

# Appendix B

## GSM 850 & 1900

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

### 1.1. Test Result

**ANT0:**

Band	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	32.14	27.77	38.45	PASS
GSM850	190	---	33.07	28.7	38.45	PASS
GSM850	251	---	32.08	27.71	38.45	PASS
EGPRS850	128	1	26.16	21.79	38.45	PASS
EGPRS850	128	2	25.87	21.5	38.45	PASS
EGPRS850	128	3	23.87	19.5	38.45	PASS
EGPRS850	128	4	22.82	18.45	38.45	PASS
EGPRS850	190	1	26.07	21.7	38.45	PASS
EGPRS850	190	2	25.73	21.36	38.45	PASS
EGPRS850	190	3	23.79	19.42	38.45	PASS
EGPRS850	190	4	23.02	18.65	38.45	PASS
EGPRS850	251	1	26.01	21.64	38.45	PASS
EGPRS850	251	2	25.64	21.27	38.45	PASS
EGPRS850	251	3	23.81	19.44	38.45	PASS
EGPRS850	251	4	22.94	18.57	38.45	PASS

**ANT0:**

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	28.59	25.92	33.00	PASS
GSM1900	661	---	28.60	25.93	33.00	PASS
GSM1900	810	---	28.34	25.67	33.00	PASS
EGPRS1900	512	1	25.52	22.85	33.00	PASS
EGPRS1900	512	2	25.20	22.53	33.00	PASS
EGPRS1900	512	3	23.64	20.97	33.00	PASS
EGPRS1900	512	4	22.58	19.91	33.00	PASS
EGPRS1900	661	1	25.45	22.78	33.00	PASS
EGPRS1900	661	2	25.13	22.46	33.00	PASS
EGPRS1900	661	3	23.53	20.86	33.00	PASS
EGPRS1900	661	4	22.36	19.69	33.00	PASS
EGPRS1900	810	1	25.36	22.69	33.00	PASS
EGPRS1900	810	2	25.04	22.37	33.00	PASS
EGPRS1900	810	3	22.96	20.29	33.00	PASS
EGPRS1900	810	4	22.23	19.56	33.00	PASS

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**ANT1:**

Band	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	32.33	27.53	38.45	PASS
GSM850	190	---	32.24	27.44	38.45	PASS
GSM850	251	---	32.16	27.36	38.45	PASS
EGPRS850	128	1	26.42	21.62	38.45	PASS
EGPRS850	128	2	26.12	21.32	38.45	PASS
EGPRS850	128	3	24.41	19.61	38.45	PASS
EGPRS850	128	4	23.57	18.77	38.45	PASS
EGPRS850	190	1	26.47	21.67	38.45	PASS
EGPRS850	190	2	26.17	21.37	38.45	PASS
EGPRS850	190	3	24.42	19.62	38.45	PASS
EGPRS850	190	4	23.52	18.72	38.45	PASS
EGPRS850	251	1	26.45	21.65	38.45	PASS
EGPRS850	251	2	26.22	21.42	38.45	PASS
EGPRS850	251	3	24.39	19.59	38.45	PASS
EGPRS850	251	4	23.49	18.69	38.45	PASS

**ANT1:**

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	29.13	27.07	33.00	PASS
GSM1900	661	---	29.14	27.08	33.00	PASS
GSM1900	810	---	28.93	26.87	33.00	PASS
EGPRS1900	512	1	24.94	22.88	33.00	PASS
EGPRS1900	512	2	24.42	22.36	33.00	PASS
EGPRS1900	512	3	23.00	20.94	33.00	PASS
EGPRS1900	512	4	22.52	20.46	33.00	PASS
EGPRS1900	661	1	24.78	22.72	33.00	PASS
EGPRS1900	661	2	24.42	22.36	33.00	PASS
EGPRS1900	661	3	22.96	20.9	33.00	PASS
EGPRS1900	661	4	22.56	20.5	33.00	PASS
EGPRS1900	810	1	24.86	22.8	33.00	PASS
EGPRS1900	810	2	24.40	22.34	33.00	PASS
EGPRS1900	810	3	22.91	20.85	33.00	PASS
EGPRS1900	810	4	22.61	20.55	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	8.99	13	PASS
GSM850	190	8.96	13	PASS
GSM850	251	9.01	13	PASS
EGPRS850	128	11.83	13	PASS
EGPRS850	190	11.88	13	PASS
EGPRS850	251	12.72	13	PASS
GSM1900	512	9.86	13	PASS
GSM1900	661	8.99	13	PASS
GSM1900	810	9.04	13	PASS
EGPRS1900	512	12.78	13	PASS
EGPRS1900	661	11.88	13	PASS
EGPRS1900	810	11.86	13	PASS

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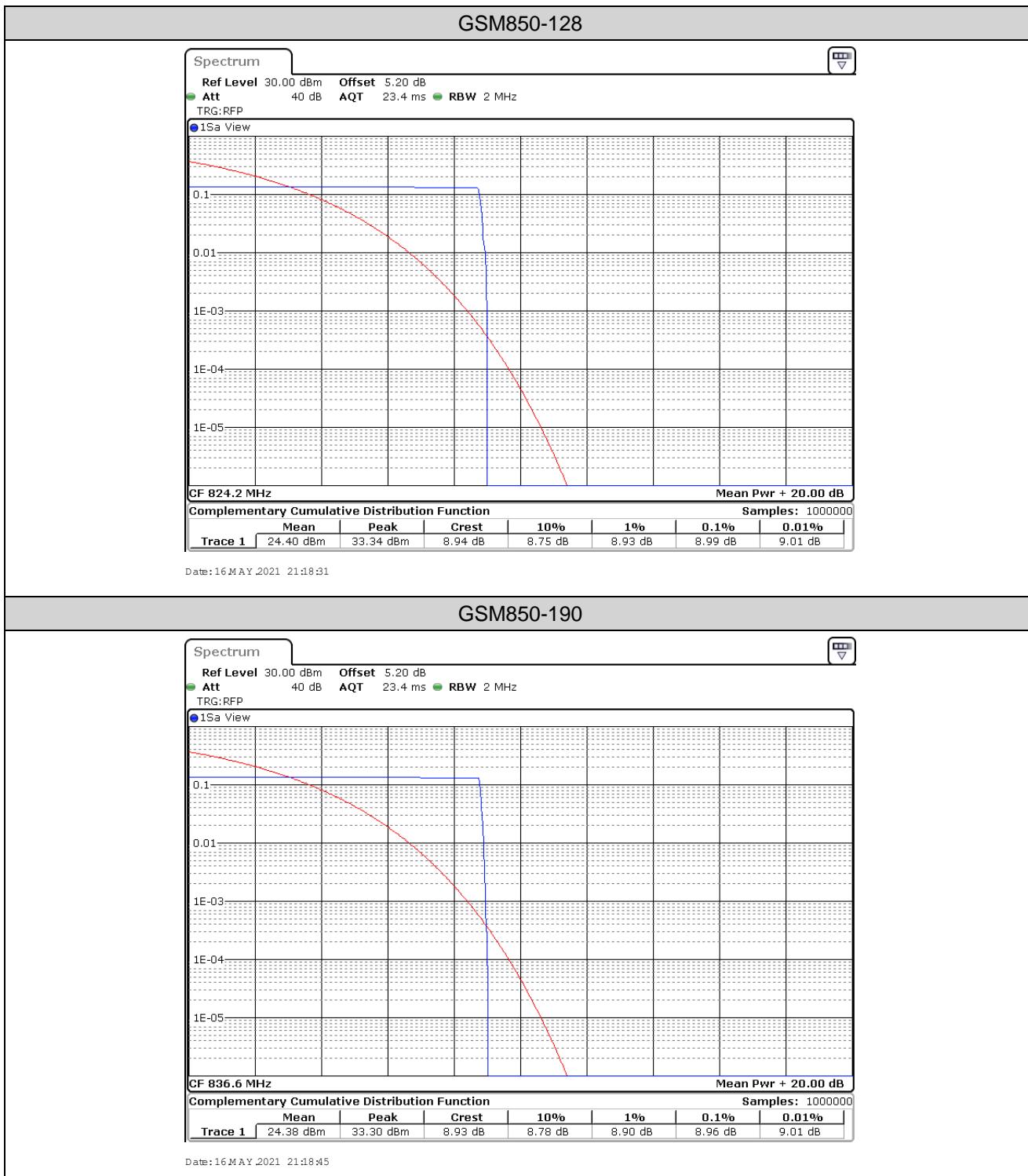
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## 2.2. Part II - Test Plots



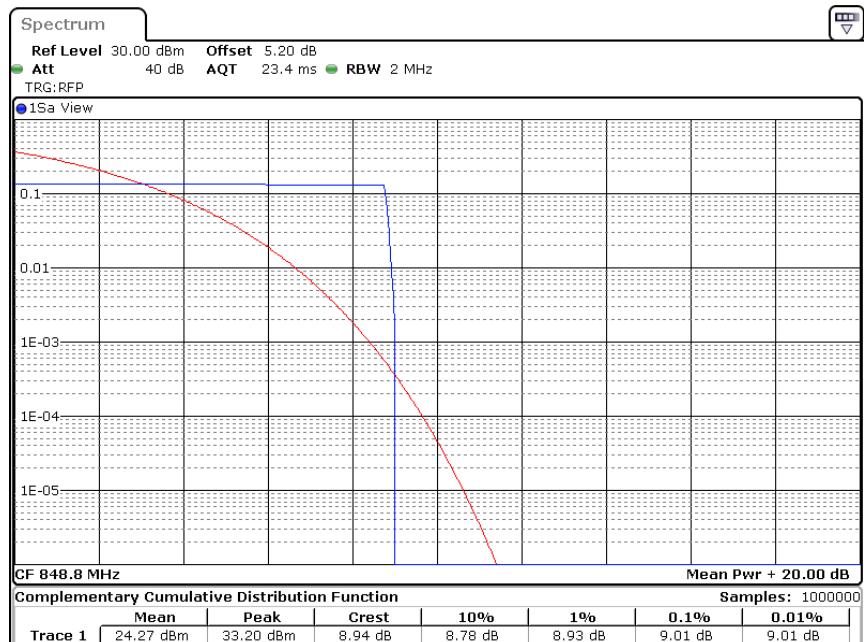
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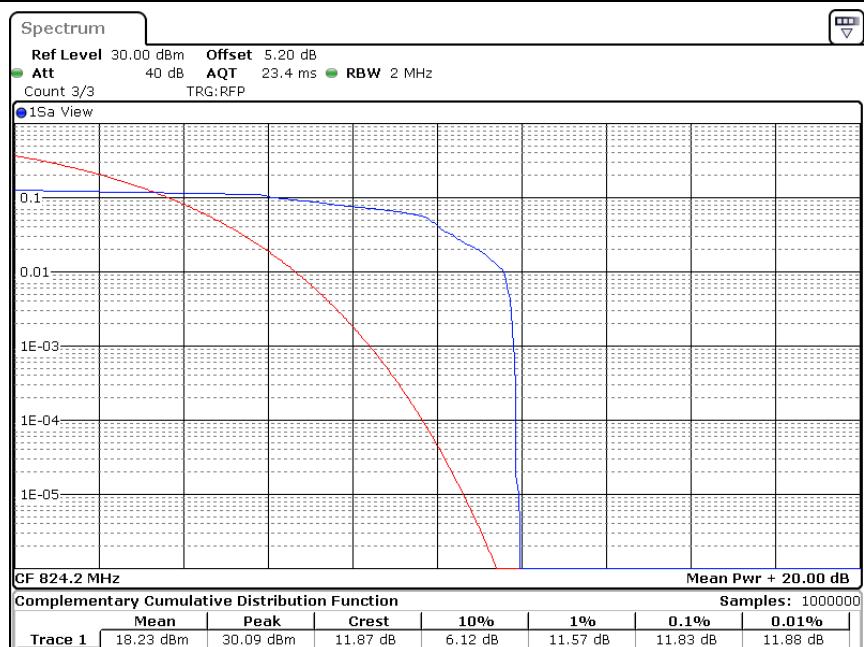
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## GSM850-251



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## EGPRS850-128



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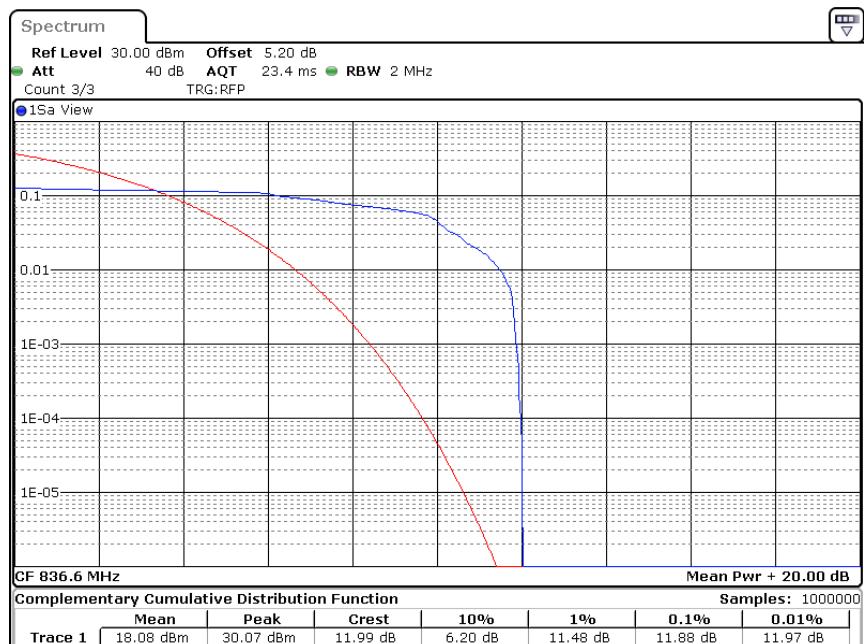
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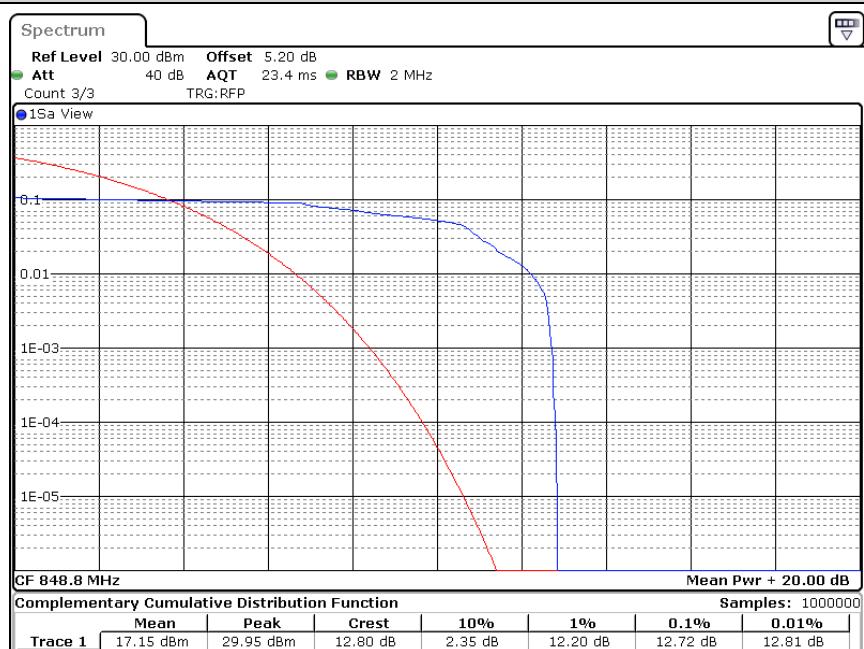
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## EGPRS850-251



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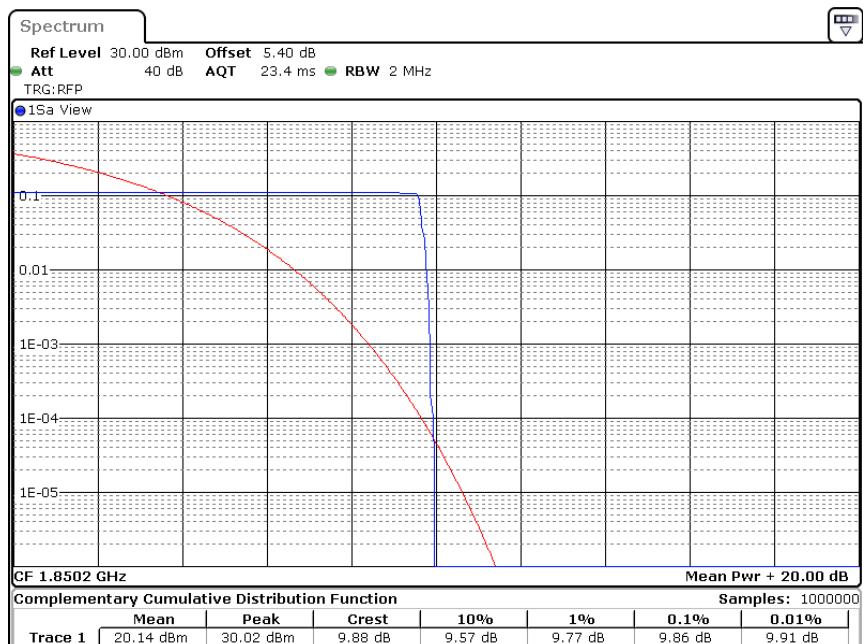
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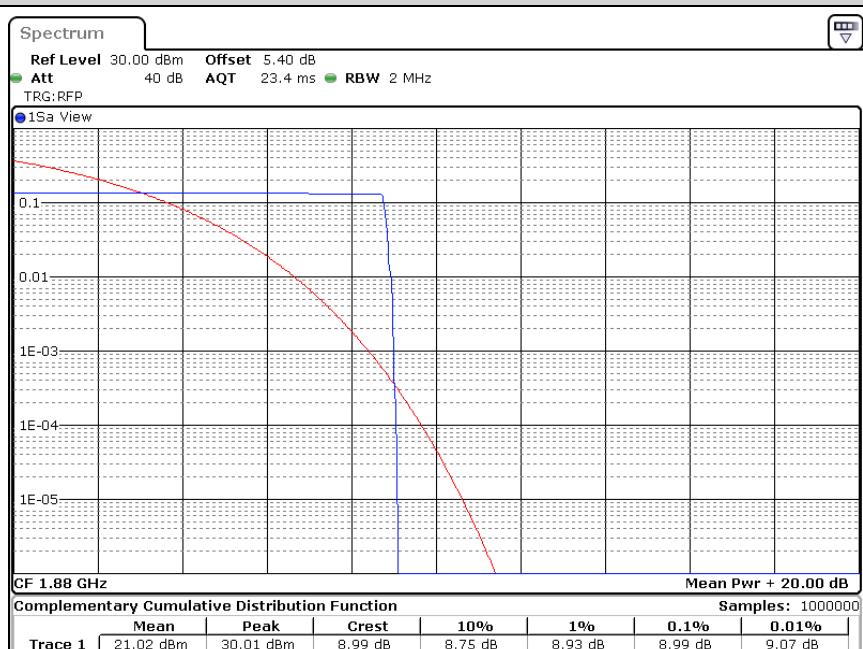
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## GSM1900-512



Date: 16 MAY 2021 21:00:46

## GSM1900-661



Date: 16 MAY 2021 21:01:01

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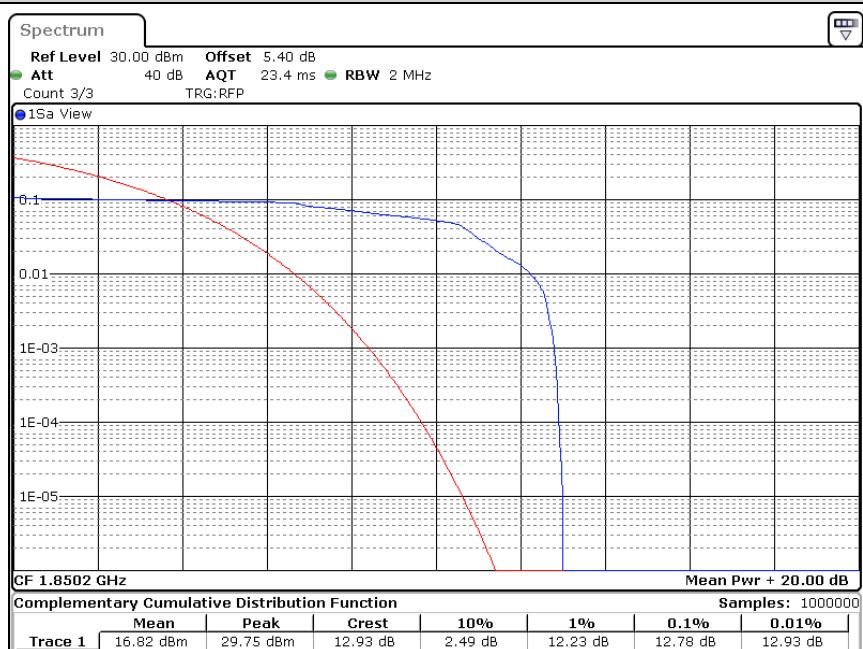
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## GSM1900-810



Date: 16 MAY 2021 21:01:15

## EGPRS1900-512



Date: 16 MAY 2021 21:06:14

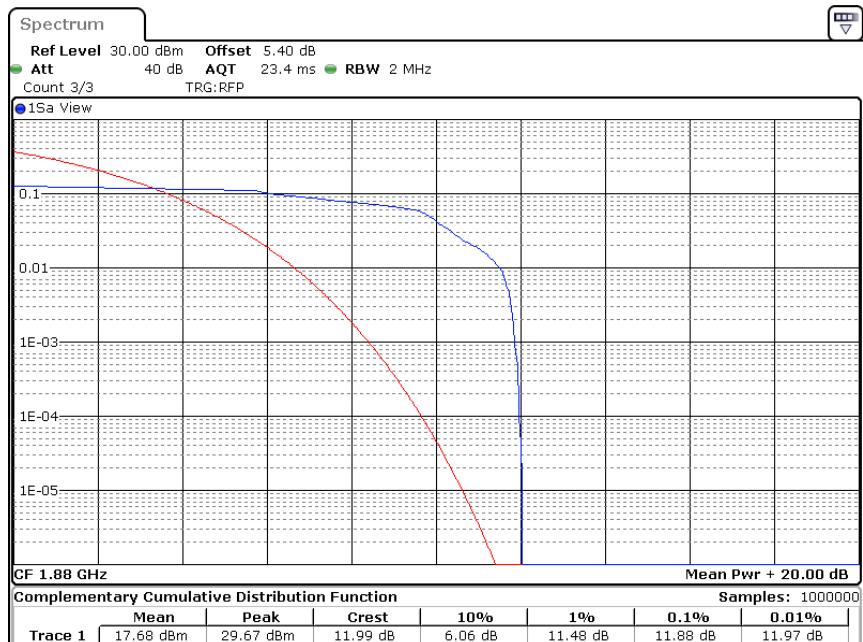
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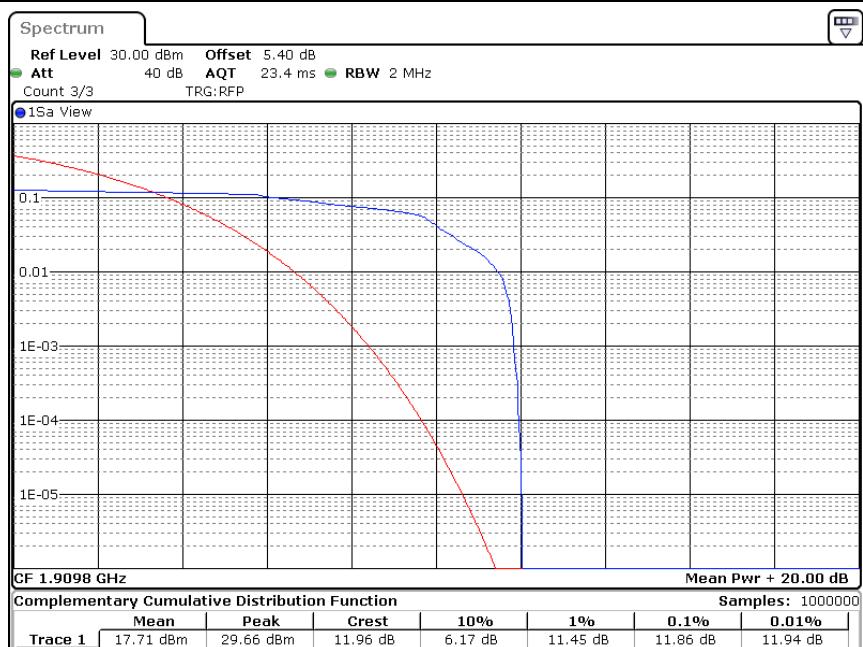
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## EGPRS1900-661



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## EGPRS1900-810



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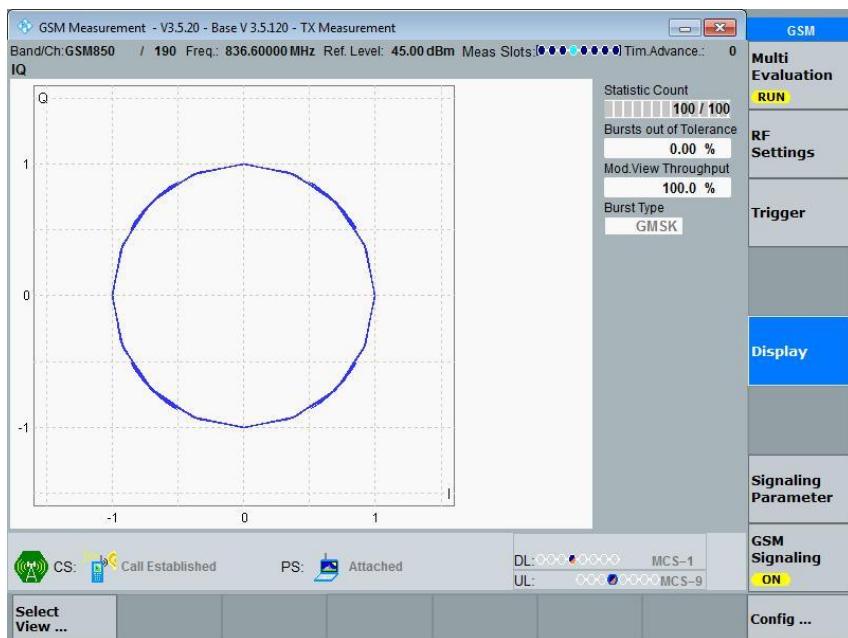
### 3. Modulation Characteristics

#### 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

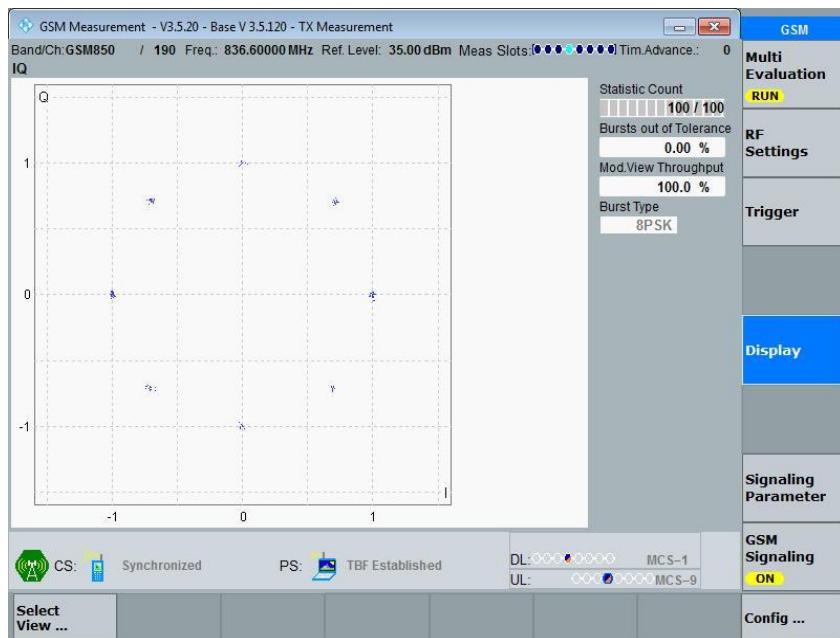


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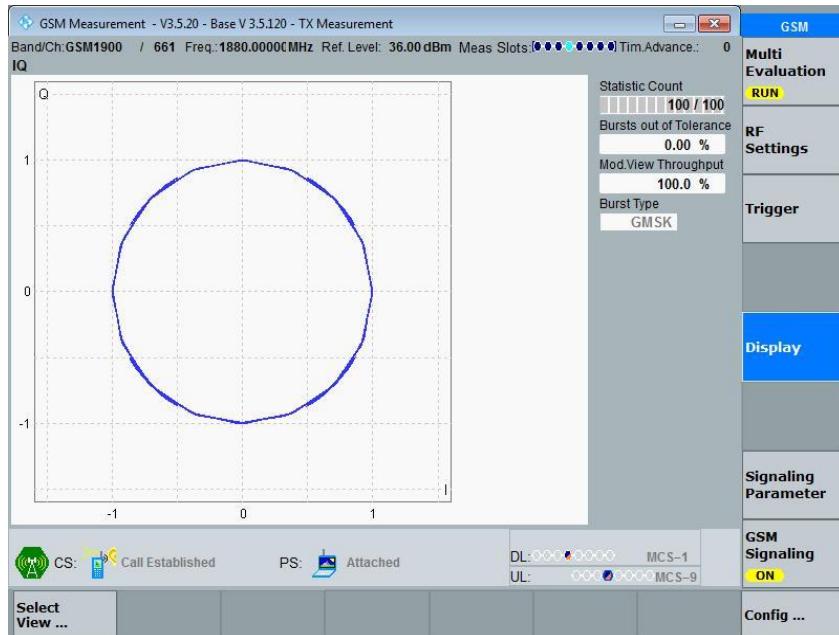
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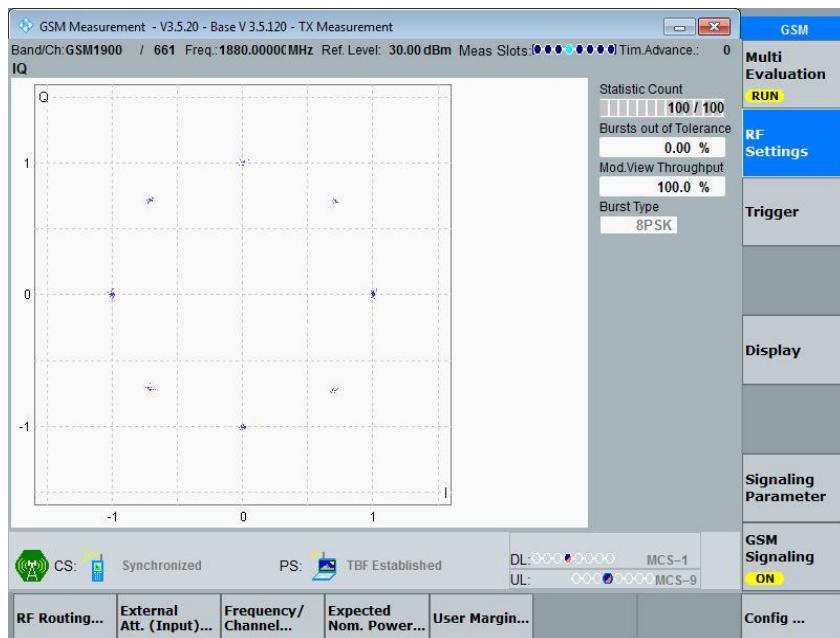
**3.1.2. Test Band = GSM 1900****3.1.2.1. Test Mode = GSM/TM1****3.1.2.1.1. Test Channel = MCH**

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**3.1.2.2. Test Mode = GSM/TM2****3.1.2.2.1. Test Channel = MCH**

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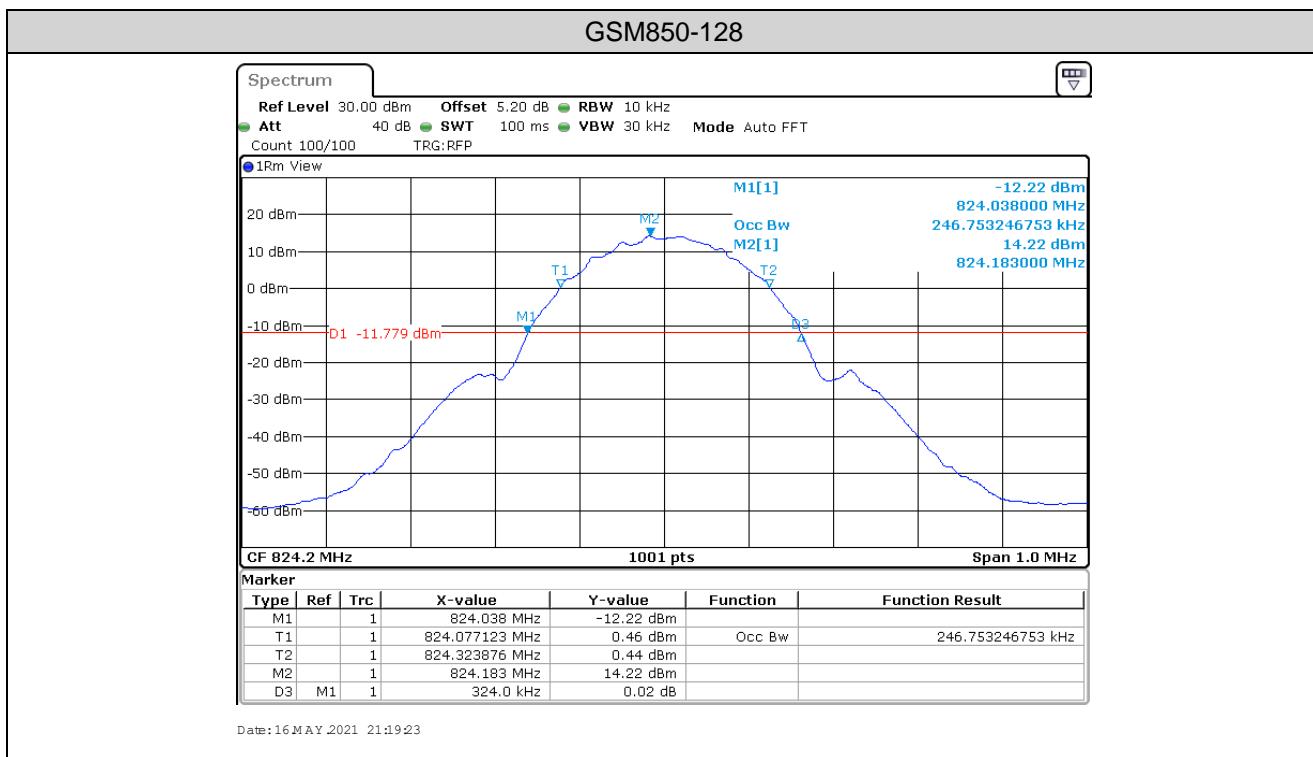
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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.247	0.324	---	PASS
GSM850	190	0.247	0.323	---	PASS
GSM850	251	0.247	0.323	---	PASS
EGPRS850	128	0.245	0.318	---	PASS
EGPRS850	190	0.244	0.317	---	PASS
EGPRS850	251	0.244	0.318	---	PASS
GSM1900	512	0.247	0.322	---	PASS
GSM1900	661	0.246	0.323	---	PASS
GSM1900	810	0.247	0.324	---	PASS
EGPRS1900	512	0.243	0.315	---	PASS
EGPRS1900	661	0.242	0.317	---	PASS
EGPRS1900	810	0.243	0.316	---	PASS

### 4.2. Test Plots

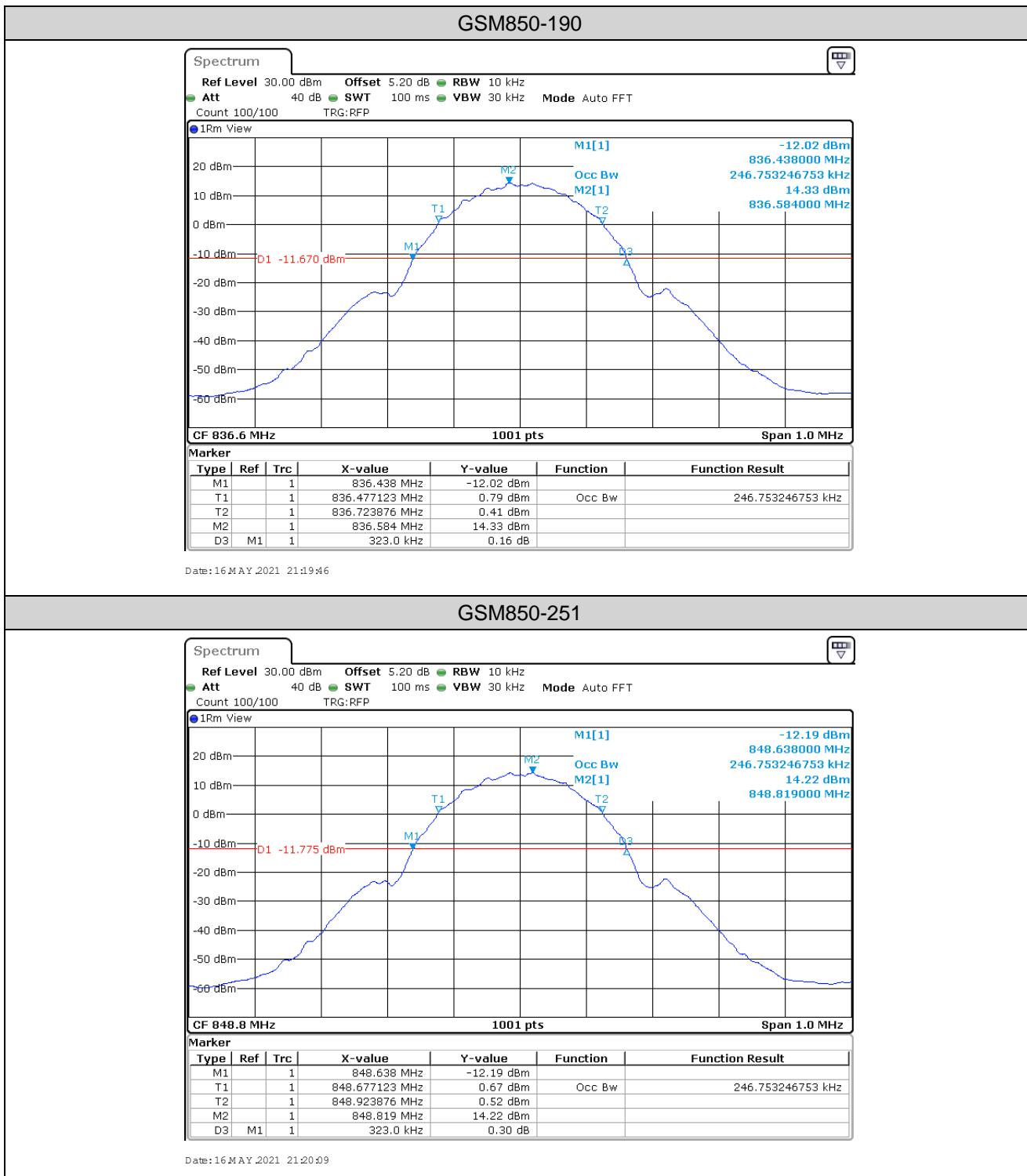


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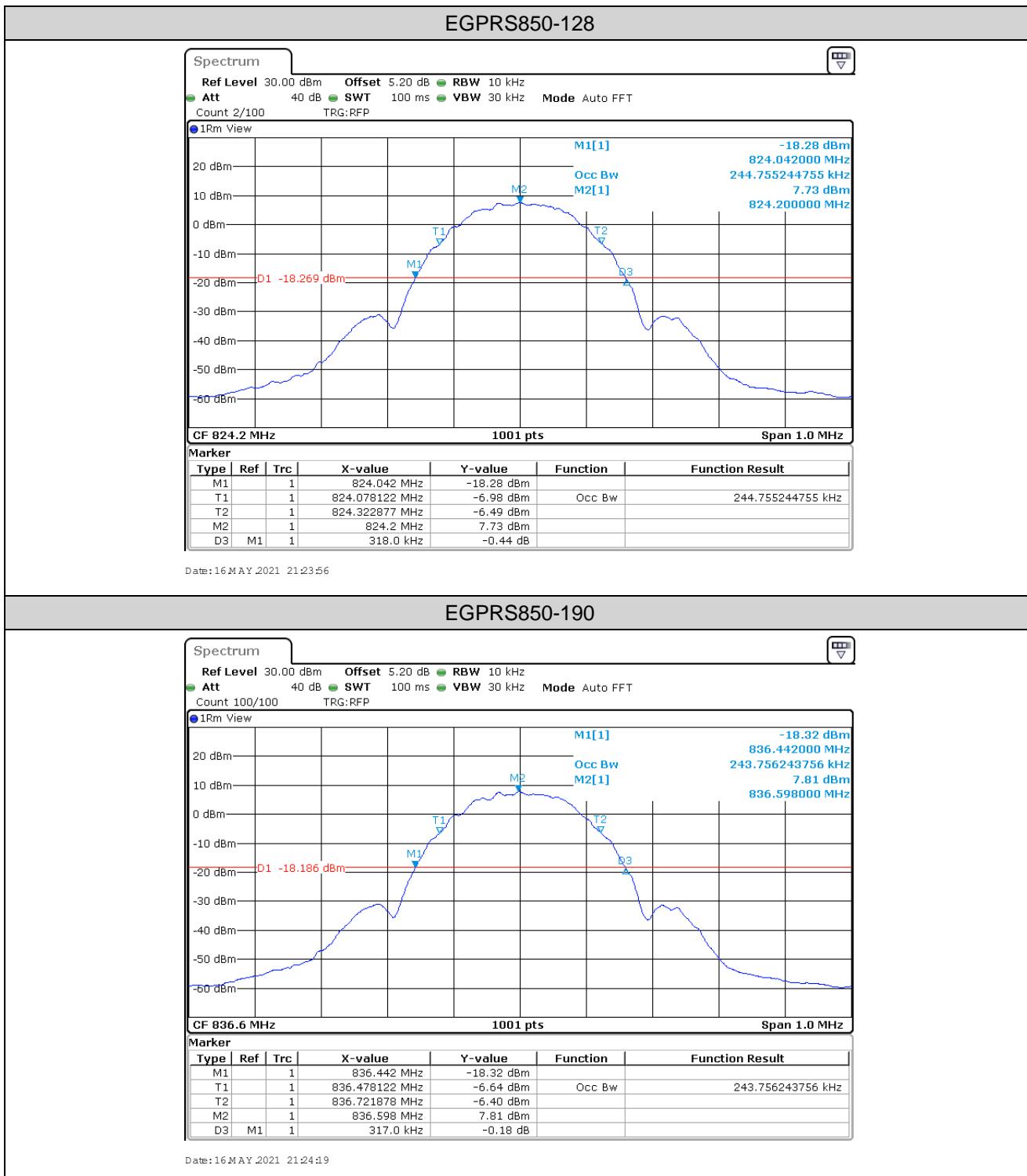


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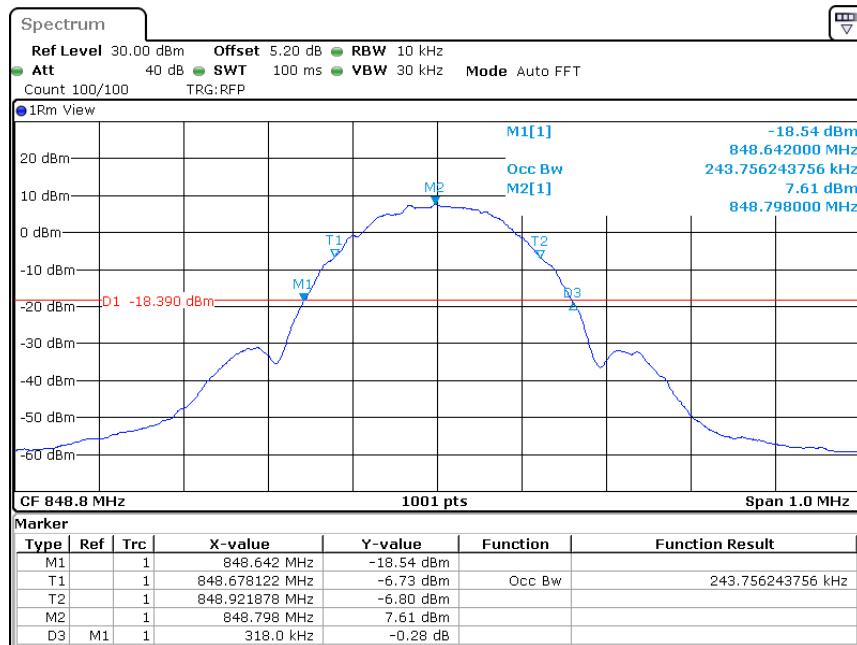


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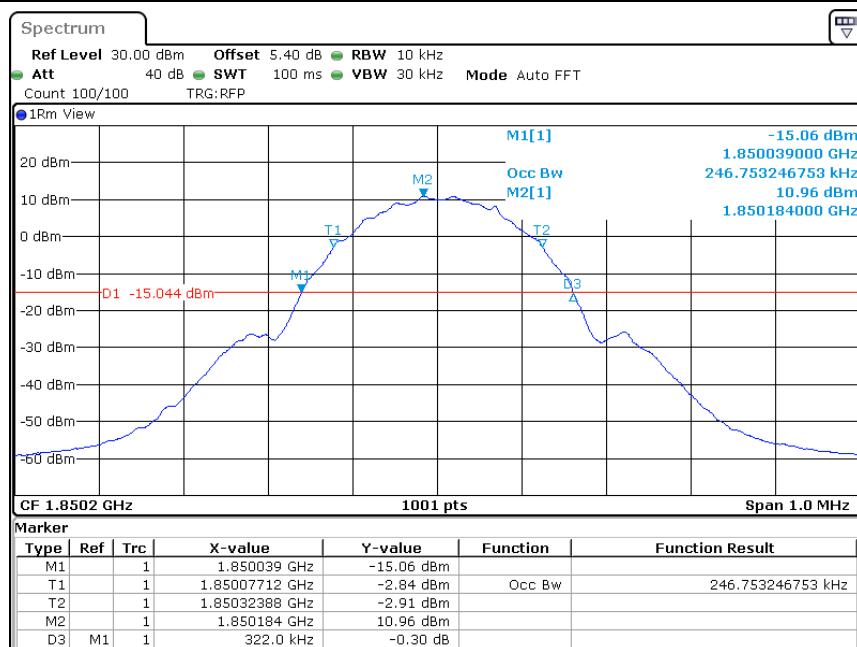


## EGPRS850-251



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## GSM1900-512



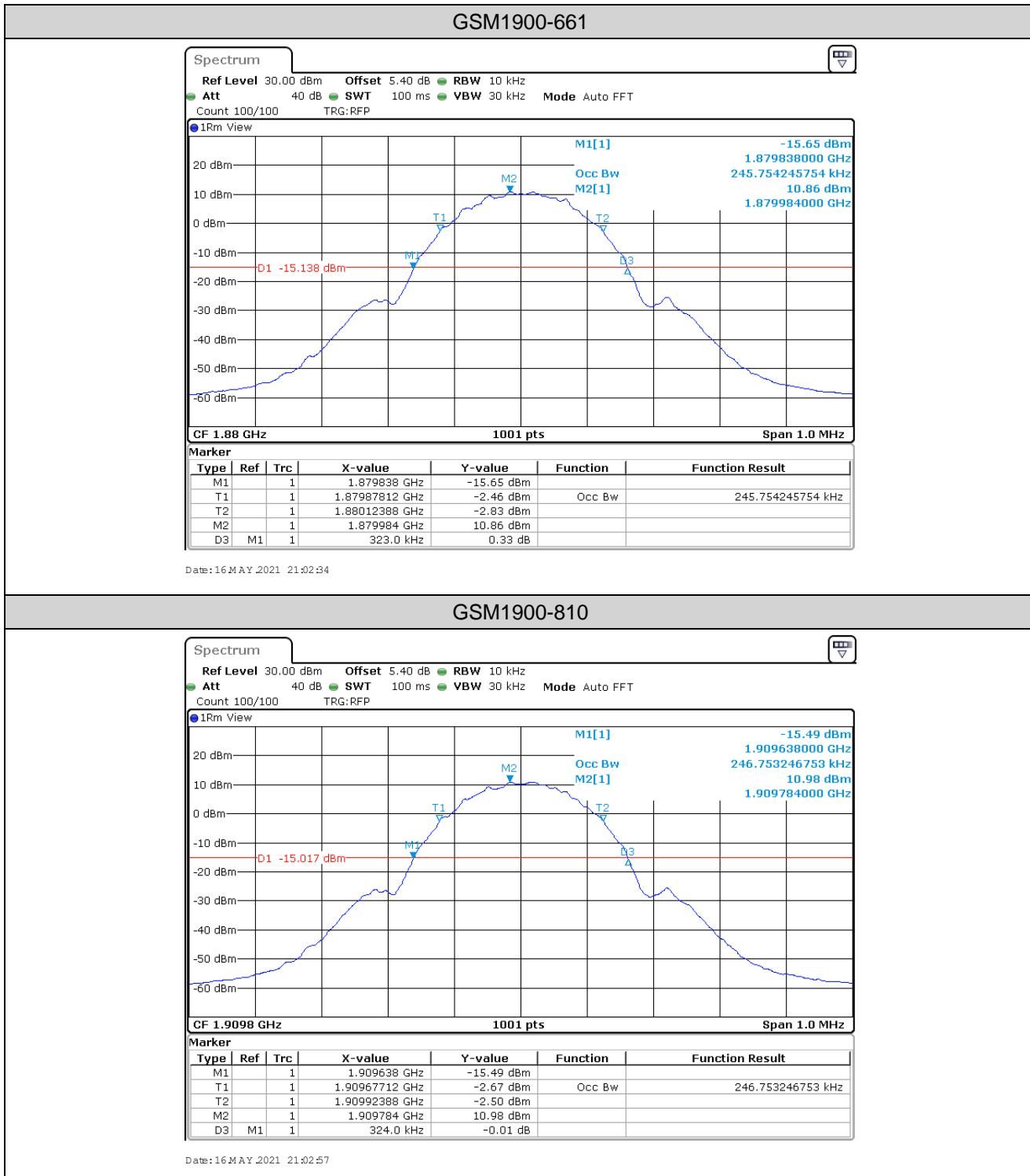
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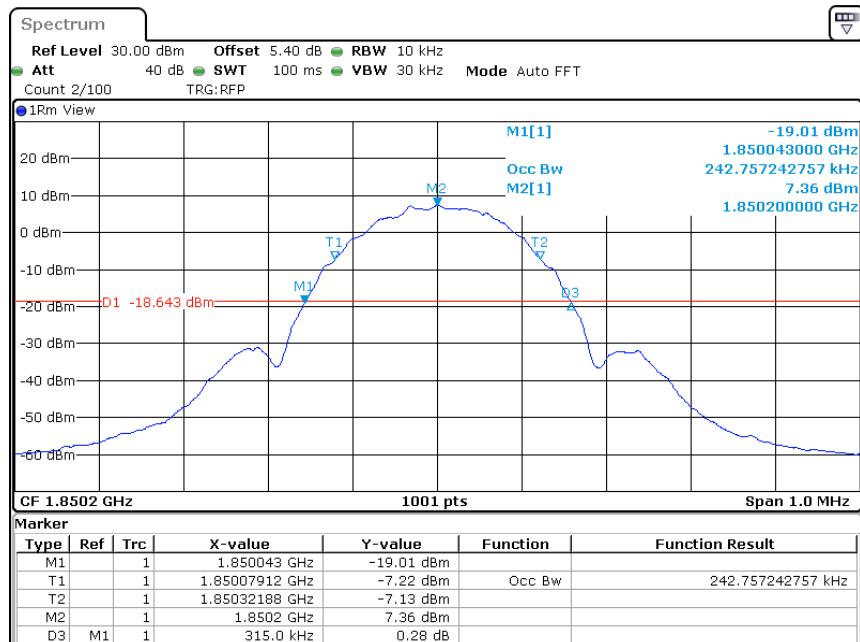


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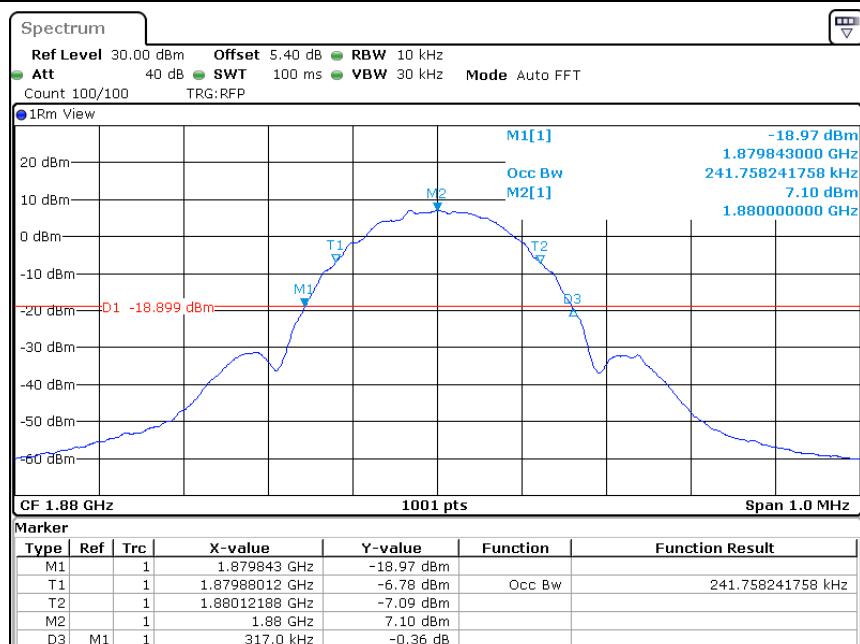


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## EGPRS1900-661



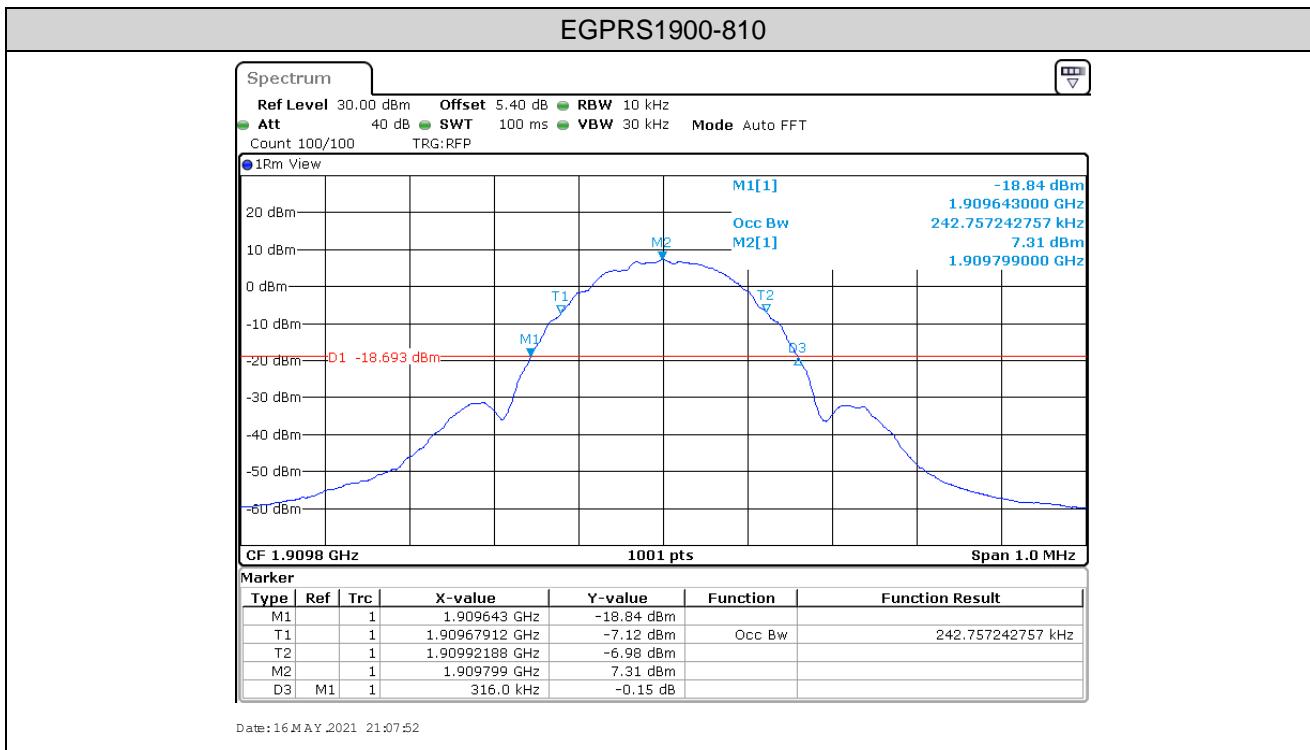
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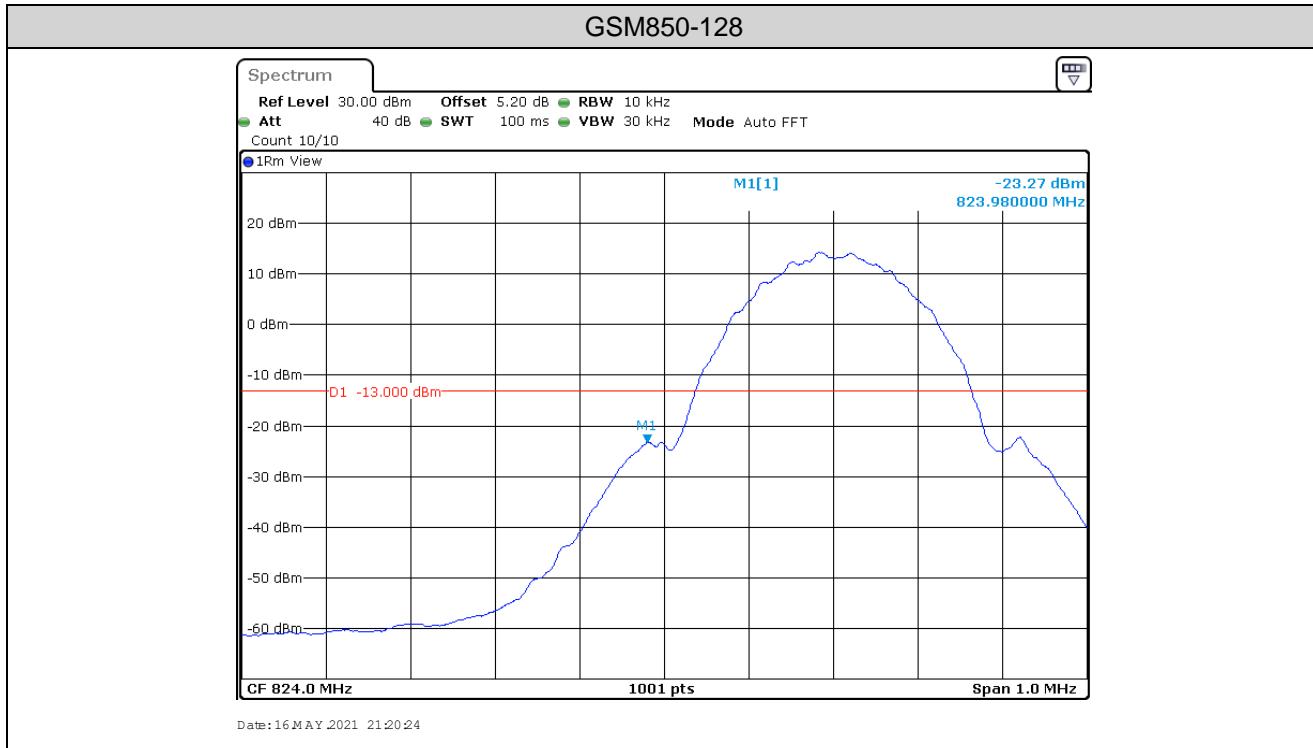
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## 5. Band Edge Compliance

### 5.1. Test Plots

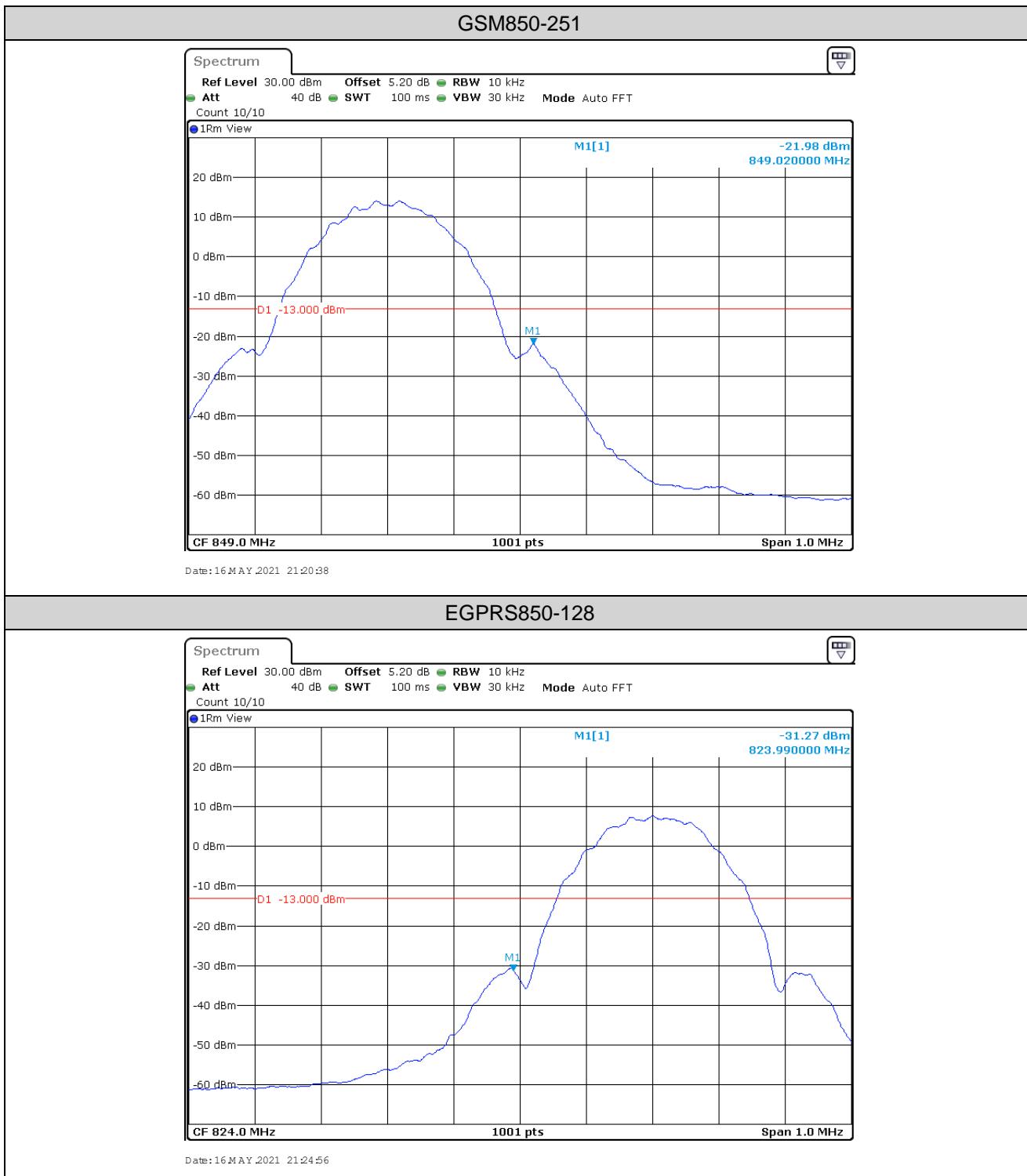


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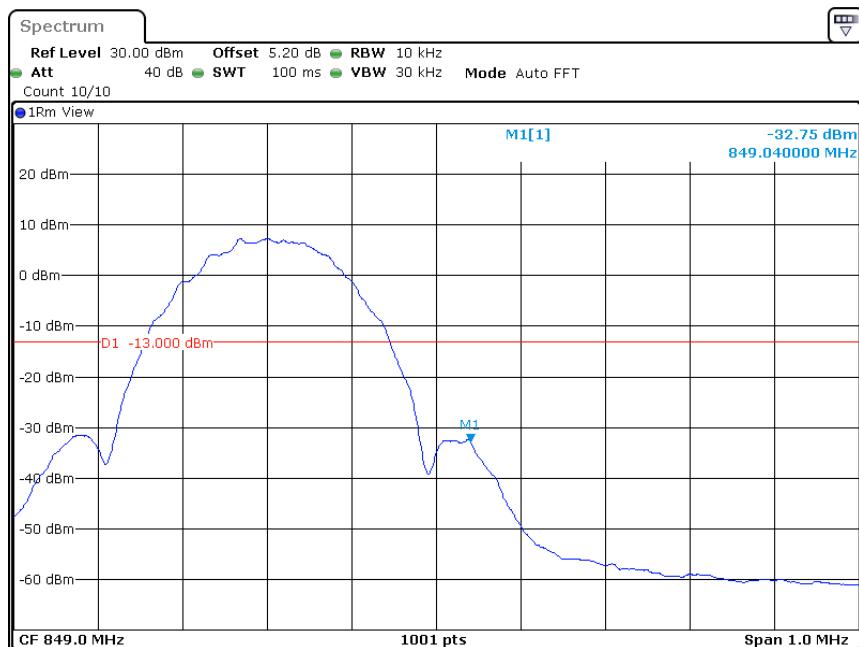
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## EGPRS850-251



Date: 16 MAY 2021 21:25:10

## GSM1900-512



Date: 16 MAY 2021 21:03:12

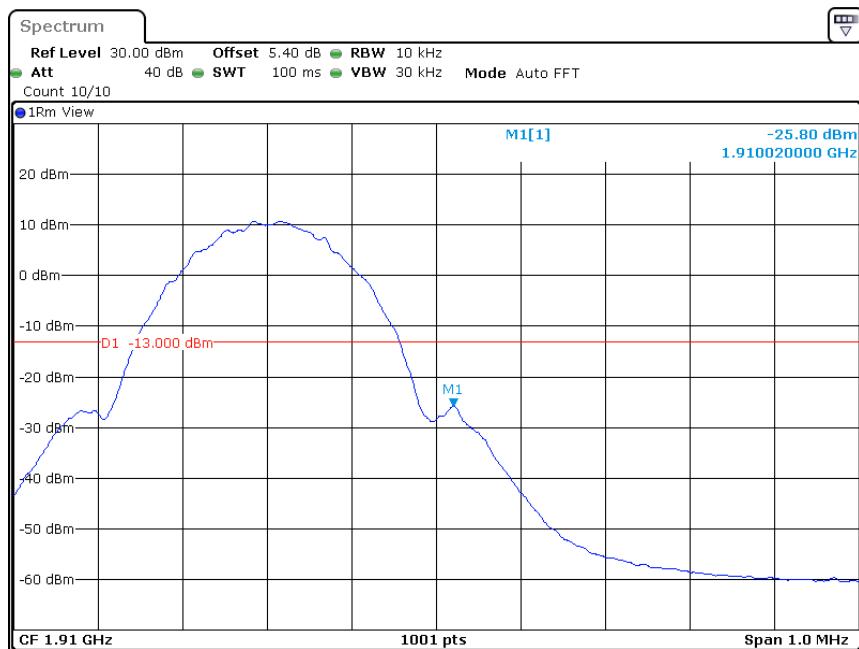
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## GSM1900-810



Date: 16 MAY 2021 21:03:26

## EGPRS1900-512



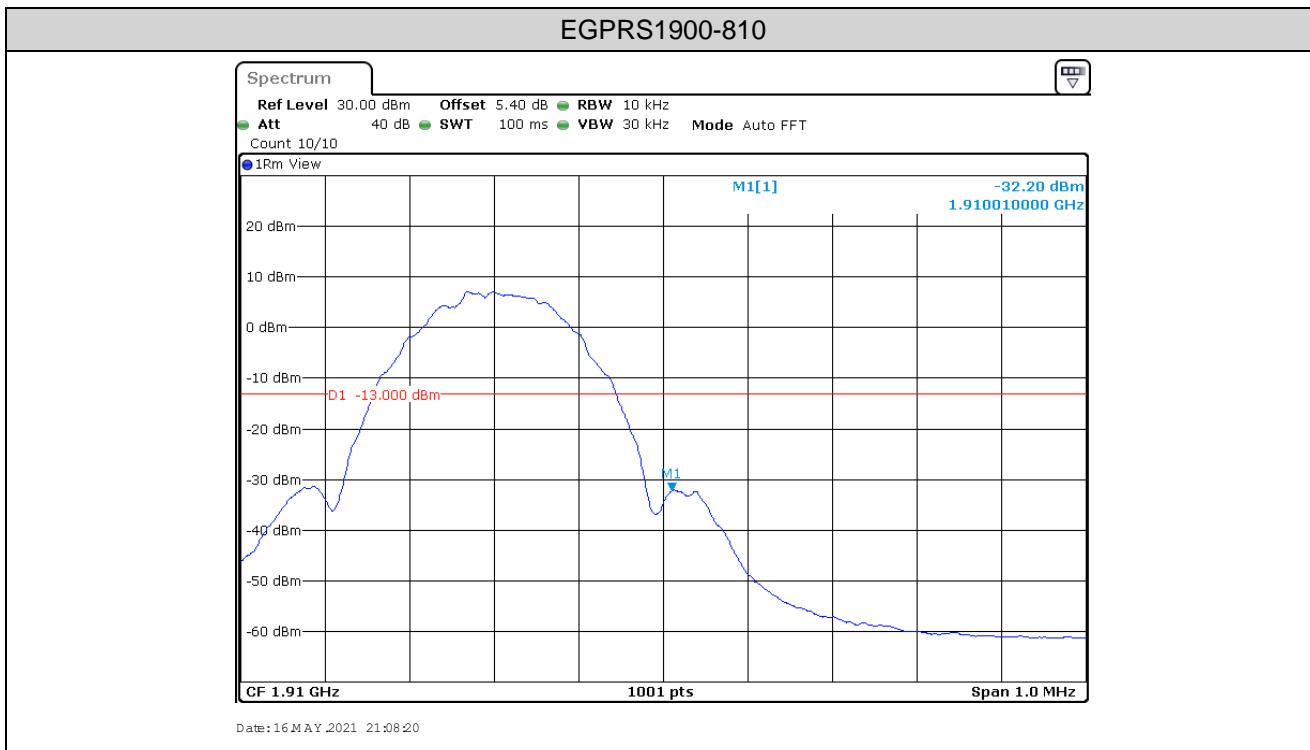
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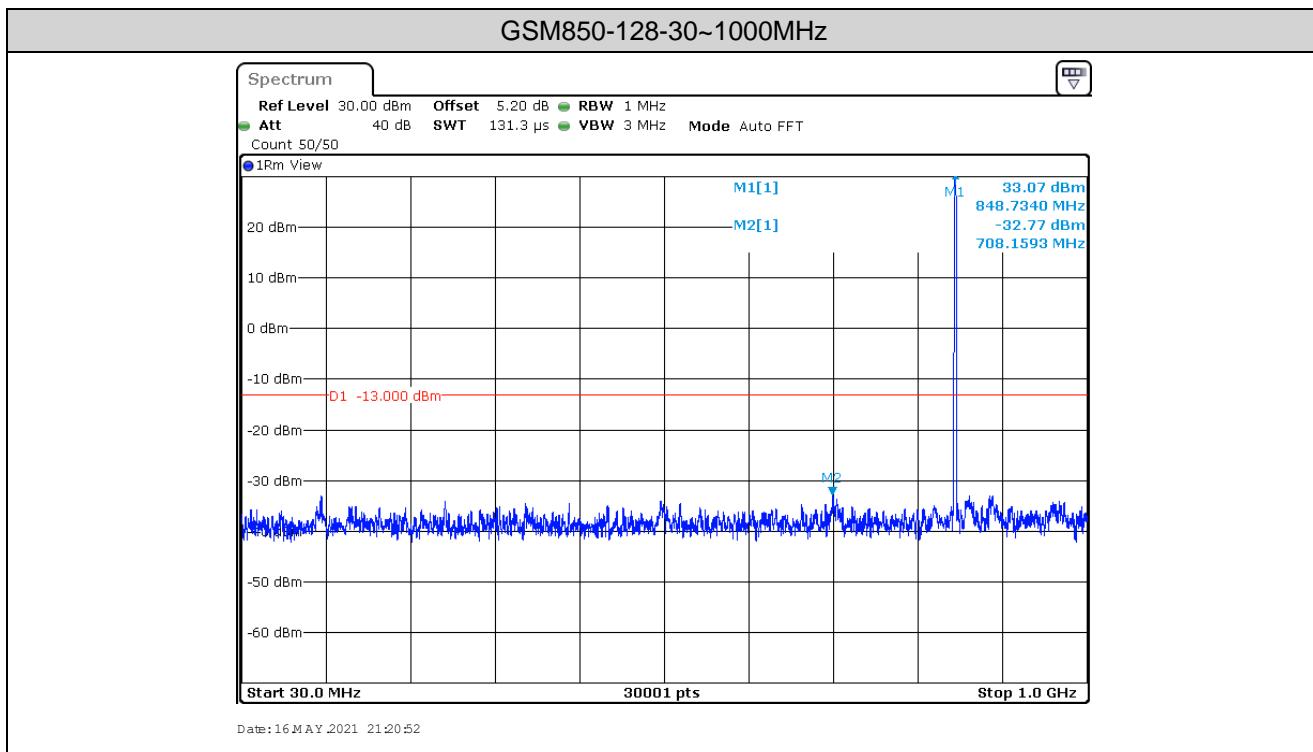
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## 6. Spurious Emission at Antenna Terminal

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  $< \text{RBW}/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (\text{Span} / \text{RBW})$ " 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



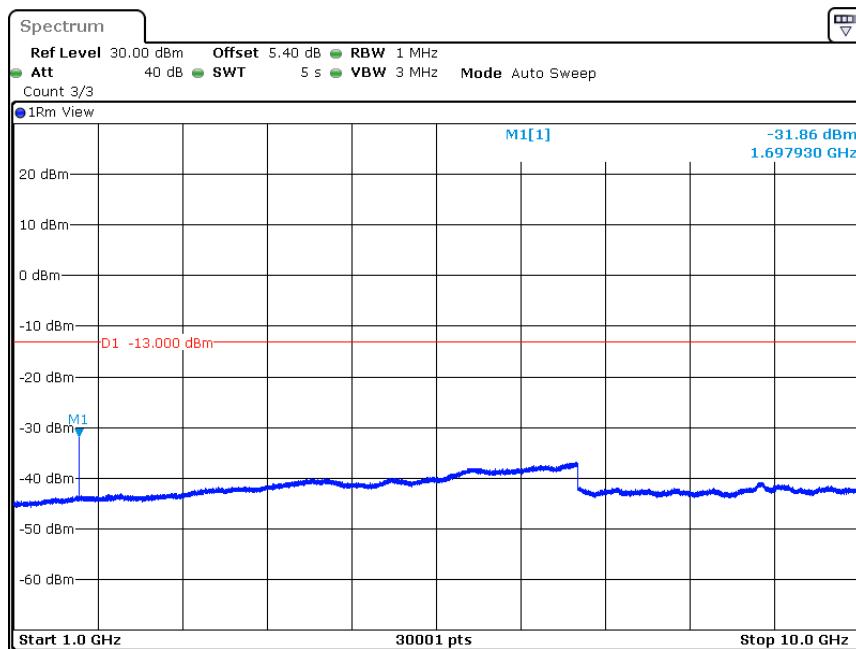
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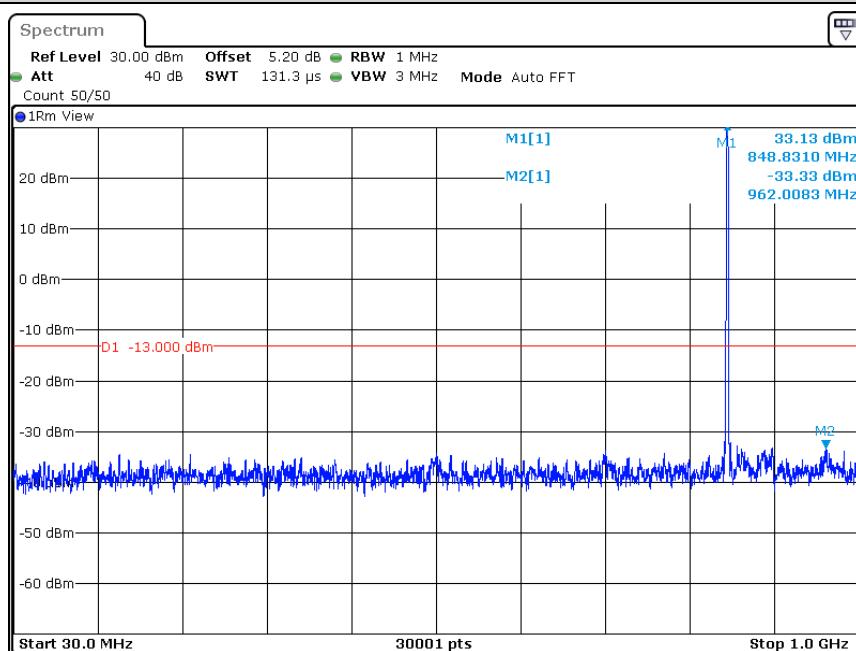
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## GSM850-128-1000~10000MHz



Date: 16 MAY 2021 21:21:17

## GSM850-190-30~1000MHz



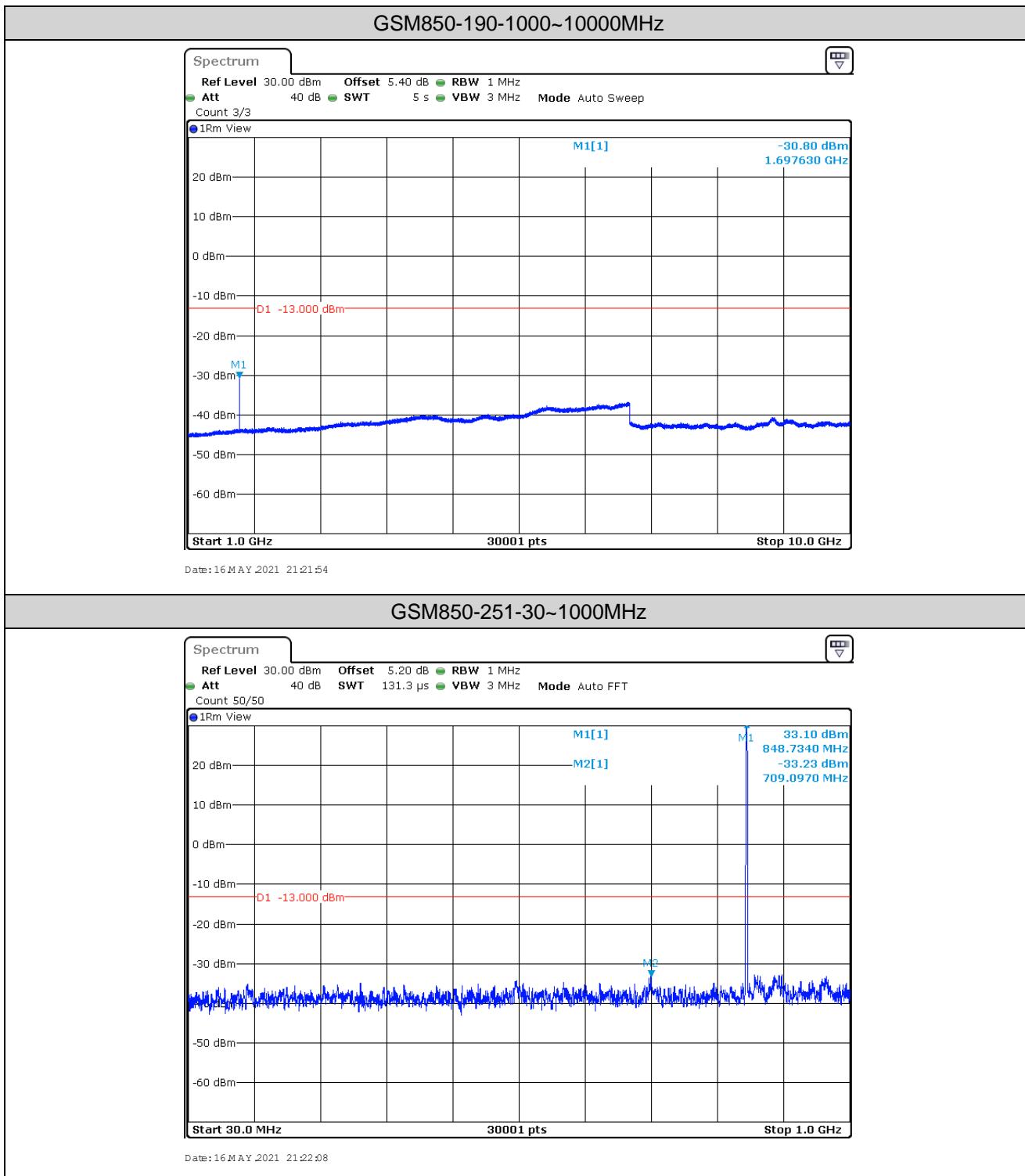
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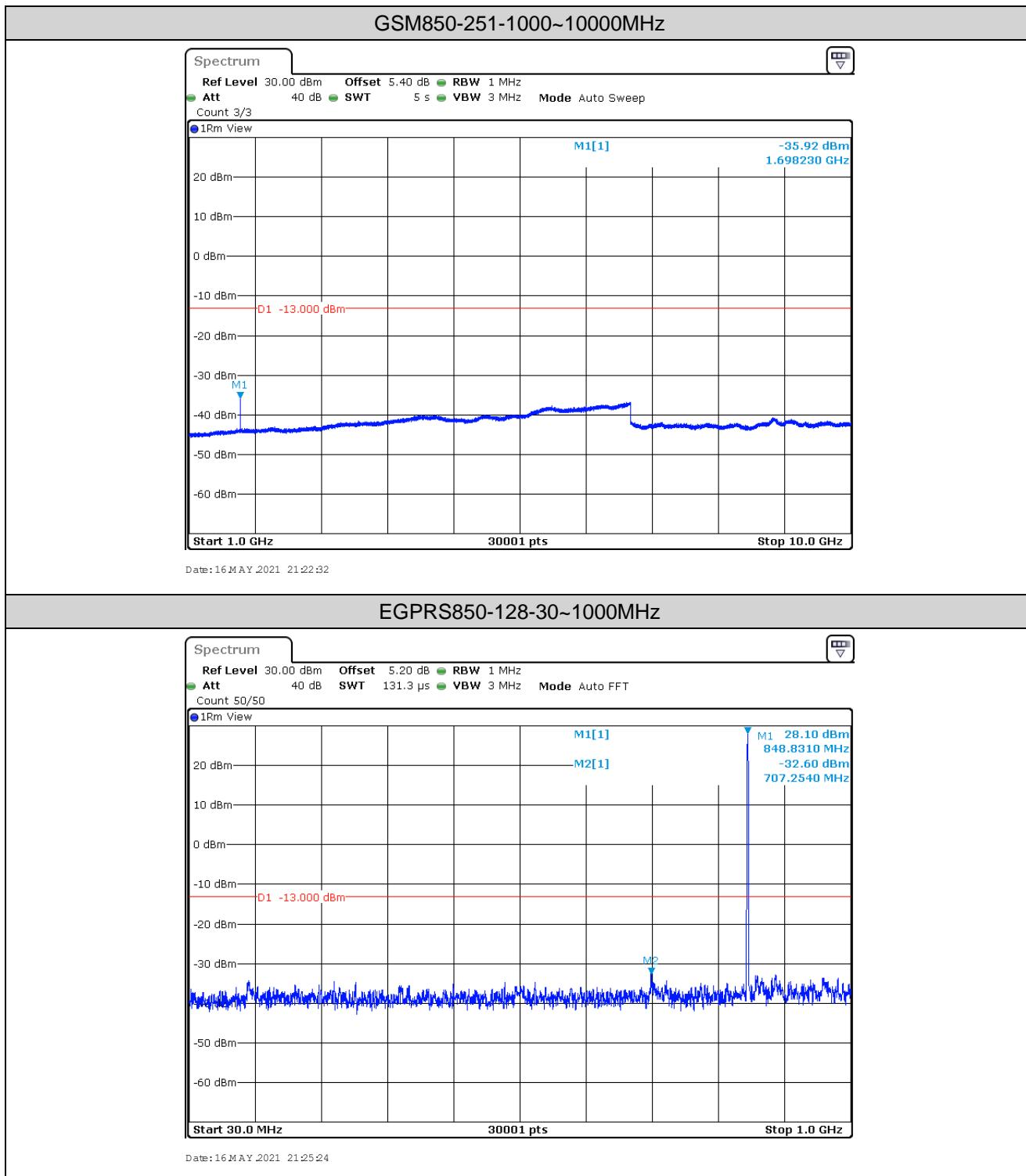


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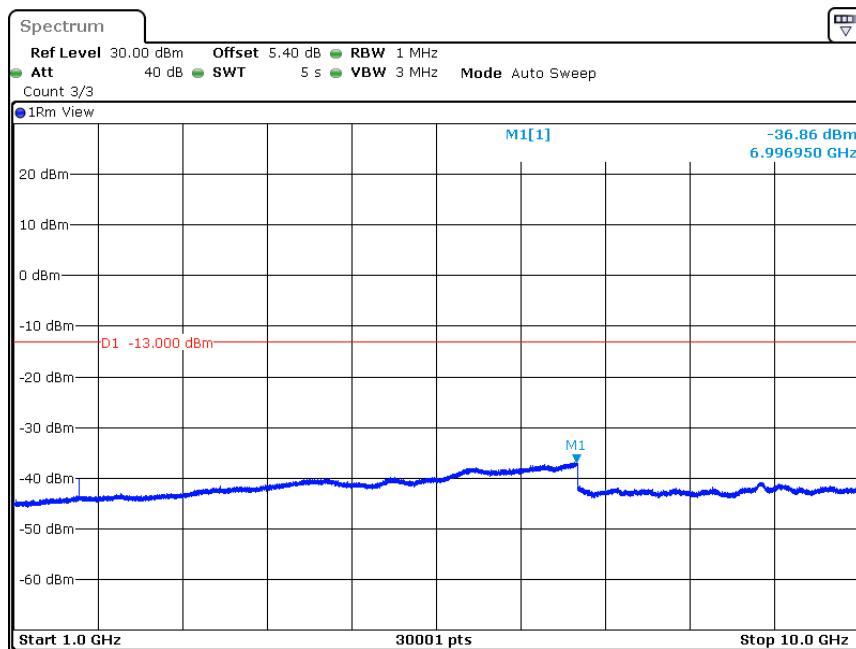
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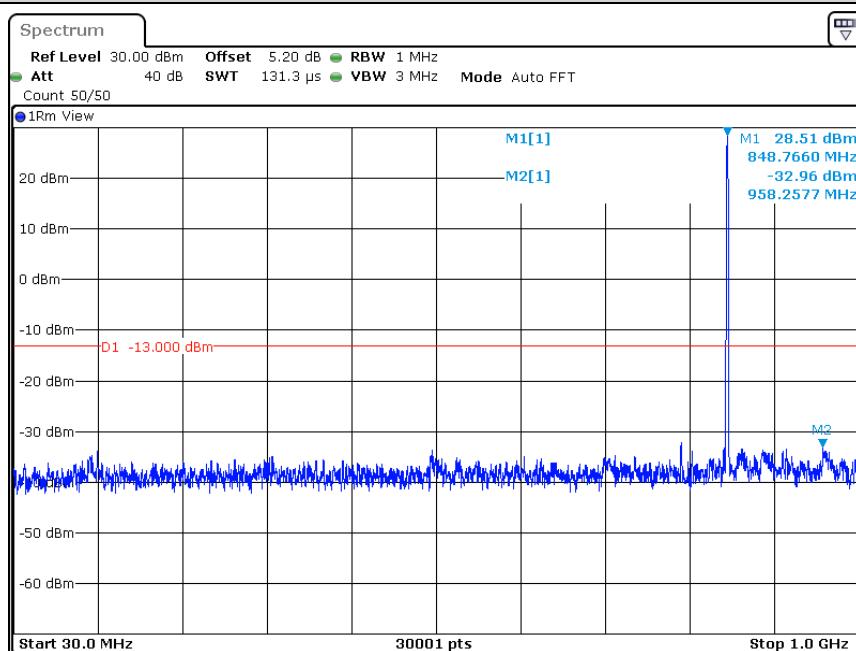
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## EGPRS850-128-1000~10000MHz



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## EGPRS850-190-30~1000MHz



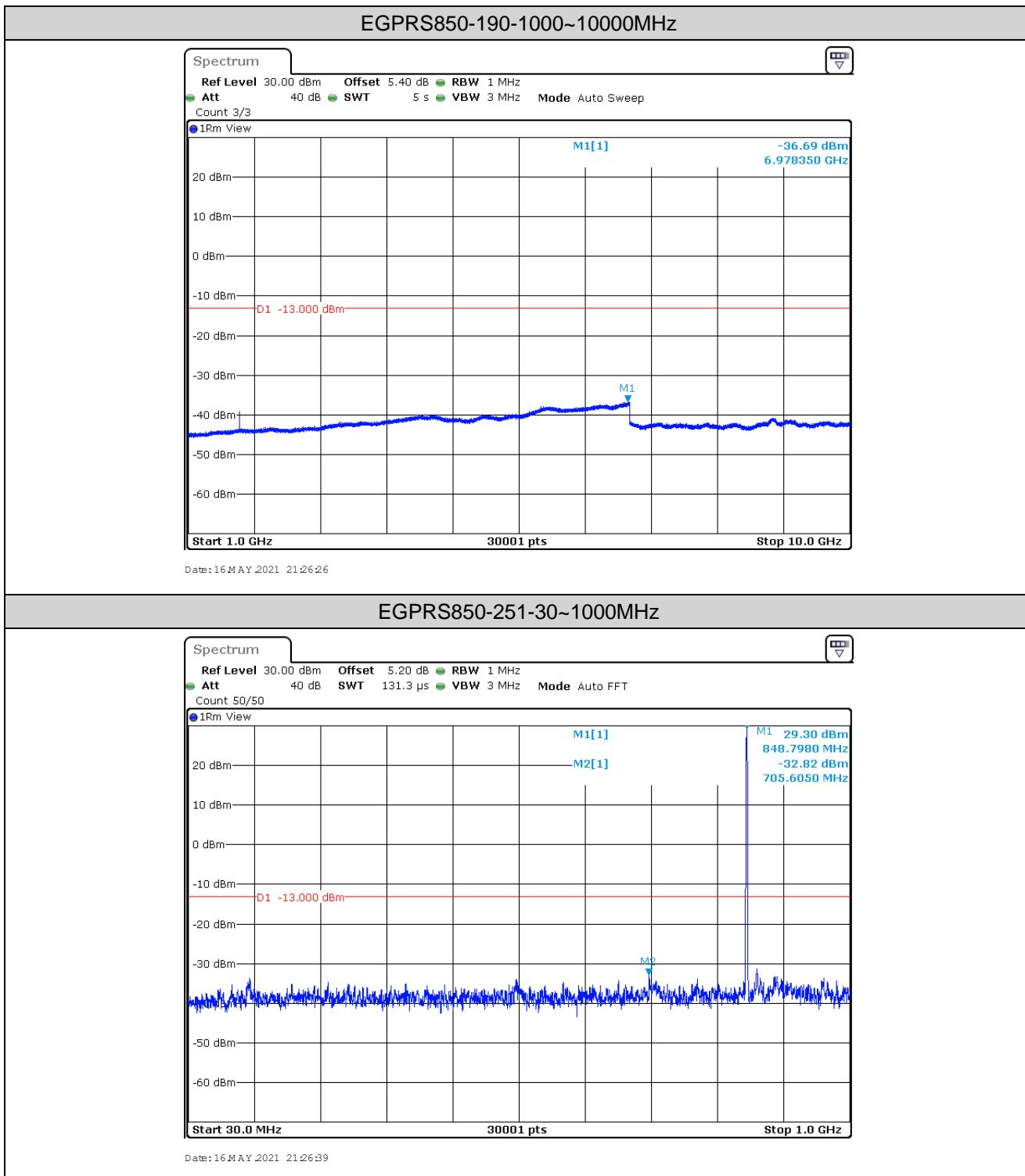
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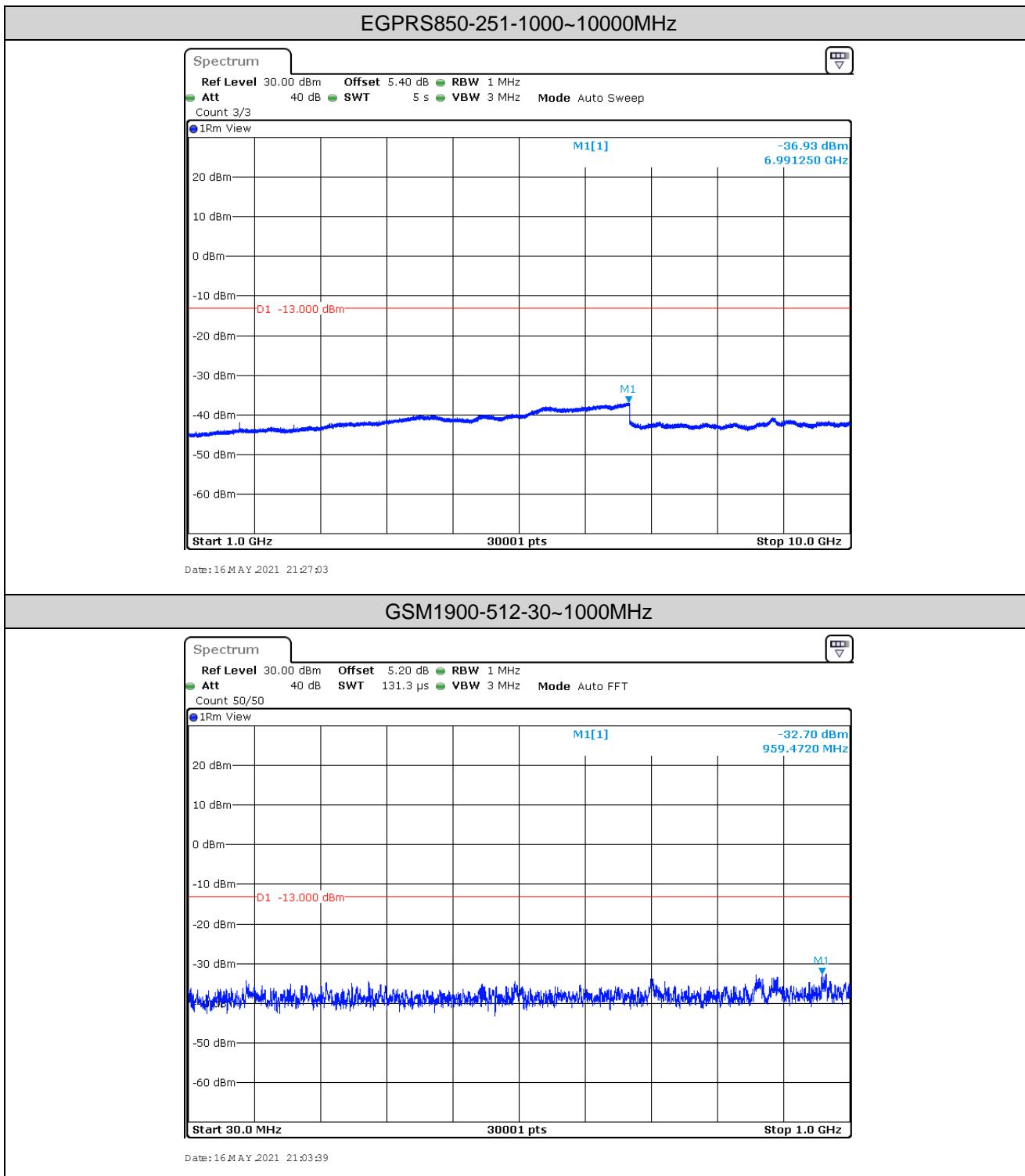


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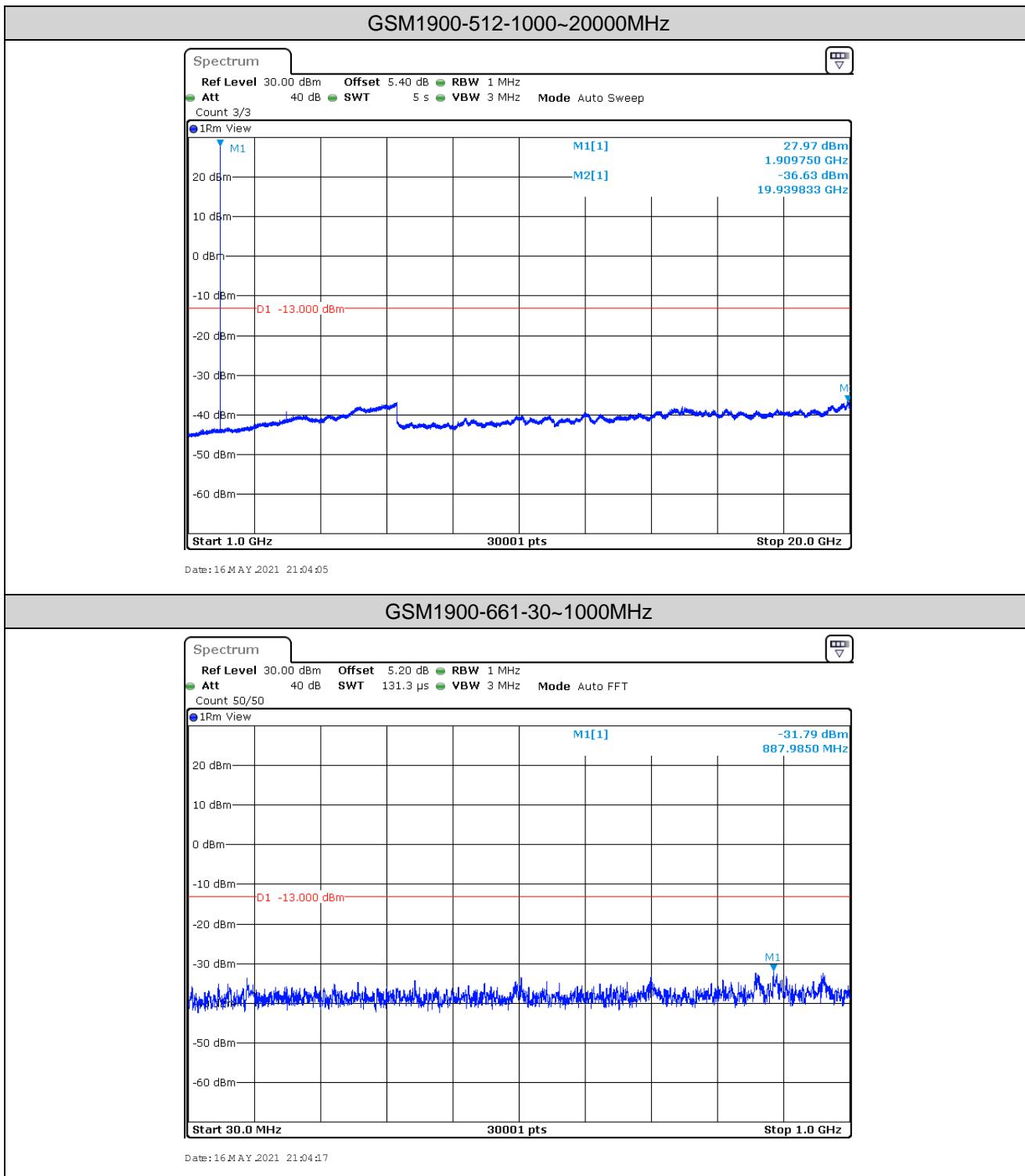


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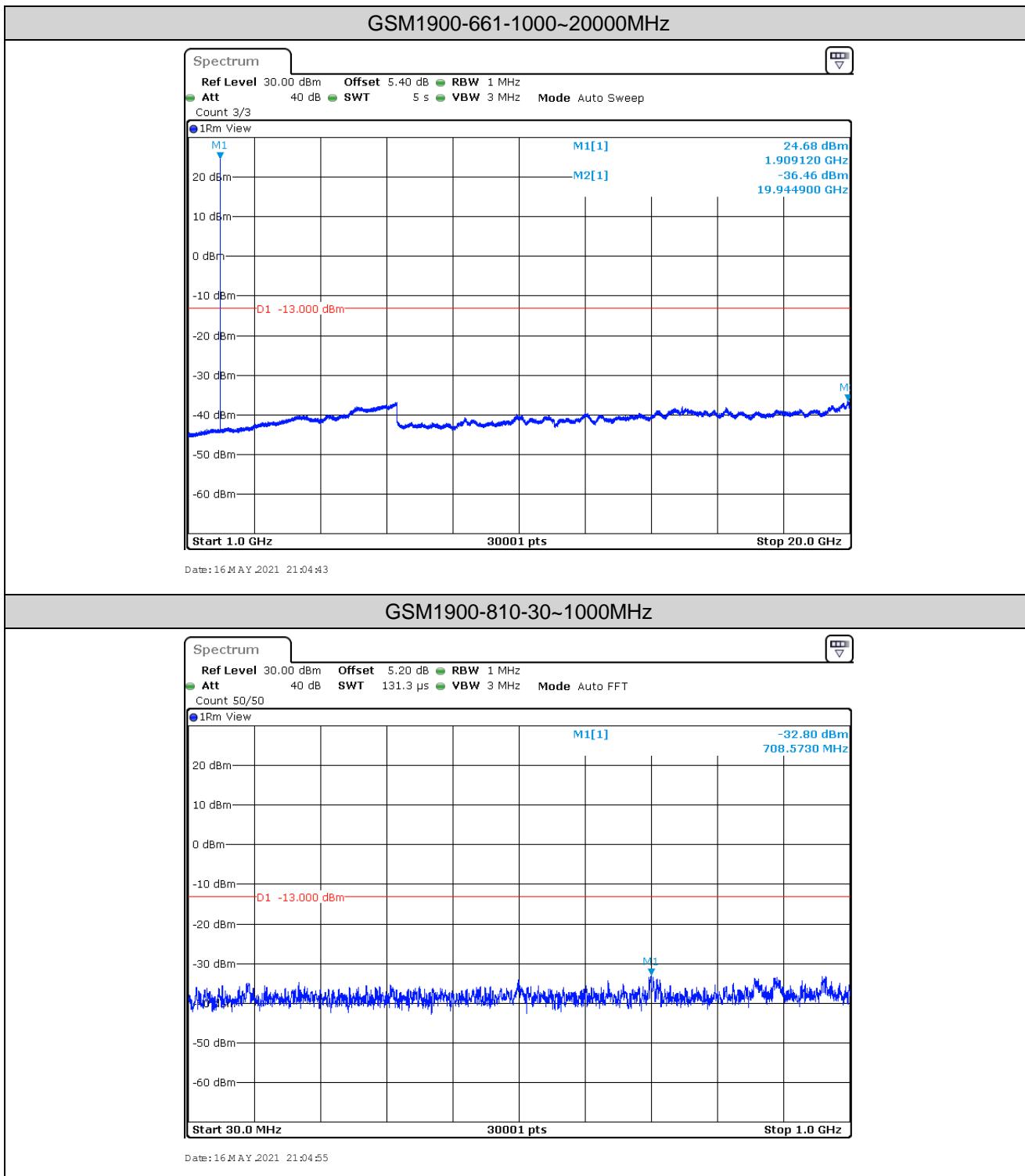


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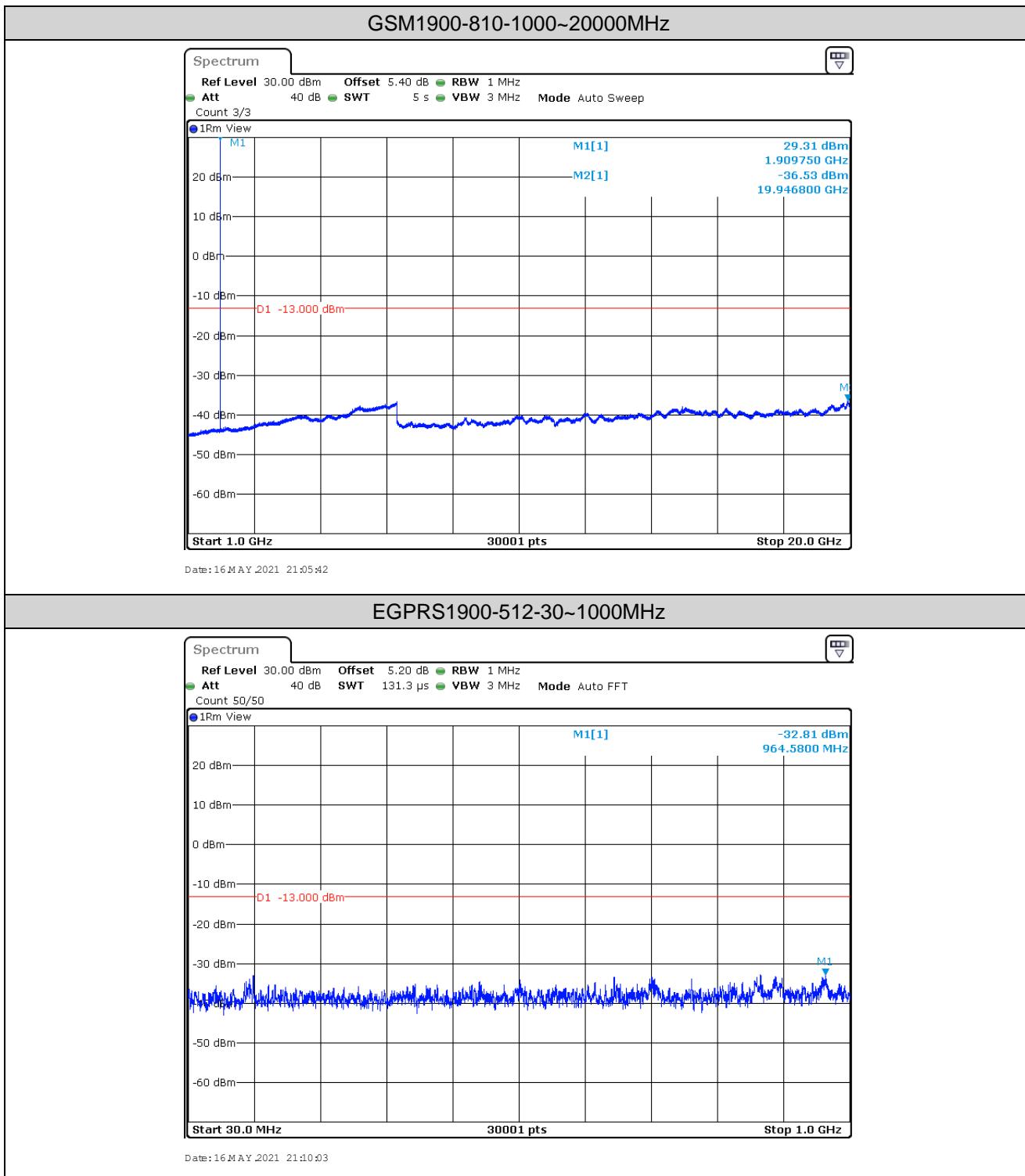


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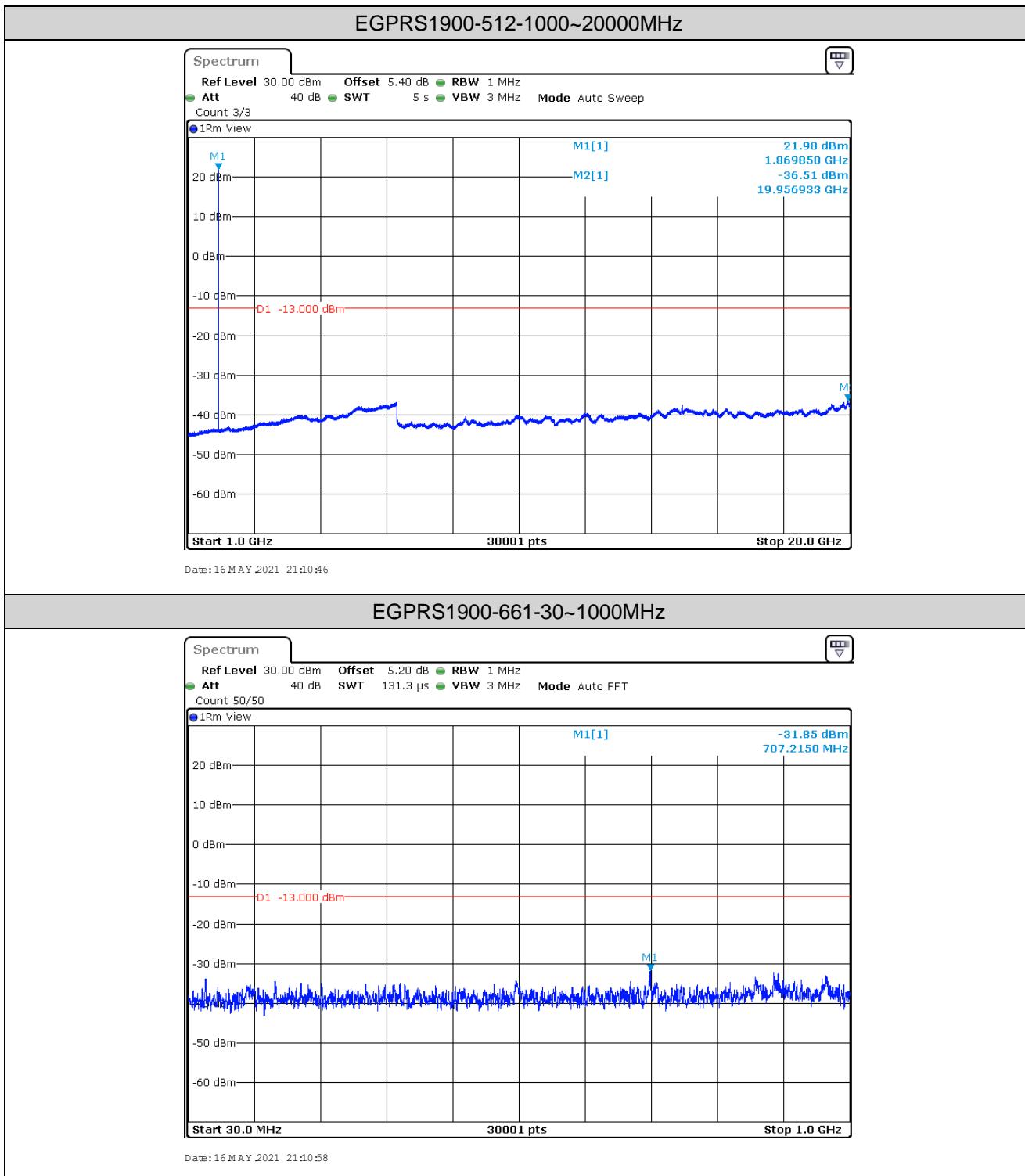


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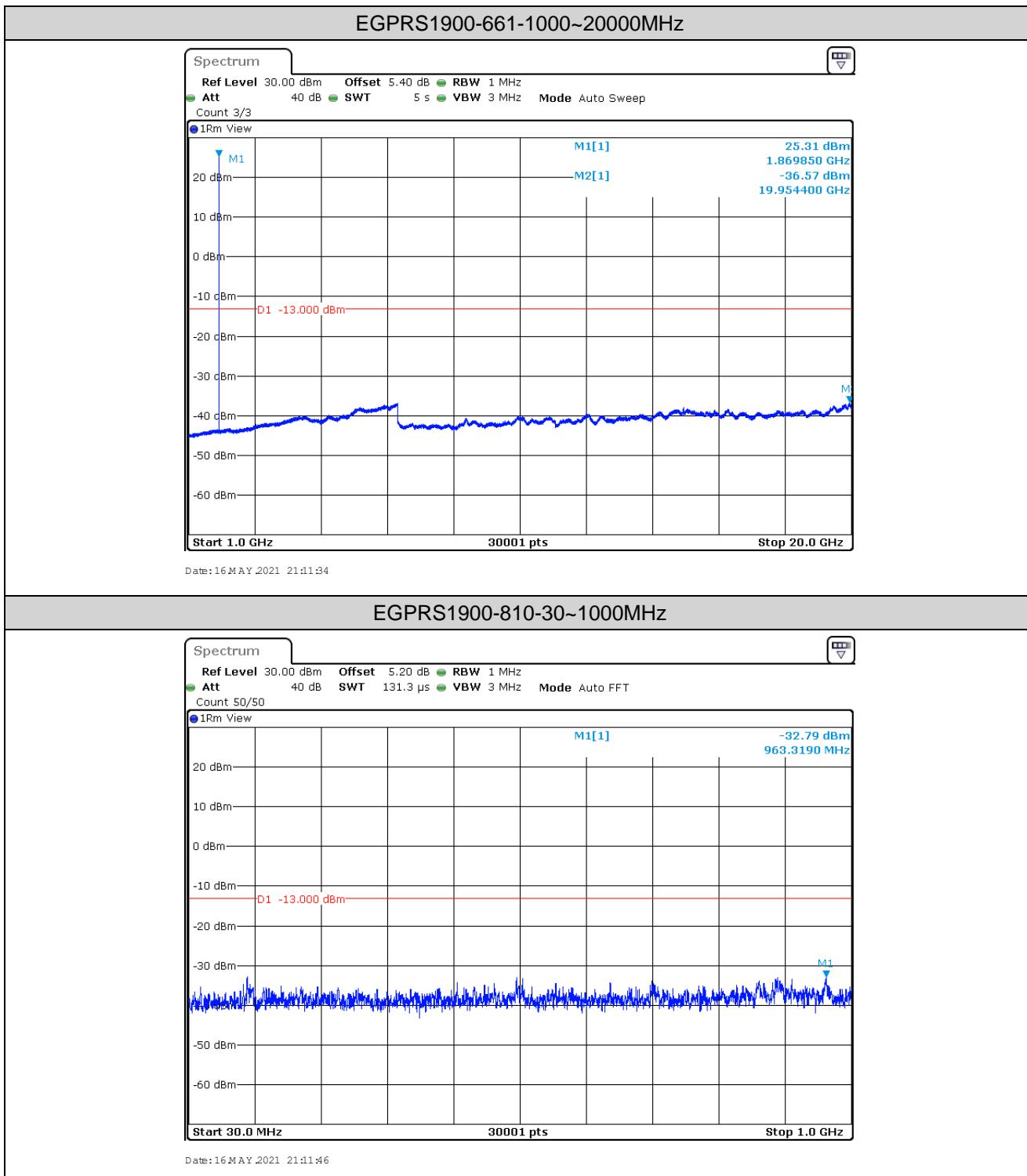


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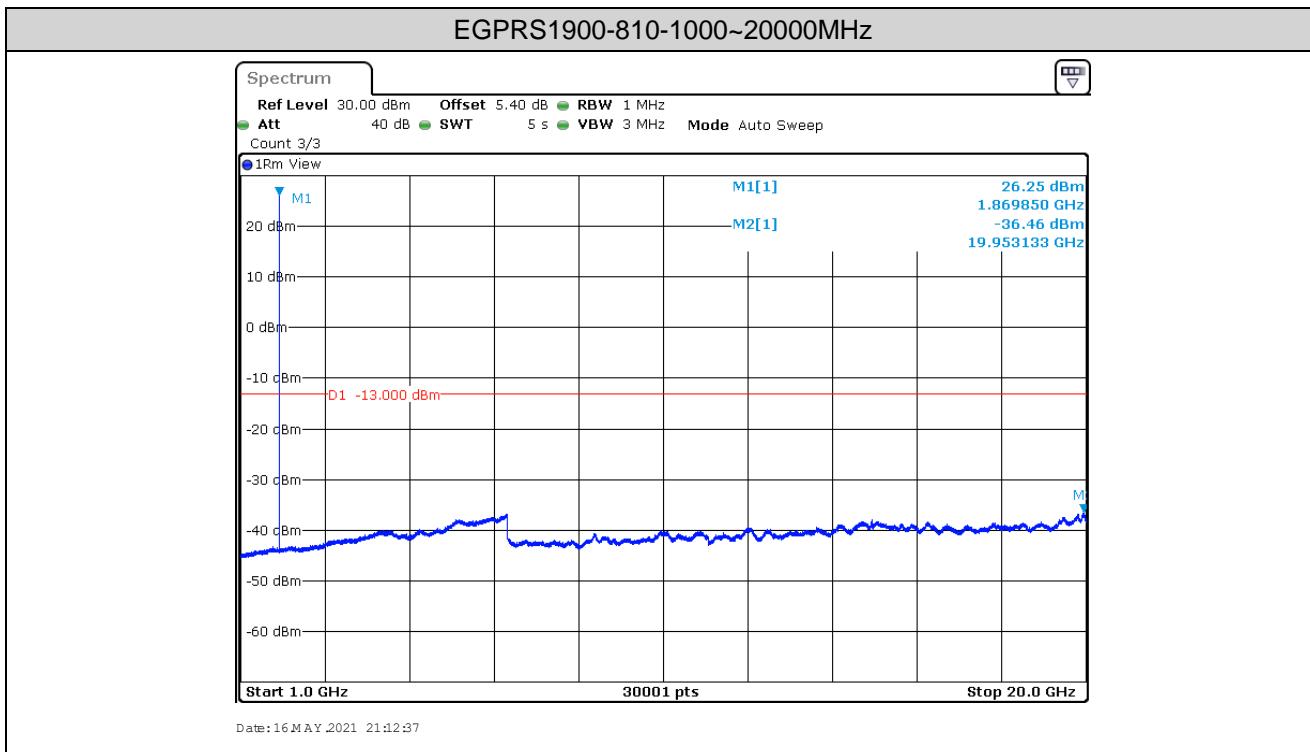


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## 7. Field Strength of Spurious Radiation

### 7.1. test Band = GSM\_850 ANTO

#### 7.1.1. Test Channel = Low Channel

<b>Suspected Data List</b>						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.3496	-88.82	-56.47	-13.00	43.47	Horizontal
2	233.9042	-87.41	-58.97	-13.00	45.97	Horizontal
3	560.1800	-84.64	-53.86	-13.00	40.86	Horizontal
4	1937.9469	-75.72	-55.54	-13.00	42.54	Horizontal
5	2472.6736	-80.55	-57.23	-13.00	44.23	Horizontal
6	5302.7651	-55.41	-53.84	-13.00	40.84	Horizontal



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**7.2. Test Band = GSM\_850 ANTO****7.2.1. Test Channel = Low Channel**

<b>Suspected Data List</b>						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	111.6296	-88.04	-56.25	-13.00	43.25	Vertical
2	252.2381	-87.17	-61.99	-13.00	48.99	Vertical
3	456.3848	-85.56	-57.04	-13.00	44.04	Vertical
4	1768.4384	-68.77	-49.62	-13.00	36.62	Vertical
5	5316.4158	-55.04	-54.18	-13.00	41.18	Vertical
6	9719.9860	-58.85	-50.98	-13.00	37.98	Vertical

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**7.3. Test Band = GSM\_850 ANTO****7.3.1. Test Channel = Mid Channel**

<b>Suspected Data List</b>						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.2412	-88.14	-55.74	-13.00	42.74	Horizontal
2	248.9884	-88.12	-60.12	-13.00	47.12	Horizontal
3	1673.1337	-77.73	-58.76	-13.00	45.76	Horizontal
4	2509.9755	-78.56	-55.42	-13.00	42.42	Horizontal
5	5308.0154	-55.35	-53.86	-13.00	40.86	Horizontal
6	9330.0665	-57.75	-51.06	-13.00	38.06	Horizontal

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**7.4. Test Band = GSM\_850 ANTO****7.4.1. Test Channel = Mid Channel**

<b>Suspected Data List</b>						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	112.6966	-87.95	-56.25	-13.00	43.25	Vertical
2	382.2246	-86.44	-58.47	-13.00	45.47	Vertical
3	1783.7392	-81.66	-62.32	-13.00	49.32	Vertical
4	2461.0731	-79.40	-56.38	-13.00	43.38	Vertical
5	5296.1148	-55.35	-54.35	-13.00	41.35	Vertical
6	9876.7938	-58.62	-50.87	-13.00	37.87	Vertical

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**7.5. Test Band = GSM\_850 ANTO****7.5.1. Test Channel = High Channel**

<b>Suspected Data List</b>						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.4352	-87.68	-55.27	-13.00	42.27	Horizontal
2	246.2238	-87.42	-59.31	-13.00	46.31	Horizontal
3	553.5837	-84.64	-53.90	-13.00	40.90	Horizontal
4	1779.7390	-72.03	-52.52	-13.00	39.52	Horizontal
5	2546.4773	-78.33	-55.12	-13.00	42.12	Horizontal
6	5365.4183	-55.70	-55.18	-13.00	42.18	Horizontal

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**7.6. Test Band = GSM\_850 ANTO****7.6.1. Test Channel = High Channel**

<b>Suspected Data List</b>						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	66.7648	-87.92	-60.96	-13.00	47.96	Vertical
2	110.8535	-88.82	-56.96	-13.00	43.96	Vertical
3	549.9460	-84.77	-55.27	-13.00	42.27	Vertical
4	2201.3601	-84.18	-59.37	-13.00	46.37	Vertical
5	5318.5159	-55.19	-54.36	-13.00	41.36	Vertical
6	9652.7826	-58.37	-50.89	-13.00	37.89	Vertical



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**7.7. Test Band = GSM\_1900 ANTO****7.7.1. Test Channel = Low Channel**

<b>Suspected Data List</b>						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	40.4120	-69.98	-54.24	-13.00	41.24	Horizontal
2	156.0437	-70.81	-67.64	-13.00	54.64	Horizontal
3	999.2886	-79.83	-55.14	-13.00	42.14	Horizontal
4	2985.6993	-76.59	-52.17	-13.00	39.17	Horizontal
5	5335.0778	-54.61	-53.53	-13.00	40.53	Horizontal
6	16394.446	-58.90	-43.23	-13.00	30.23	Horizontal



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**7.8. Test Band = GSM\_1900 ANTO****7.8.1. Test Channel = Low Channel**

<b>Suspected Data List</b>						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	40.5414	-70.41	-67.59	-13.00	54.59	Vertical
2	112.5202	-79.78	-64.67	-13.00	51.67	Vertical
3	998.6419	-79.88	-55.45	-13.00	42.45	Vertical
4	2947.5974	-76.38	-53.14	-13.00	40.14	Vertical
5	8638.1879	-56.97	-52.44	-13.00	39.44	Vertical
6	17992.499	-59.10	-39.64	-13.00	26.64	Vertical

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**7.9. Test Band = GSM\_1900 ANT0****7.9.1. Test Channel = Mid Channel**

<b>Suspected Data List</b>						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	40.8001	-70.30	-67.25	-13.00	54.25	Vertical
2	72.2948	-73.94	-63.48	-13.00	50.48	Vertical
3	998.6419	-80.27	-55.84	-13.00	42.84	Vertical
4	2985.6993	-76.72	-53.19	-13.00	40.19	Vertical
5	11012.2671	-58.58	-48.88	-13.00	35.88	Vertical
6	17989.499	-58.65	-39.18	-13.00	26.18	Vertical

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## 7.10. Test Band = GSM\_1900 ANTO

### 7.10.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	40.7354	-71.11	-55.35	-13.00	42.35	Horizontal
2	158.6306	-71.71	-68.12	-13.00	55.12	Horizontal
3	997.8659	-79.60	-55.05	-13.00	42.05	Horizontal
4	2989.5995	-76.82	-52.38	-13.00	39.38	Horizontal
5	5294.0765	-54.38	-52.90	-13.00	39.90	Horizontal
6	16395.446	-58.62	-42.91	-13.00	29.91	Horizontal



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**7.11. Test Band = GSM\_1900 ANT0****7.11.1. Test Channel = High Channel**

<b>Suspected Data List</b>						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	40.6707	-70.05	-54.30	-13.00	41.30	Horizontal
2	240.8921	-79.78	-68.09	-13.00	55.09	Horizontal
3	995.5377	-79.82	-55.49	-13.00	42.49	Horizontal
4	2988.6994	-76.69	-52.26	-13.00	39.26	Horizontal
5	5298.0766	-55.26	-53.69	-13.00	40.69	Horizontal
6	16398.446	-59.40	-43.56	-13.00	30.56	Horizontal



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**7.12. Test Band = GSM\_1900 ANT0****7.12.1. Test Channel = High Channel**

<b>Suspected Data List</b>						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	40.6707	-69.51	-66.57	-13.00	53.57	Vertical
2	118.1465	-79.08	-64.42	-13.00	51.42	Vertical
3	902.0235	-57.27	-37.70	-13.00	24.70	Vertical
4	2194.2597	-77.40	-52.81	-13.00	39.81	Vertical
5	5292.0764	-54.84	-53.92	-13.00	40.92	Vertical
6	17989.999	-58.56	-39.09	-13.00	26.09	Vertical



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**7.13. Test Band = GSM\_850 ANT1****7.13.1. Test Channel = Low Channel**

<b>Suspected Data List</b>						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.0586	-69.99	-54.21	-13.00	41.21	Horizontal
2	91.0161	-74.01	-70.20	-13.00	57.20	Horizontal
3	550.4795	-78.31	-63.18	-13.00	50.18	Horizontal
4	2210.8605	-85.23	-60.75	-13.00	47.75	Horizontal
5	5292.6146	-57.16	-55.71	-13.00	42.71	Horizontal
6	9590.8295	-59.39	-52.96	-13.00	39.96	Horizontal

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**7.14. Test Band = GSM\_850 ANT1****7.14.1. Test Channel = Low Channel**

<b>Suspected Data List</b>						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.7447	-72.92	-66.41	-13.00	53.41	Vertical
2	109.7865	-78.30	-63.03	-13.00	50.03	Vertical
3	457.8399	-78.88	-65.74	-13.00	52.74	Vertical
4	2208.2604	-85.06	-60.39	-13.00	47.39	Vertical
5	5296.1148	-57.30	-56.30	-13.00	43.30	Vertical
6	9599.2300	-59.81	-52.84	-13.00	39.84	Vertical

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**7.15. Test Band = GSM\_850 ANT1****7.15.1. Test Channel = Mid Channel**

<b>Suspected Data List</b>						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.0101	-70.35	-54.58	-13.00	41.58	Horizontal
2	89.9490	-73.92	-70.08	-13.00	57.08	Horizontal
3	454.9297	-77.93	-65.54	-13.00	52.54	Horizontal
4	2205.3603	-84.96	-60.42	-13.00	47.42	Horizontal
5	5326.2163	-57.41	-56.19	-13.00	43.19	Horizontal
6	9355.2678	-59.54	-52.89	-13.00	39.89	Horizontal



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**7.16. Test Band = GSM\_850 ANT1****7.16.1. Test Channel = Mid Channel**

<b>Suspected Data List</b>						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	45.0843	-73.62	-66.87	-13.00	53.87	Vertical
2	106.9248	-78.52	-63.84	-13.00	50.84	Vertical
3	528.2169	-78.26	-64.16	-13.00	51.16	Vertical
4	2209.0605	-85.13	-60.48	-13.00	47.48	Vertical
5	5294.7147	-57.39	-56.41	-13.00	43.41	Vertical
6	9628.9814	-60.13	-52.87	-13.00	39.87	Vertical



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**7.17. Test Band = GSM\_850 ANT1****7.17.1. Test Channel = High Channel**

<b>Suspected Data List</b>						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.1071	-69.22	-53.44	-13.00	40.44	Horizontal
2	164.2547	-73.58	-69.72	-13.00	56.72	Horizontal
3	560.9075	-79.00	-63.15	-13.00	50.15	Horizontal
4	2269.3635	-84.75	-60.68	-13.00	47.68	Horizontal
5	5292.6146	-56.97	-55.52	-13.00	42.52	Horizontal
6	9353.5177	-59.77	-53.12	-13.00	40.12	Horizontal

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**7.18. Test Band = GSM\_850 ANT1****7.18.1. Test Channel = High Channel**

<b>Suspected Data List</b>						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.2597	-72.42	-66.34	-13.00	53.34	Vertical
2	110.2230	-78.96	-63.67	-13.00	50.67	Vertical
3	475.7373	-77.96	-64.85	-13.00	51.85	Vertical
4	2218.9609	-85.11	-60.66	-13.00	47.66	Vertical
5	5290.8645	-57.46	-56.56	-13.00	43.56	Vertical
6	9835.8418	-60.49	-52.84	-13.00	39.84	Vertical



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**7.19. Test Band = GSM\_1900 ANT1****7.19.1. Test Channel = Low Channel**

<b>Suspected Data List</b>						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.3821	-71.33	-55.53	-13.00	42.53	Horizontal
2	242.8322	-79.46	-67.80	-13.00	54.80	Horizontal
3	997.6718	-79.69	-55.16	-13.00	42.16	Horizontal
4	2986.8993	-77.53	-53.10	-13.00	40.10	Horizontal
5	5285.0762	-57.20	-55.91	-13.00	42.91	Horizontal
6	17988.499	-58.22	-43.49	-13.00	30.49	Horizontal



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**7.20. Test Band = GSM\_1900 ANT1****7.20.1. Test Channel = low Channel**

<b>Suspected Data List</b>						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.1629	-72.84	-66.84	-13.00	53.84	Vertical
2	115.1717	-79.35	-64.45	-13.00	51.45	Vertical
3	999.9353	-79.75	-55.20	-13.00	42.20	Vertical
4	2979.9990	-77.74	-54.25	-13.00	41.25	Vertical
5	7393.1464	-57.04	-55.34	-13.00	42.34	Vertical
6	17999.000	-58.23	-38.79	-13.00	25.79	Vertical

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**7.21. Test Band = GSM\_1900 ANT1****7.21.1. Test Channel = Mid Channel**

<b>Suspected Data List</b>						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.0587	-71.95	-56.17	-13.00	43.17	Horizontal
2	241.4741	-79.65	-67.97	-13.00	54.97	Horizontal
3	998.3186	-79.73	-55.13	-13.00	42.13	Horizontal
4	2966.3983	-77.49	-53.16	-13.00	40.16	Horizontal
5	5301.0767	-56.91	-55.32	-13.00	42.32	Horizontal
6	16402.946	-59.13	-43.35	-13.00	30.35	Horizontal



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**7.22. Test Band = GSM\_1900 ANT1****7.22.1. Test Channel = Mid Channel**

<b>Suspected Data List</b>						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.0336	-71.95	-66.07	-13.00	53.07	Vertical
2	112.0028	-79.53	-64.38	-13.00	51.38	Vertical
3	995.4730	-79.48	-55.36	-13.00	42.36	Vertical
4	2993.2997	-77.68	-54.10	-13.00	41.10	Vertical
5	5293.0764	-57.19	-56.25	-13.00	43.25	Vertical
6	17995.499	-57.62	-38.17	-13.00	25.17	Vertical

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**7.23. Test Band = GSM\_1900 ANT1****7.23.1. Test Channel = High Channel**

<b>Suspected Data List</b>						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.3821	-72.23	-56.43	-13.00	43.43	Horizontal
2	157.2078	-73.75	-70.39	-13.00	57.39	Horizontal
3	997.9952	-79.59	-55.02	-13.00	42.02	Horizontal
4	2988.1994	-77.23	-52.80	-13.00	39.80	Horizontal
5	5304.5768	-56.79	-55.25	-13.00	42.25	Horizontal
6	17987.999	-58.10	-43.37	-13.00	30.37	Horizontal



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**7.24. Test Band = GSM\_1900 ANT1****7.24.1. Test Channel = High Channel**

<b>Suspected Data List</b>						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	44.4216	-72.79	-66.57	-13.00	53.57	Vertical
2	115.3657	-79.83	-64.95	-13.00	51.95	Vertical
3	997.9952	-80.04	-55.67	-13.00	42.67	Vertical
4	2976.2988	-77.63	-54.17	-13.00	41.17	Vertical
5	5308.5770	-56.79	-55.83	-13.00	42.83	Vertical
6	17991.499	-58.01	-38.55	-13.00	25.55	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

Band	Channel	Voltage [Vdc]	Temperature (°C)	Voltage			
				Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VL	NT	-11.69	-0.014183	±2.5	PASS
GSM850	128	VN	NT	-15.40	-0.018685	±2.5	PASS
GSM850	128	VH	NT	-13.75	-0.016683	±2.5	PASS
GSM850	190	VL	NT	-13.08	-0.015635	±2.5	PASS
GSM850	190	VN	NT	-7.68	-0.009180	±2.5	PASS
GSM850	190	VH	NT	-12.37	-0.014786	±2.5	PASS
GSM850	251	VL	NT	-10.30	-0.012135	±2.5	PASS
GSM850	251	VN	NT	-13.50	-0.015905	±2.5	PASS
GSM850	251	VH	NT	-11.14	-0.013124	±2.5	PASS
EGPRS850	128	VL	NT	-2.78	-0.003373	±2.5	PASS
EGPRS850	128	VN	NT	-4.91	-0.005957	±2.5	PASS
EGPRS850	128	VH	NT	-5.10	-0.006188	±2.5	PASS
EGPRS850	190	VL	NT	0.48	0.000574	±2.5	PASS
EGPRS850	190	VN	NT	-0.87	-0.001040	±2.5	PASS
EGPRS850	190	VH	NT	3.94	0.004710	±2.5	PASS
EGPRS850	251	VL	NT	1.68	0.001979	±2.5	PASS
EGPRS850	251	VN	NT	6.04	0.007116	±2.5	PASS
EGPRS850	251	VH	NT	-3.29	-0.003876	±2.5	PASS
GSM1900	512	VL	NT	-22.86	-0.012355	±2.5	PASS
GSM1900	512	VN	NT	-24.47	-0.013226	±2.5	PASS
GSM1900	512	VH	NT	-23.18	-0.012528	±2.5	PASS
GSM1900	661	VL	NT	-28.96	-0.015404	±2.5	PASS
GSM1900	661	VN	NT	-24.89	-0.013239	±2.5	PASS
GSM1900	661	VH	NT	-27.86	-0.014819	±2.5	PASS
GSM1900	810	VL	NT	-15.24	-0.007980	±2.5	PASS
GSM1900	810	VN	NT	-22.15	-0.011598	±2.5	PASS
GSM1900	810	VH	NT	-20.40	-0.010682	±2.5	PASS
EGPRS1900	512	VL	NT	-10.78	-0.005826	±2.5	PASS
EGPRS1900	512	VN	NT	-13.20	-0.007134	±2.5	PASS
EGPRS1900	512	VH	NT	4.00	0.002162	±2.5	PASS

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EGPRS1900	661	VL	NT	-7.88	-0.004191	±2.5	PASS
EGPRS1900	661	VN	NT	-10.36	-0.005511	±2.5	PASS
EGPRS1900	661	VH	NT	13.04	0.006936	±2.5	PASS
EGPRS1900	810	VL	NT	11.98	0.006273	±2.5	PASS
EGPRS1900	810	VN	NT	-8.04	-0.004210	±2.5	PASS
EGPRS1900	810	VH	NT	16.08	0.008420	±2.5	PASS

## 8.2. Frequency Error Vs Temperature

Band	Channel	Voltage [Vdc]	Temperature				
			Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	-11.20	-0.013589	±2.5	PASS
GSM850	128	NV	-20	-15.79	-0.019158	±2.5	PASS
GSM850	128	NV	-10	-12.91	-0.015664	±2.5	PASS
GSM850	128	NV	0	-9.01	-0.010932	±2.5	PASS
GSM850	128	NV	10	-10.69	-0.012970	±2.5	PASS
GSM850	128	NV	20	-12.79	-0.015518	±2.5	PASS
GSM850	128	NV	30	-11.62	-0.014099	±2.5	PASS
GSM850	128	NV	40	-6.97	-0.008457	±2.5	PASS
GSM850	128	NV	50	-14.04	-0.017035	±2.5	PASS
GSM850	190	NV	-30	-10.23	-0.012228	±2.5	PASS
GSM850	190	NV	-20	-13.04	-0.015587	±2.5	PASS
GSM850	190	NV	-10	-8.88	-0.010614	±2.5	PASS
GSM850	190	NV	0	-13.66	-0.016328	±2.5	PASS
GSM850	190	NV	10	-12.49	-0.014929	±2.5	PASS
GSM850	190	NV	20	-8.65	-0.010339	±2.5	PASS
GSM850	190	NV	30	-7.91	-0.009455	±2.5	PASS
GSM850	190	NV	40	-13.37	-0.015981	±2.5	PASS
GSM850	190	NV	50	-10.75	-0.012850	±2.5	PASS
GSM850	251	NV	-30	-8.27	-0.009743	±2.5	PASS
GSM850	251	NV	-20	-8.98	-0.010580	±2.5	PASS
GSM850	251	NV	-10	-15.30	-0.018025	±2.5	PASS
GSM850	251	NV	0	-14.79	-0.017425	±2.5	PASS
GSM850	251	NV	10	-12.14	-0.014303	±2.5	PASS
GSM850	251	NV	20	-13.01	-0.015328	±2.5	PASS
GSM850	251	NV	30	-13.92	-0.016400	±2.5	PASS
GSM850	251	NV	40	-13.53	-0.015940	±2.5	PASS

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GSM850	251	NV	50	-8.88	-0.010462	±2.5	PASS
EGPRS850	128	NV	-30	-4.04	-0.004902	±2.5	PASS
EGPRS850	128	NV	-20	-1.10	-0.001335	±2.5	PASS
EGPRS850	128	NV	-10	-3.33	-0.004040	±2.5	PASS
EGPRS850	128	NV	0	-5.91	-0.007171	±2.5	PASS
EGPRS850	128	NV	10	-4.16	-0.005047	±2.5	PASS
EGPRS850	128	NV	20	-5.71	-0.006928	±2.5	PASS
EGPRS850	128	NV	30	-6.17	-0.007486	±2.5	PASS
EGPRS850	128	NV	40	-2.78	-0.003373	±2.5	PASS
EGPRS850	128	NV	50	-3.23	-0.003919	±2.5	PASS
EGPRS850	190	NV	-30	3.07	0.003670	±2.5	PASS
EGPRS850	190	NV	-20	-0.03	-0.000036	±2.5	PASS
EGPRS850	190	NV	-10	-1.58	-0.001889	±2.5	PASS
EGPRS850	190	NV	0	2.07	0.002474	±2.5	PASS
EGPRS850	190	NV	10	0.13	0.000155	±2.5	PASS
EGPRS850	190	NV	20	1.03	0.001231	±2.5	PASS
EGPRS850	190	NV	30	0.58	0.000693	±2.5	PASS
EGPRS850	190	NV	40	1.68	0.002008	±2.5	PASS
EGPRS850	190	NV	50	1.55	0.001853	±2.5	PASS
EGPRS850	251	NV	-30	-3.13	-0.003688	±2.5	PASS
EGPRS850	251	NV	-20	-1.29	-0.001520	±2.5	PASS
EGPRS850	251	NV	-10	0.00	0.000000	±2.5	PASS
EGPRS850	251	NV	0	-2.26	-0.002663	±2.5	PASS
EGPRS850	251	NV	10	-0.74	-0.000872	±2.5	PASS
EGPRS850	251	NV	20	-0.32	-0.000377	±2.5	PASS
EGPRS850	251	NV	30	0.36	0.000424	±2.5	PASS
EGPRS850	251	NV	40	1.49	0.001755	±2.5	PASS
EGPRS850	251	NV	50	3.07	0.003617	±2.5	PASS
GSM1900	512	NV	-30	-24.50	-0.013242	±2.5	PASS
GSM1900	512	NV	-20	-23.02	-0.012442	±2.5	PASS
GSM1900	512	NV	-10	-25.09	-0.013561	±2.5	PASS
GSM1900	512	NV	0	-22.31	-0.012058	±2.5	PASS
GSM1900	512	NV	10	-3.33	-0.001800	±2.5	PASS
GSM1900	512	NV	20	6.13	0.003313	±2.5	PASS
GSM1900	512	NV	30	-14.53	-0.007853	±2.5	PASS
GSM1900	512	NV	40	-36.39	-0.019668	±2.5	PASS
GSM1900	512	NV	50	-28.51	-0.015409	±2.5	PASS

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GSM1900	661	NV	-30	-29.15	-0.015505	±2.5	PASS
GSM1900	661	NV	-20	-27.18	-0.014457	±2.5	PASS
GSM1900	661	NV	-10	-26.47	-0.014080	±2.5	PASS
GSM1900	661	NV	0	-25.76	-0.013702	±2.5	PASS
GSM1900	661	NV	10	-7.39	-0.003931	±2.5	PASS
GSM1900	661	NV	20	-7.23	-0.003846	±2.5	PASS
GSM1900	661	NV	30	-18.18	-0.009670	±2.5	PASS
GSM1900	661	NV	40	-33.09	-0.017601	±2.5	PASS
GSM1900	661	NV	50	-33.13	-0.017622	±2.5	PASS
GSM1900	810	NV	-30	-9.94	-0.005205	±2.5	PASS
GSM1900	810	NV	-20	-17.50	-0.009163	±2.5	PASS
GSM1900	810	NV	-10	-10.69	-0.005597	±2.5	PASS
GSM1900	810	NV	0	-15.27	-0.007996	±2.5	PASS
GSM1900	810	NV	10	-1.81	-0.000948	±2.5	PASS
GSM1900	810	NV	20	10.72	0.005613	±2.5	PASS
GSM1900	810	NV	30	-12.82	-0.006713	±2.5	PASS
GSM1900	810	NV	40	-22.47	-0.011766	±2.5	PASS
GSM1900	810	NV	50	-28.22	-0.014776	±2.5	PASS
EGPRS1900	512	NV	-30	13.59	0.007345	±2.5	PASS
EGPRS1900	512	NV	-20	-8.52	-0.004605	±2.5	PASS
EGPRS1900	512	NV	-10	-12.04	-0.006507	±2.5	PASS
EGPRS1900	512	NV	0	-15.14	-0.008183	±2.5	PASS
EGPRS1900	512	NV	10	-12.75	-0.006891	±2.5	PASS
EGPRS1900	512	NV	20	-5.23	-0.002827	±2.5	PASS
EGPRS1900	512	NV	30	-7.59	-0.004102	±2.5	PASS
EGPRS1900	512	NV	40	-6.72	-0.003632	±2.5	PASS
EGPRS1900	512	NV	50	-11.33	-0.006124	±2.5	PASS
EGPRS1900	661	NV	-30	0.65	0.000346	±2.5	PASS
EGPRS1900	661	NV	-20	-13.08	-0.006957	±2.5	PASS
EGPRS1900	661	NV	-10	-13.59	-0.007229	±2.5	PASS
EGPRS1900	661	NV	0	-11.69	-0.006218	±2.5	PASS
EGPRS1900	661	NV	10	-12.33	-0.006559	±2.5	PASS
EGPRS1900	661	NV	20	-9.01	-0.004793	±2.5	PASS
EGPRS1900	661	NV	30	-7.85	-0.004176	±2.5	PASS
EGPRS1900	661	NV	40	-7.20	-0.003830	±2.5	PASS
EGPRS1900	661	NV	50	-10.75	-0.005718	±2.5	PASS
EGPRS1900	810	NV	-30	-3.03	-0.001587	±2.5	PASS

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EGPRS1900	810	NV	-20	-9.04	-0.004733	±2.5	PASS
EGPRS1900	810	NV	-10	-8.39	-0.004393	±2.5	PASS
EGPRS1900	810	NV	0	-7.81	-0.004089	±2.5	PASS
EGPRS1900	810	NV	10	-8.23	-0.004309	±2.5	PASS
EGPRS1900	810	NV	20	-4.97	-0.002602	±2.5	PASS
EGPRS1900	810	NV	30	-2.97	-0.001555	±2.5	PASS
EGPRS1900	810	NV	40	-2.39	-0.001251	±2.5	PASS
EGPRS1900	810	NV	50	-4.20	-0.002199	±2.5	PASS

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The End

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