



Appendix B

GSM 850 & 1900



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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	---	32.85	26.62	38.45	PASS
GSM850	190	---	32.94	26.71	38.45	PASS
GSM850	251	---	32.91	26.68	38.45	PASS
EGPRS850	128	1	26.93	20.7	38.45	PASS
EGPRS850	128	2	23.67	17.44	38.45	PASS
EGPRS850	128	3	21.73	15.5	38.45	PASS
EGPRS850	128	4	20.64	14.41	38.45	PASS
EGPRS850	190	1	26.88	20.65	38.45	PASS
EGPRS850	190	2	23.64	17.41	38.45	PASS
EGPRS850	190	3	21.74	15.51	38.45	PASS
EGPRS850	190	4	20.51	14.28	38.45	PASS
EGPRS850	251	1	27.05	20.82	38.45	PASS
EGPRS850	251	2	23.66	17.43	38.45	PASS
EGPRS850	251	3	21.79	15.56	38.45	PASS
EGPRS850	251	4	20.53	14.3	38.45	PASS

ANT3:

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	29.92	28.19	33.00	PASS
GSM1900	661	---	29.93	28.2	33.00	PASS
GSM1900	810	---	29.82	28.09	33.00	PASS
EGPRS1900	512	1	25.06	23.33	33.00	PASS
EGPRS1900	512	2	21.98	20.25	33.00	PASS
EGPRS1900	512	3	20.12	18.39	33.00	PASS
EGPRS1900	512	4	18.95	17.22	33.00	PASS
EGPRS1900	661	1	24.98	23.25	33.00	PASS
EGPRS1900	661	2	22.01	20.28	33.00	PASS
EGPRS1900	661	3	20.14	18.41	33.00	PASS
EGPRS1900	661	4	18.99	17.26	33.00	PASS
EGPRS1900	810	1	24.87	23.14	33.00	PASS
EGPRS1900	810	2	22.04	20.31	33.00	PASS
EGPRS1900	810	3	20.05	18.32	33.00	PASS
EGPRS1900	810	4	18.96	17.23	33.00	PASS



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ANT2:

Band	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	32.19	23.74	38.45	PASS
GSM850	190	---	32.36	23.91	38.45	PASS
GSM850	251	---	32.30	23.85	38.45	PASS
EGPRS850	128	1	26.16	17.71	38.45	PASS
EGPRS850	128	2	22.89	14.44	38.45	PASS
EGPRS850	128	3	20.97	12.52	38.45	PASS
EGPRS850	128	4	19.69	11.24	38.45	PASS
EGPRS850	190	1	26.04	17.59	38.45	PASS
EGPRS850	190	2	22.82	14.37	38.45	PASS
EGPRS850	190	3	20.86	12.41	38.45	PASS
EGPRS850	190	4	19.54	11.09	38.45	PASS
EGPRS850	251	1	26.28	17.83	38.45	PASS
EGPRS850	251	2	23.04	14.59	38.45	PASS
EGPRS850	251	3	20.93	12.48	38.45	PASS
EGPRS850	251	4	19.58	11.13	38.45	PASS

ANT5:

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	29.59	27.69	33.00	PASS
GSM1900	661	---	29.57	27.67	33.00	PASS
GSM1900	810	---	29.39	27.49	33.00	PASS
EGPRS1900	512	1	24.08	22.18	33.00	PASS
EGPRS1900	512	2	21.05	19.15	33.00	PASS
EGPRS1900	512	3	19.37	17.47	33.00	PASS
EGPRS1900	512	4	18.12	16.22	33.00	PASS
EGPRS1900	661	1	24.07	22.17	33.00	PASS
EGPRS1900	661	2	21.04	19.14	33.00	PASS
EGPRS1900	661	3	19.36	17.46	33.00	PASS
EGPRS1900	661	4	18.14	16.24	33.00	PASS
EGPRS1900	810	1	24.11	22.21	33.00	PASS
EGPRS1900	810	2	21.11	19.21	33.00	PASS
EGPRS1900	810	3	19.35	17.45	33.00	PASS
EGPRS1900	810	4	18.24	16.34	33.00	PASS

Remark:

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

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

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



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2. Peak-to-Average Ratio

2.1. Test Result

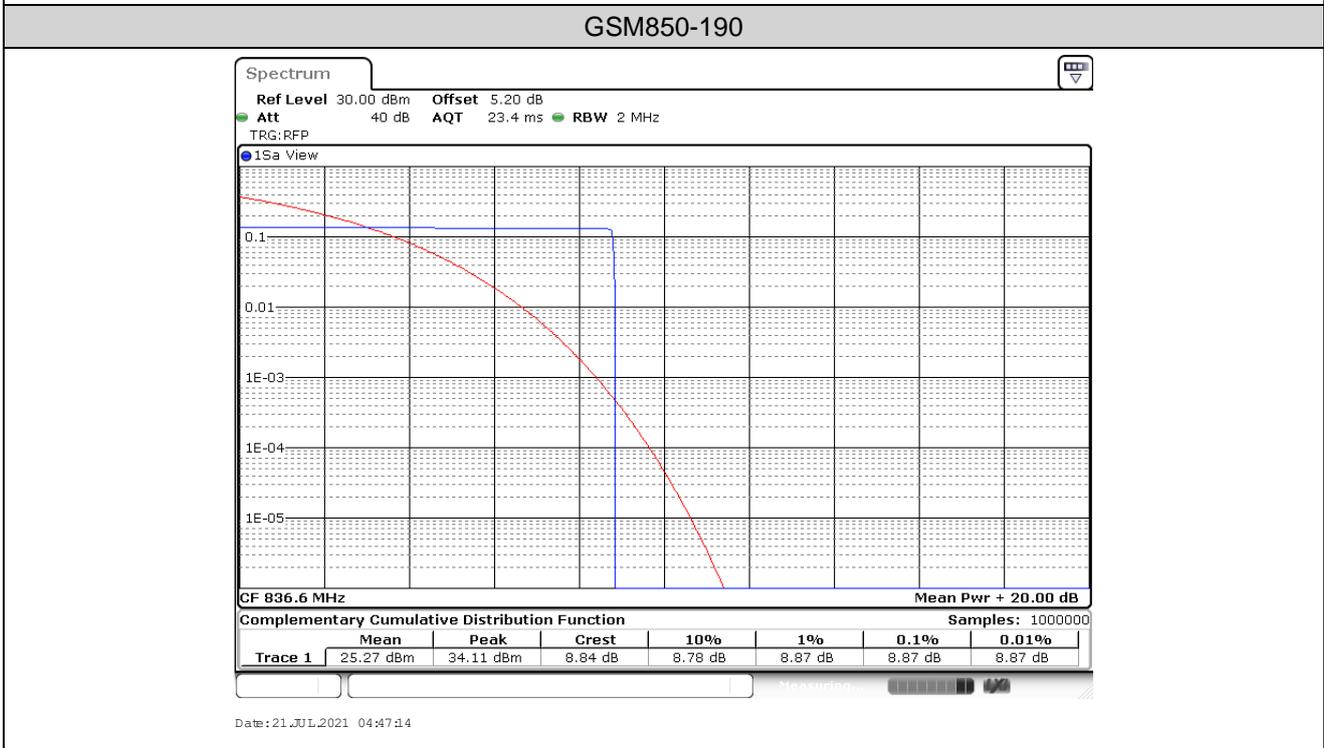
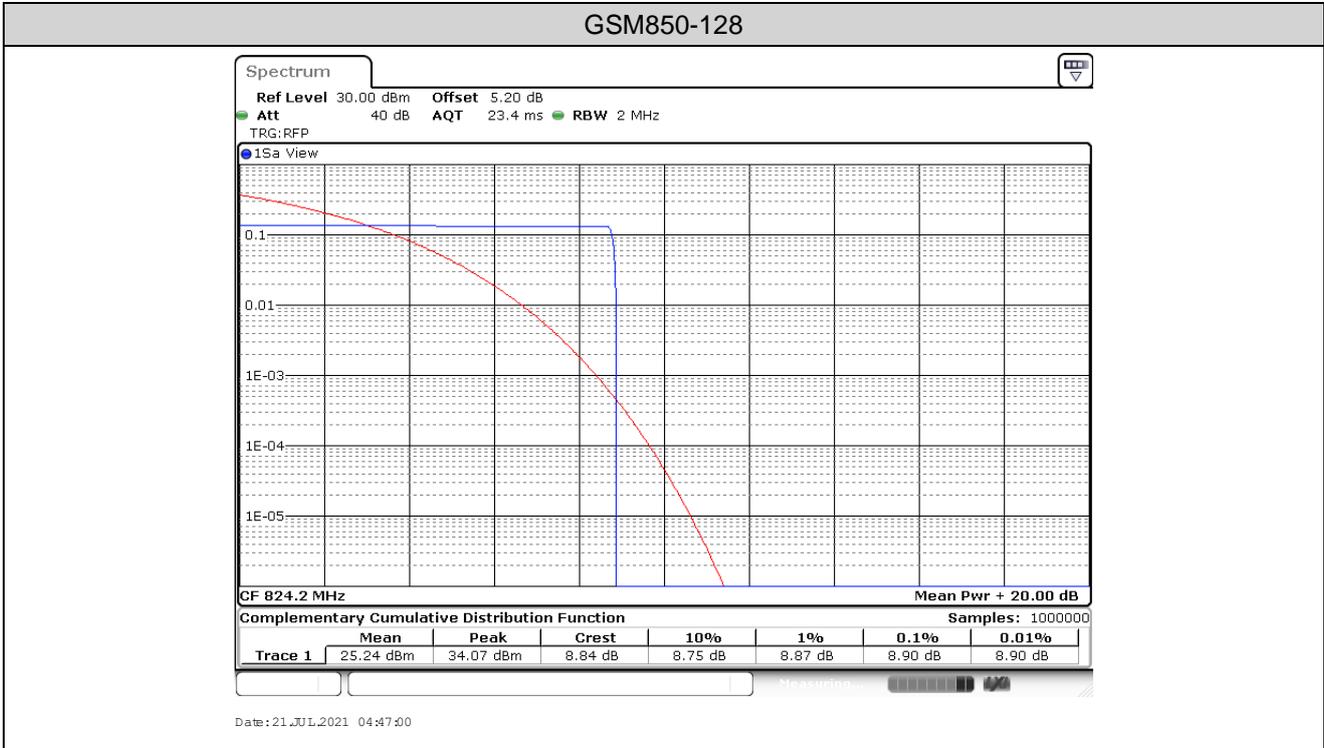
Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	8.9	13	PASS
GSM850	190	8.87	13	PASS
GSM850	251	8.93	13	PASS
EGPRS850	128	12.7	13	PASS
EGPRS850	190	12.96	13	PASS
EGPRS850	251	12.06	13	PASS
GSM1900	512	8.87	13	PASS
GSM1900	661	8.87	13	PASS
GSM1900	810	8.87	13	PASS
EGPRS1900	512	12.17	13	PASS
EGPRS1900	661	12.2	13	PASS
EGPRS1900	810	12.2	13	PASS



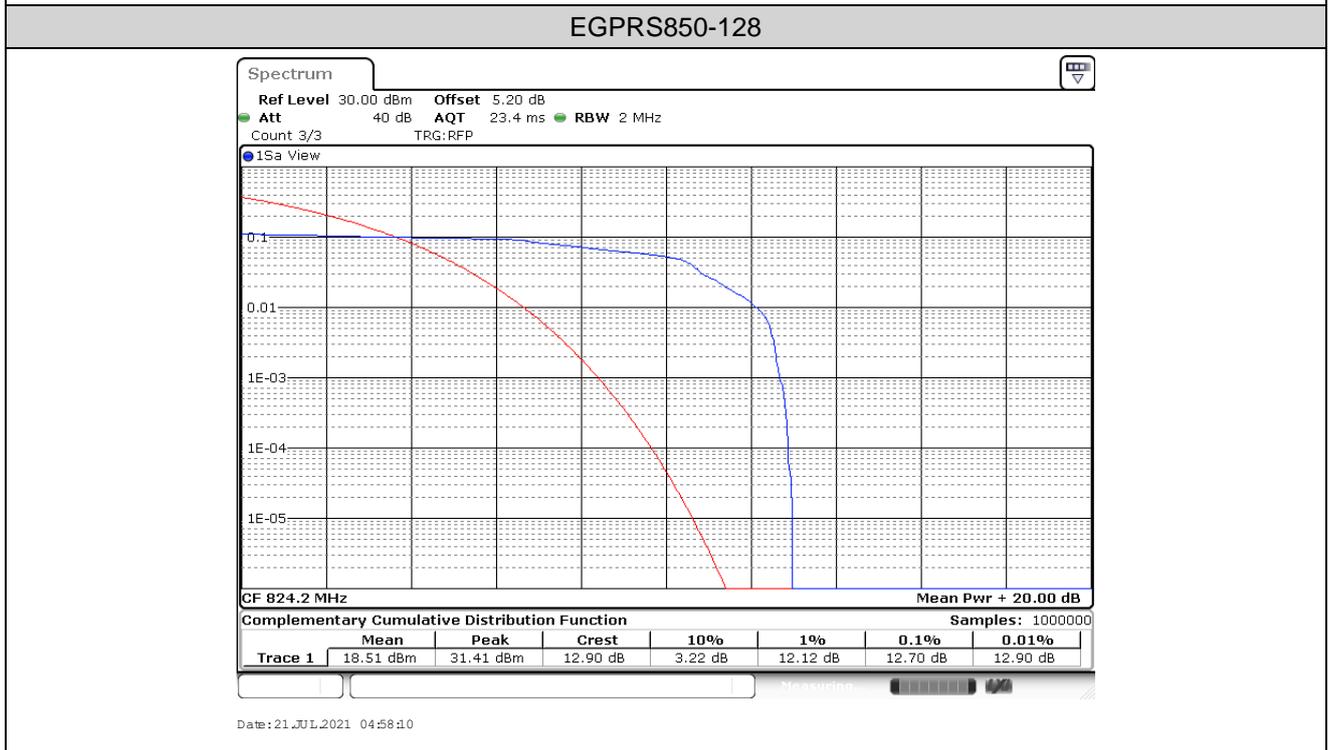
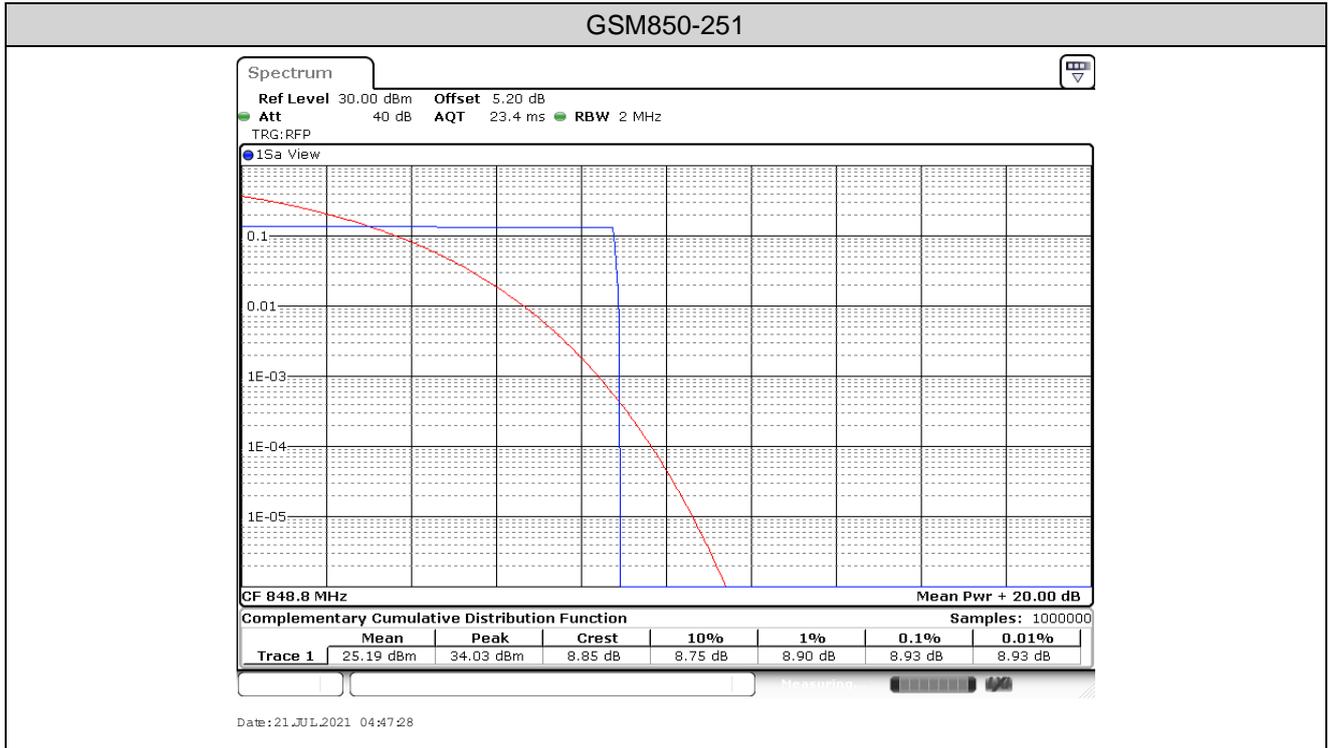
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2.2.Part II - Test Plots



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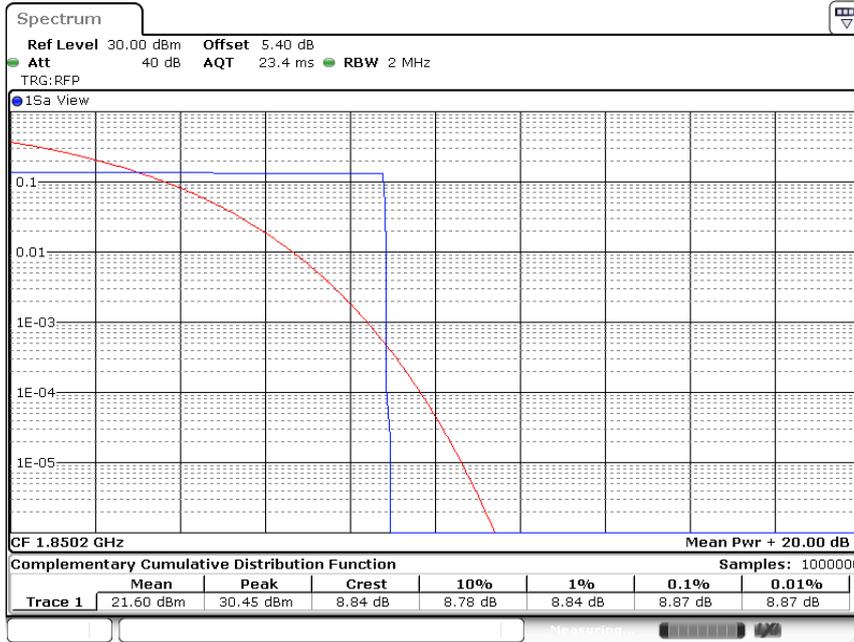


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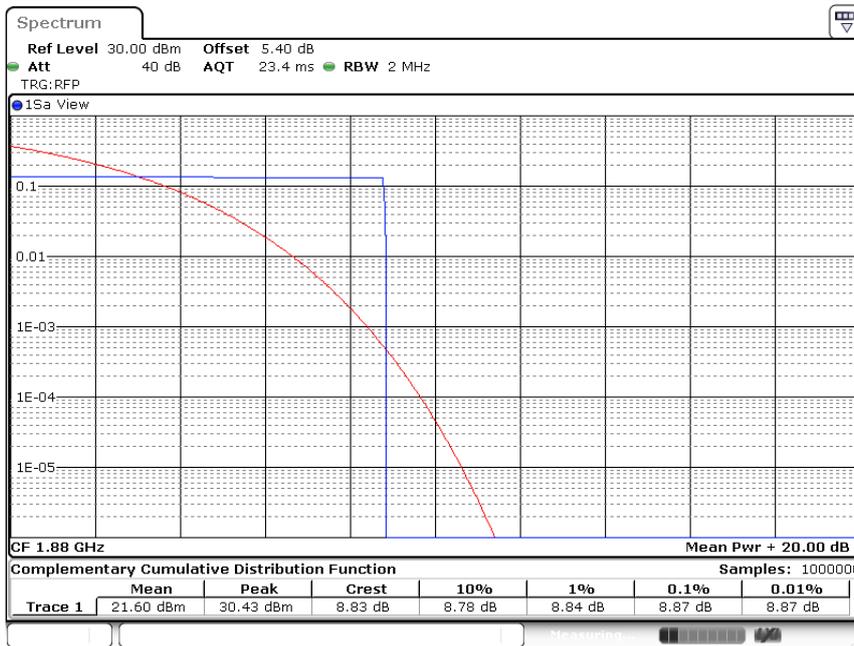
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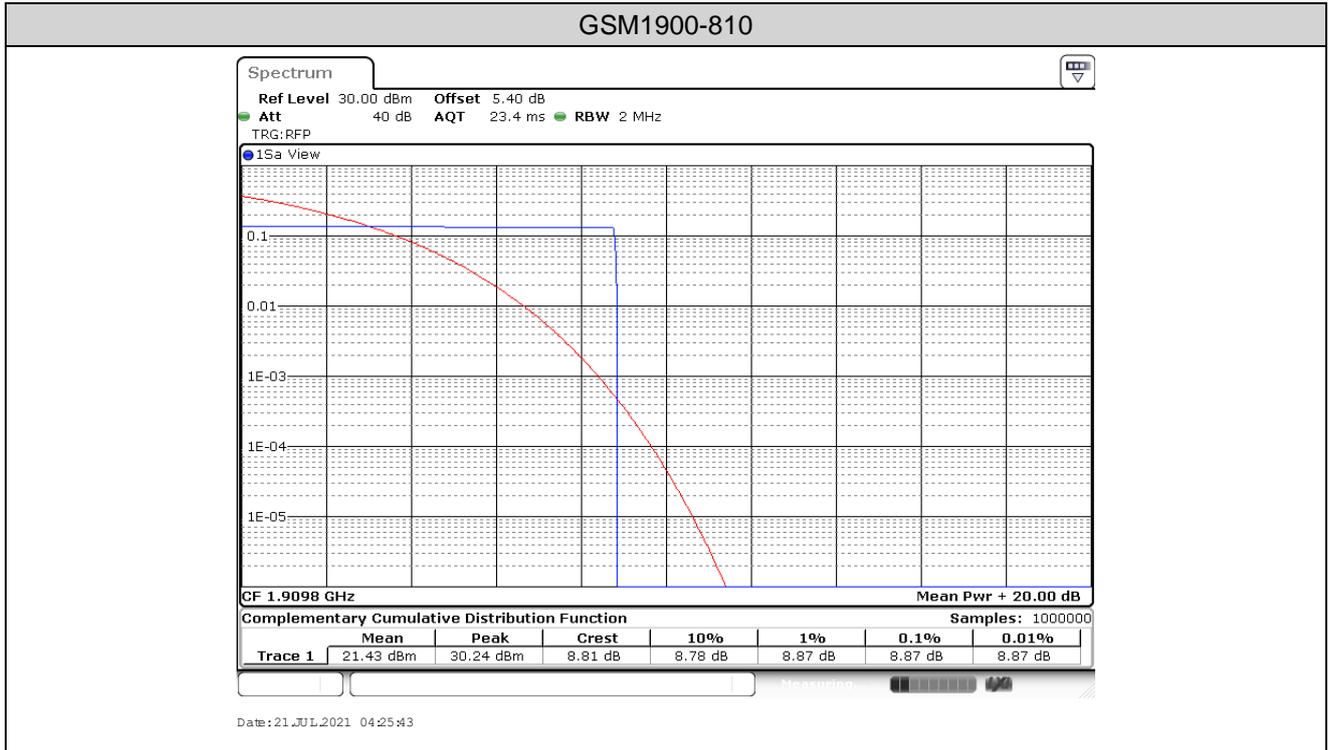
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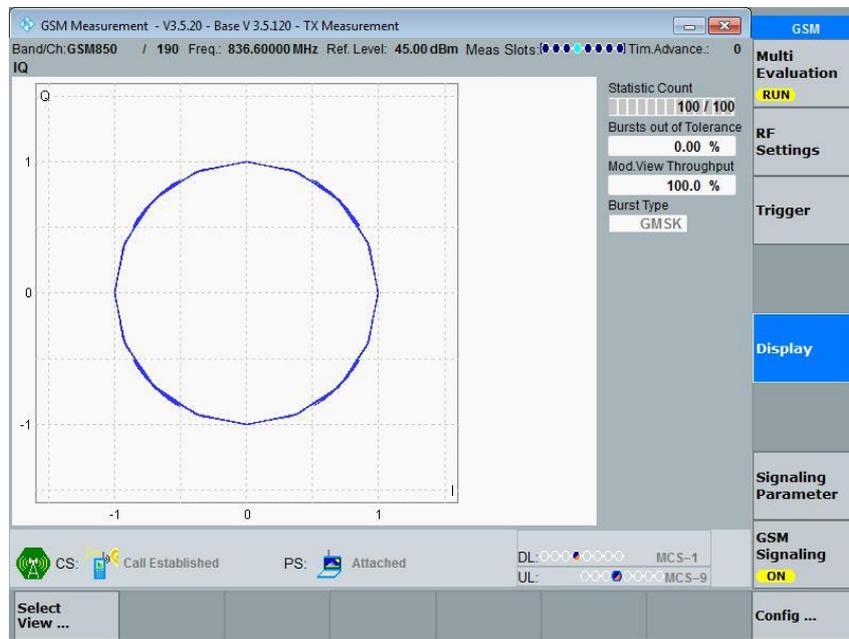
3. Modulation Characteristics

3.1. For GSM

3.1.1. Test Band = GSM 850

3.1.1.1. Test Mode = GSM/TM1

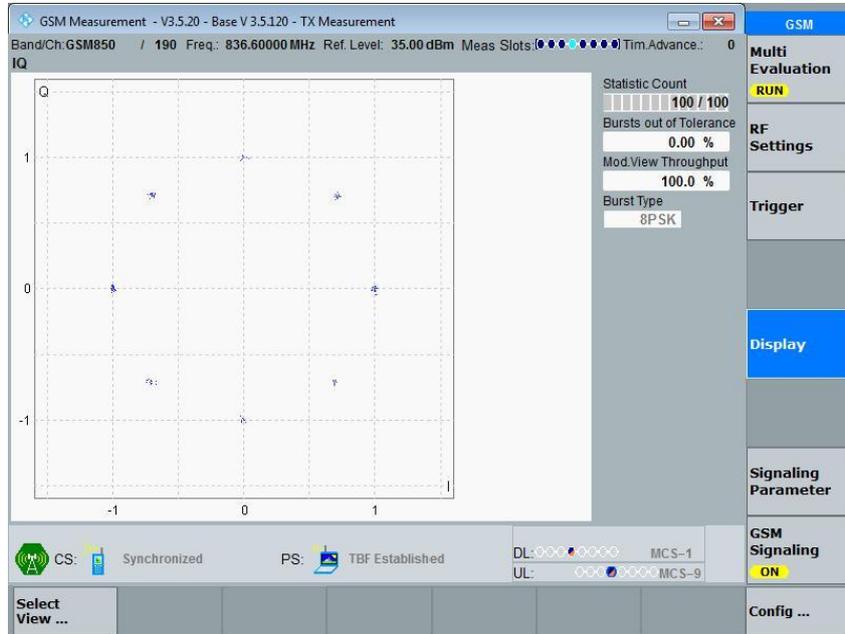
3.1.1.1.1. Test Channel = MCH



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3.1.1.2. Test Mode = GSM/TM2

3.1.1.2.1. Test Channel = MCH

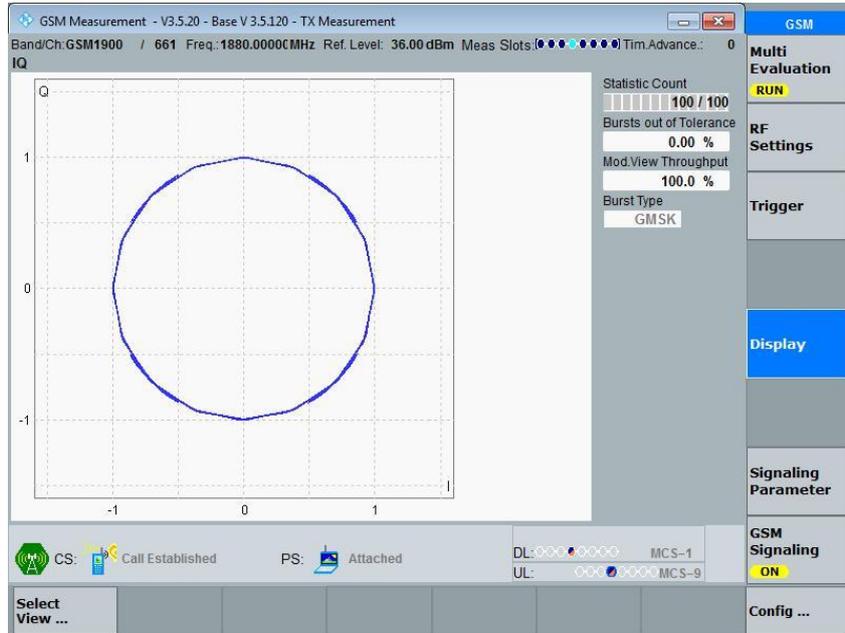


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3.1.2. Test Band = GSM 1900

3.1.2.1. Test Mode = GSM/TM1

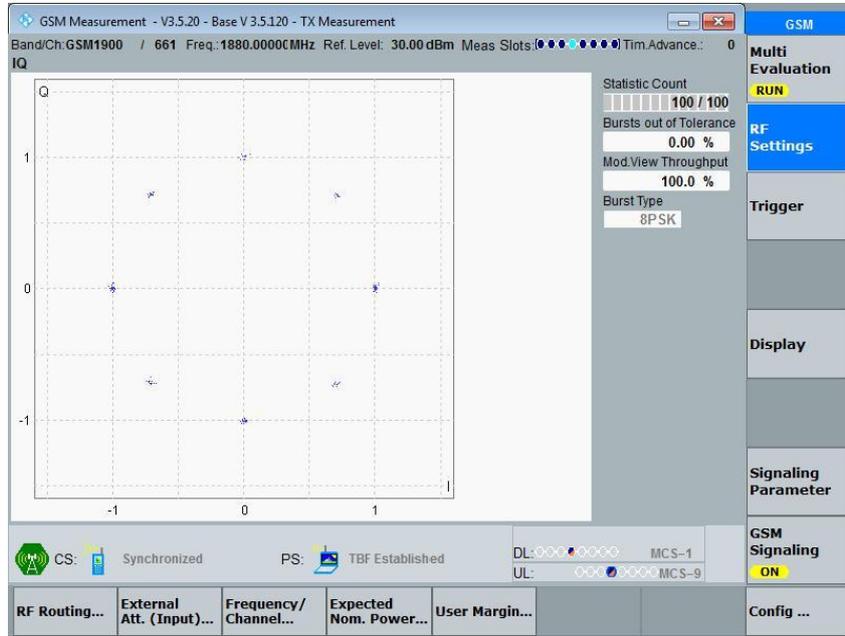
3.1.2.1.1. Test Channel = MCH



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3.1.2.2. Test Mode = GSM/TM2

3.1.2.2.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

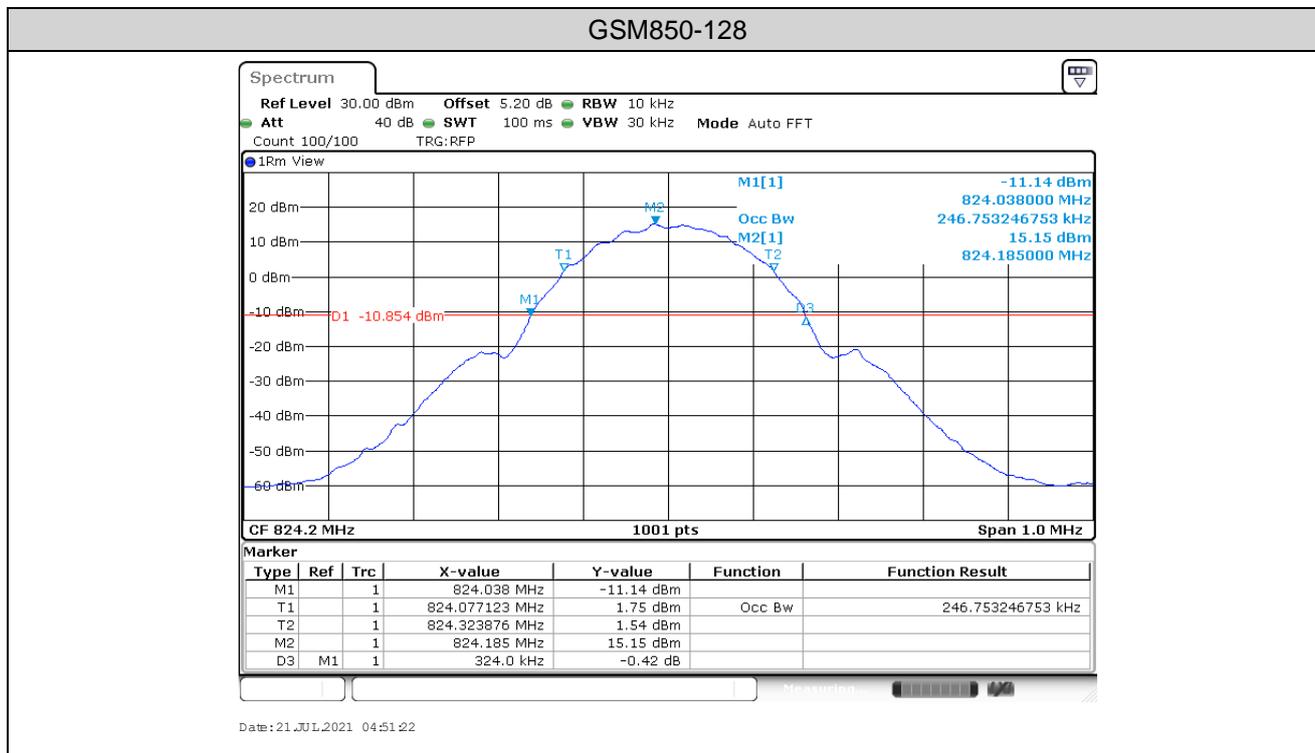
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.247	0.324	---	PASS
GSM850	190	0.248	0.323	---	PASS
GSM850	251	0.247	0.323	---	PASS
EGPRS850	128	0.246	0.318	---	PASS
EGPRS850	190	0.244	0.316	---	PASS
EGPRS850	251	0.246	0.316	---	PASS
GSM1900	512	0.248	0.323	---	PASS
GSM1900	661	0.247	0.322	---	PASS
GSM1900	810	0.248	0.324	---	PASS
EGPRS1900	512	0.246	0.321	---	PASS
EGPRS1900	661	0.246	0.317	---	PASS
EGPRS1900	810	0.245	0.319	---	PASS



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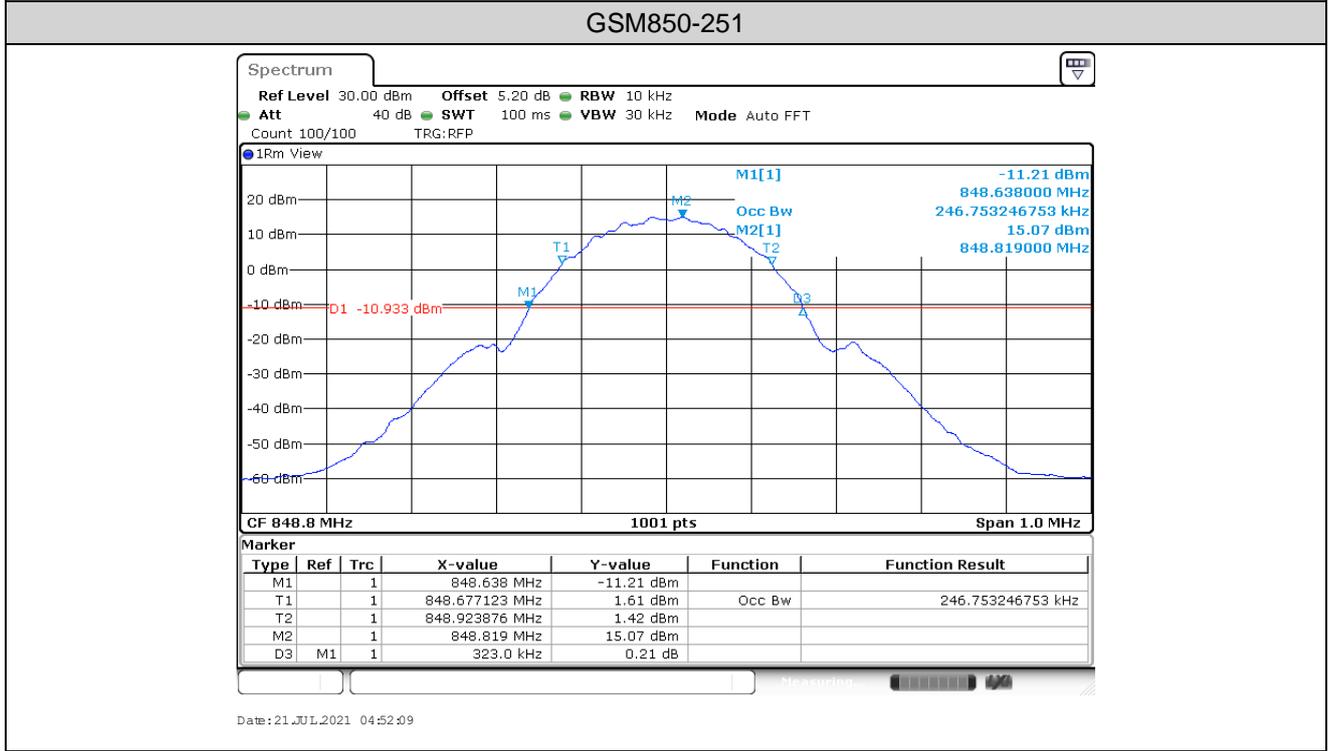
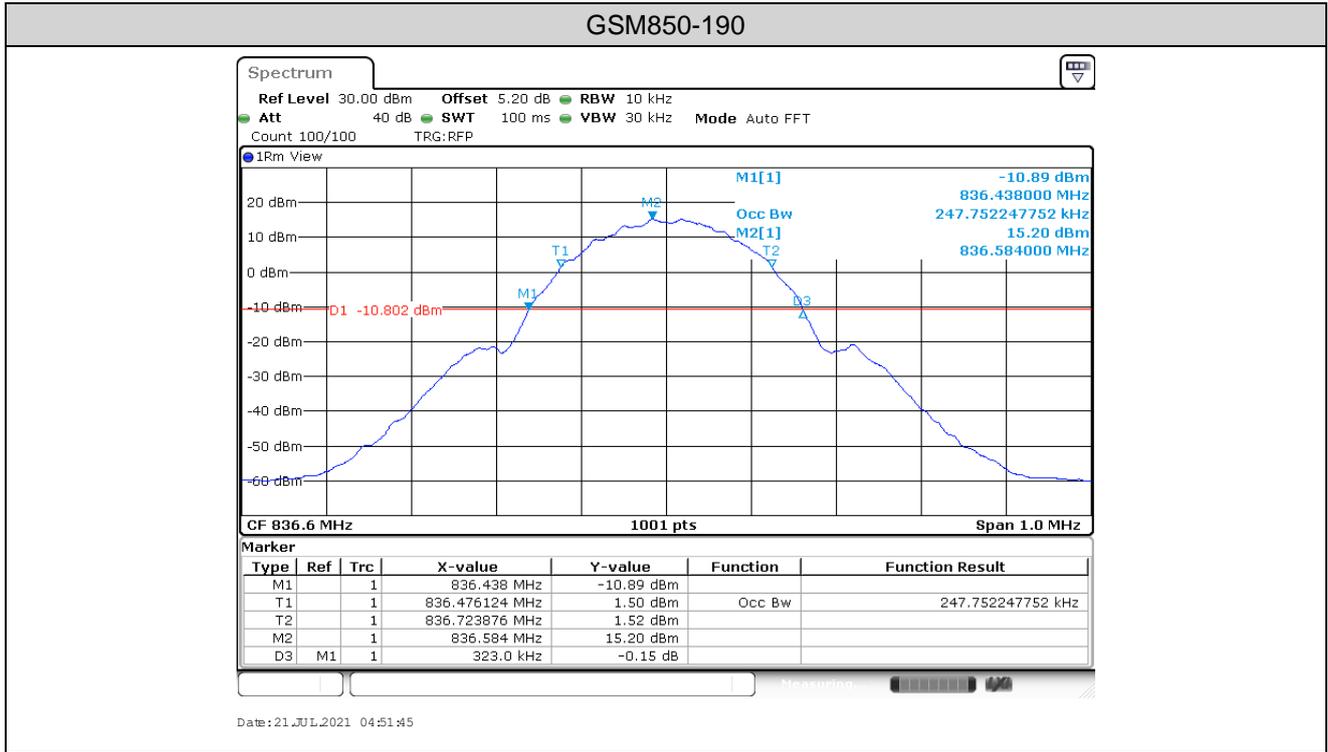
4.2. Test Plots



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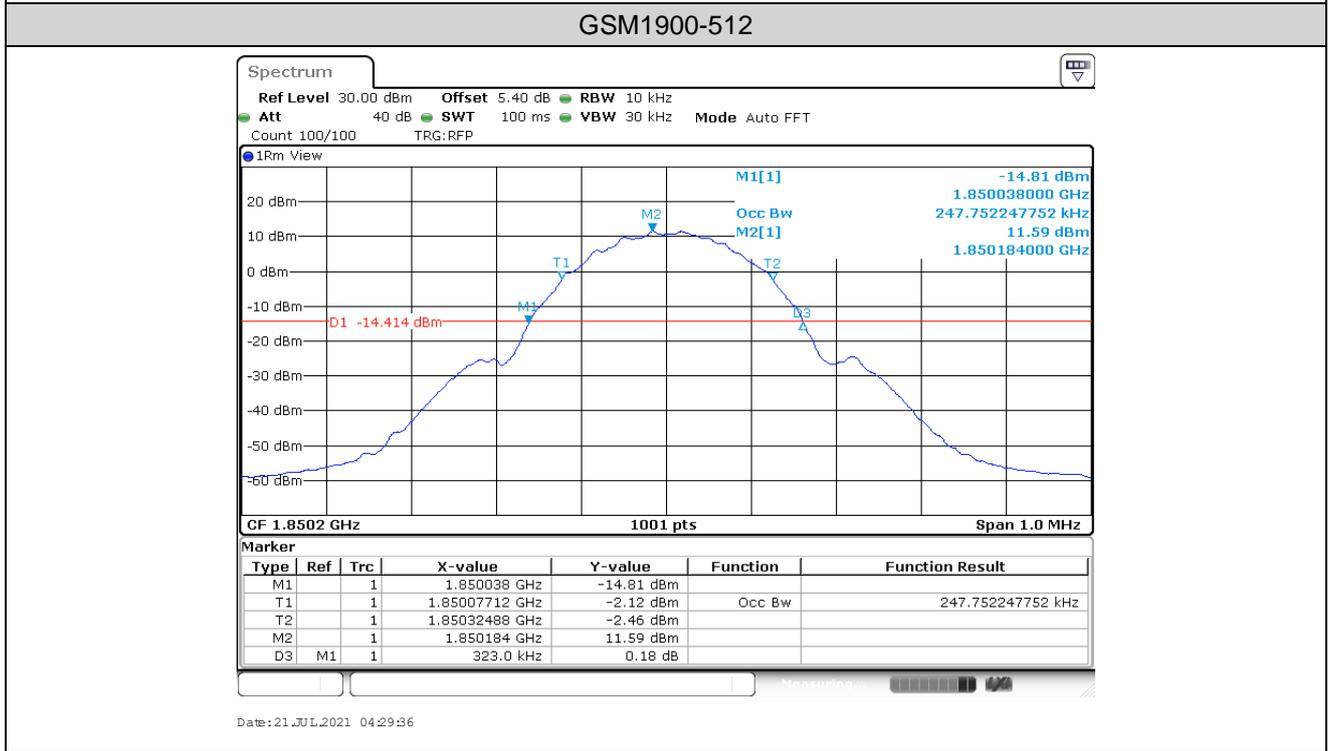
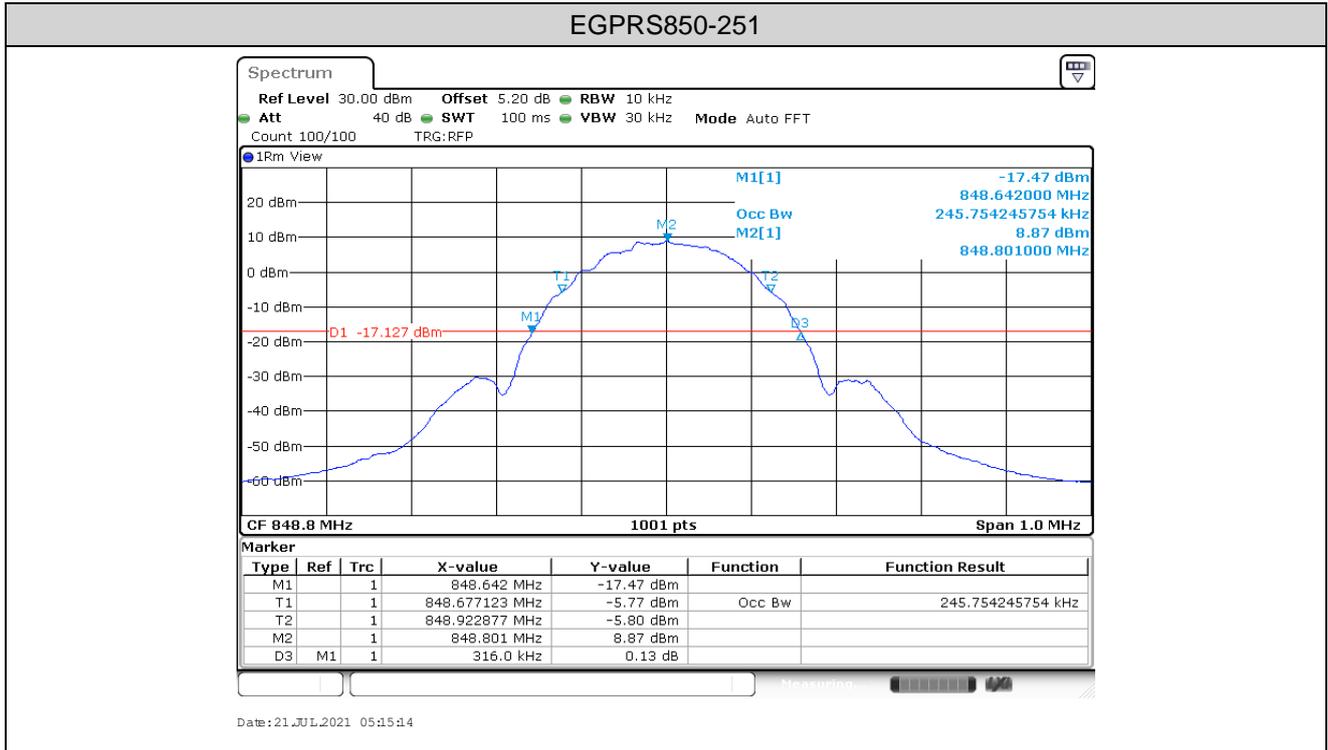
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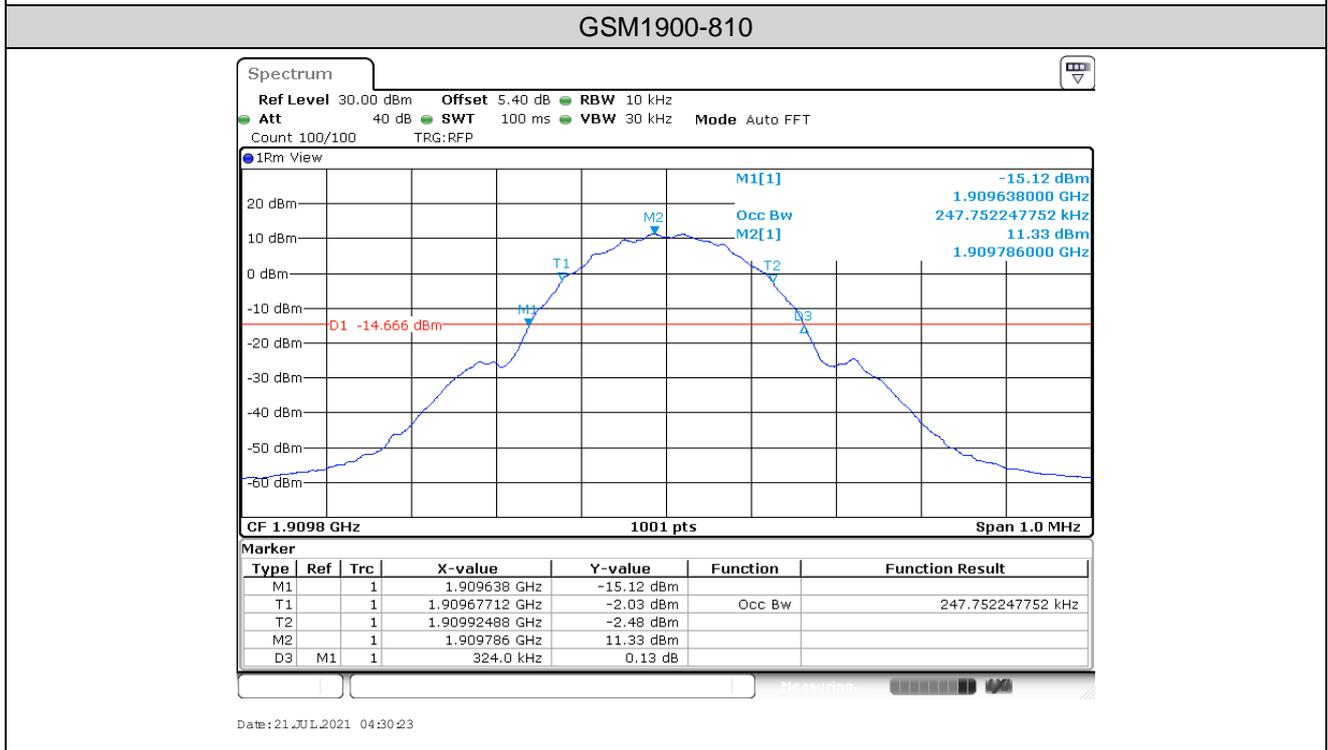
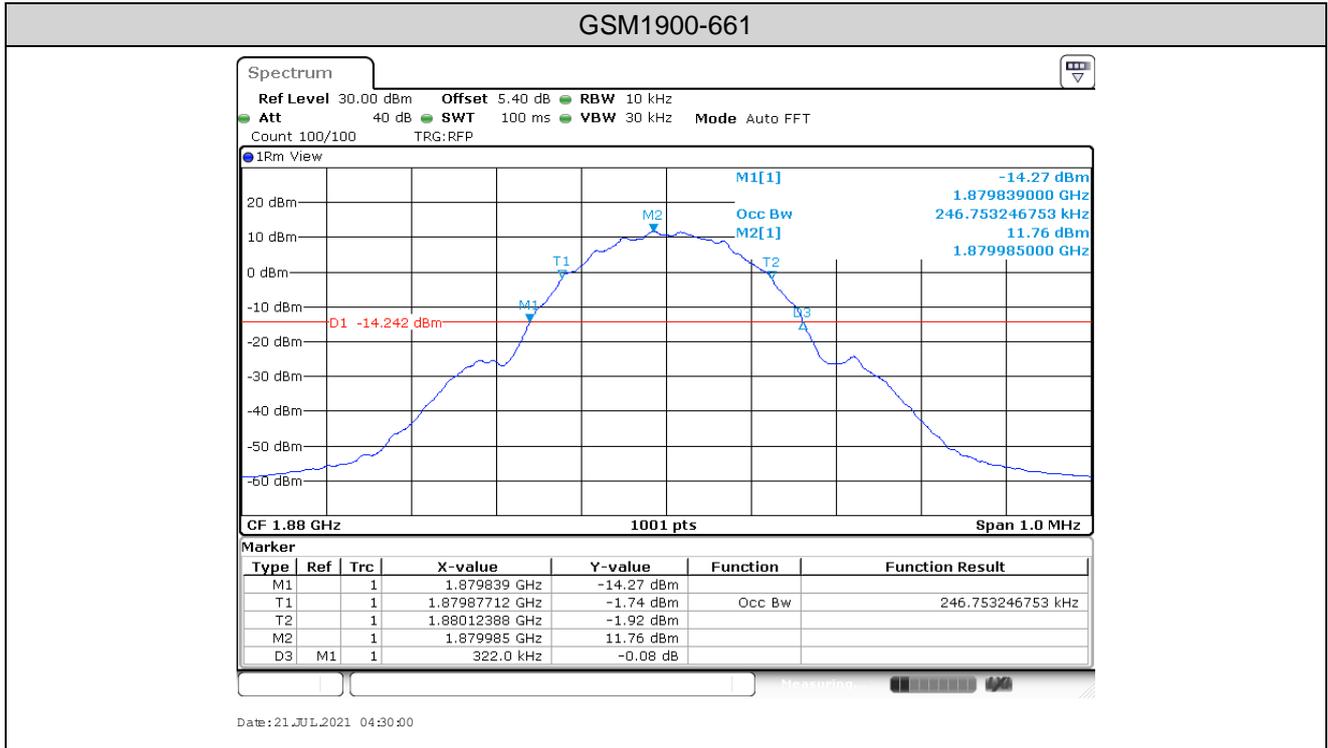
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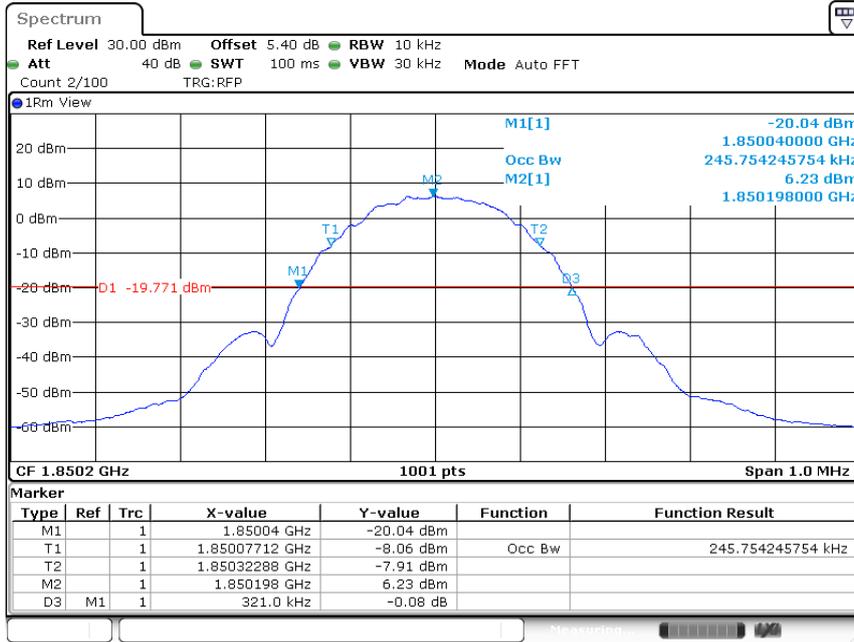
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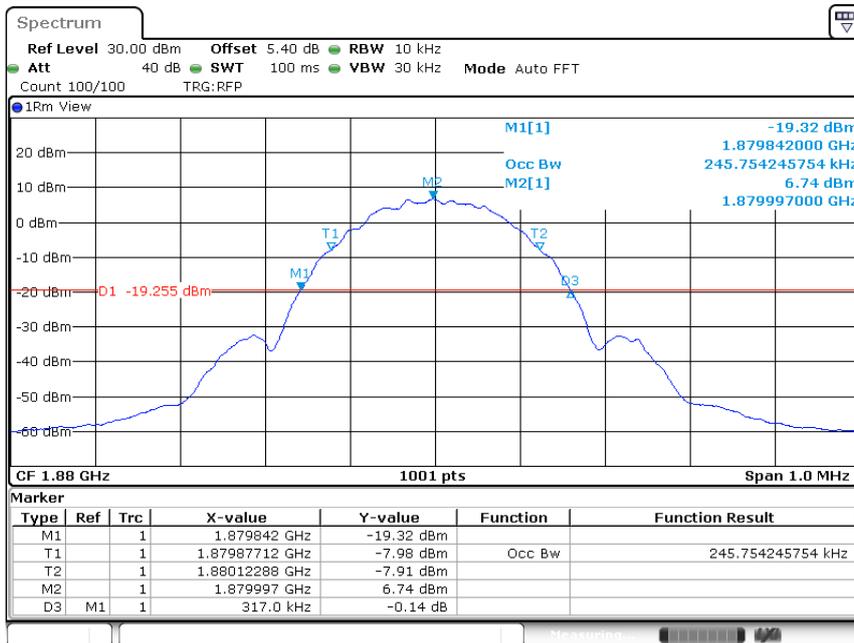
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EGPRS1900-512



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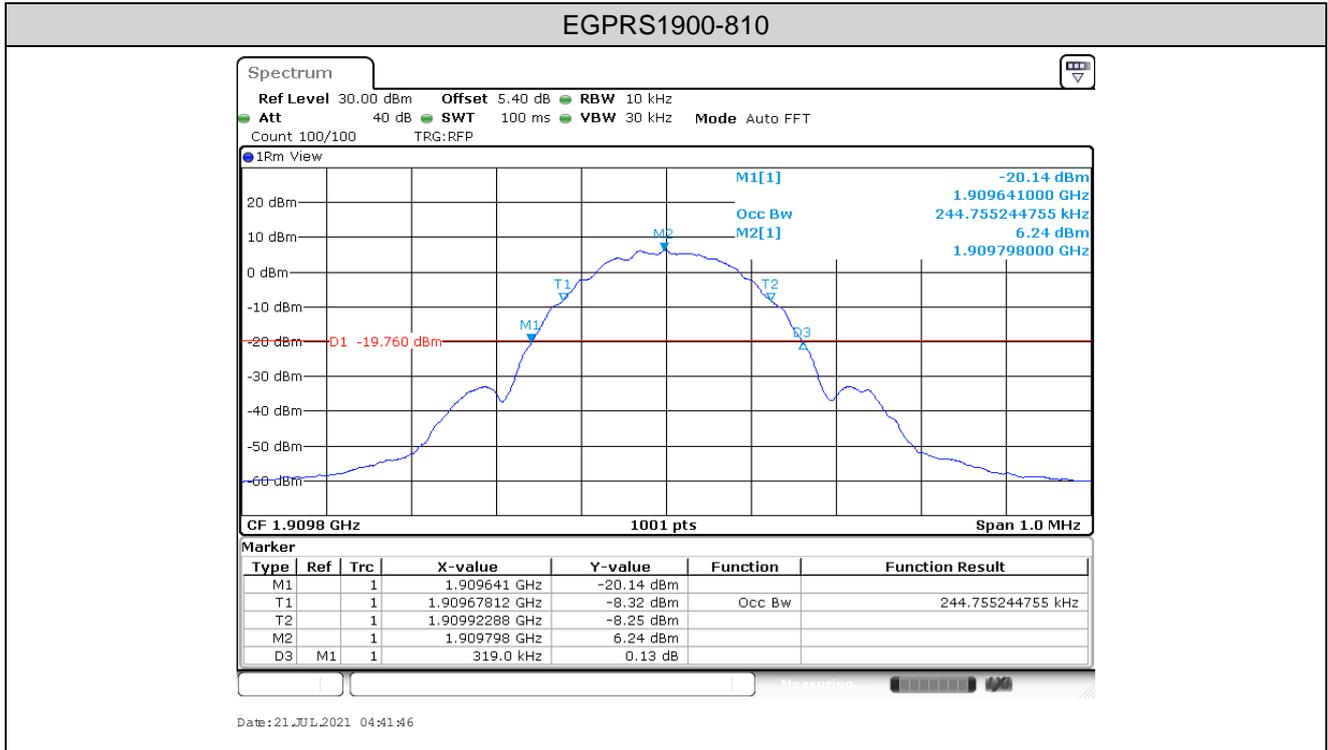
EGPRS1900-661



Date: 21 JUL 2021 04:41:22



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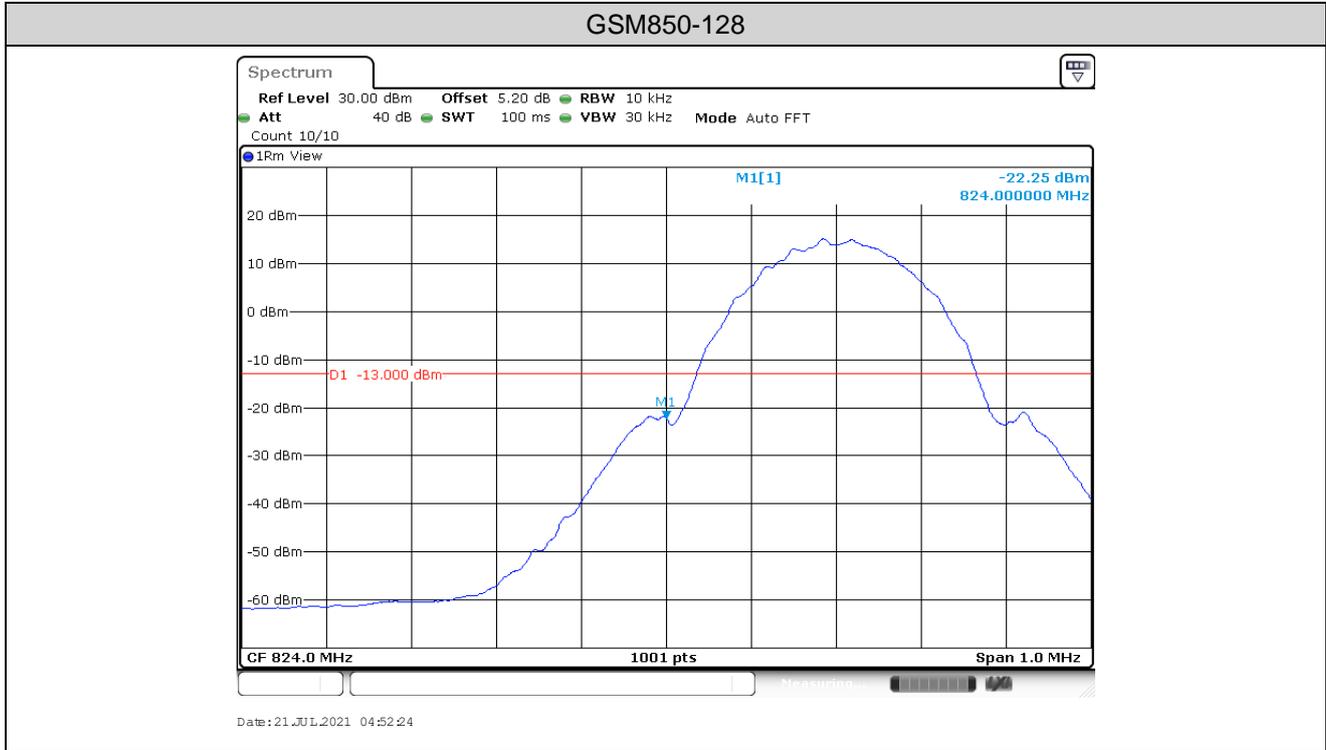


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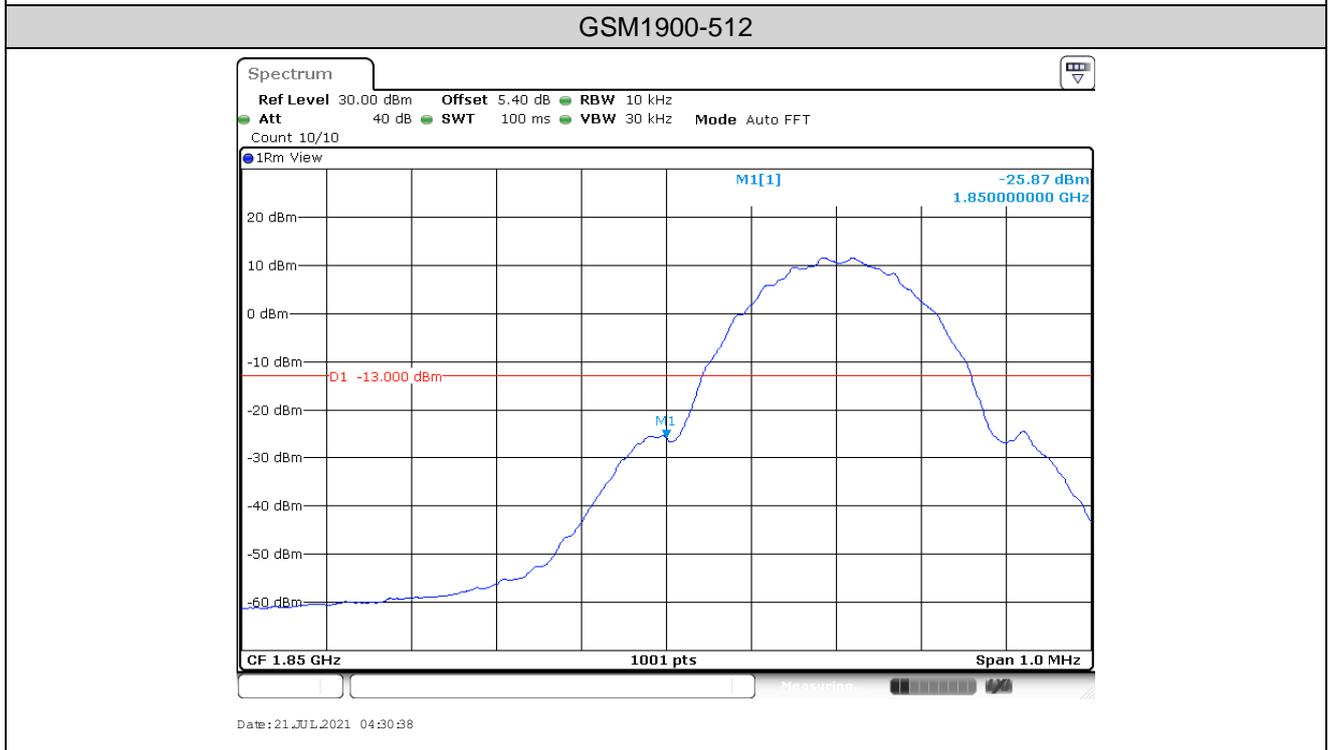
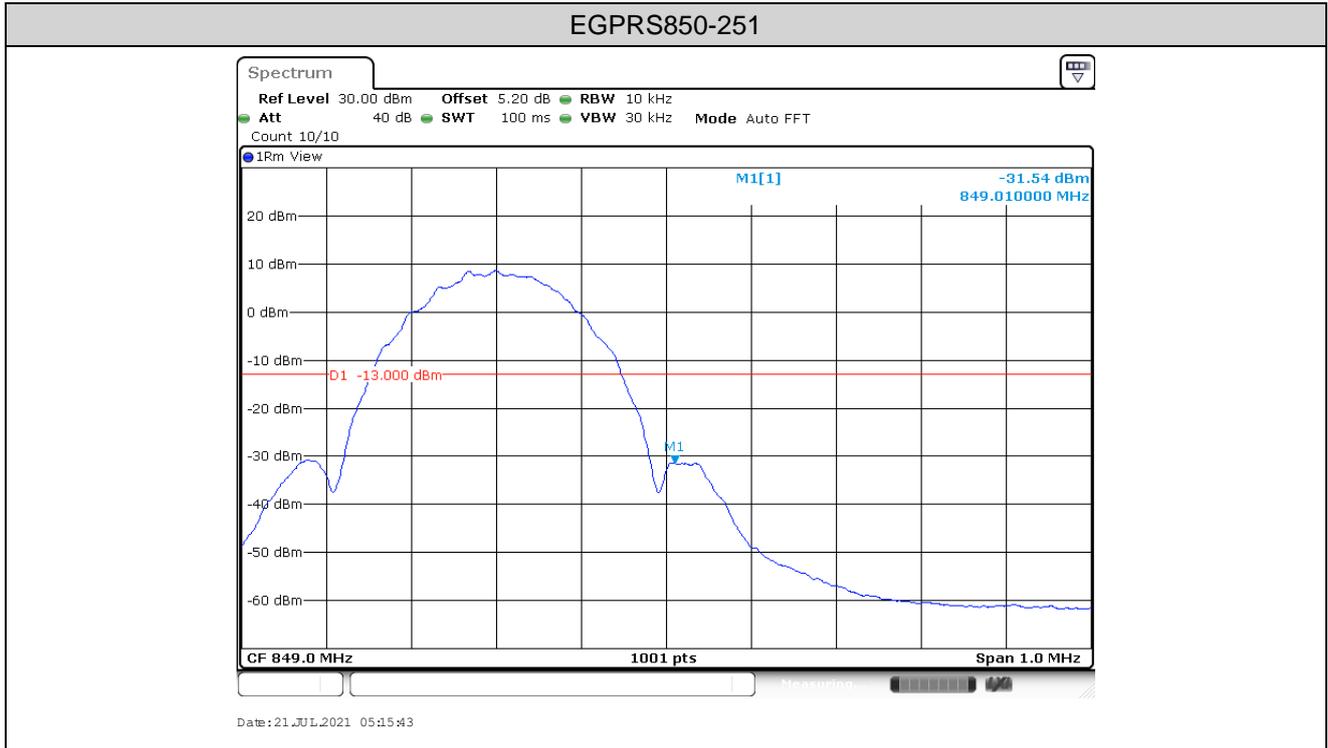
5. Band Edge Compliance

5.1. Test Plots



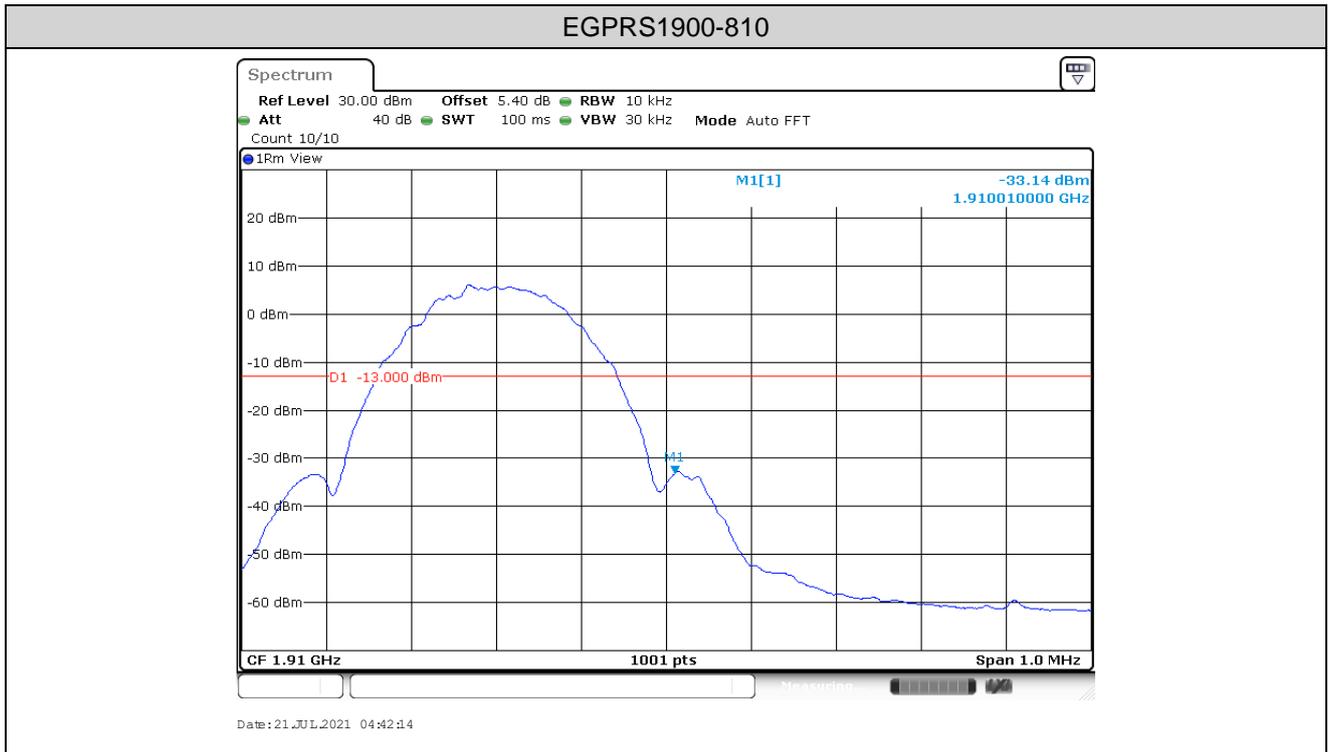
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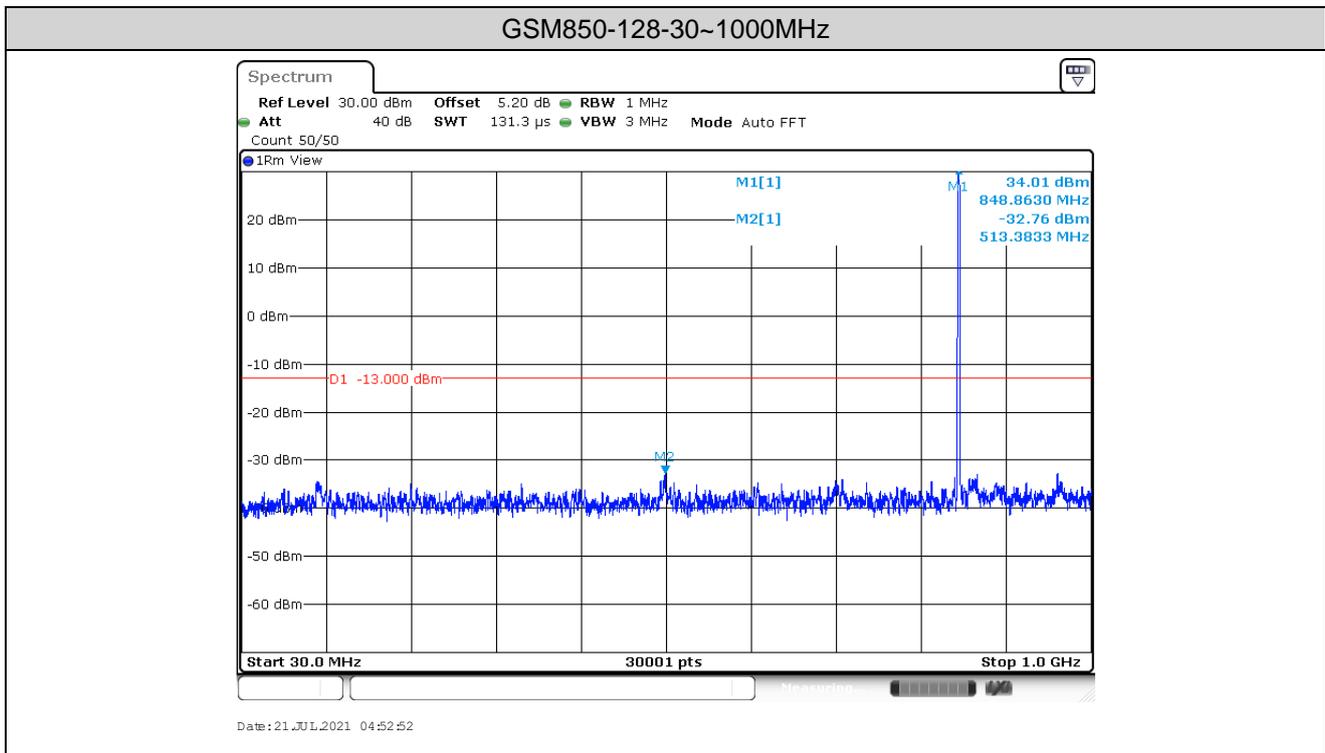
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6. Spurious Emission at Antenna Terminal

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.

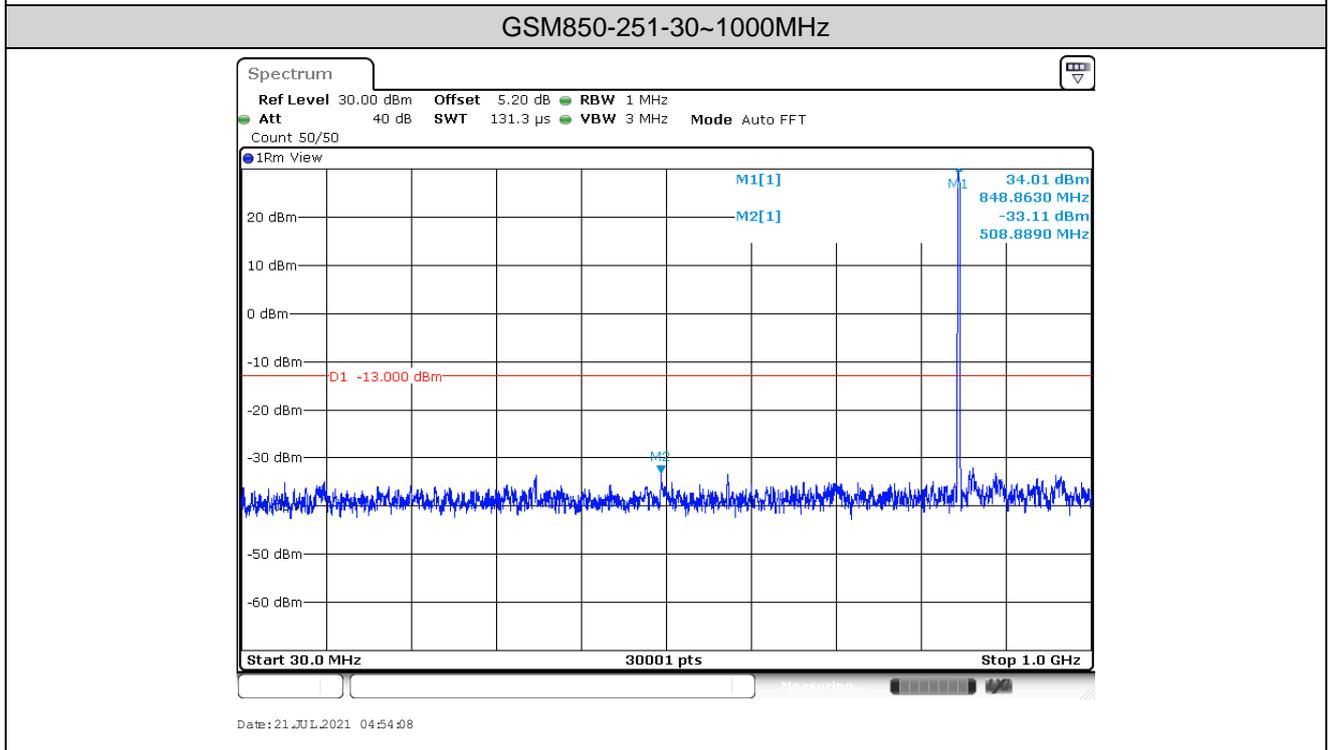
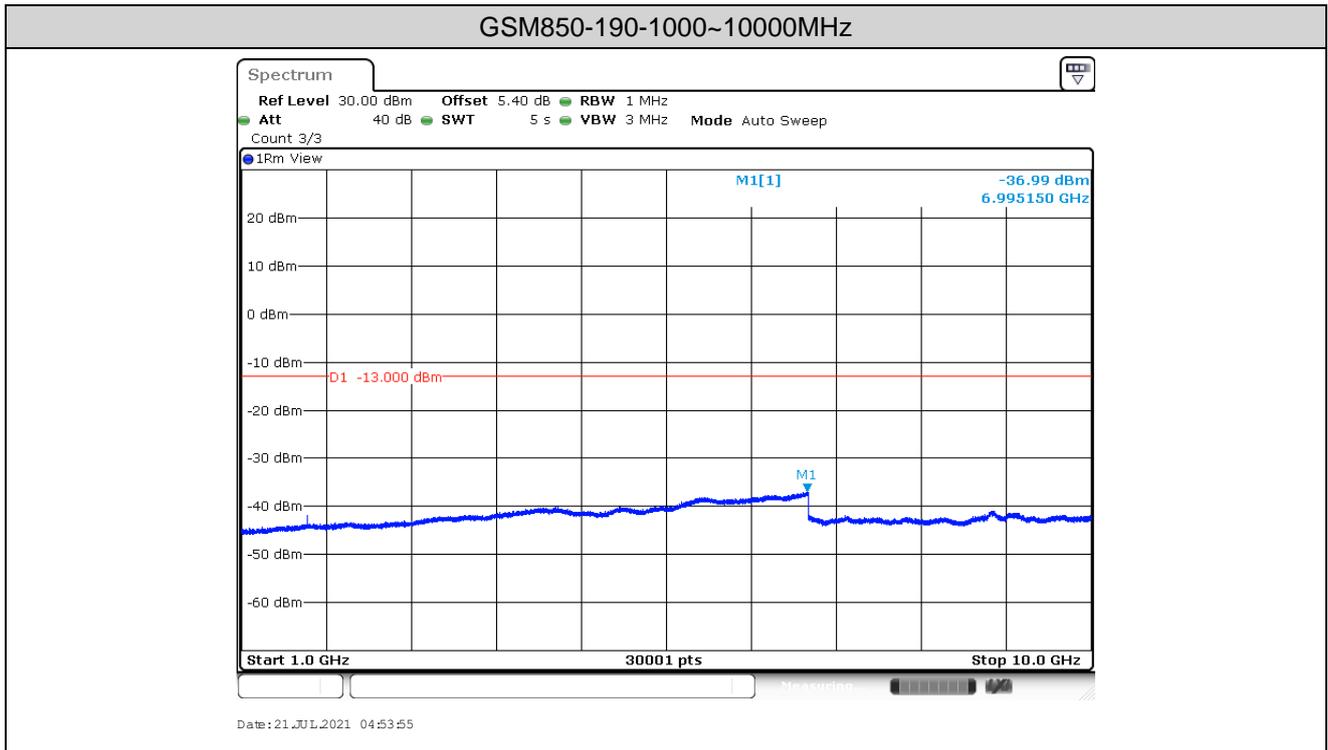
Remark2: only the worst case data displayed in this report.

6.1. Test Plots



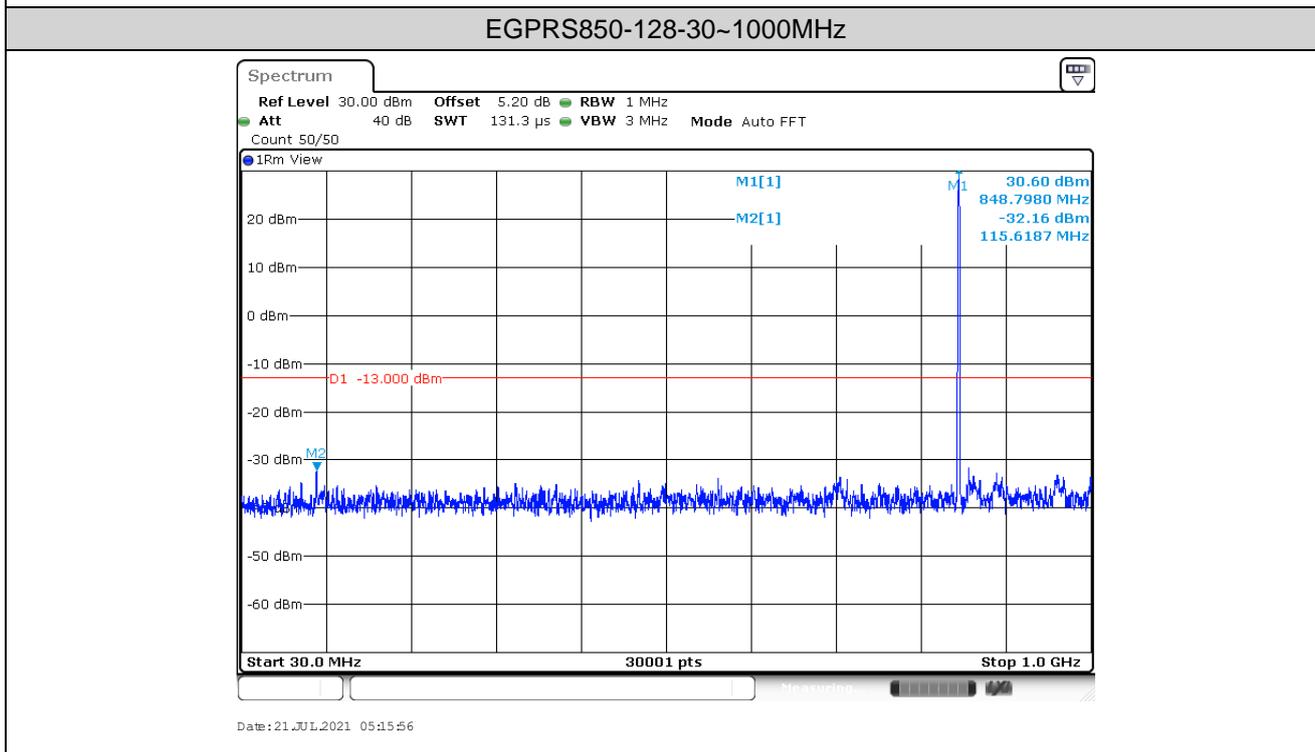
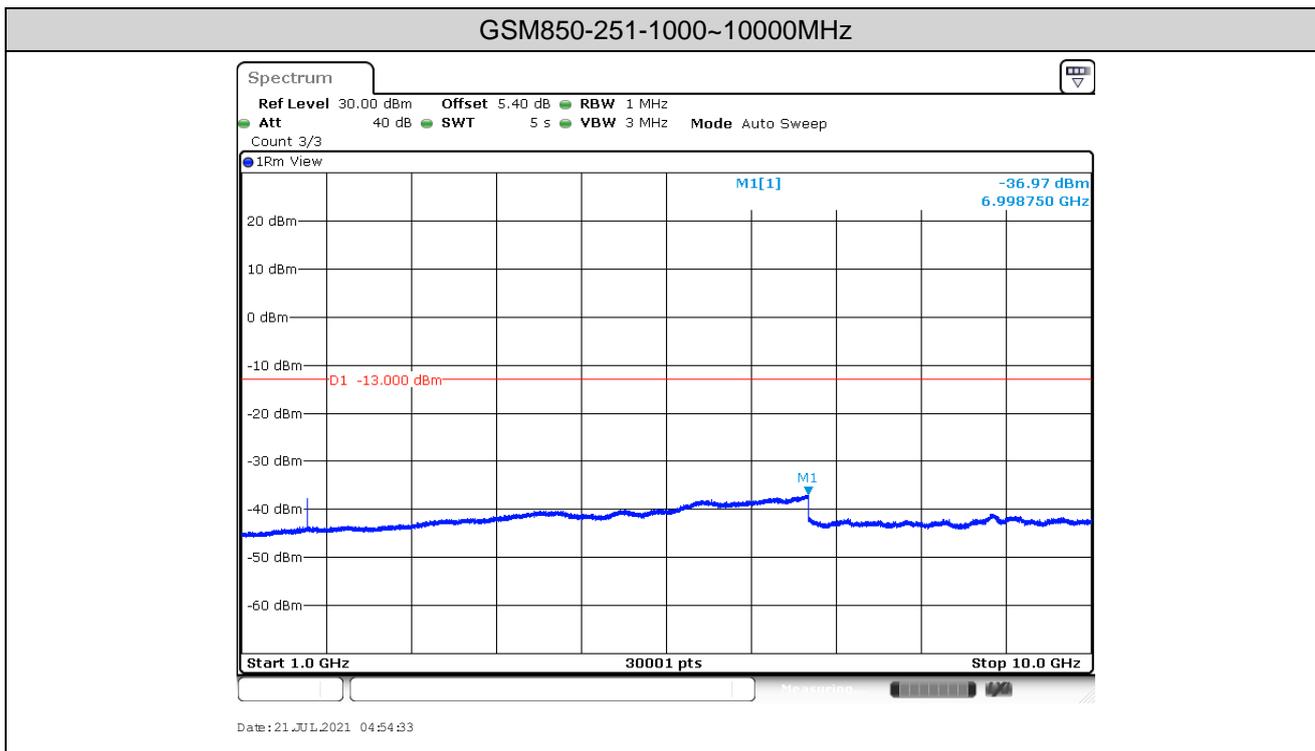
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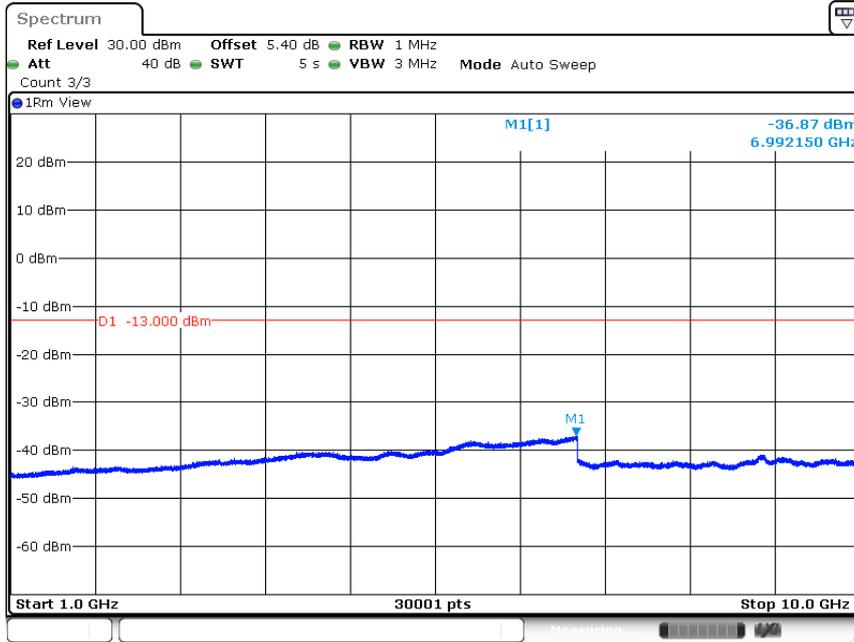


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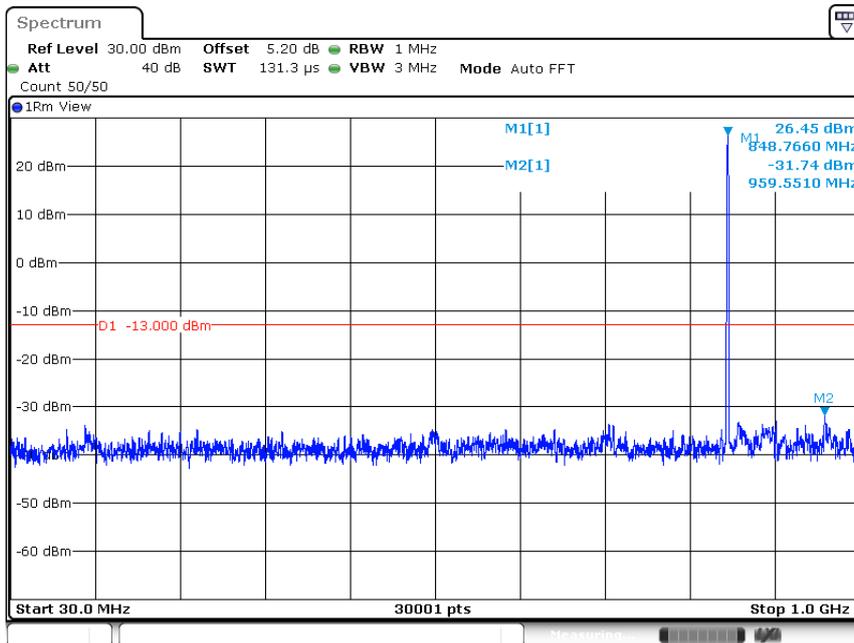
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EGPRS850-128-1000~10000MHz



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EGPRS850-190-30~1000MHz

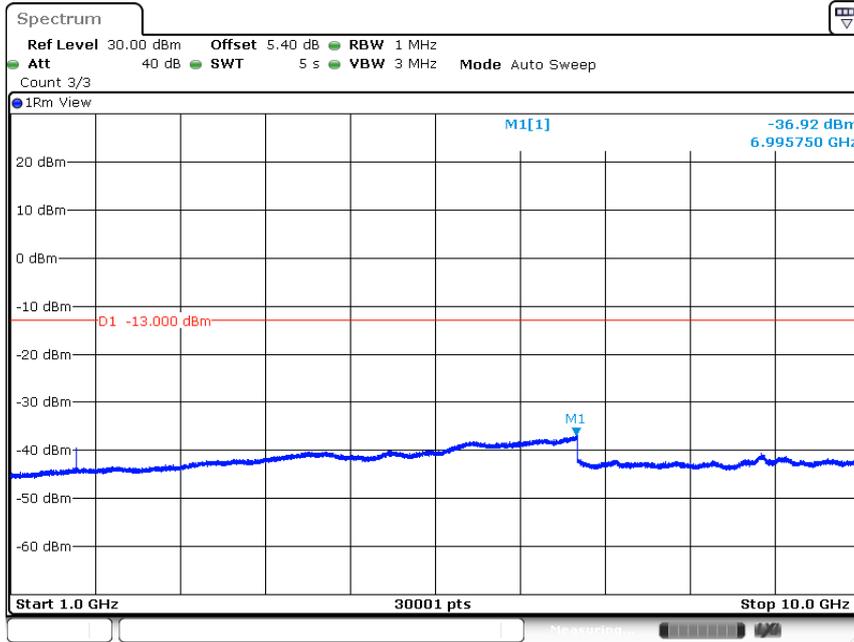


Date: 21 JUL 2021 05:16:34



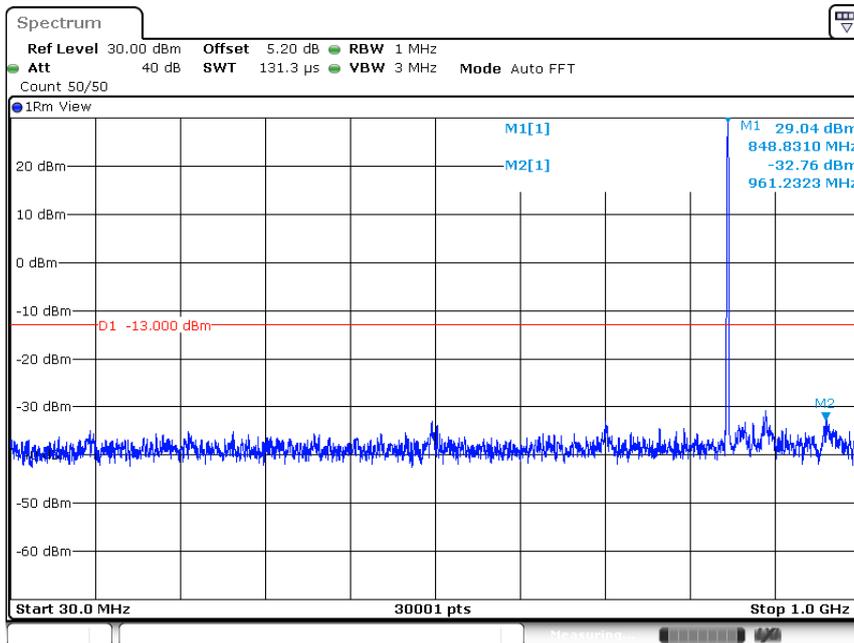
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EGPRS850-190-1000~10000MHz



Date: 21 JUL 2021 05:16:59

EGPRS850-251-30~1000MHz

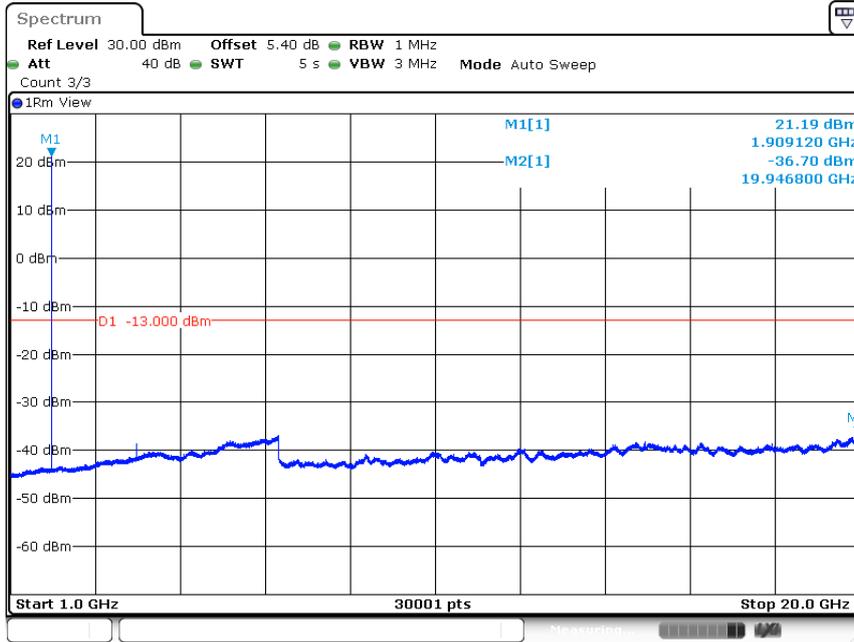


Date: 21 JUL 2021 05:17:12



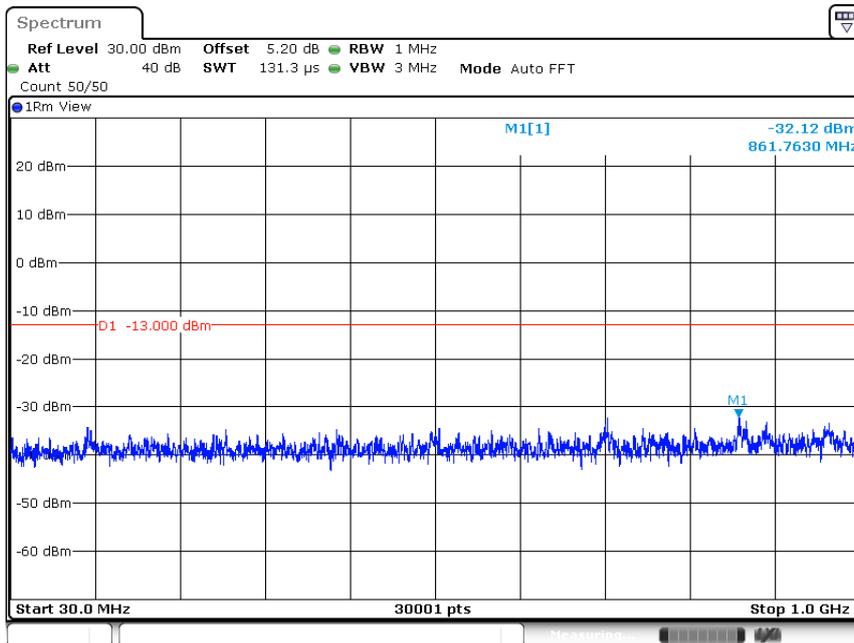
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GSM1900-512-1000~20000MHz



Date: 21 JUL 2021 04:31:43

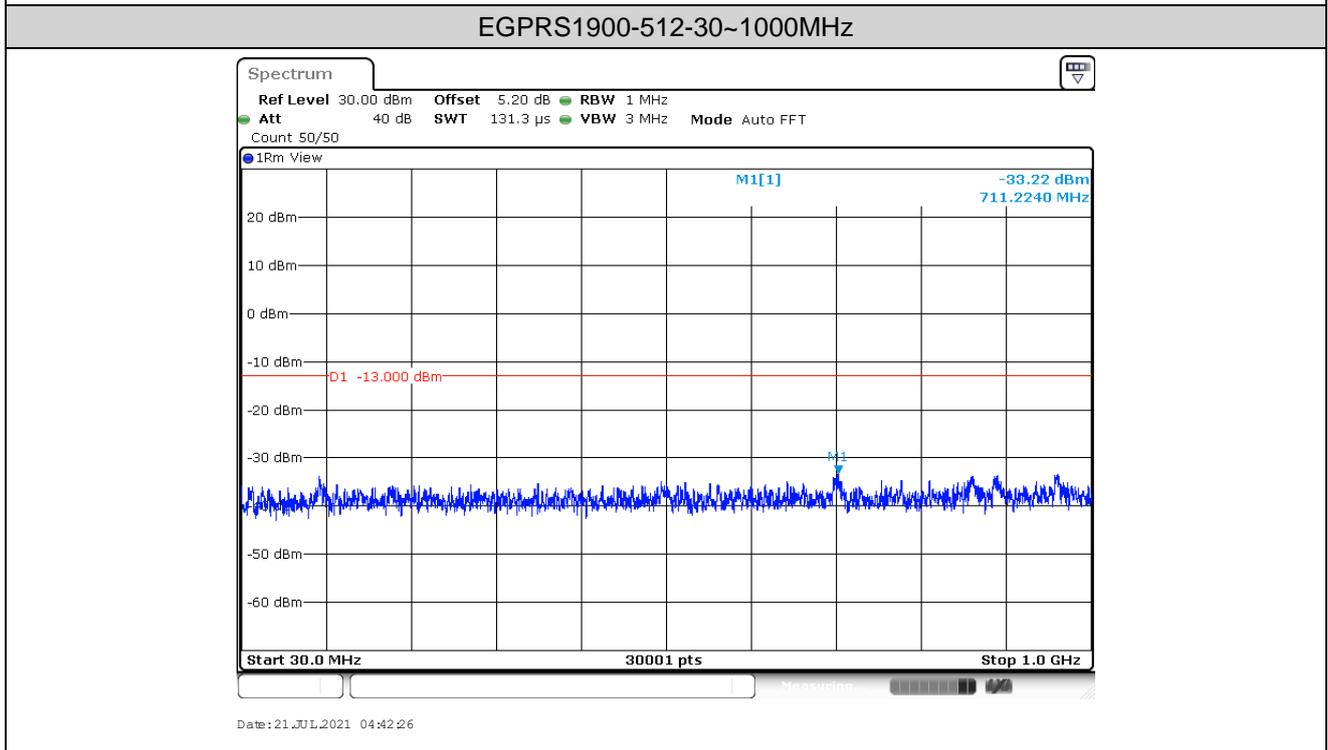
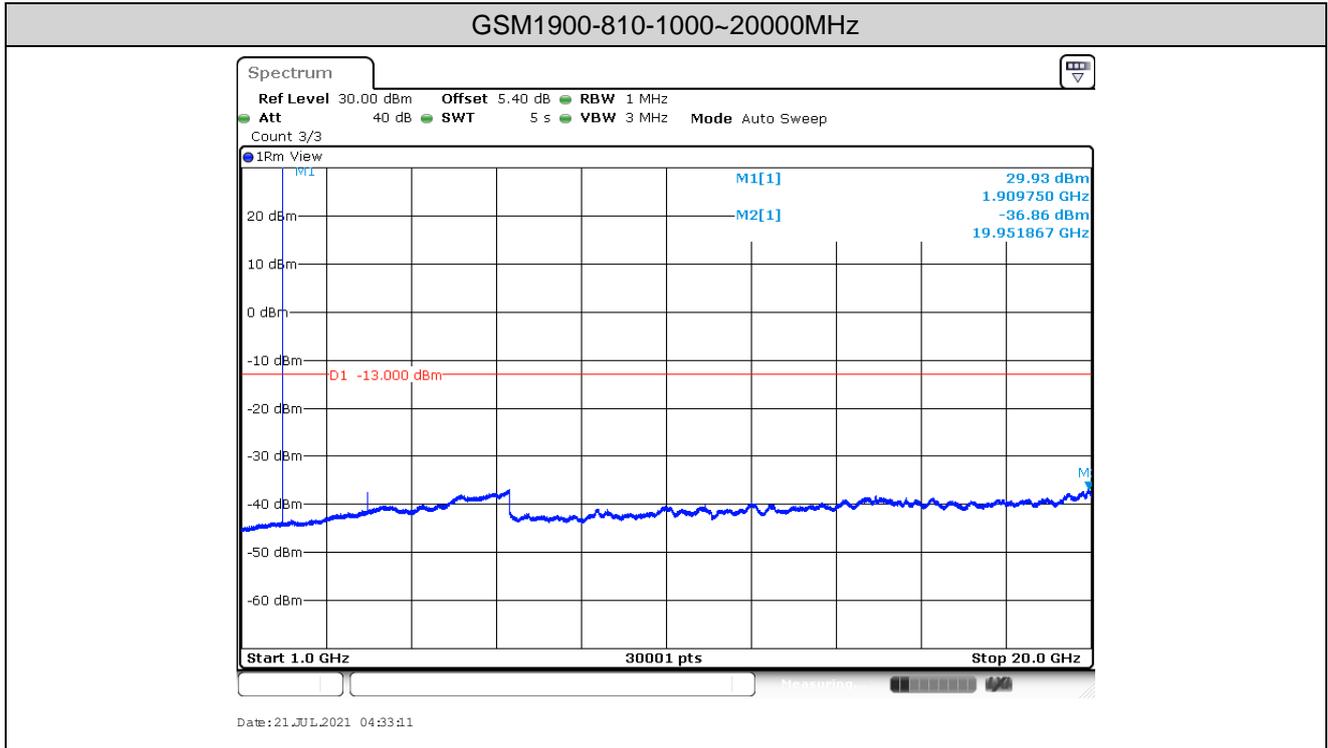
GSM1900-661-30~1000MHz



Date: 21 JUL 2021 04:31:56

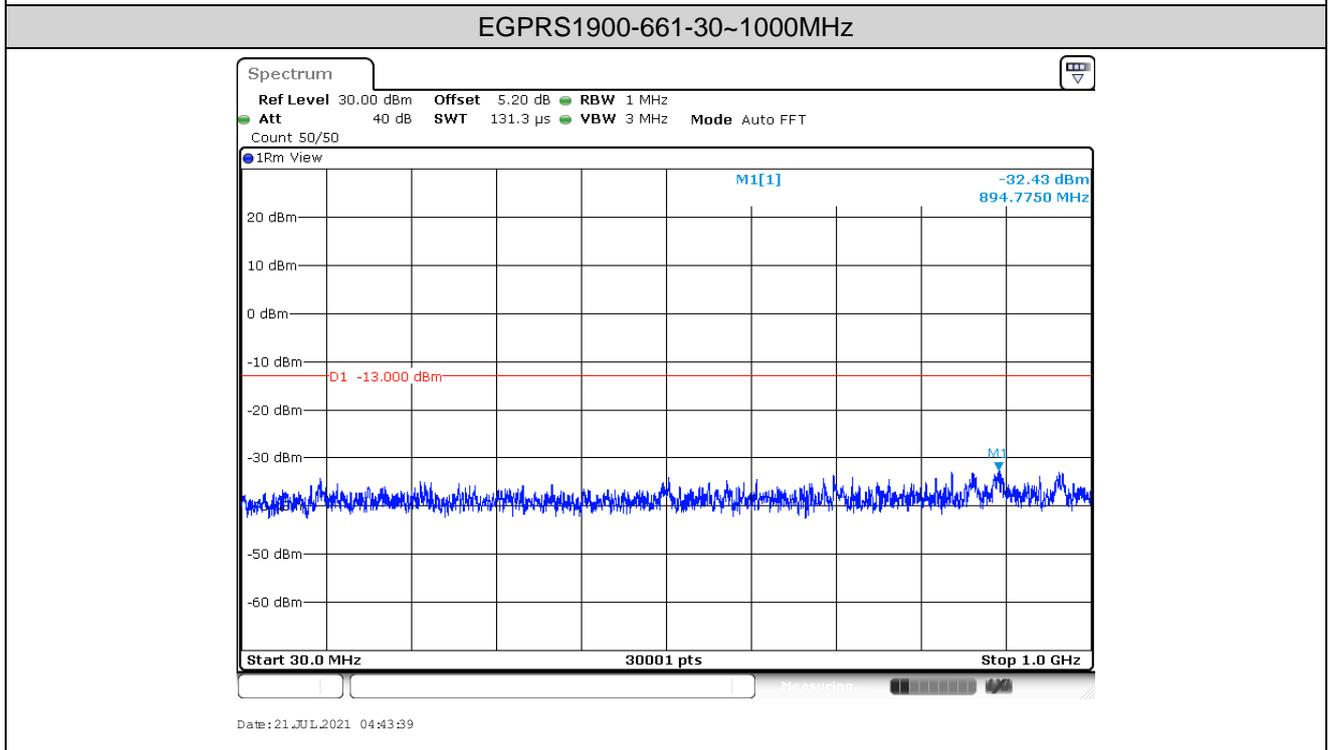
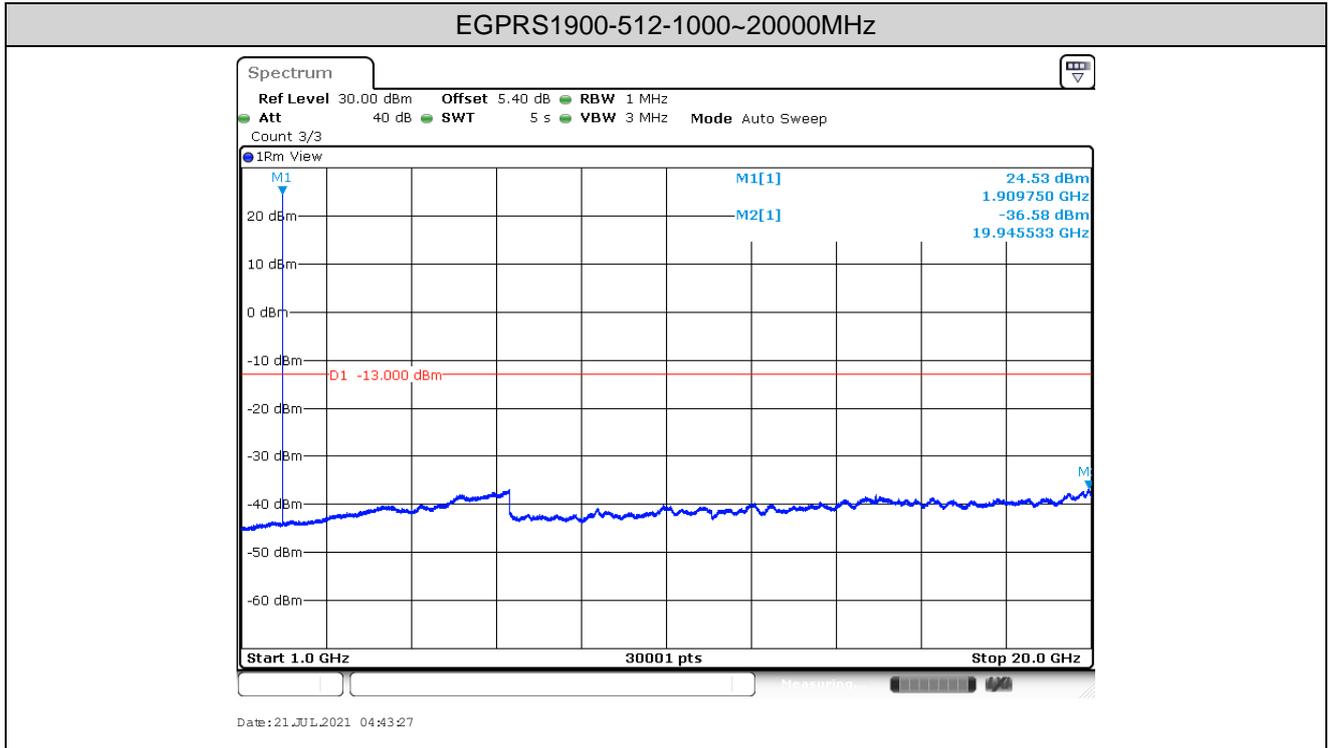


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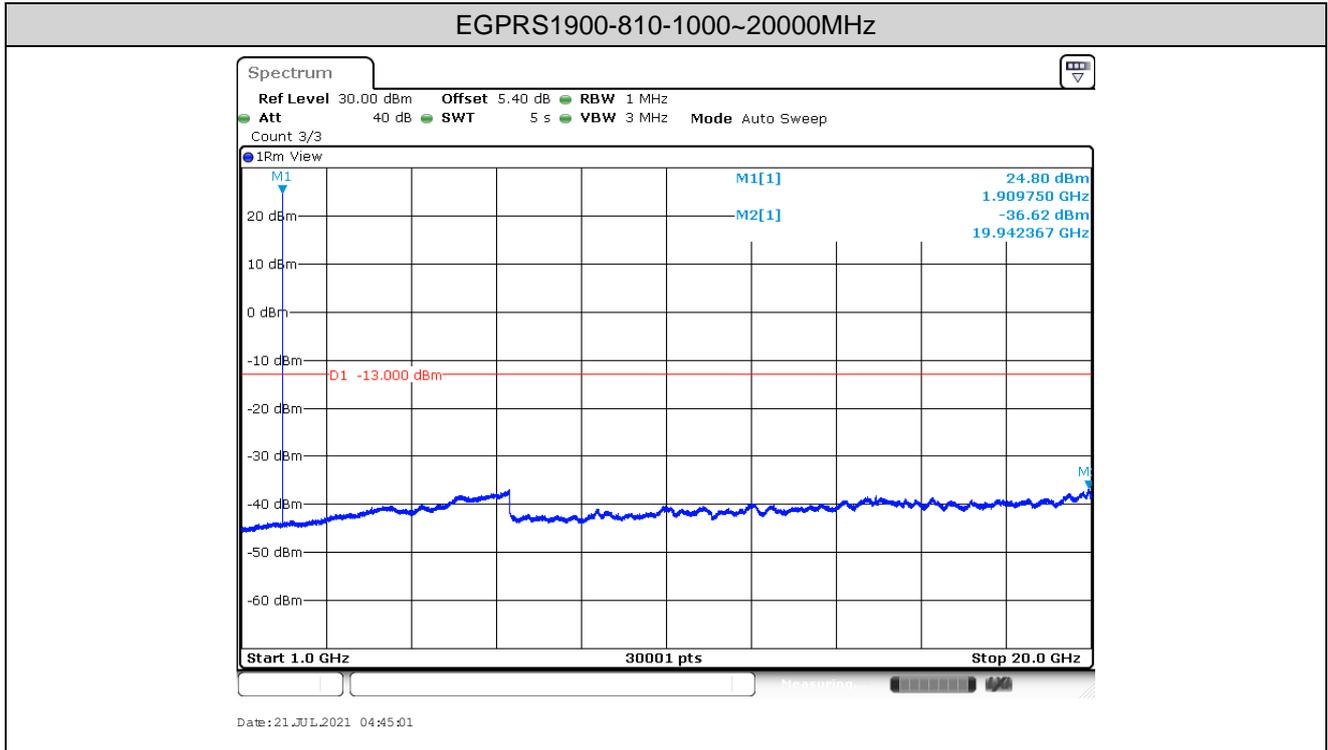


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7. Field Strength of Spurious Radiation

7.1. Test Band = _GSM 850 ANT1

7.1.1. Test Channel = Low

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1149.5187	20.60	-49.61	-25.00	24.61	Horizontal
2	2020.6276	20.83	-47.80	-25.00	22.80	Horizontal
3	4145.3073	51.21	-61.68	-25.00	36.68	Horizontal
4	6998.4499	49.27	-54.31	-25.00	29.31	Horizontal
5	10684.134	47.60	-49.55	-25.00	24.55	Horizontal
6	15188.109	45.62	-47.30	-25.00	22.30	Horizontal



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7.2. Test Band = _GSM 850 ANT1

7.2.1. Test Channel = Low

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1150.2688	20.61	-49.58	-25.00	24.58	Vertical
2	1871.1089	20.22	-49.24	-25.00	24.24	Vertical
3	2731.9665	21.11	-44.57	-25.00	19.57	Vertical
4	4437.0719	51.76	-60.29	-25.00	35.29	Vertical
5	7444.7222	49.12	-53.39	-25.00	28.39	Vertical
6	13376.018	46.25	-46.34	-25.00	21.34	Vertical



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7.3. Test Band = _GSM 850 ANT1

7.3.1. Test Channel = Mid

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1333.2917	20.65	-49.72	-25.00	24.72	Horizontal
2	2306.4133	20.77	-46.83	-25.00	21.83	Horizontal
3	4209.8105	51.93	-60.81	-25.00	35.81	Horizontal
4	6512.4256	49.08	-55.53	-25.00	30.53	Horizontal
5	10033.101	47.47	-50.56	-25.00	25.56	Horizontal
6	17986.499	48.77	-44.83	-25.00	19.83	Horizontal



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7.4. Test Band = _GSM 850 ANT1

7.4.1. Test Channel = Mid

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1312.2890	20.70	-49.81	-25.00	24.81	Vertical
2	2133.8917	20.81	-47.42	-25.00	22.42	Vertical
3	4227.0614	52.08	-60.62	-25.00	35.62	Vertical
4	6981.1991	49.13	-54.54	-25.00	29.54	Vertical
5	10621.8811	47.41	-49.44	-25.00	24.44	Vertical
6	17979.749	48.86	-44.60	-25.00	19.60	Vertical



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7.5. Test Band = _GSM 850 ANT1

7.5.1. Test Channel = High

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1329.2912	20.52	-49.81	-25.00	24.81	Horizontal
2	2336.6671	21.00	-46.46	-25.00	21.46	Horizontal
3	4144.5572	51.82	-61.08	-25.00	36.08	Horizontal
4	6729.9365	49.21	-55.04	-25.00	30.04	Horizontal
5	10597.879	47.04	-49.83	-25.00	24.83	Horizontal
6	17992.499	48.99	-44.73	-25.00	19.73	Horizontal



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7.6. Test Band = _GSM 850 ANT1

7.6.1. Test Channel = High

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1259.0324	20.76	-49.60	-25.00	24.60	Vertical
2	2144.1430	20.81	-47.36	-25.00	22.36	Vertical
3	4501.5751	51.21	-60.56	-25.00	35.56	Vertical
4	6957.1979	49.76	-54.03	-25.00	29.03	Vertical
5	10620.381	48.12	-48.73	-25.00	23.73	Vertical
6	17990.999	48.34	-45.35	-25.00	20.35	Vertical



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7.7. Test Band = _GSM 1900 ANT1

7.7.1. Test Channel = Low

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1333.7917	20.74	-49.64	-25.00	24.64	Horizontal
2	2673.2092	21.27	-44.80	-25.00	19.80	Horizontal
3	5715.8858	49.93	-57.21	-25.00	32.21	Horizontal
4	9360.3180	47.66	-51.08	-25.00	26.08	Horizontal
5	14050.302	45.27	-46.68	-25.00	21.68	Horizontal
6	17915.245	47.55	-45.40	-25.00	20.40	Horizontal



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7.8. Test Band = _GSM 1900 ANT1

7.8.1. Test Channel = Low

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1329.7912	20.38	-49.93	-25.00	24.93	Vertical
2	2507.4384	21.16	-45.44	-25.00	20.44	Vertical
3	4437.0719	51.11	-60.94	-25.00	35.94	Vertical
4	7876.7438	48.59	-53.34	-25.00	28.34	Vertical
5	12995.749	45.44	-47.07	-25.00	22.07	Vertical
6	17983.499	48.38	-45.15	-25.00	20.15	Vertical



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7.9. Test Band = _GSM 1900 ANT1

7.9.1. Test Channel = Mid

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1317.5397	20.86	-49.69	-25.00	24.69	Horizontal
2	2493.1866	21.28	-45.41	-25.00	20.41	Horizontal
3	5321.3661	50.00	-58.96	-25.00	33.96	Horizontal
4	7876.7438	48.84	-53.09	-25.00	28.09	Horizontal
5	12436.971	46.41	-47.45	-25.00	22.45	Horizontal
6	17945.247	47.82	-45.03	-25.00	20.03	Horizontal



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7.10. Test Band = _GSM 1900 ANT1

7.10.1. Test Channel = Mid

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1385.2982	20.92	-49.32	-25.00	24.32	Vertical
2	2648.4561	20.95	-45.20	-25.00	20.20	Vertical
3	3756.7878	52.15	-62.41	-25.00	37.41	Vertical
4	6024.9012	50.09	-56.63	-25.00	31.63	Vertical
5	8972.5486	47.43	-51.76	-25.00	26.76	Vertical
6	17910.745	48.04	-44.92	-25.00	19.92	Vertical



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7.11. Test Band = _GSM 1900 ANT1

7.11.1. Test Channel = High

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1359.7950	20.56	-49.70	-25.00	24.70	Horizontal
2	2493.4367	20.88	-45.80	-25.00	20.80	Horizontal
3	4746.8373	50.96	-59.57	-25.00	34.57	Horizontal
4	7888.7444	49.04	-52.99	-25.00	27.99	Horizontal
5	11350.9175	46.07	-49.53	-25.00	24.53	Horizontal
6	17983.499	48.45	-45.08	-25.00	20.08	Horizontal



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7.12. Test Band = _GSM 1900 ANT1

7.12.1. Test Channel = High

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1338.2923	20.62	-49.85	-25.00	24.85	Vertical
2	2476.6846	21.03	-45.73	-25.00	20.73	Vertical
3	5568.1284	49.98	-57.93	-25.00	32.93	Vertical
4	8531.5266	47.91	-52.43	-25.00	27.43	Vertical
5	12400.970	46.53	-47.64	-25.00	22.64	Vertical
6	17987.999	48.27	-45.36	-25.00	20.36	Vertical



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7.13. Test Band = _GSM 850 ANT3

7.13.1. Test Channel = Low

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1261.2827	20.45	-49.91	-25.00	24.91	Horizontal
2	2337.6672	20.96	-46.49	-25.00	21.49	Horizontal
3	6042.1521	49.31	-57.23	-25.00	32.23	Horizontal
4	9511.8256	47.55	-51.13	-25.00	26.13	Horizontal
5	13020.501	45.72	-46.85	-25.00	21.85	Horizontal
6	17988.749	48.31	-45.33	-25.00	20.33	Horizontal



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7.14. Test Band = _GSM 850 ANT3

7.14.1. Test Channel = Low

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1510.3138	20.32	-49.50	-25.00	24.50	Vertical
2	2335.6670	21.08	-46.40	-25.00	21.40	Vertical
3	4761.8381	50.56	-59.99	-25.00	34.99	Vertical
4	6504.9252	49.03	-55.42	-25.00	30.42	Vertical
5	9012.3006	47.52	-51.45	-25.00	26.45	Vertical
6	13356.517	45.58	-47.19	-25.00	22.19	Vertical



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7.15. Test Band = _GSM 850 ANT3

7.15.1. Test Channel = Mid

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1440.8051	20.48	-49.54	-25.00	24.54	Horizontal
2	2346.1683	21.14	-46.32	-25.00	21.32	Horizontal
3	4599.0800	51.17	-60.32	-25.00	35.32	Horizontal
4	7471.7236	48.82	-53.44	-25.00	28.44	Horizontal
5	11125.9063	46.02	-49.79	-25.00	24.79	Horizontal
6	17911.4956	47.28	-45.68	-25.00	20.68	Horizontal



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7.16. Test Band = _GSM 850 ANT3

7.16.1. Test Channel = Mid

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1261.0326	20.59	-49.76	-25.00	24.76	Vertical
2	2400.9251	20.77	-46.09	-25.00	21.09	Vertical
3	4860.8430	50.53	-59.87	-25.00	34.87	Vertical
4	9016.8008	47.37	-51.62	-25.00	26.62	Vertical
5	13013.000	45.84	-46.69	-25.00	21.69	Vertical
6	17988.749	47.96	-45.68	-25.00	20.68	Vertical



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7.17. Test Band = _GSM 850 ANT3

7.17.1. Test Channel = High

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1385.7982	20.61	-49.64	-25.00	24.64	Horizontal
2	2409.6762	20.80	-46.17	-25.00	21.17	Horizontal
3	5171.3586	49.79	-59.46	-25.00	34.46	Horizontal
4	7474.7237	48.67	-53.57	-25.00	28.57	Horizontal
5	11156.6578	46.88	-48.67	-25.00	23.67	Horizontal
6	17993.249	48.30	-45.44	-25.00	20.44	Horizontal



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7.18. Test Band = _GSM 850 ANT3

7.18.1. Test Channel = High

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1471.8090	20.62	-49.46	-25.00	24.46	Vertical
2	2487.6860	21.36	-45.40	-25.00	20.40	Vertical
3	4960.5980	50.29	-59.36	-25.00	34.36	Vertical
4	6996.9498	48.83	-54.76	-25.00	29.76	Vertical
5	10112.6056	46.43	-51.25	-25.00	26.25	Vertical
6	17910.745	47.46	-45.50	-25.00	20.50	Vertical



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7.19. Test Band = _GSM 1900 ANT4

7.19.1. Test Channel = Low

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1530.0663	20.58	-49.24	-25.00	24.24	Horizontal
2	2928.7411	21.13	-43.60	-25.00	18.60	Horizontal
3	4602.0801	51.60	-59.89	-25.00	34.89	Horizontal
4	6044.4022	49.41	-57.11	-25.00	32.11	Horizontal
5	10071.353	47.41	-50.42	-25.00	25.42	Horizontal
6	17915.995	47.22	-45.72	-25.00	20.72	Horizontal



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7.20. Test Band = _GSM 1900 ANT4

7.20.1. Test Channel = Low

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1507.5634	20.53	-49.36	-25.00	24.36	Vertical
2	3000.0000	20.66	-43.79	-25.00	18.79	Vertical
3	5698.6349	49.67	-57.13	-25.00	32.13	Vertical
4	7487.4744	48.69	-53.44	-25.00	28.44	Vertical
5	10604.630	46.56	-50.29	-25.00	25.29	Vertical
6	17986.499	47.90	-45.70	-25.00	20.70	Vertical



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7.21. Test Band = _GSM 1900 ANT4

7.21.1. Test Channel = Mid

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1258.2823	20.70	-49.69	-25.00	24.69	Horizontal
2	2629.7037	21.64	-44.64	-25.00	19.64	Horizontal
3	5599.6300	49.87	-58.07	-25.00	33.07	Horizontal
4	10036.101	47.07	-50.94	-25.00	25.94	Horizontal
5	16397.919	47.31	-46.47	-25.00	21.47	Horizontal
6	17995.499	48.02	-45.77	-25.00	20.77	Horizontal



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7.22. Test Band = _GSM 1900 ANT4

7.22.1. Test Channel = Mid

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1150.0188	20.53	-49.65	-25.00	24.65	Vertical
2	2696.4621	20.95	-44.86	-25.00	19.86	Vertical
3	4521.0761	51.55	-60.26	-25.00	35.26	Vertical
4	6519.9260	49.01	-55.76	-25.00	30.76	Vertical
5	10637.631	46.55	-50.30	-25.00	25.30	Vertical
6	16414.420	47.01	-46.99	-25.00	21.99	Vertical



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7.23. Test Band = _GSM 1900 ANT4

7.23.1. Test Channel = High

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1384.7981	20.36	-49.88	-25.00	24.88	Horizontal
2	2401.9252	20.92	-45.95	-25.00	20.95	Horizontal
3	4649.3325	50.97	-60.60	-25.00	35.60	Horizontal
4	7471.7236	49.32	-52.94	-25.00	27.94	Horizontal
5	12416.720	45.70	-48.33	-25.00	23.33	Horizontal
6	17994.749	48.21	-45.56	-25.00	20.56	Horizontal



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7.24. Test Band = _GSM 1900 ANT4

7.24.1. Test Channel = High

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1388.2985	20.33	-49.95	-25.00	24.95	Vertical
2	2612.7016	20.60	-45.76	-25.00	20.76	Vertical
3	5616.8808	50.55	-57.21	-25.00	32.21	Vertical
4	8568.2784	47.59	-52.62	-25.00	27.62	Vertical
5	11921.6961	45.78	-48.68	-25.00	23.68	Vertical
6	16872.693	46.24	-47.63	-25.00	22.63	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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3)

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	-2.39	-0.002900	±2.5	PASS
GSM850	128	VN	NT	-4.46	-0.005411	±2.5	PASS
GSM850	128	VH	NT	-6.01	-0.007292	±2.5	PASS
GSM850	190	VL	NT	-0.90	-0.001076	±2.5	PASS
GSM850	190	VN	NT	-2.58	-0.003084	±2.5	PASS
GSM850	190	VH	NT	-2.52	-0.003012	±2.5	PASS
GSM850	251	VL	NT	-2.39	-0.002816	±2.5	PASS
GSM850	251	VN	NT	-4.13	-0.004866	±2.5	PASS
GSM850	251	VH	NT	0.06	0.000071	±2.5	PASS
EGPRS850	128	VL	NT	2.87	0.003482	±2.5	PASS
EGPRS850	128	VN	NT	2.68	0.003252	±2.5	PASS
EGPRS850	128	VH	NT	1.29	0.001565	±2.5	PASS
EGPRS850	190	VL	NT	-1.39	-0.001661	±2.5	PASS
EGPRS850	190	VN	NT	-1.42	-0.001697	±2.5	PASS
EGPRS850	190	VH	NT	-0.10	-0.000120	±2.5	PASS
EGPRS850	251	VL	NT	1.78	0.002097	±2.5	PASS
EGPRS850	251	VN	NT	0.55	0.000648	±2.5	PASS
EGPRS850	251	VH	NT	2.52	0.002969	±2.5	PASS
GSM1900	512	VL	NT	-4.26	-0.002302	±2.5	PASS
GSM1900	512	VN	NT	-6.65	-0.003594	±2.5	PASS
GSM1900	512	VH	NT	-6.39	-0.003454	±2.5	PASS
GSM1900	661	VL	NT	-3.75	-0.001995	±2.5	PASS
GSM1900	661	VN	NT	-8.59	-0.004569	±2.5	PASS
GSM1900	661	VH	NT	-4.84	-0.002574	±2.5	PASS
GSM1900	810	VL	NT	-8.07	-0.004226	±2.5	PASS
GSM1900	810	VN	NT	-10.40	-0.005446	±2.5	PASS
GSM1900	810	VH	NT	-4.65	-0.002435	±2.5	PASS



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EGPRS1900	512	VL	NT	-8.14	-0.004400	±2.5	PASS
EGPRS1900	512	VN	NT	-10.62	-0.005740	±2.5	PASS
EGPRS1900	512	VH	NT	-11.91	-0.006437	±2.5	PASS
EGPRS1900	661	VL	NT	-9.52	-0.005064	±2.5	PASS
EGPRS1900	661	VN	NT	-8.39	-0.004463	±2.5	PASS
EGPRS1900	661	VH	NT	-9.46	-0.005032	±2.5	PASS
EGPRS1900	810	VL	NT	-6.88	-0.003602	±2.5	PASS
EGPRS1900	810	VN	NT	-8.88	-0.004650	±2.5	PASS
EGPRS1900	810	VH	NT	-8.23	-0.004309	±2.5	PASS



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8.2.Frequency Error Vs Temperature

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	-4.46	-0.005411	±2.5	PASS
GSM850	128	NV	-20	-6.01	-0.007292	±2.5	PASS
GSM850	128	NV	-10	-1.87	-0.002269	±2.5	PASS
GSM850	128	NV	0	-3.49	-0.004234	±2.5	PASS
GSM850	128	NV	10	-4.46	-0.005411	±2.5	PASS
GSM850	128	NV	20	-3.03	-0.003676	±2.5	PASS
GSM850	128	NV	30	-1.81	-0.002196	±2.5	PASS
GSM850	128	NV	40	-5.62	-0.006819	±2.5	PASS
GSM850	128	NV	50	-3.49	-0.004234	±2.5	PASS
GSM850	190	NV	-30	-5.23	-0.006251	±2.5	PASS
GSM850	190	NV	-20	-2.26	-0.002701	±2.5	PASS
GSM850	190	NV	-10	-5.94	-0.007100	±2.5	PASS
GSM850	190	NV	0	-3.42	-0.004088	±2.5	PASS
GSM850	190	NV	10	-4.97	-0.005941	±2.5	PASS
GSM850	190	NV	20	-2.97	-0.003550	±2.5	PASS
GSM850	190	NV	30	-7.49	-0.008953	±2.5	PASS
GSM850	190	NV	40	-3.68	-0.004399	±2.5	PASS
GSM850	190	NV	50	-6.33	-0.007566	±2.5	PASS
GSM850	251	NV	-30	-4.78	-0.005631	±2.5	PASS
GSM850	251	NV	-20	-5.29	-0.006232	±2.5	PASS
GSM850	251	NV	-10	-3.29	-0.003876	±2.5	PASS
GSM850	251	NV	0	-5.49	-0.006468	±2.5	PASS
GSM850	251	NV	10	-3.94	-0.004642	±2.5	PASS
GSM850	251	NV	20	-1.94	-0.002286	±2.5	PASS
GSM850	251	NV	30	-9.69	-0.011416	±2.5	PASS
GSM850	251	NV	40	-8.33	-0.009814	±2.5	PASS
GSM850	251	NV	50	-2.97	-0.003499	±2.5	PASS
EGPRS850	128	NV	-30	2.10	0.002548	±2.5	PASS
EGPRS850	128	NV	-20	2.23	0.002706	±2.5	PASS
EGPRS850	128	NV	-10	8.52	0.010337	±2.5	PASS



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EGPRS850	128	NV	0	7.26	0.008809	±2.5	PASS
EGPRS850	128	NV	10	7.62	0.009245	±2.5	PASS
EGPRS850	128	NV	20	6.23	0.007559	±2.5	PASS
EGPRS850	128	NV	30	6.36	0.007717	±2.5	PASS
EGPRS850	128	NV	40	-999	-1.212084	±2.5	PASS
EGPRS850	128	NV	50	0.68	0.000825	±2.5	PASS
EGPRS850	190	NV	-30	1.26	0.001506	±2.5	PASS
EGPRS850	190	NV	-20	-1.32	-0.001578	±2.5	PASS
EGPRS850	190	NV	-10	-11.62	-0.013890	±2.5	PASS
EGPRS850	190	NV	0	-12.82	-0.015324	±2.5	PASS
EGPRS850	190	NV	10	-9.78	-0.011690	±2.5	PASS
EGPRS850	190	NV	20	-8.91	-0.010650	±2.5	PASS
EGPRS850	190	NV	30	-7.30	-0.008726	±2.5	PASS
EGPRS850	190	NV	40	-5.71	-0.006825	±2.5	PASS
EGPRS850	190	NV	50	-5.33	-0.006371	±2.5	PASS
EGPRS850	251	NV	-30	-0.48	-0.000566	±2.5	PASS
EGPRS850	251	NV	-20	2.62	0.003087	±2.5	PASS
EGPRS850	251	NV	-10	-4.23	-0.004984	±2.5	PASS
EGPRS850	251	NV	0	-2.81	-0.003311	±2.5	PASS
EGPRS850	251	NV	10	-4.49	-0.005290	±2.5	PASS
EGPRS850	251	NV	20	-6.10	-0.007187	±2.5	PASS
EGPRS850	251	NV	30	-0.97	-0.001143	±2.5	PASS
EGPRS850	251	NV	40	-3.07	-0.003617	±2.5	PASS
EGPRS850	251	NV	50	-1.13	-0.001331	±2.5	PASS
GSM1900	512	NV	-30	-2.65	-0.001432	±2.5	PASS
GSM1900	512	NV	-20	-1.03	-0.000557	±2.5	PASS
GSM1900	512	NV	-10	-6.59	-0.003562	±2.5	PASS
GSM1900	512	NV	0	9.56	0.005167	±2.5	PASS
GSM1900	512	NV	10	3.55	0.001919	±2.5	PASS
GSM1900	512	NV	20	5.81	0.003140	±2.5	PASS
GSM1900	512	NV	30	11.75	0.006351	±2.5	PASS
GSM1900	512	NV	40	5.36	0.002897	±2.5	PASS
GSM1900	512	NV	50	0.58	0.000313	±2.5	PASS
GSM1900	661	NV	-30	-3.55	-0.001888	±2.5	PASS



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GSM1900	661	NV	-20	-5.10	-0.002713	±2.5	PASS
GSM1900	661	NV	-10	-3.81	-0.002027	±2.5	PASS
GSM1900	661	NV	0	-7.36	-0.003915	±2.5	PASS
GSM1900	661	NV	10	-4.00	-0.002128	±2.5	PASS
GSM1900	661	NV	20	-5.42	-0.002883	±2.5	PASS
GSM1900	661	NV	30	-4.65	-0.002473	±2.5	PASS
GSM1900	661	NV	40	-0.65	-0.000346	±2.5	PASS
GSM1900	661	NV	50	-6.59	-0.003505	±2.5	PASS
GSM1900	810	NV	-30	-5.88	-0.003079	±2.5	PASS
GSM1900	810	NV	-20	-4.78	-0.002503	±2.5	PASS
GSM1900	810	NV	-10	-5.68	-0.002974	±2.5	PASS
GSM1900	810	NV	0	-11.62	-0.006084	±2.5	PASS
GSM1900	810	NV	10	-14.21	-0.007441	±2.5	PASS
GSM1900	810	NV	20	-12.53	-0.006561	±2.5	PASS
GSM1900	810	NV	30	-5.81	-0.003042	±2.5	PASS
GSM1900	810	NV	40	-10.33	-0.005409	±2.5	PASS
GSM1900	810	NV	50	-13.75	-0.007200	±2.5	PASS
EGPRS1900	512	NV	-30	-10.40	-0.005621	±2.5	PASS
EGPRS1900	512	NV	-20	-10.98	-0.005934	±2.5	PASS
EGPRS1900	512	NV	-10	7.85	0.004243	±2.5	PASS
EGPRS1900	512	NV	0	13.69	0.007399	±2.5	PASS
EGPRS1900	512	NV	10	10.91	0.005897	±2.5	PASS
EGPRS1900	512	NV	20	13.37	0.007226	±2.5	PASS
EGPRS1900	512	NV	30	4.33	0.002340	±2.5	PASS
EGPRS1900	512	NV	40	6.75	0.003648	±2.5	PASS
EGPRS1900	512	NV	50	0.32	0.000173	±2.5	PASS
EGPRS1900	661	NV	-30	-9.62	-0.005117	±2.5	PASS
EGPRS1900	661	NV	-20	-10.40	-0.005532	±2.5	PASS
EGPRS1900	661	NV	-10	-2.03	-0.001080	±2.5	PASS
EGPRS1900	661	NV	0	-3.42	-0.001819	±2.5	PASS
EGPRS1900	661	NV	10	0.61	0.000324	±2.5	PASS
EGPRS1900	661	NV	20	-3.71	-0.001973	±2.5	PASS
EGPRS1900	661	NV	30	-6.72	-0.003574	±2.5	PASS
EGPRS1900	661	NV	40	-4.81	-0.002559	±2.5	PASS



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EGPRS1900	661	NV	50	-6.75	-0.003590	±2.5	PASS
EGPRS1900	810	NV	-30	-7.59	-0.003974	±2.5	PASS
EGPRS1900	810	NV	-20	-8.30	-0.004346	±2.5	PASS
EGPRS1900	810	NV	-10	-8.88	-0.004650	±2.5	PASS
EGPRS1900	810	NV	0	-5.97	-0.003126	±2.5	PASS
EGPRS1900	810	NV	10	-2.49	-0.001304	±2.5	PASS
EGPRS1900	810	NV	20	-4.62	-0.002419	±2.5	PASS
EGPRS1900	810	NV	30	-11.95	-0.006257	±2.5	PASS
EGPRS1900	810	NV	40	-6.39	-0.003346	±2.5	PASS
EGPRS1900	810	NV	50	-5.39	-0.002822	±2.5	PASS

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