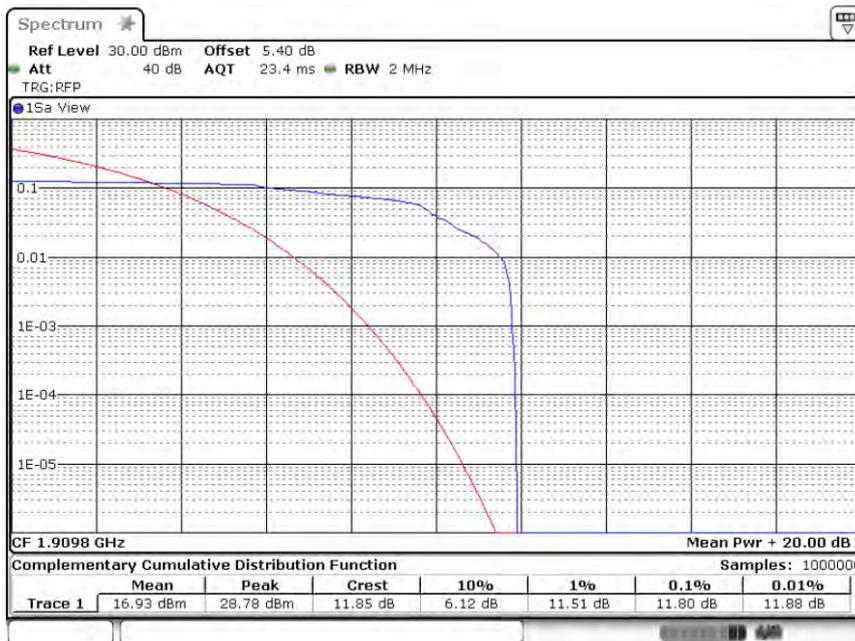
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EGPRS1900-661



Date: 16.OCT.2020 15:35:05

EGPRS1900-810



Date: 16.OCT.2020 15:35:15



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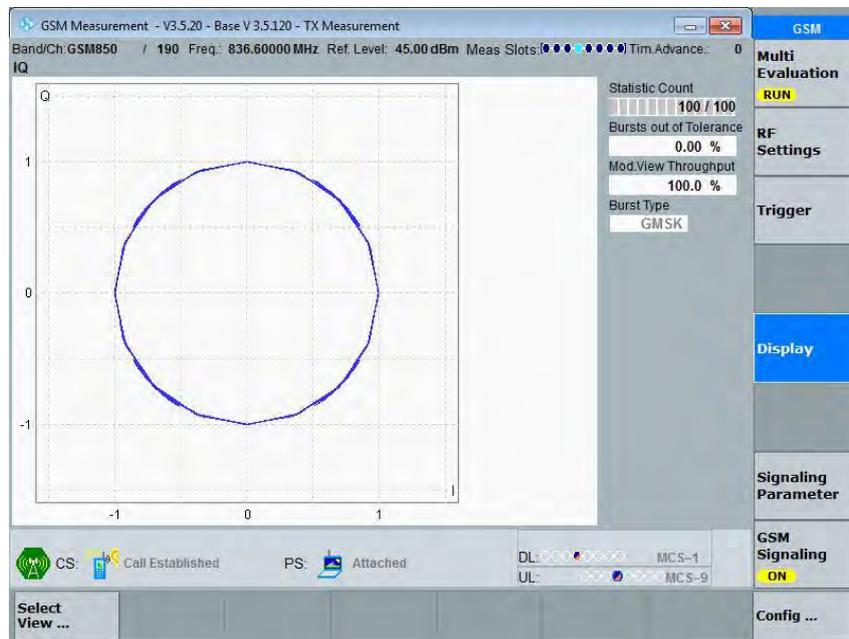
### 3. Modulation Characteristics

#### 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

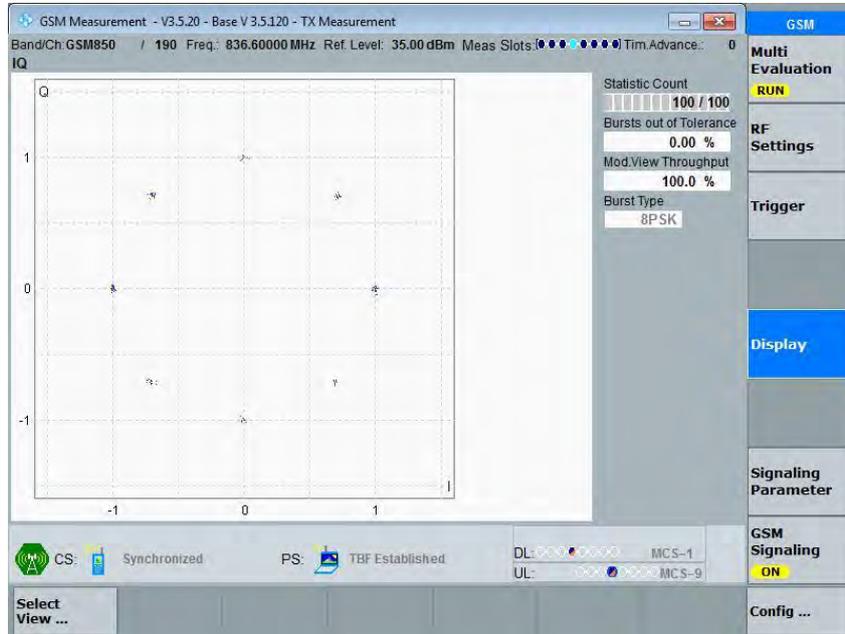


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**3.1.1.2. Test Mode = GSM/TM2**

**3.1.1.2.1. Test Channel = MCH**



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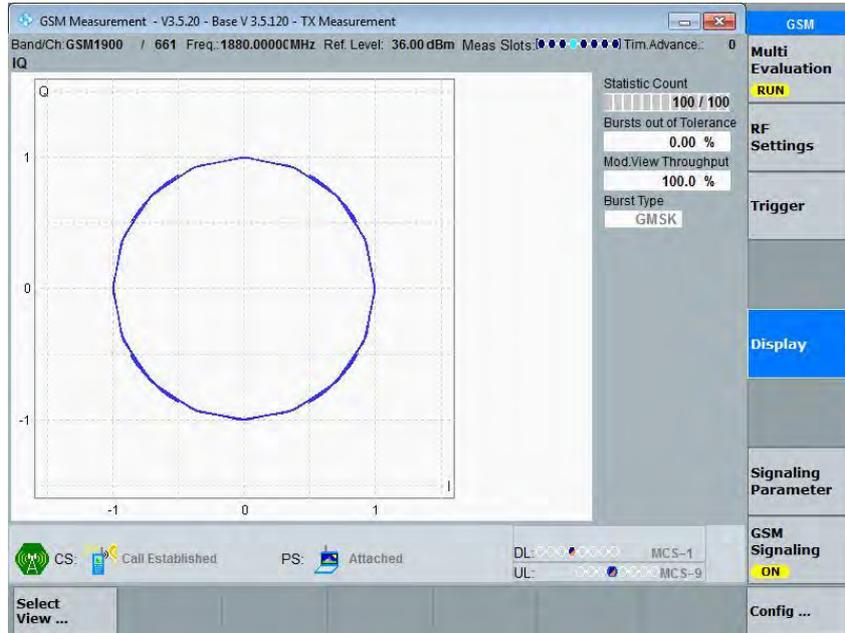
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**3.1.2. Test Band = GSM 1900**

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

**3.1.2.1.1. Test Channel = MCH**



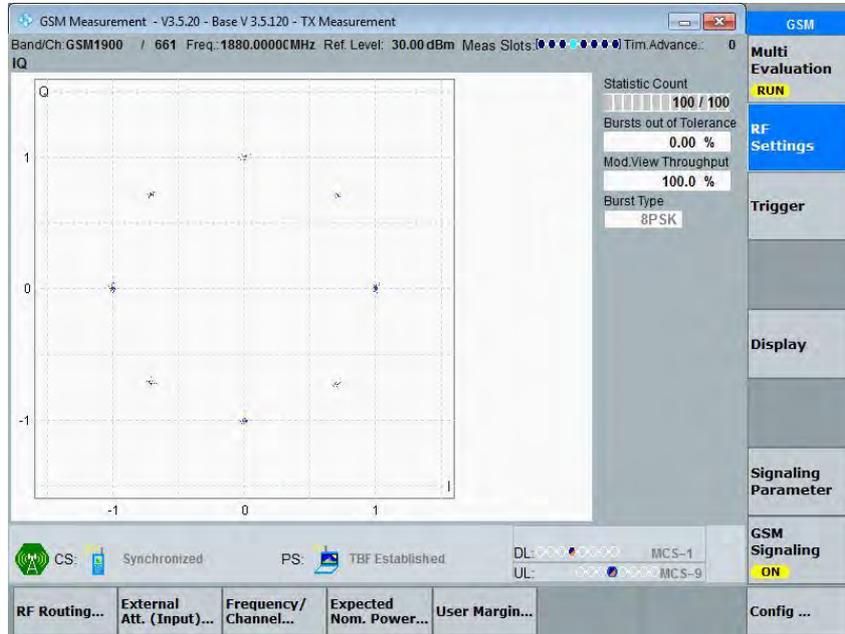
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**3.1.2.2. Test Mode = GSM/TM2**

**3.1.2.2.1. Test Channel = MCH**



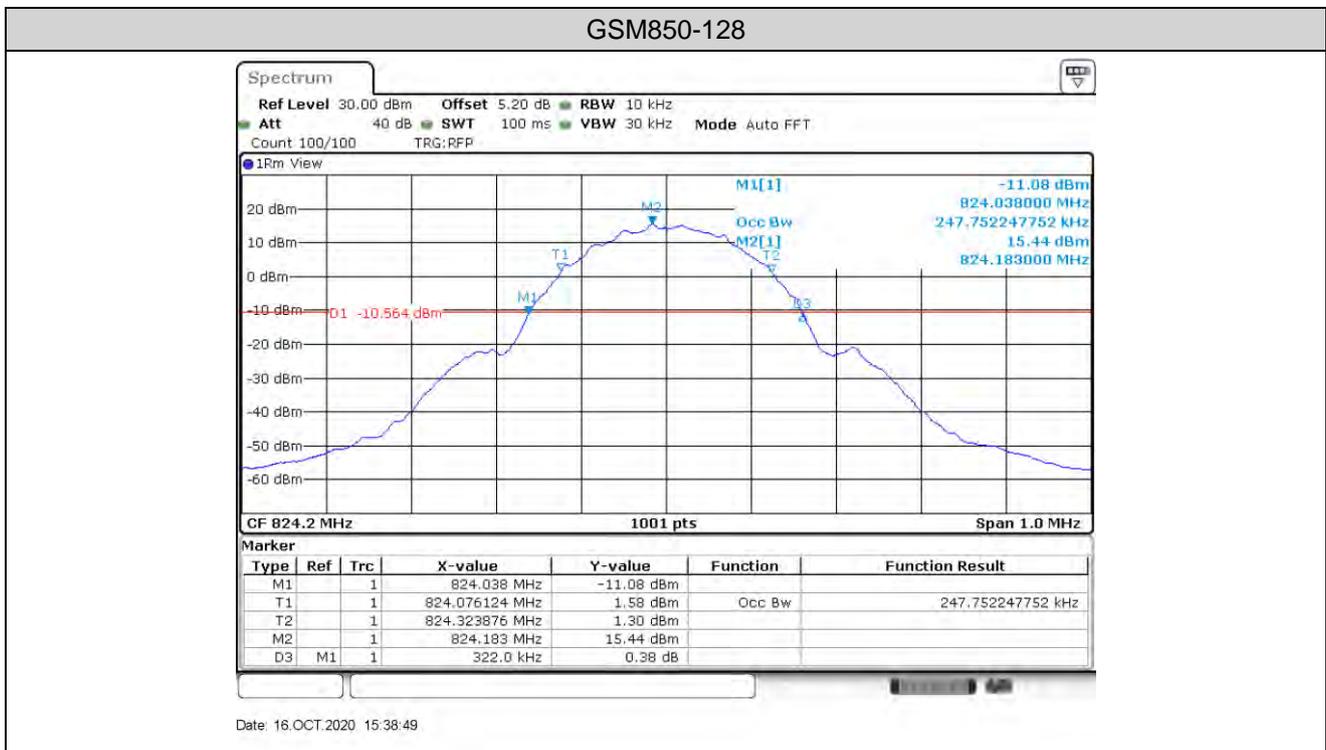
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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.248	0.322	---	PASS
GSM850	190	0.247	0.322	---	PASS
GSM850	251	0.247	0.323	---	PASS
EGPRS850	128	0.246	0.317	---	PASS
EGPRS850	190	0.246	0.318	---	PASS
EGPRS850	251	0.247	0.319	---	PASS
GSM1900	512	0.247	0.323	---	PASS
GSM1900	661	0.248	0.323	---	PASS
GSM1900	810	0.247	0.324	---	PASS
EGPRS1900	512	0.246	0.316	---	PASS
EGPRS1900	661	0.245	0.316	---	PASS
EGPRS1900	810	0.246	0.316	---	PASS

### 4.2. Test Plots

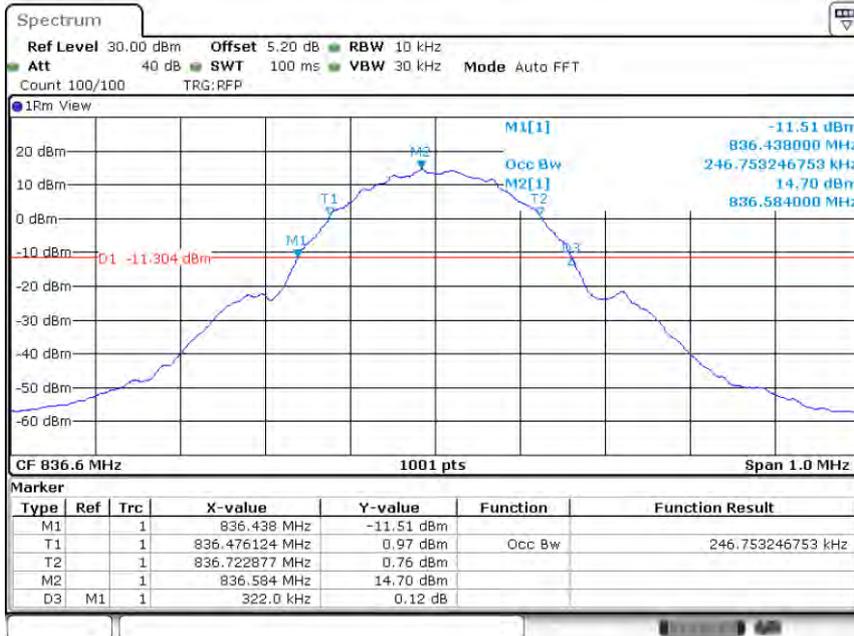


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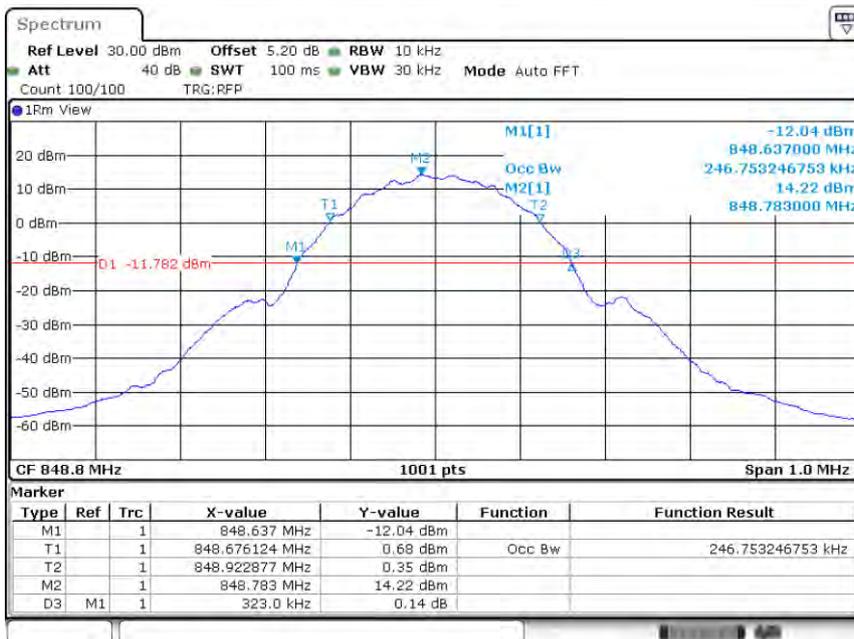
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**GSM850-190**



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**GSM850-251**

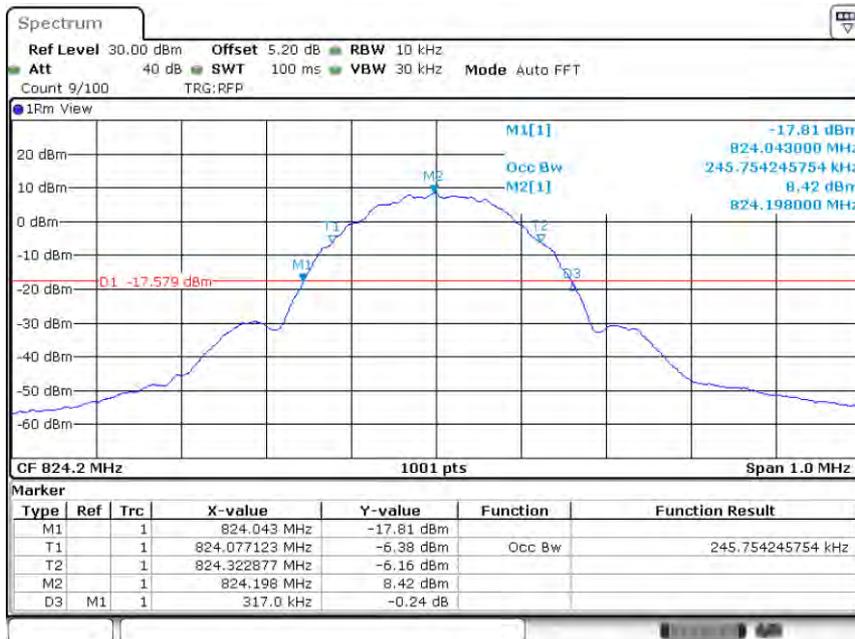


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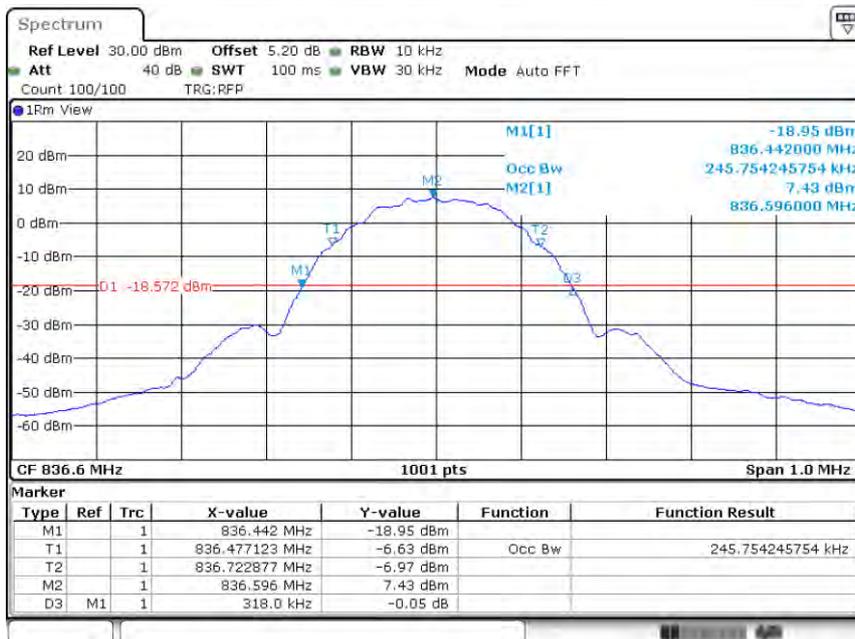
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**EGPRS850-128**



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**EGPRS850-190**

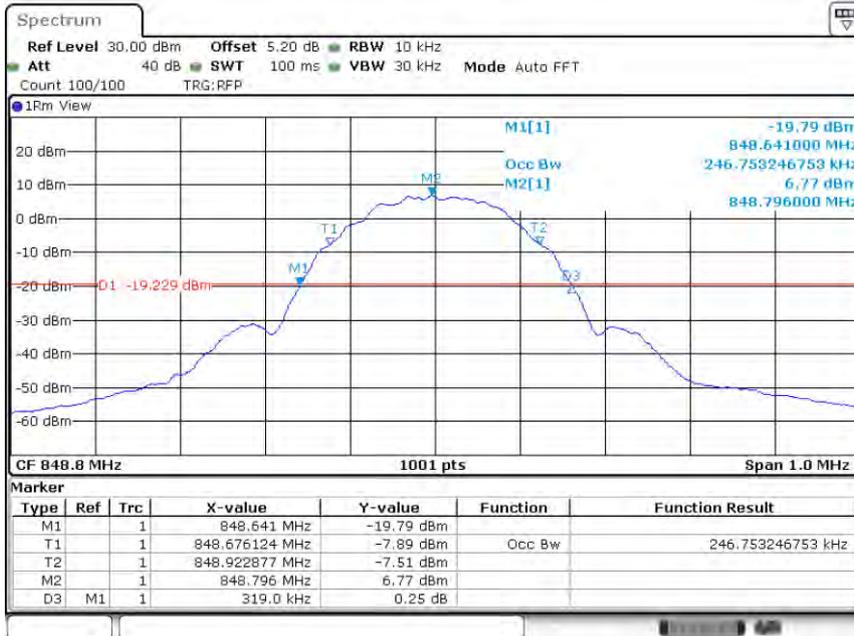


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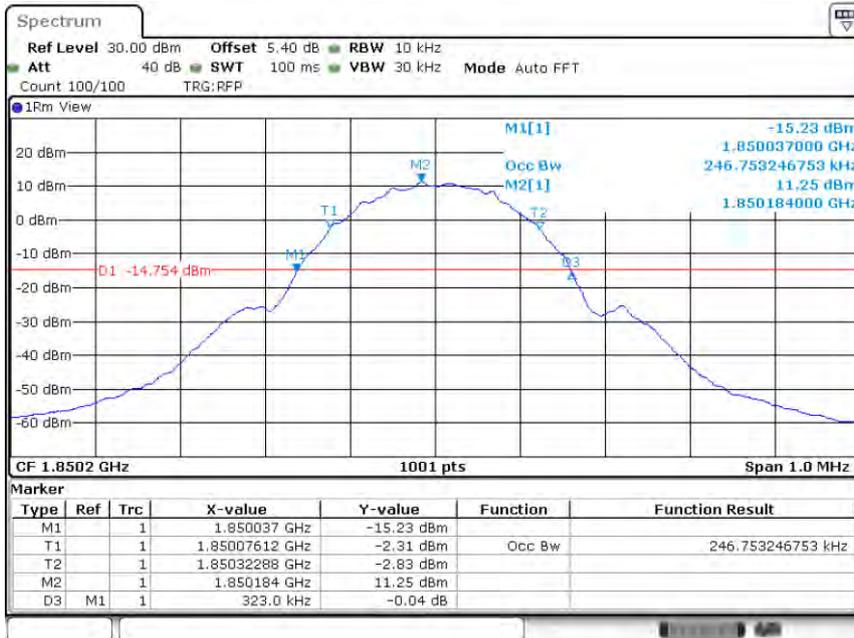
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**GSM1900-512**

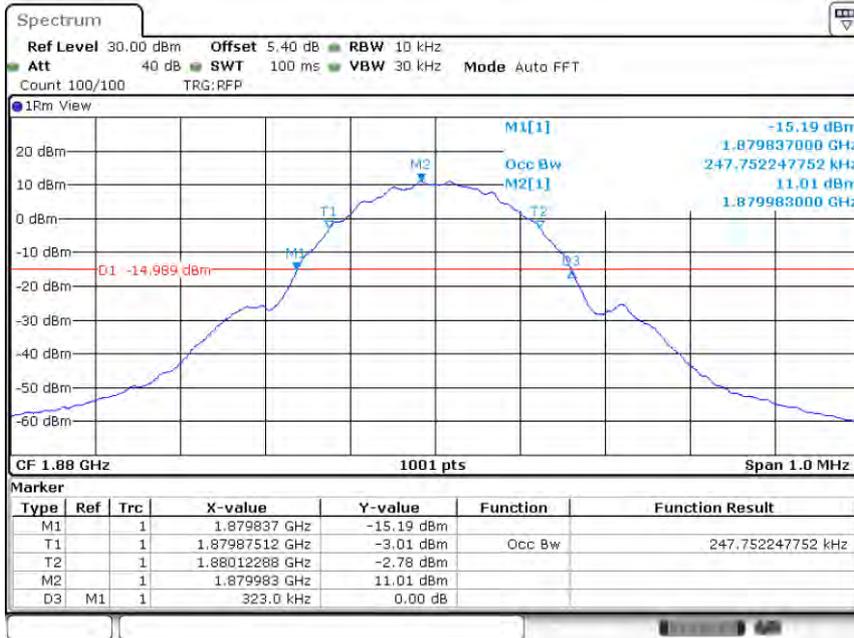


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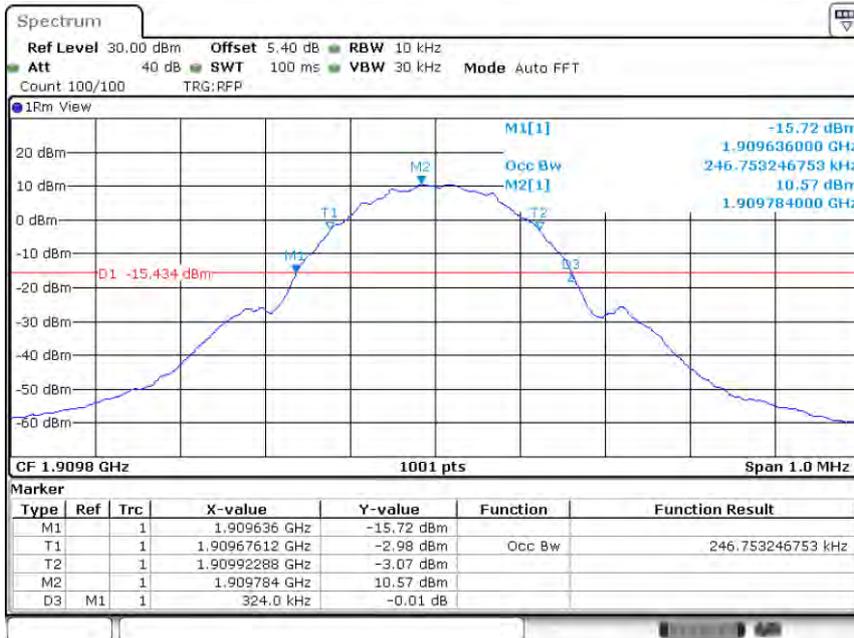
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**GSM1900-661**



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**GSM1900-810**



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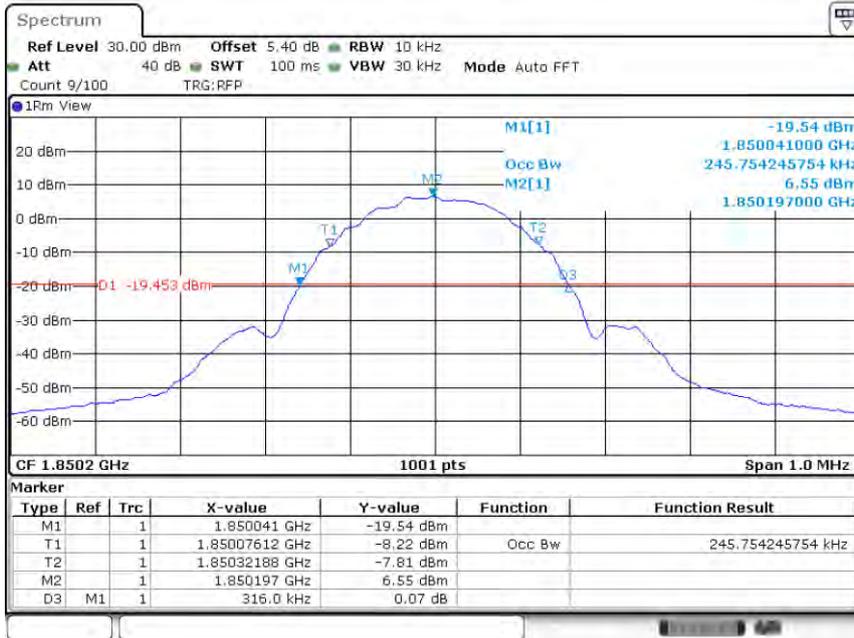


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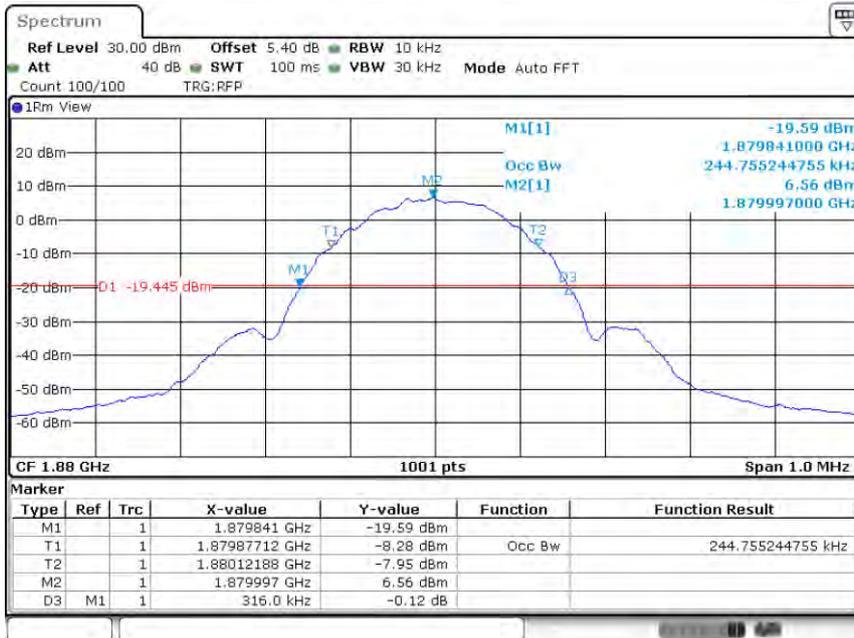
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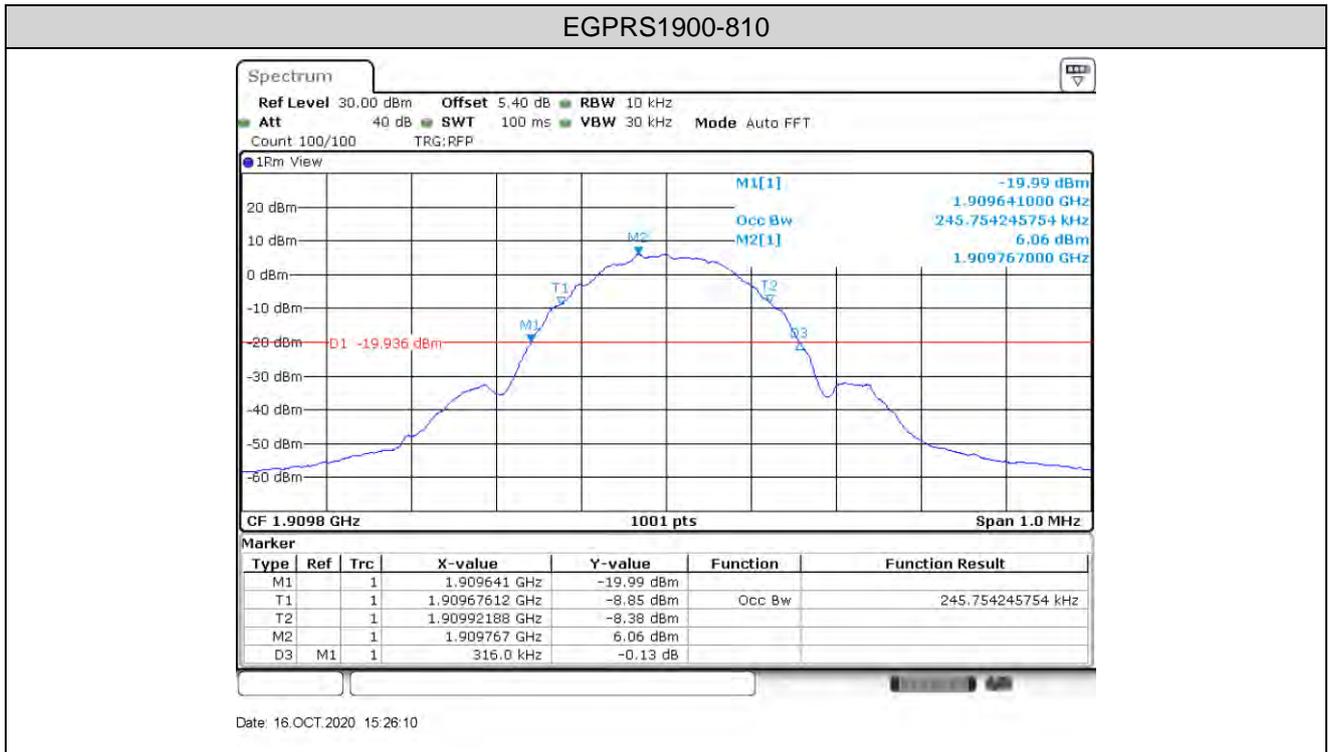
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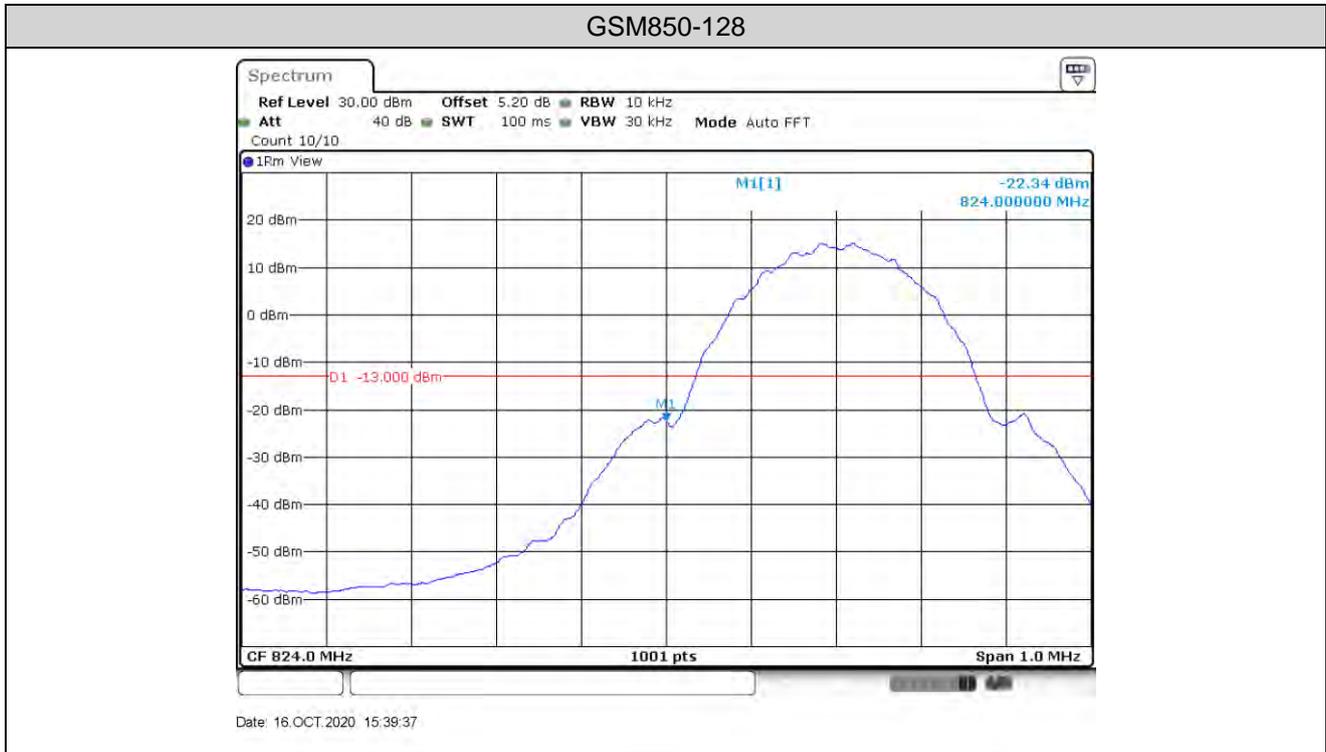
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## 5. Band Edge Compliance

### 5.1. Test Plots



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**GSM850-251**



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**EGPRS850-128**

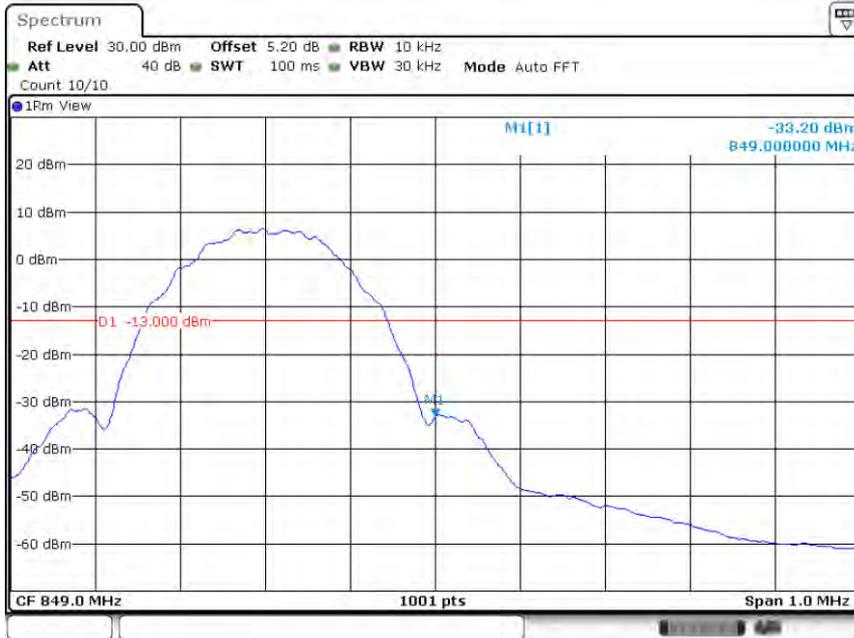


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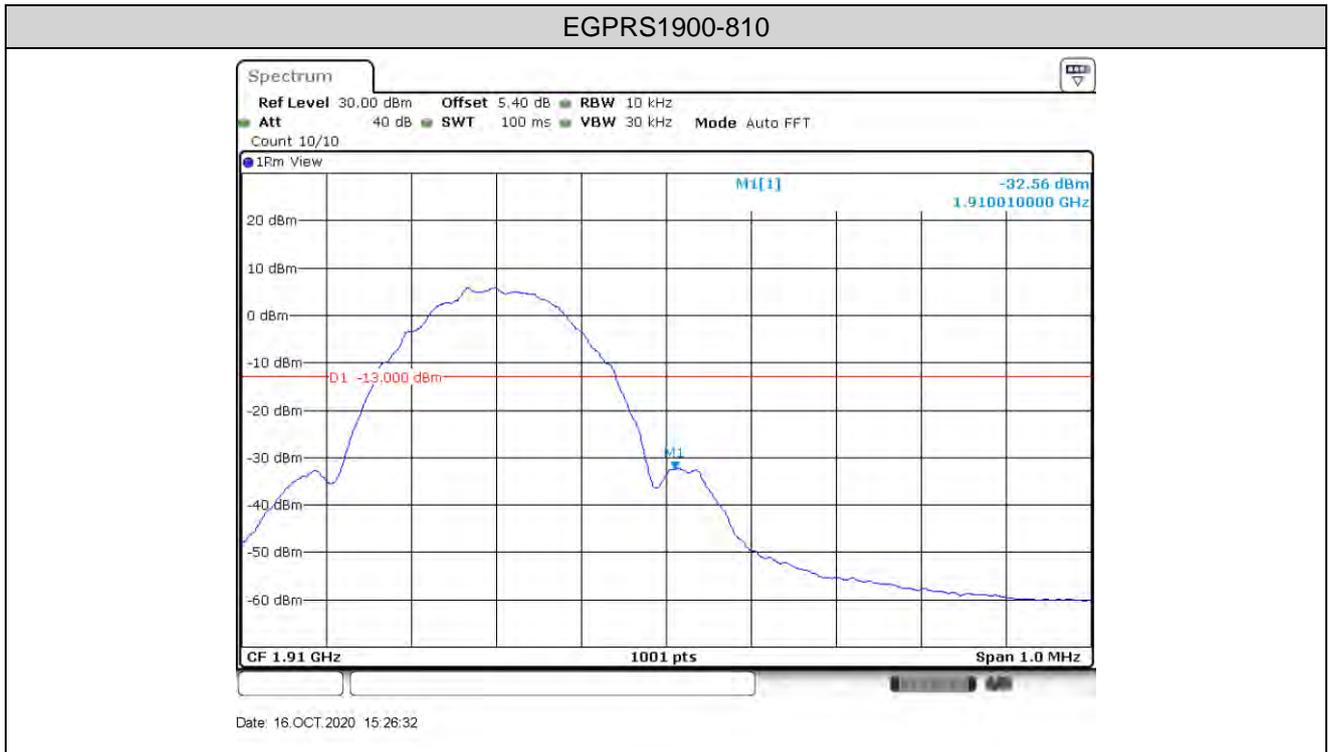
**EGPRS1900-512**



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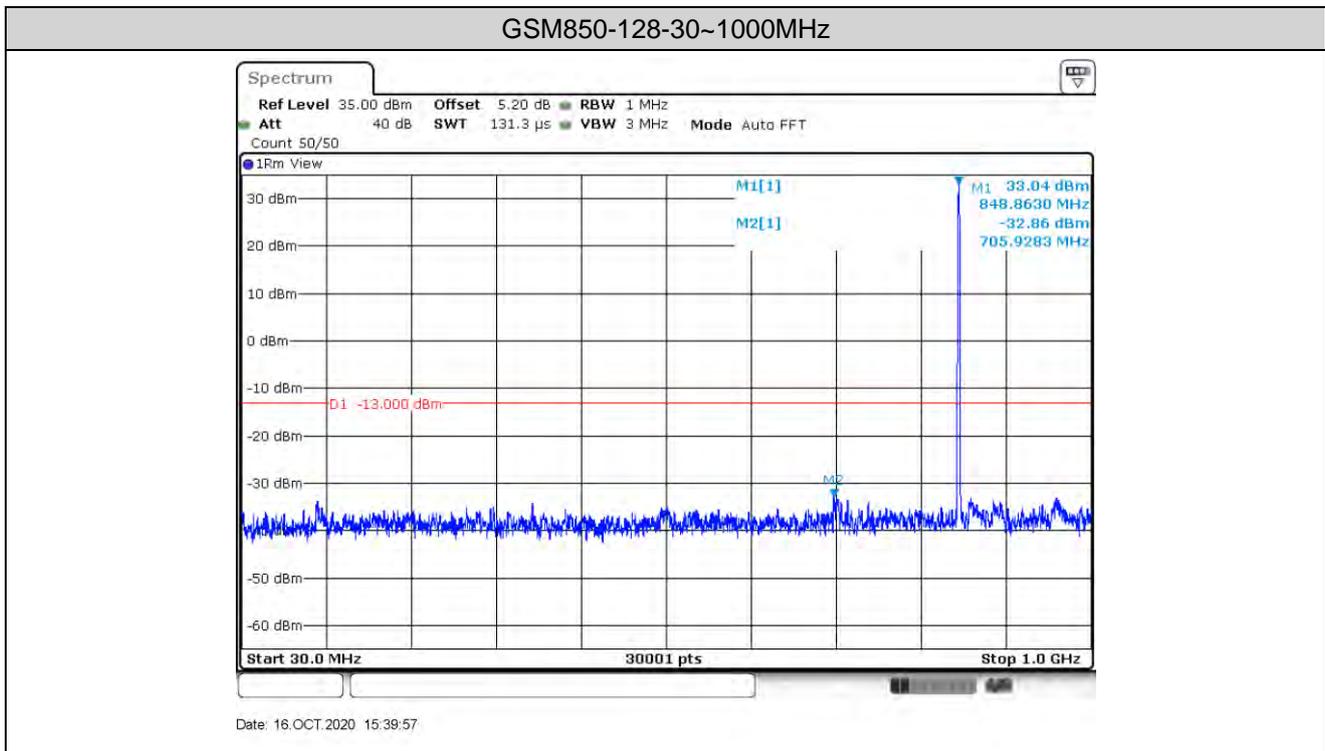
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## 6. Spurious Emission at Antenna Terminal

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 =  $k * (Span / RBW)$ " 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

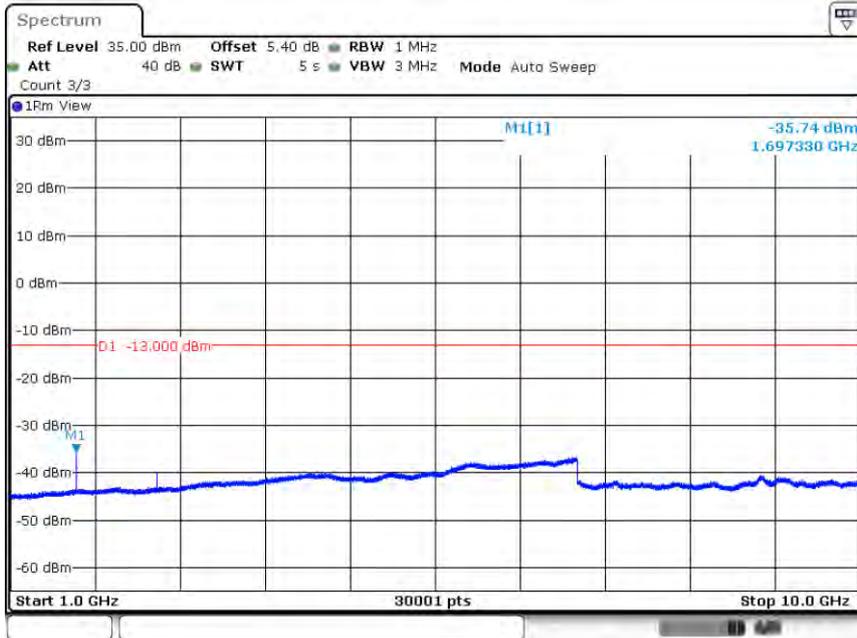


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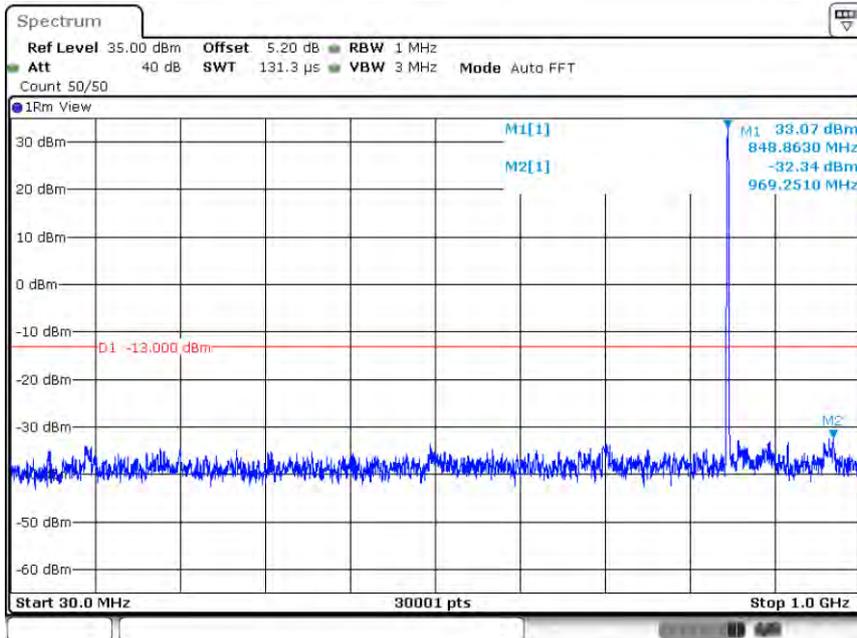
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**GSM850-128-1000~10000MHz**



Date: 16.OCT.2020 15:40:19

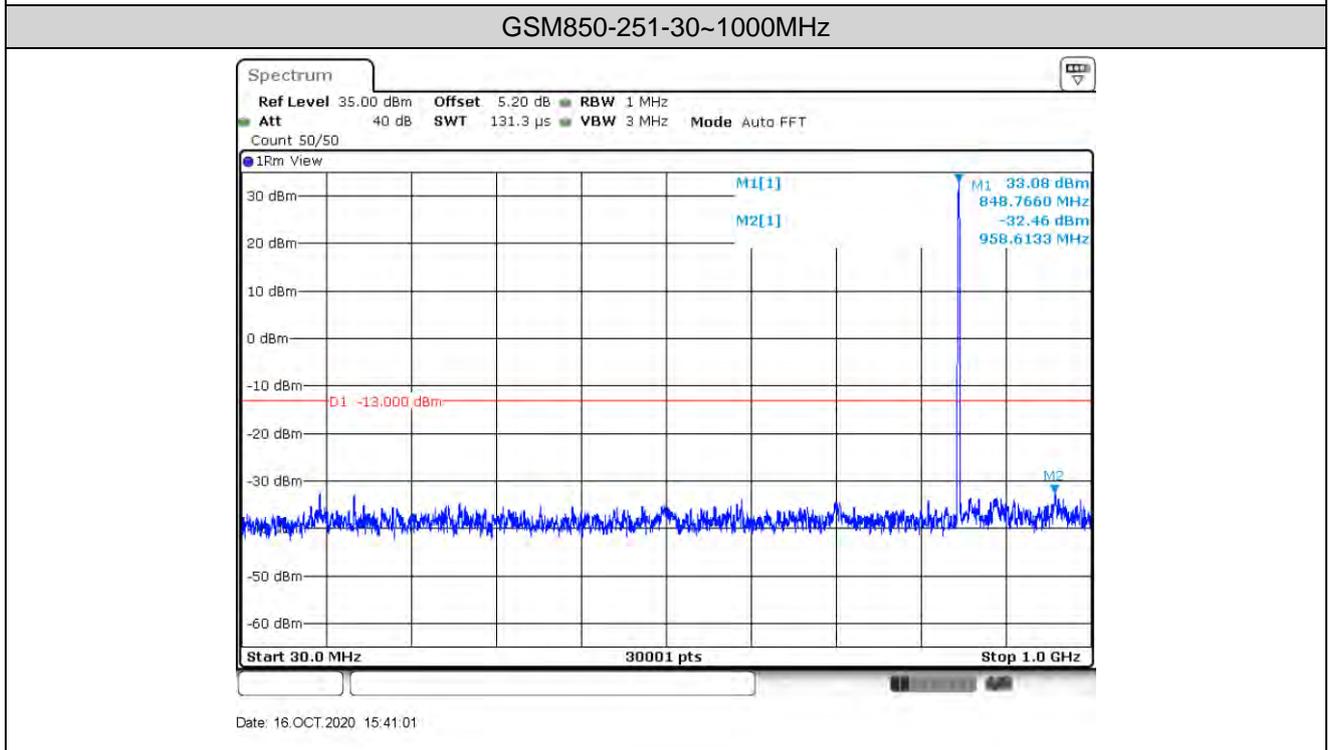
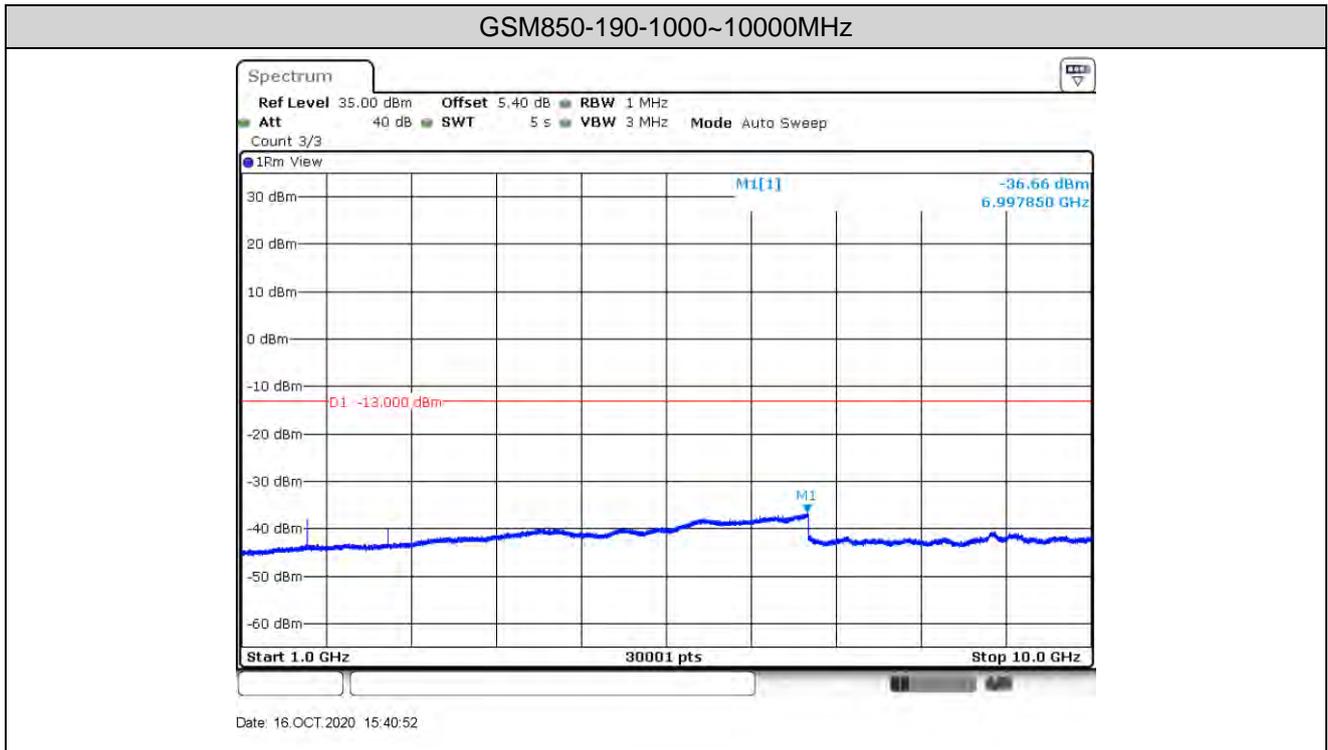
**GSM850-190-30~1000MHz**



Date: 16.OCT.2020 15:40:29

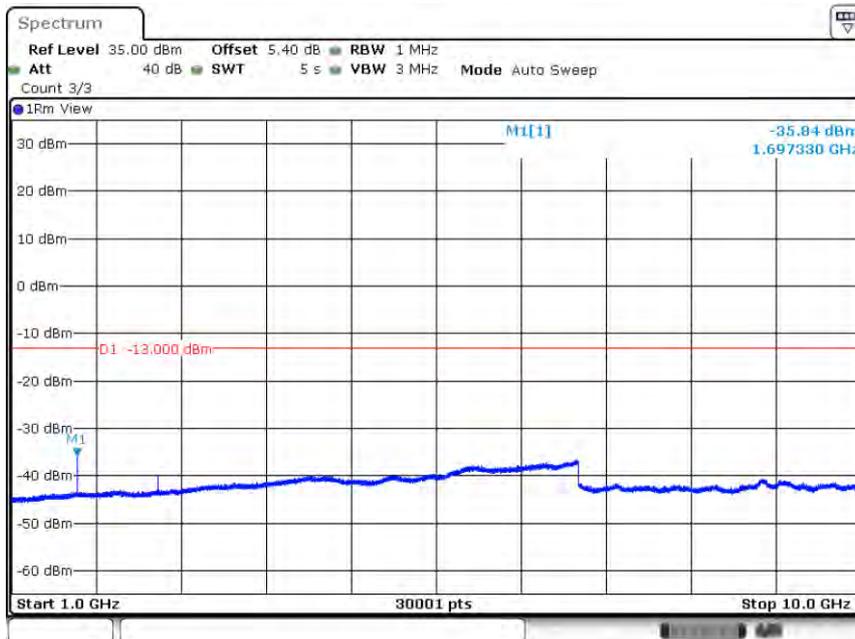


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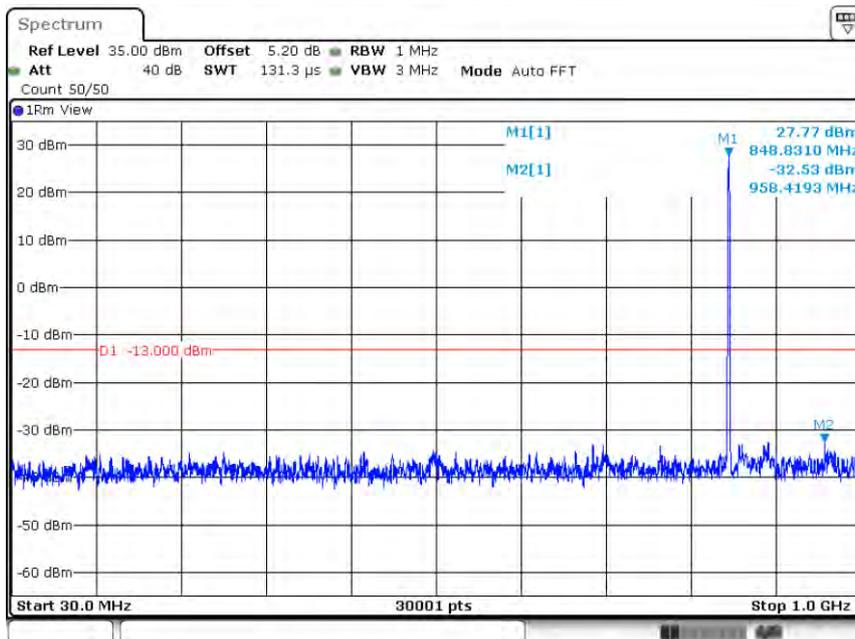
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**GSM850-251-1000~10000MHz**



Date: 16.OCT.2020 15:41:24

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

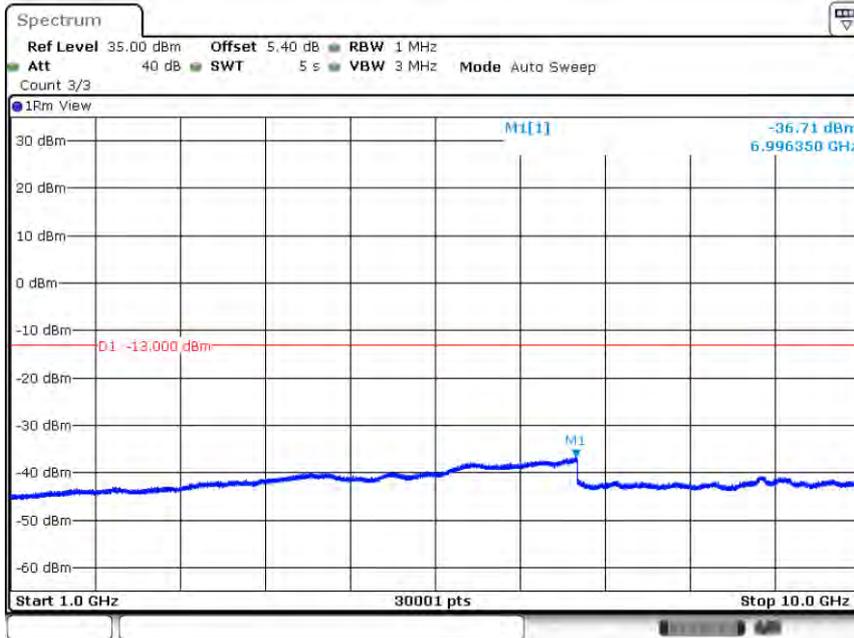


Date: 16.OCT.2020 15:45:18



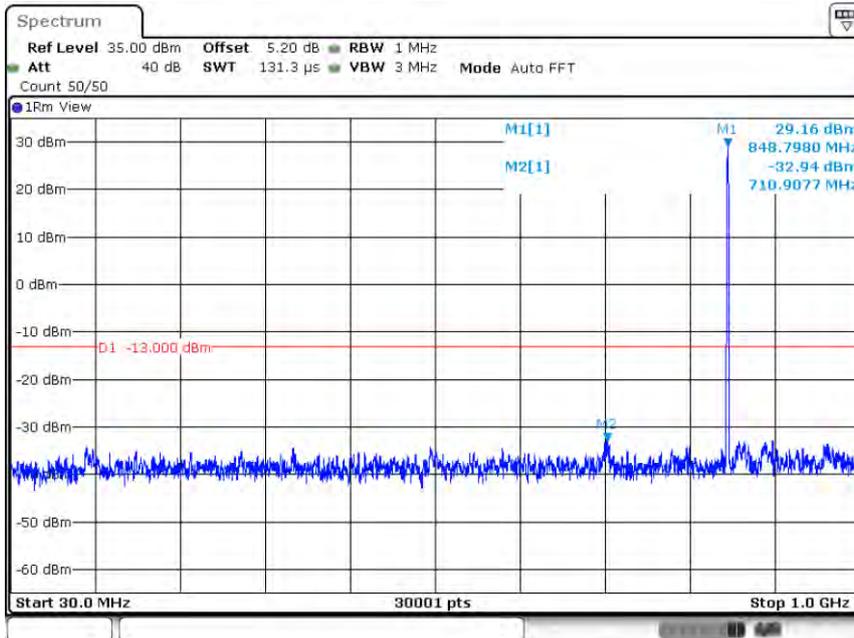
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**EGPRS850-128-1000~10000MHz**



Date: 16.OCT.2020 15:45:40

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



Date: 16.OCT.2020 15:45:51



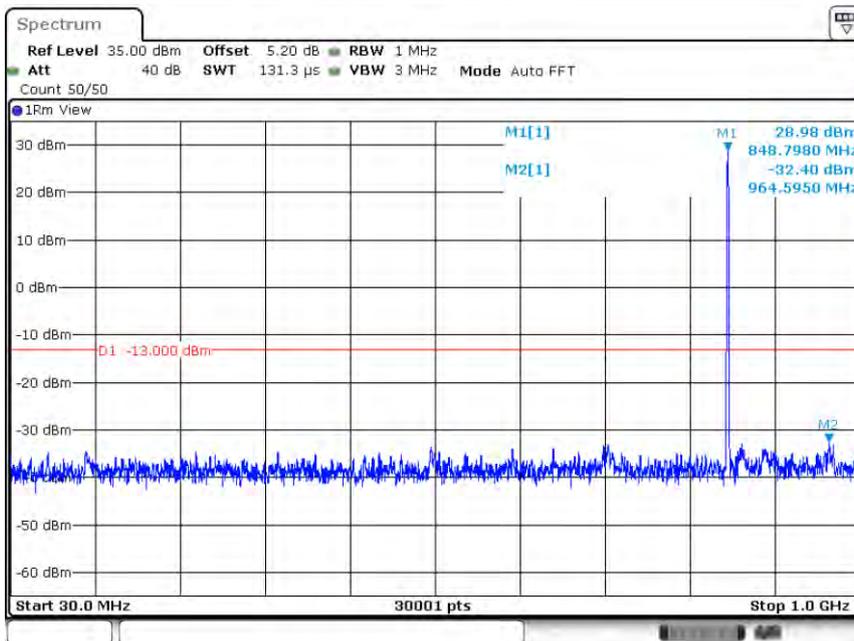
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**EGPRS850-190-1000~10000MHz**



Date: 16.OCT.2020 15:46:14

**EGPRS850-251-30~1000MHz**

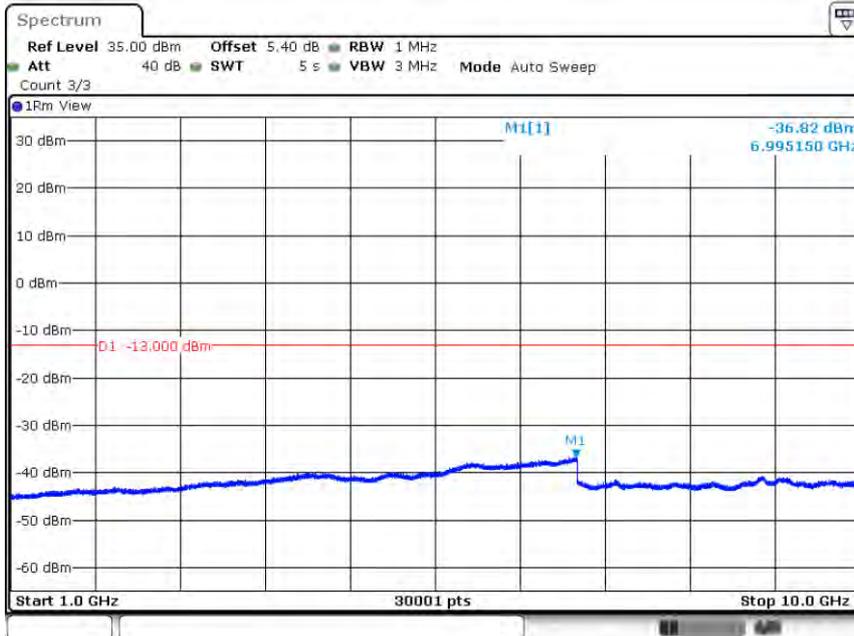


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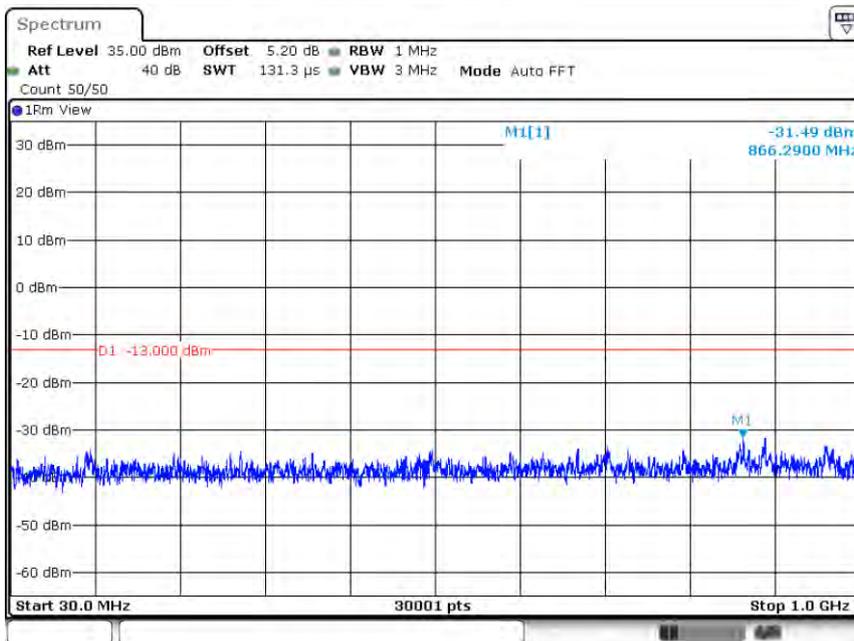
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**EGPRS850-251-1000~10000MHz**



Date: 16.OCT.2020 15:46:49

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

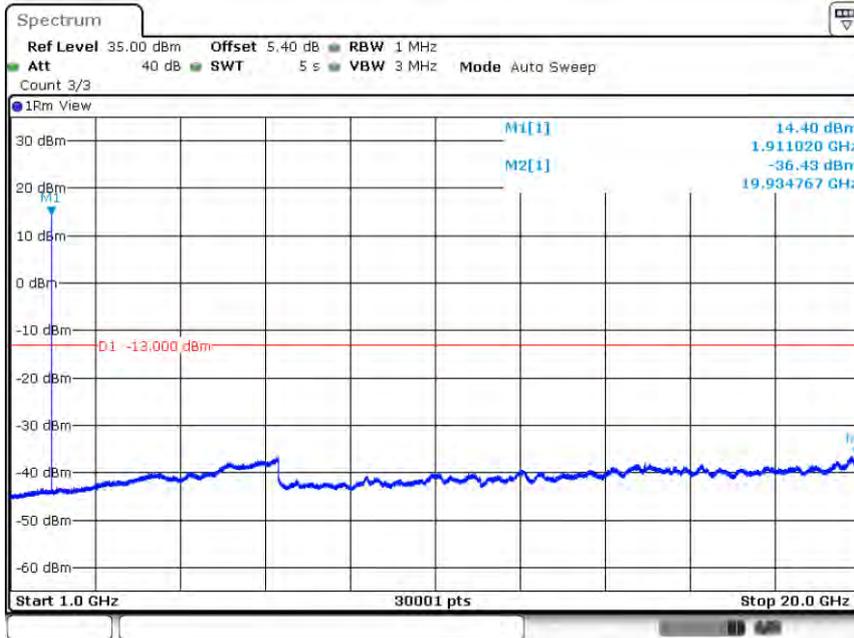


Date: 16.OCT.2020 15:20:45



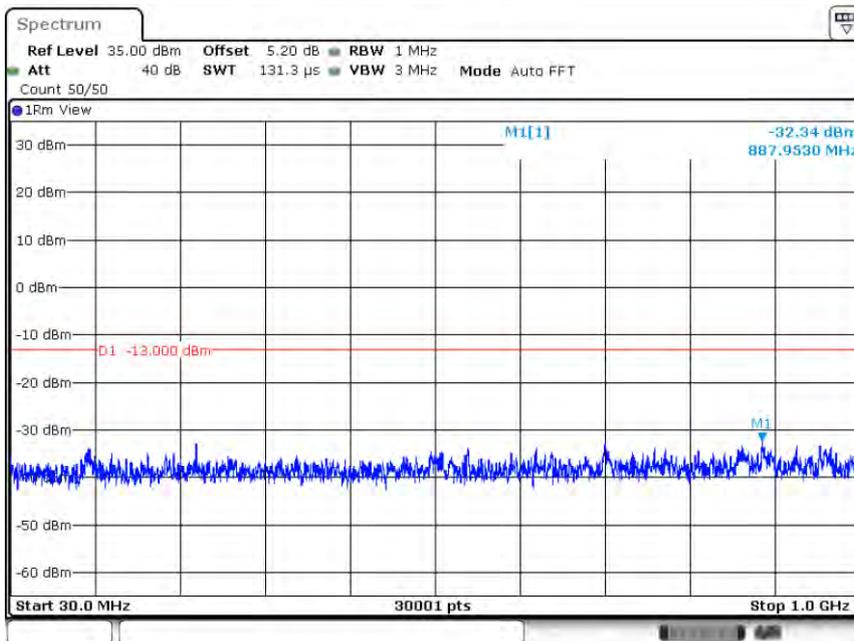
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**GSM1900-512-1000~20000MHz**



Date: 16.OCT.2020 15:21:09

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

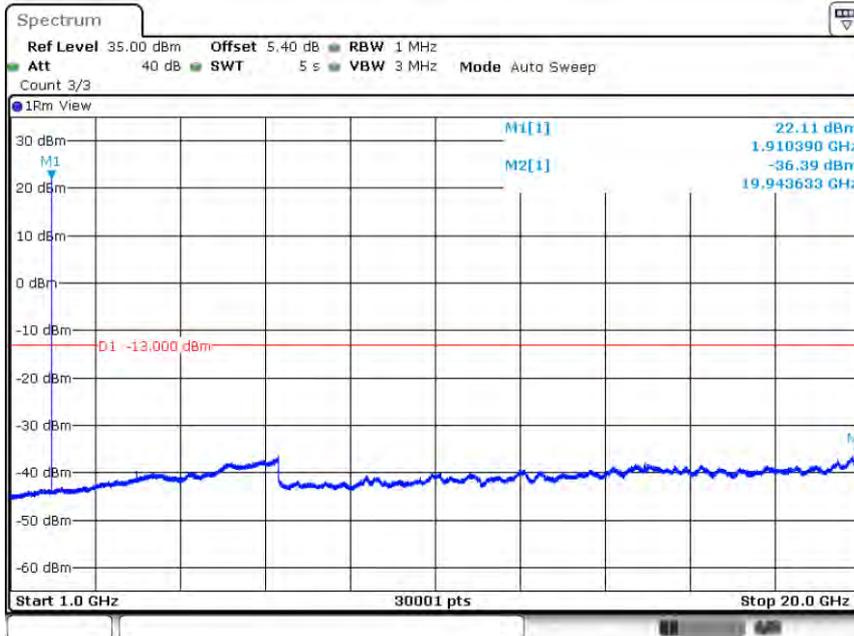


Date: 16.OCT.2020 15:21:18



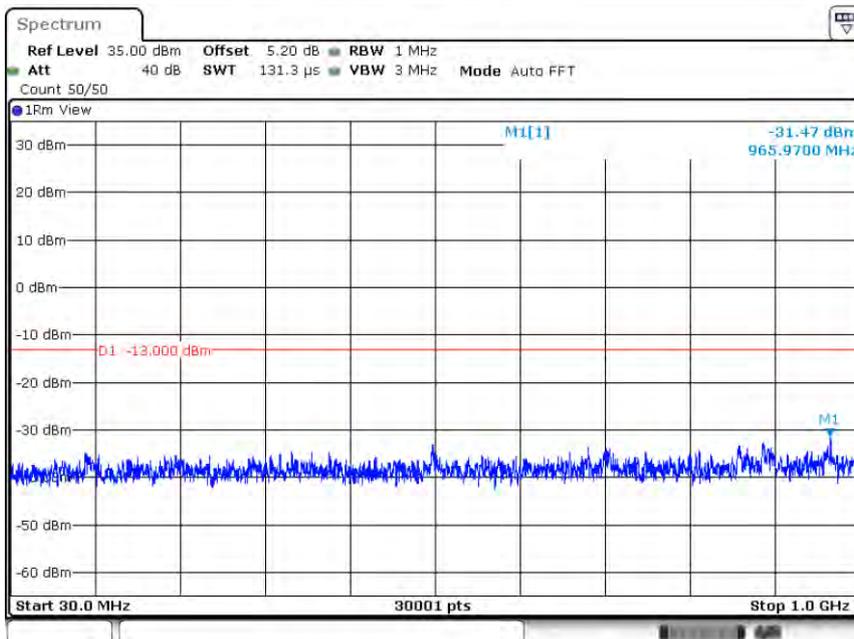
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**GSM1900-661-1000~20000MHz**



Date: 16.OCT.2020 15:21:41

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

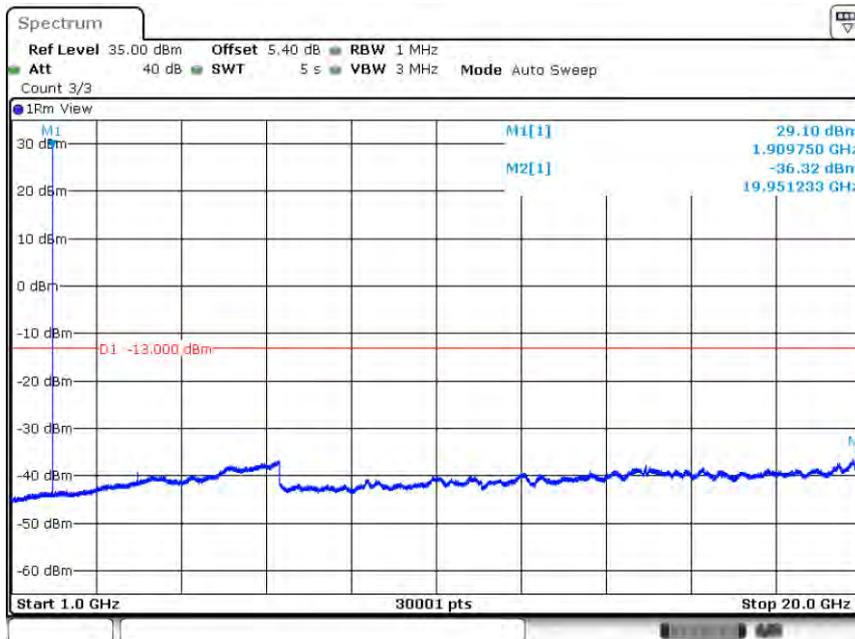


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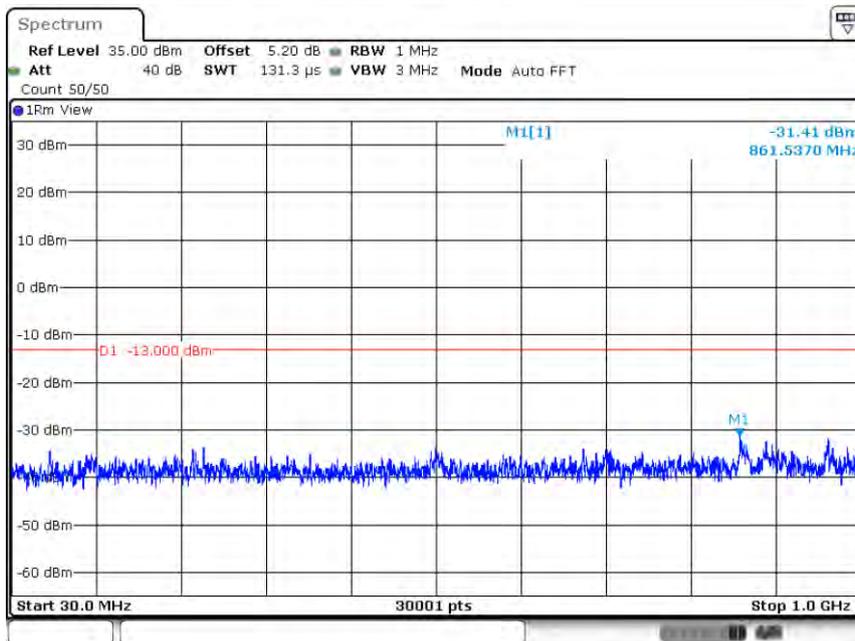
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**GSM1900-810-1000~20000MHz**



Date: 16.OCT.2020 15:22:14

**EGPRS1900-512-30~1000MHz**

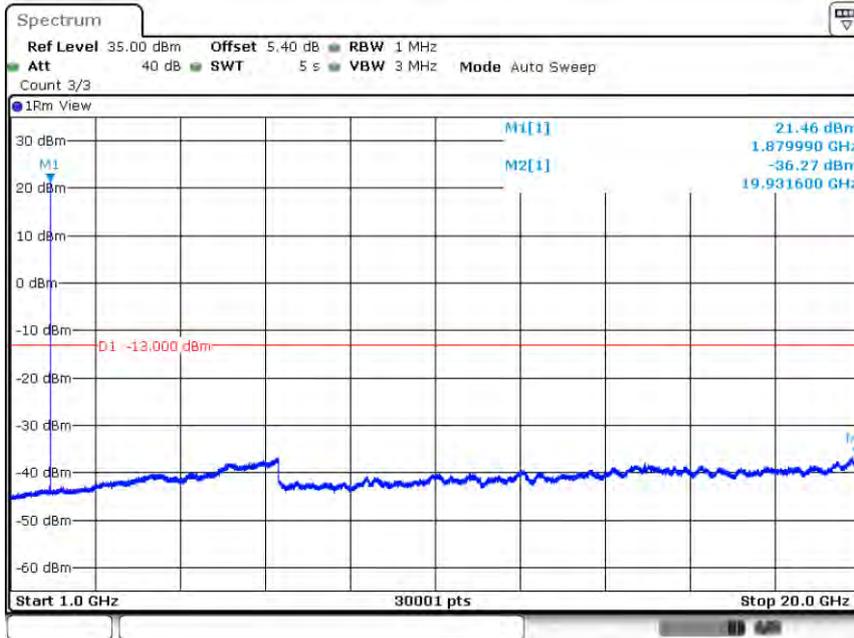


Date: 16.OCT.2020 16:43:16



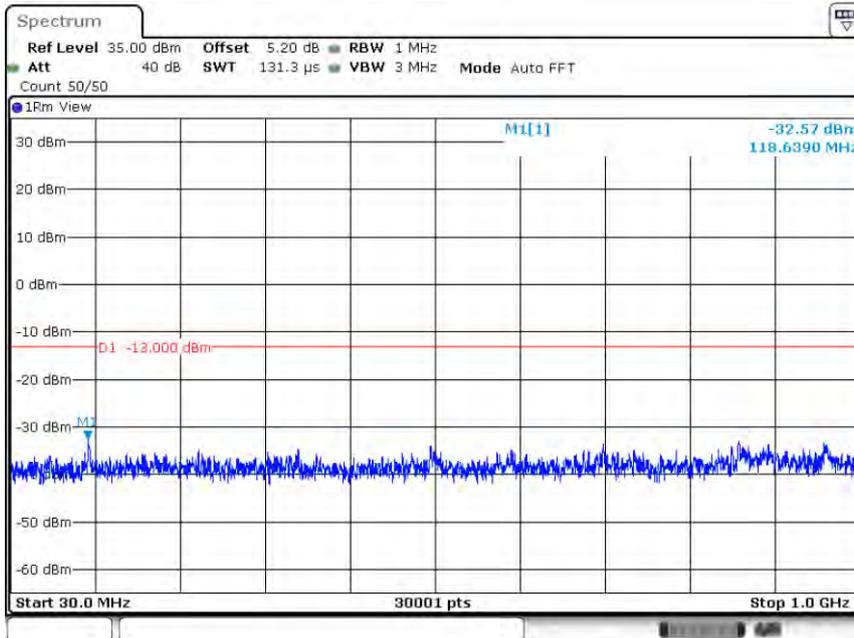
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**EGPRS1900-512-1000~20000MHz**



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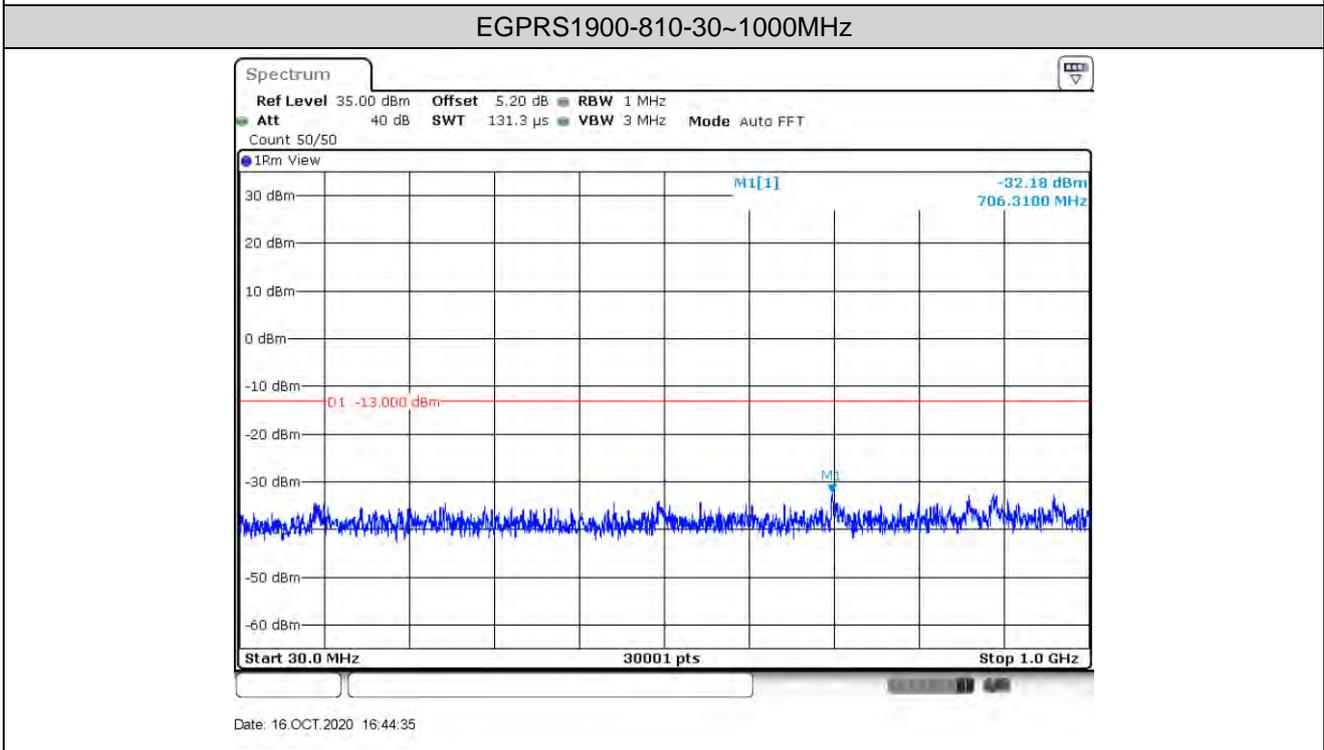
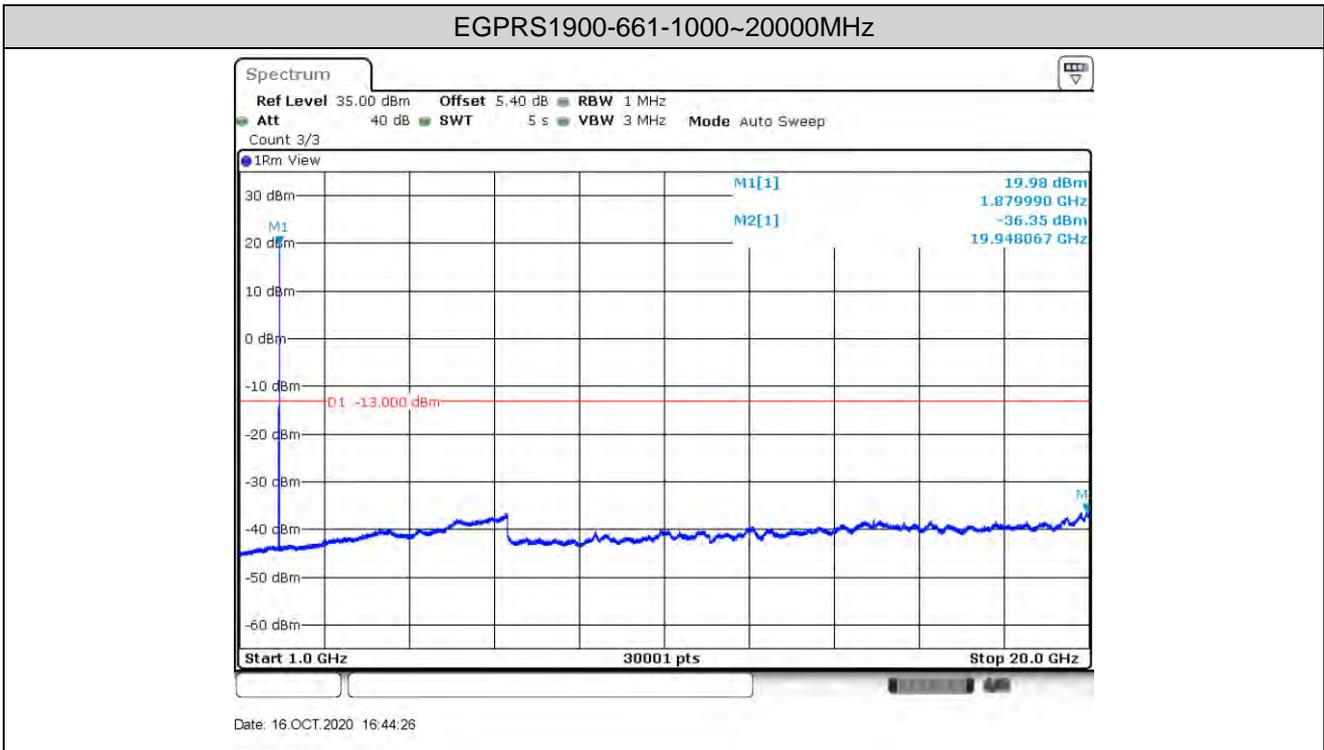
**EGPRS1900-661-30~1000MHz**



Date: 16.OCT.2020 16:43:53



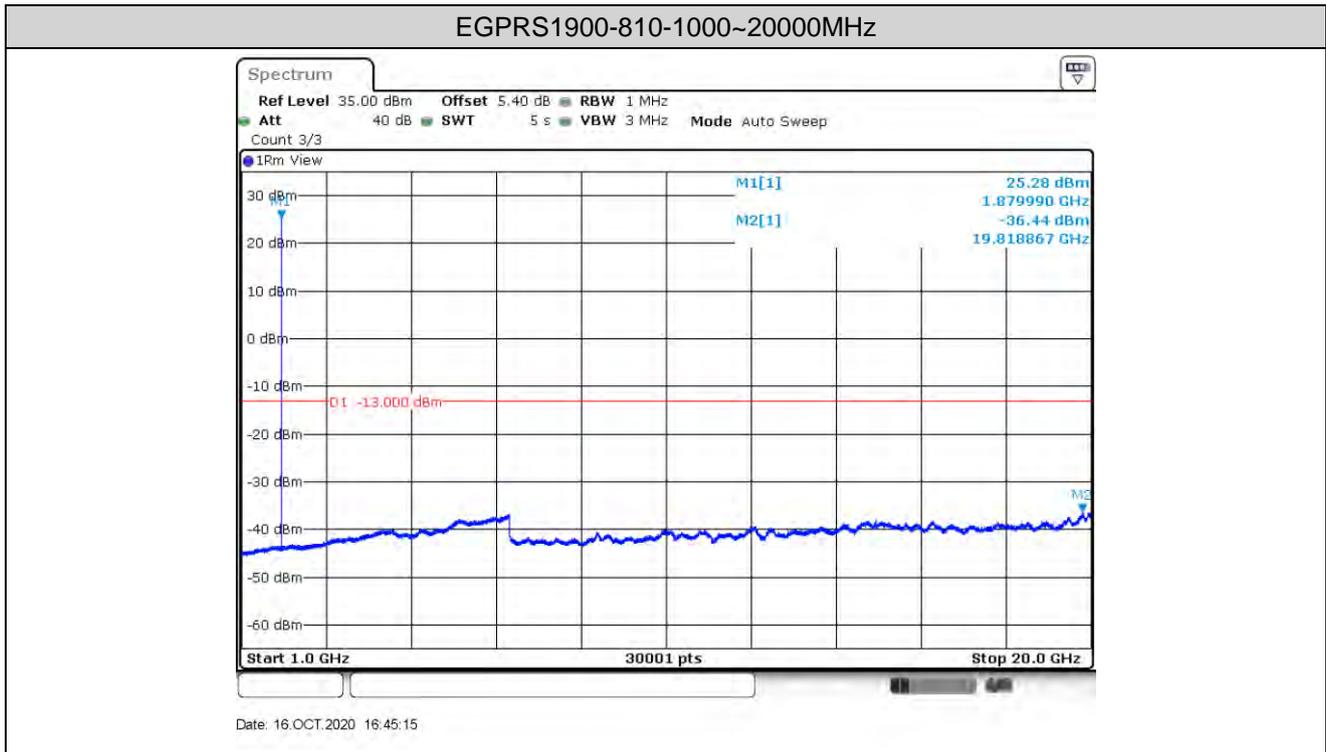
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## 7. Field Strength of Spurious Radiation

### 7.1. Test Band = GSM 1900(ANT1)

#### 7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
30.6790	-75.95	-13.00	62.95	Vertical
112.2116	-64.80	-13.00	51.80	Vertical
584.7222	-64.04	-13.00	51.04	Vertical
3700.5234	-54.60	-13.00	41.60	Vertical
5550.0850	-46.67	-13.00	33.67	Vertical
17997.4999	-40.55	-13.00	27.55	Vertical
39.7490	-64.67	-13.00	51.67	Horizontal
82.3341	-75.90	-13.00	62.90	Horizontal
227.6474	-68.45	-13.00	55.45	Horizontal
3700.5234	-53.94	-13.00	40.94	Horizontal
5550.5850	-52.66	-13.00	39.66	Horizontal
16389.4463	-43.85	-13.00	30.85	Horizontal

#### 7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
30.4365	-76.21	-13.00	63.21	Vertical
115.1703	-65.04	-13.00	52.04	Vertical
470.2565	-66.06	-13.00	53.06	Vertical
3760.0253	-59.77	-13.00	46.77	Vertical
5640.0880	-51.14	-13.00	38.14	Vertical
17999.5000	-39.91	-13.00	26.91	Vertical
42.3681	-64.41	-13.00	51.41	Horizontal
100.9105	-75.39	-13.00	62.39	Horizontal
234.8257	-68.71	-13.00	55.71	Horizontal
3760.0253	-54.27	-13.00	41.27	Horizontal
5640.0880	-52.46	-13.00	39.46	Horizontal
16399.4466	-44.00	-13.00	31.00	Horizontal



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**7.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
31.3581	-75.95	-13.00	62.95	Vertical
115.2673	-65.18	-13.00	52.18	Vertical
597.7209	-64.01	-13.00	51.01	Vertical
3819.5273	-56.37	-13.00	43.37	Vertical
5729.5910	-52.99	-13.00	39.99	Vertical
17988.4996	-40.43	-13.00	27.43	Vertical
39.4580	-64.52	-13.00	51.52	Horizontal
102.6081	-76.03	-13.00	63.03	Horizontal
229.3450	-67.92	-13.00	54.92	Horizontal
3819.5273	-55.34	-13.00	42.34	Horizontal
5729.5910	-53.38	-13.00	40.38	Horizontal
16369.4456	-43.74	-13.00	30.74	Horizontal

**7.2. Test Band = GSM 850(ANT1)**

**7.2.1. Test Channel = LCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
30.0970	-74.66	-13.00	61.66	Vertical
110.1260	-64.33	-13.00	51.33	Vertical
1648.1296	-44.89	-13.00	31.89	Vertical
2472.6945	-37.81	-13.00	24.81	Vertical
3476.2492	-58.63	-13.00	45.63	Vertical
4121.4374	-56.52	-13.00	43.52	Vertical
44.6962	-63.60	-13.00	50.60	Horizontal
230.2665	-67.71	-13.00	54.71	Horizontal
1648.1296	-46.08	-13.00	33.08	Horizontal
2472.6945	-35.90	-13.00	22.90	Horizontal
3296.8099	-54.77	-13.00	41.77	Horizontal
4121.6707	-59.25	-13.00	46.25	Horizontal



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**7.2.2. Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
30.4850	-75.05	-13.00	62.05	Vertical
107.7494	-64.37	-13.00	51.37	Vertical
1672.9346	-45.93	-13.00	32.93	Vertical
2509.9020	-38.50	-13.00	25.50	Vertical
3346.5116	-61.18	-13.00	48.18	Vertical
4182.8061	-61.40	-13.00	48.40	Vertical
44.1142	-63.87	-13.00	50.87	Horizontal
101.0076	-75.66	-13.00	62.66	Horizontal
235.5533	-67.90	-13.00	54.90	Horizontal
1673.3347	-46.62	-13.00	33.62	Horizontal
2509.9020	-33.99	-13.00	20.99	Horizontal
3346.0449	-59.52	-13.00	46.52	Horizontal

**7.2.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
31.4066	-75.09	-13.00	62.09	Vertical
110.9991	-63.95	-13.00	50.95	Vertical
1697.7395	-48.72	-13.00	35.72	Vertical
2546.3093	-40.66	-13.00	27.66	Vertical
3395.5132	-60.60	-13.00	47.60	Vertical
9822.4274	-52.34	-13.00	39.34	Vertical
42.6591	-63.95	-13.00	50.95	Horizontal
104.9362	-75.20	-13.00	62.20	Horizontal
235.9413	-67.80	-13.00	54.80	Horizontal
1697.3395	-48.86	-13.00	35.86	Horizontal
2546.3093	-39.89	-13.00	26.89	Horizontal
3395.2798	-60.16	-13.00	47.16	Horizontal



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**7.3. Test Band = GSM 1900(ANT2)**

**7.3.1. Test Channel = LCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
30.7275	-74.95	-13.00	61.95	Vertical
108.8164	-64.51	-13.00	51.51	Vertical
605.4813	-63.00	-13.00	50.00	Vertical
3700.5234	-49.67	-13.00	36.67	Vertical
5550.5850	-46.67	-13.00	33.67	Vertical
17999.5000	-40.51	-13.00	27.51	Vertical
42.3196	-64.43	-13.00	51.43	Horizontal
103.0932	-75.28	-13.00	62.28	Horizontal
235.4078	-68.93	-13.00	55.93	Horizontal
3700.5234	-49.32	-13.00	36.32	Horizontal
5550.5850	-51.12	-13.00	38.12	Horizontal
16366.4455	-44.37	-13.00	31.37	Horizontal

**7.3.2. Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
30.1455	-74.79	-13.00	61.79	Vertical
110.1745	-65.05	-13.00	52.05	Vertical
602.4256	-63.83	-13.00	50.83	Vertical
3760.0253	-53.88	-13.00	40.88	Vertical
5640.0880	-48.81	-13.00	35.81	Vertical
17993.9998	-40.47	-13.00	27.47	Vertical
42.3196	-64.06	-13.00	51.06	Horizontal
88.8819	-75.00	-13.00	62.00	Horizontal
235.9413	-68.89	-13.00	55.89	Horizontal
3760.0253	-50.57	-13.00	37.57	Horizontal
5640.0880	-53.50	-13.00	40.50	Horizontal
16399.9467	-43.90	-13.00	30.90	Horizontal



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**7.3.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
30.5820	-74.62	-13.00	61.62	Vertical
111.6781	-65.25	-13.00	52.25	Vertical
390.0335	-66.94	-13.00	53.94	Vertical
3819.5273	-54.52	-13.00	41.52	Vertical
7380.1460	-56.17	-13.00	43.17	Vertical
17990.4997	-40.40	-13.00	27.40	Vertical
43.9687	-64.10	-13.00	51.10	Horizontal
106.2943	-75.74	-13.00	62.74	Horizontal
242.3921	-67.83	-13.00	54.83	Horizontal
3819.5273	-54.17	-13.00	41.17	Horizontal
5729.5910	-53.36	-13.00	40.36	Horizontal
16383.9461	-44.06	-13.00	31.06	Horizontal

**7.4. Test Band = GSM 850(ANT2)**

**7.4.1. Test Channel = LCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
30.3880	-74.73	-13.00	61.73	Vertical
110.9991	-64.34	-13.00	51.34	Vertical
427.6229	-66.52	-13.00	53.52	Vertical
1648.1296	-47.20	-13.00	34.20	Vertical
2473.0946	-36.48	-13.00	23.48	Vertical
3296.8099	-60.11	-13.00	47.11	Vertical
44.7447	-64.53	-13.00	51.53	Horizontal
99.4070	-75.12	-13.00	62.12	Horizontal
243.3622	-67.42	-13.00	54.42	Horizontal
1648.1296	-45.76	-13.00	32.76	Horizontal
2472.6945	-36.73	-13.00	23.73	Horizontal
3296.8099	-56.25	-13.00	43.25	Horizontal



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**7.4.2. Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
30.6305	-74.33	-13.00	61.33	Vertical
113.0847	-64.31	-13.00	51.31	Vertical
345.3628	-68.31	-13.00	55.31	Vertical
1672.9346	-47.92	-13.00	34.92	Vertical
2509.9020	-34.17	-13.00	21.17	Vertical
3346.2782	-61.27	-13.00	48.27	Vertical
43.6292	-63.92	-13.00	50.92	Horizontal
112.9391	-74.23	-13.00	61.23	Horizontal
228.9084	-67.82	-13.00	54.82	Horizontal
1672.9346	-45.46	-13.00	32.46	Horizontal
2509.9020	-33.55	-13.00	20.55	Horizontal
3346.2782	-58.30	-13.00	45.30	Horizontal

**7.4.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
30.0485	-74.75	-13.00	61.75	Vertical
113.7152	-64.87	-13.00	51.87	Vertical
384.3102	-66.80	-13.00	53.80	Vertical
1697.7395	-51.07	-13.00	38.07	Vertical
2546.7093	-42.28	-13.00	29.28	Vertical
3395.2798	-60.42	-13.00	47.42	Vertical
42.8531	-63.47	-13.00	50.47	Horizontal
99.7465	-75.50	-13.00	62.50	Horizontal
232.5461	-67.23	-13.00	54.23	Horizontal
1697.3395	-46.96	-13.00	33.96	Horizontal
2546.7093	-41.30	-13.00	28.30	Horizontal
3395.2798	-60.49	-13.00	47.49	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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## 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	17.14	0.020796	±2.5	PASS
GSM850	128	VN	NT	13.27	0.016100	±2.5	PASS
GSM850	128	VH	NT	13.04	0.015821	±2.5	PASS
GSM850	190	VL	NT	24.99	0.029871	±2.5	PASS
GSM850	190	VN	NT	22.15	0.026476	±2.5	PASS
GSM850	190	VH	NT	17.98	0.021492	±2.5	PASS
GSM850	251	VL	NT	16.89	0.019899	±2.5	PASS
GSM850	251	VN	NT	13.75	0.016199	±2.5	PASS
GSM850	251	VH	NT	20.40	0.024034	±2.5	PASS
EGPRS850	128	VL	NT	28.25	0.034276	±2.5	PASS
EGPRS850	128	VN	NT	29.15	0.035368	±2.5	PASS
EGPRS850	128	VH	NT	31.54	0.038267	±2.5	PASS
EGPRS850	190	VL	NT	33.48	0.040019	±2.5	PASS
EGPRS850	190	VN	NT	33.64	0.040210	±2.5	PASS
EGPRS850	190	VH	NT	37.03	0.044262	±2.5	PASS
EGPRS850	251	VL	NT	31.38	0.036970	±2.5	PASS
EGPRS850	251	VN	NT	33.67	0.039668	±2.5	PASS
EGPRS850	251	VH	NT	32.12	0.037842	±2.5	PASS
GSM1900	512	VL	NT	32.64	0.017641	±2.5	PASS
GSM1900	512	VN	NT	38.07	0.020576	±2.5	PASS
GSM1900	512	VH	NT	41.04	0.022181	±2.5	PASS
GSM1900	661	VL	NT	24.21	0.012878	±2.5	PASS
GSM1900	661	VN	NT	23.89	0.012707	±2.5	PASS
GSM1900	661	VH	NT	26.86	0.014287	±2.5	PASS
GSM1900	810	VL	NT	10.20	0.005341	±2.5	PASS
GSM1900	810	VN	NT	14.75	0.007723	±2.5	PASS
GSM1900	810	VH	NT	8.20	0.004294	±2.5	PASS
EGPRS1900	512	VL	NT	54.69	0.029559	±2.5	PASS
EGPRS1900	512	VN	NT	52.40	0.028321	±2.5	PASS
EGPRS1900	512	VH	NT	55.05	0.029754	±2.5	PASS



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EGPRS1900	661	VL	NT	33.84	0.018000	±2.5	PASS
EGPRS1900	661	VN	NT	41.52	0.022085	±2.5	PASS
EGPRS1900	661	VH	NT	36.74	0.019543	±2.5	PASS
EGPRS1900	810	VL	NT	27.96	0.014640	±2.5	PASS
EGPRS1900	810	VN	NT	25.89	0.013556	±2.5	PASS
EGPRS1900	810	VH	NT	28.28	0.014808	±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	17.27	0.020954	±2.5	PASS
GSM850	128	NV	-20	15.59	0.018915	±2.5	PASS
GSM850	128	NV	-10	14.46	0.017544	±2.5	PASS
GSM850	128	NV	0	17.69	0.021463	±2.5	PASS
GSM850	128	NV	10	17.11	0.020760	±2.5	PASS
GSM850	128	NV	20	21.15	0.025661	±2.5	PASS
GSM850	128	NV	30	20.63	0.025030	±2.5	PASS
GSM850	128	NV	40	14.69	0.017823	±2.5	PASS
GSM850	128	NV	50	20.02	0.024290	±2.5	PASS
GSM850	190	NV	-30	20.31	0.024277	±2.5	PASS
GSM850	190	NV	-20	17.92	0.021420	±2.5	PASS
GSM850	190	NV	-10	19.44	0.023237	±2.5	PASS
GSM850	190	NV	0	22.31	0.026667	±2.5	PASS
GSM850	190	NV	10	22.21	0.026548	±2.5	PASS
GSM850	190	NV	20	24.73	0.029560	±2.5	PASS
GSM850	190	NV	30	17.53	0.020954	±2.5	PASS
GSM850	190	NV	40	16.08	0.019221	±2.5	PASS
GSM850	190	NV	50	20.05	0.023966	±2.5	PASS
GSM850	251	NV	-30	18.69	0.022019	±2.5	PASS
GSM850	251	NV	-20	18.24	0.021489	±2.5	PASS
GSM850	251	NV	-10	18.85	0.022208	±2.5	PASS
GSM850	251	NV	0	17.18	0.020240	±2.5	PASS
GSM850	251	NV	10	14.92	0.017578	±2.5	PASS
GSM850	251	NV	20	14.56	0.017154	±2.5	PASS
GSM850	251	NV	30	16.01	0.018862	±2.5	PASS
GSM850	251	NV	40	14.72	0.017342	±2.5	PASS



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GSM850	251	NV	50	13.75	0.016199	±2.5	PASS
EGPRS850	128	NV	-30	31.35	0.038037	±2.5	PASS
EGPRS850	128	NV	-20	32.61	0.039566	±2.5	PASS
EGPRS850	128	NV	-10	29.93	0.036314	±2.5	PASS
EGPRS850	128	NV	0	32.41	0.039323	±2.5	PASS
EGPRS850	128	NV	10	31.61	0.038352	±2.5	PASS
EGPRS850	128	NV	20	32.12	0.038971	±2.5	PASS
EGPRS850	128	NV	30	27.67	0.033572	±2.5	PASS
EGPRS850	128	NV	40	31.70	0.038462	±2.5	PASS
EGPRS850	128	NV	50	30.32	0.036787	±2.5	PASS
EGPRS850	190	NV	-30	34.80	0.041597	±2.5	PASS
EGPRS850	190	NV	-20	35.48	0.042410	±2.5	PASS
EGPRS850	190	NV	-10	35.55	0.042493	±2.5	PASS
EGPRS850	190	NV	0	34.38	0.041095	±2.5	PASS
EGPRS850	190	NV	10	36.32	0.043414	±2.5	PASS
EGPRS850	190	NV	20	34.35	0.041059	±2.5	PASS
EGPRS850	190	NV	30	32.71	0.039099	±2.5	PASS
EGPRS850	190	NV	40	33.06	0.039517	±2.5	PASS
EGPRS850	190	NV	50	39.10	0.046737	±2.5	PASS
EGPRS850	251	NV	-30	33.19	0.039102	±2.5	PASS
EGPRS850	251	NV	-20	29.38	0.034614	±2.5	PASS
EGPRS850	251	NV	-10	32.35	0.038113	±2.5	PASS
EGPRS850	251	NV	0	31.48	0.037088	±2.5	PASS
EGPRS850	251	NV	10	33.22	0.039138	±2.5	PASS
EGPRS850	251	NV	20	31.58	0.037205	±2.5	PASS
EGPRS850	251	NV	30	30.22	0.035603	±2.5	PASS
EGPRS850	251	NV	40	33.35	0.039291	±2.5	PASS
EGPRS850	251	NV	50	32.19	0.037924	±2.5	PASS
GSM1900	512	NV	-30	28.83	0.015582	±2.5	PASS
GSM1900	512	NV	-20	39.84	0.021533	±2.5	PASS
GSM1900	512	NV	-10	35.77	0.019333	±2.5	PASS
GSM1900	512	NV	0	42.65	0.023052	±2.5	PASS
GSM1900	512	NV	10	35.32	0.019090	±2.5	PASS
GSM1900	512	NV	20	33.84	0.018290	±2.5	PASS
GSM1900	512	NV	30	36.94	0.019965	±2.5	PASS
GSM1900	512	NV	40	34.09	0.018425	±2.5	PASS
GSM1900	512	NV	50	40.13	0.021690	±2.5	PASS



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GSM1900	661	NV	-30	26.54	0.014117	±2.5	PASS
GSM1900	661	NV	-20	25.96	0.013809	±2.5	PASS
GSM1900	661	NV	-10	25.28	0.013447	±2.5	PASS
GSM1900	661	NV	0	22.15	0.011782	±2.5	PASS
GSM1900	661	NV	10	30.41	0.016176	±2.5	PASS
GSM1900	661	NV	20	24.31	0.012931	±2.5	PASS
GSM1900	661	NV	30	23.76	0.012638	±2.5	PASS
GSM1900	661	NV	40	23.96	0.012745	±2.5	PASS
GSM1900	661	NV	50	23.02	0.012245	±2.5	PASS
GSM1900	810	NV	-30	7.97	0.004173	±2.5	PASS
GSM1900	810	NV	-20	12.14	0.006357	±2.5	PASS
GSM1900	810	NV	-10	10.62	0.005561	±2.5	PASS
GSM1900	810	NV	0	9.04	0.004733	±2.5	PASS
GSM1900	810	NV	10	8.07	0.004226	±2.5	PASS
GSM1900	810	NV	20	12.33	0.006456	±2.5	PASS
GSM1900	810	NV	30	5.94	0.003110	±2.5	PASS
GSM1900	810	NV	40	6.84	0.003582	±2.5	PASS
GSM1900	810	NV	50	10.69	0.005597	±2.5	PASS
EGPRS1900	512	NV	-30	58.37	0.031548	±2.5	PASS
EGPRS1900	512	NV	-20	51.01	0.027570	±2.5	PASS
EGPRS1900	512	NV	-10	52.27	0.028251	±2.5	PASS
EGPRS1900	512	NV	0	51.98	0.028094	±2.5	PASS
EGPRS1900	512	NV	10	51.82	0.028008	±2.5	PASS
EGPRS1900	512	NV	20	55.37	0.029926	±2.5	PASS
EGPRS1900	512	NV	30	54.05	0.029213	±2.5	PASS
EGPRS1900	512	NV	40	52.53	0.028392	±2.5	PASS
EGPRS1900	512	NV	50	53.17	0.028737	±2.5	PASS
EGPRS1900	661	NV	-30	37.10	0.019734	±2.5	PASS
EGPRS1900	661	NV	-20	37.71	0.020059	±2.5	PASS
EGPRS1900	661	NV	-10	35.03	0.018633	±2.5	PASS
EGPRS1900	661	NV	0	36.39	0.019356	±2.5	PASS
EGPRS1900	661	NV	10	34.35	0.018271	±2.5	PASS
EGPRS1900	661	NV	20	40.65	0.021622	±2.5	PASS
EGPRS1900	661	NV	30	36.64	0.019489	±2.5	PASS
EGPRS1900	661	NV	40	37.29	0.019835	±2.5	PASS
EGPRS1900	661	NV	50	40.81	0.021707	±2.5	PASS
EGPRS1900	810	NV	-30	28.86	0.015112	±2.5	PASS



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EGPRS1900	810	NV	-20	30.22	0.015824	±2.5	PASS
EGPRS1900	810	NV	-10	30.12	0.015771	±2.5	PASS
EGPRS1900	810	NV	0	27.86	0.014588	±2.5	PASS
EGPRS1900	810	NV	10	24.89	0.013033	±2.5	PASS
EGPRS1900	810	NV	20	28.41	0.014876	±2.5	PASS
EGPRS1900	810	NV	30	28.19	0.014761	±2.5	PASS
EGPRS1900	810	NV	40	29.67	0.015536	±2.5	PASS
EGPRS1900	810	NV	50	27.77	0.014541	±2.5	PASS

The End



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