



Appendix B

GSM 850 & 1900



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1. Effective (Isotropic) Radiated Power Output Data

1.1. Test Result

Down Antenna:

Band	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	32.12	29.37	38.45	PASS
GSM850	190	---	32.21	29.46	38.45	PASS
GSM850	251	---	32.43	29.68	38.45	PASS
EGPRS850	128	1	27.27	24.52	38.45	PASS
EGPRS850	128	2	24.42	21.67	38.45	PASS
EGPRS850	128	3	22.46	19.71	38.45	PASS
EGPRS850	128	4	20.84	18.09	38.45	PASS
EGPRS850	190	1	27.47	24.72	38.45	PASS
EGPRS850	190	2	24.58	21.83	38.45	PASS
EGPRS850	190	3	22.62	19.87	38.45	PASS
EGPRS850	190	4	21.10	18.35	38.45	PASS
EGPRS850	251	1	27.57	24.82	38.45	PASS
EGPRS850	251	2	24.68	21.93	38.45	PASS
EGPRS850	251	3	22.56	19.81	38.45	PASS
EGPRS850	251	4	21.17	18.42	38.45	PASS

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	29.89	24.49	33.00	PASS
GSM1900	661	---	29.83	24.43	33.00	PASS
GSM1900	810	---	29.75	24.35	33.00	PASS
EGPRS1900	512	1	26.09	20.69	33.00	PASS
EGPRS1900	512	2	24.03	18.63	33.00	PASS
EGPRS1900	512	3	21.72	16.32	33.00	PASS
EGPRS1900	512	4	20.74	15.34	33.00	PASS
EGPRS1900	661	1	25.82	20.42	33.00	PASS
EGPRS1900	661	2	23.65	18.25	33.00	PASS
EGPRS1900	661	3	21.42	16.02	33.00	PASS
EGPRS1900	661	4	20.51	15.11	33.00	PASS
EGPRS1900	810	1	25.64	20.24	33.00	PASS
EGPRS1900	810	2	23.25	17.85	33.00	PASS
EGPRS1900	810	3	21.15	15.75	33.00	PASS
EGPRS1900	810	4	20.12	14.72	33.00	PASS



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Up Antenna:

Band	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	32.18	24.73	38.45	PASS
GSM850	190	---	32.30	24.85	38.45	PASS
GSM850	251	---	32.52	25.07	38.45	PASS
EGPRS850	128	1	27.05	19.6	38.45	PASS
EGPRS850	128	2	24.05	16.6	38.45	PASS
EGPRS850	128	3	22.07	14.62	38.45	PASS
EGPRS850	128	4	20.42	12.97	38.45	PASS
EGPRS850	190	1	27.28	19.83	38.45	PASS
EGPRS850	190	2	24.32	16.87	38.45	PASS
EGPRS850	190	3	22.21	14.76	38.45	PASS
EGPRS850	190	4	20.61	13.16	38.45	PASS
EGPRS850	251	1	27.34	19.89	38.45	PASS
EGPRS850	251	2	24.48	17.03	38.45	PASS
EGPRS850	251	3	22.27	14.82	38.45	PASS
EGPRS850	251	4	20.82	13.37	38.45	PASS

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	29.40	26.3	33.00	PASS
GSM1900	661	---	29.36	26.26	33.00	PASS
GSM1900	810	---	29.26	26.16	33.00	PASS
EGPRS1900	512	1	25.60	22.5	33.00	PASS
EGPRS1900	512	2	23.38	20.28	33.00	PASS
EGPRS1900	512	3	20.95	17.85	33.00	PASS
EGPRS1900	512	4	19.41	16.31	33.00	PASS
EGPRS1900	661	1	25.10	22	33.00	PASS
EGPRS1900	661	2	22.94	19.84	33.00	PASS
EGPRS1900	661	3	20.62	17.52	33.00	PASS
EGPRS1900	661	4	19.33	16.23	33.00	PASS
EGPRS1900	810	1	25.11	22.01	33.00	PASS
EGPRS1900	810	2	22.74	19.64	33.00	PASS
EGPRS1900	810	3	20.42	17.32	33.00	PASS
EGPRS1900	810	4	19.34	16.24	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

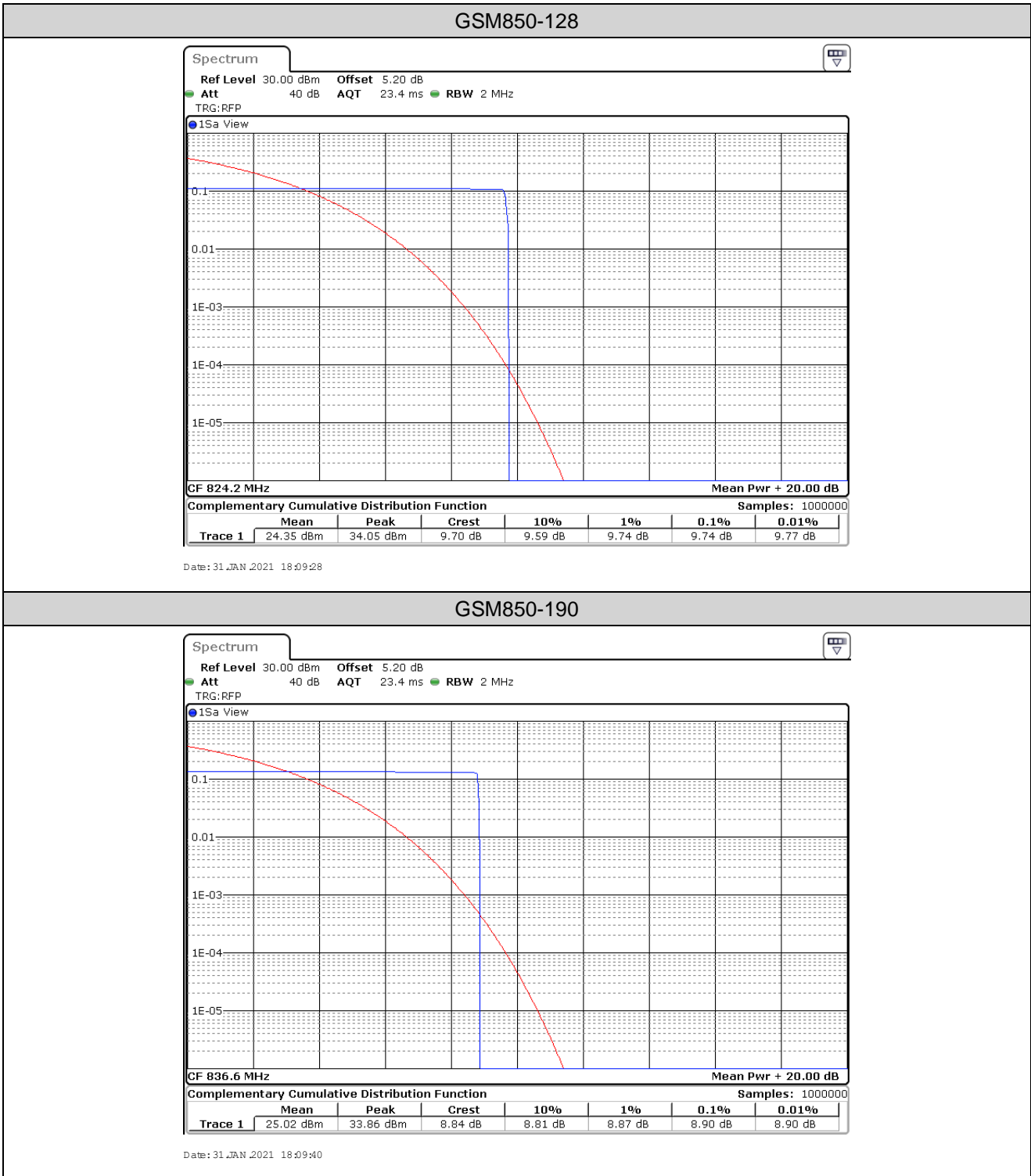
Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	9.74	13	PASS
GSM850	190	8.9	13	PASS
GSM850	251	9.74	13	PASS
EGPRS850	128	12.12	13	PASS
EGPRS850	190	11.97	13	PASS
EGPRS850	251	12	13	PASS
GSM1900	512	8.96	13	PASS
GSM1900	661	9.8	13	PASS
GSM1900	810	8.93	13	PASS
EGPRS1900	512	11.97	13	PASS
EGPRS1900	661	12.06	13	PASS
EGPRS1900	810	11.77	13	PASS

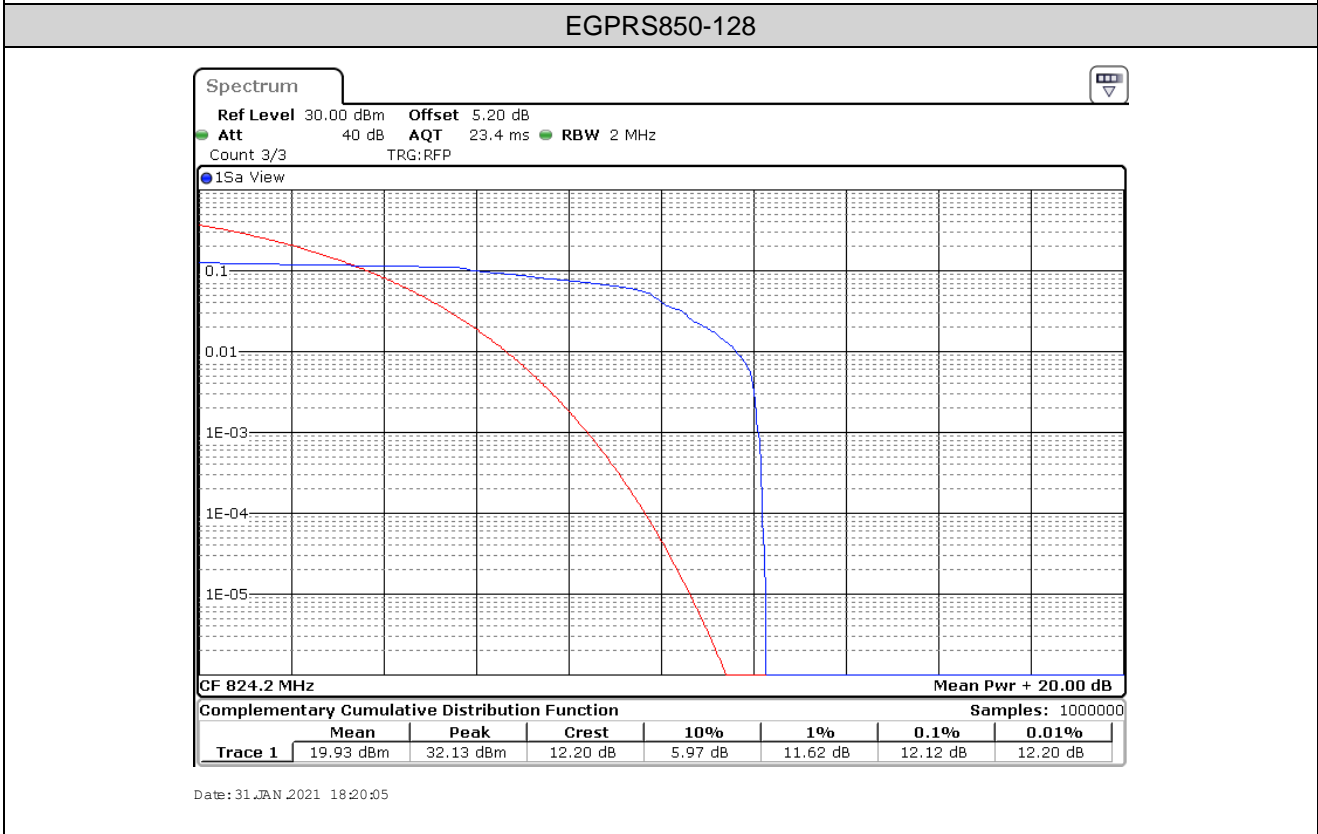
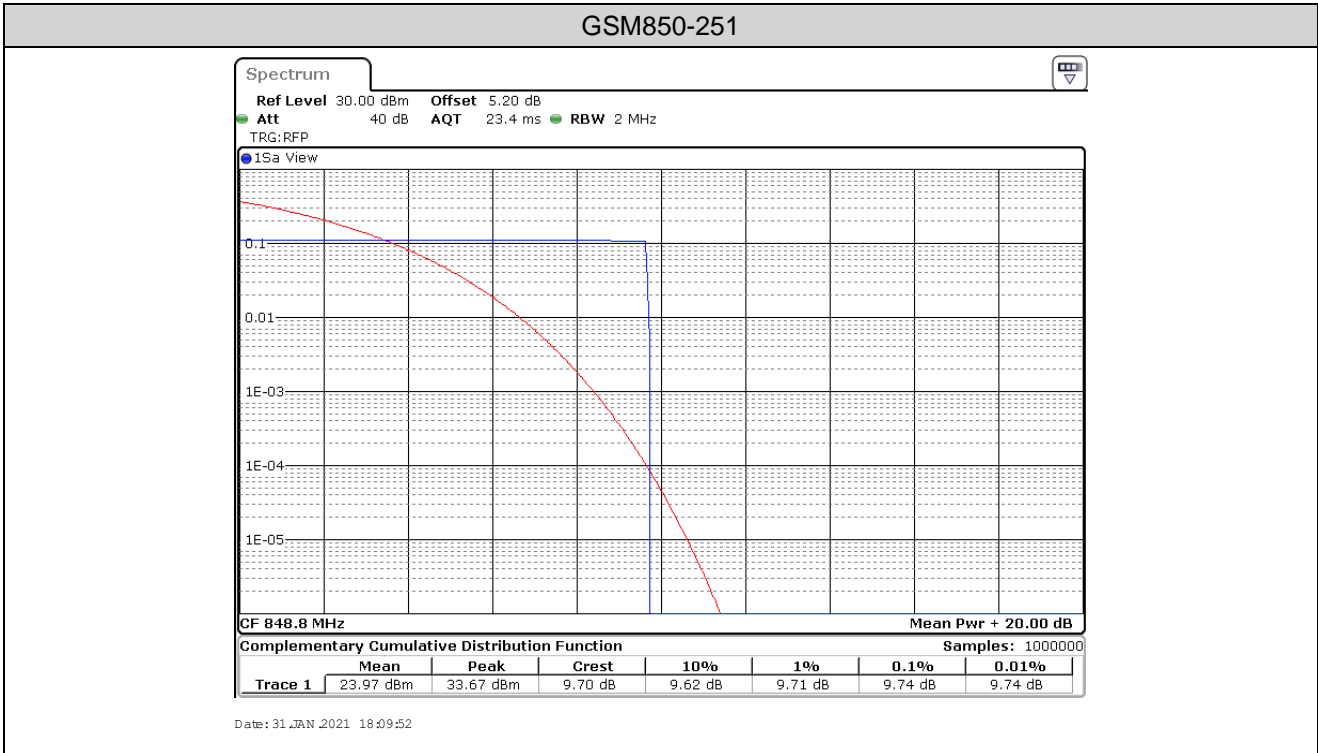


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2.2.Part II - Test Plots



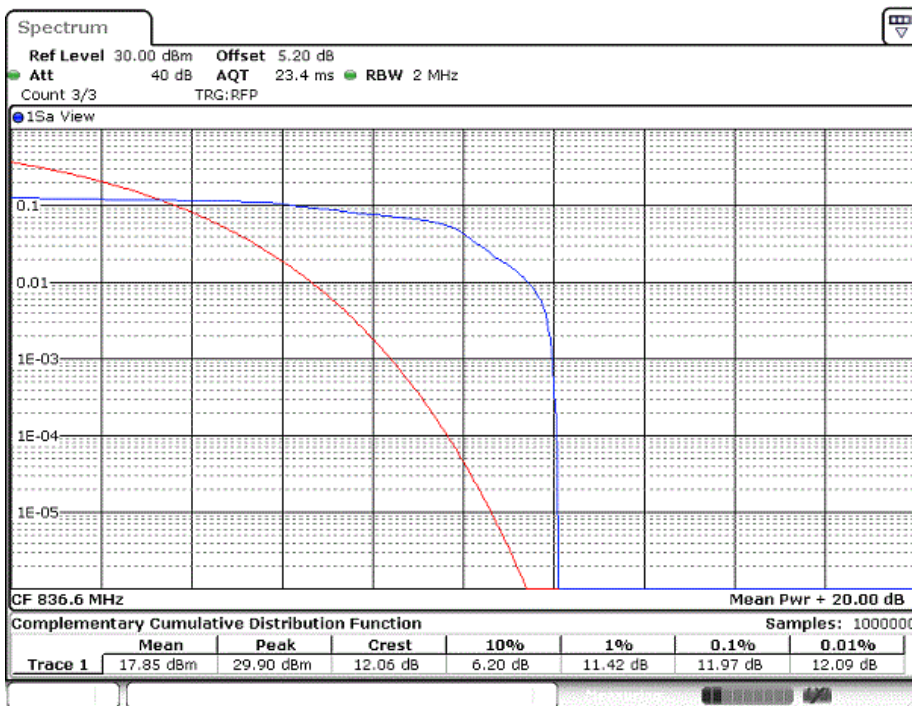


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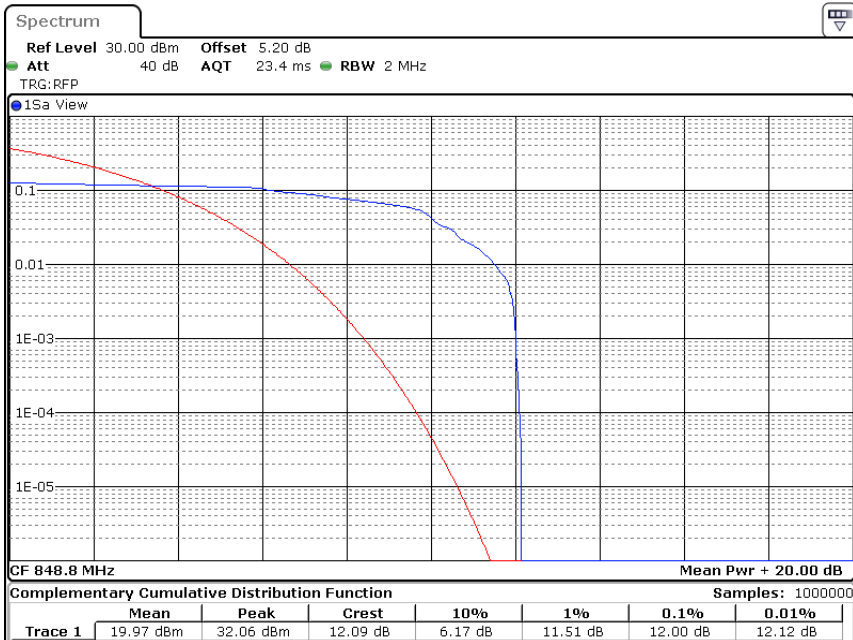


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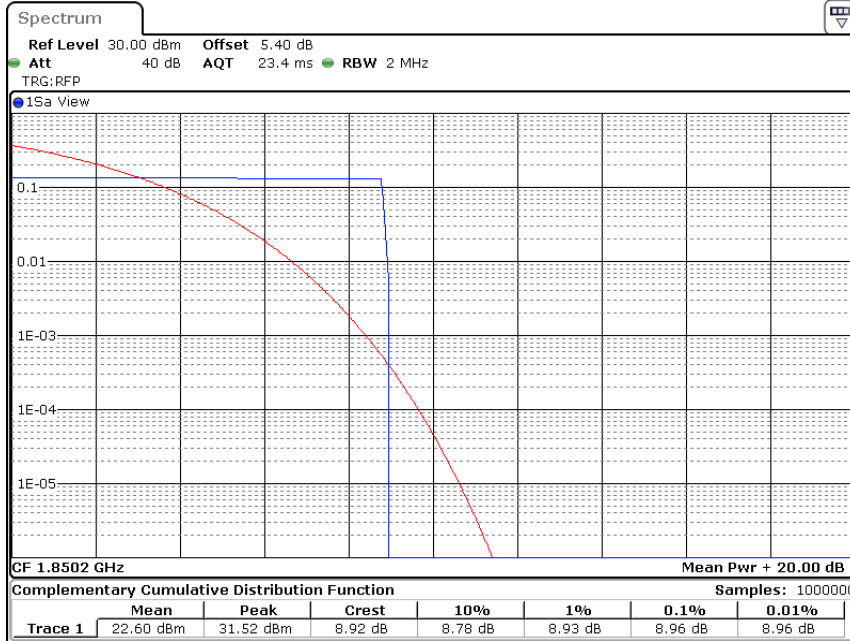


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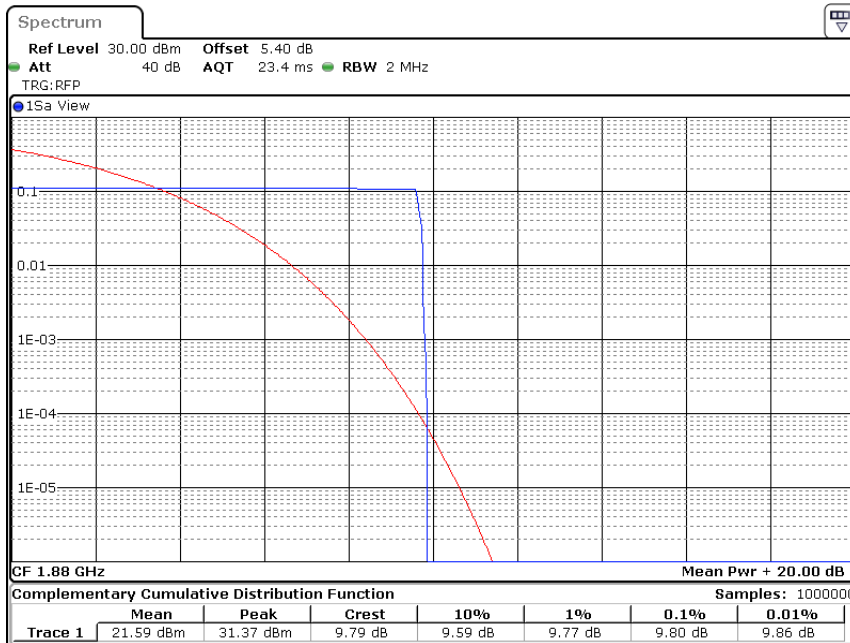
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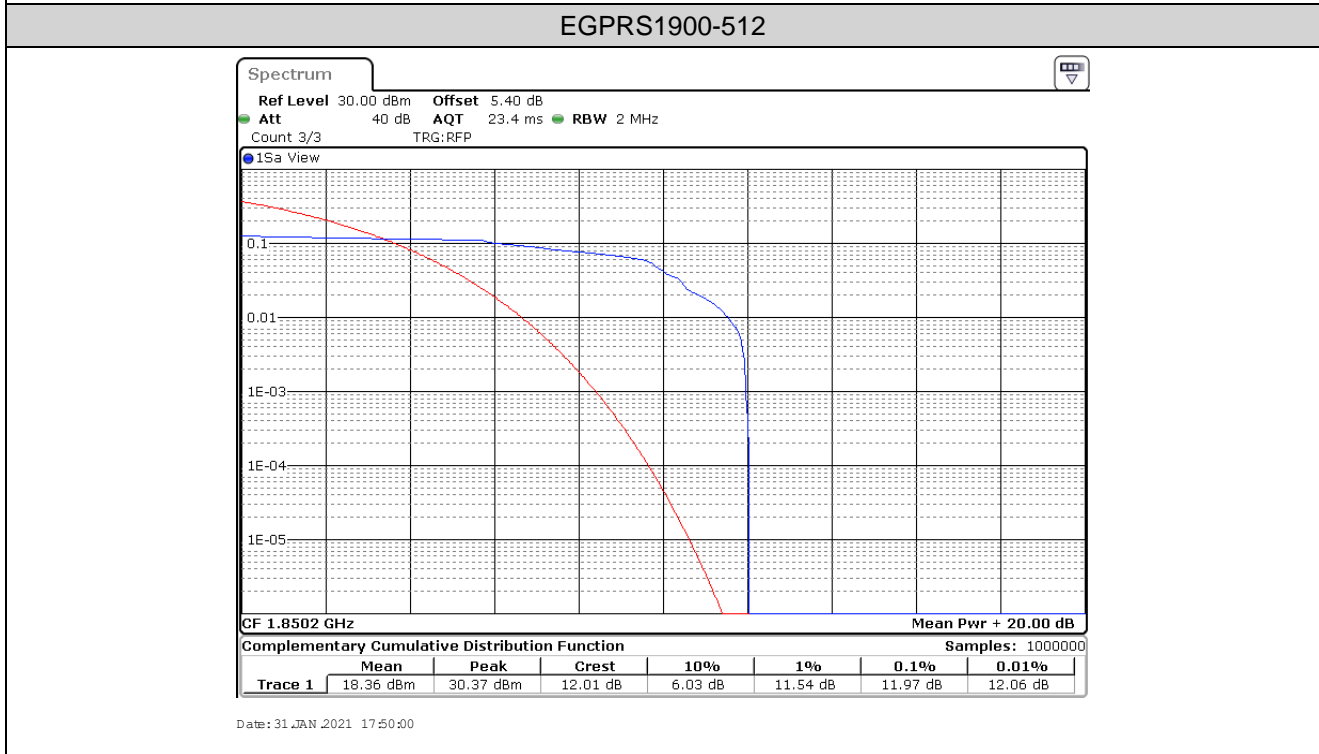
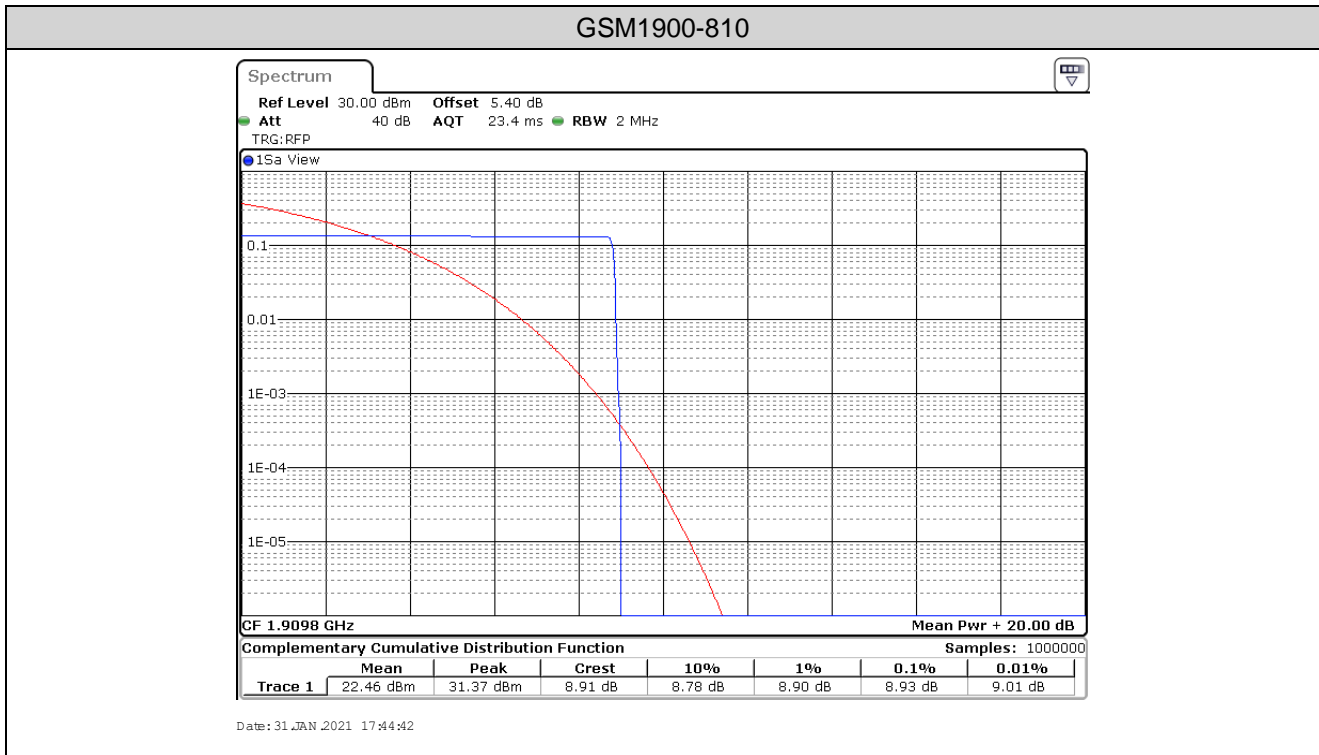
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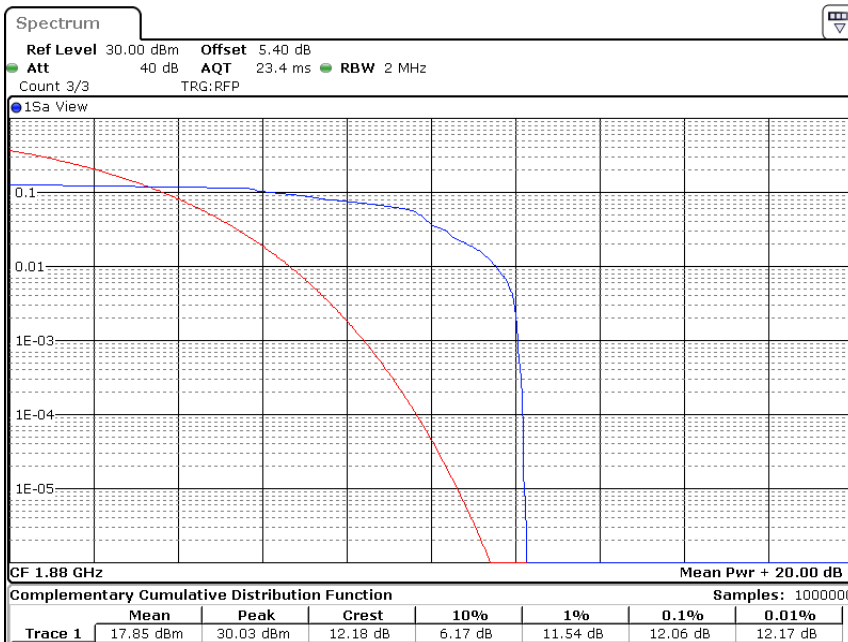


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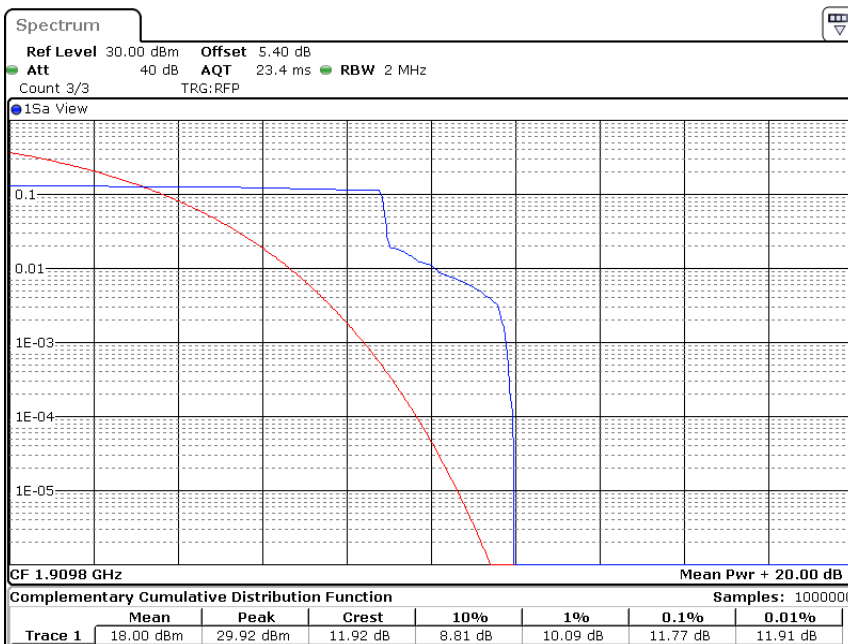
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EGPRS1900-810



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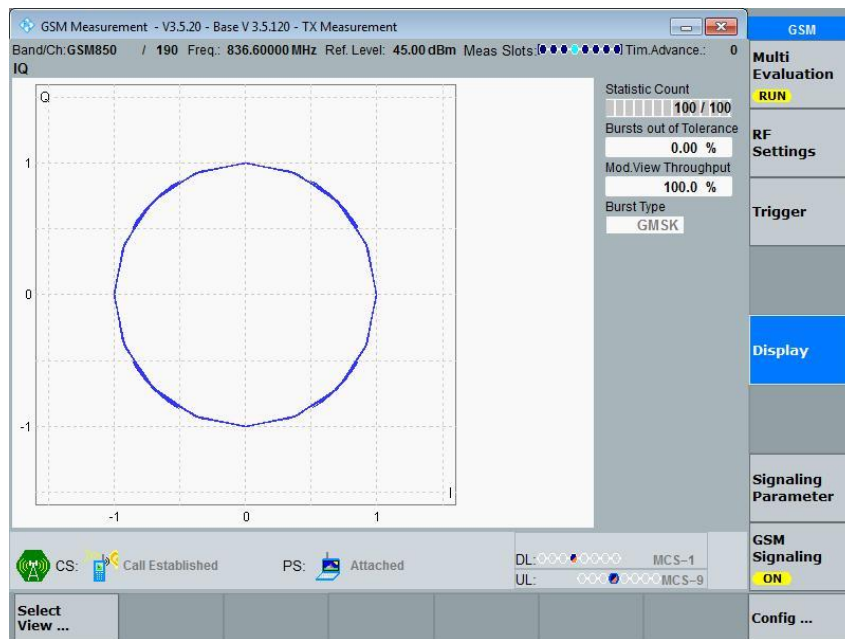
3. Modulation Characteristics

3.1. For GSM

3.1.1. Test Band = GSM 850

3.1.1.1. Test Mode = GSM/TM1

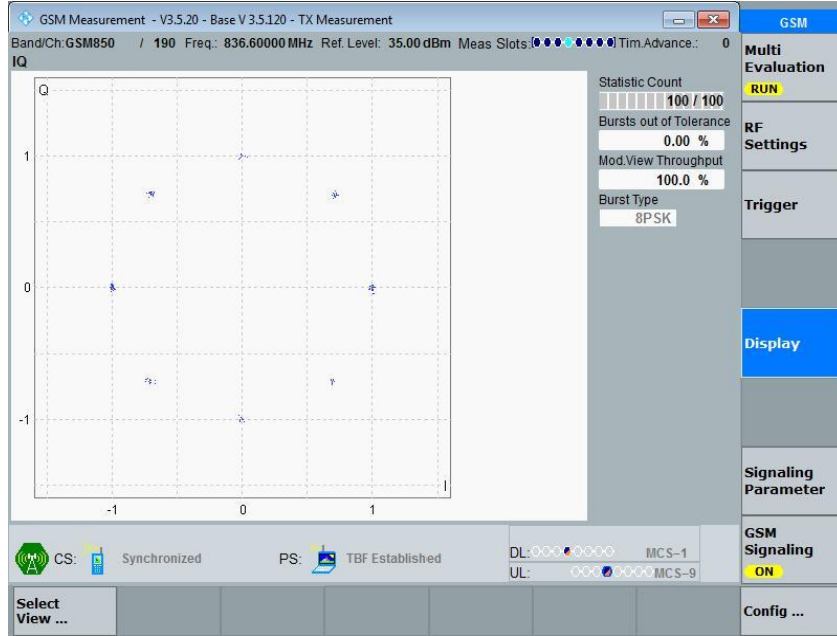
3.1.1.1.1. Test Channel = MCH



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3.1.1.2. Test Mode = GSM/TM2

3.1.1.2.1. Test Channel = MCH

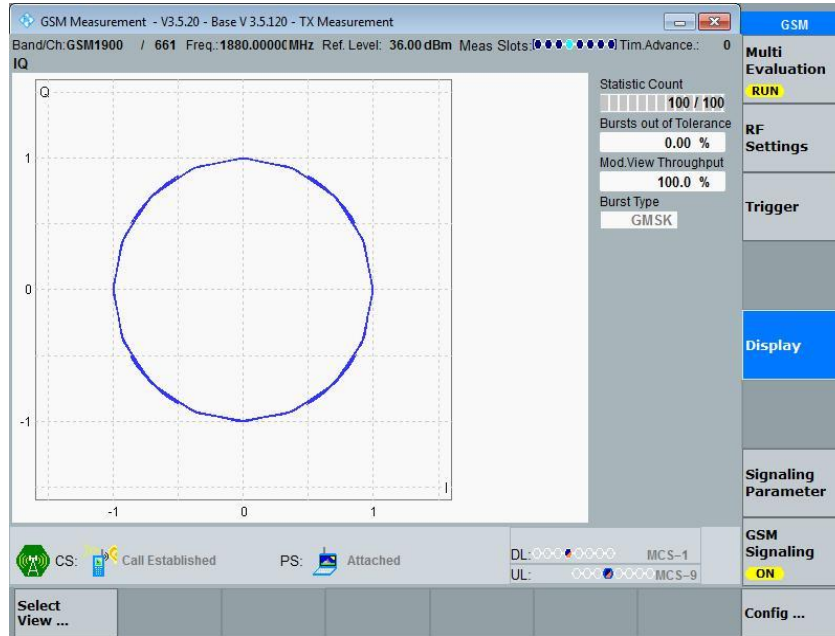


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3.1.2. Test Band = GSM 1900

3.1.2.1. Test Mode = GSM/TM1

3.1.2.1.1. Test Channel = MCH



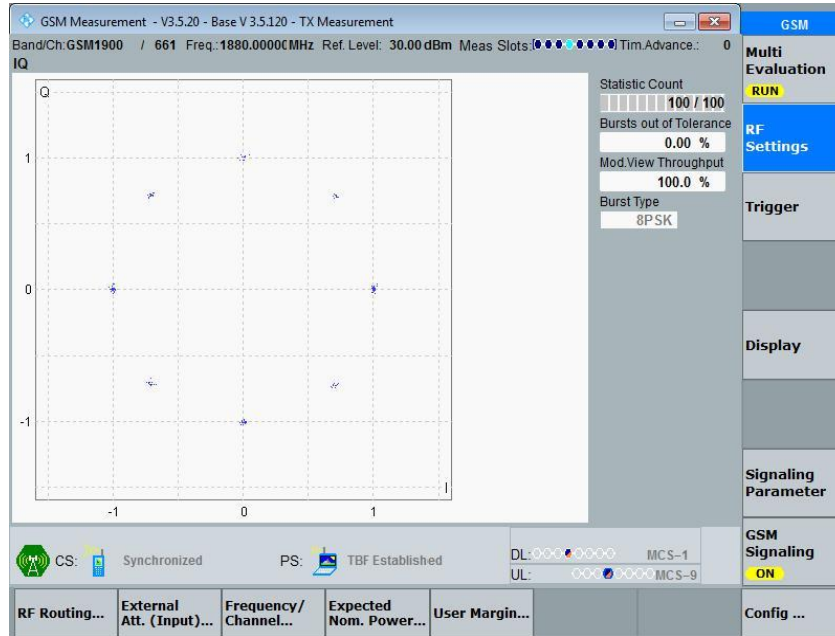
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3.1.2.2. Test Mode = GSM/TM2

3.1.2.2.1. Test Channel = MCH



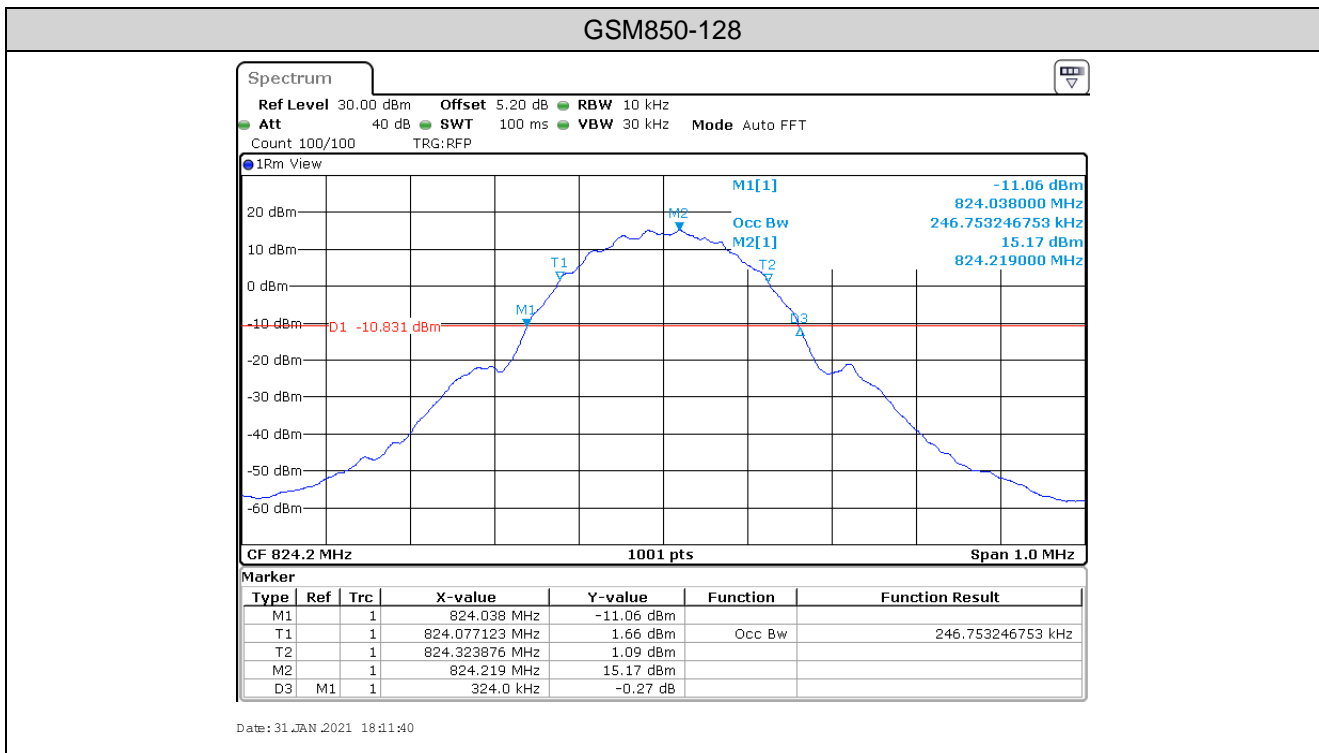
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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.247	0.324	---	PASS
GSM850	190	0.247	0.323	---	PASS
GSM850	251	0.247	0.323	---	PASS
EGPRS850	128	0.243	0.314	---	PASS
EGPRS850	190	0.245	0.318	---	PASS
EGPRS850	251	0.247	0.319	---	PASS
GSM1900	512	0.247	0.323	---	PASS
GSM1900	661	0.247	0.323	---	PASS
GSM1900	810	0.247	0.323	---	PASS
EGPRS1900	512	0.244	0.316	---	PASS
EGPRS1900	661	0.243	0.316	---	PASS
EGPRS1900	810	0.243	0.316	---	PASS

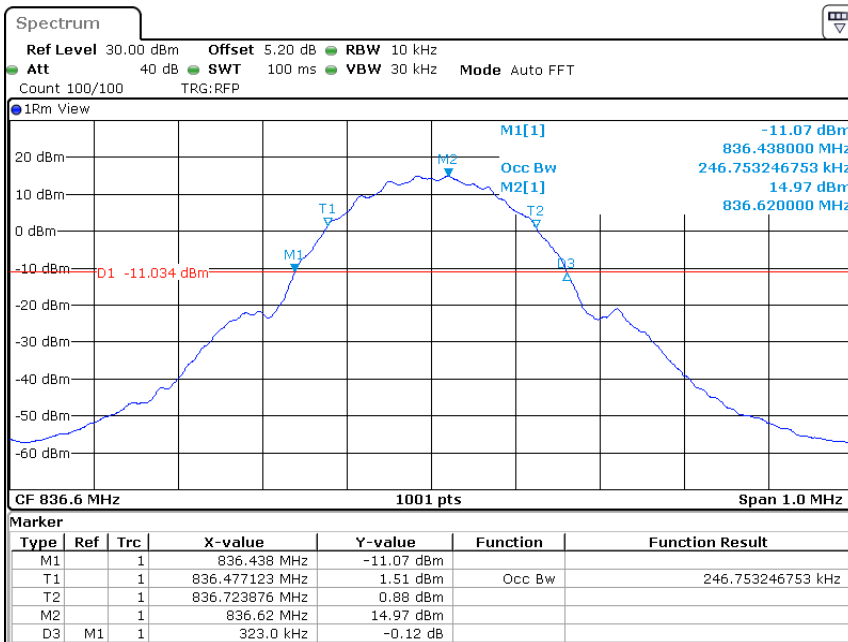
4.2. Test Plots



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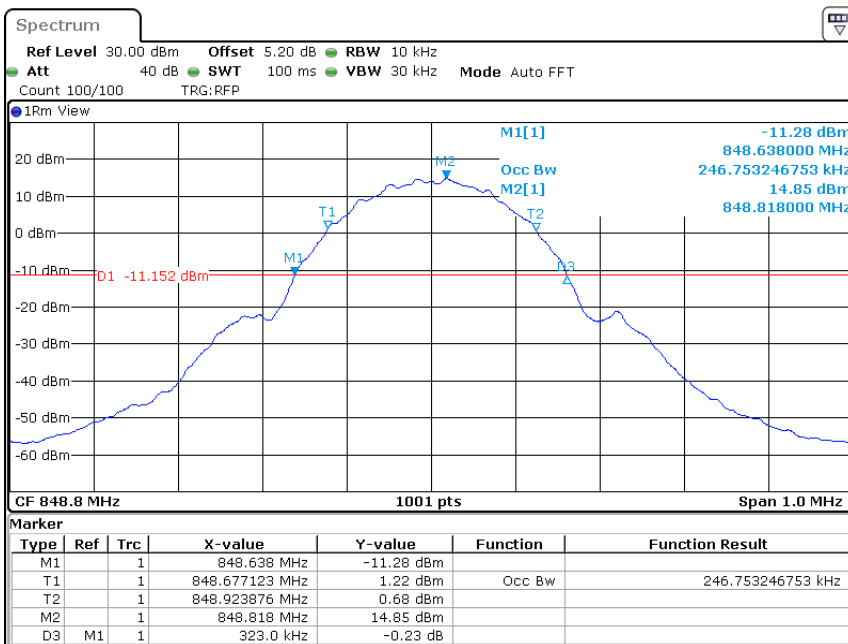
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GSM850-251



Date: 31 JAN 2021 18:12:22

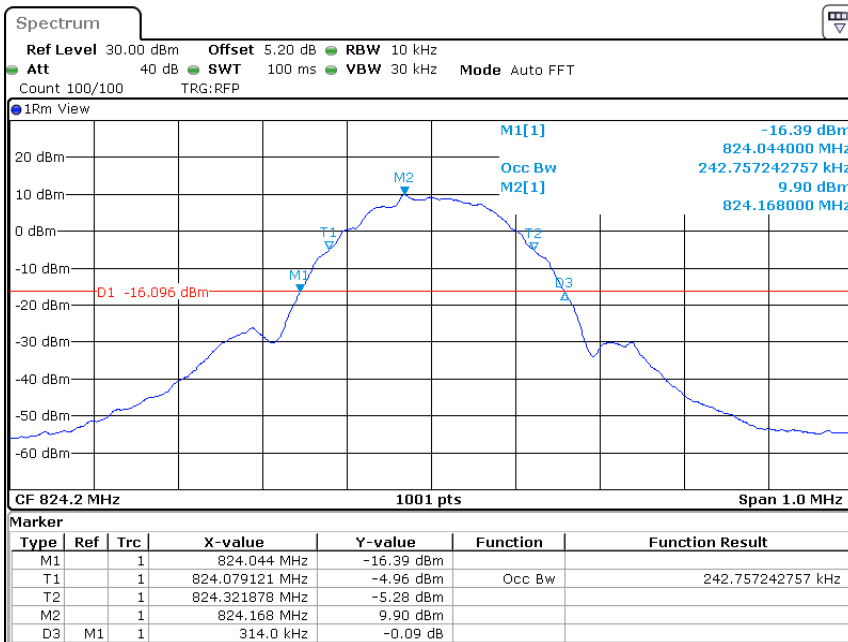


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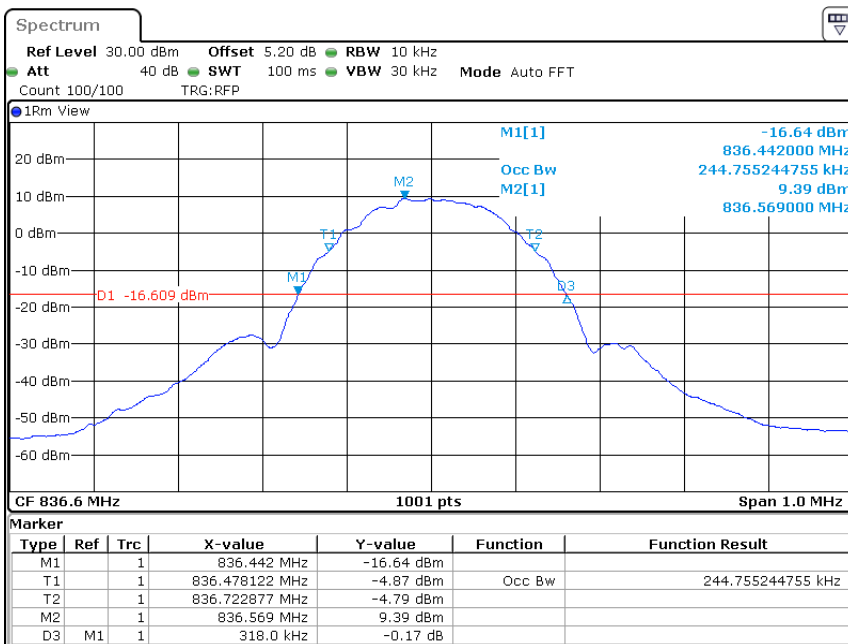
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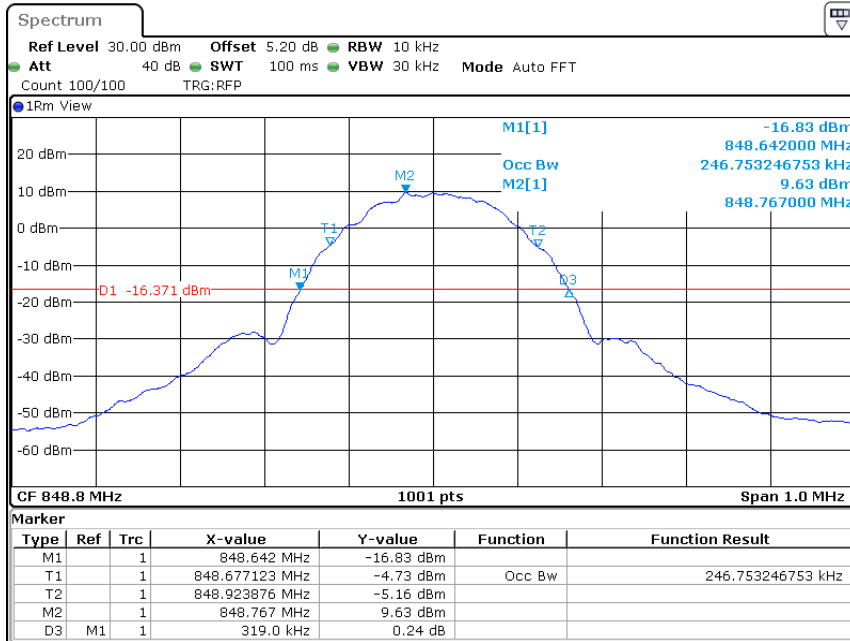


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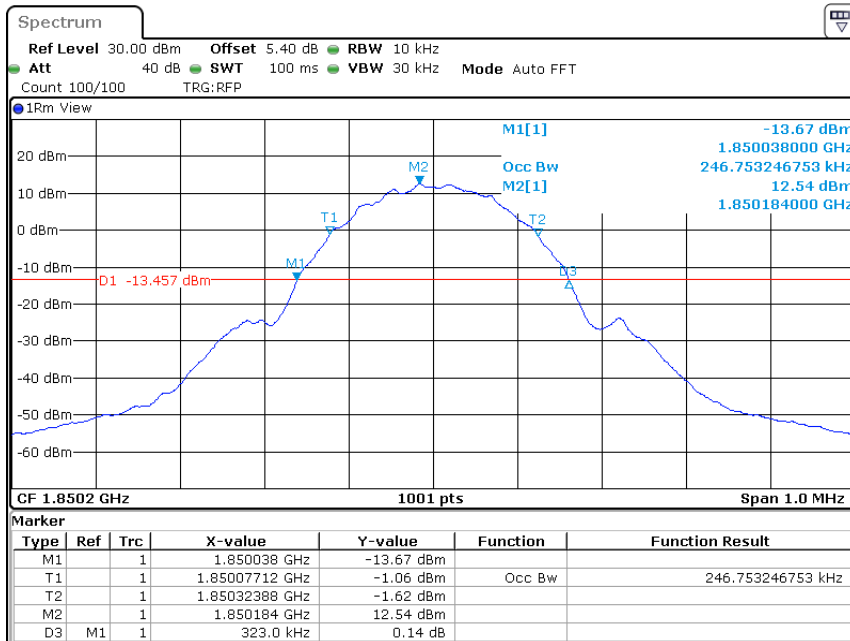
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GSM1900-512

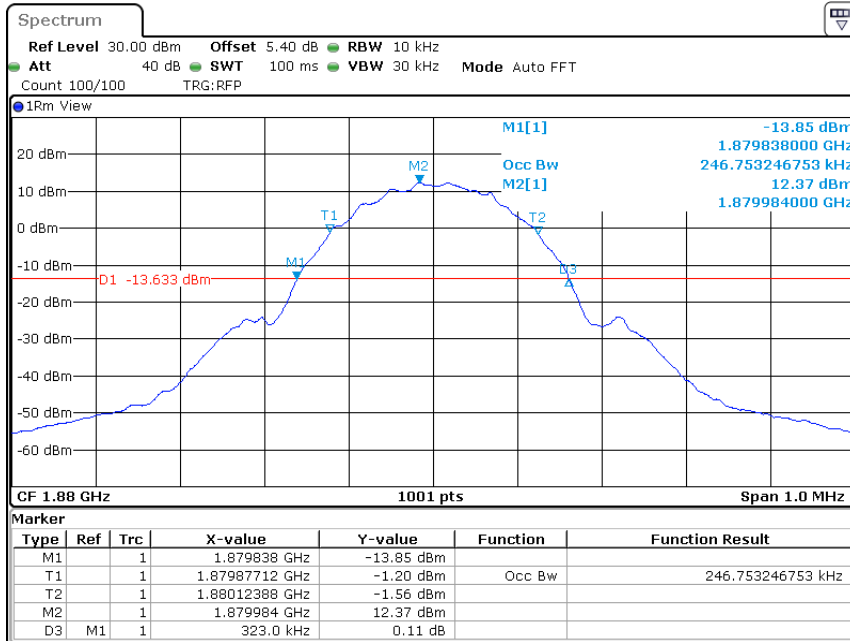


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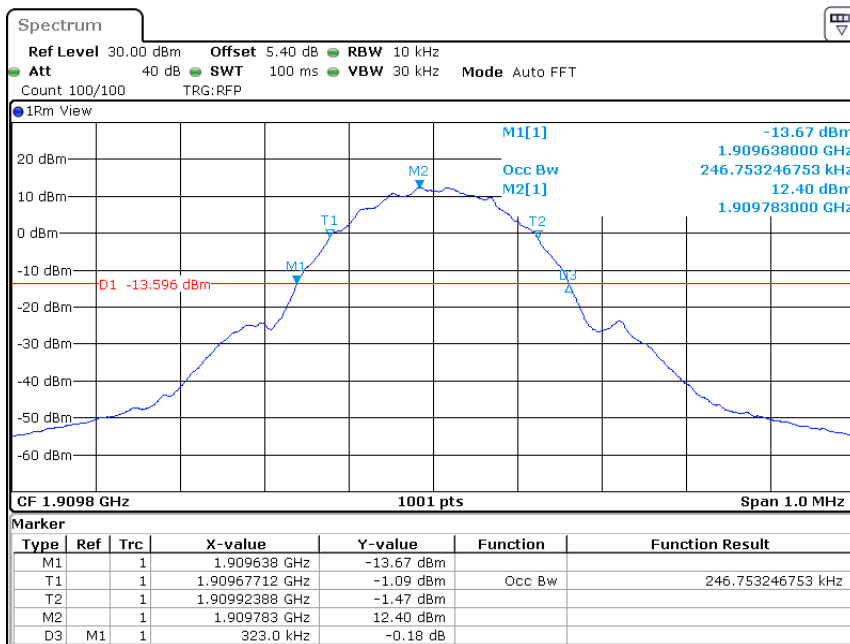
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GSM1900-810

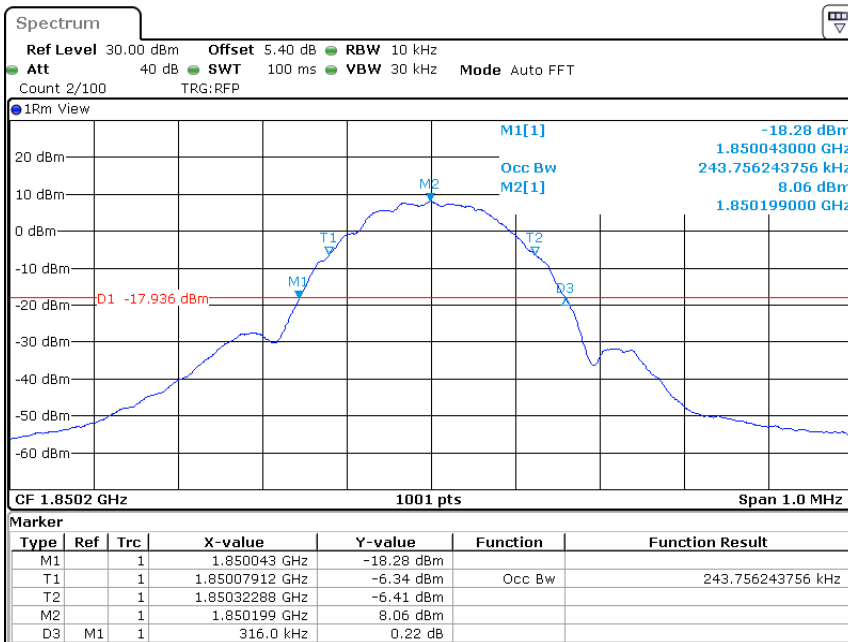


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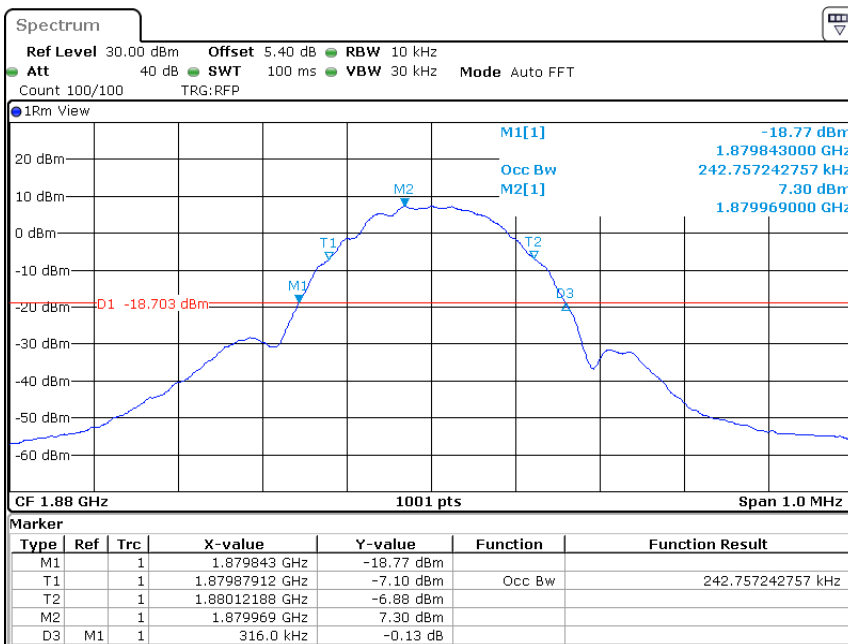
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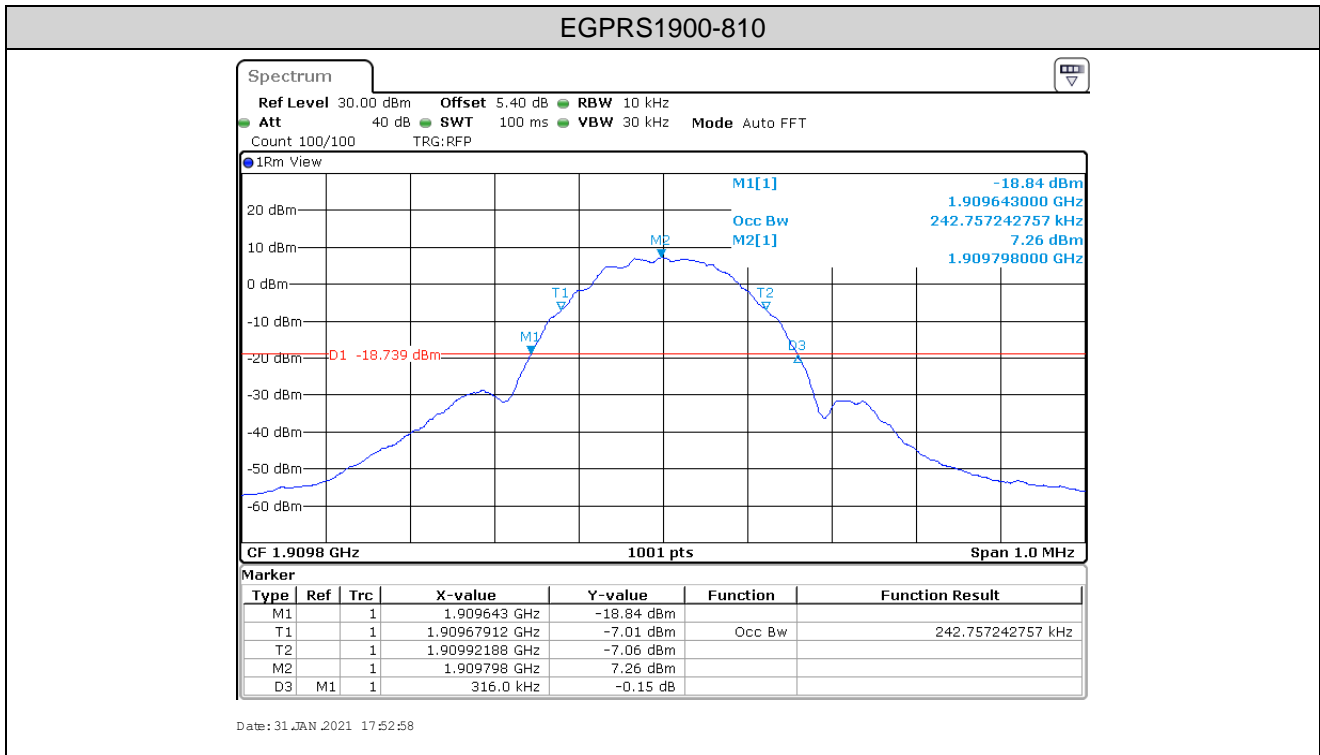
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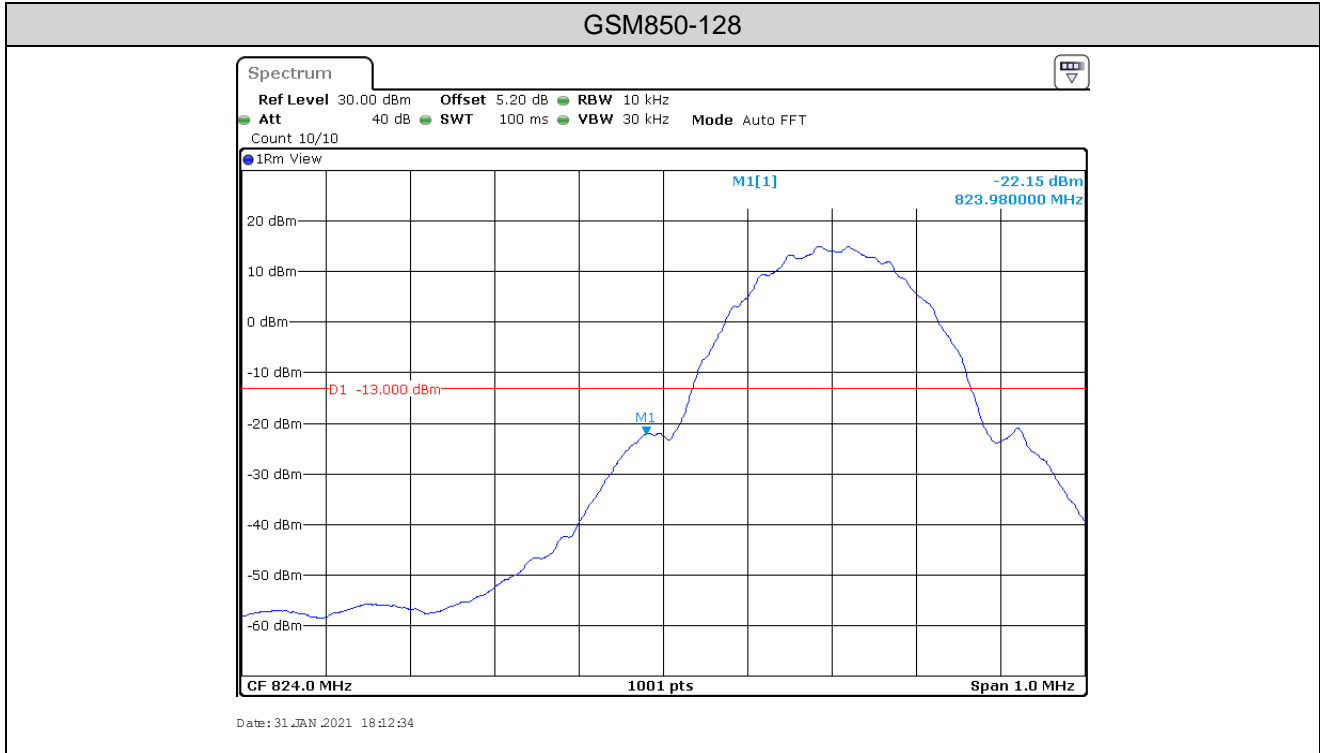


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5. Band Edge Compliance

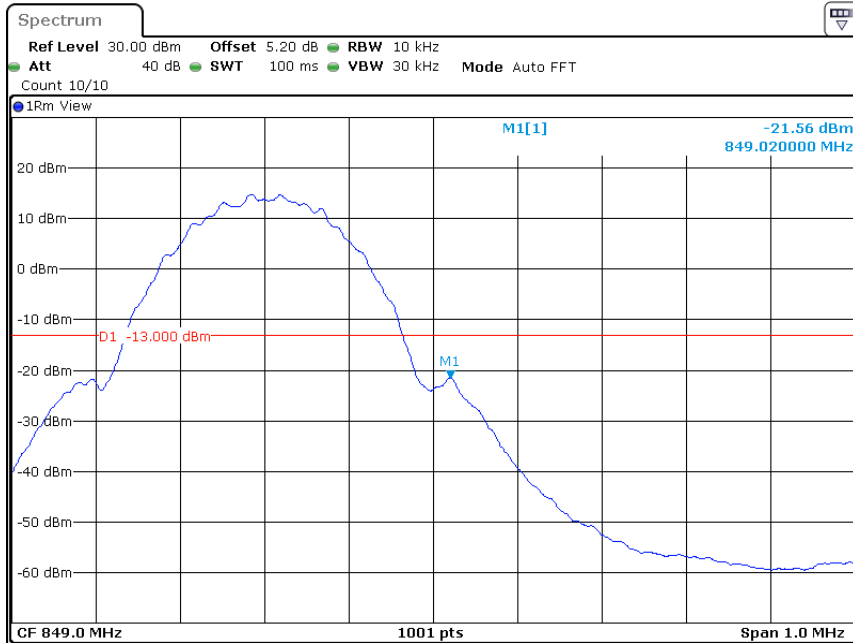
5.1. Test Plots



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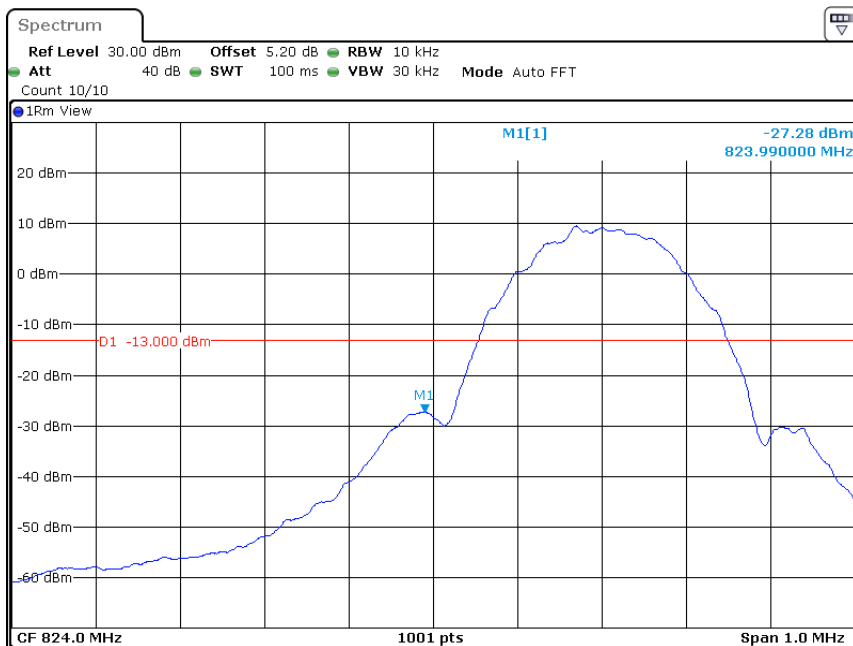
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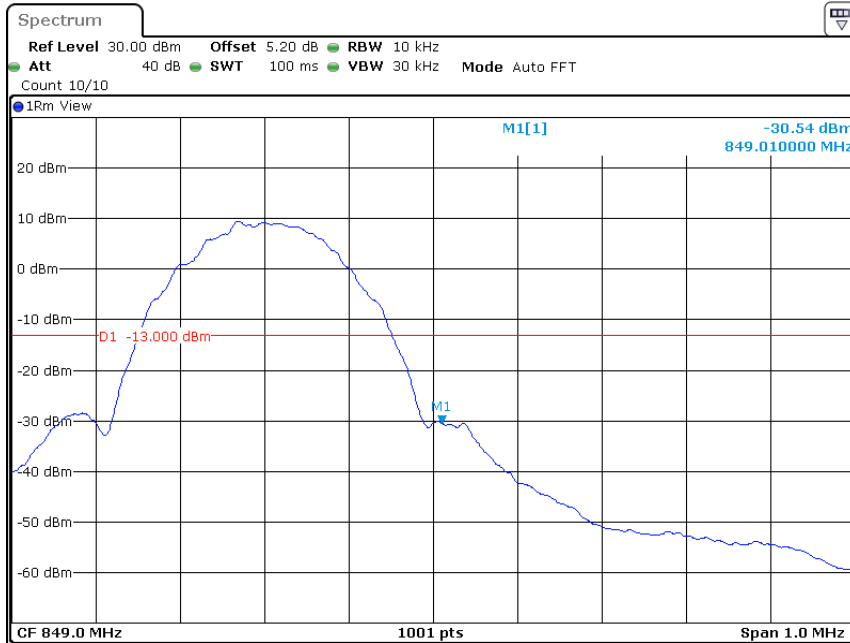


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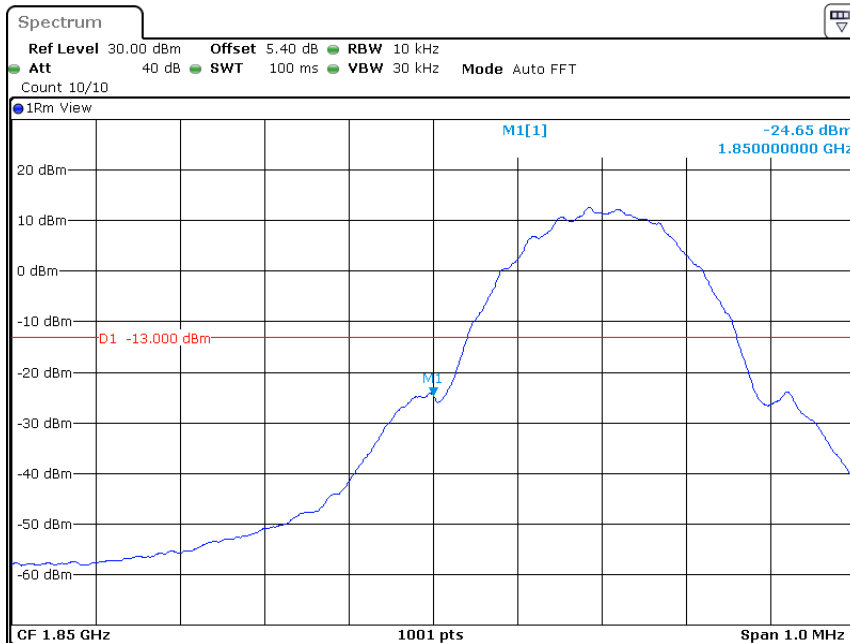
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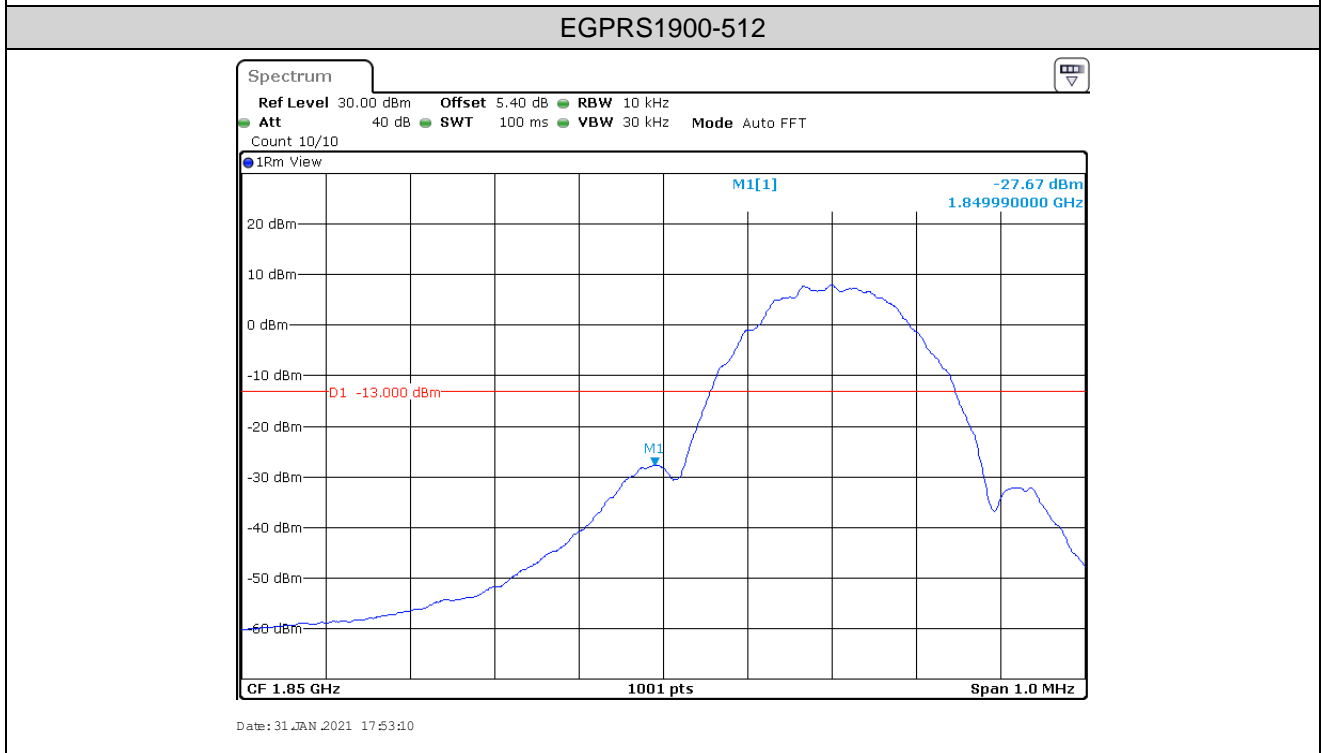
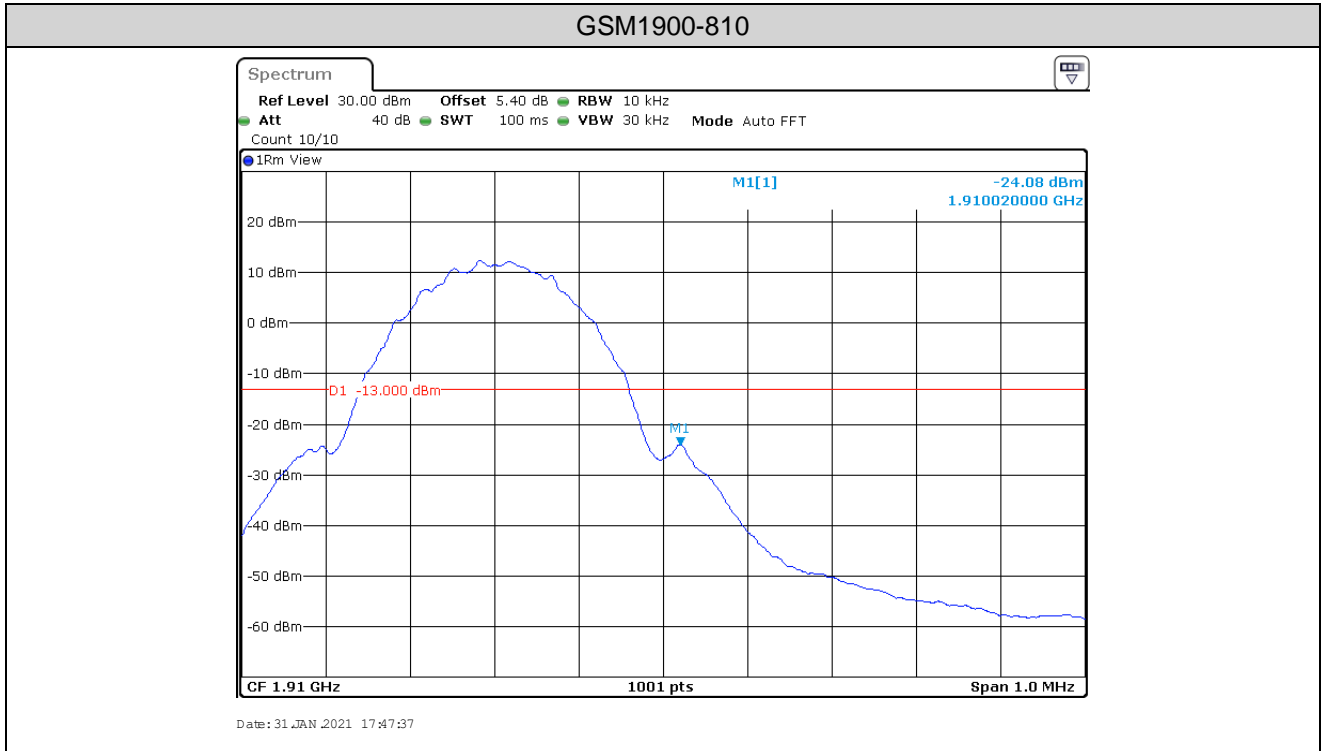


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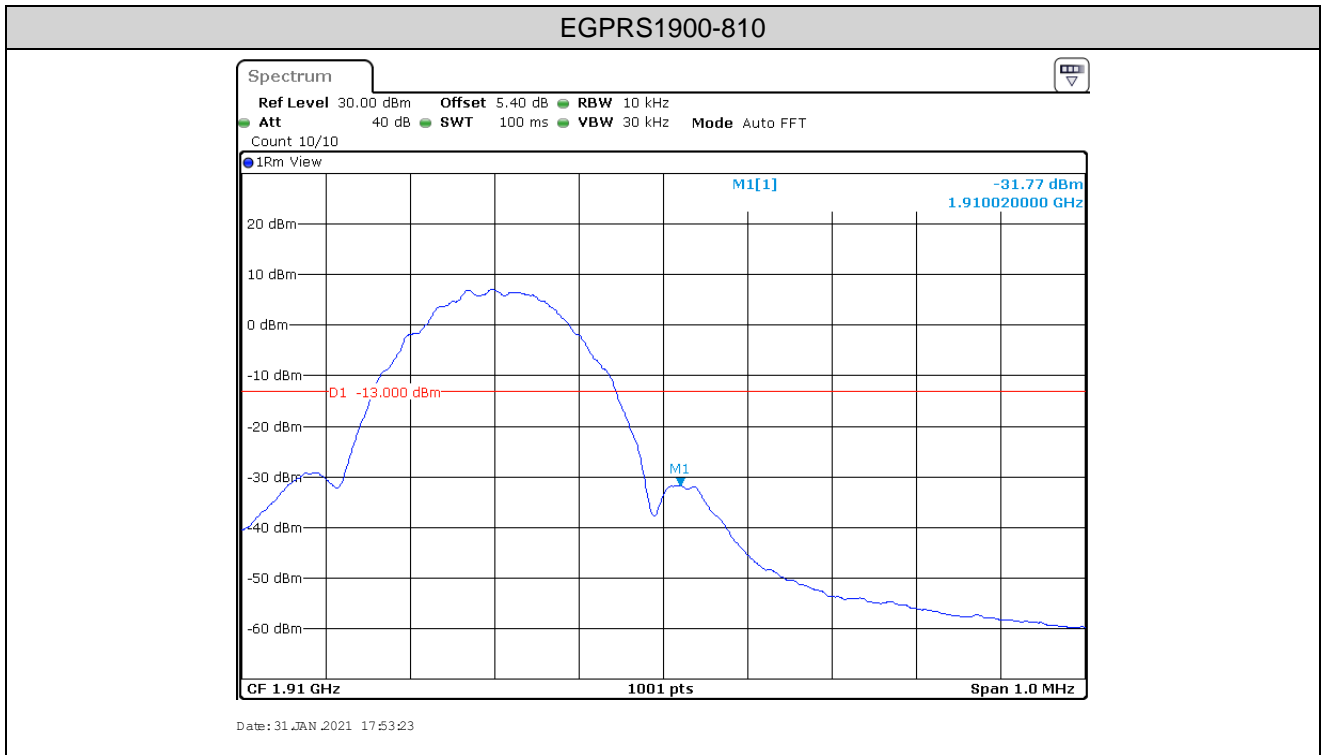
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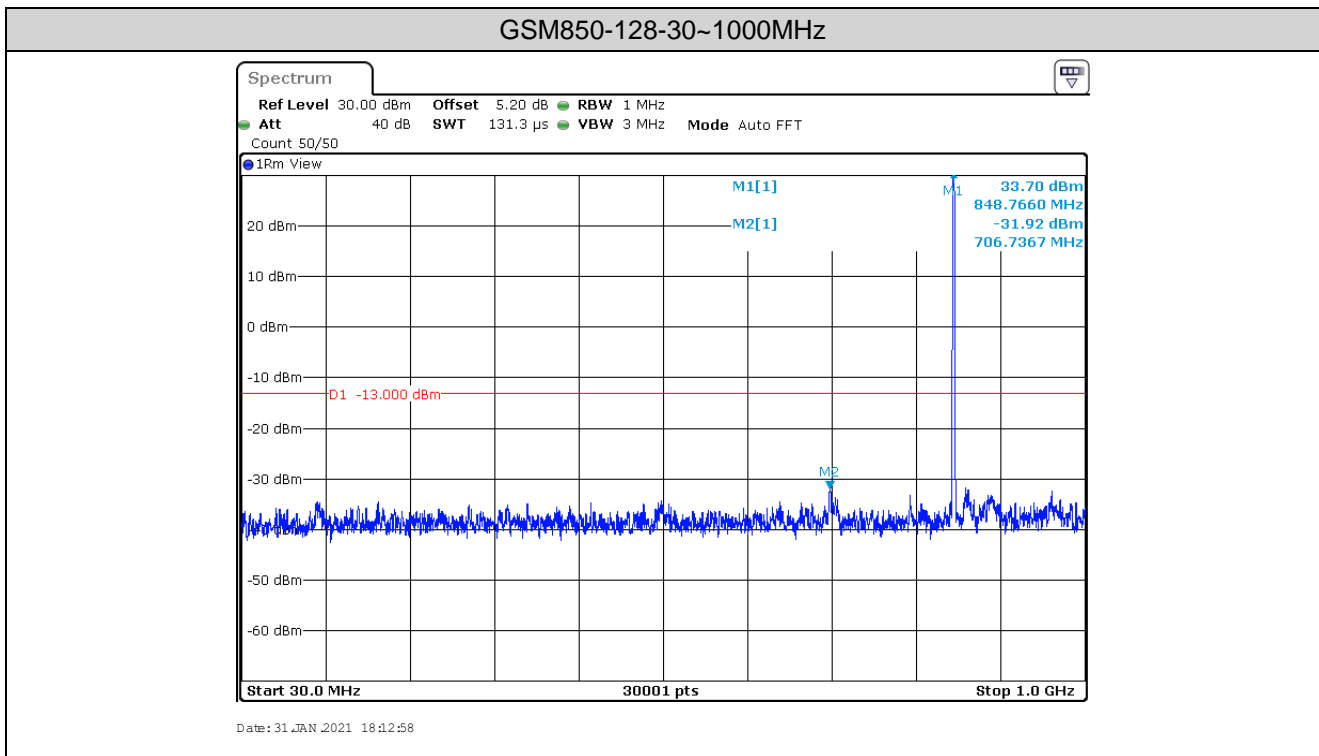
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6. Spurious Emission at Antenna Terminal

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 $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

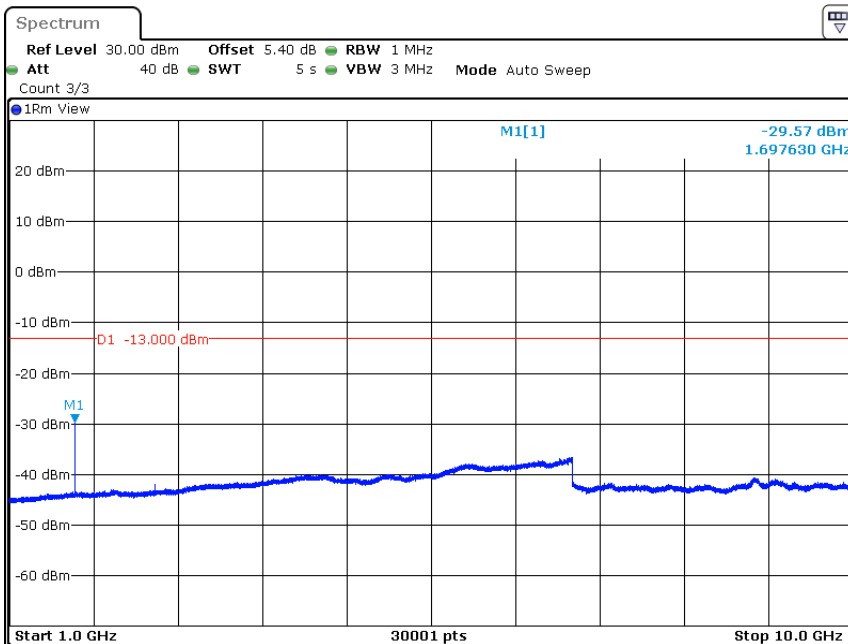
Remark2: only the worst case data displayed in this report.

6.1. Test Plots



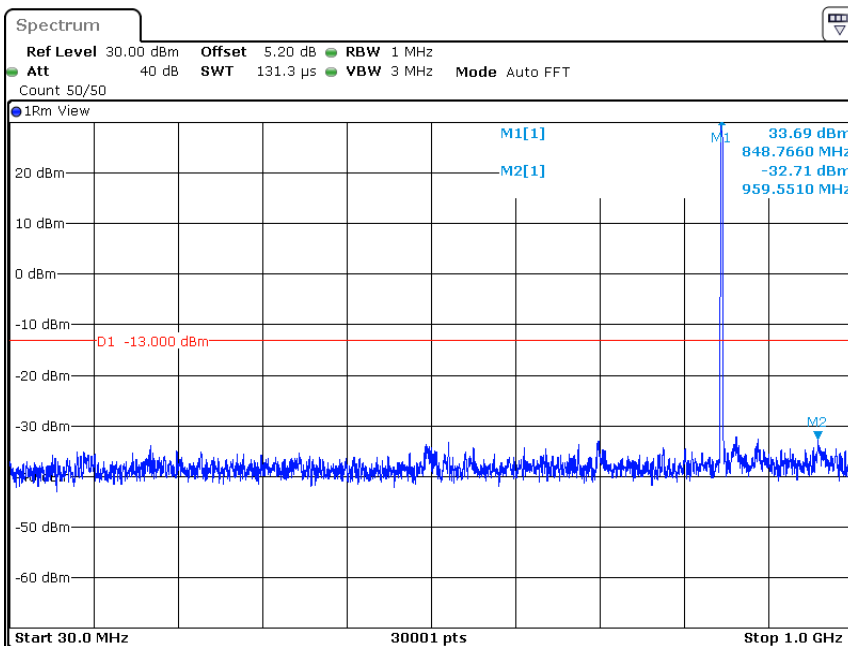
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GSM850-128-1000~10000MHz



Date: 31 JAN 2021 18:13:22

GSM850-190-30~1000MHz



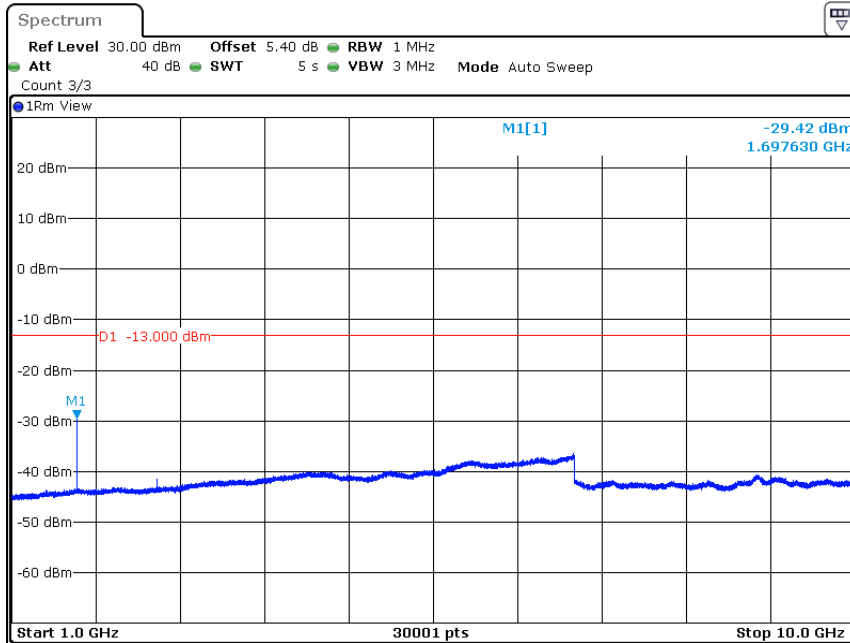
Date: 31 JAN 2021 18:13:33



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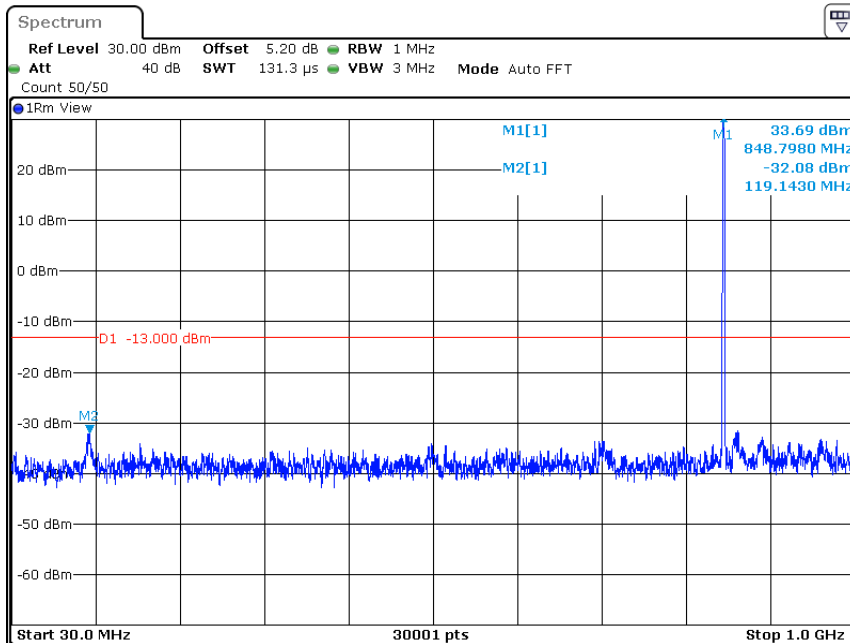
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GSM850-190-1000~10000MHz



Date: 31 JAN 2021 18:13:58

GSM850-251-30~1000MHz

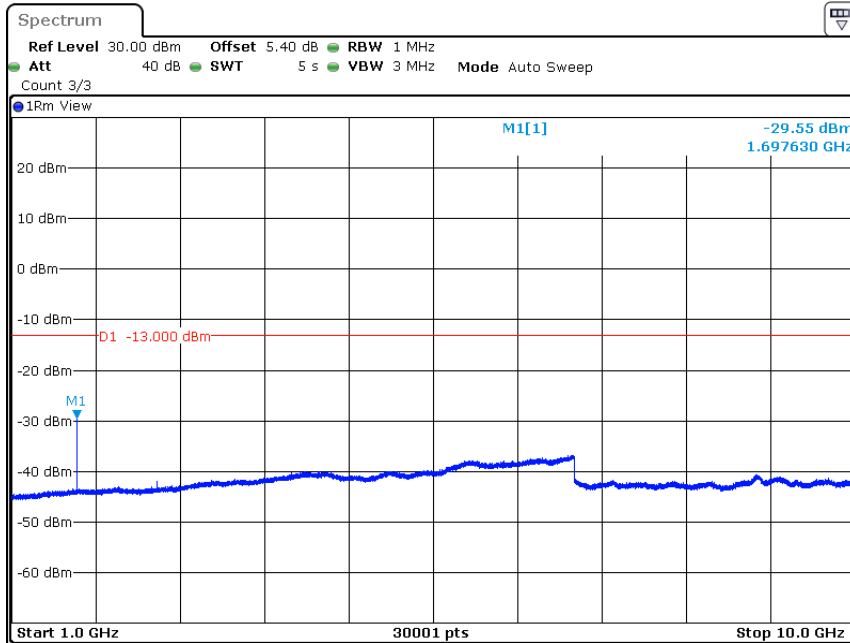


Date: 31 JAN 2021 18:14:09



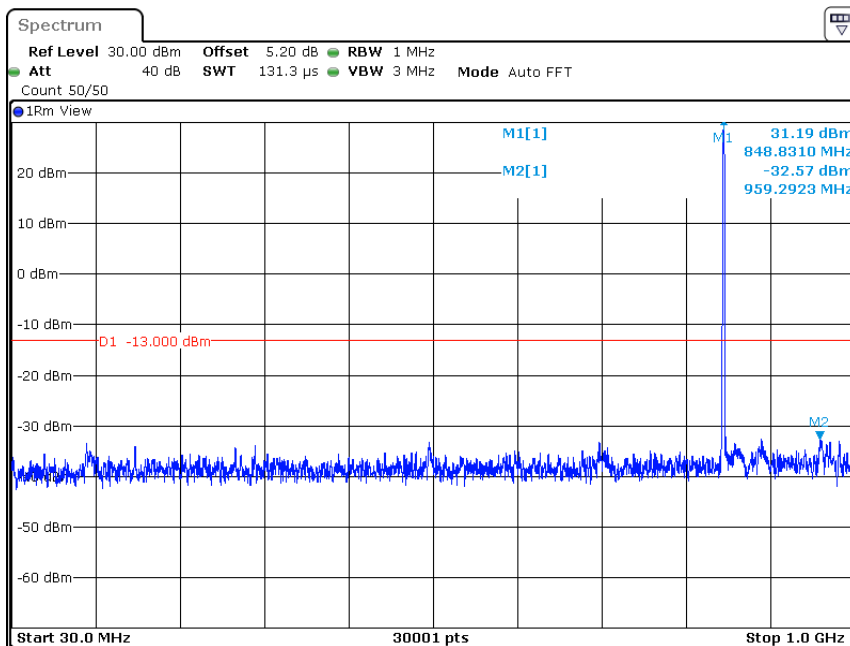
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GSM850-251-1000~10000MHz



Date: 31 JAN 2021 18:14:33

EGPRS850-128-30~1000MHz

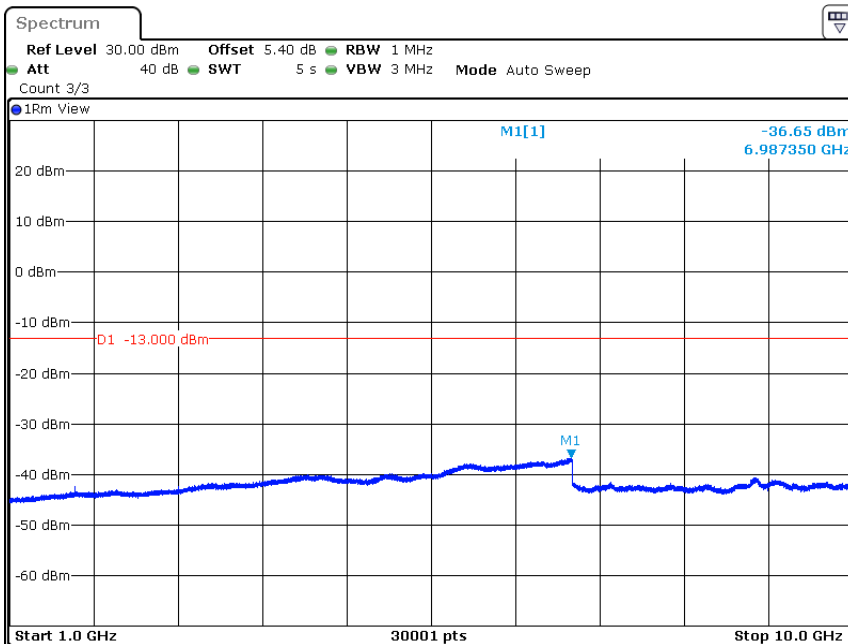


Date: 31 JAN 2021 18:26:04



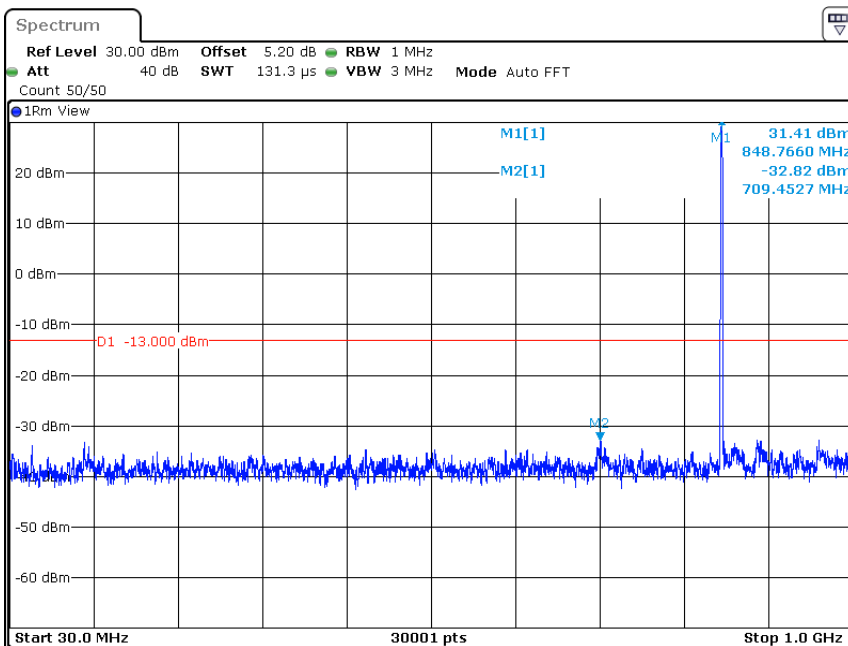
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EGPRS850-128-1000~10000MHz



Date: 31 JAN 2021 18:26:28

EGPRS850-190-30~1000MHz

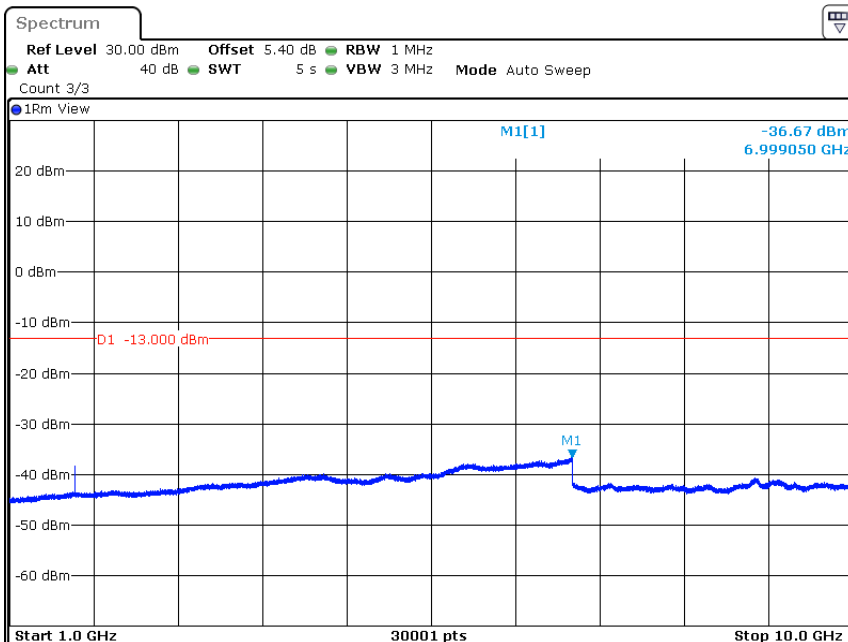


Date: 31 JAN 2021 18:26:41



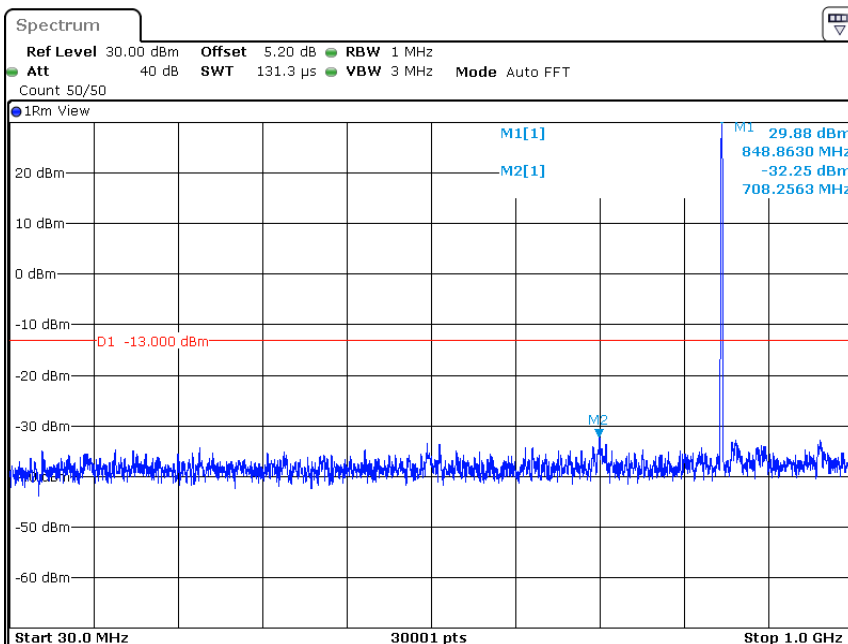
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EGPRS850-190-1000~10000MHz



Date: 31 JAN 2021 18:27:08

EGPRS850-251-30~1000MHz

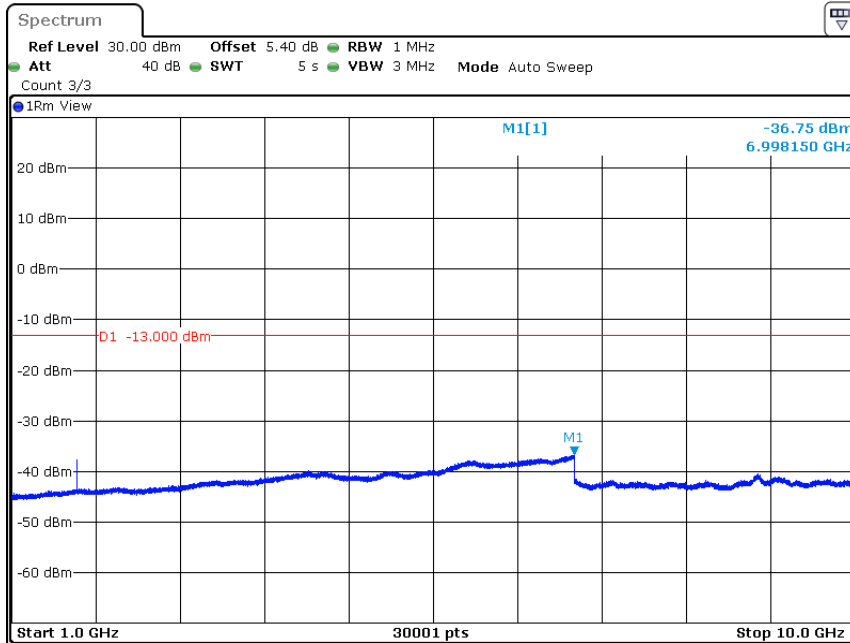


Date: 31 JAN 2021 18:27:20



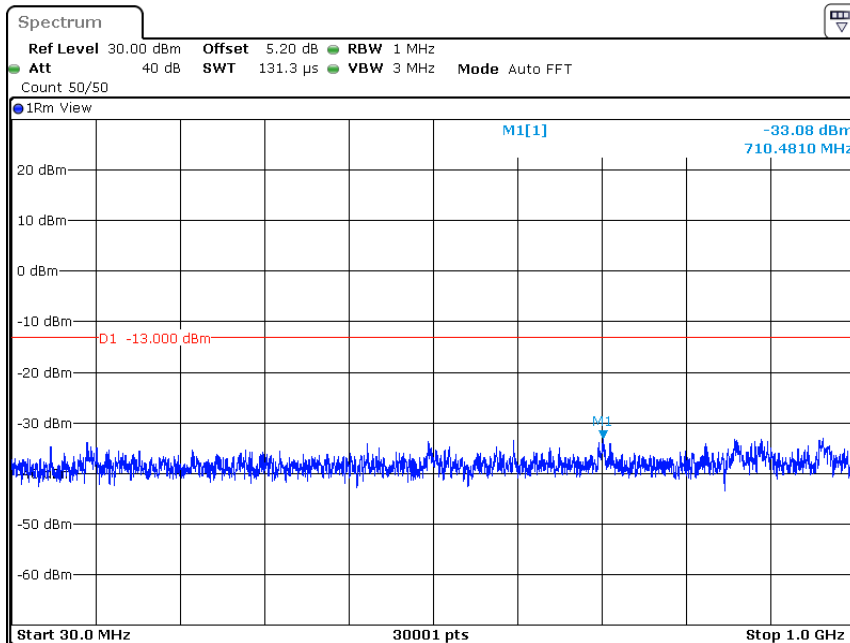
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EGPRS850-251-1000~10000MHz



Date: 31 JAN 2021 18:27:44

GSM1900-512-30~1000MHz



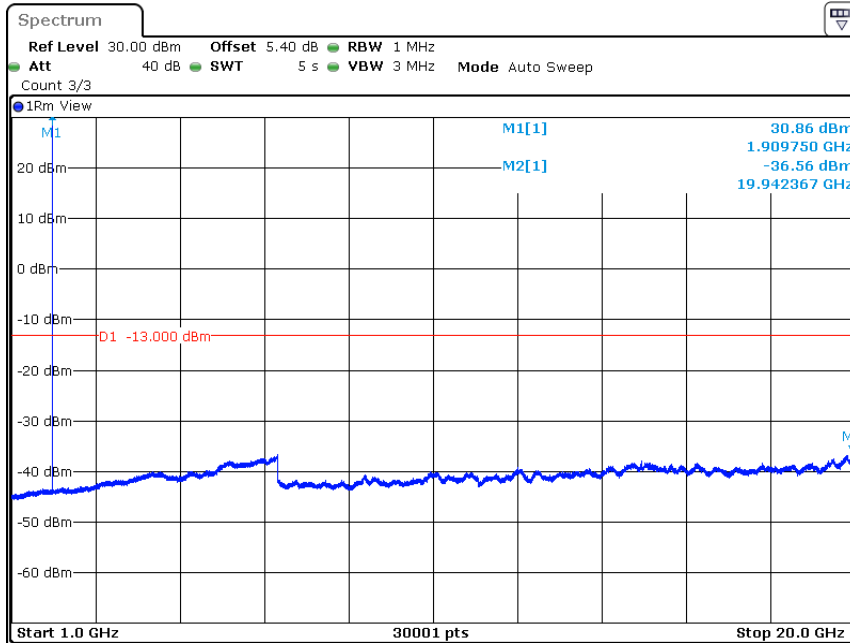
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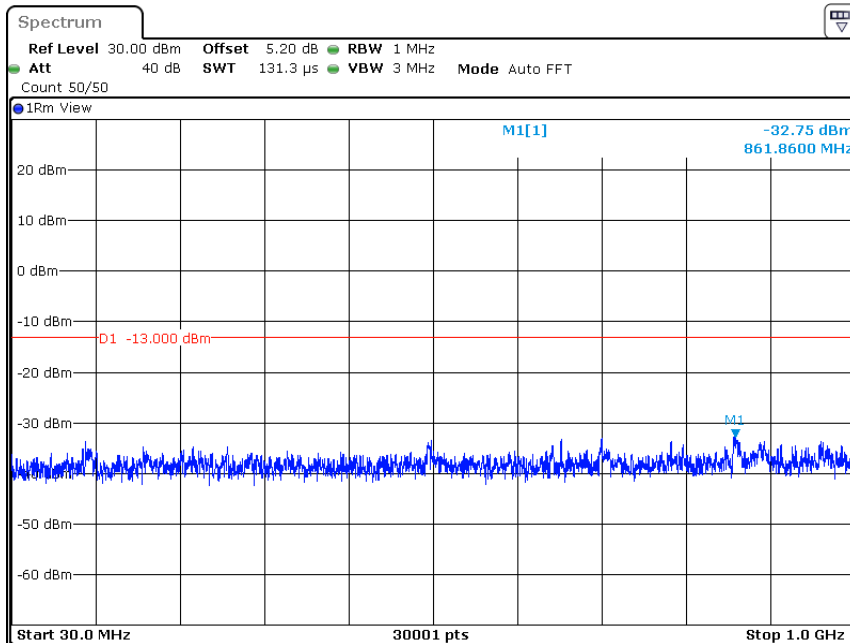
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GSM1900-512-1000~20000MHz



Date: 31 JAN 2021 17:48:14

GSM1900-661-30~1000MHz



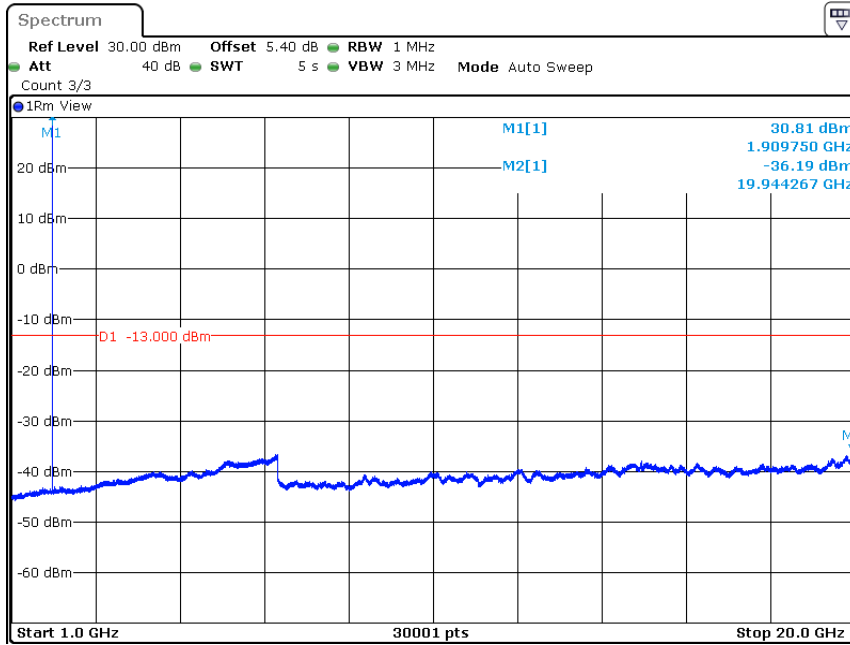
Date: 31 JAN 2021 17:48:24



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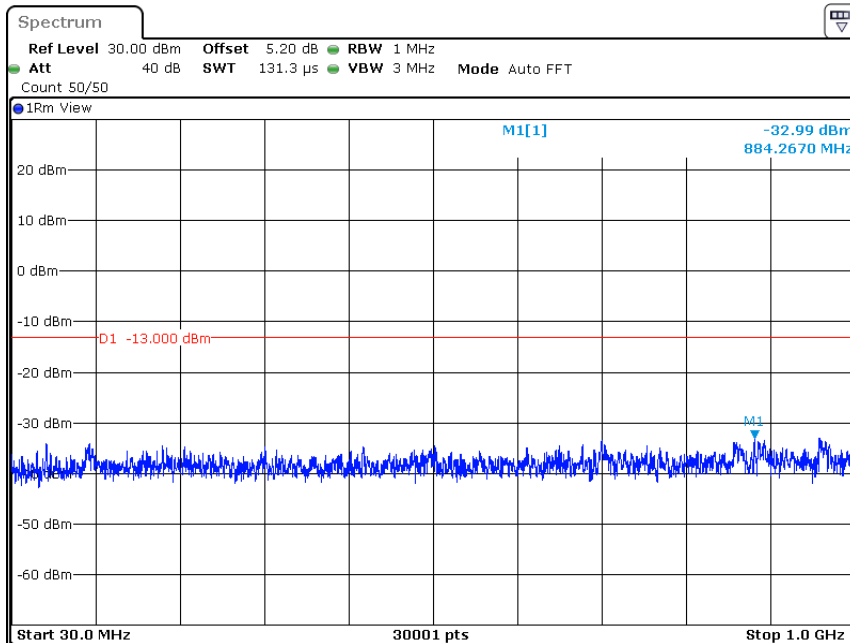
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GSM1900-661-1000~20000MHz



Date: 31 JAN 2021 17:48:49

GSM1900-810-30~1000MHz



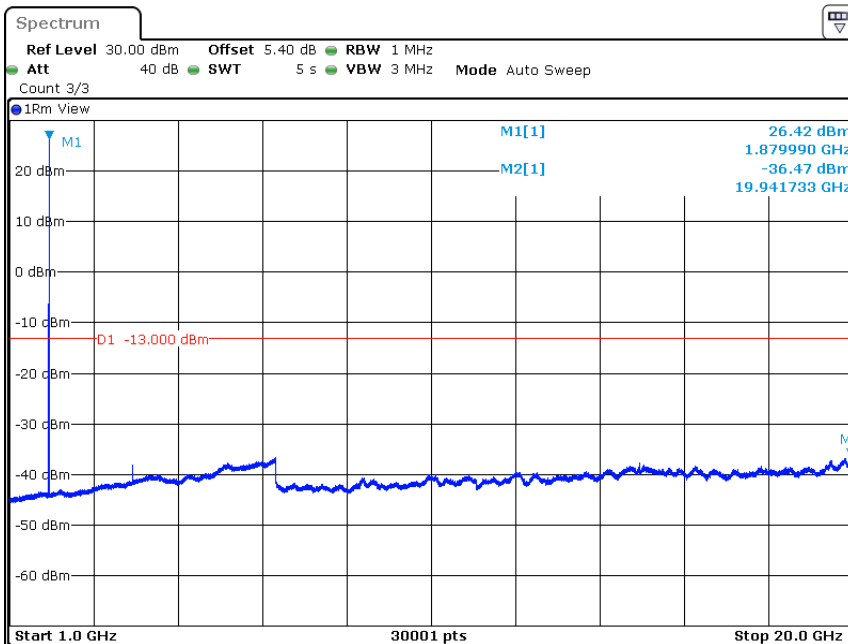
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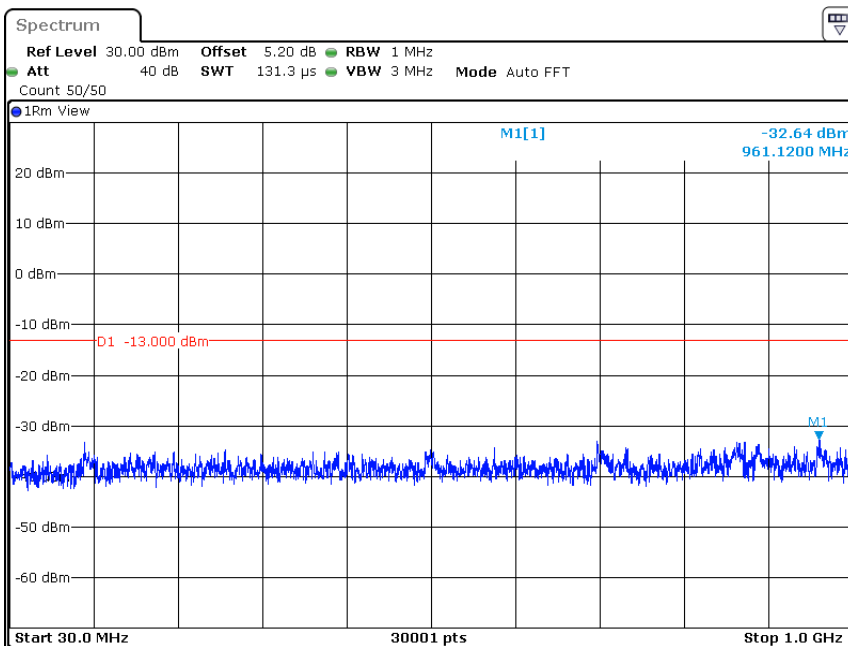
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GSM1900-810-1000~20000MHz



Date: 31 JAN 2021 17:57:07

EGPRS1900-512-30~1000MHz

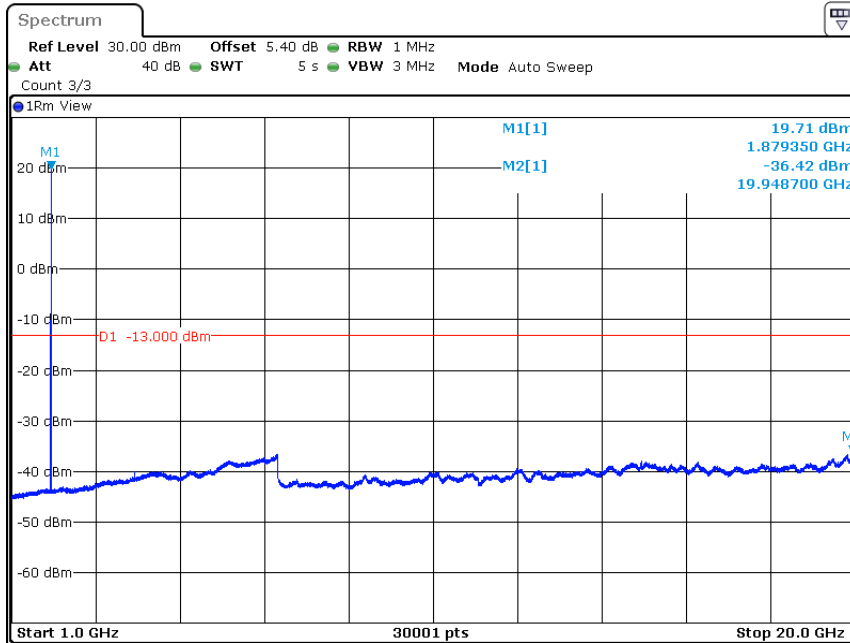


Date: 31 JAN 2021 17:58:32



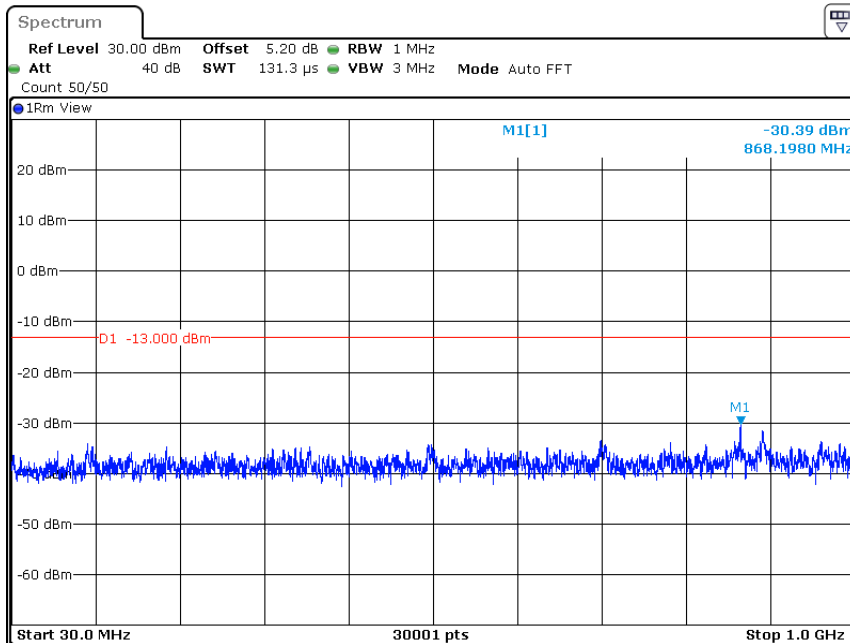
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EGPRS1900-512-1000~20000MHz



Date: 31 JAN 2021 17:59:18

EGPRS1900-661-30~1000MHz

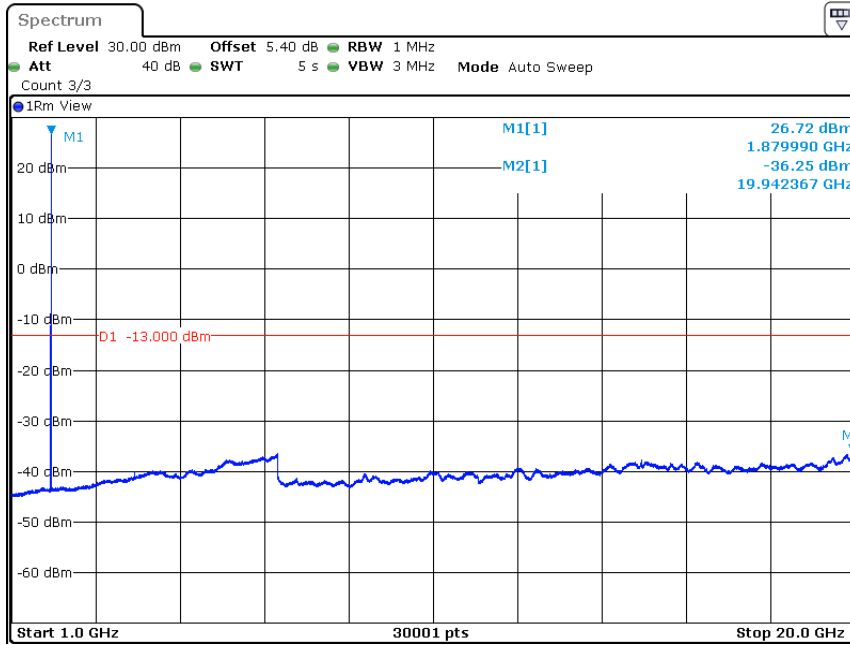


Date: 31 JAN 2021 17:59:29



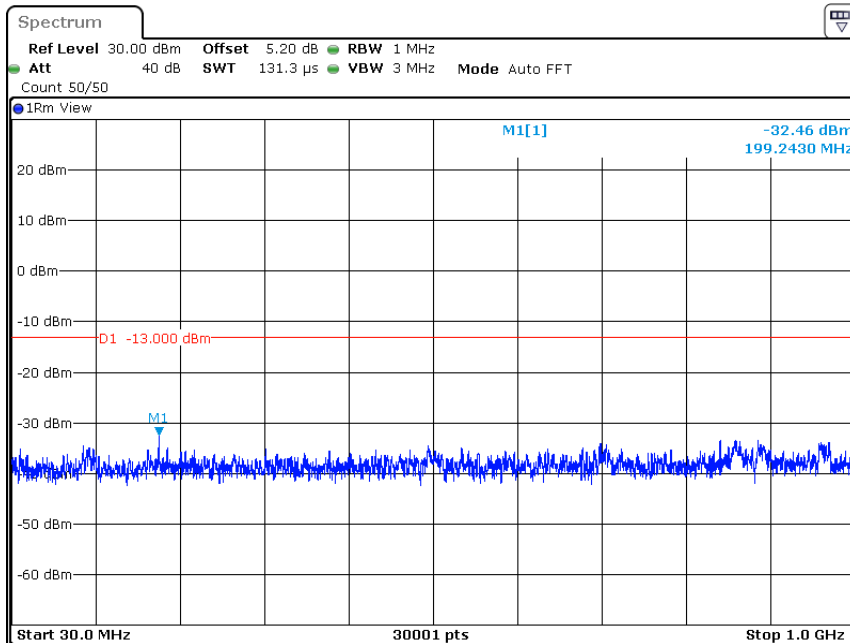
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EGPRS1900-661-1000~20000MHz



Date: 31 JAN 2021 18:07:12

EGPRS1900-810-30~1000MHz

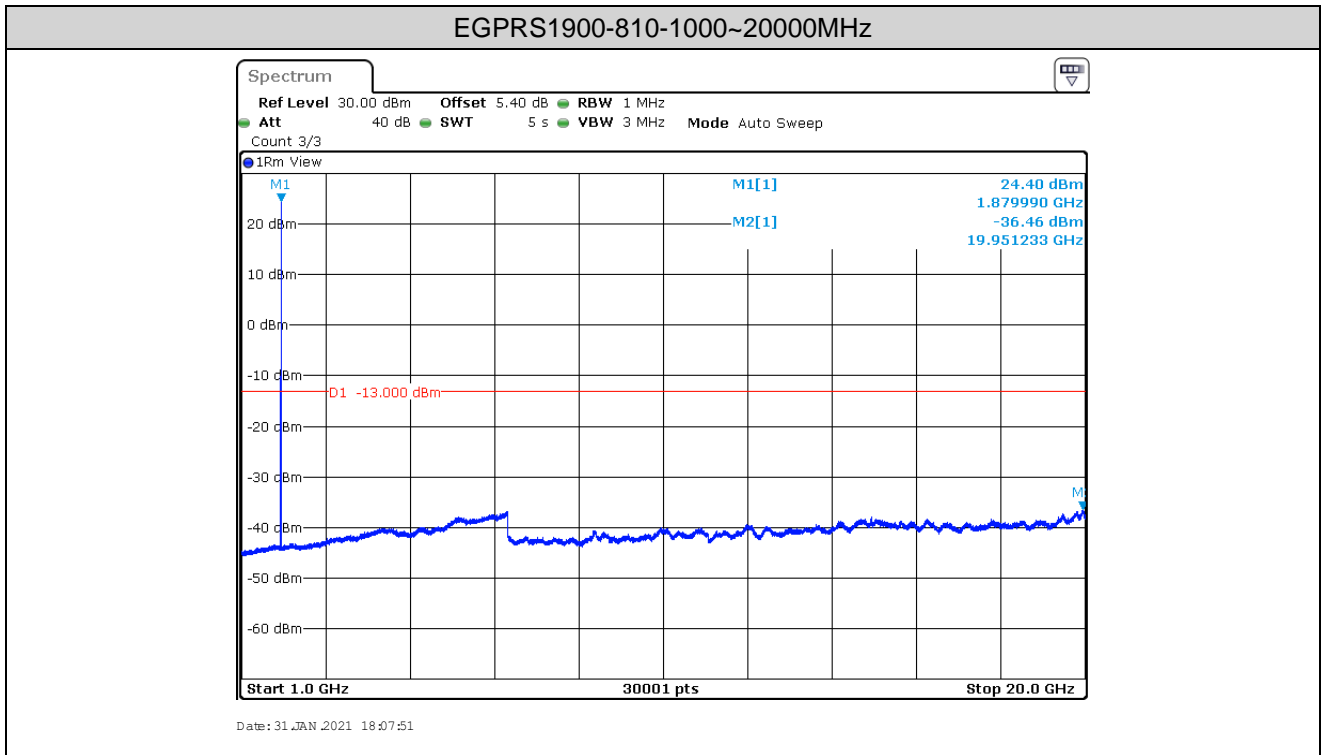


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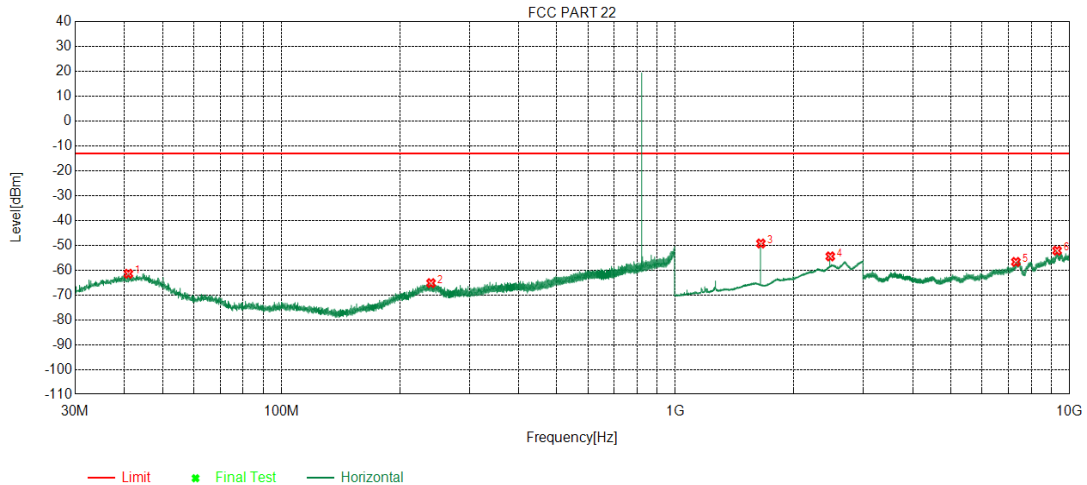
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7. Field Strength of Spurious Radiation

7.1. Test Band = GSM_850 DOWN ANT

7.1.1. Test Channel = Low Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	40.9615	-68.25	-61.44	-13.00	48.44	Horizontal
2	239.9670	-68.01	-65.22	-13.00	52.22	Horizontal
3	1648.5297	-53.30	-49.25	-13.00	36.25	Horizontal
4	2472.6945	-65.27	-54.46	-13.00	41.46	Horizontal
5	7311.9104	-56.40	-56.68	-13.00	43.68	Horizontal
6	9300.2100	-58.08	-52.14	-13.00	39.14	Horizontal

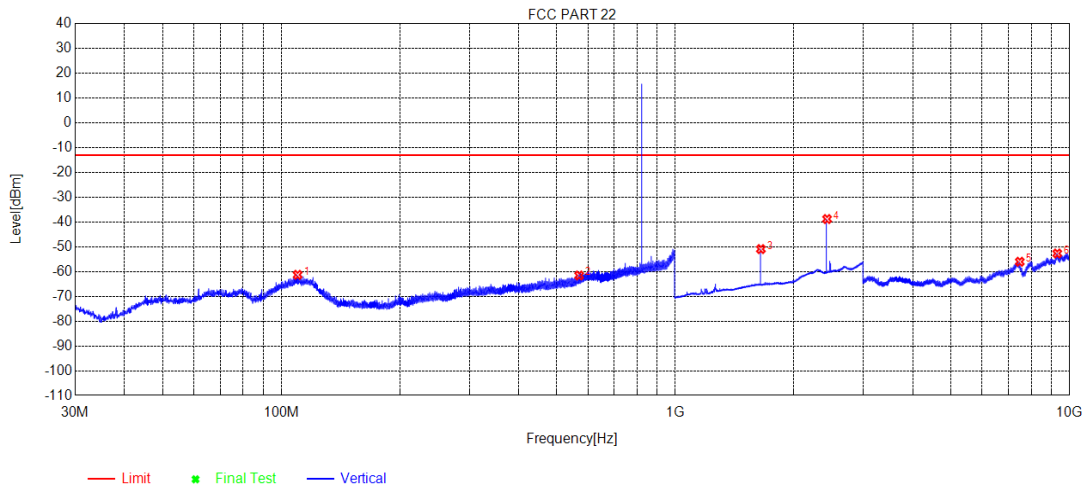


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7.2. Test Band = GSM_850 DOWN ANT

7.2.1. Test Channel = Low Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	110.0775	-67.70	-61.30	-13.00	48.30	Vertical
2	570.0745	-67.71	-61.55	-13.00	48.55	Vertical
3	1648.5297	-55.58	-50.90	-13.00	37.90	Vertical
4	2426.2853	-47.91	-38.77	-13.00	25.77	Vertical
5	7480.3827	-56.19	-56.02	-13.00	43.02	Vertical
6	9310.2437	-58.68	-52.67	-13.00	39.67	Vertical

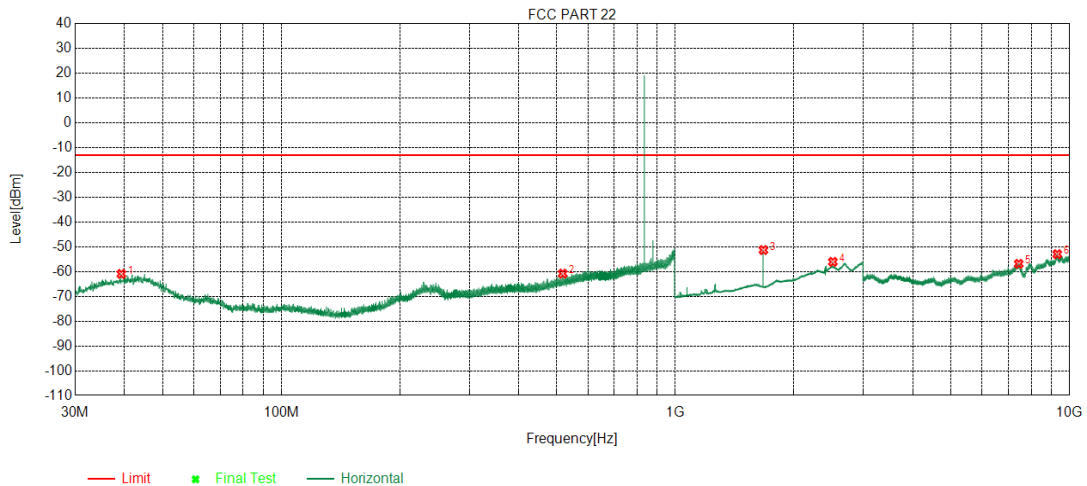


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7.3. Test Band = GSM_850 DOWN ANT

7.3.1. Test Channel = Mid Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	39.3125	-67.47	-60.94	-13.00	47.94	Horizontal
2	517.9344	-66.47	-60.80	-13.00	47.80	Horizontal
3	1672.9346	-55.11	-51.29	-13.00	38.29	Horizontal
4	2509.9020	-67.32	-56.06	-13.00	43.06	Horizontal
5	7434.4145	-56.82	-56.86	-13.00	43.86	Horizontal
6	9311.1770	-58.79	-52.96	-13.00	39.96	Horizontal

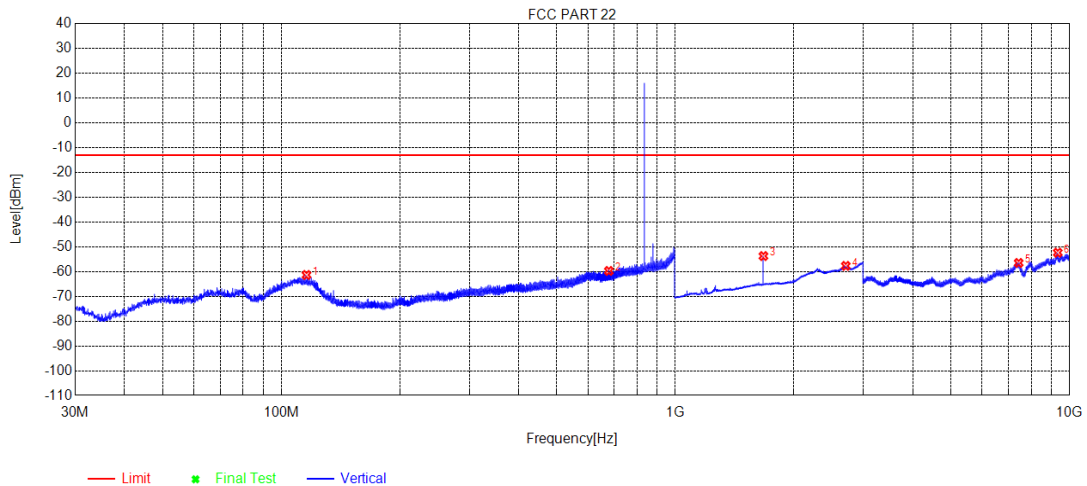


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7.4. Test Band = GSM_850 DOWN ANT

7.4.1. Test Channel = Mid Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	115.9463	-67.24	-61.35	-13.00	48.35	Vertical
2	678.1379	-67.63	-59.72	-13.00	46.72	Vertical
3	1672.9346	-58.48	-53.72	-13.00	40.72	Vertical
4	2706.7413	-69.29	-57.68	-13.00	44.68	Vertical
5	7430.6810	-56.91	-56.50	-13.00	43.50	Vertical
6	9338.2446	-58.08	-52.35	-13.00	39.35	Vertical



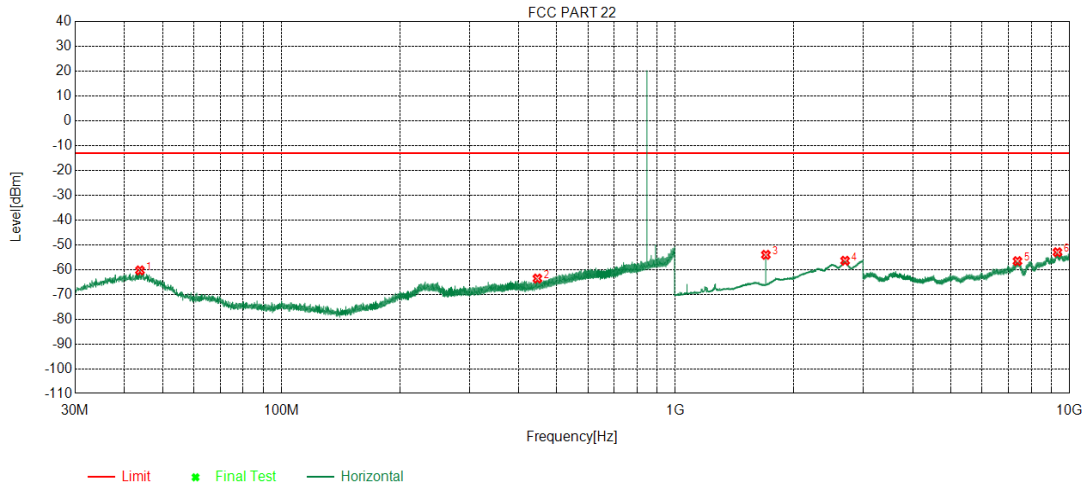
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7.5. Test Band = GSM_850 DOWN ANT

7.5.1. Test Channel = High Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.8232	-67.28	-60.32	-13.00	47.32	Horizontal
2	446.7813	-66.95	-63.60	-13.00	50.60	Horizontal
3	1697.3395	-57.61	-54.03	-13.00	41.03	Horizontal
4	2696.3393	-69.24	-56.41	-13.00	43.41	Horizontal
5	7379.3460	-56.47	-56.58	-13.00	43.58	Horizontal
6	9320.9774	-58.73	-52.99	-13.00	39.99	Horizontal

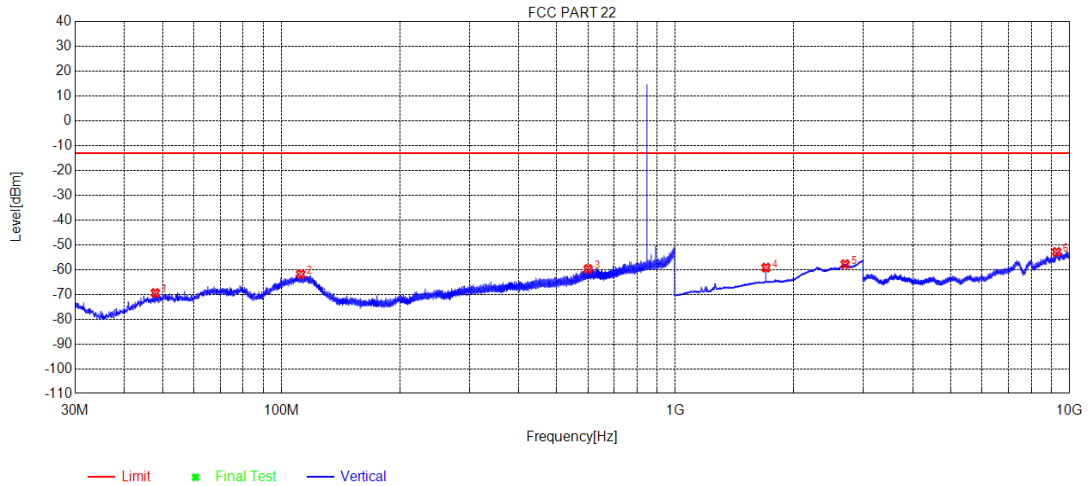


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7.6. Test Band = GSM_850 DOWN ANT

7.6.1. Test Channel = High Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	47.9459	-67.79	-69.43	-13.00	56.43	Vertical
2	112.1146	-68.09	-61.87	-13.00	48.87	Vertical
3	600.9705	-67.38	-59.74	-13.00	46.74	Vertical
4	1697.7395	-64.02	-59.18	-13.00	46.18	Vertical
5	2697.1394	-69.41	-57.79	-13.00	44.79	Vertical
6	9274.3091	-58.54	-52.88	-13.00	39.88	Vertical



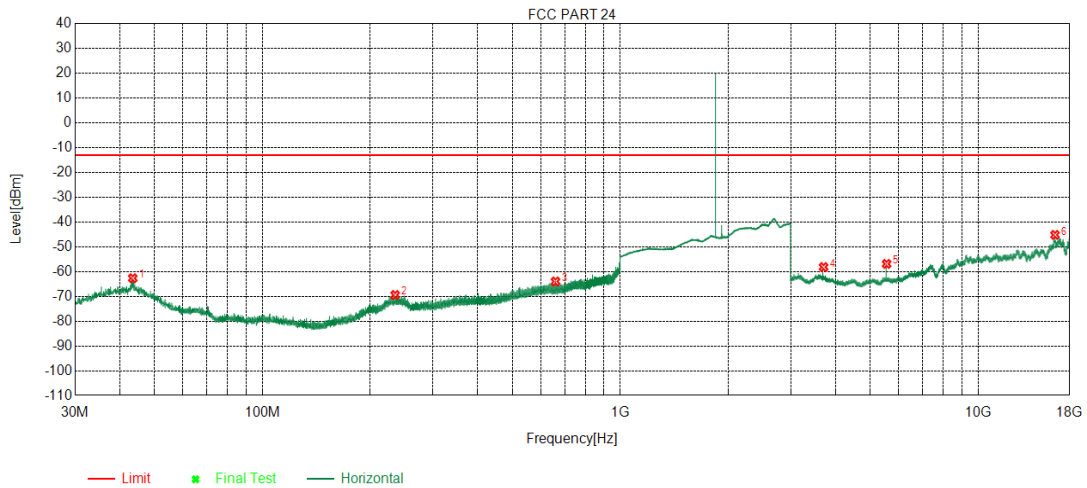
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7.7. Test Band = GSM_1900 DOWN ANT

7.7.1. Test Channel = Low Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.4837	-69.61	-62.67	-13.00	49.67	Horizontal
2	235.1168	-72.24	-69.43	-13.00	56.43	Horizontal
3	659.7555	-71.93	-63.97	-13.00	50.97	Horizontal
4	3700.5234	-49.59	-58.16	-13.00	45.16	Horizontal
5	5550.5850	-50.74	-56.88	-13.00	43.88	Horizontal
6	16401.446	-59.59	-45.18	-13.00	32.18	Horizontal

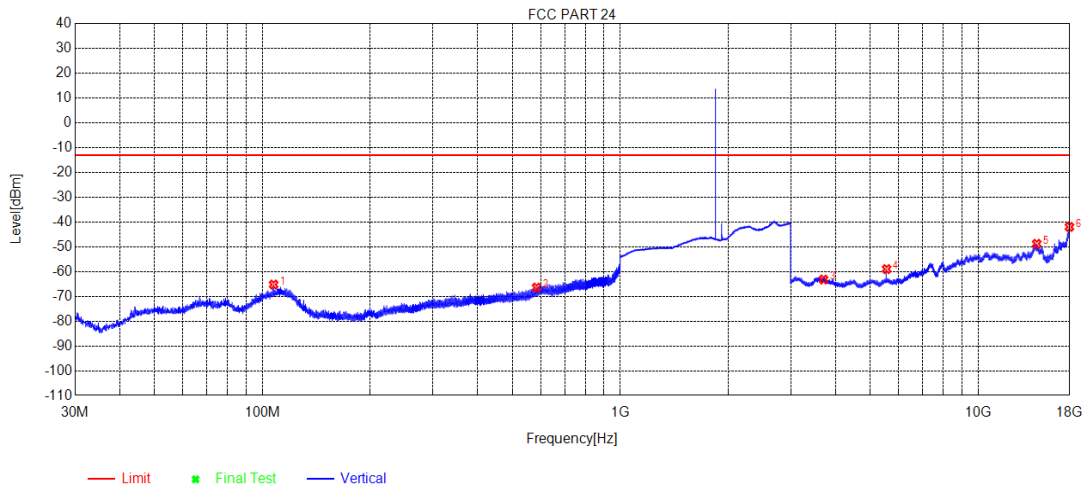


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7.8. Test Band = GSM_1900 DOWN ANT

7.8.1. Test Channel = Low Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	107.6039	-71.07	-65.22	-13.00	52.22	Vertical
2	584.0917	-73.29	-66.44	-13.00	53.44	Vertical
3	3700.0233	-53.82	-63.19	-13.00	50.19	Vertical
4	5550.5850	-52.40	-58.97	-13.00	45.97	Vertical
5	14580.386	-60.54	-48.77	-13.00	35.77	Vertical
6	17995.499	-59.72	-41.95	-13.00	28.95	Vertical



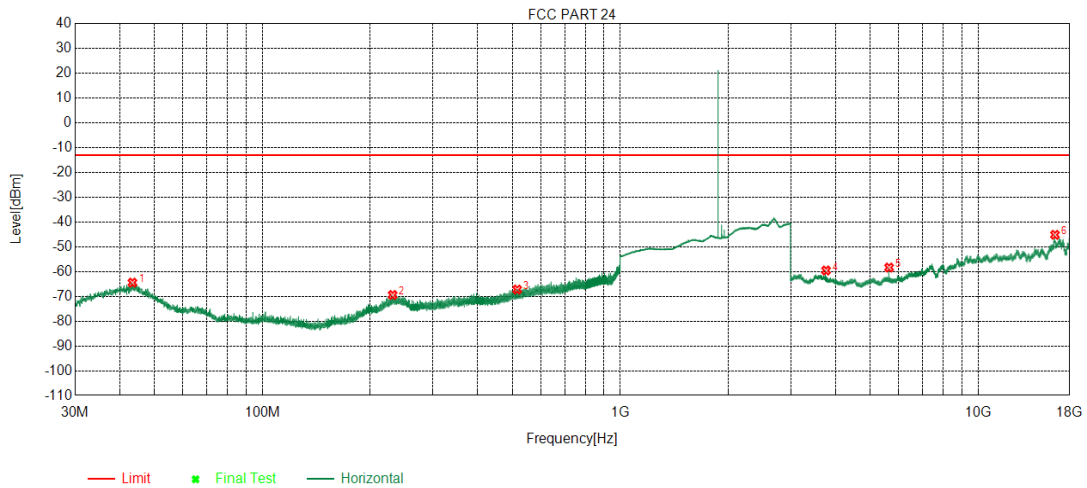
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7.9. Test Band = GSM_1900 DOWN ANT

7.9.1. Test Channel = Mid Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.3867	-71.38	-64.44	-13.00	51.44	Horizontal
2	231.3336	-72.24	-69.42	-13.00	56.42	Horizontal
3	515.6548	-72.84	-67.23	-13.00	54.23	Horizontal
4	3760.0253	-51.13	-59.53	-13.00	46.53	Horizontal
5	5640.0880	-52.31	-58.35	-13.00	45.35	Horizontal
6	16395.446	-59.50	-45.13	-13.00	32.13	Horizontal

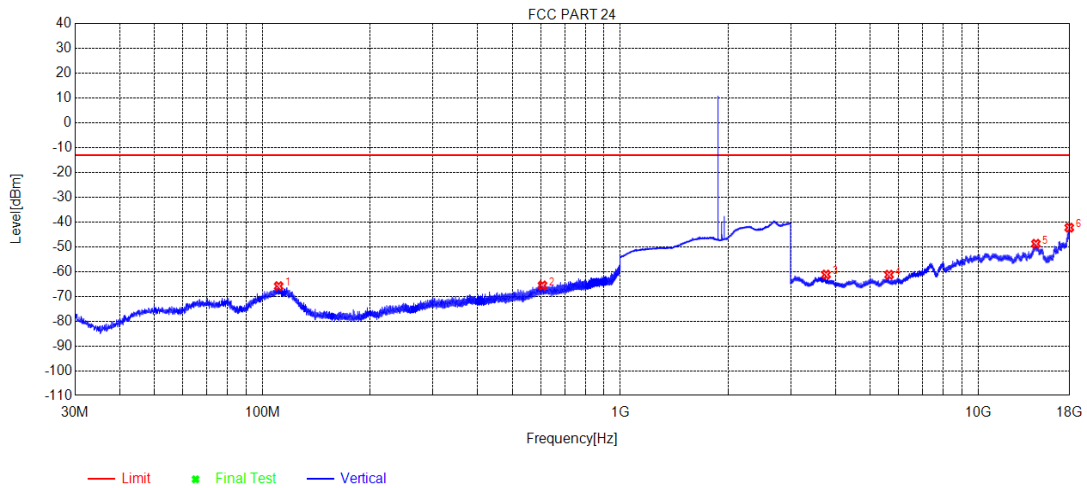


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7.10. Test Band = GSM_1900 DOWN ANT

7.10.1. Test Channel = Mid Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	111.1446	-72.18	-65.87	-13.00	52.87	Vertical
2	606.9848	-73.20	-65.58	-13.00	52.58	Vertical
3	3760.0253	-52.15	-61.21	-13.00	48.21	Vertical
4	5639.5880	-54.76	-61.27	-13.00	48.27	Vertical
5	14503.383	-61.25	-48.77	-13.00	35.77	Vertical
6	17975.999	-59.54	-42.26	-13.00	29.26	Vertical



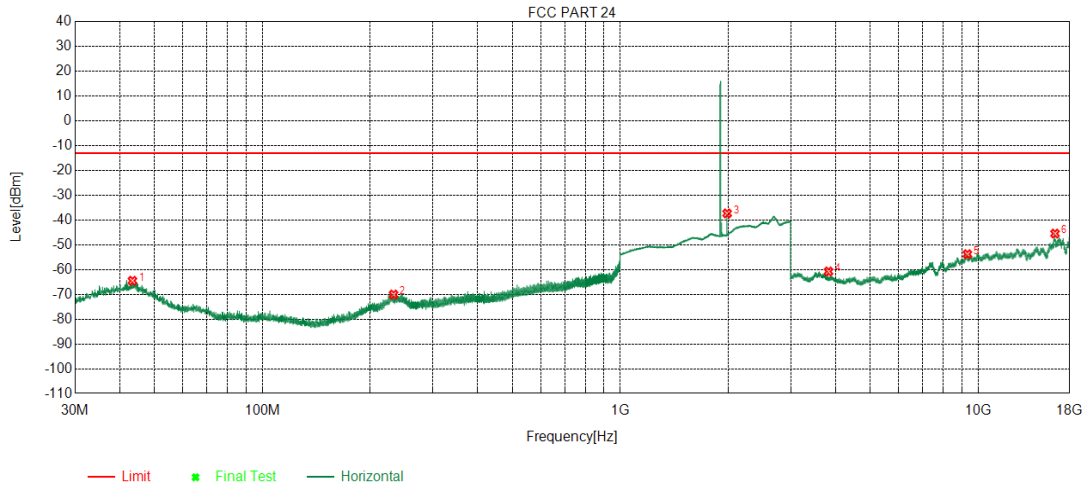
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7.11. Test Band = GSM_1900 DOWN ANT

7.11.1. Test Channel = High Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.3867	-71.44	-64.50	-13.00	51.50	Horizontal
2	232.7401	-72.88	-70.06	-13.00	57.06	Horizontal
3	1989.7980	-62.89	-37.32	-13.00	24.32	Horizontal
4	3819.5273	-52.53	-60.76	-13.00	47.76	Horizontal
5	9333.2111	-59.39	-53.77	-13.00	40.77	Horizontal
6	16401.446	-59.86	-45.45	-13.00	32.45	Horizontal



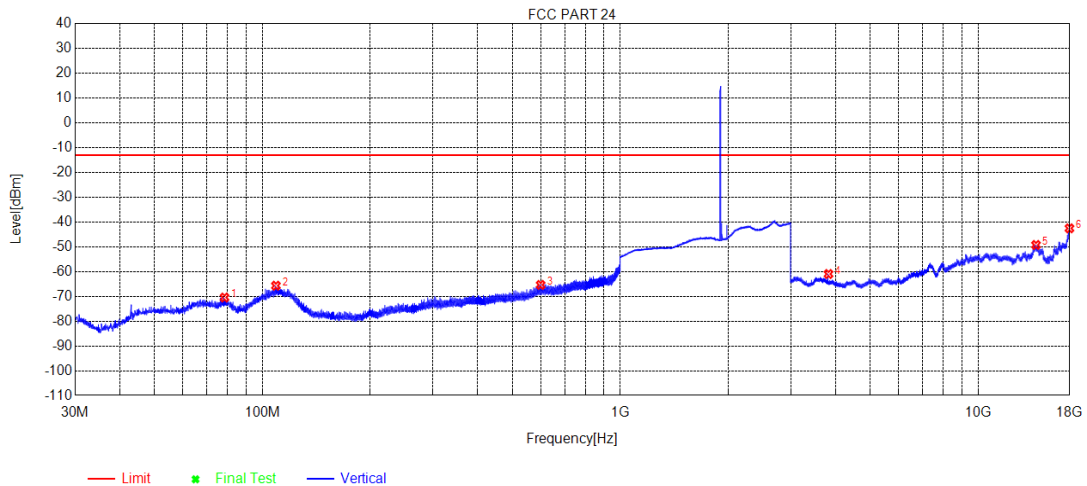
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7.12. Test Band = GSM_1900 DOWN ANT

7.12.1. Test Channel = High Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	78.4539	-72.15	-70.46	-13.00	57.46	Vertical
2	109.2045	-71.90	-65.68	-13.00	52.68	Vertical
3	599.4670	-72.97	-65.36	-13.00	52.36	Vertical
4	3819.5273	-52.14	-60.96	-13.00	47.96	Vertical
5	14512.383	-61.64	-49.24	-13.00	36.24	Vertical
6	17996.499	-60.32	-42.53	-13.00	29.53	Vertical



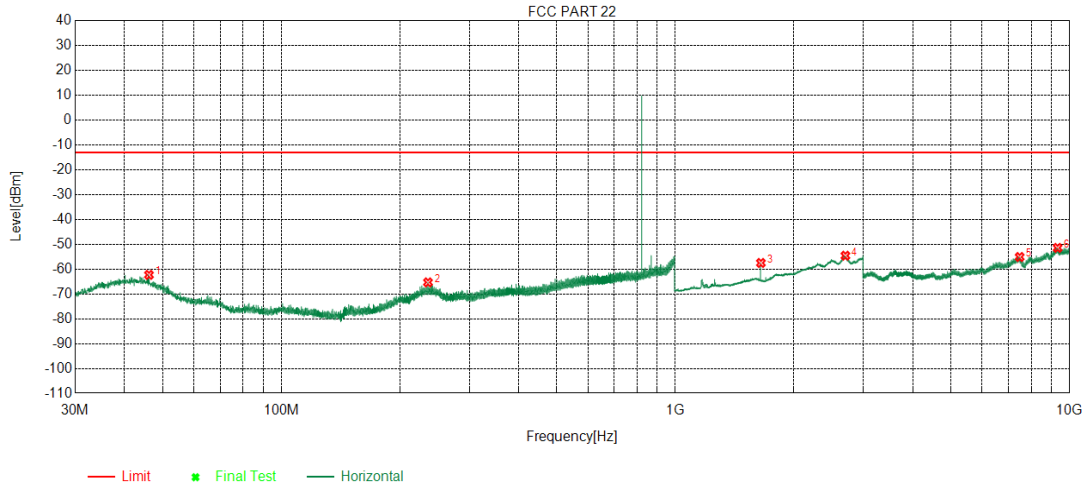
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7.13. Test Band = GSM_850 UP ANT

7.13.1. Test Channel = Low Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	46.1998	-68.63	-62.30	-13.00	49.30	Horizontal
2	235.7473	-68.13	-65.32	-13.00	52.32	Horizontal
3	1648.5297	-61.54	-57.49	-13.00	44.49	Horizontal
4	2700.7401	-67.49	-54.58	-13.00	41.58	Horizontal
5	7475.7159	-55.09	-55.10	-13.00	42.10	Horizontal
6	9329.3776	-57.08	-51.42	-13.00	38.42	Horizontal



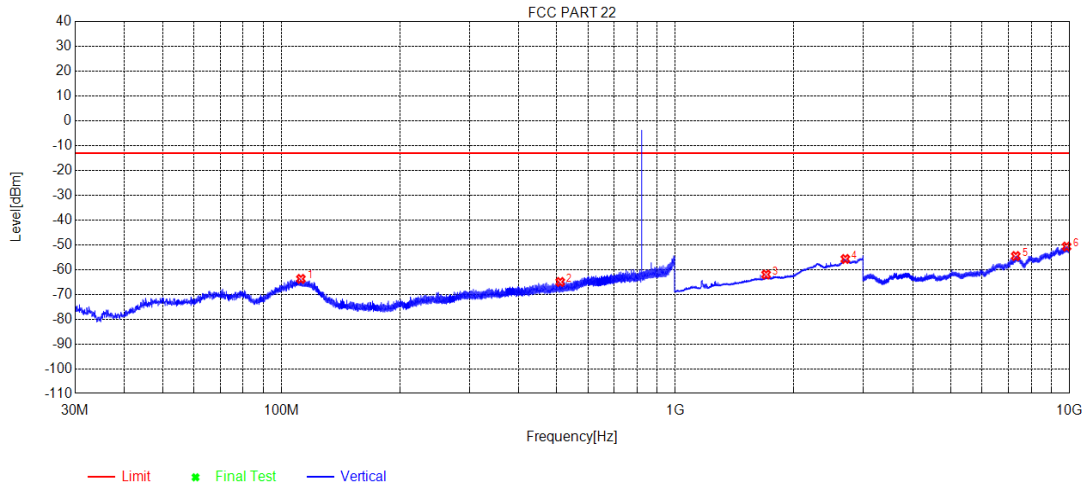
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7.14. Test Band = GSM_850 UP ANT

7.14.1. Test Channel = Low Channel

Test Graph



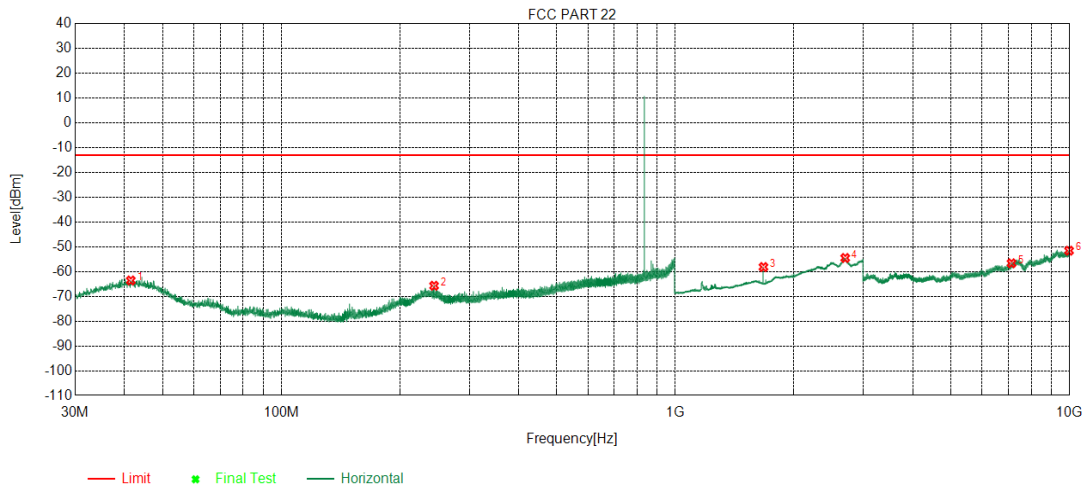
Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	112.2116	-69.96	-63.74	-13.00	50.74	Vertical
2	510.5135	-69.72	-64.98	-13.00	51.98	Vertical
3	1699.7399	-66.83	-61.98	-13.00	48.98	Vertical
4	2699.9400	-67.37	-55.70	-13.00	42.70	Vertical
5	7307.4769	-55.00	-54.52	-13.00	41.52	Vertical
6	9833.3944	-57.19	-50.70	-13.00	37.70	Vertical



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7.15. Test Band = GSM_850 UP ANT
7.15.1. Test Channel = Mid Channel

Test Graph



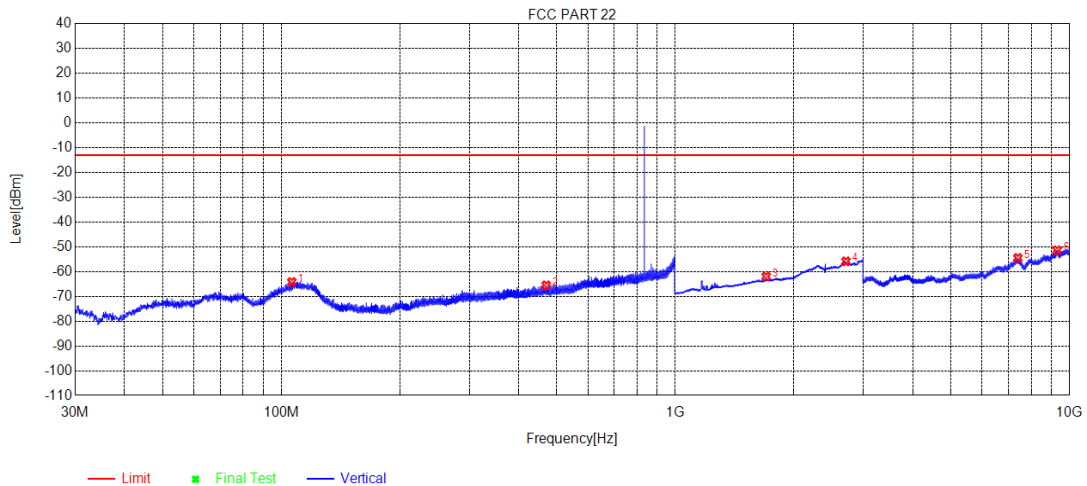
Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	41.5436	-70.42	-63.58	-13.00	50.58	Horizontal
2	244.2837	-68.40	-65.70	-13.00	52.70	Horizontal
3	1673.3347	-61.95	-58.14	-13.00	45.14	Horizontal
4	2697.9396	-67.37	-54.50	-13.00	41.50	Horizontal
5	7127.3376	-55.26	-56.63	-13.00	43.63	Horizontal
6	9975.9659	-56.98	-51.55	-13.00	38.55	Horizontal



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7.16. Test Band = GSM_850 UP ANT
7.16.1. Test Channel = Mid Channel

Test Graph



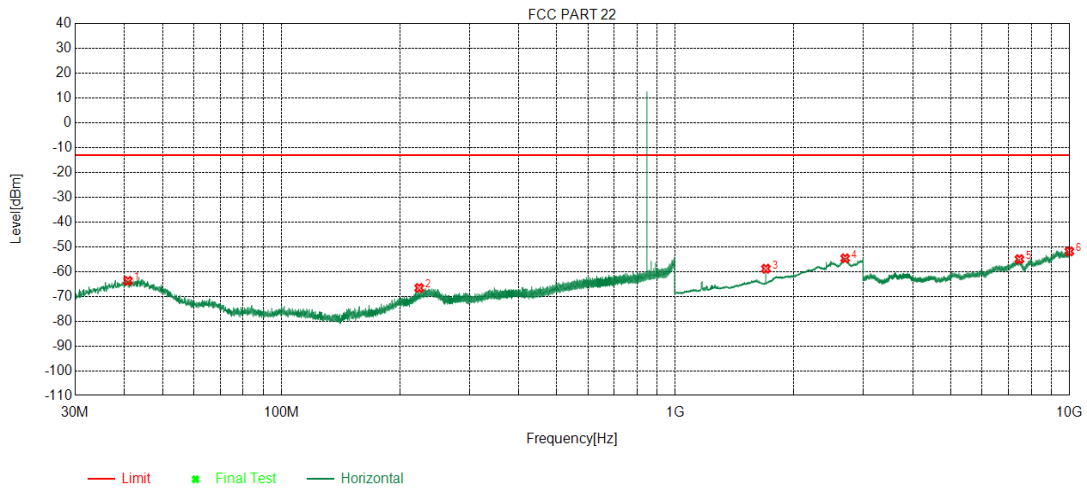
Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	106.4398	-69.77	-64.19	-13.00	51.19	Vertical
2	470.2080	-69.76	-65.54	-13.00	52.54	Vertical
3	1700.1400	-66.83	-61.98	-13.00	48.98	Vertical
4	2709.1418	-67.45	-55.86	-13.00	42.86	Vertical
5	7396.6132	-55.05	-54.49	-13.00	41.49	Vertical
6	9301.1434	-57.49	-51.39	-13.00	38.39	Vertical



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7.17. Test Band = GSM_850 UP ANT
7.17.1. Test Channel = High Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	40.8645	-70.52	-63.72	-13.00	50.72	Horizontal
2	223.9612	-68.33	-66.59	-13.00	53.59	Horizontal
3	1697.3395	-62.40	-58.82	-13.00	45.82	Horizontal
4	2696.7393	-67.46	-54.62	-13.00	41.62	Horizontal
5	7464.7488	-54.95	-54.97	-13.00	41.97	Horizontal
6	9992.7664	-57.37	-51.83	-13.00	38.83	Horizontal



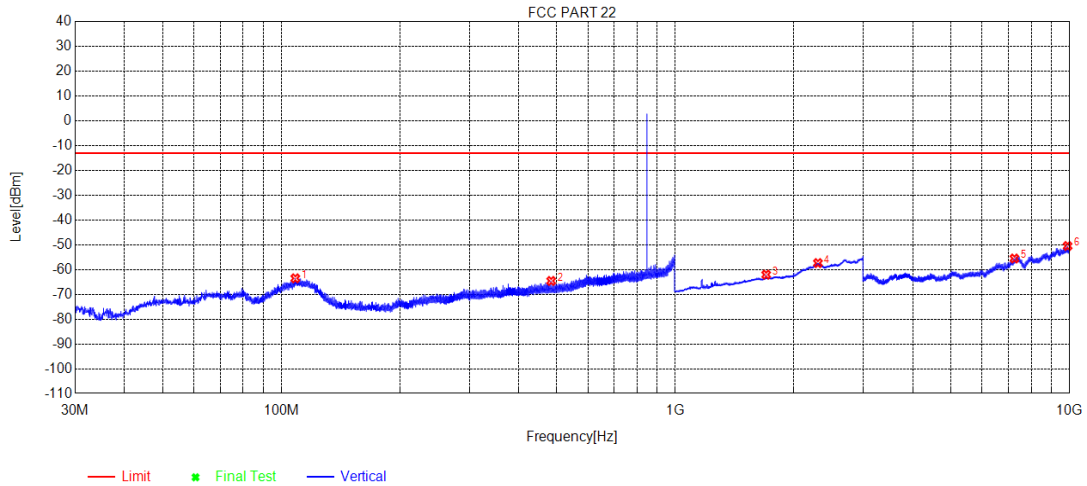
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7.18. Test Band = GSM_850 UP ANT

7.18.1. Test Channel = High Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	108.6224	-69.60	-63.51	-13.00	50.51	Vertical
2	484.1282	-68.78	-64.56	-13.00	51.56	Vertical
3	1700.1400	-66.88	-62.03	-13.00	49.03	Vertical
4	2300.2601	-67.62	-57.36	-13.00	44.36	Vertical
5	7248.4416	-55.61	-55.51	-13.00	42.51	Vertical
6	9891.9631	-56.85	-50.47	-13.00	37.47	Vertical



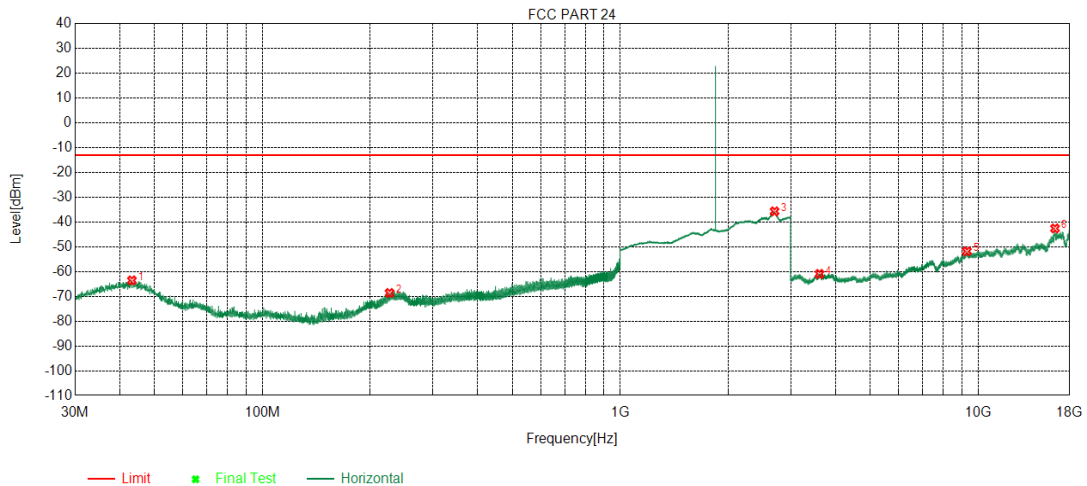
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7.19. Test Band = GSM_1900 UP ANT

7.19.1. Test Channel = Low Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	43.2412	-70.47	-63.54	-13.00	50.54	Horizontal
2	226.8713	-70.90	-68.63	-13.00	55.63	Horizontal
3	2699.9400	-68.60	-35.67	-13.00	22.67	Horizontal
4	3604.0201	-52.84	-60.94	-13.00	47.94	Horizontal
5	9306.2102	-57.71	-51.83	-13.00	38.83	Horizontal
6	16399.446	-56.99	-42.55	-13.00	29.55	Horizontal



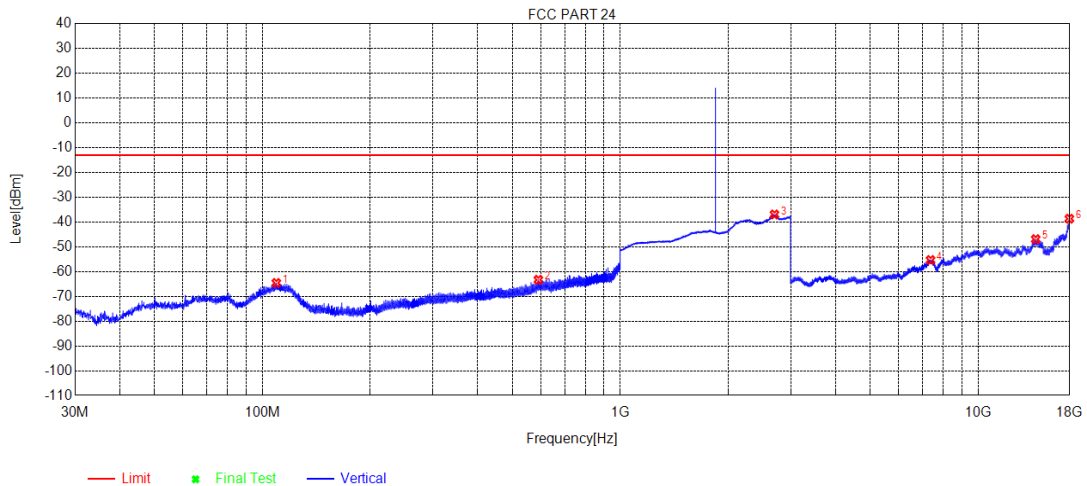
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7.20. Test Band = GSM_1900 UP ANT

7.20.1. Test Channel = Low Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	109.4955	-70.86	-64.57	-13.00	51.57	Vertical
2	590.8335	-70.48	-63.29	-13.00	50.29	Vertical
3	2697.9396	-68.55	-36.92	-13.00	23.92	Vertical
4	7364.6455	-55.85	-55.32	-13.00	42.32	Vertical
5	14485.382	-59.29	-46.90	-13.00	33.90	Vertical
6	17988.999	-56.24	-38.64	-13.00	25.64	Vertical



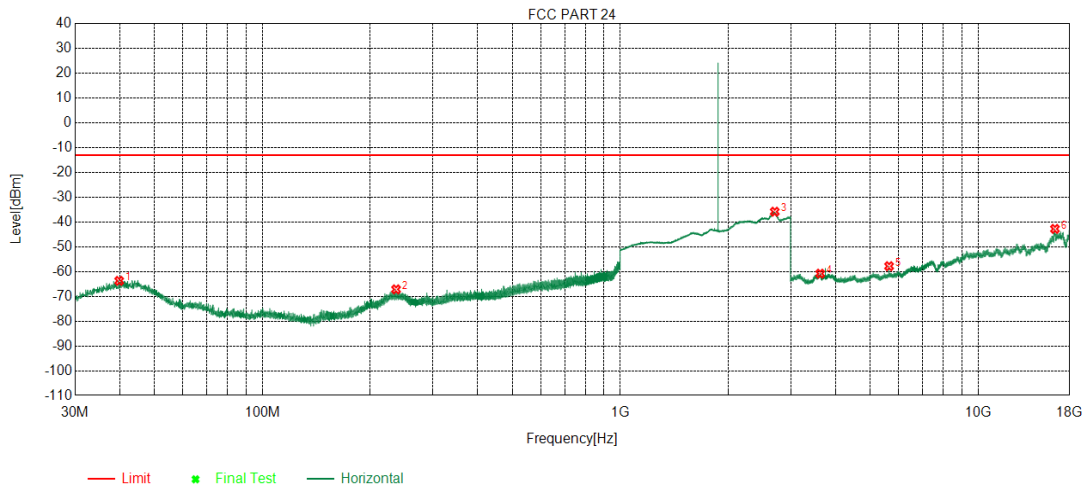
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7.21. Test Band = GSM_1900 UP ANT

7.21.1. Test Channel = Mid Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	39.8460	-70.43	-63.72	-13.00	50.72	Horizontal
2	236.5233	-69.96	-67.16	-13.00	54.16	Horizontal
3	2703.1406	-68.65	-35.82	-13.00	22.82	Horizontal
4	3620.5207	-52.64	-60.82	-13.00	47.82	Horizontal
5	5640.0880	-51.77	-57.81	-13.00	44.81	Horizontal
6	16394.946	-57.10	-42.74	-13.00	29.74	Horizontal

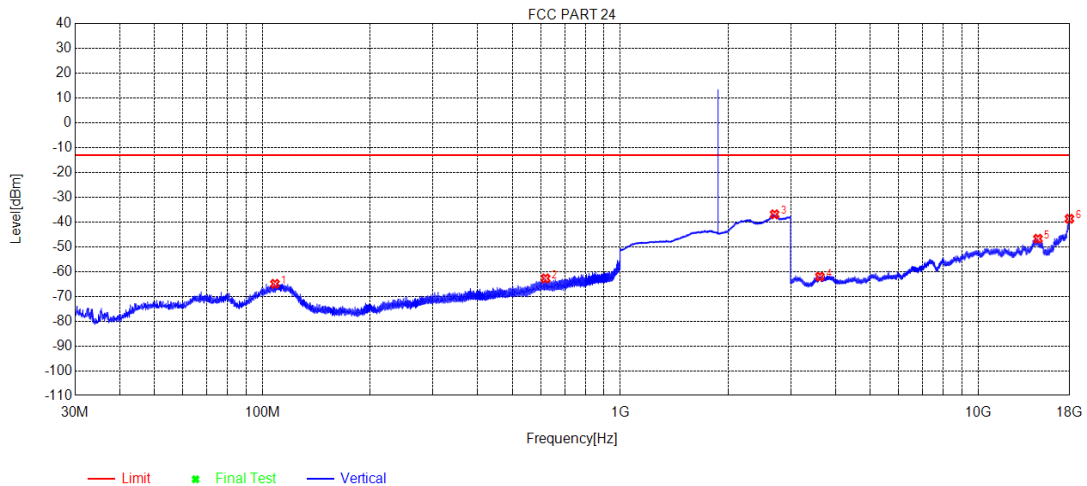


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7.22. Test Band = GSM_1900 UP ANT

7.22.1. Test Channel = Mid Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	108.5254	-70.98	-64.91	-13.00	51.91	Vertical
2	619.1105	-70.33	-62.75	-13.00	49.75	Vertical
3	2700.3401	-68.54	-36.87	-13.00	23.87	Vertical
4	3613.0204	-52.90	-62.02	-13.00	49.02	Vertical
5	14695.889	-58.87	-46.73	-13.00	33.73	Vertical
6	17992.999	-56.37	-38.67	-13.00	25.67	Vertical

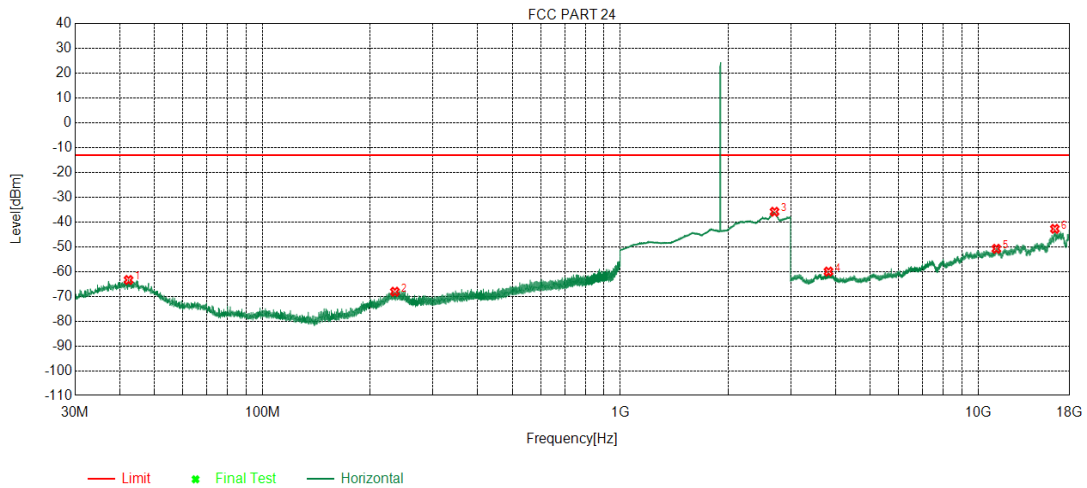


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7.23. Test Band = GSM_1900 UP ANT
7.23.1. Test Channel = High Channel

Test Graph



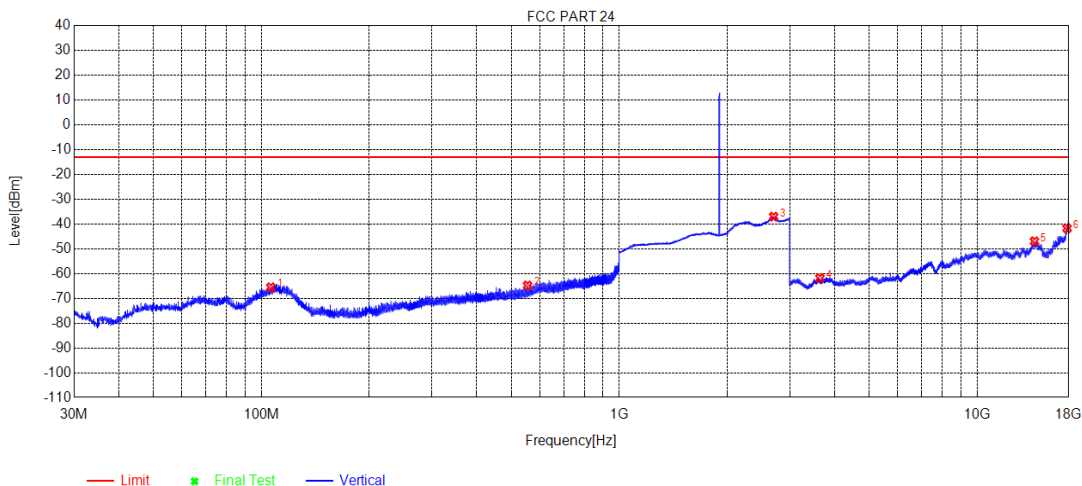
Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.3196	-70.26	-63.38	-13.00	50.38	Horizontal
2	234.6802	-70.92	-68.11	-13.00	55.11	Horizontal
3	2699.1398	-68.74	-35.83	-13.00	22.83	Horizontal
4	3819.5273	-51.75	-59.98	-13.00	46.98	Horizontal
5	11245.7749	-56.87	-50.78	-13.00	37.78	Horizontal
6	16381.946	-56.86	-42.73	-13.00	29.73	Horizontal



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7.24. Test Band = GSM_1900 UP ANT
7.24.1. Test Channel = High Channel

Test Graph



Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	106.3428	-71.07	-65.51	-13.00	52.51	Vertical
2	554.5537	-70.17	-64.78	-13.00	51.78	Vertical
3	2700.7401	-68.65	-36.99	-13.00	23.99	Vertical
4	3638.5213	-52.63	-61.82	-13.00	48.82	Vertical
5	14461.382	-59.16	-46.96	-13.00	33.96	Vertical
6	17834.994	-56.33	-41.70	-13.00	28.70	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 18GHz 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.





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	4.10	0.004975	±2.5	PASS
GSM850	128	VN	NT	6.68	0.008105	±2.5	PASS
GSM850	128	VH	NT	6.65	0.008068	±2.5	PASS
GSM850	190	VL	NT	14.92	0.017834	±2.5	PASS
GSM850	190	VN	NT	11.46	0.013698	±2.5	PASS
GSM850	190	VH	NT	13.37	0.015981	±2.5	PASS
GSM850	251	VL	NT	9.78	0.011522	±2.5	PASS
GSM850	251	VN	NT	7.75	0.009131	±2.5	PASS
GSM850	251	VH	NT	5.13	0.006044	±2.5	PASS
EGPRS850	128	VL	NT	24.70	0.029968	±2.5	PASS
EGPRS850	128	VN	NT	26.67	0.032359	±2.5	PASS
EGPRS850	128	VH	NT	22.15	0.026875	±2.5	PASS
EGPRS850	190	VL	NT	32.64	0.039015	±2.5	PASS
EGPRS850	190	VN	NT	29.57	0.035345	±2.5	PASS
EGPRS850	190	VH	NT	31.28	0.037389	±2.5	PASS
EGPRS850	251	VL	NT	27.51	0.032410	±2.5	PASS
EGPRS850	251	VN	NT	22.79	0.026850	±2.5	PASS
EGPRS850	251	VH	NT	25.93	0.030549	±2.5	PASS
GSM1900	512	VL	NT	19.05	0.010296	±2.5	PASS
GSM1900	512	VN	NT	18.05	0.009756	±2.5	PASS
GSM1900	512	VH	NT	19.37	0.010469	±2.5	PASS
GSM1900	661	VL	NT	19.15	0.010186	±2.5	PASS
GSM1900	661	VN	NT	19.79	0.010527	±2.5	PASS
GSM1900	661	VH	NT	21.57	0.011473	±2.5	PASS
GSM1900	810	VL	NT	0.10	0.000052	±2.5	PASS
GSM1900	810	VN	NT	6.88	0.003602	±2.5	PASS
GSM1900	810	VH	NT	1.45	0.000759	±2.5	PASS
EGPRS1900	512	VL	NT	32.61	0.017625	±2.5	PASS
EGPRS1900	512	VN	NT	32.22	0.017414	±2.5	PASS
EGPRS1900	512	VH	NT	35.00	0.018917	±2.5	PASS



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EGPRS1900	661	VL	NT	31.51	0.016761	±2.5	PASS
EGPRS1900	661	VN	NT	33.45	0.017793	±2.5	PASS
EGPRS1900	661	VH	NT	34.77	0.018495	±2.5	PASS
EGPRS1900	810	VL	NT	27.41	0.014352	±2.5	PASS
EGPRS1900	810	VN	NT	26.60	0.013928	±2.5	PASS
EGPRS1900	810	VH	NT	31.28	0.016379	±2.5	PASS

8.2. Frequency Error Vs Temperature

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	7.17	0.008699	±2.5	PASS
GSM850	128	NV	-20	6.97	0.008457	±2.5	PASS
GSM850	128	NV	-10	3.23	0.003919	±2.5	PASS
GSM850	128	NV	0	6.01	0.007292	±2.5	PASS
GSM850	128	NV	10	6.13	0.007438	±2.5	PASS
GSM850	128	NV	20	9.78	0.011866	±2.5	PASS
GSM850	128	NV	30	11.04	0.013395	±2.5	PASS
GSM850	128	NV	40	6.23	0.007559	±2.5	PASS
GSM850	128	NV	50	8.91	0.010810	±2.5	PASS
GSM850	190	NV	-30	8.81	0.010531	±2.5	PASS
GSM850	190	NV	-20	11.17	0.013352	±2.5	PASS
GSM850	190	NV	-10	13.20	0.015778	±2.5	PASS
GSM850	190	NV	0	7.72	0.009228	±2.5	PASS
GSM850	190	NV	10	13.88	0.016591	±2.5	PASS
GSM850	190	NV	20	10.56	0.012623	±2.5	PASS
GSM850	190	NV	30	11.88	0.014200	±2.5	PASS
GSM850	190	NV	40	10.94	0.013077	±2.5	PASS
GSM850	190	NV	50	8.39	0.010029	±2.5	PASS
GSM850	251	NV	-30	3.10	0.003652	±2.5	PASS
GSM850	251	NV	-20	3.39	0.003994	±2.5	PASS
GSM850	251	NV	-10	8.07	0.009508	±2.5	PASS
GSM850	251	NV	0	6.07	0.007151	±2.5	PASS
GSM850	251	NV	10	8.23	0.009696	±2.5	PASS
GSM850	251	NV	20	1.68	0.001979	±2.5	PASS
GSM850	251	NV	30	6.20	0.007304	±2.5	PASS
GSM850	251	NV	40	12.17	0.014338	±2.5	PASS



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GSM850	251	NV	50	6.01	0.007081	±2.5	PASS
EGPRS850	128	NV	-30	27.44	0.033293	±2.5	PASS
EGPRS850	128	NV	-20	25.76	0.031255	±2.5	PASS
EGPRS850	128	NV	-10	25.12	0.030478	±2.5	PASS
EGPRS850	128	NV	0	24.86	0.030163	±2.5	PASS
EGPRS850	128	NV	10	25.15	0.030514	±2.5	PASS
EGPRS850	128	NV	20	27.93	0.033887	±2.5	PASS
EGPRS850	128	NV	30	30.41	0.036896	±2.5	PASS
EGPRS850	128	NV	40	27.83	0.033766	±2.5	PASS
EGPRS850	128	NV	50	25.41	0.030830	±2.5	PASS
EGPRS850	190	NV	-30	30.32	0.036242	±2.5	PASS
EGPRS850	190	NV	-20	29.22	0.034927	±2.5	PASS
EGPRS850	190	NV	-10	33.96	0.040593	±2.5	PASS
EGPRS850	190	NV	0	32.64	0.039015	±2.5	PASS
EGPRS850	190	NV	10	31.06	0.037126	±2.5	PASS
EGPRS850	190	NV	20	30.87	0.036899	±2.5	PASS
EGPRS850	190	NV	30	33.03	0.039481	±2.5	PASS
EGPRS850	190	NV	40	31.41	0.037545	±2.5	PASS
EGPRS850	190	NV	50	29.86	0.035692	±2.5	PASS
EGPRS850	251	NV	-30	23.96	0.028228	±2.5	PASS
EGPRS850	251	NV	-20	27.83	0.032787	±2.5	PASS
EGPRS850	251	NV	-10	25.83	0.030431	±2.5	PASS
EGPRS850	251	NV	0	26.57	0.031303	±2.5	PASS
EGPRS850	251	NV	10	25.63	0.030196	±2.5	PASS
EGPRS850	251	NV	20	28.73	0.033848	±2.5	PASS
EGPRS850	251	NV	30	27.44	0.032328	±2.5	PASS
EGPRS850	251	NV	40	27.38	0.032257	±2.5	PASS
EGPRS850	251	NV	50	26.22	0.030891	±2.5	PASS
GSM1900	512	NV	-30	19.21	0.010383	±2.5	PASS
GSM1900	512	NV	-20	19.53	0.010556	±2.5	PASS
GSM1900	512	NV	-10	25.31	0.013680	±2.5	PASS
GSM1900	512	NV	0	24.89	0.013453	±2.5	PASS
GSM1900	512	NV	10	19.53	0.010556	±2.5	PASS
GSM1900	512	NV	20	19.66	0.010626	±2.5	PASS
GSM1900	512	NV	30	21.44	0.011588	±2.5	PASS
GSM1900	512	NV	40	23.34	0.012615	±2.5	PASS
GSM1900	512	NV	50	23.60	0.012755	±2.5	PASS



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GSM1900	661	NV	-30	20.21	0.010750	±2.5	PASS
GSM1900	661	NV	-20	17.79	0.009463	±2.5	PASS
GSM1900	661	NV	-10	19.63	0.010441	±2.5	PASS
GSM1900	661	NV	0	13.53	0.007197	±2.5	PASS
GSM1900	661	NV	10	19.76	0.010511	±2.5	PASS
GSM1900	661	NV	20	16.40	0.008723	±2.5	PASS
GSM1900	661	NV	30	19.44	0.010340	±2.5	PASS
GSM1900	661	NV	40	21.63	0.011505	±2.5	PASS
GSM1900	661	NV	50	17.85	0.009495	±2.5	PASS
GSM1900	810	NV	-30	0.58	0.000304	±2.5	PASS
GSM1900	810	NV	-20	-1.52	-0.000796	±2.5	PASS
GSM1900	810	NV	-10	-2.74	-0.001435	±2.5	PASS
GSM1900	810	NV	0	0.29	0.000152	±2.5	PASS
GSM1900	810	NV	10	2.84	0.001487	±2.5	PASS
GSM1900	810	NV	20	-0.48	-0.000251	±2.5	PASS
GSM1900	810	NV	30	-1.61	-0.000843	±2.5	PASS
GSM1900	810	NV	40	-0.97	-0.000508	±2.5	PASS
GSM1900	810	NV	50	-0.81	-0.000424	±2.5	PASS
EGPRS1900	512	NV	-30	33.61	0.018166	±2.5	PASS
EGPRS1900	512	NV	-20	33.58	0.018149	±2.5	PASS
EGPRS1900	512	NV	-10	29.93	0.016177	±2.5	PASS
EGPRS1900	512	NV	0	33.84	0.018290	±2.5	PASS
EGPRS1900	512	NV	10	34.22	0.018495	±2.5	PASS
EGPRS1900	512	NV	20	34.71	0.018760	±2.5	PASS
EGPRS1900	512	NV	30	33.71	0.018220	±2.5	PASS
EGPRS1900	512	NV	40	31.70	0.017133	±2.5	PASS
EGPRS1900	512	NV	50	31.87	0.017225	±2.5	PASS
EGPRS1900	661	NV	-30	35.32	0.018787	±2.5	PASS
EGPRS1900	661	NV	-20	30.96	0.016468	±2.5	PASS
EGPRS1900	661	NV	-10	33.67	0.017910	±2.5	PASS
EGPRS1900	661	NV	0	33.13	0.017622	±2.5	PASS
EGPRS1900	661	NV	10	32.12	0.017085	±2.5	PASS
EGPRS1900	661	NV	20	31.54	0.016777	±2.5	PASS
EGPRS1900	661	NV	30	30.32	0.016128	±2.5	PASS
EGPRS1900	661	NV	40	25.60	0.013617	±2.5	PASS
EGPRS1900	661	NV	50	32.58	0.017330	±2.5	PASS
EGPRS1900	810	NV	-30	31.51	0.016499	±2.5	PASS



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EGPRS1900	810	NV	-20	34.93	0.018290	±2.5	PASS
EGPRS1900	810	NV	-10	26.60	0.013928	±2.5	PASS
EGPRS1900	810	NV	0	31.83	0.016667	±2.5	PASS
EGPRS1900	810	NV	10	30.83	0.016143	±2.5	PASS
EGPRS1900	810	NV	20	28.51	0.014928	±2.5	PASS
EGPRS1900	810	NV	30	33.48	0.017531	±2.5	PASS
EGPRS1900	810	NV	40	26.70	0.013981	±2.5	PASS
EGPRS1900	810	NV	50	26.05	0.013640	±2.5	PASS

The End



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