

# Appendix B

## GSM 850 & 1900

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

### 1.1. Test Result

Band	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	33.45	31.11	38.45	PASS
GSM850	190	---	33.50	31.16	38.45	PASS
GSM850	251	---	33.25	30.91	38.45	PASS
EGPRS850	128	1	27.21	24.87	38.45	PASS
EGPRS850	128	2	25.05	22.71	38.45	PASS
EGPRS850	128	3	22.95	20.61	38.45	PASS
EGPRS850	128	4	21.30	18.96	38.45	PASS
EGPRS850	190	1	27.18	24.84	38.45	PASS
EGPRS850	190	2	25.01	22.67	38.45	PASS
EGPRS850	190	3	22.90	20.56	38.45	PASS
EGPRS850	190	4	21.36	19.02	38.45	PASS
EGPRS850	251	1	27.15	24.81	38.45	PASS
EGPRS850	251	2	25.03	22.69	38.45	PASS
EGPRS850	251	3	22.89	20.55	38.45	PASS
EGPRS850	251	4	21.30	18.96	38.45	PASS

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Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	29.99	30.37	33.00	PASS
GSM1900	661	---	30.02	30.40	33.00	PASS
GSM1900	810	---	29.89	30.27	33.00	PASS
EGPRS1900	512	1	27.09	27.47	33.00	PASS
EGPRS1900	512	2	24.61	24.99	33.00	PASS
EGPRS1900	512	3	22.95	23.33	33.00	PASS
EGPRS1900	512	4	21.99	22.37	33.00	PASS
EGPRS1900	661	1	26.90	27.28	33.00	PASS
EGPRS1900	661	2	24.41	24.79	33.00	PASS
EGPRS1900	661	3	22.81	23.19	33.00	PASS
EGPRS1900	661	4	21.79	22.17	33.00	PASS
EGPRS1900	810	1	26.73	27.11	33.00	PASS
EGPRS1900	810	2	24.27	24.65	33.00	PASS
EGPRS1900	810	3	22.64	23.02	33.00	PASS
EGPRS1900	810	4	21.74	22.12	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	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
GSM850	128	7.71	13	PASS
GSM850	190	7.74	13	PASS
GSM850	251	7.71	13	PASS
EGPRS850	128	11.36	13	PASS
EGPRS850	190	10.81	13	PASS
EGPRS850	251	10.67	13	PASS
GSM1900	512	7.74	13	PASS
GSM1900	661	7.77	13	PASS
GSM1900	810	7.80	13	PASS
EGPRS1900	512	10.35	13	PASS
EGPRS1900	661	10.81	13	PASS
EGPRS1900	810	11.04	13	PASS

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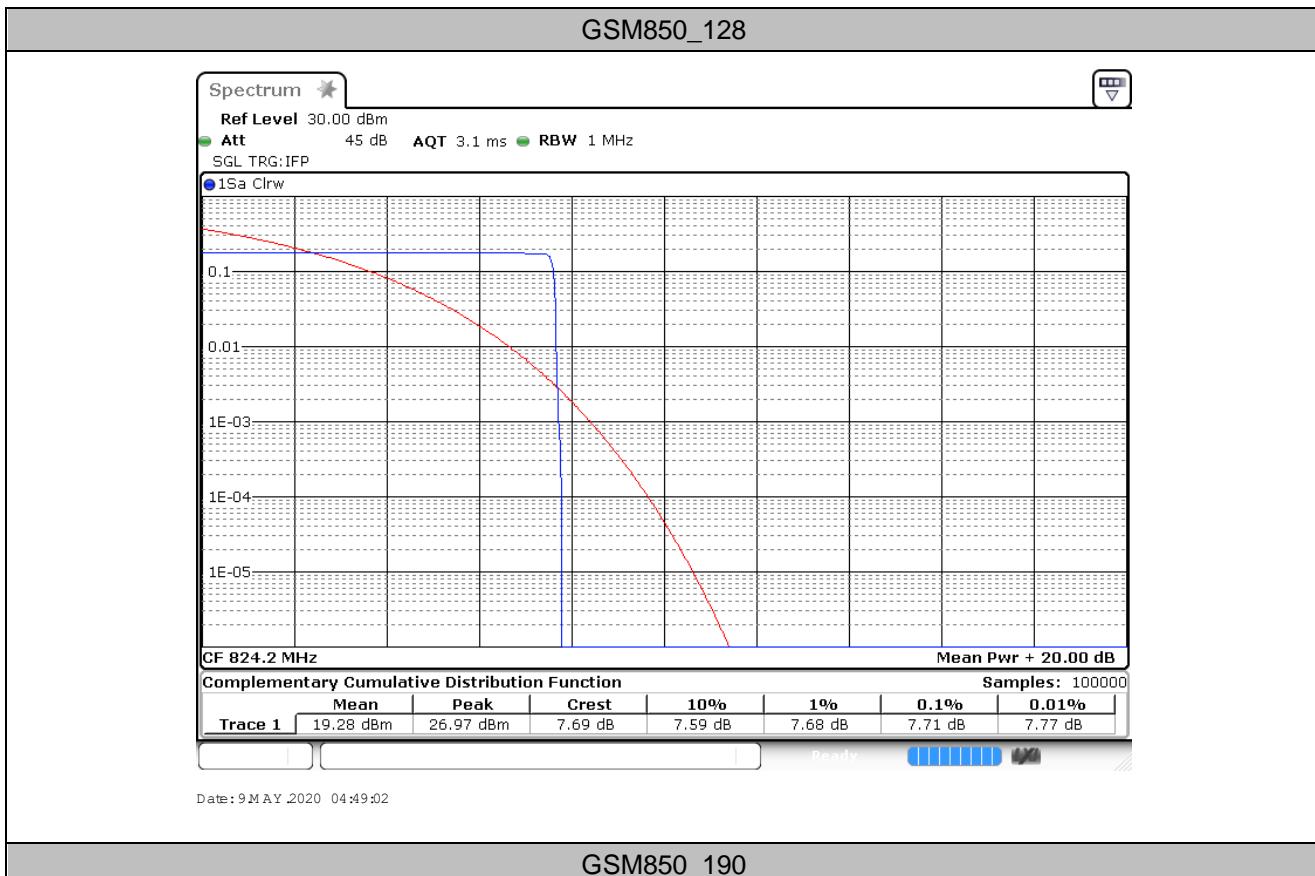
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## 2.2. Part II - Test PlotsS

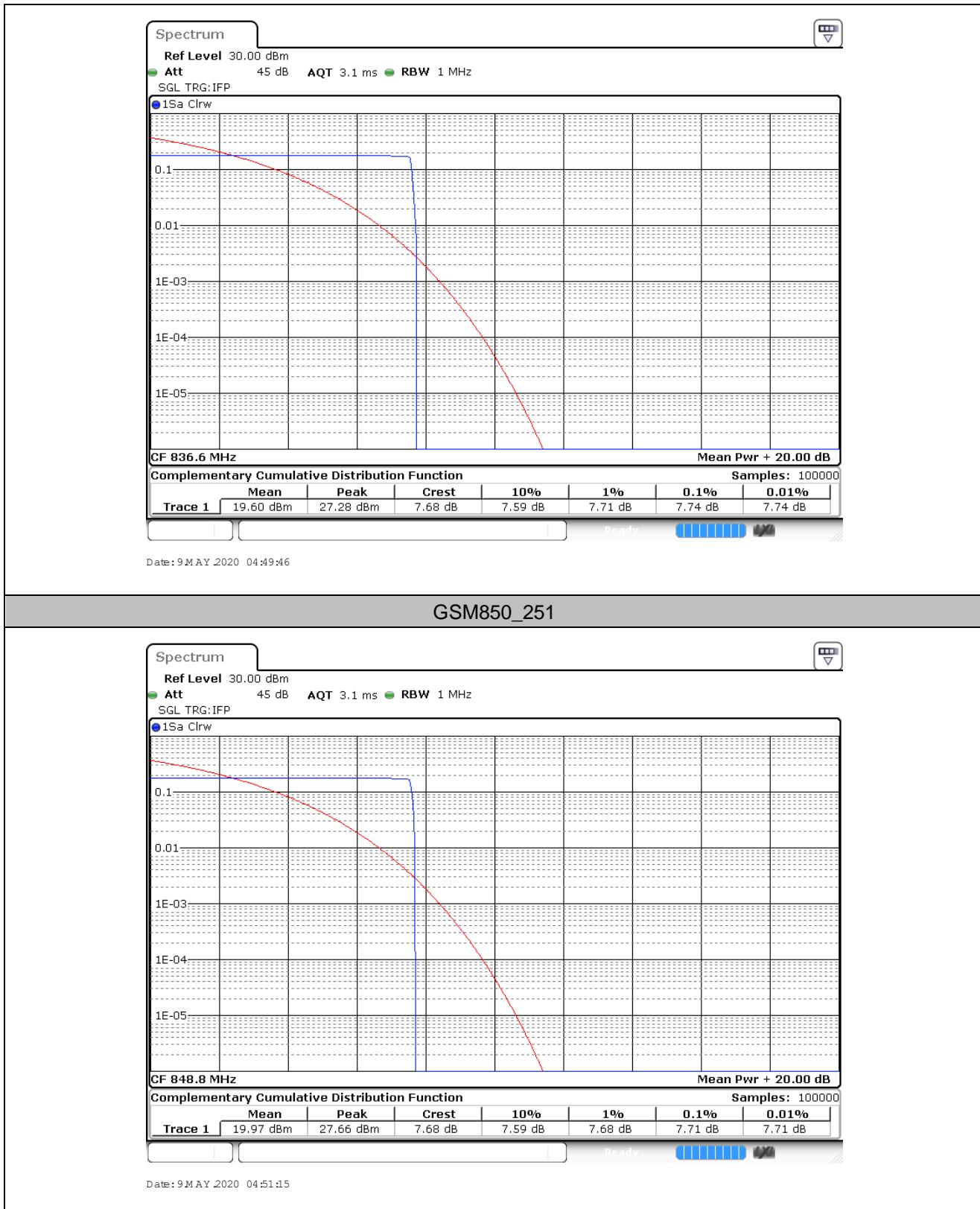


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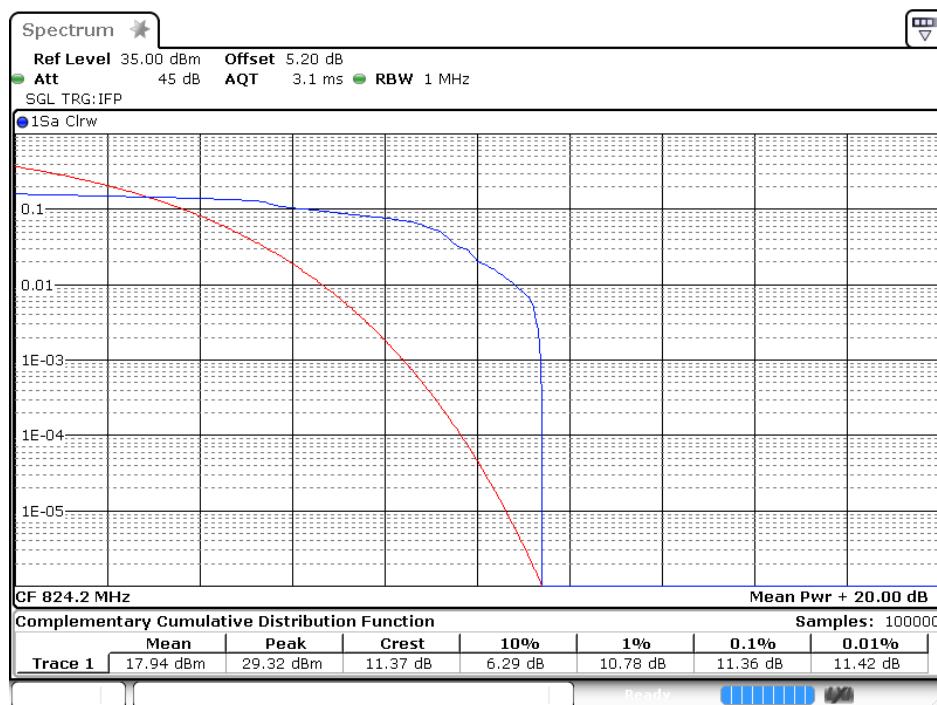
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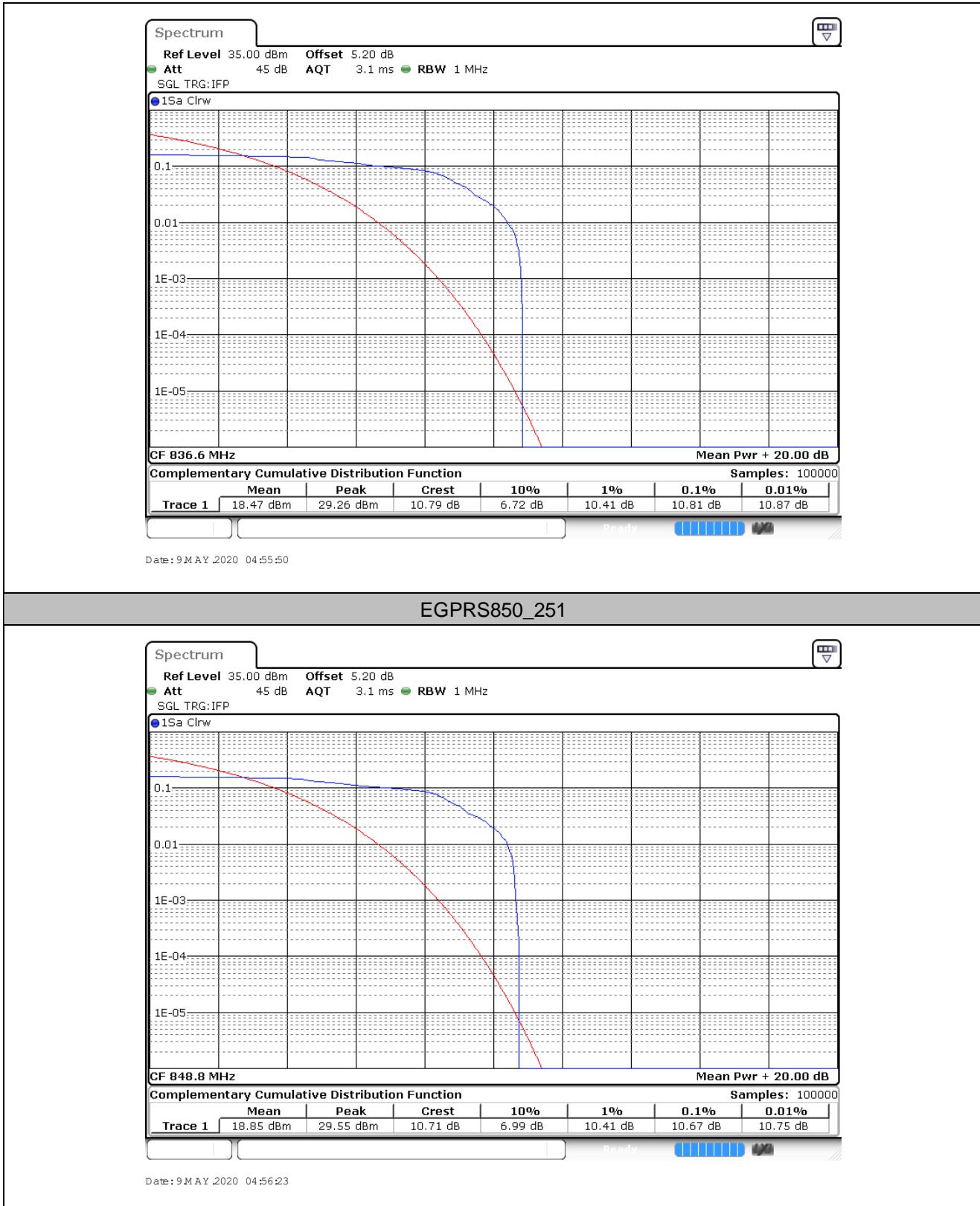
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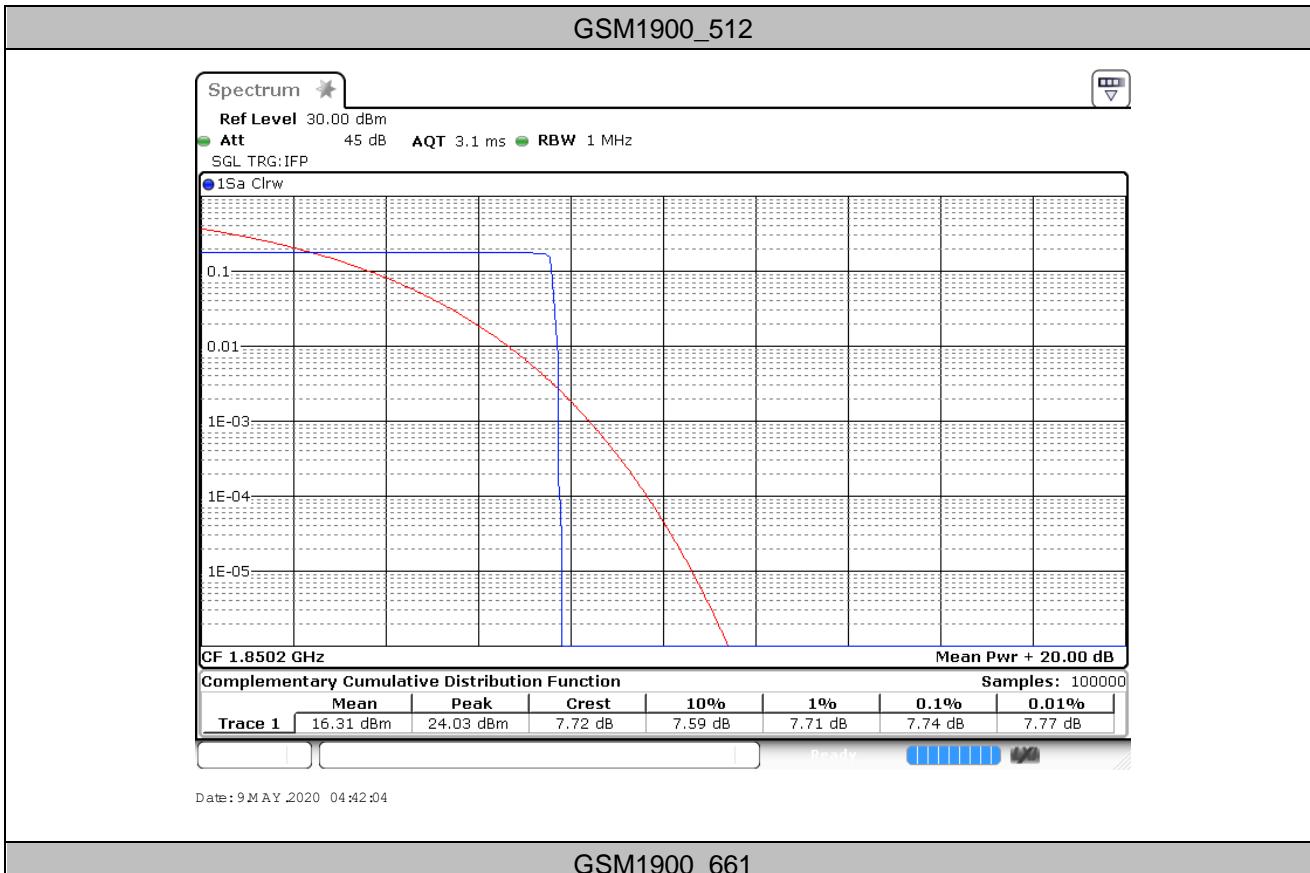
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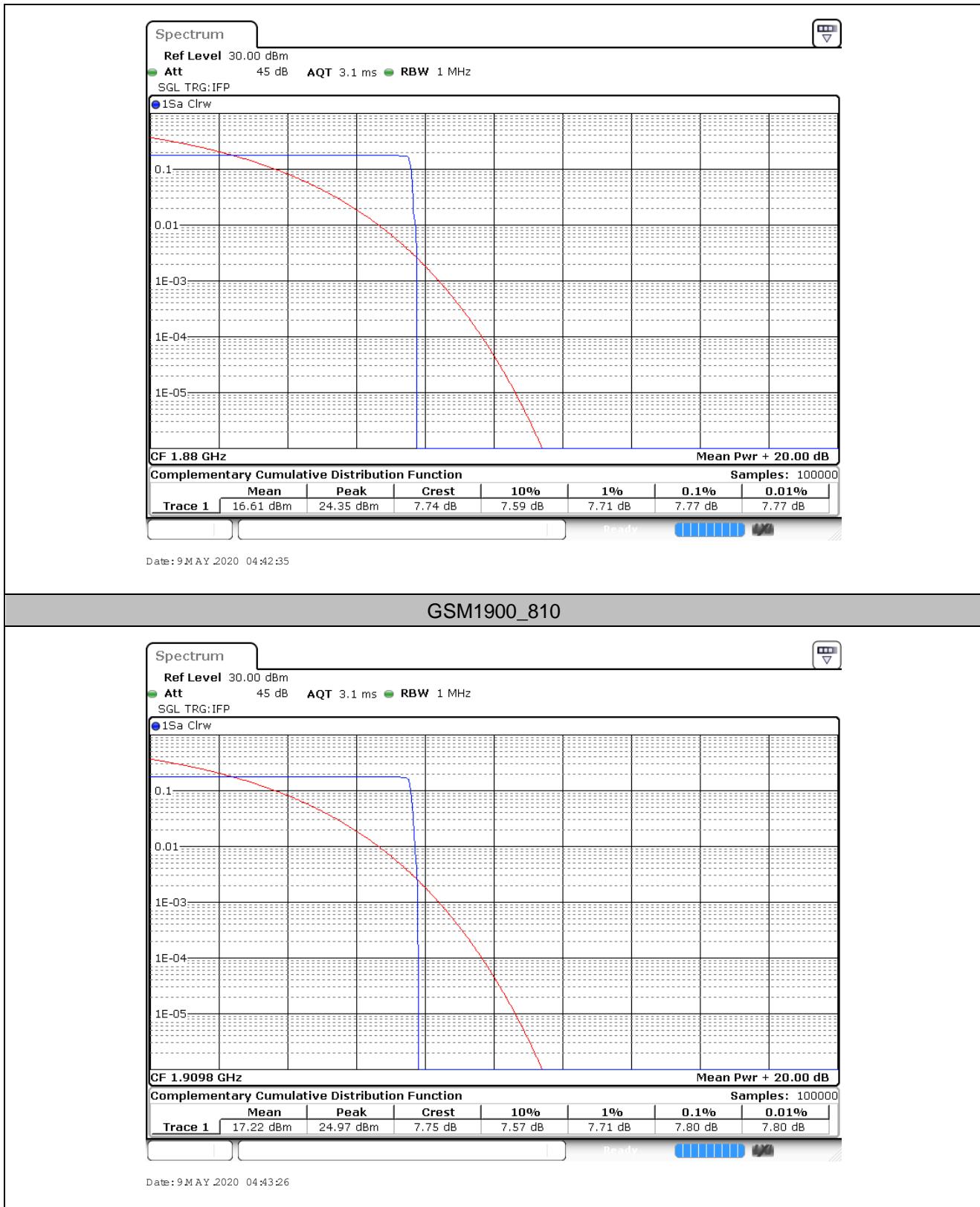
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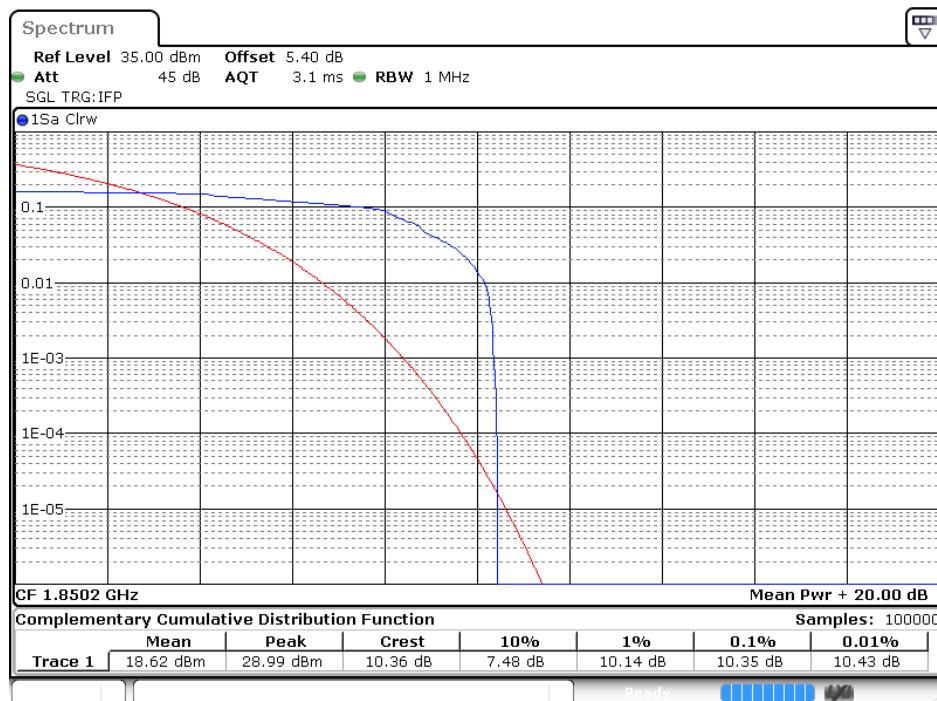
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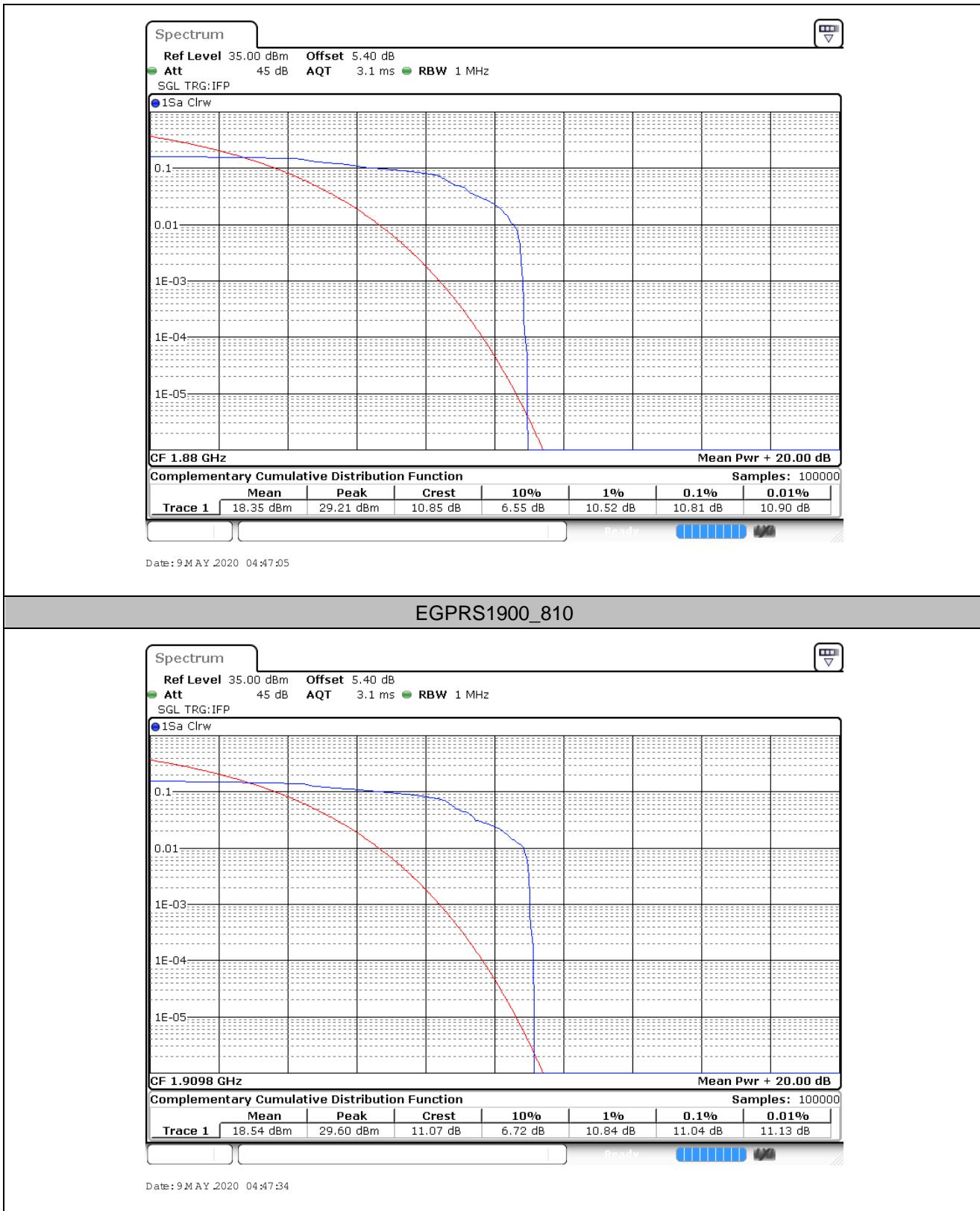
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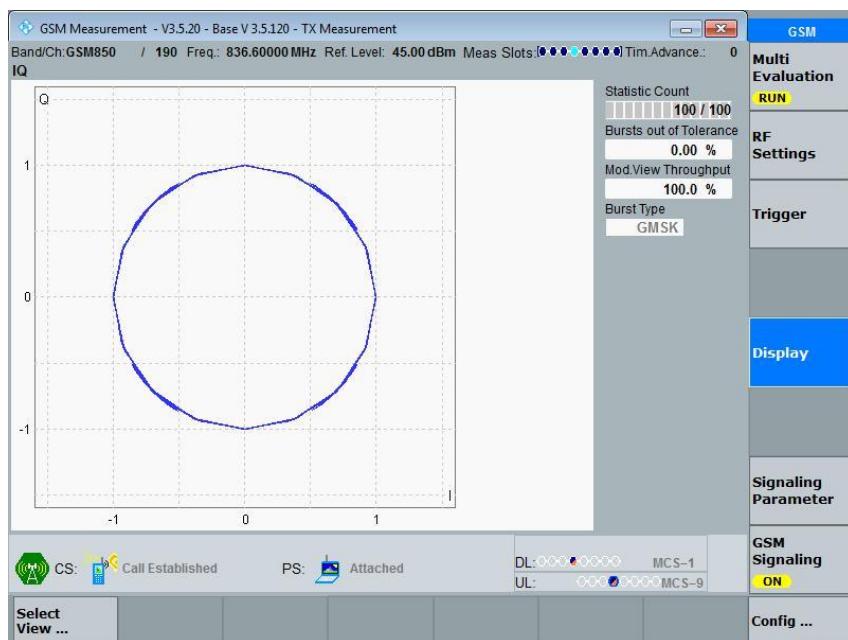
### 3. Modulation Characteristics

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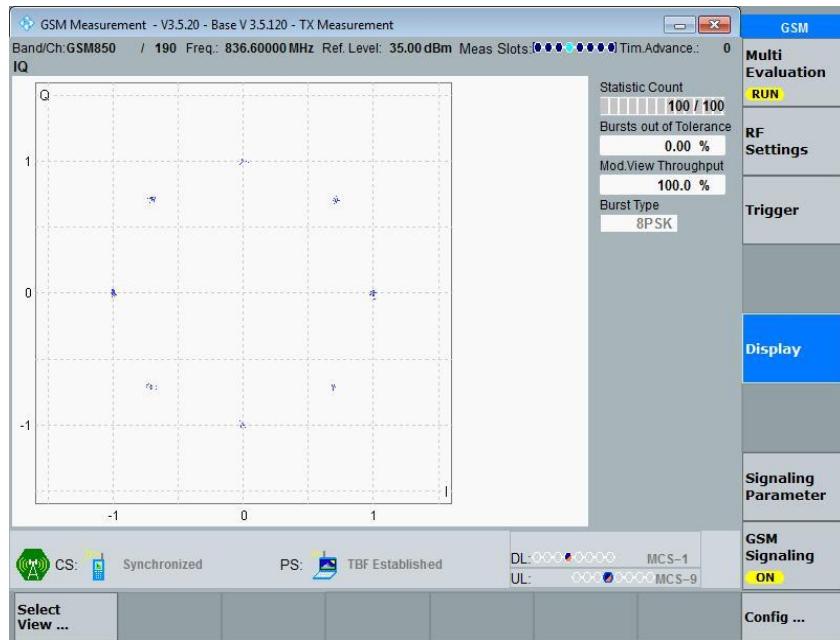
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### 3.1.1.2. Test Mode = GSM/TM2

### 3.1.1.2.1. Test Channel = MCH

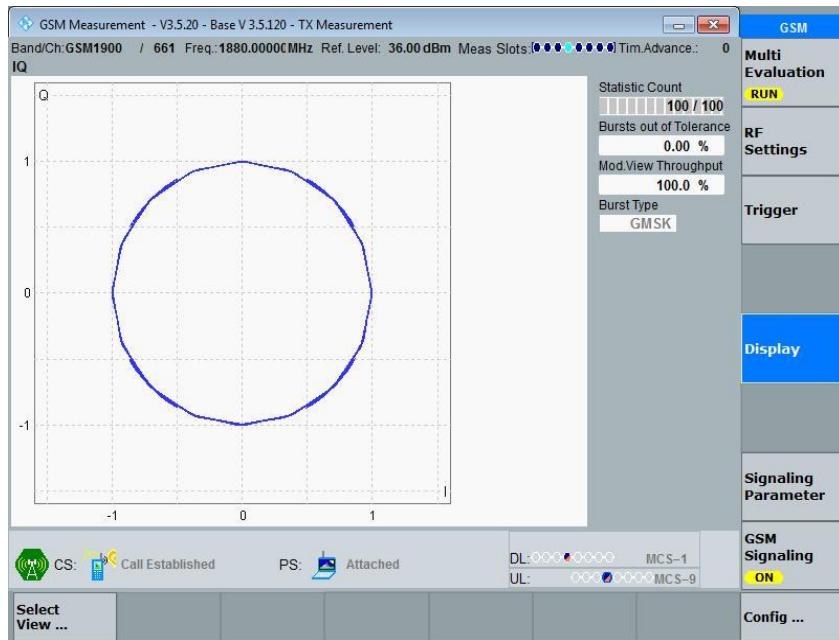


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**3.1.2. Test Band = GSM 1900****3.1.2.1. Test Mode = GSM/TM1****3.1.2.1.1. Test Channel = MCH**

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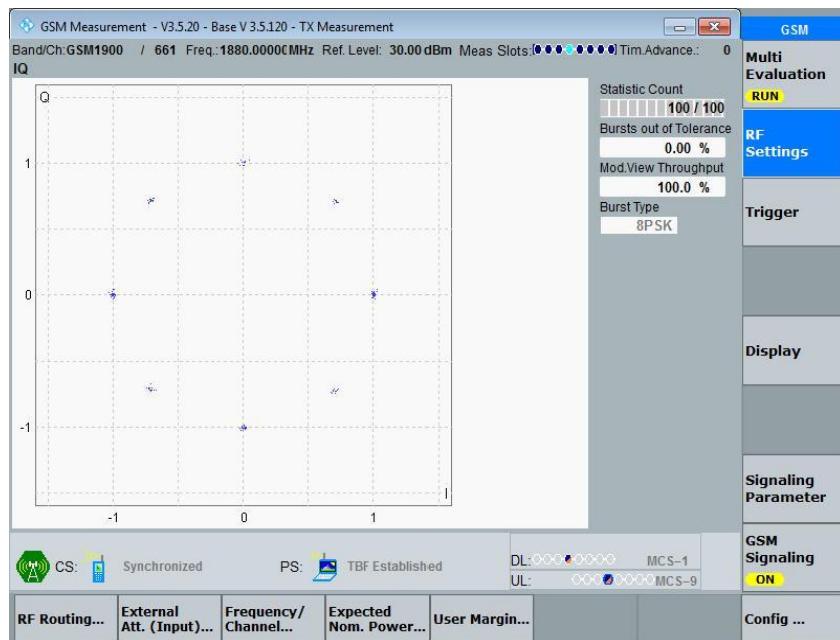
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### 3.1.2.2. Test Mode = GSM/TM2

#### 3.1.2.2.1. Test Channel = MCH



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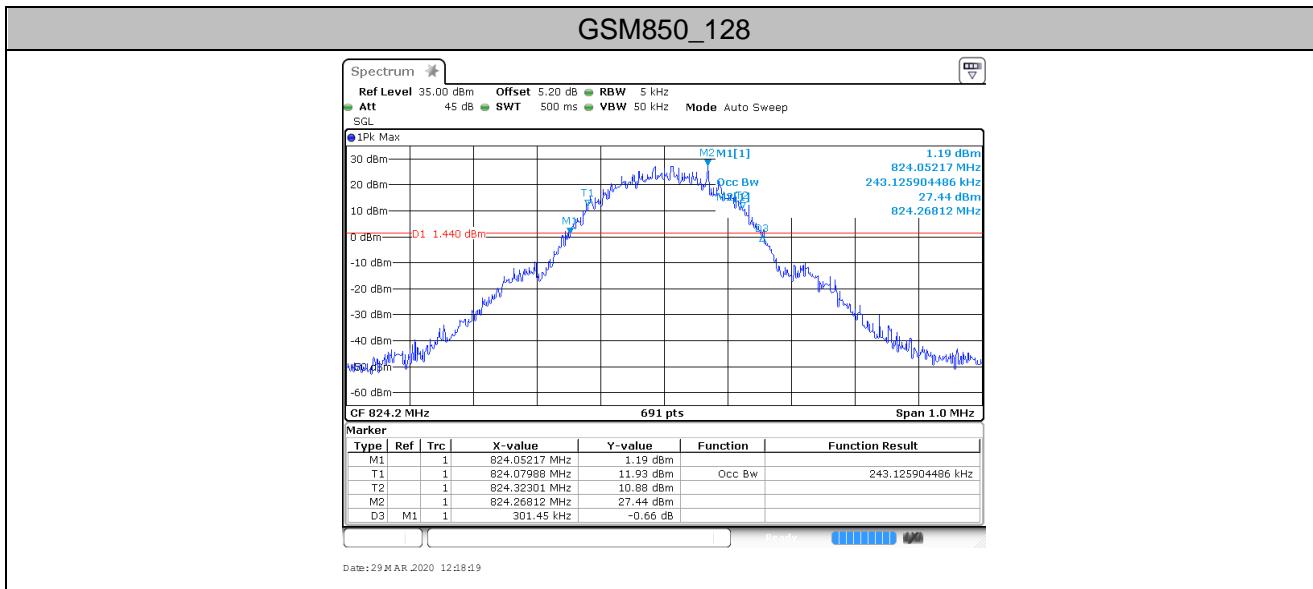
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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
GSM850	128	243.13	301.45	---	PASS
GSM850	190	247.47	310.14	---	PASS
GSM850	251	246.02	302.90	---	PASS
EGPRS850	128	243.13	298.55	---	PASS
EGPRS850	190	250.36	307.25	---	PASS
EGPRS850	251	244.57	295.65	---	PASS
GSM1900	512	241.68	300.00	---	PASS
GSM1900	661	241.68	298.55	---	PASS
GSM1900	810	246.02	307.25	---	PASS
EGPRS1900	512	240.23	295.65	---	PASS
EGPRS1900	661	243.13	292.75	---	PASS
EGPRS1900	810	243.13	284.06	---	PASS

### 4.2. Test Plots

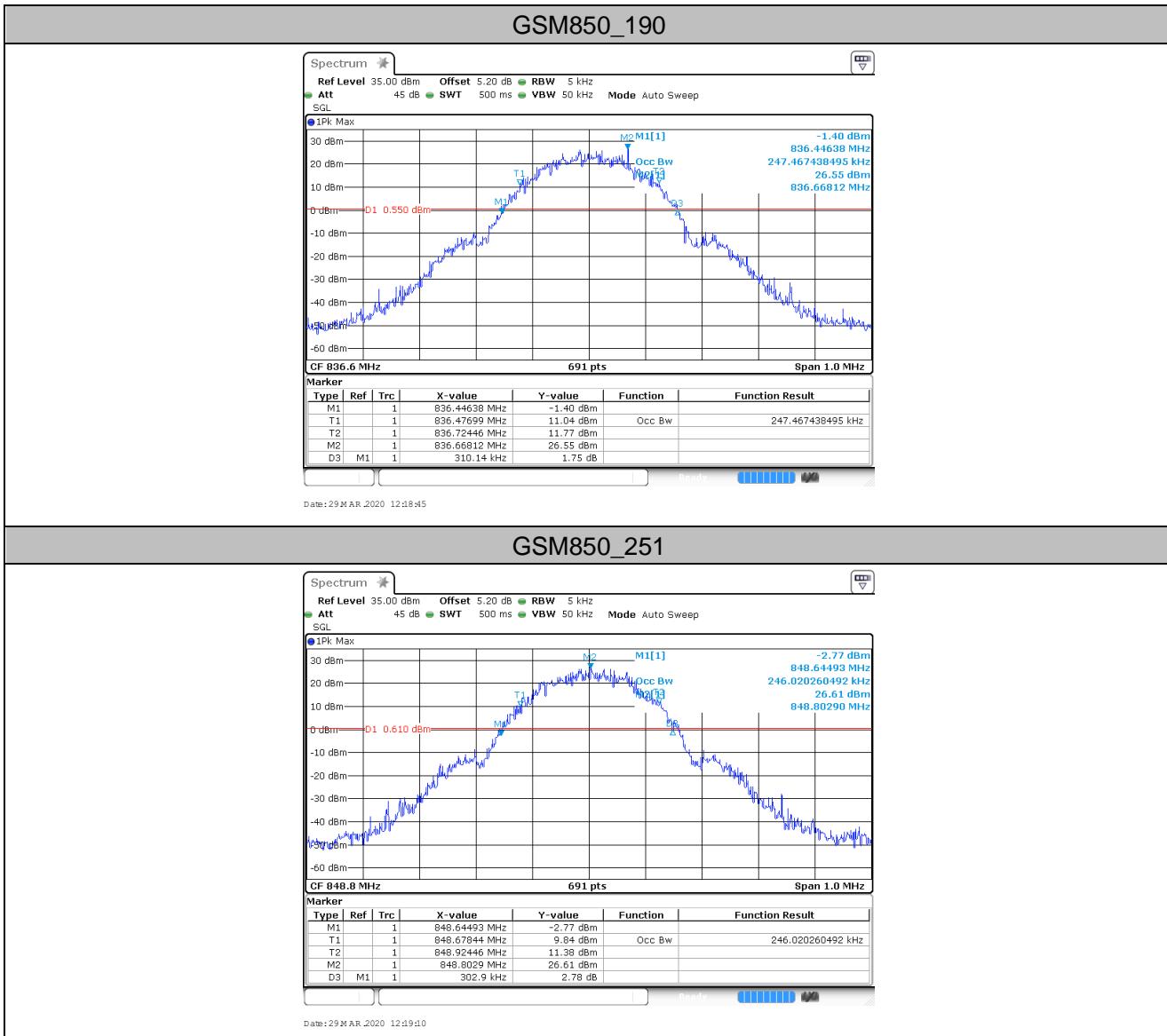


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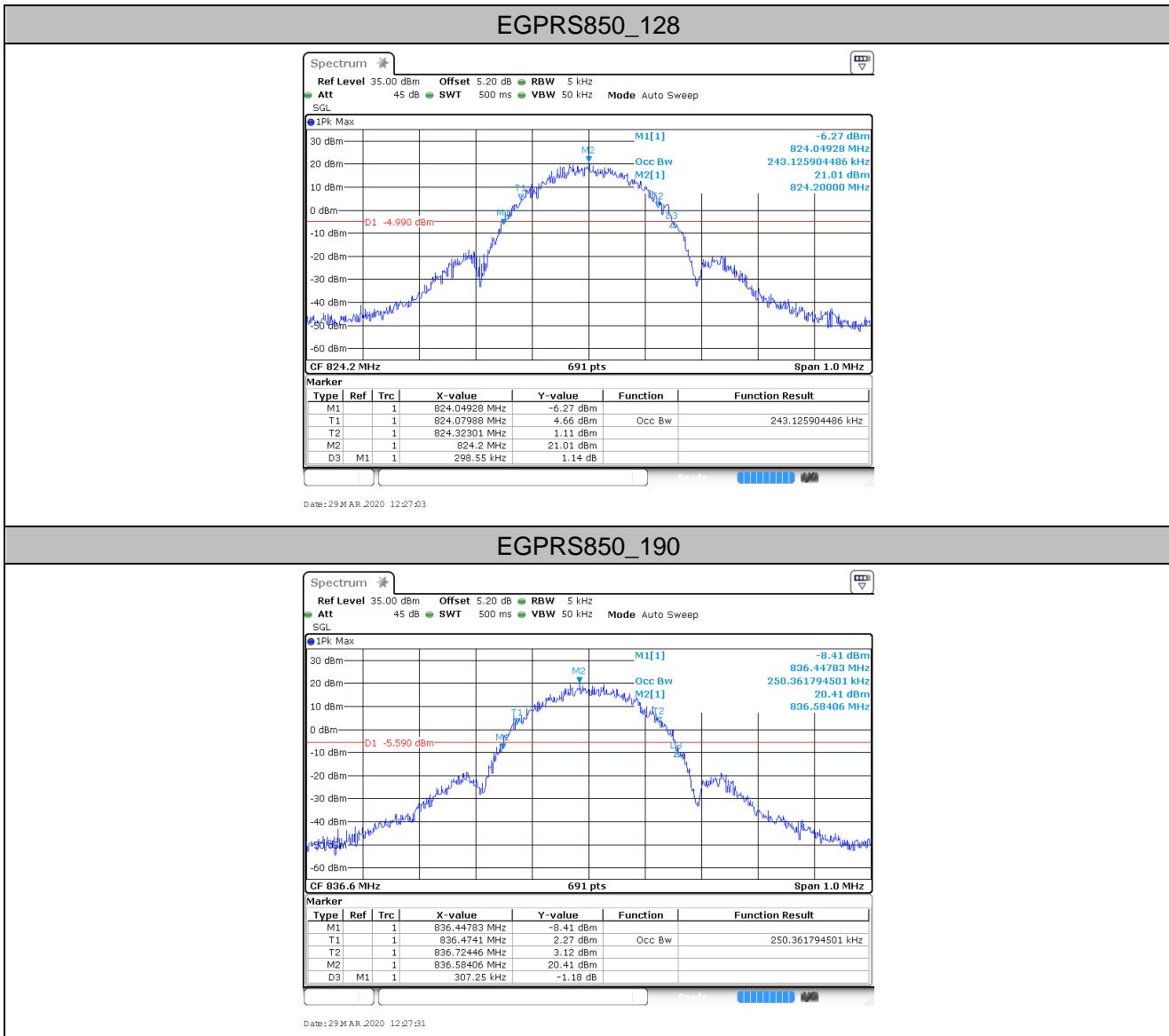
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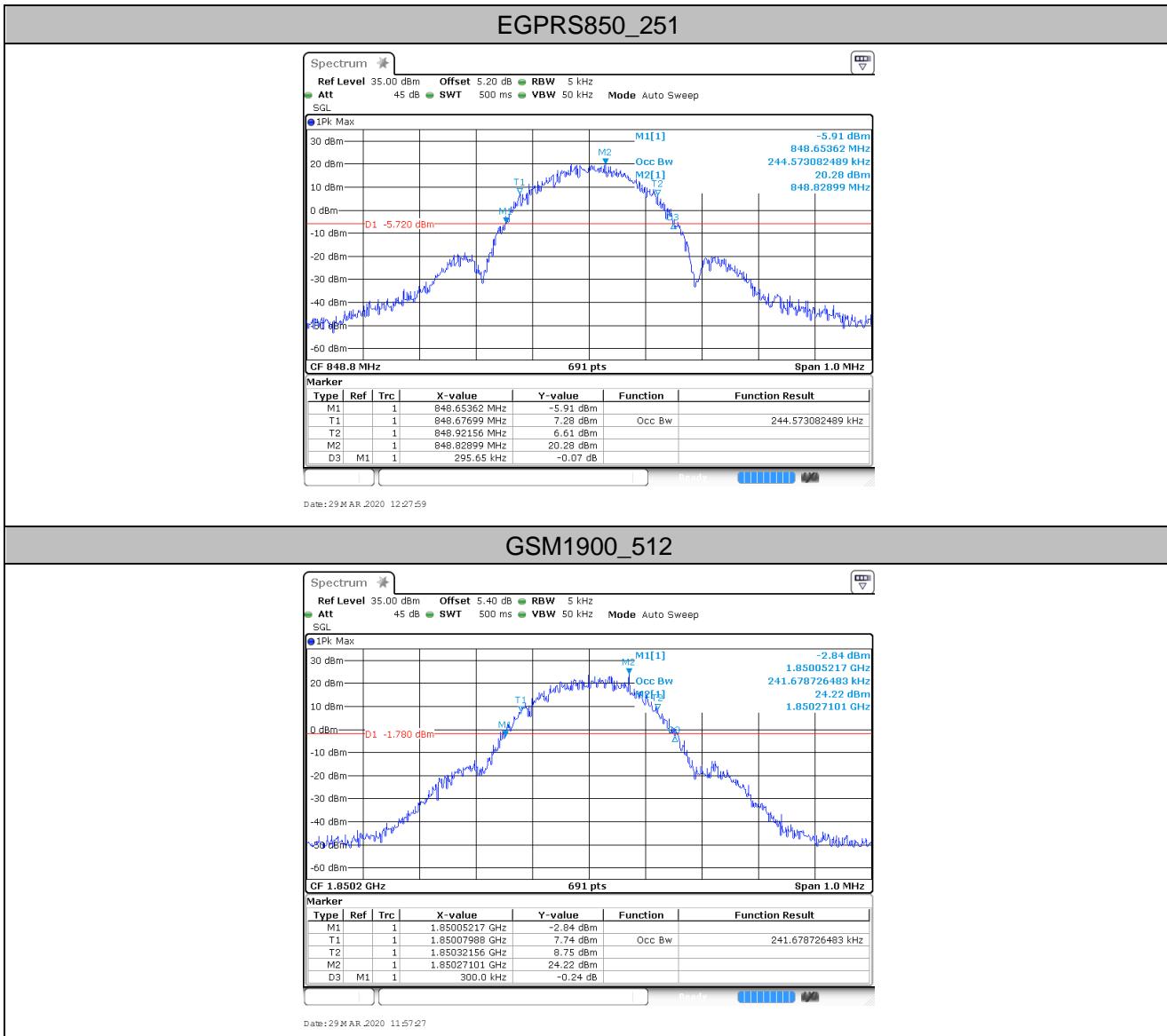
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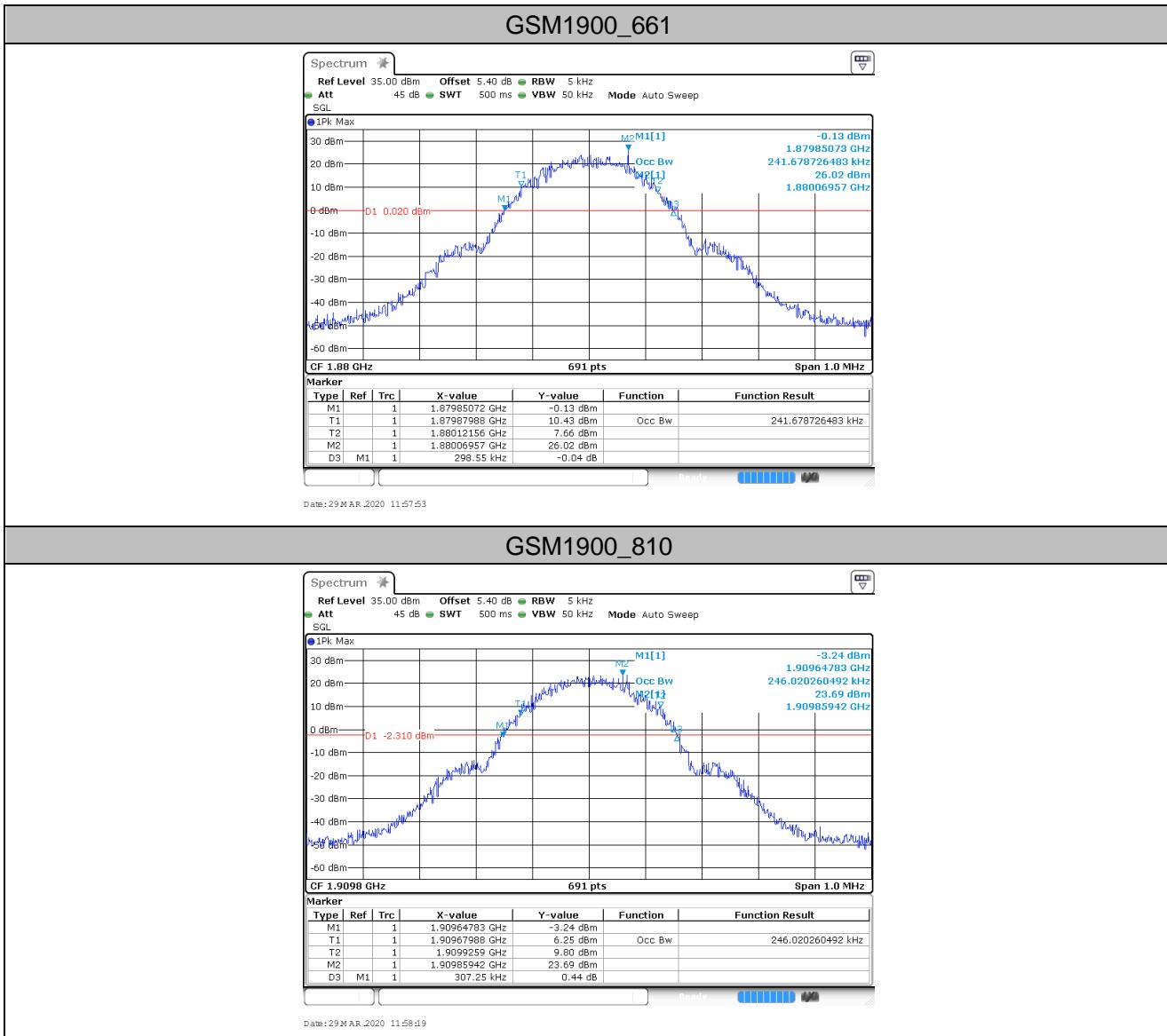


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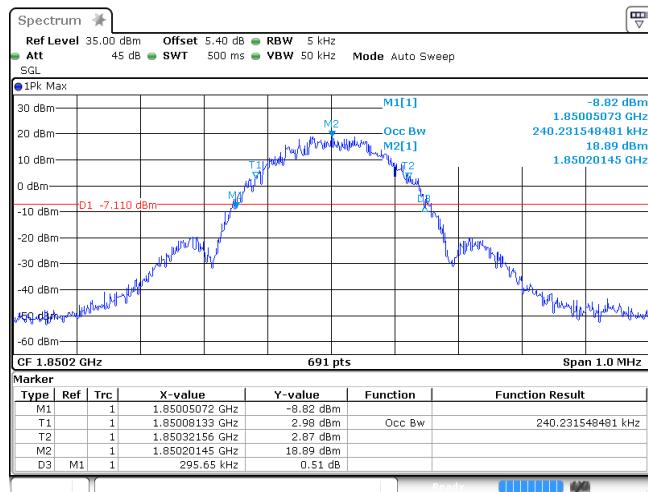
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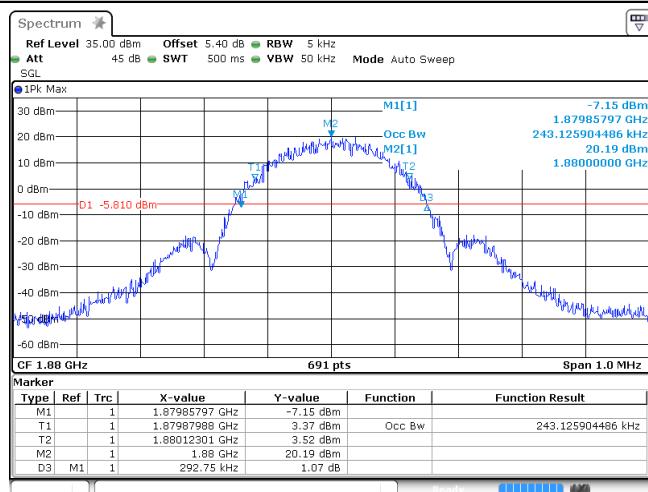
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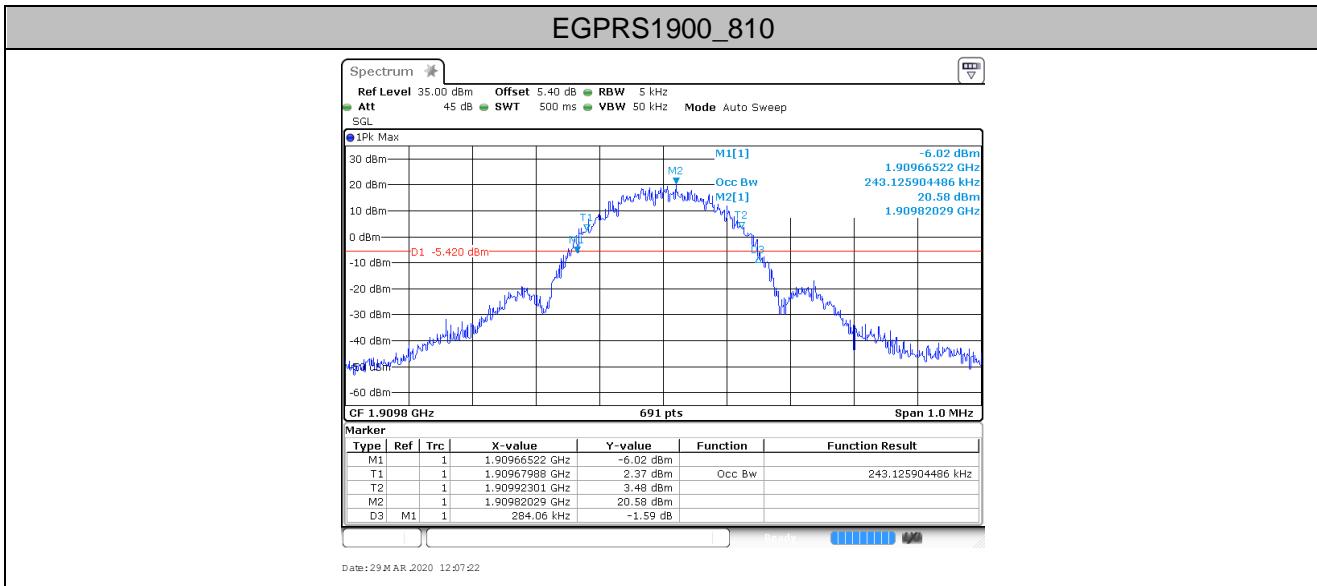


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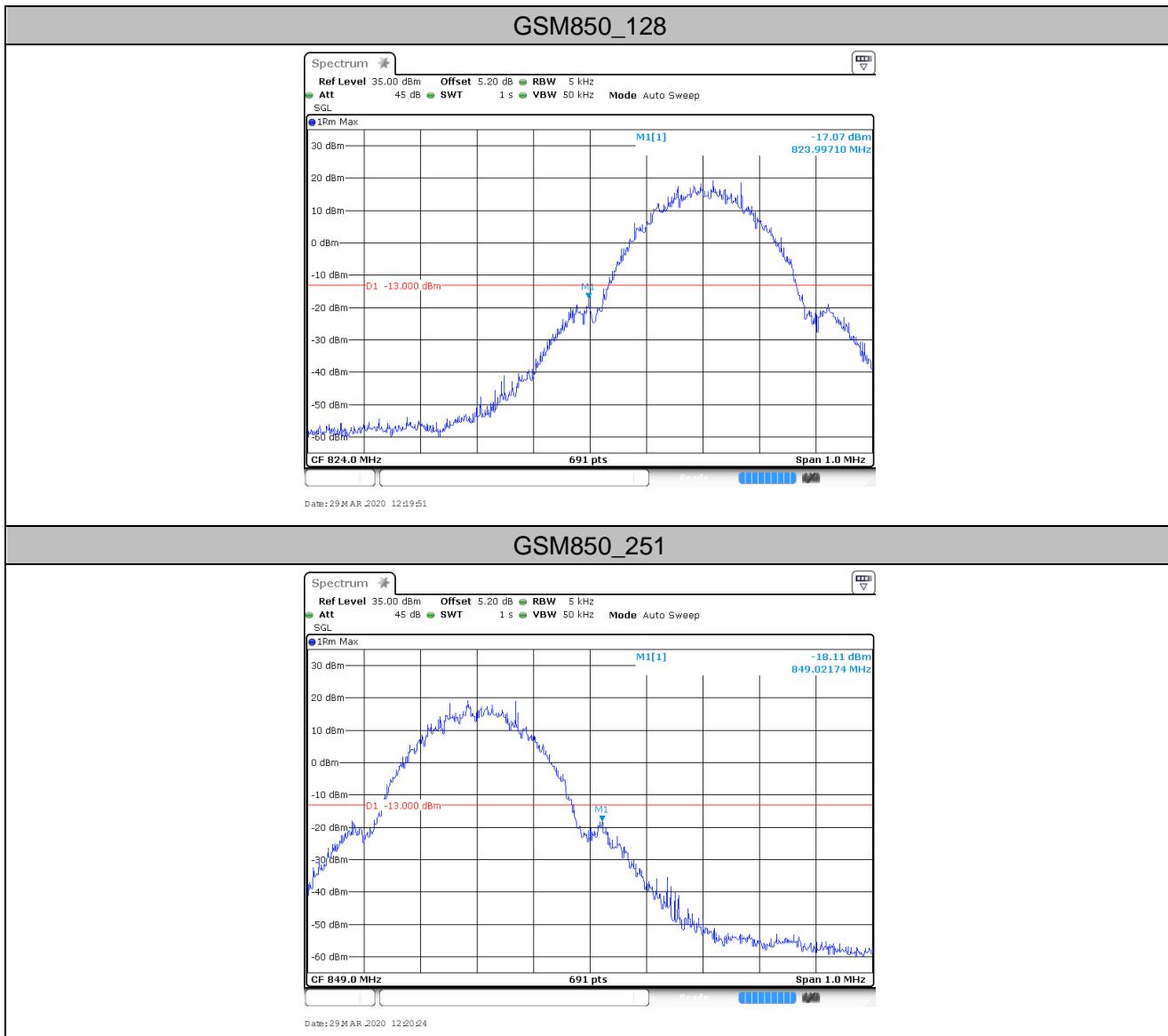


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## 5. Band Edge Compliance

### 5.1. Test Plots

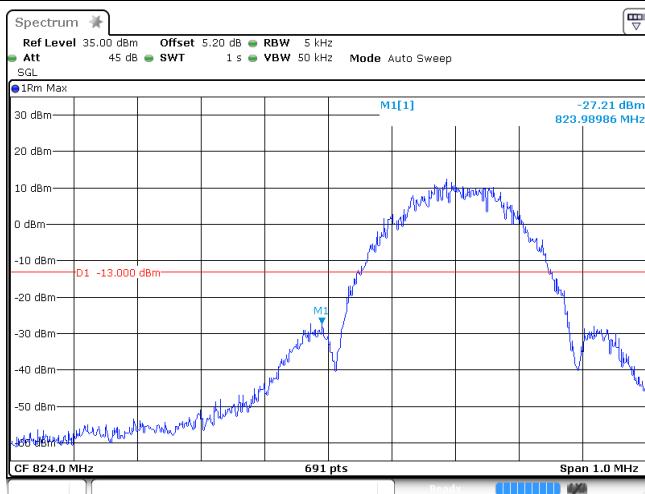


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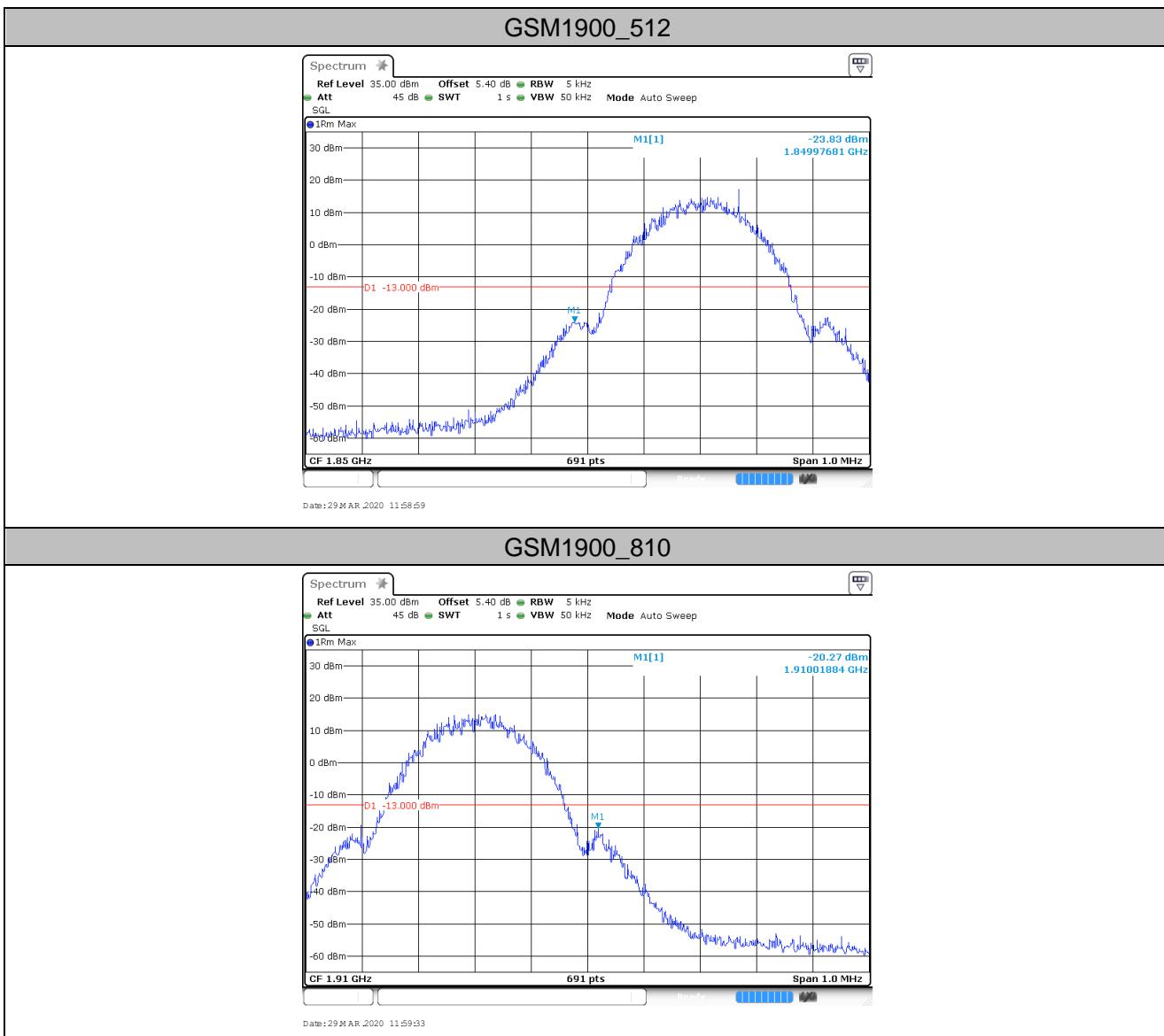
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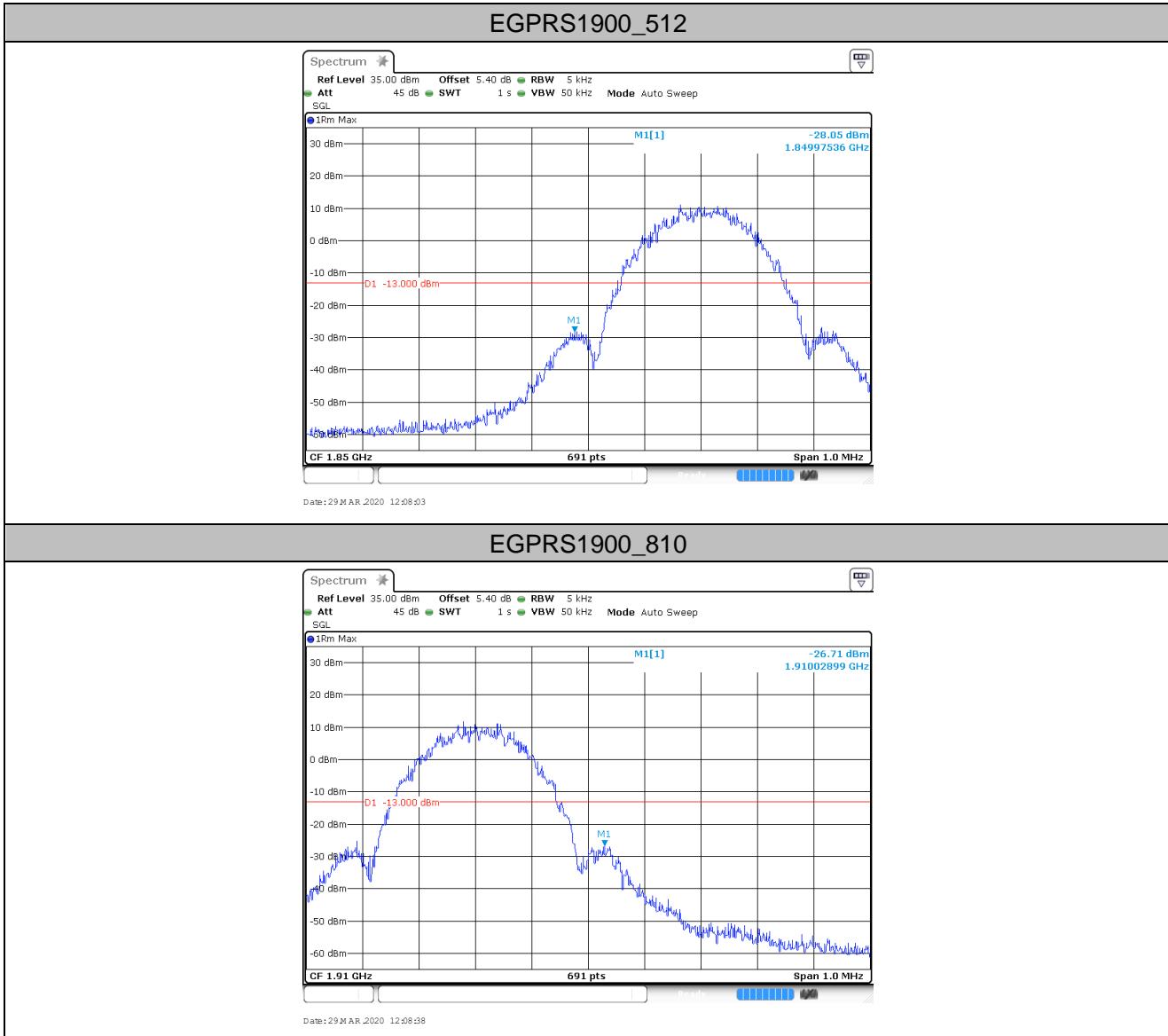


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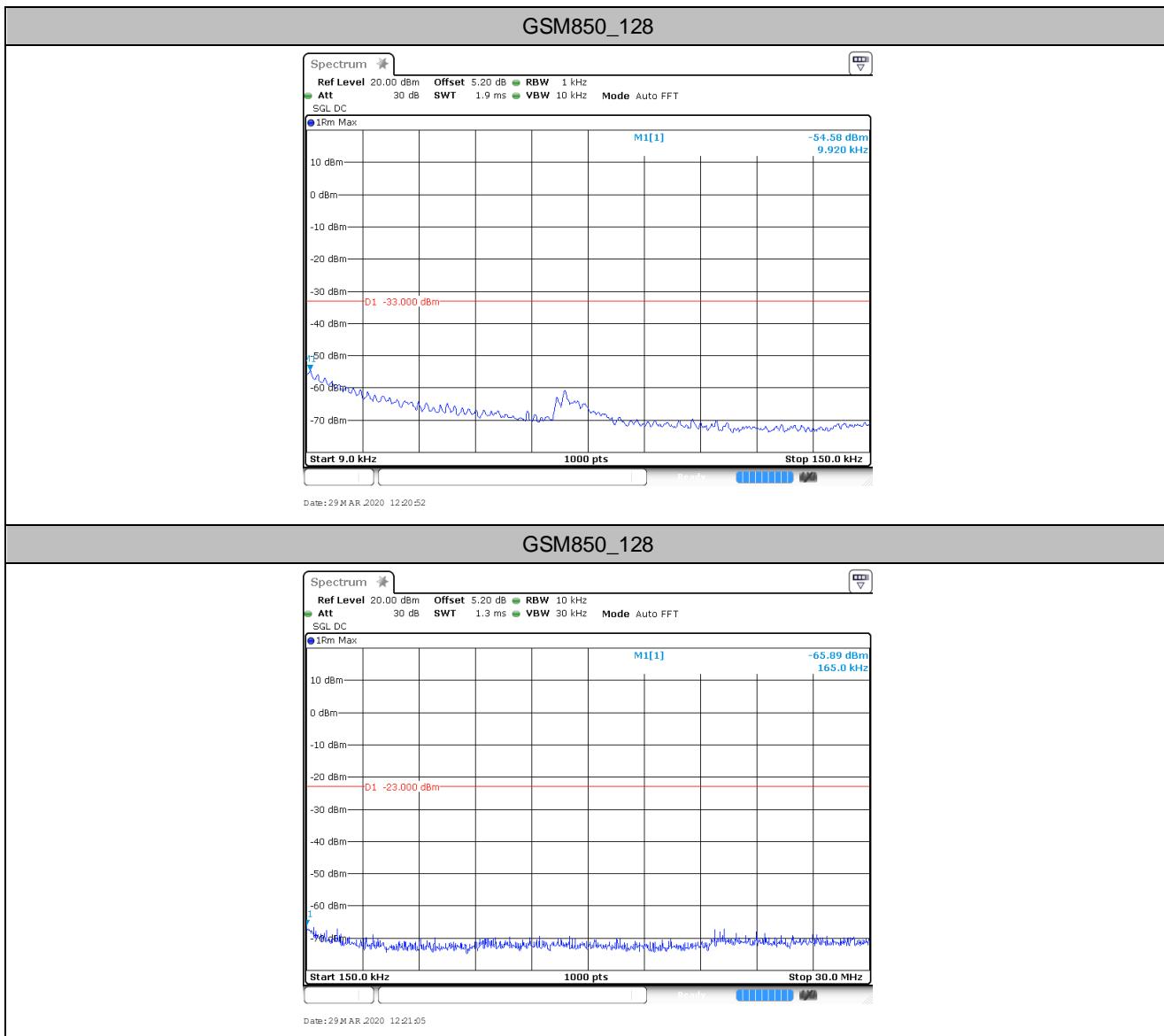
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## 6. Spurious Emission at Antenna Terminal

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



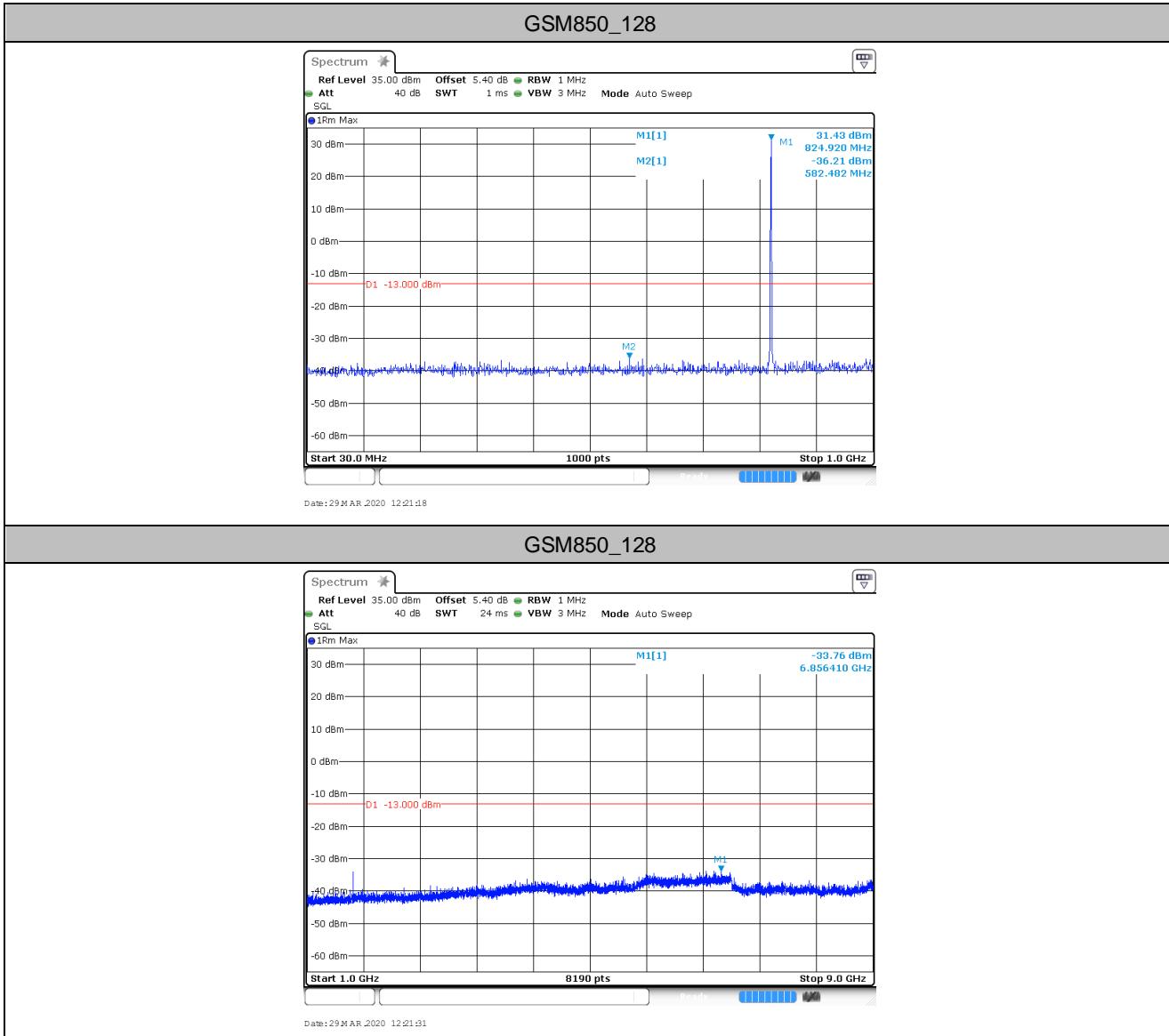
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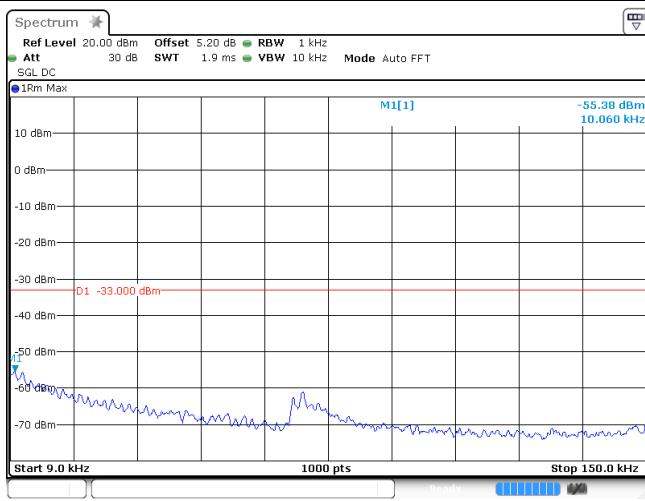


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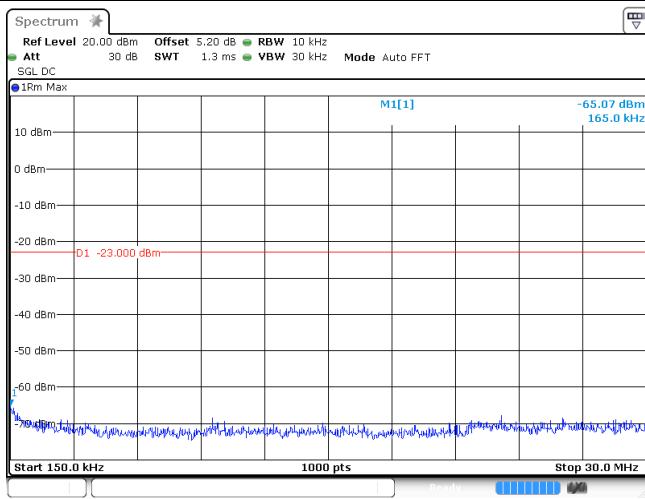
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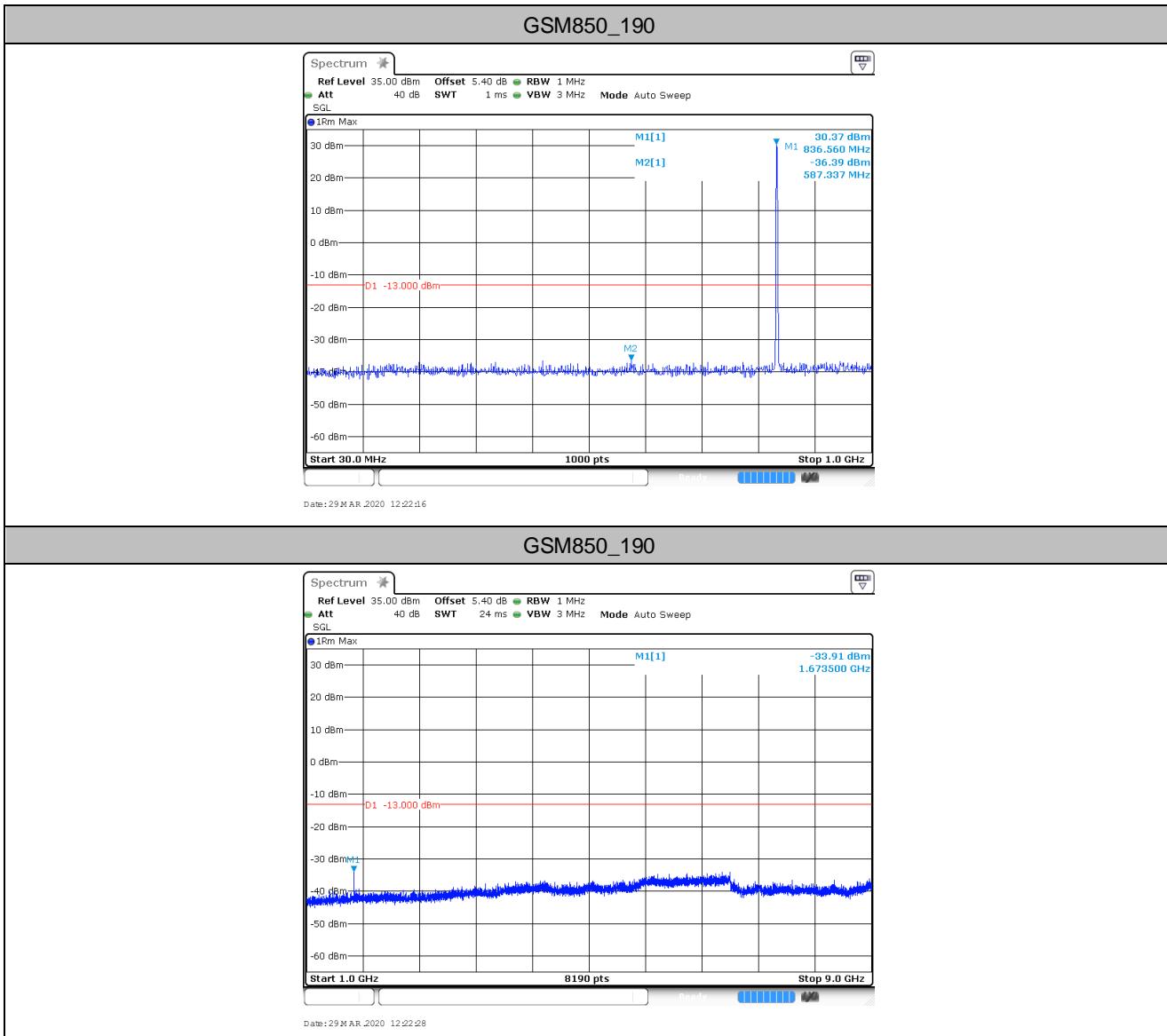
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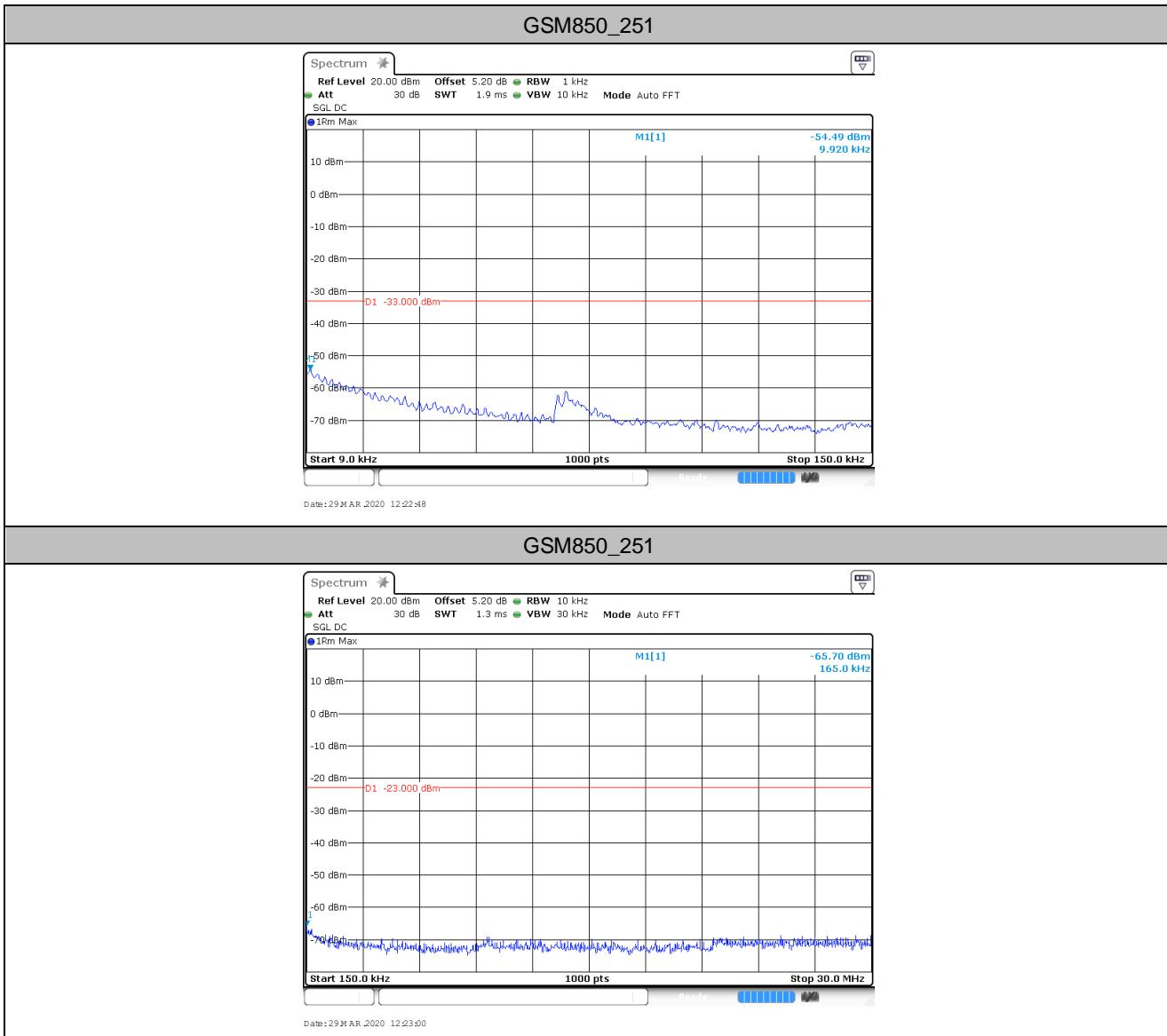


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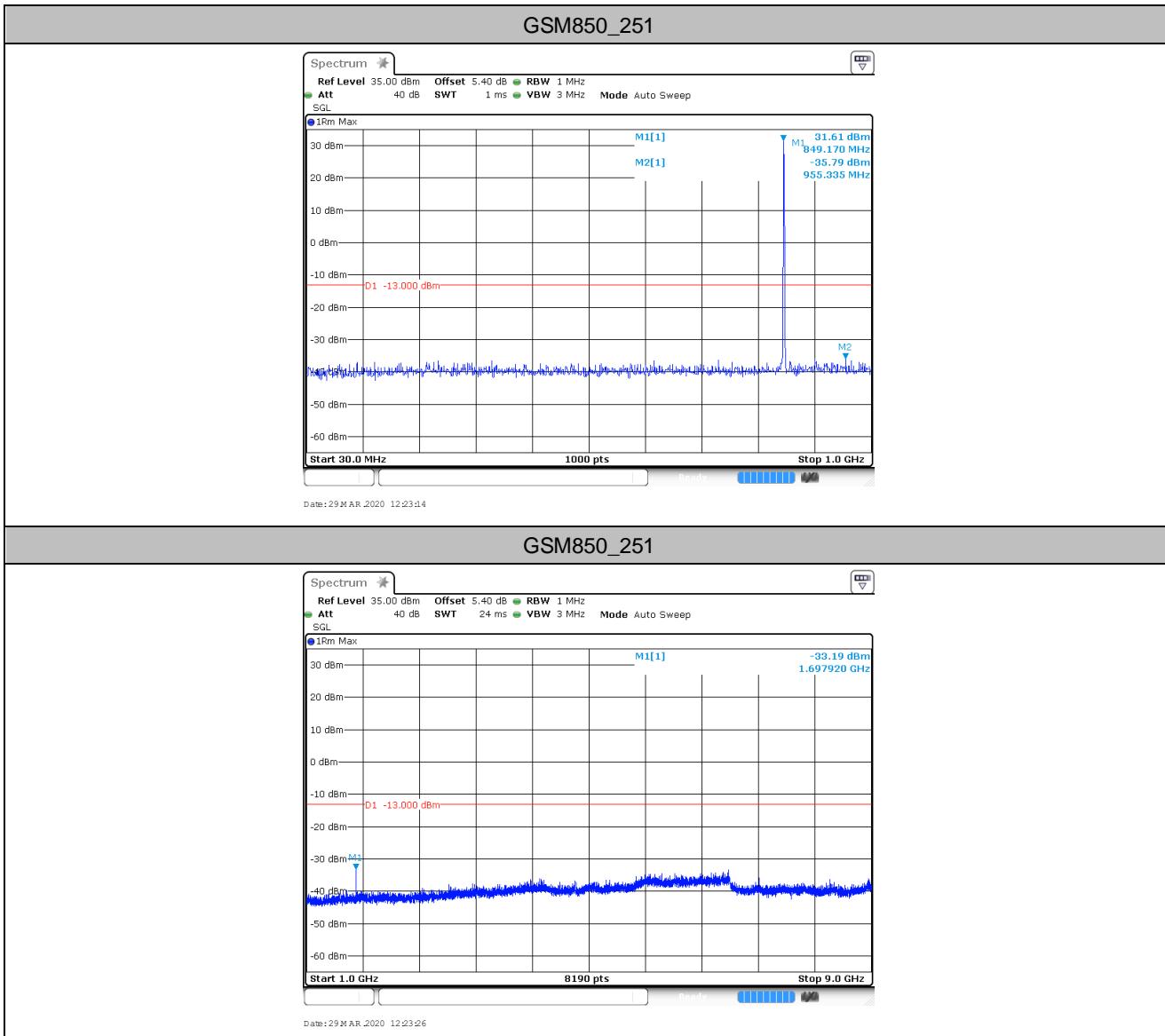
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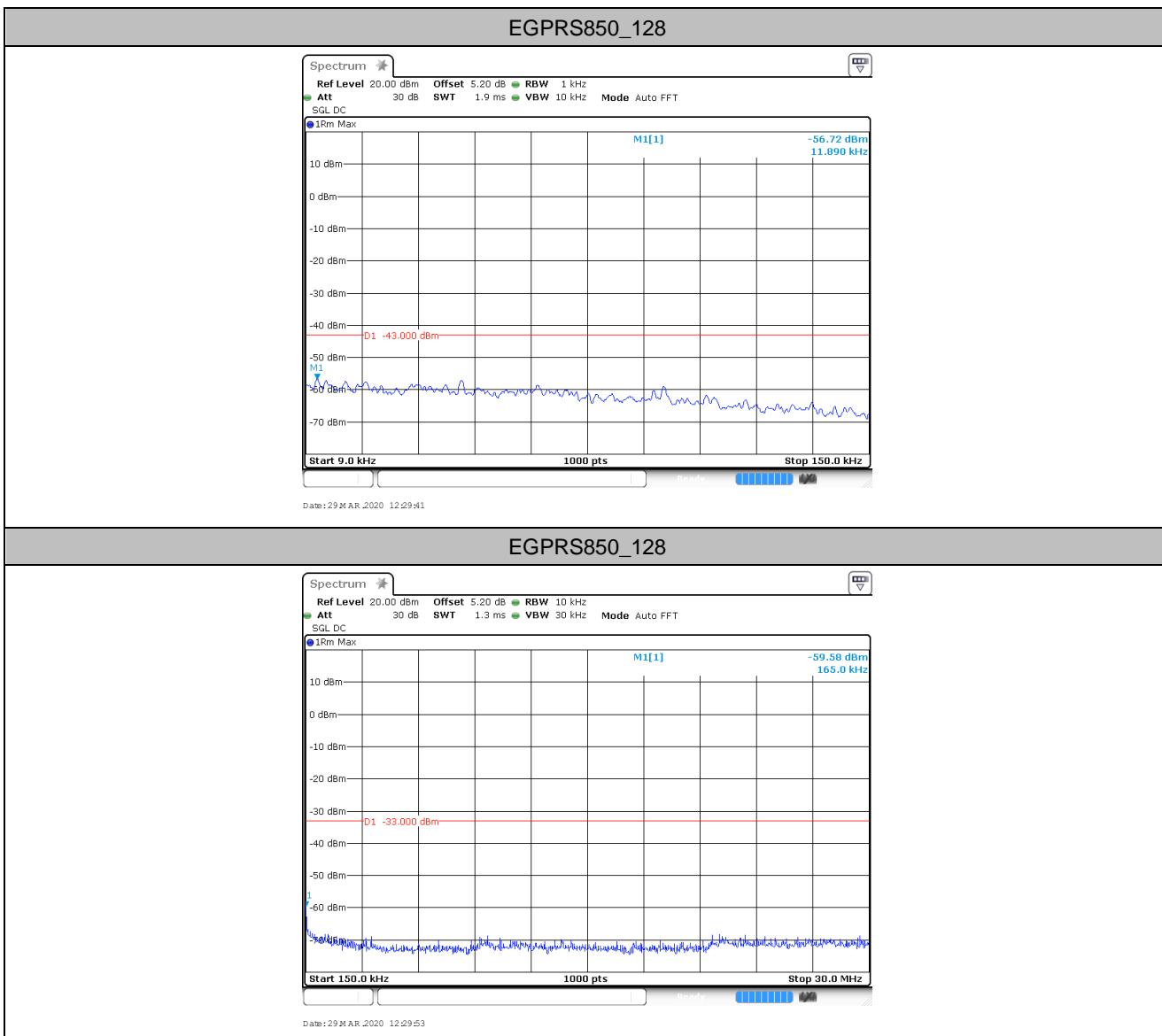


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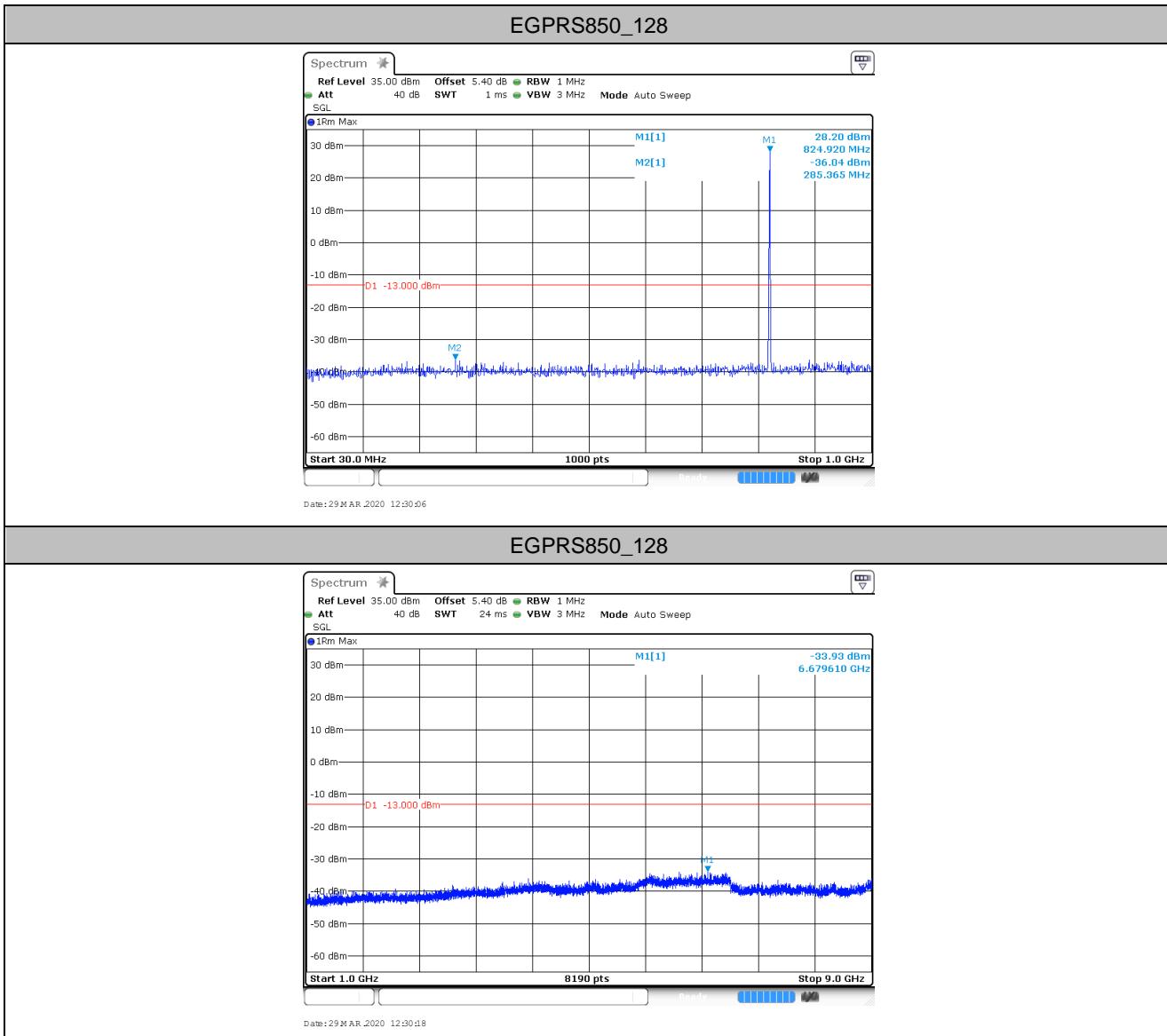


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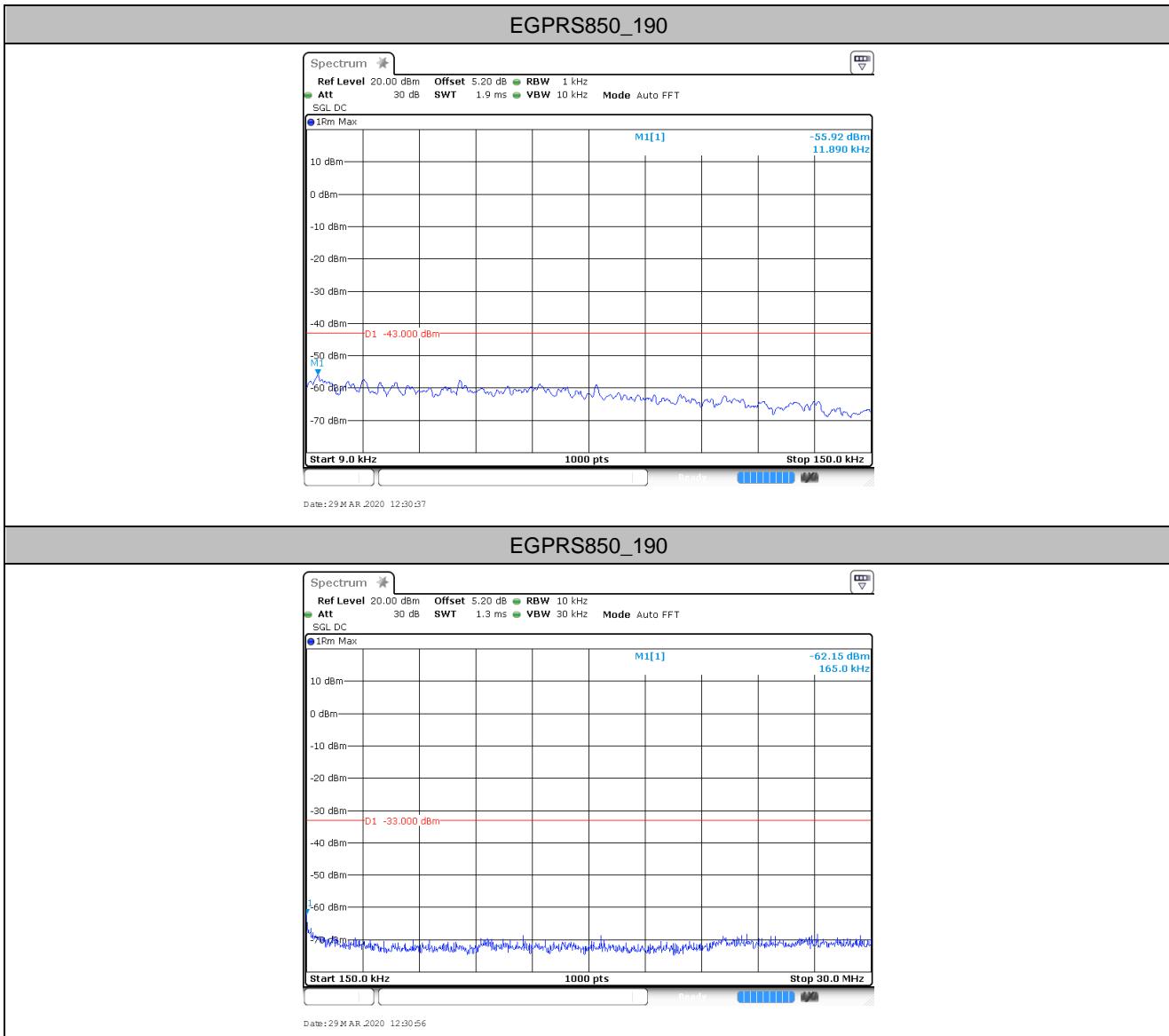
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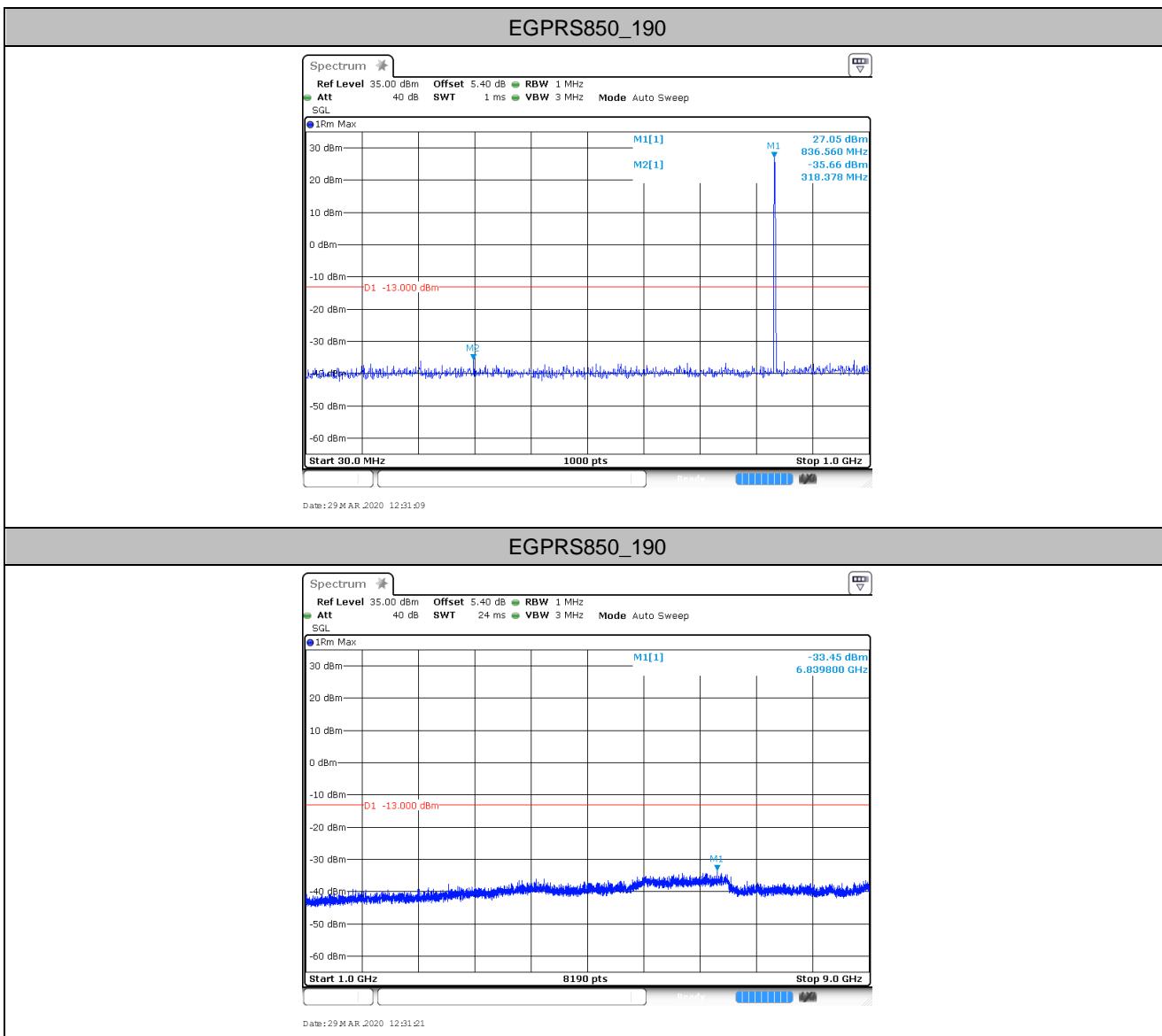


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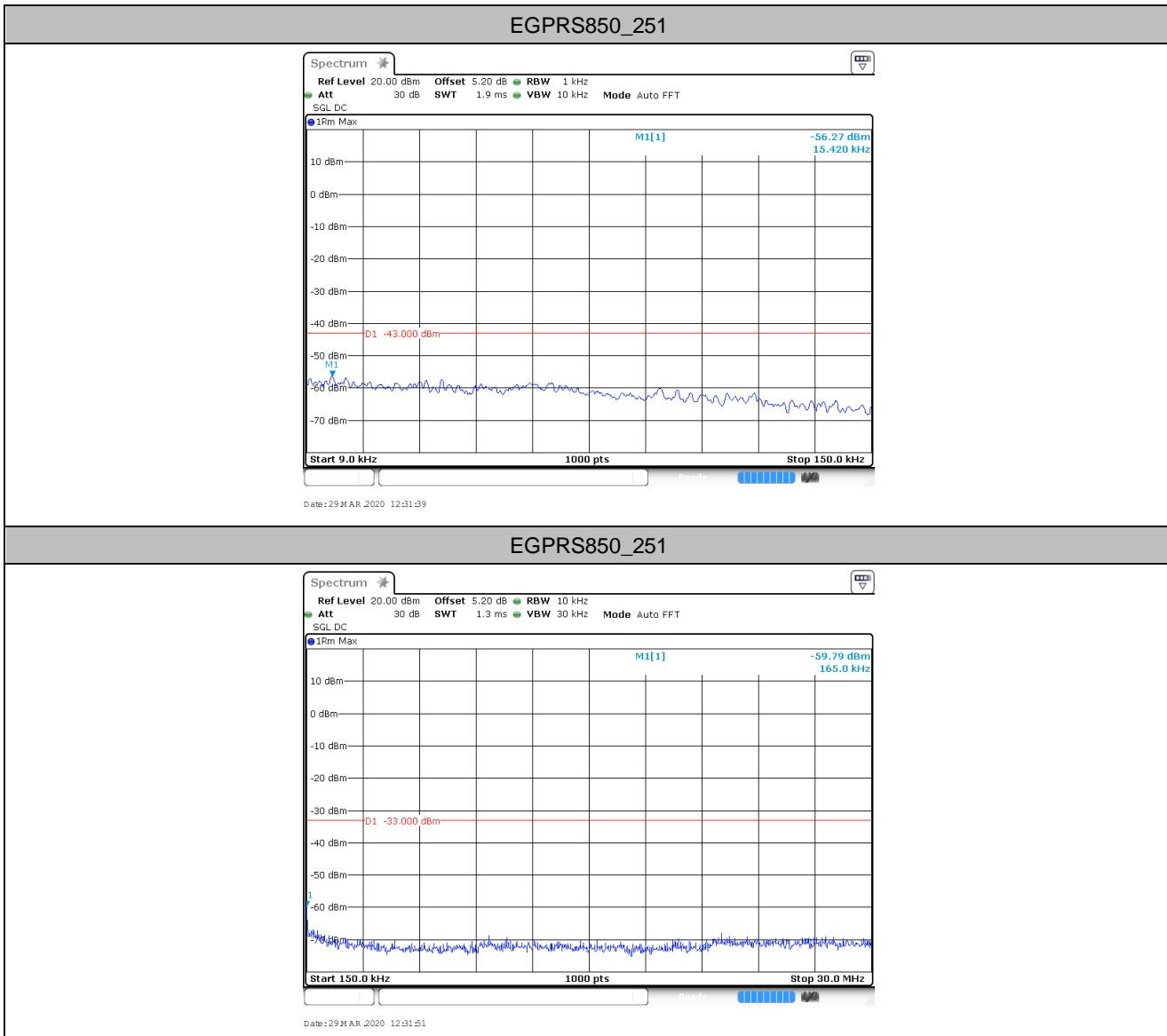


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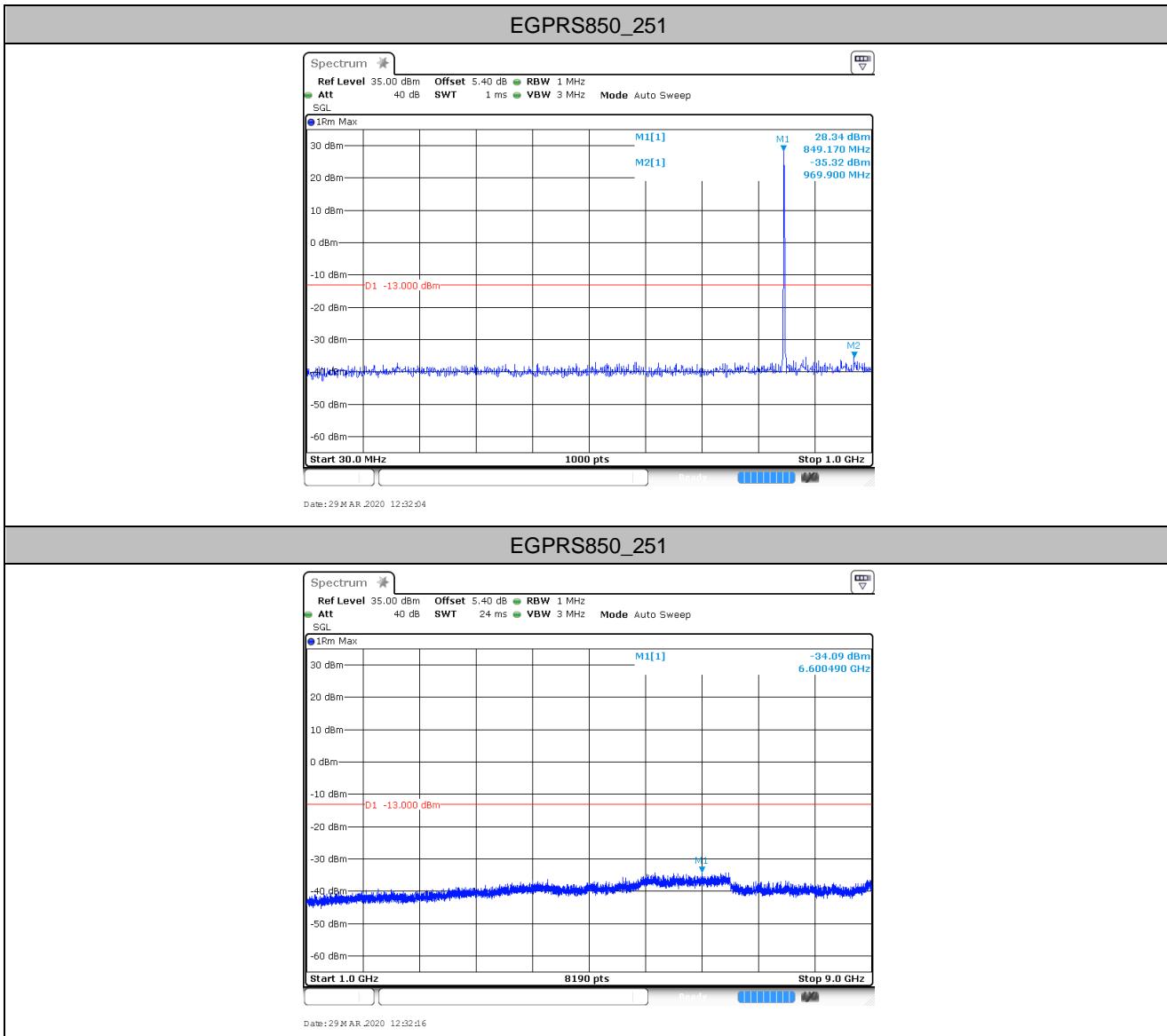
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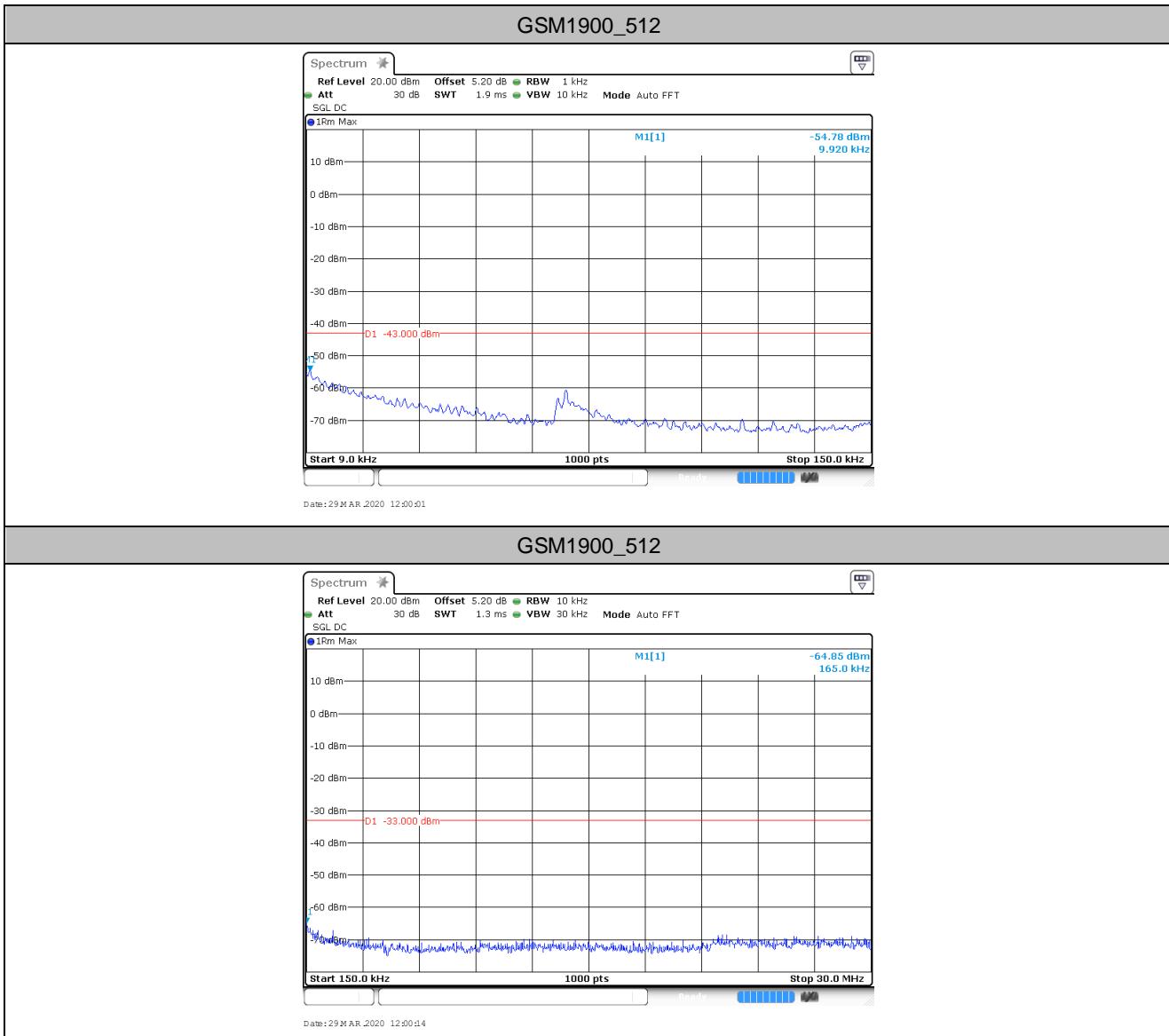
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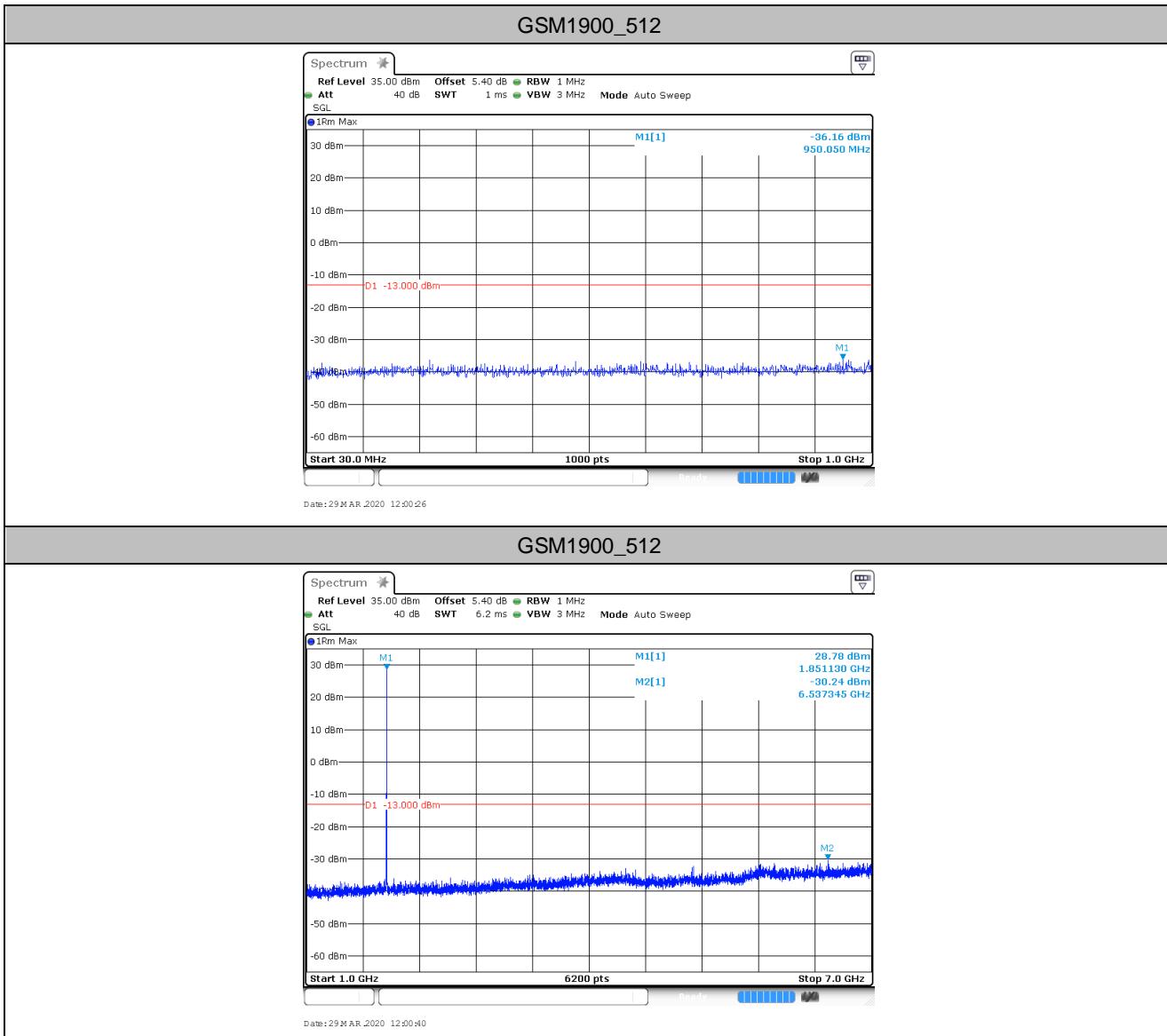
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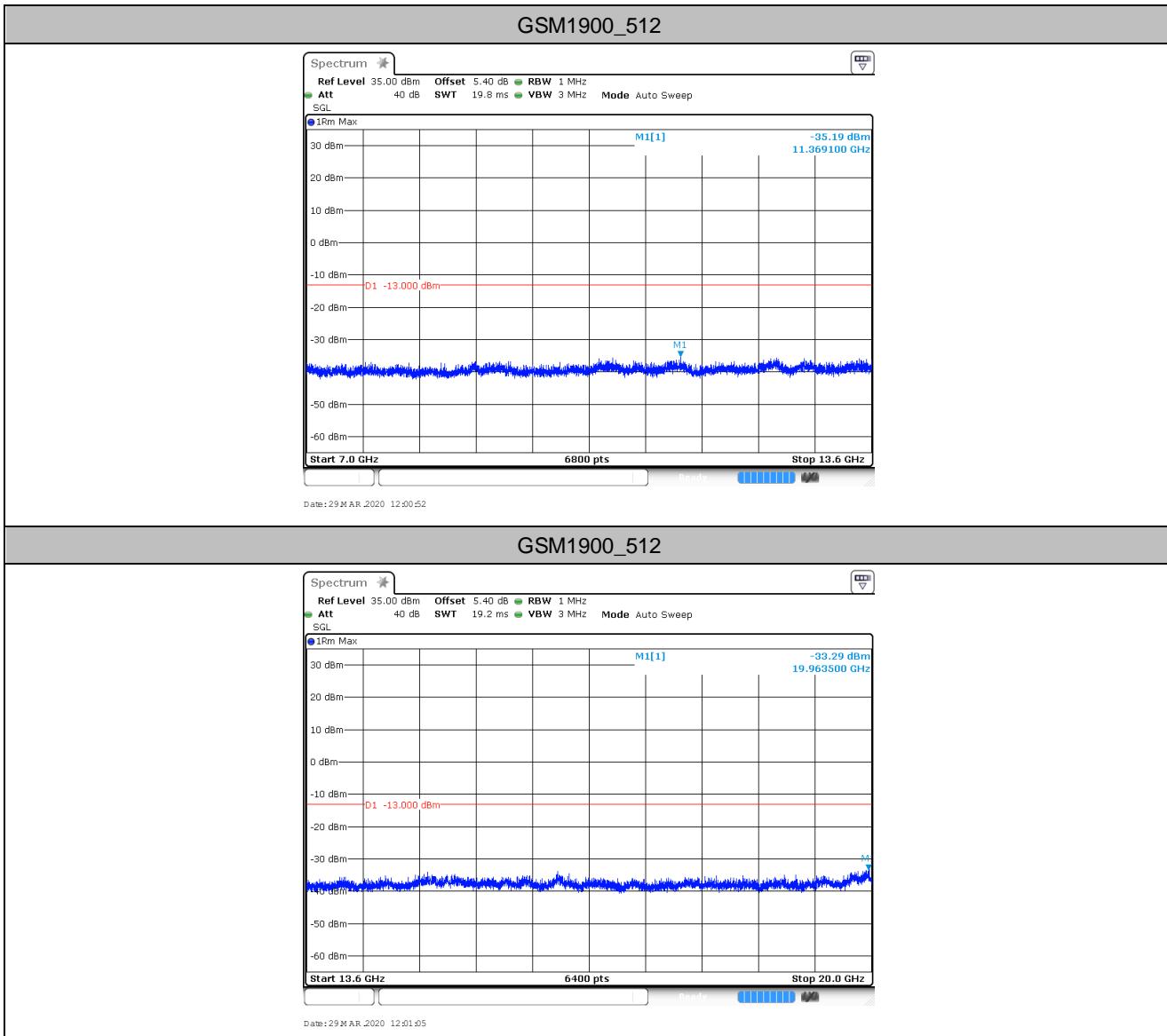


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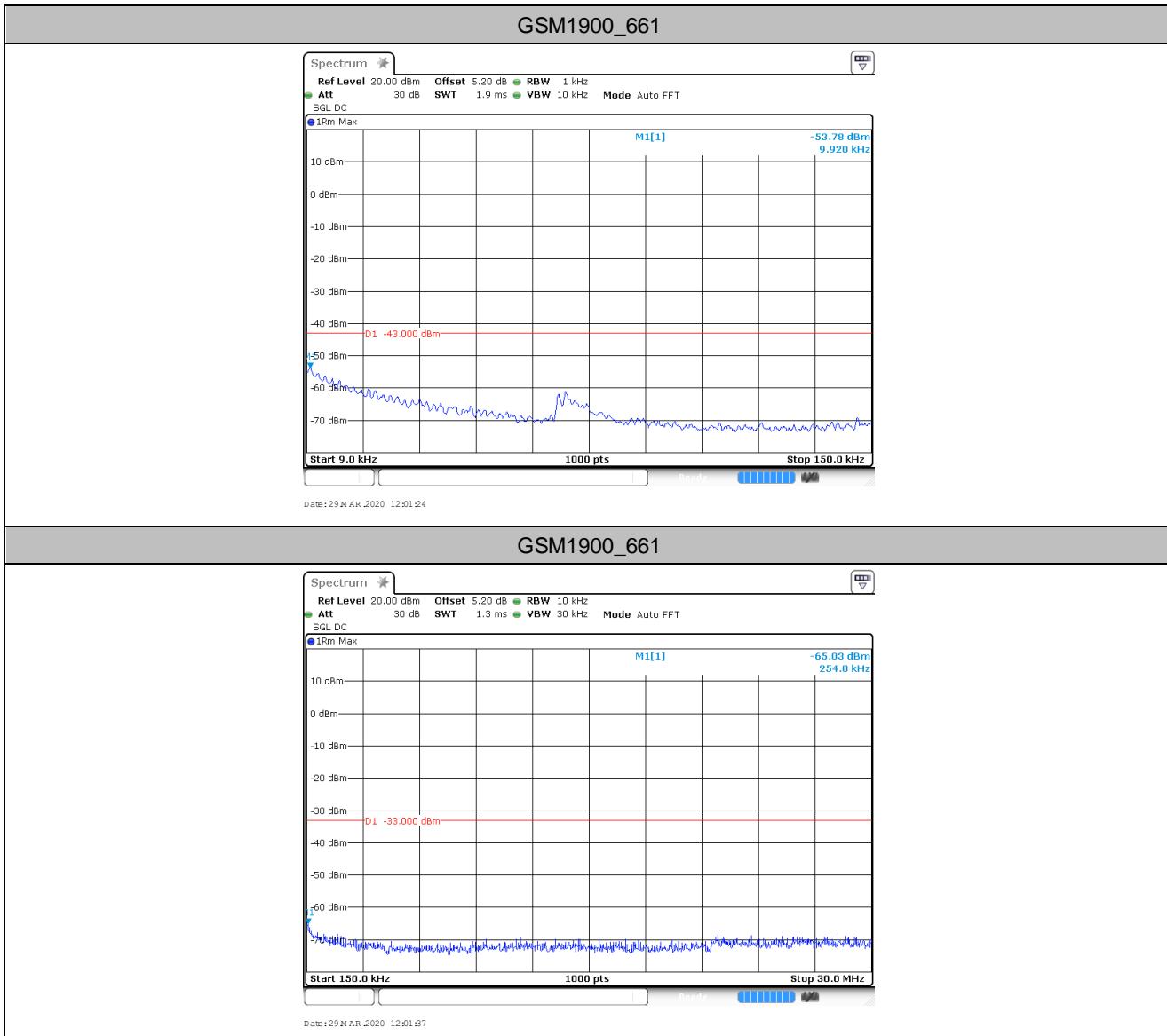
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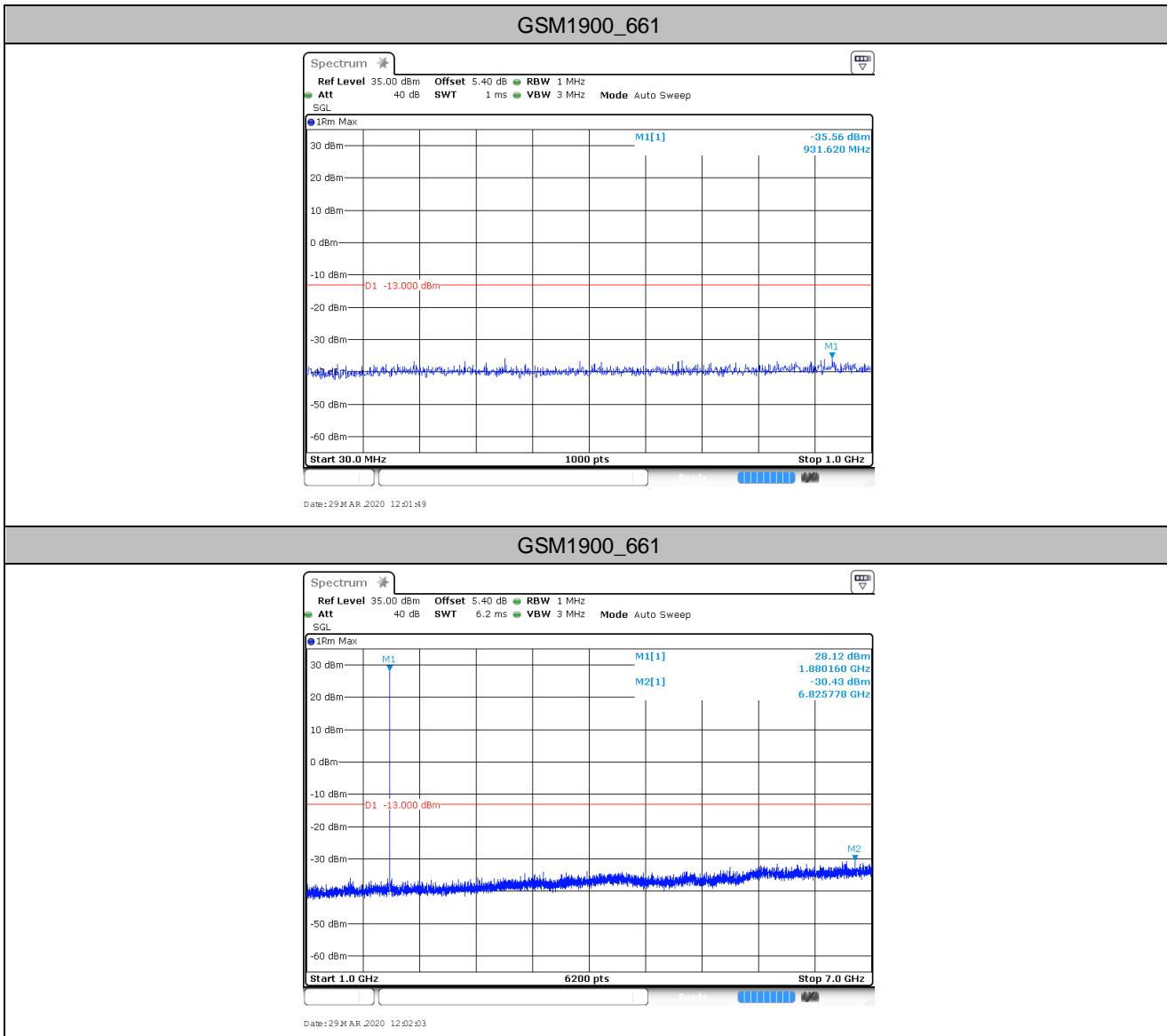


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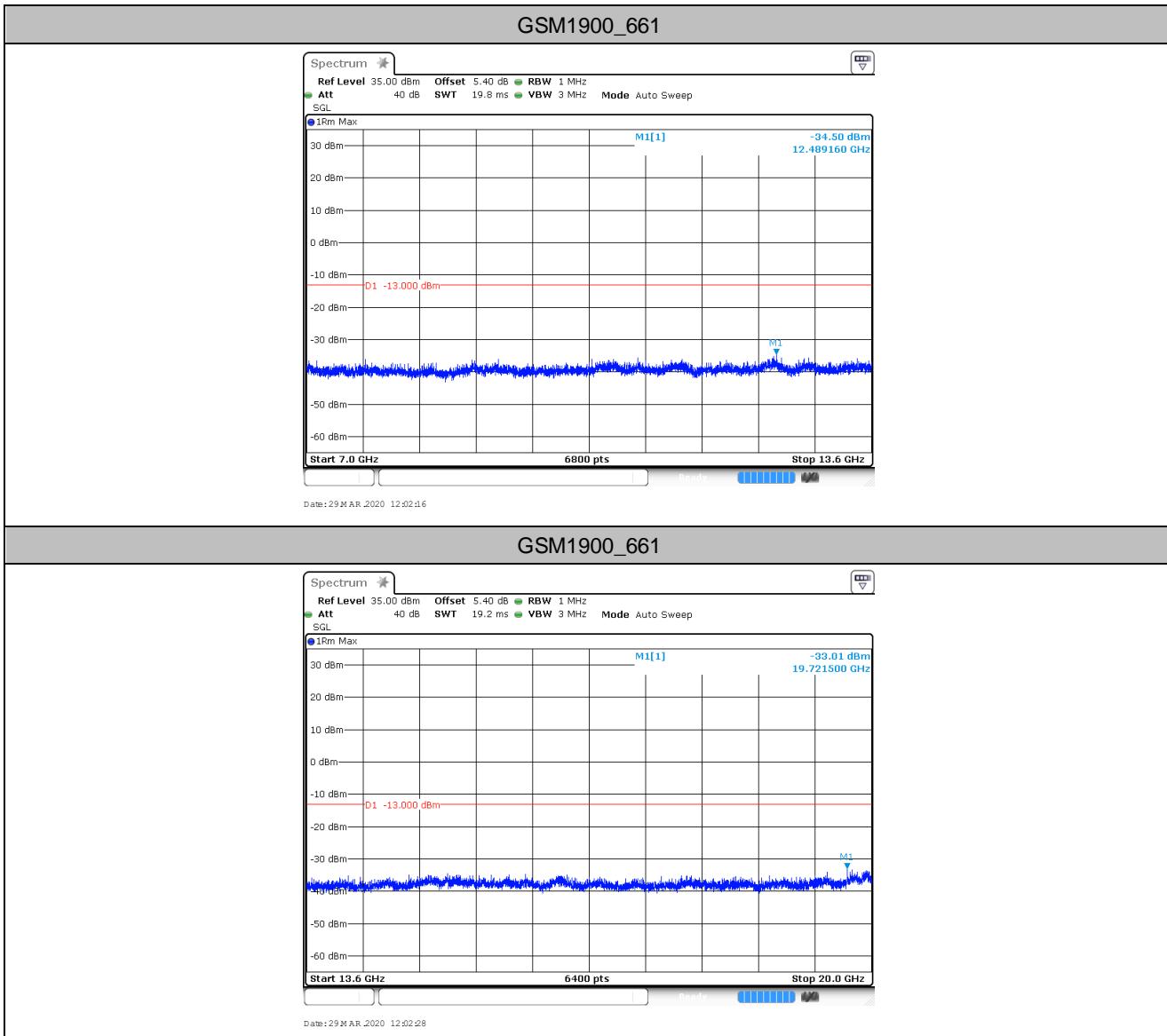
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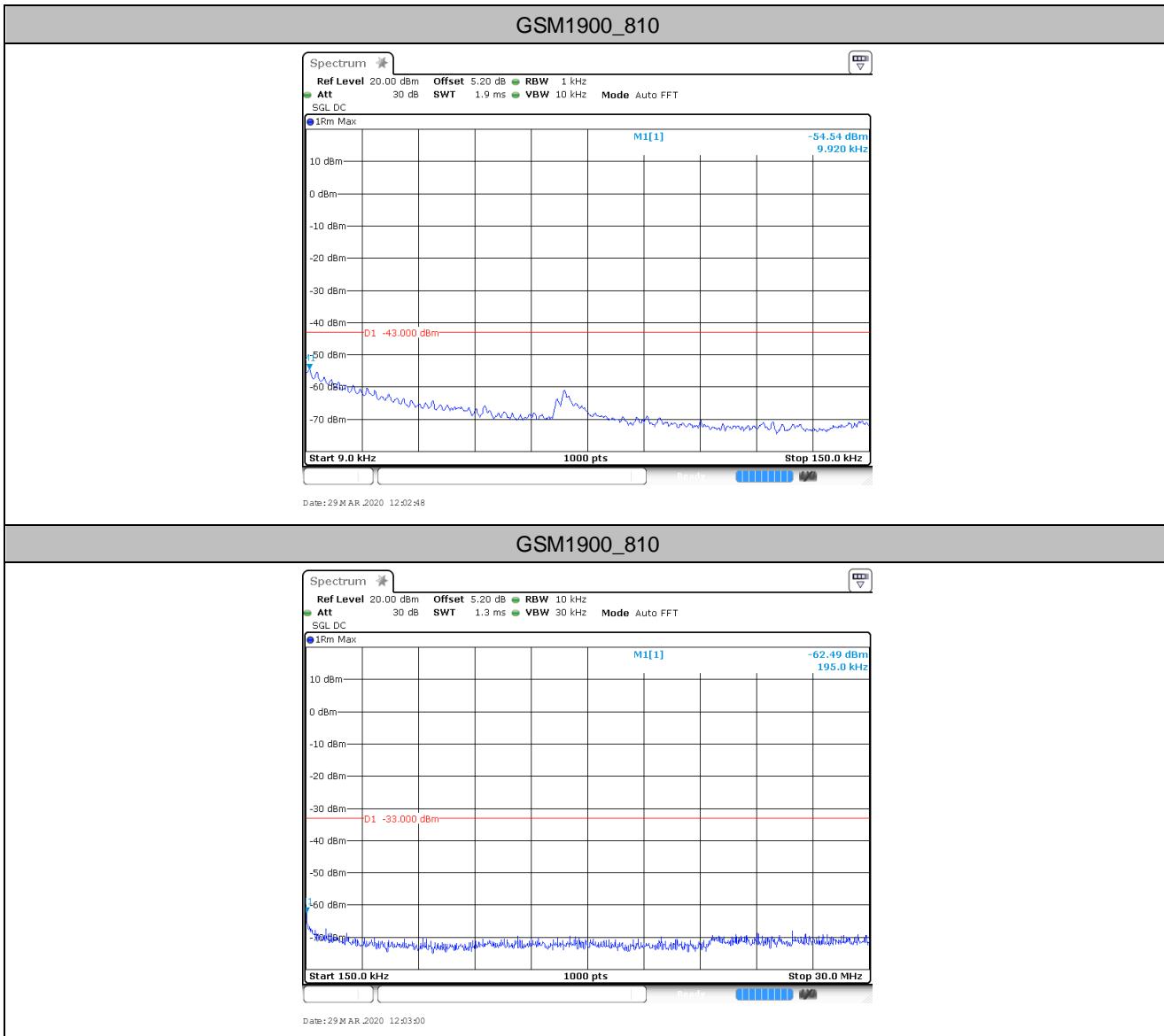
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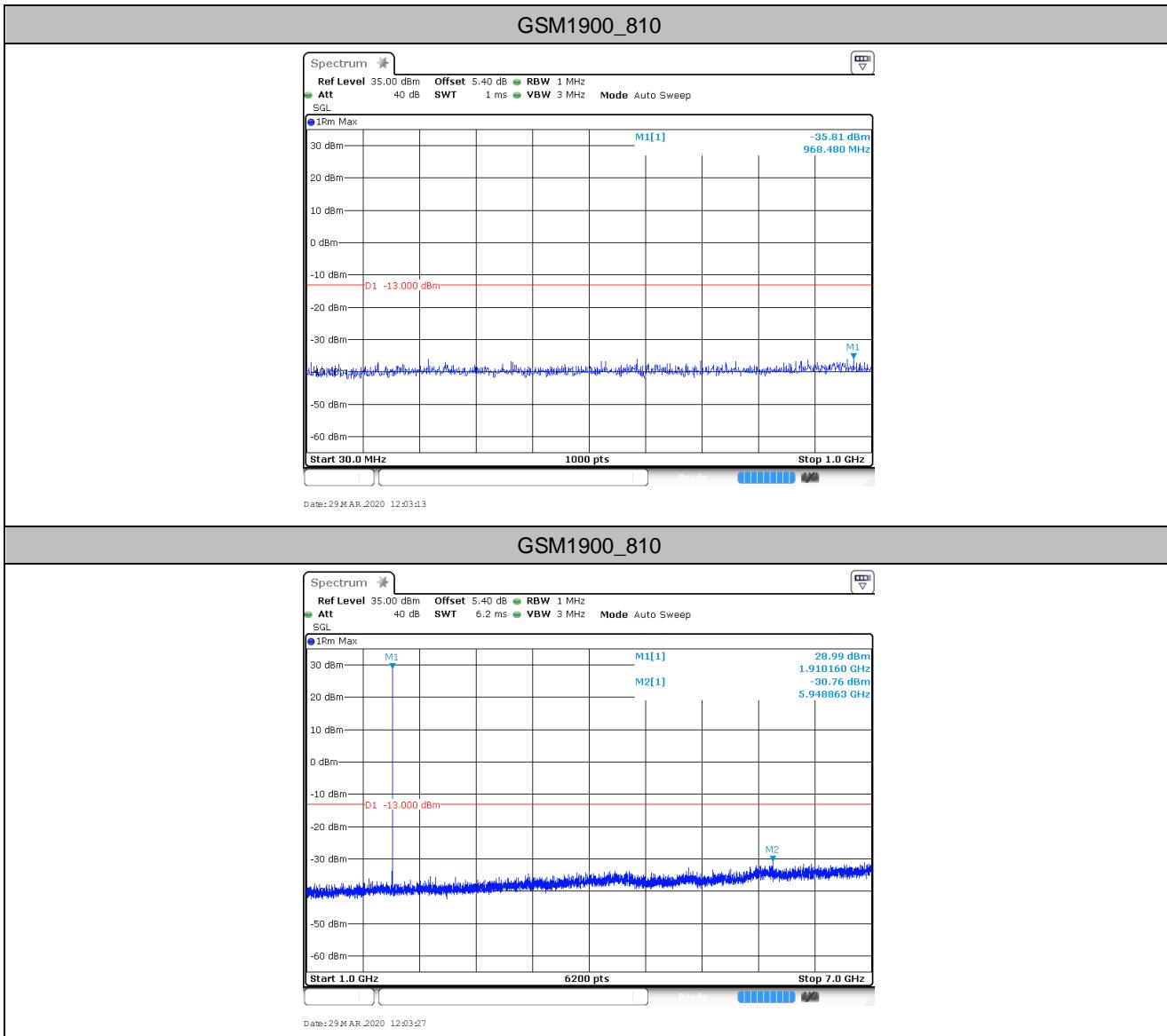
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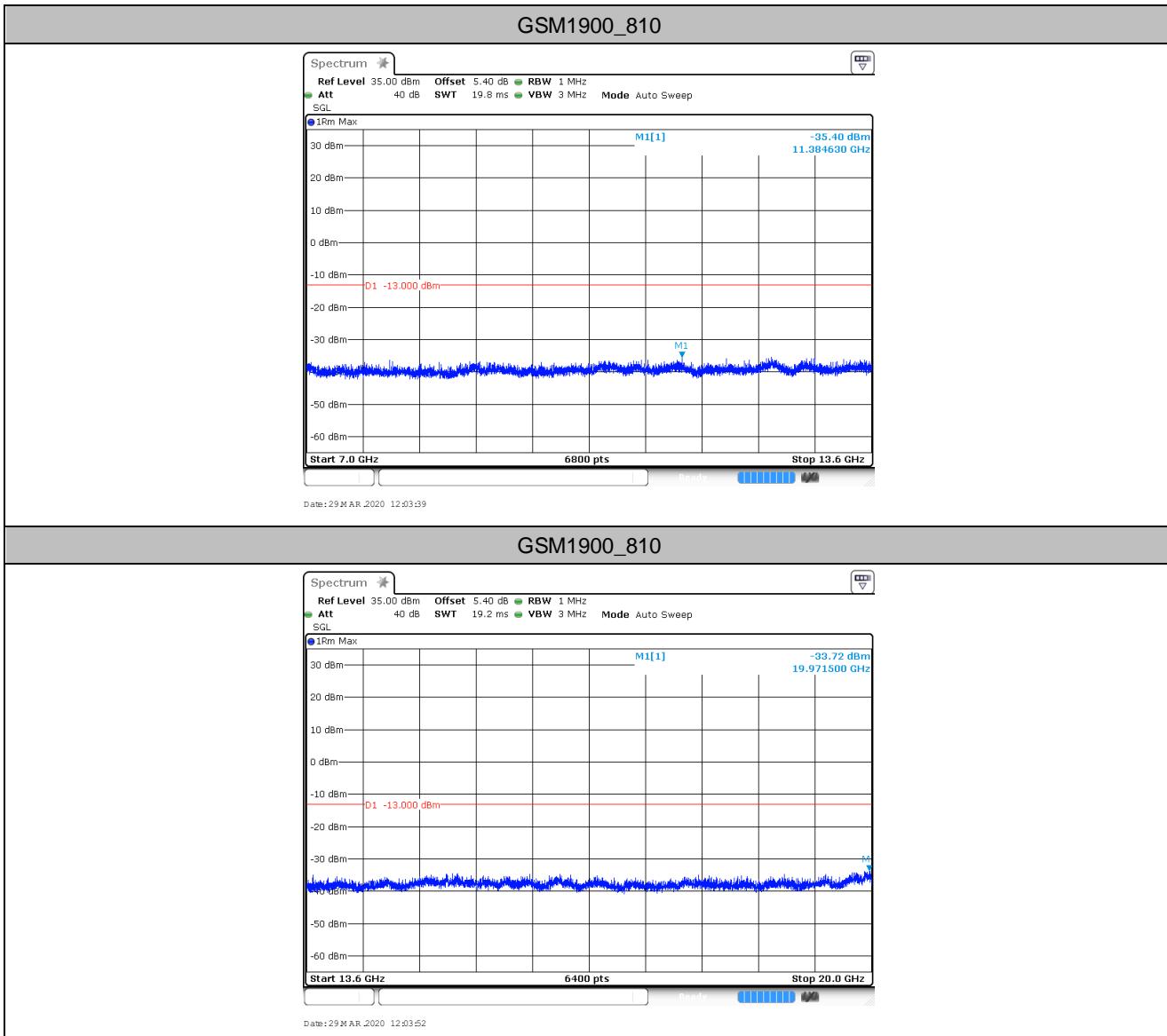


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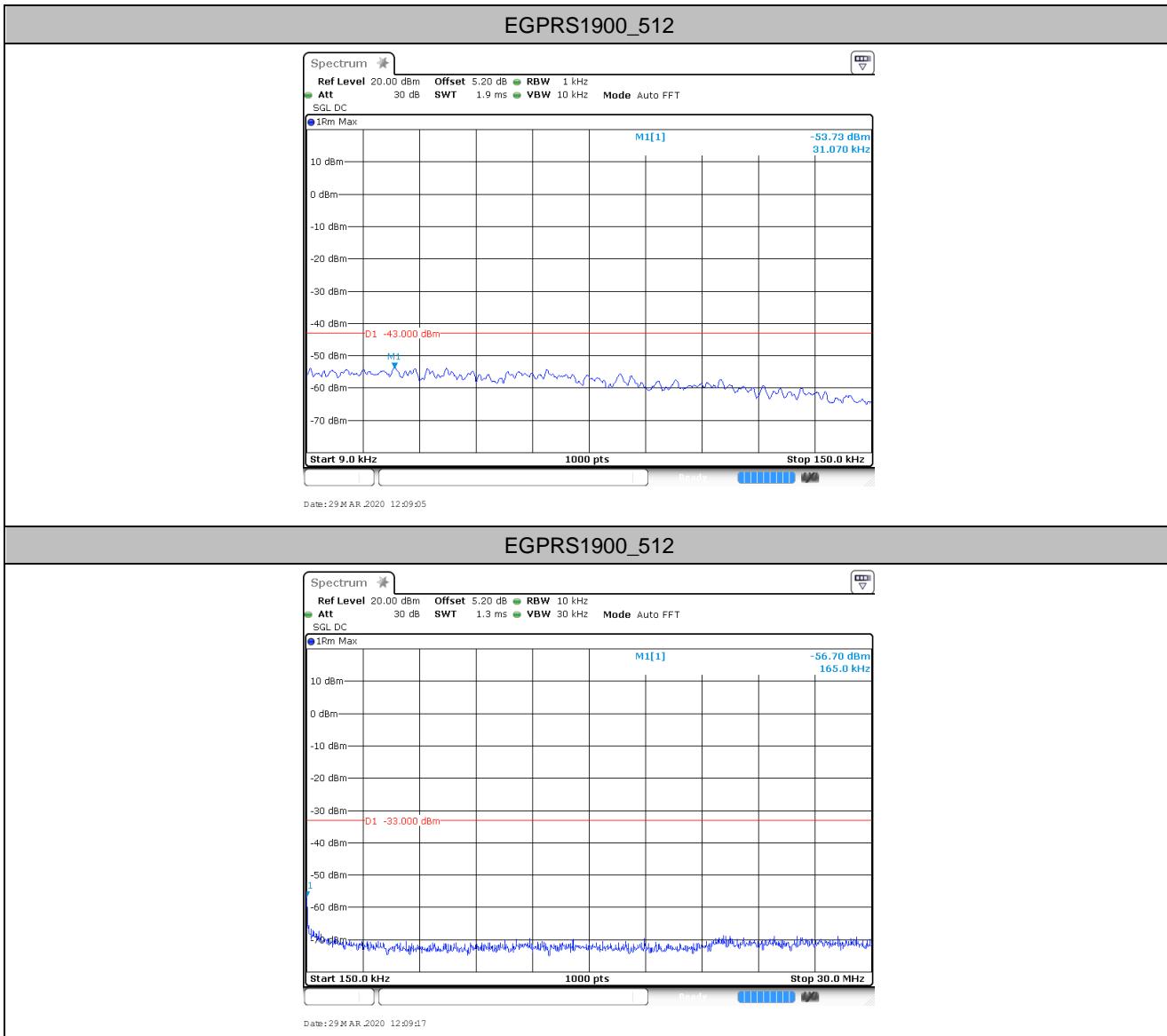
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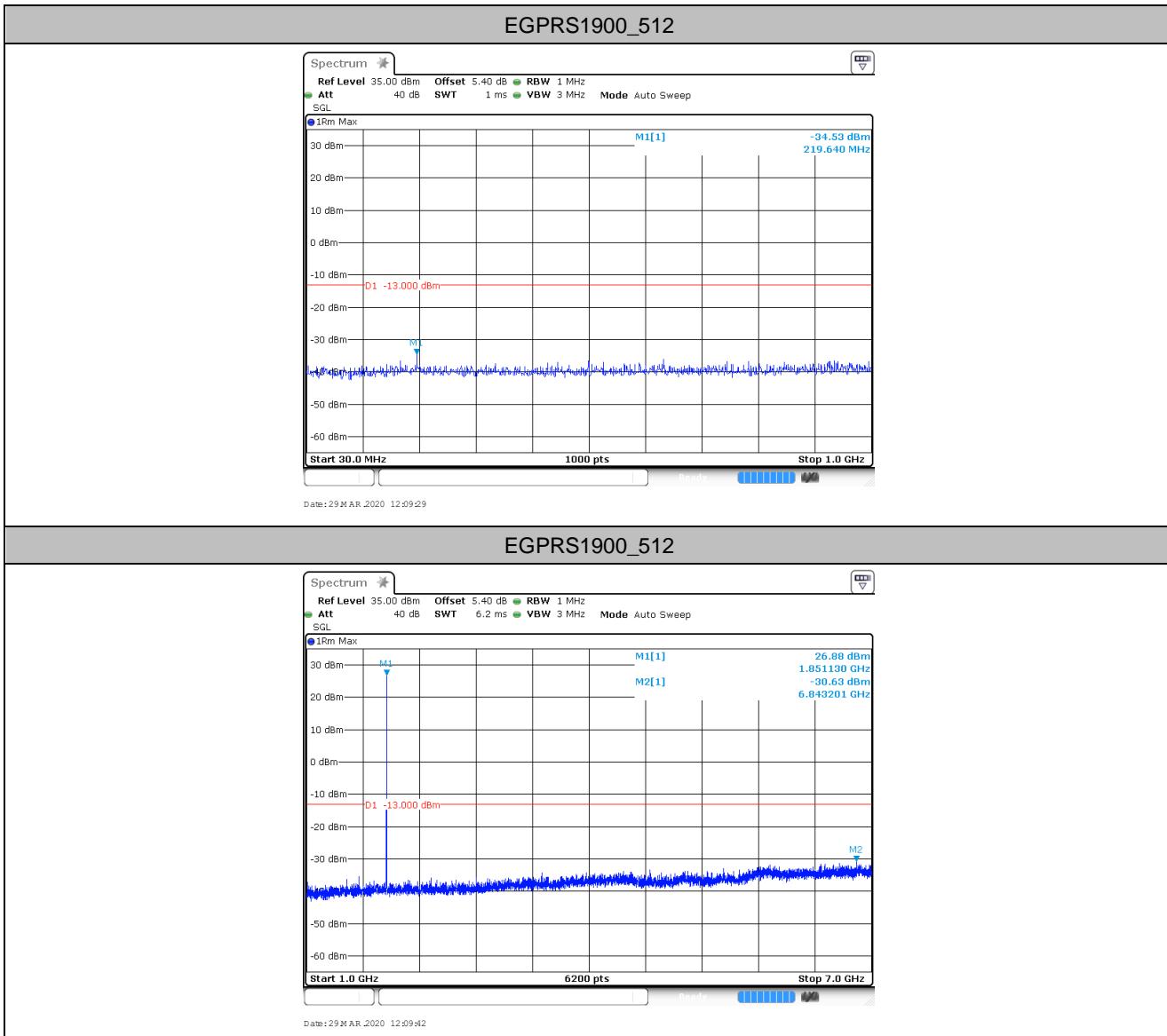


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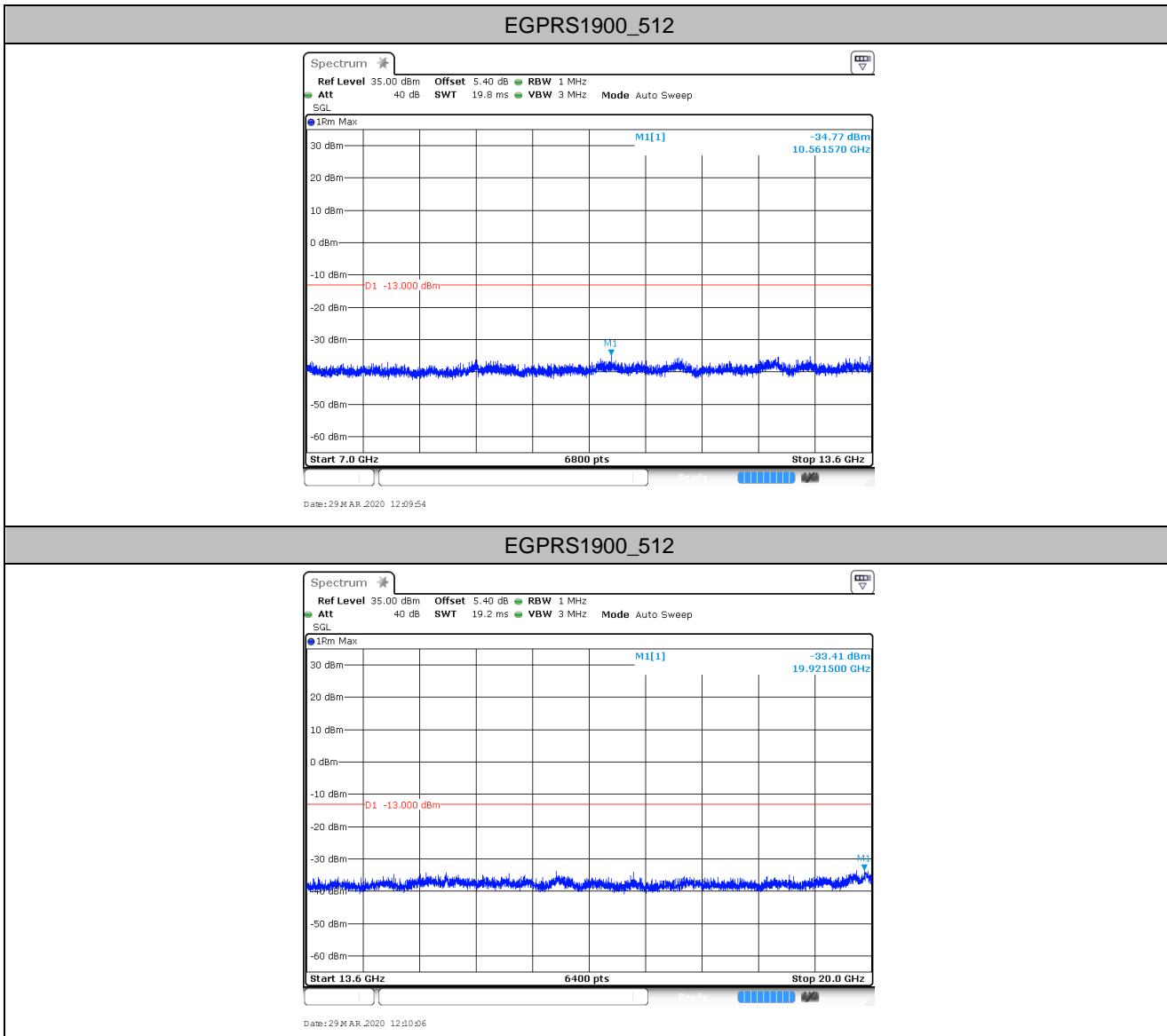
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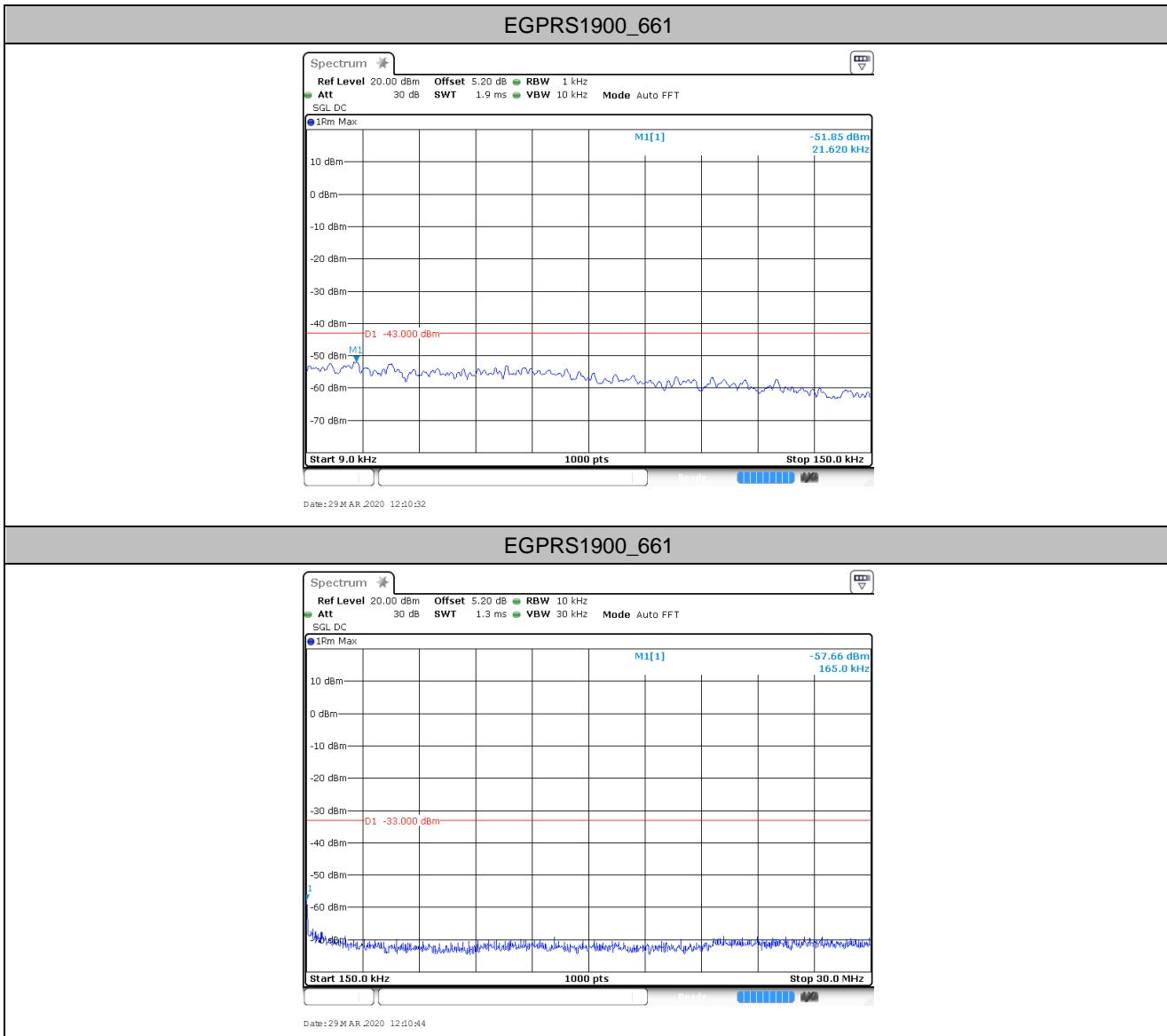


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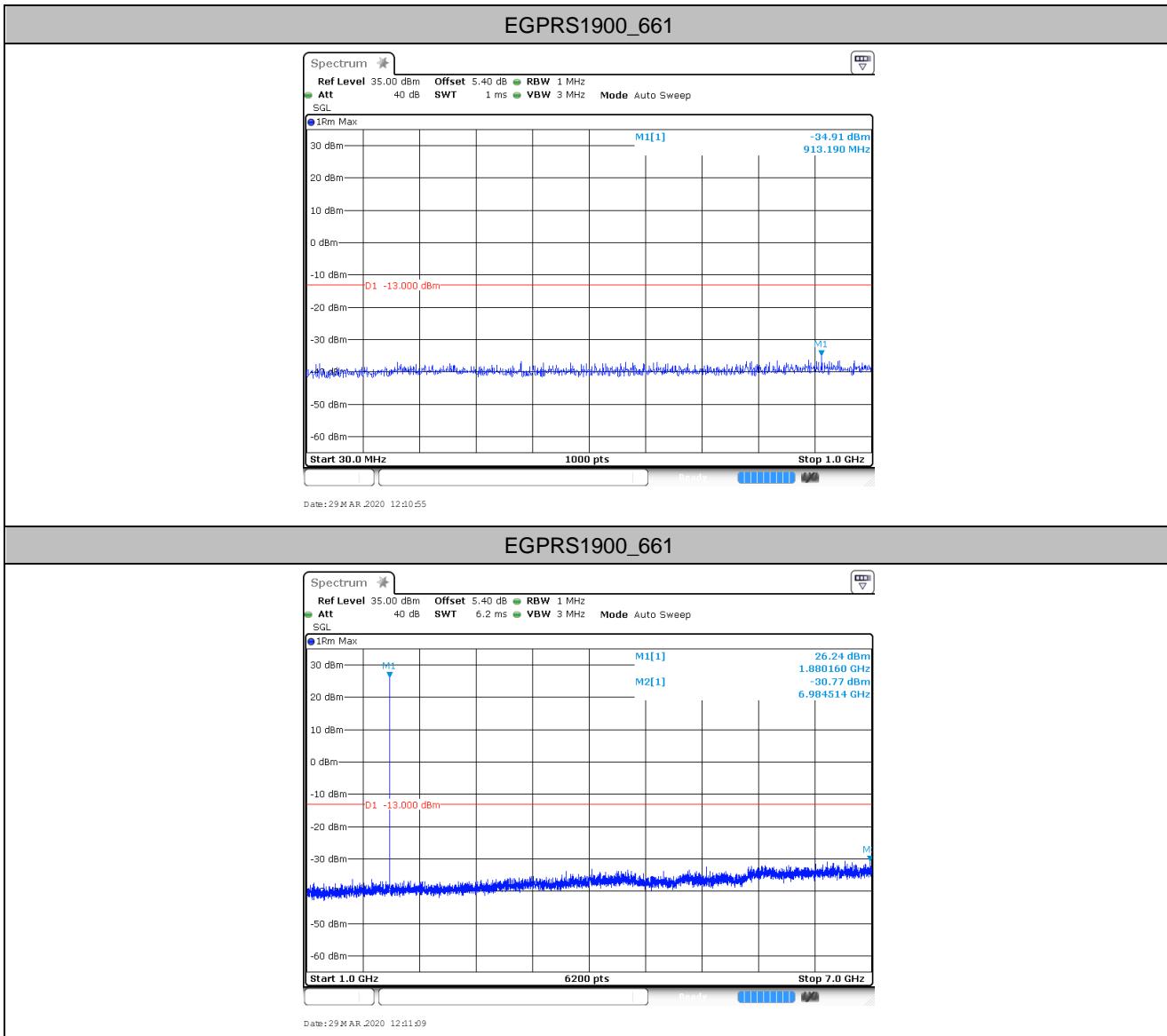


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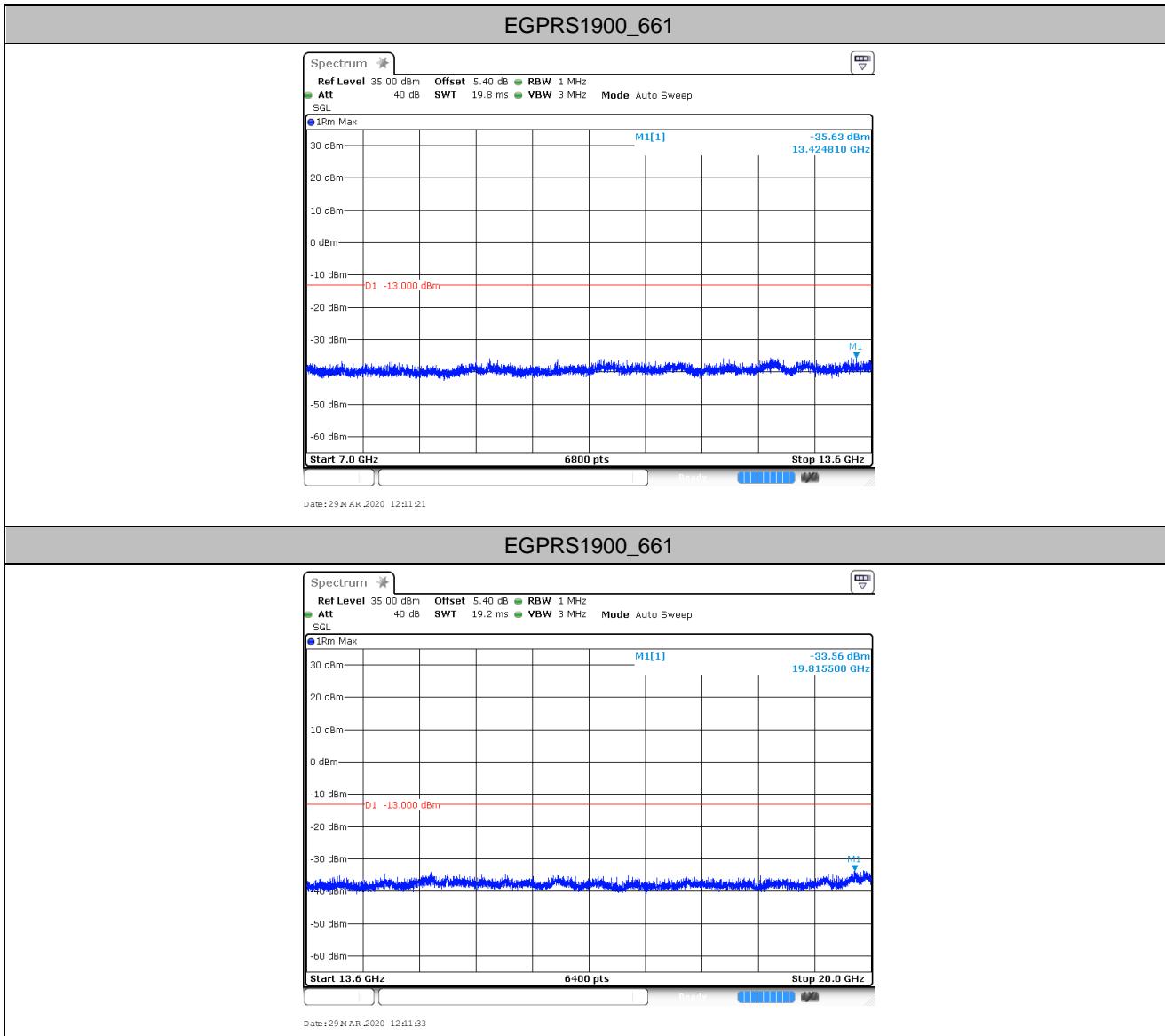


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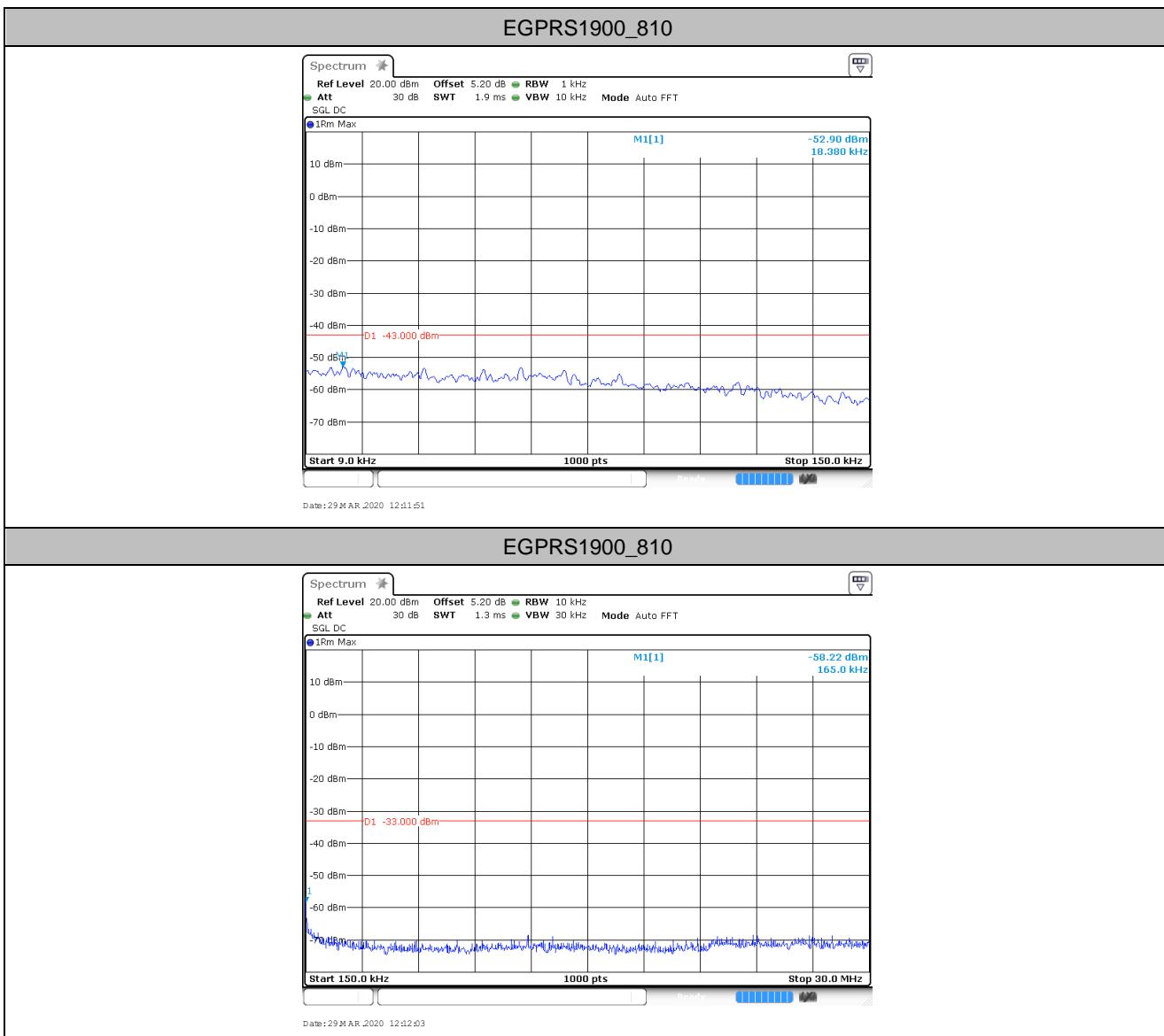
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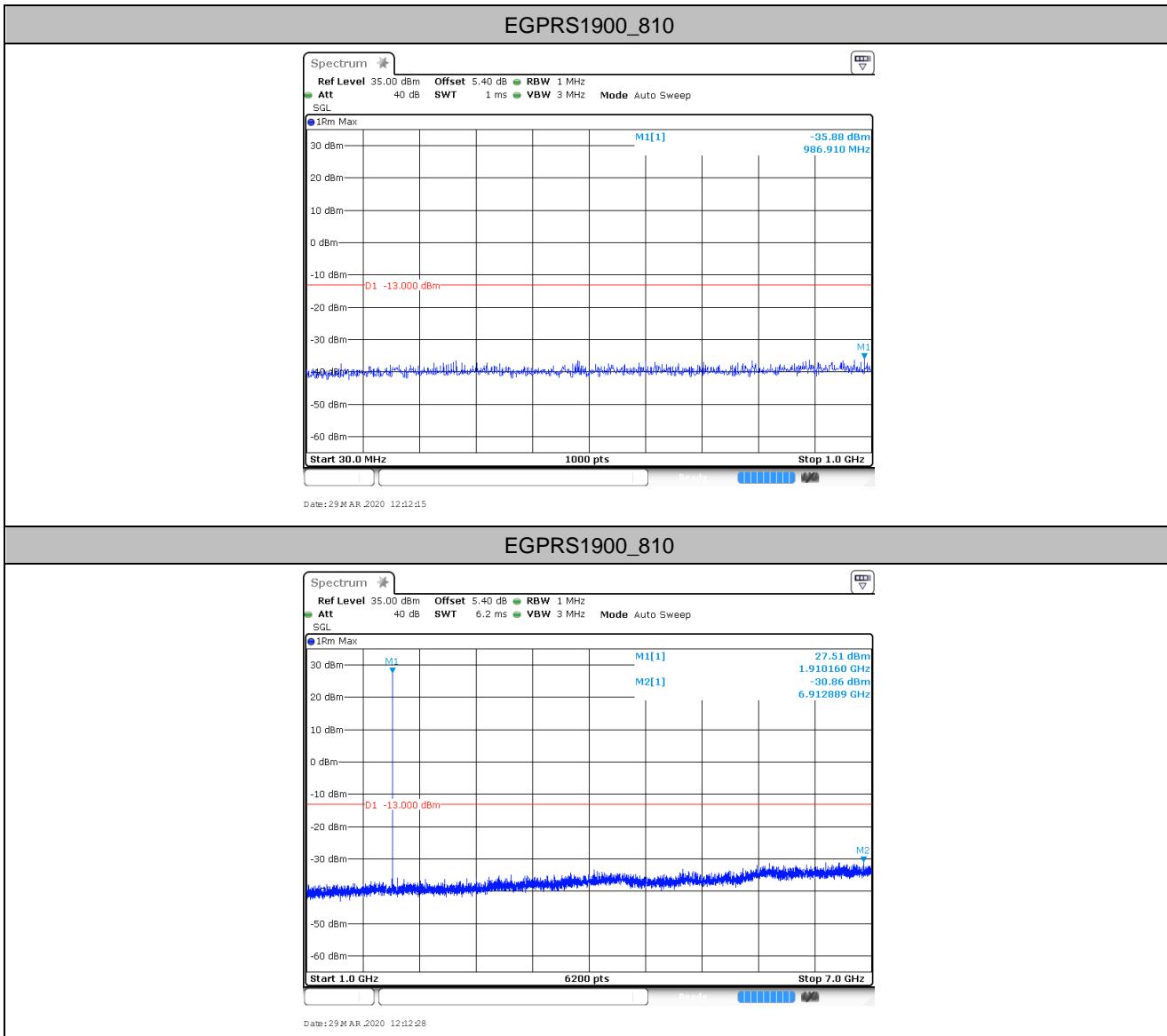


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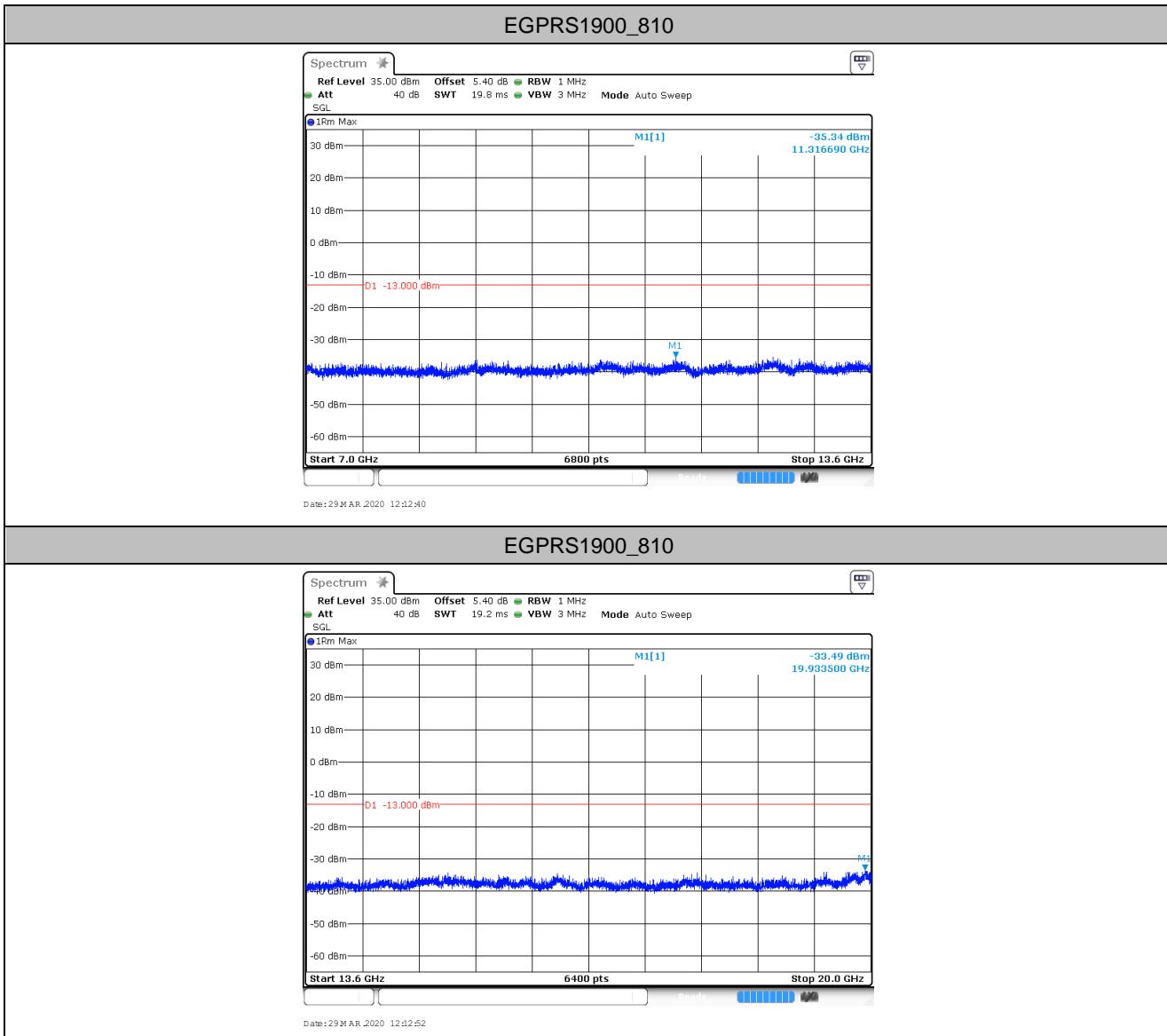
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## 7. Field Strength of Spurious Radiation

### 7.1. Test Band = GSM 1900

#### 7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
56.966000	-75.50	-13.00	62.50	Vertical
207.655500	-76.85	-13.00	63.85	Vertical
633.631000	-64.26	-13.00	51.26	Vertical
1648.500000	-44.86	-13.00	31.86	Vertical
2180.250000	-42.59	-13.00	29.59	Vertical
3296.450000	-48.81	-13.00	35.81	Vertical
57.984500	-71.40	-13.00	58.40	Horizontal
189.371000	-71.35	-13.00	58.35	Horizontal
671.897500	-68.44	-13.00	55.44	Horizontal
1648.125000	-43.57	-13.00	30.57	Horizontal
3296.450000	-52.88	-13.00	39.88	Horizontal
6353.000000	-54.53	-13.00	41.53	Horizontal

#### 7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
57.839000	-73.90	-13.00	60.90	Vertical
179.428500	-77.31	-13.00	64.31	Vertical
633.679500	-66.28	-13.00	53.28	Vertical
1672.950000	-44.09	-13.00	31.09	Vertical
3346.150000	-50.74	-13.00	37.74	Vertical
4182.650000	-51.24	-13.00	38.24	Vertical
57.693500	-72.54	-13.00	59.54	Horizontal
184.763500	-71.59	-13.00	58.59	Horizontal
691.055000	-72.18	-13.00	59.18	Horizontal
1673.100000	-47.64	-13.00	34.64	Horizontal
3346.500000	-54.84	-13.00	41.84	Horizontal
4931.650000	-54.82	-13.00	41.82	Horizontal

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**7.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
57.790500	-72.79	-13.00	59.79	Vertical
213.572500	-75.53	-13.00	62.53	Vertical
633.534000	-70.78	-13.00	57.78	Vertical
1697.475000	-48.80	-13.00	35.80	Vertical
2546.475000	-48.51	-13.00	35.51	Vertical
3395.150000	-55.08	-13.00	42.08	Vertical
58.421000	-71.34	-13.00	58.34	Horizontal
191.408000	-69.79	-13.00	56.79	Horizontal
633.485500	-73.90	-13.00	60.90	Horizontal
1697.625000	-49.85	-13.00	36.85	Horizontal
3395.500000	-55.29	-13.00	42.29	Horizontal
4243.900000	-53.70	-13.00	40.70	Horizontal

**7.2. Test Band = GSM 850**
**7.2.1. Test Channel = LCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
56.869000	-74.44	-13.00	61.44	Vertical
806.436500	-70.16	-13.00	57.16	Vertical
3700.350000	-50.24	-13.00	37.24	Vertical
5550.450000	-44.25	-13.00	31.25	Vertical
7400.900000	-45.62	-13.00	32.62	Vertical
9252.050000	-48.42	-13.00	35.42	Vertical
57.354000	-70.39	-13.00	57.39	Horizontal
190.098500	-70.10	-13.00	57.10	Horizontal
966.632000	-71.33	-13.00	58.33	Horizontal
3700.350000	-48.32	-13.00	35.32	Horizontal
5550.450000	-43.68	-13.00	30.68	Horizontal
10069.437500	-51.15	-13.00	38.15	Horizontal

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**7.2.2. Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
57.257000	-74.41	-13.00	61.41	Vertical
217.646500	-75.58	-13.00	62.58	Vertical
806.436500	-69.00	-13.00	56.00	Vertical
3759.850000	-38.48	-13.00	25.48	Vertical
5640.050000	-48.26	-13.00	35.26	Vertical
7520.250000	-47.09	-13.00	34.09	Vertical
56.917500	-71.95	-13.00	58.95	Horizontal
187.237000	-71.34	-13.00	58.34	Horizontal
3759.850000	-44.26	-13.00	31.26	Horizontal
5640.050000	-44.46	-13.00	31.46	Horizontal
7520.250000	-49.30	-13.00	36.30	Horizontal
10514.112500	-50.22	-13.00	37.22	Horizontal

**7.2.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
57.014500	-73.42	-13.00	60.42	Vertical
483.523500	-72.33	-13.00	59.33	Vertical
806.339500	-69.00	-13.00	56.00	Vertical
3819.700000	-43.95	-13.00	30.95	Vertical
5729.300000	-45.03	-13.00	32.03	Vertical
9549.200000	-48.35	-13.00	35.35	Vertical
56.869000	-71.22	-13.00	58.22	Horizontal
186.412500	-71.68	-13.00	58.68	Horizontal
668.260000	-71.24	-13.00	58.24	Horizontal
3820.050000	-49.91	-13.00	36.91	Horizontal
5728.950000	-42.13	-13.00	29.13	Horizontal
7639.250000	-50.67	-13.00	37.67	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	Voltage (Vdc)	Temperature (°C)	Voltage			Verdict
				Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
GSM850	128	VL	TN	0.13	0.000157	2.5	PASS
GSM850	128	VN	TN	7.94	0.009636	2.5	PASS
GSM850	128	VH	TN	-2.32	-0.002820	2.5	PASS
GSM850	190	VL	TN	5.07	0.006059	2.5	PASS
GSM850	190	VN	TN	-1.00	-0.001196	2.5	PASS
GSM850	190	VH	TN	2.71	0.003242	2.5	PASS
GSM850	251	VL	TN	2.58	0.003043	2.5	PASS
GSM850	251	VN	TN	0.65	0.000761	2.5	PASS
GSM850	251	VH	TN	6.26	0.007379	2.5	PASS
EGPRS850	128	VL	TN	21.28	0.025815	2.5	PASS
EGPRS850	128	VN	TN	20.11	0.024404	2.5	PASS
EGPRS850	128	VH	TN	14.30	0.017353	2.5	PASS
EGPRS850	190	VL	TN	19.92	0.023811	2.5	PASS
EGPRS850	190	VN	TN	17.66	0.021110	2.5	PASS
EGPRS850	190	VH	TN	18.05	0.021573	2.5	PASS
EGPRS850	251	VL	TN	13.98	0.016470	2.5	PASS
EGPRS850	251	VN	TN	20.34	0.023963	2.5	PASS
EGPRS850	251	VH	TN	20.34	0.023963	2.5	PASS
GSM1900	512	VL	TN	-2.52	-0.001361	2.5	PASS
GSM1900	512	VN	TN	-1.45	-0.000785	2.5	PASS
GSM1900	512	VH	TN	1.71	0.000925	2.5	PASS
GSM1900	661	VL	TN	7.91	0.004207	2.5	PASS
GSM1900	661	VN	TN	1.58	0.000841	2.5	PASS
GSM1900	661	VH	TN	-3.16	-0.001683	2.5	PASS
GSM1900	810	VL	TN	-9.78	-0.005122	2.5	PASS
GSM1900	810	VN	TN	-1.23	-0.000642	2.5	PASS
GSM1900	810	VH	TN	-6.52	-0.003415	2.5	PASS
EGPRS1900	512	VL	TN	22.66	0.012250	2.5	PASS
EGPRS1900	512	VN	TN	19.57	0.010575	2.5	PASS
EGPRS1900	512	VH	TN	16.01	0.008655	2.5	PASS
EGPRS1900	661	VL	TN	5.62	0.002988	2.5	PASS
EGPRS1900	661	VN	TN	8.78	0.004671	2.5	PASS
EGPRS1900	661	VH	TN	14.72	0.007831	2.5	PASS
EGPRS1900	810	VL	TN	26.83	0.014048	2.5	PASS
EGPRS1900	810	VN	TN	1.29	0.000676	2.5	PASS
EGPRS1900	810	VH	TN	1.84	0.000964	2.5	PASS

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## 8.2. Frequency Error Vs Temperature

Band	Channel	Voltage (Vdc)	Temperature				Verdict
			Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
GSM850	128	VN	-30	0.23	0.000274	2.5	PASS
GSM850	128	VN	-20	1.36	0.001645	2.5	PASS
GSM850	128	VN	-10	0.42	0.000509	2.5	PASS
GSM850	128	VN	0	5.13	0.006228	2.5	PASS
GSM850	128	VN	10	0.32	0.000392	2.5	PASS
GSM850	128	VN	20	4.49	0.005445	2.5	PASS
GSM850	128	VN	30	-1.42	-0.001724	2.5	PASS
GSM850	128	VN	40	-0.19	-0.000235	2.5	PASS
GSM850	128	VN	50	4.49	0.005445	2.5	PASS
GSM850	190	VN	-30	-2.29	-0.002740	2.5	PASS
GSM850	190	VN	-20	3.52	0.004207	2.5	PASS
GSM850	190	VN	-10	-2.91	-0.003473	2.5	PASS
GSM850	190	VN	0	3.42	0.004091	2.5	PASS
GSM850	190	VN	10	-0.68	-0.000810	2.5	PASS
GSM850	190	VN	20	6.01	0.007178	2.5	PASS
GSM850	190	VN	30	3.68	0.004399	2.5	PASS
GSM850	190	VN	40	1.90	0.002277	2.5	PASS
GSM850	190	VN	50	-0.87	-0.001042	2.5	PASS
GSM850	251	VN	-30	9.20	0.010841	2.5	PASS
GSM850	251	VN	-20	3.71	0.004374	2.5	PASS
GSM850	251	VN	-10	7.62	0.008977	2.5	PASS
GSM850	251	VN	0	4.81	0.005668	2.5	PASS
GSM850	251	VN	10	-0.13	-0.000152	2.5	PASS
GSM850	251	VN	20	5.84	0.006885	2.5	PASS
GSM850	251	VN	30	1.94	0.002282	2.5	PASS
GSM850	251	VN	40	6.49	0.007645	2.5	PASS
GSM850	251	VN	50	3.68	0.004336	2.5	PASS
EGPRS850	128	VN	-30	14.75	0.017902	2.5	PASS
EGPRS850	128	VN	-20	16.69	0.020252	2.5	PASS
EGPRS850	128	VN	-10	19.76	0.023973	2.5	PASS
EGPRS850	128	VN	0	21.34	0.025893	2.5	PASS
EGPRS850	128	VN	10	19.37	0.023503	2.5	PASS
EGPRS850	128	VN	20	14.72	0.017863	2.5	PASS
EGPRS850	128	VN	30	15.46	0.018764	2.5	PASS
EGPRS850	128	VN	40	14.63	0.017745	2.5	PASS
EGPRS850	128	VN	50	16.63	0.020174	2.5	PASS
EGPRS850	190	VN	-30	20.47	0.024467	2.5	PASS
EGPRS850	190	VN	-20	11.43	0.013661	2.5	PASS
EGPRS850	190	VN	-10	11.82	0.014125	2.5	PASS
EGPRS850	190	VN	0	11.40	0.013623	2.5	PASS
EGPRS850	190	VN	10	11.04	0.013198	2.5	PASS
EGPRS850	190	VN	20	10.88	0.013005	2.5	PASS

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EGPRS850	190	VN	30	11.07	0.013237	2.5	PASS
EGPRS850	190	VN	40	10.56	0.012619	2.5	PASS
EGPRS850	190	VN	50	11.66	0.013932	2.5	PASS
EGPRS850	251	VN	-30	14.69	0.017307	2.5	PASS
EGPRS850	251	VN	-20	22.15	0.026093	2.5	PASS
EGPRS850	251	VN	-10	22.66	0.026702	2.5	PASS
EGPRS850	251	VN	0	20.28	0.023887	2.5	PASS
EGPRS850	251	VN	10	20.66	0.024344	2.5	PASS
EGPRS850	251	VN	20	18.27	0.021529	2.5	PASS
EGPRS850	251	VN	30	16.37	0.019285	2.5	PASS
EGPRS850	251	VN	40	22.47	0.026474	2.5	PASS
EGPRS850	251	VN	50	21.44	0.025257	2.5	PASS
GSM1900	512	VN	-30	6.30	0.003403	2.5	PASS
GSM1900	512	VN	-20	-2.81	-0.001518	2.5	PASS
GSM1900	512	VN	-10	8.49	0.004589	2.5	PASS
GSM1900	512	VN	0	4.26	0.002303	2.5	PASS
GSM1900	512	VN	10	6.46	0.003490	2.5	PASS
GSM1900	512	VN	20	7.36	0.003979	2.5	PASS
GSM1900	512	VN	30	3.75	0.002024	2.5	PASS
GSM1900	512	VN	40	1.90	0.001030	2.5	PASS
GSM1900	512	VN	50	-1.10	-0.000593	2.5	PASS
GSM1900	661	VN	-30	14.14	0.007522	2.5	PASS
GSM1900	661	VN	-20	9.94	0.005289	2.5	PASS
GSM1900	661	VN	-10	8.75	0.004654	2.5	PASS
GSM1900	661	VN	0	2.84	0.001511	2.5	PASS
GSM1900	661	VN	10	-4.62	-0.002456	2.5	PASS
GSM1900	661	VN	20	12.91	0.006869	2.5	PASS
GSM1900	661	VN	30	9.81	0.005221	2.5	PASS
GSM1900	661	VN	40	4.10	0.002181	2.5	PASS
GSM1900	661	VN	50	1.58	0.000841	2.5	PASS
GSM1900	810	VN	-30	-12.72	-0.006661	2.5	PASS
GSM1900	810	VN	-20	0.61	0.000321	2.5	PASS
GSM1900	810	VN	-10	-15.08	-0.007895	2.5	PASS
GSM1900	810	VN	0	-2.07	-0.001082	2.5	PASS
GSM1900	810	VN	10	-6.23	-0.003263	2.5	PASS
GSM1900	810	VN	20	-10.07	-0.005274	2.5	PASS
GSM1900	810	VN	30	-13.14	-0.006880	2.5	PASS
GSM1900	810	VN	40	1.07	0.000558	2.5	PASS
GSM1900	810	VN	50	-0.81	-0.000423	2.5	PASS
EGPRS1900	512	VN	-30	-0.23	-0.000122	2.5	PASS
EGPRS1900	512	VN	-20	13.04	0.007050	2.5	PASS
EGPRS1900	512	VN	-10	7.10	0.003839	2.5	PASS
EGPRS1900	512	VN	0	6.36	0.003438	2.5	PASS
EGPRS1900	512	VN	10	6.97	0.003769	2.5	PASS
EGPRS1900	512	VN	20	6.42	0.003473	2.5	PASS
EGPRS1900	512	VN	30	21.53	0.011639	2.5	PASS
EGPRS1900	512	VN	40	21.57	0.011657	2.5	PASS

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EGPRS1900	512	VN	50	20.70	0.011185	2.5	PASS
EGPRS1900	661	VN	-30	16.30	0.008673	2.5	PASS
EGPRS1900	661	VN	-20	24.67	0.013120	2.5	PASS
EGPRS1900	661	VN	-10	22.83	0.012142	2.5	PASS
EGPRS1900	661	VN	0	23.67	0.012588	2.5	PASS
EGPRS1900	661	VN	10	26.12	0.013893	2.5	PASS
EGPRS1900	661	VN	20	9.17	0.004877	2.5	PASS
EGPRS1900	661	VN	30	16.11	0.008569	2.5	PASS
EGPRS1900	661	VN	40	17.43	0.009274	2.5	PASS
EGPRS1900	661	VN	50	21.11	0.011231	2.5	PASS
EGPRS1900	810	VN	-30	7.10	0.003719	2.5	PASS
EGPRS1900	810	VN	-20	6.23	0.003263	2.5	PASS
EGPRS1900	810	VN	-10	3.68	0.001927	2.5	PASS
EGPRS1900	810	VN	0	4.42	0.002316	2.5	PASS
EGPRS1900	810	VN	10	5.75	0.003009	2.5	PASS
EGPRS1900	810	VN	20	4.94	0.002587	2.5	PASS
EGPRS1900	810	VN	30	4.39	0.002299	2.5	PASS
EGPRS1900	810	VN	40	6.20	0.003246	2.5	PASS
EGPRS1900	810	VN	50	7.78	0.004074	2.5	PASS

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The End

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