



Appendix B

GSM 850 & 1900



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CONTENT

	Page
1. EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA.....	4
1.1. Test Result for Down Ant.....	4
1.2. Test Result for Up Ant.....	5
2. PEAK-TO-AVERAGE RATIO.....	6
2.1. Test Result.....	6
2.2. Part II - Test Plots.....	6
3. MODULATION CHARACTERISTICS.....	13
3.1. For GSM.....	13
3.1.1. Test Band = GSM 850.....	13
3.1.1.1. Test Mode = GSM/TM1.....	13
3.1.1.1.1. Test Channel = MCH.....	13
3.1.1.2. Test Mode = GSM/TM2.....	14
3.1.1.2.1. Test Channel = MCH.....	14
3.1.2. Test Band = GSM 1900.....	15
3.1.2.1. Test Mode = GSM/TM1.....	15
3.1.2.1.1. Test Channel = MCH.....	15
3.1.2.2. Test Mode = GSM/TM2.....	16
3.1.2.2.1. Test Channel = MCH.....	16
4. 26dB BANDWIDTH AND OCCUPIED BANDWIDTH.....	17
4.1. Test Result.....	17
4.2. Test Plots.....	17
5. BAND EDGE COMPLIANCE.....	24
5.1. Test Result.....	24
5.2. Test Plots.....	24
6. SPURIOUS EMISSION AT ANTENNA TERMINAL.....	29
6.1. Test Result.....	29
6.2. Test Plots.....	30
7. FIELD STRENGTH OF SPURIOUS RADIATION.....	61
7.1. Test Band = GSM 1900 (Down Ant).....	61
7.1.1. Test Channel = LCH.....	61
7.1.2. Test Channel = MCH.....	61
7.1.3. Test Channel = HCH.....	61



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7.2. Test Band = GSM 850 (Down Ant)..... 62

7.2.1. Test Channel = LCH..... 62

7.2.2. Test Channel = MCH..... 62

7.2.3. Test Channel = HCH..... 63

7.3. Test Band = GSM 850 (Up Ant)..... 63

7.3.1. Test Channel = LCH..... 63

7.3.2. Test Channel = MCH..... 63

7.3.3. Test Channel = HCH..... 64

8. FREQUENCY STABILITY..... 65

8.1. Frequency Error Vs Voltage..... 65

8.2. Frequency Error Vs Temperature..... 66



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1. Effective (Isotropic) Radiated Power Output Data

1.1. Test Result for Down Ant

Band	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	32.57	24.86	38.45	PASS
GSM850	190	---	32.51	24.8	38.45	PASS
GSM850	251	---	32.59	24.88	38.45	PASS
EGPRS850	128	1	27.30	19.59	38.45	PASS
EGPRS850	128	2	26.00	18.29	38.45	PASS
EGPRS850	128	3	23.66	15.95	38.45	PASS
EGPRS850	128	4	22.24	14.53	38.45	PASS
EGPRS850	190	1	27.44	19.73	38.45	PASS
EGPRS850	190	2	26.10	18.39	38.45	PASS
EGPRS850	190	3	23.75	16.04	38.45	PASS
EGPRS850	190	4	22.52	14.81	38.45	PASS
EGPRS850	251	1	27.66	19.95	38.45	PASS
EGPRS850	251	2	26.66	18.95	38.45	PASS
EGPRS850	251	3	24.00	16.29	38.45	PASS
EGPRS850	251	4	22.90	15.19	38.45	PASS

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	29.81	28.84	33.00	PASS
GSM1900	661	---	29.75	28.78	33.00	PASS
GSM1900	810	---	29.98	29.01	33.00	PASS
EGPRS1900	512	1	26.87	25.90	33.00	PASS
EGPRS1900	512	2	25.91	24.94	33.00	PASS
EGPRS1900	512	3	24.12	23.15	33.00	PASS
EGPRS1900	512	4	22.97	22.00	33.00	PASS
EGPRS1900	661	1	26.52	25.55	33.00	PASS
EGPRS1900	661	2	25.52	24.55	33.00	PASS
EGPRS1900	661	3	23.62	22.65	33.00	PASS
EGPRS1900	661	4	22.52	21.55	33.00	PASS
EGPRS1900	810	1	26.15	25.18	33.00	PASS
EGPRS1900	810	2	25.23	24.26	33.00	PASS
EGPRS1900	810	3	22.22	21.25	33.00	PASS
EGPRS1900	810	4	22.27	21.30	33.00	PASS



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1.2. Test Result for Up Ant

Band	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	32.69	26.04	38.45	PASS
GSM850	190	---	32.71	26.06	38.45	PASS
GSM850	251	---	32.73	26.08	38.45	PASS
EGPRS850	128	1	27.52	20.87	38.45	PASS
EGPRS850	128	2	26.13	19.48	38.45	PASS
EGPRS850	128	3	23.77	17.12	38.45	PASS
EGPRS850	128	4	22.30	15.65	38.45	PASS
EGPRS850	190	1	27.63	20.98	38.45	PASS
EGPRS850	190	2	26.33	19.68	38.45	PASS
EGPRS850	190	3	23.85	17.2	38.45	PASS
EGPRS850	190	4	22.49	15.84	38.45	PASS
EGPRS850	251	1	28.00	21.35	38.45	PASS
EGPRS850	251	2	26.74	20.09	38.45	PASS
EGPRS850	251	3	24.22	17.57	38.45	PASS
EGPRS850	251	4	22.92	16.27	38.45	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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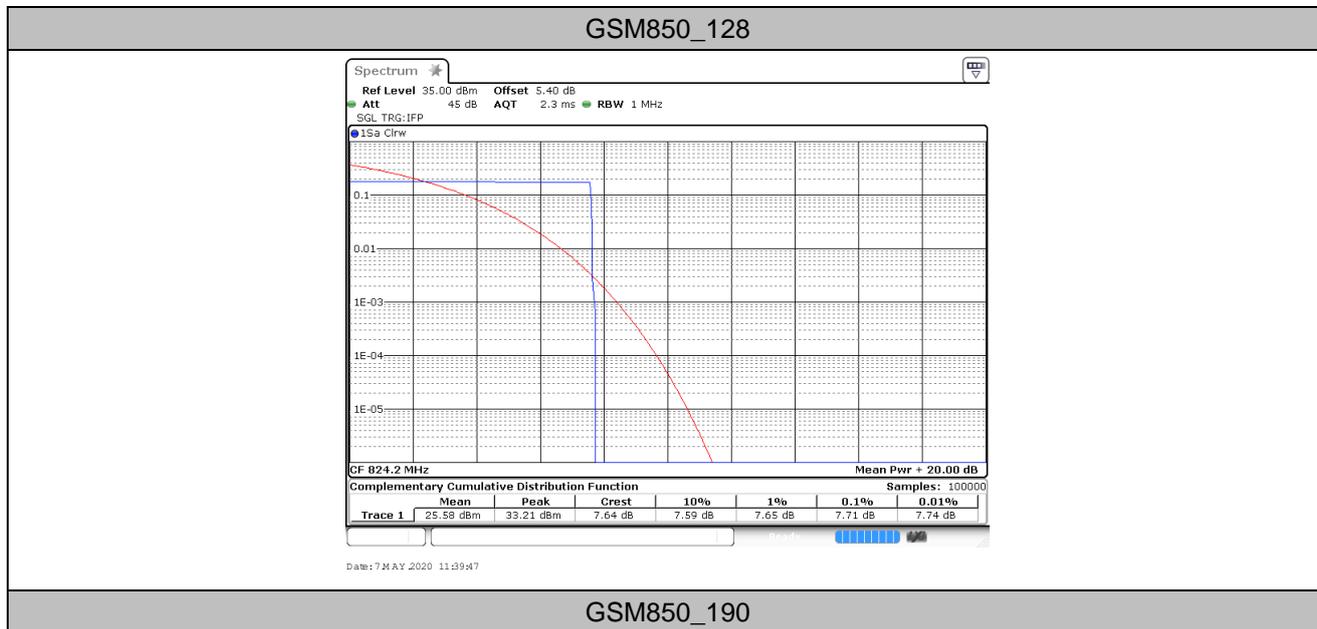
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2. Peak-to-Average Ratio

2.1. Test Result

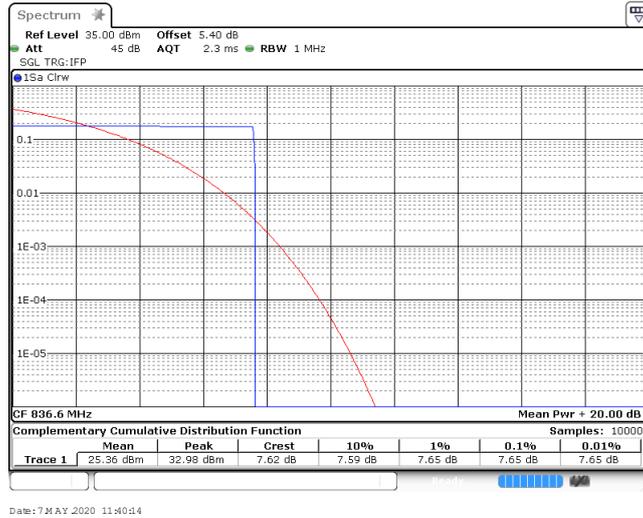
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
GSM850	128	7.68	13	PASS
GSM850	190	7.71	13	PASS
GSM850	251	7.65	13	PASS
EGPRS850	128	10.55	13	PASS
EGPRS850	190	10.41	13	PASS
EGPRS850	251	10.35	13	PASS
GSM1900	512	7.65	13	PASS
GSM1900	661	7.71	13	PASS
GSM1900	810	7.68	13	PASS
EGPRS1900	512	9.77	13	PASS
EGPRS1900	661	10.32	13	PASS
EGPRS1900	810	10.23	13	PASS

2.2. Part II - Test Plots

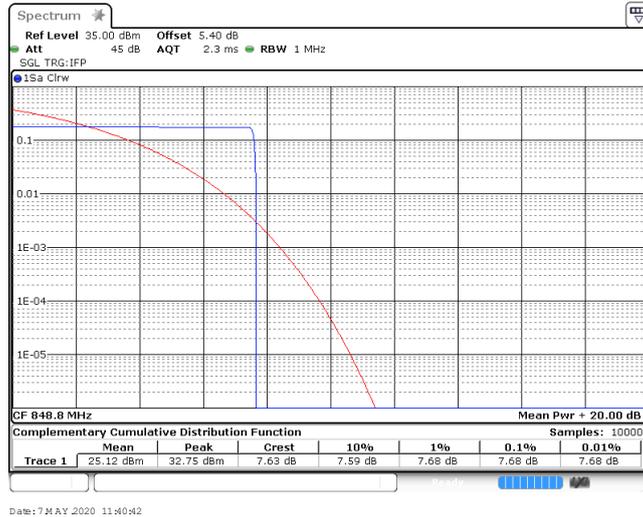


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GSM850_251

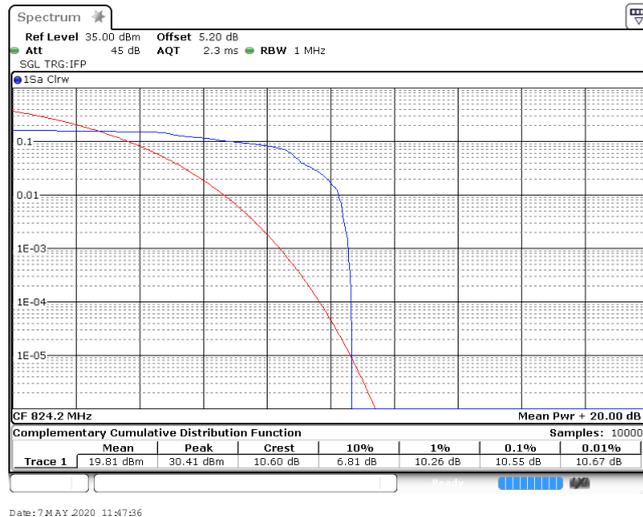


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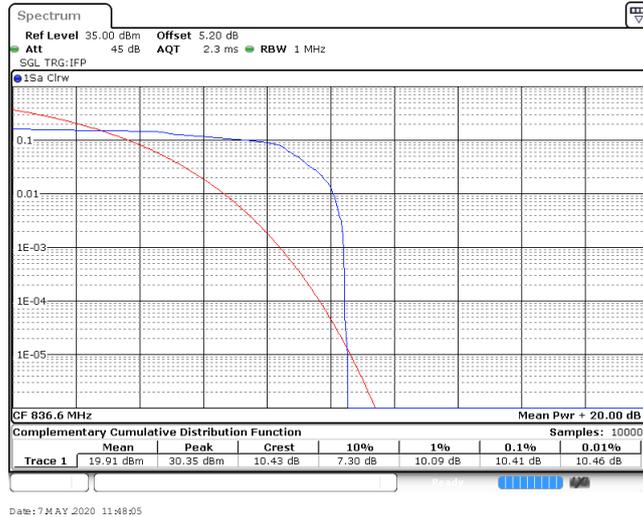
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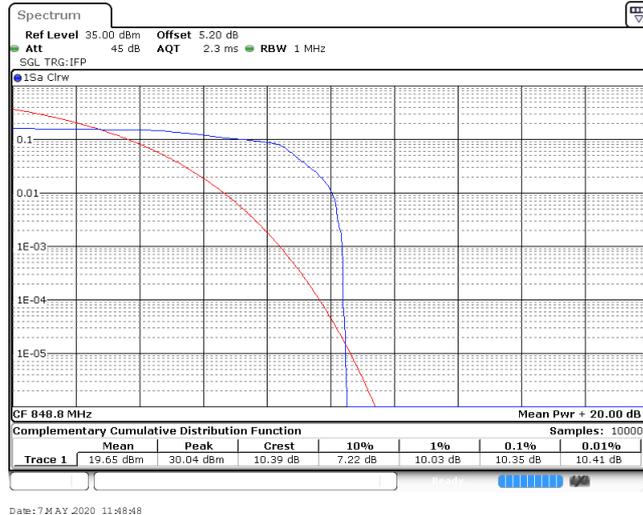


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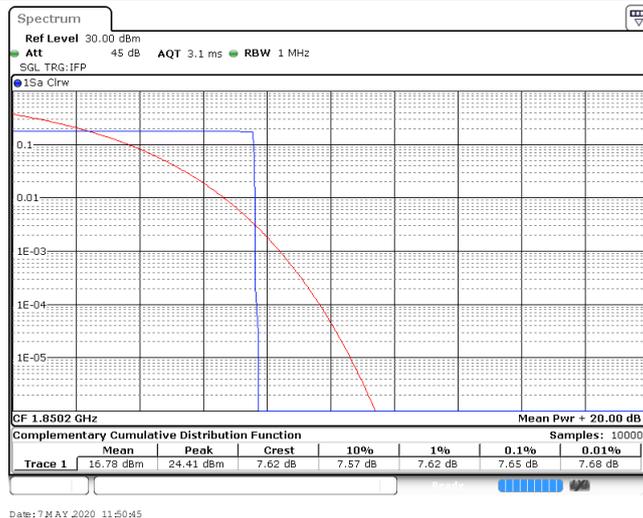
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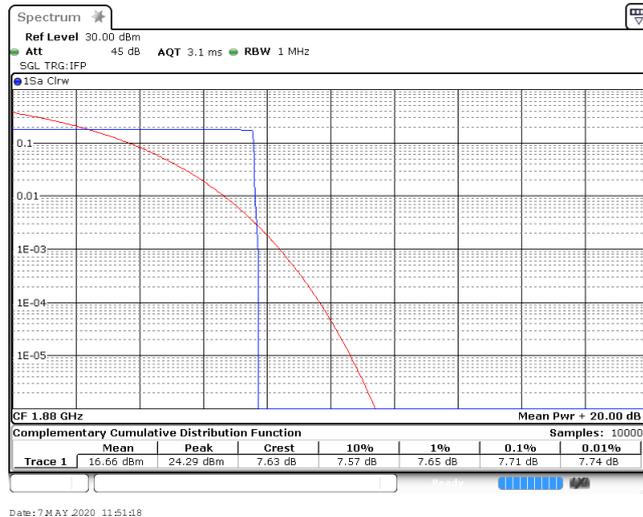
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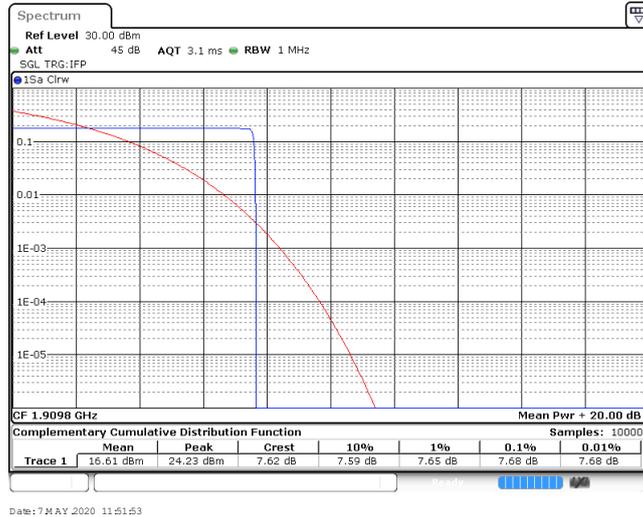
GSM1900_661



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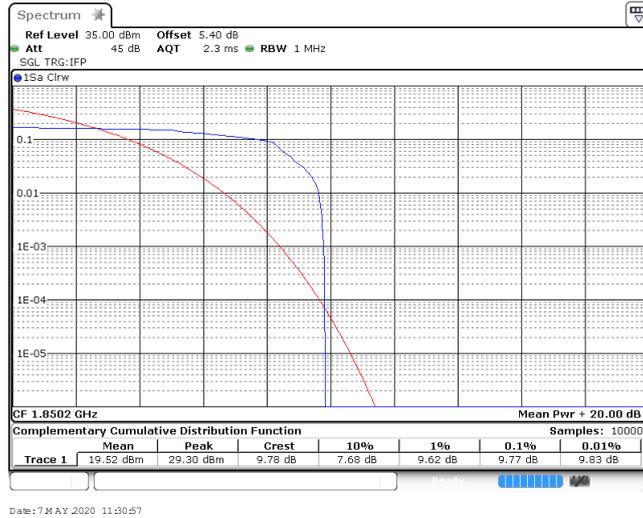
GSM1900_810



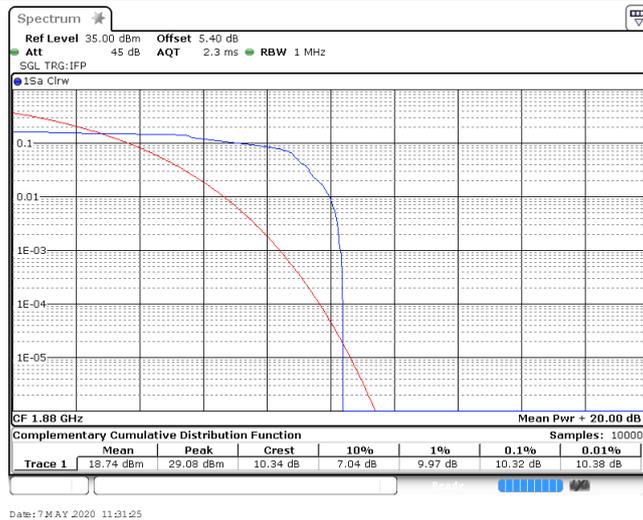
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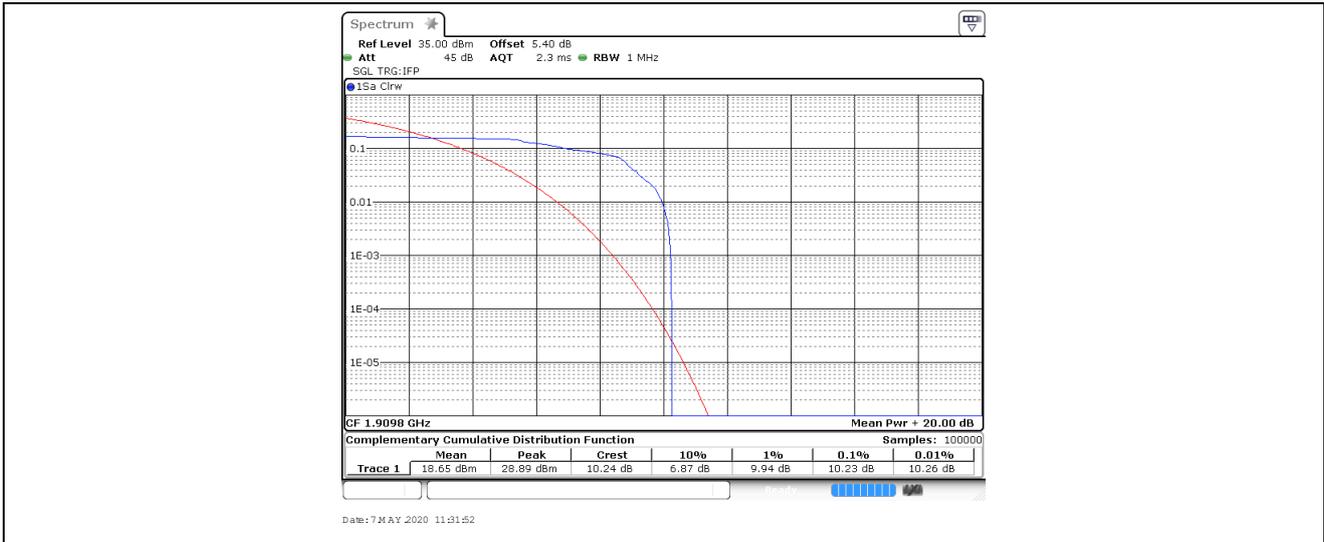


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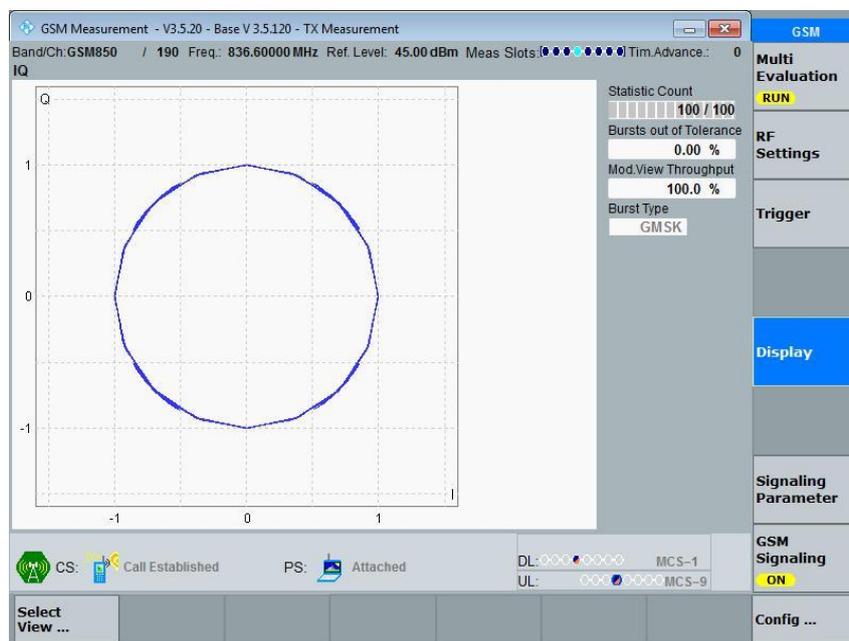
3. Modulation Characteristics

3.1. For GSM

3.1.1. Test Band = GSM 850

3.1.1.1. Test Mode = GSM/TM1

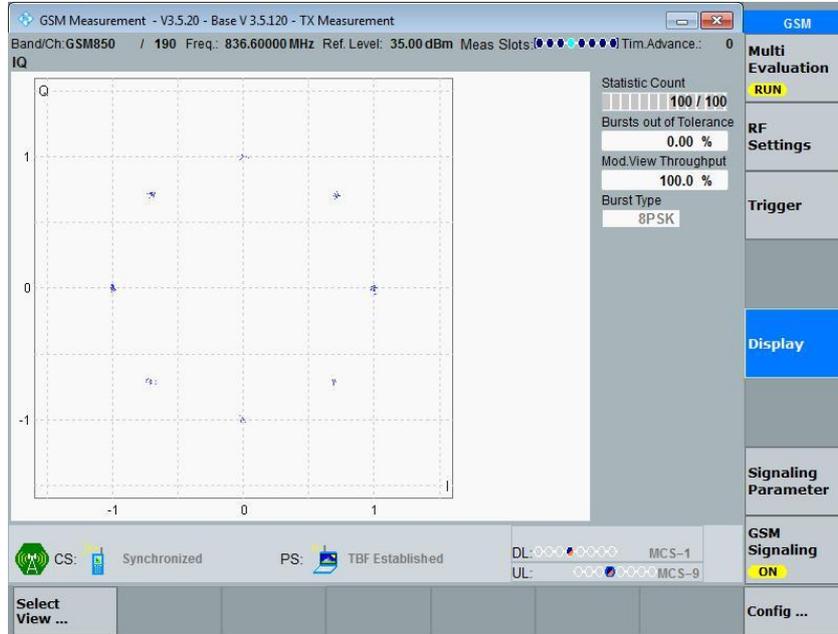
3.1.1.1.1. Test Channel = MCH



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3.1.1.2. Test Mode = GSM/TM2

3.1.1.2.1. Test Channel = MCH

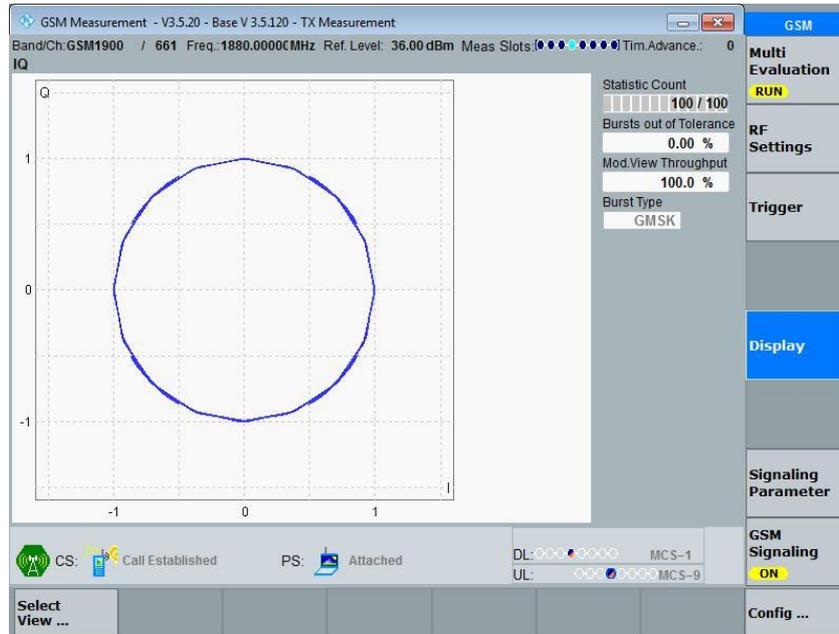


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3.1.2. Test Band = GSM 1900

3.1.2.1. Test Mode = GSM/TM1

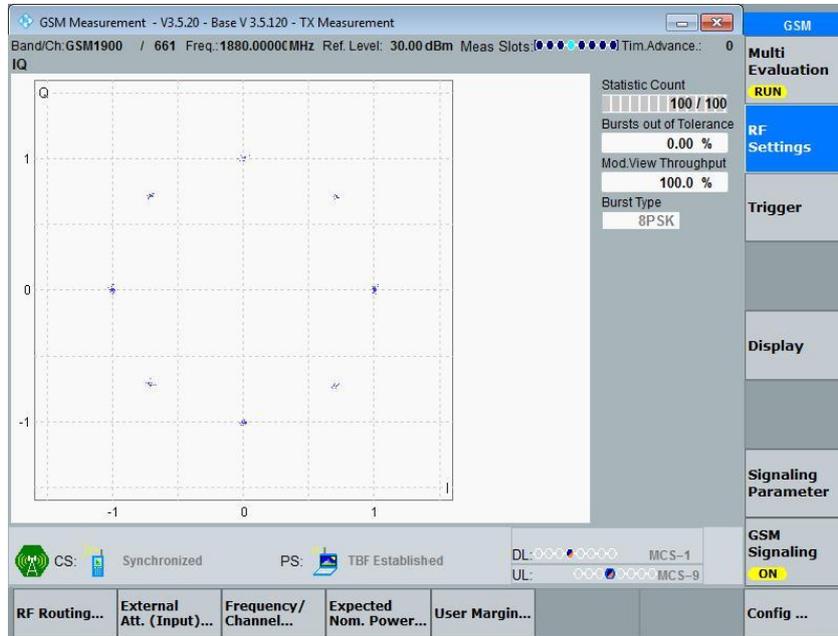
3.1.2.1.1. Test Channel = MCH



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3.1.2.2. Test Mode = GSM/TM2

3.1.2.2.1. Test Channel = MCH



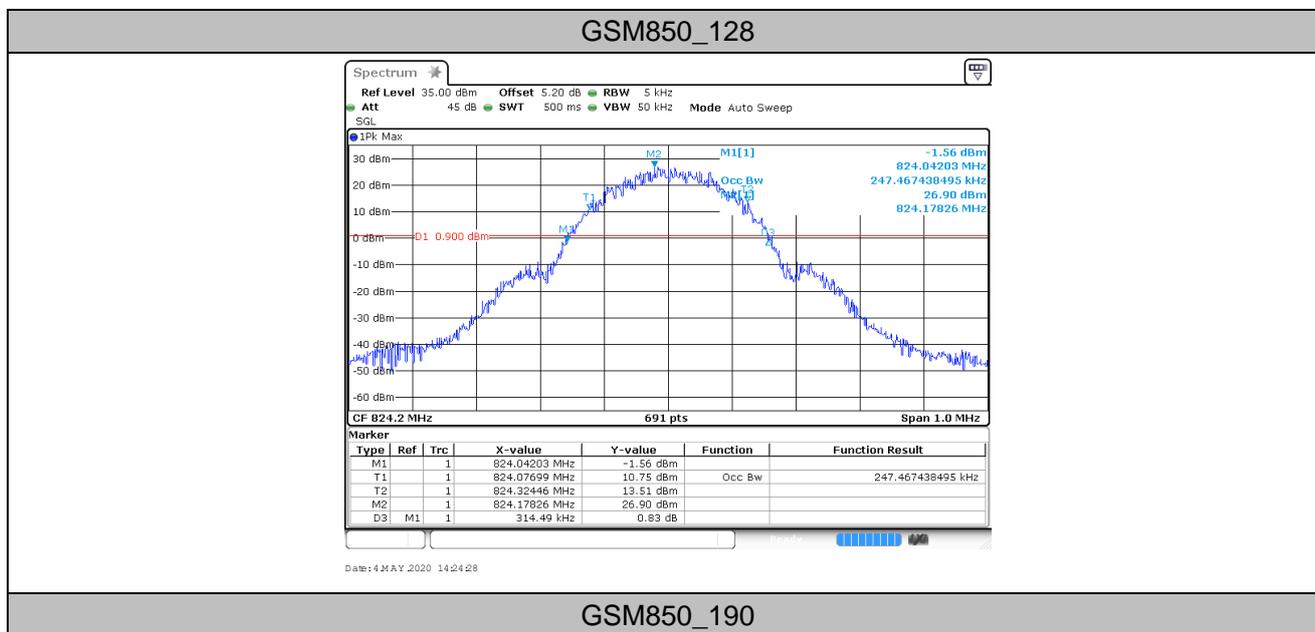
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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

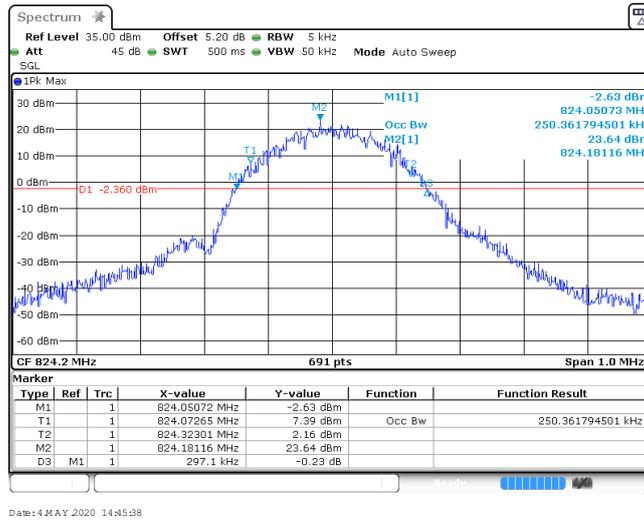
Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
GSM850	128	247.47	314.49	---	PASS
GSM850	190	247.47	310.14	---	PASS
GSM850	251	246.02	302.90	---	PASS
EGPRS850	128	250.36	297.10	---	PASS
EGPRS850	190	247.47	302.90	---	PASS
EGPRS850	251	250.36	294.20	---	PASS
GSM1900	512	246.02	310.14	---	PASS
GSM1900	661	243.13	307.25	---	PASS
GSM1900	810	246.02	310.14	---	PASS
EGPRS1900	512	244.57	301.45	---	PASS
EGPRS1900	661	247.47	298.55	---	PASS
EGPRS1900	810	247.47	301.45	---	PASS

4.2. Test Plots

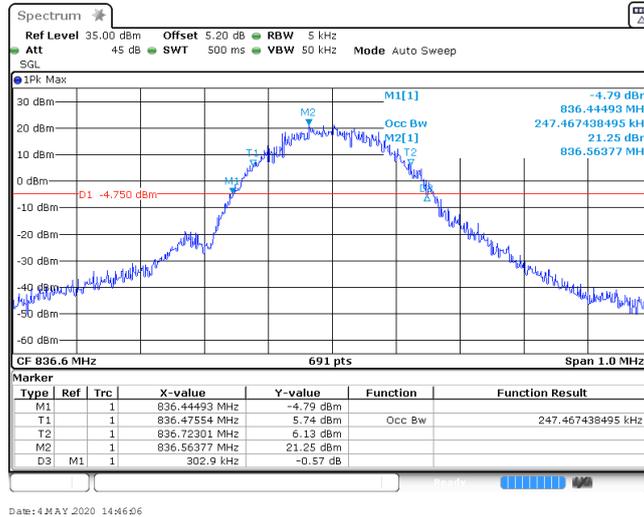


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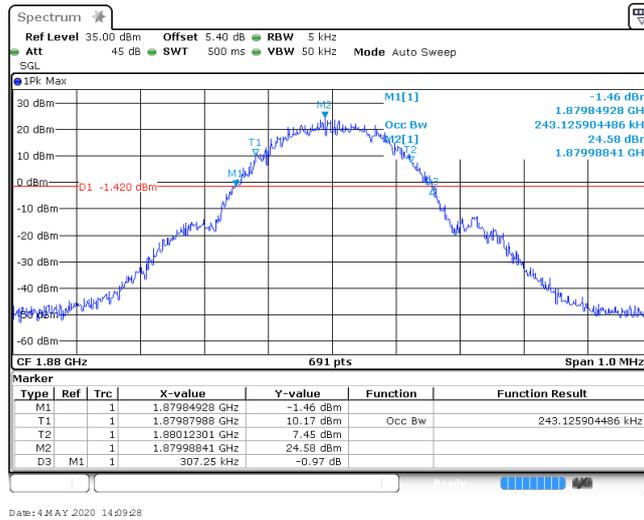
EGPRS850_190



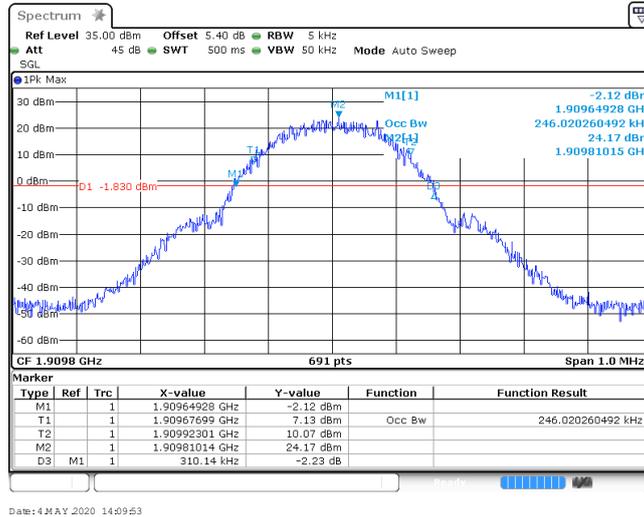
EGPRS850_251



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GSM1900_810

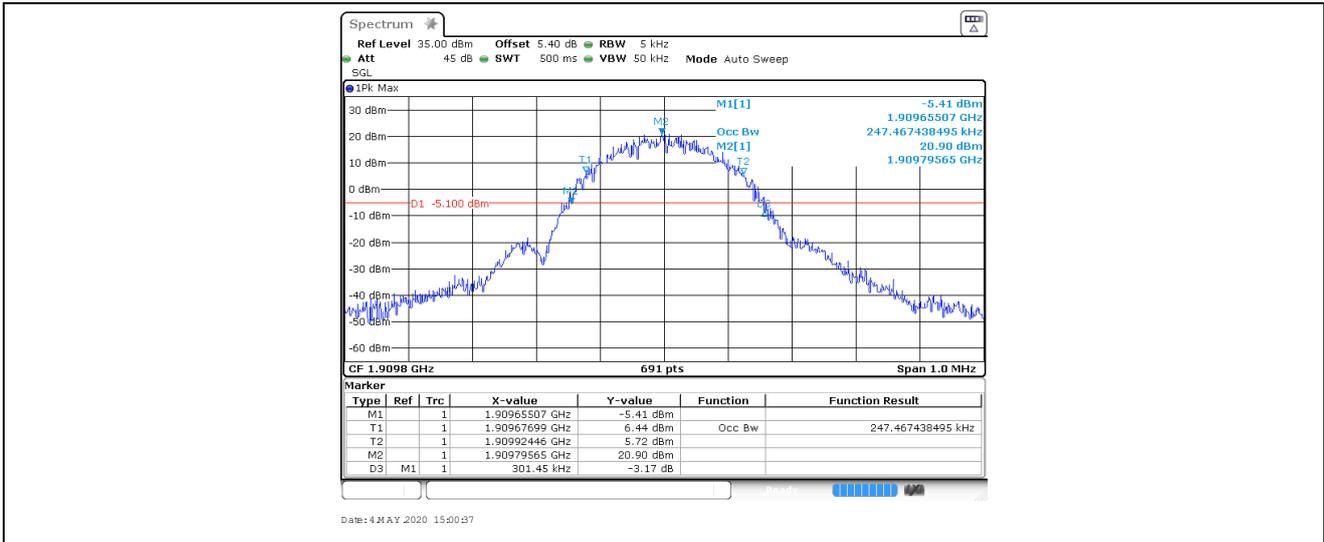


EGPRS1900_512



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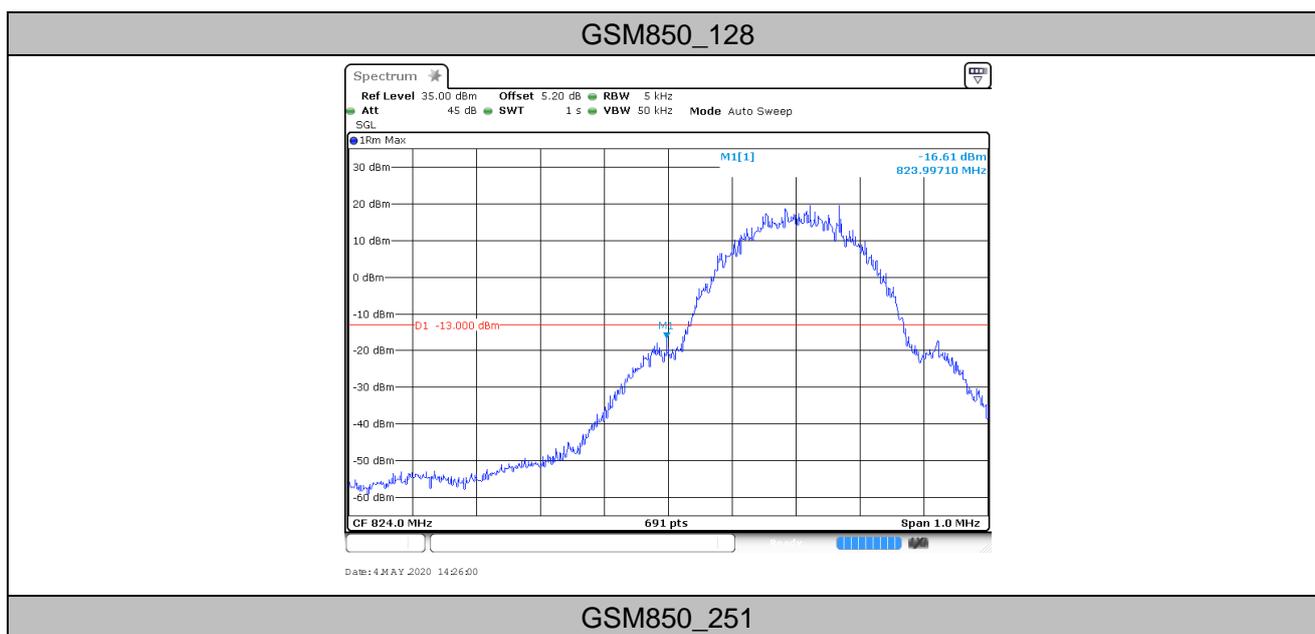
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5. Band Edge Compliance

5.1. Test Result

Band	Channel	Value(dBm)	Limit(dBm)	Verdict
GSM850	128	-16.61	-13	PASS
GSM850	251	-19.53	-13	PASS
EGPRS850	128	-28.01	-13	PASS
EGPRS850	251	-24.86	-13	PASS
GSM1900	512	-21.45	-13	PASS
GSM1900	810	-21.87	-13	PASS
EGPRS1900	512	-26.63	-13	PASS
EGPRS1900	810	-24.31	-13	PASS

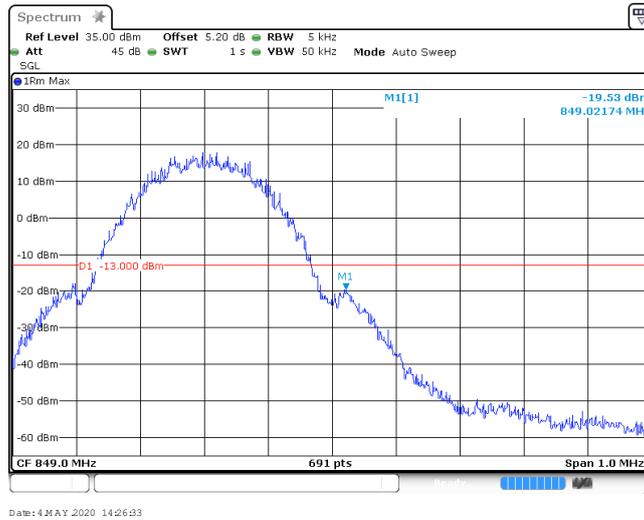
5.2. Test Plots



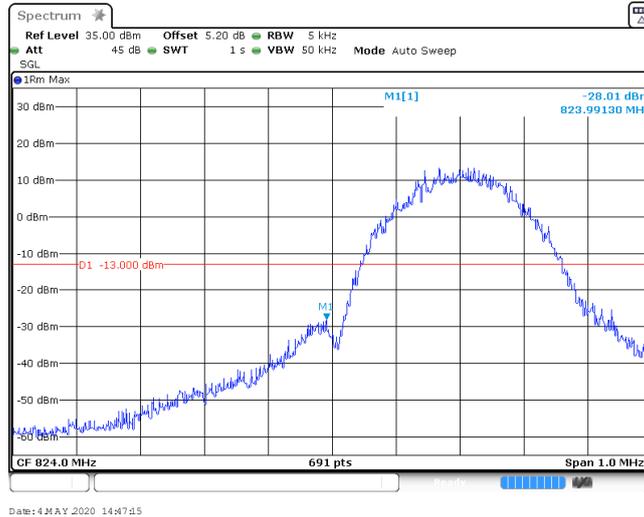
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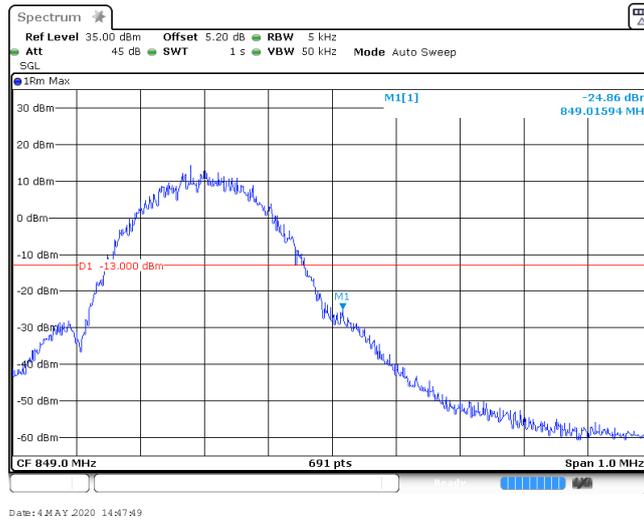
EGPRS850_128



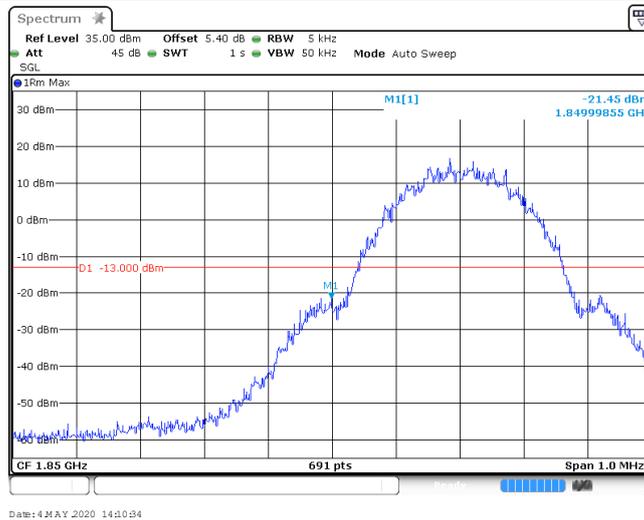
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GSM1900_512

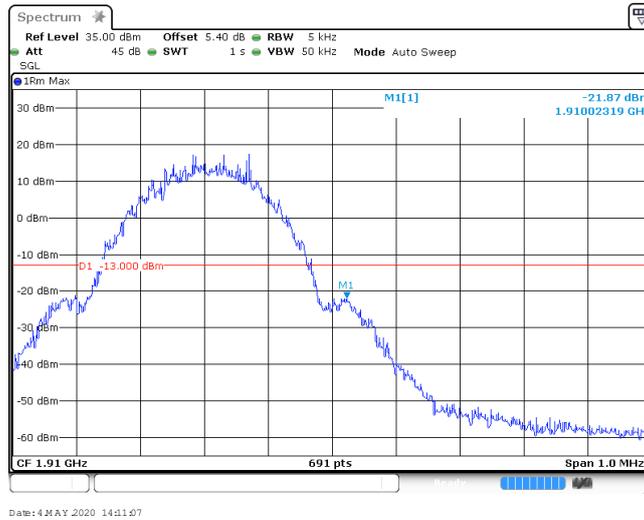


GSM1900_810

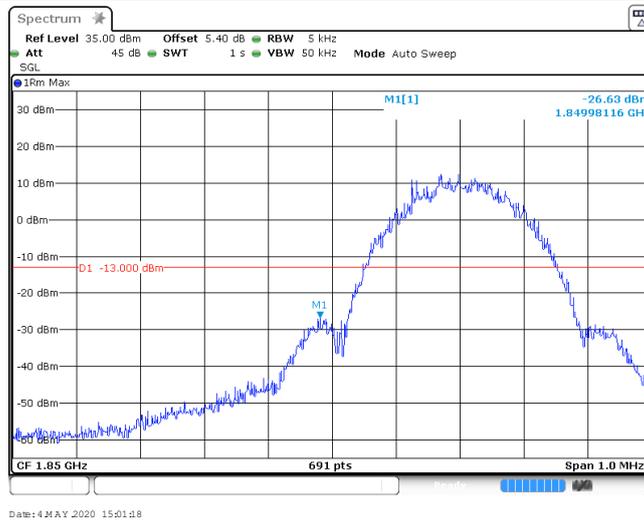


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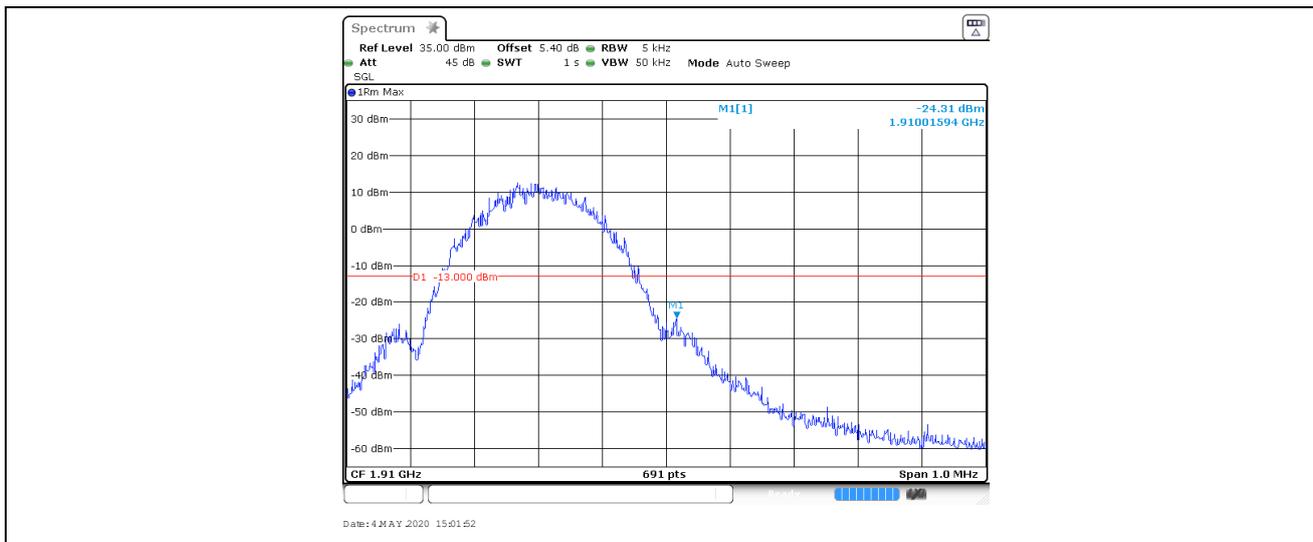


EGPRS1900_810



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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 Result

Band	Channel	Frequency Rang(Mhz)	Value(dBm)	Limit(dBm)	Verdict
GSM850	128	0.009~0.15	-54.98	-33	PASS
GSM850	128	0.15~30	-54.33	-23	PASS
GSM850	128	30~1000	-35.32	-13	PASS
GSM850	128	1000~9000	-33.39	-13	PASS
GSM850	190	0.009~0.15	-55.22	-33	PASS
GSM850	190	0.15~30	-53.50	-23	PASS
GSM850	190	30~1000	-34.75	-13	PASS
GSM850	190	1000~9000	-33.23	-13	PASS
GSM850	251	0.009~0.15	-56.01	-33	PASS
GSM850	251	0.15~30	-54.69	-23	PASS
GSM850	251	30~1000	-35.17	-13	PASS
GSM850	251	1000~9000	-32.67	-13	PASS
EGPRS850	128	0.009~0.15	-47.18	-43	PASS
EGPRS850	128	0.15~30	-39.88	-33	PASS
EGPRS850	128	30~1000	-34.59	-13	PASS
EGPRS850	128	1000~9000	-33.15	-13	PASS
EGPRS850	190	0.009~0.15	-55.52	-43	PASS
EGPRS850	190	0.15~30	-57.69	-33	PASS
EGPRS850	190	30~1000	-34.59	-13	PASS
EGPRS850	190	1000~9000	-33.47	-13	PASS
EGPRS850	251	0.009~0.15	-55.34	-43	PASS
EGPRS850	251	0.15~30	-58.80	-33	PASS
EGPRS850	251	30~1000	-35.09	-13	PASS
EGPRS850	251	1000~9000	-33.51	-13	PASS
GSM1900	512	0.009~0.15	-54.91	-43	PASS
GSM1900	512	0.15~30	-54.05	-33	PASS
GSM1900	512	30~1000	-35.17	-13	PASS



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GSM1900	512	1000~7000	-30.67	-13	PASS
GSM1900	512	7000~13600	-34.63	-13	PASS
GSM1900	512	13600~20000	-32.28	-13	PASS
GSM1900	661	0.009~0.15	-56.25	-43	PASS
GSM1900	661	0.15~30	-54.57	-33	PASS
GSM1900	661	30~1000	-35.52	-13	PASS
GSM1900	661	1000~7000	-29.54	-13	PASS
GSM1900	661	7000~13600	-34.07	-13	PASS
GSM1900	661	13600~20000	-33.14	-13	PASS
GSM1900	810	0.009~0.15	-55.42	-43	PASS
GSM1900	810	0.15~30	-54.22	-33	PASS
GSM1900	810	30~1000	-34.41	-13	PASS
GSM1900	810	1000~7000	-30.18	-13	PASS
GSM1900	810	7000~13600	-33.74	-13	PASS
GSM1900	810	13600~20000	-32.72	-13	PASS
EGPRS1900	512	0.009~0.15	-52.80	-43	PASS
EGPRS1900	512	0.15~30	-56.93	-33	PASS
EGPRS1900	512	30~1000	-35.02	-13	PASS
EGPRS1900	512	1000~7000	-29.62	-13	PASS
EGPRS1900	512	7000~13600	-34.59	-13	PASS
EGPRS1900	512	13600~20000	-32.98	-13	PASS
EGPRS1900	661	0.009~0.15	-53.05	-43	PASS
EGPRS1900	661	0.15~30	-57.79	-33	PASS
EGPRS1900	661	30~1000	-35.60	-13	PASS
EGPRS1900	661	1000~7000	-29.65	-13	PASS
EGPRS1900	661	7000~13600	-34.62	-13	PASS
EGPRS1900	661	13600~20000	-33.14	-13	PASS
EGPRS1900	810	0.009~0.15	-51.82	-43	PASS
EGPRS1900	810	0.15~30	-57.11	-33	PASS
EGPRS1900	810	30~1000	-34.78	-13	PASS
EGPRS1900	810	1000~7000	-30.70	-13	PASS
EGPRS1900	810	7000~13600	-34.67	-13	PASS
EGPRS1900	810	13600~20000	-32.34	-13	PASS

6.2. Test Plots

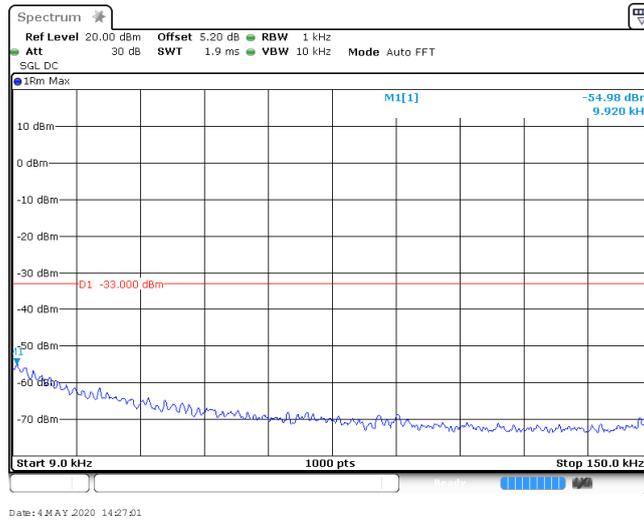
GSM850_128



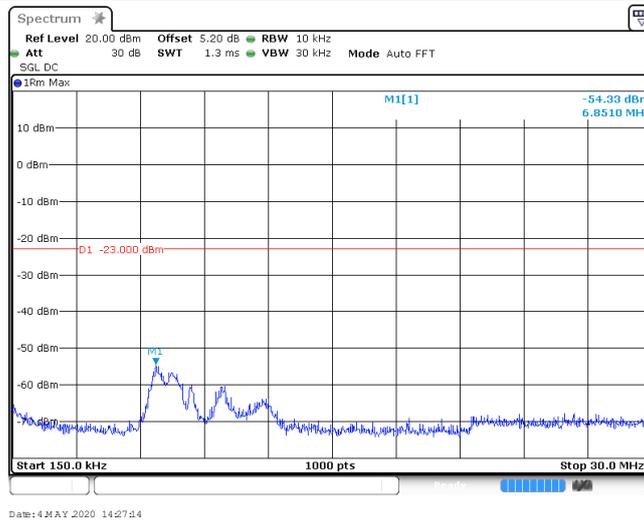
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GSM850_128

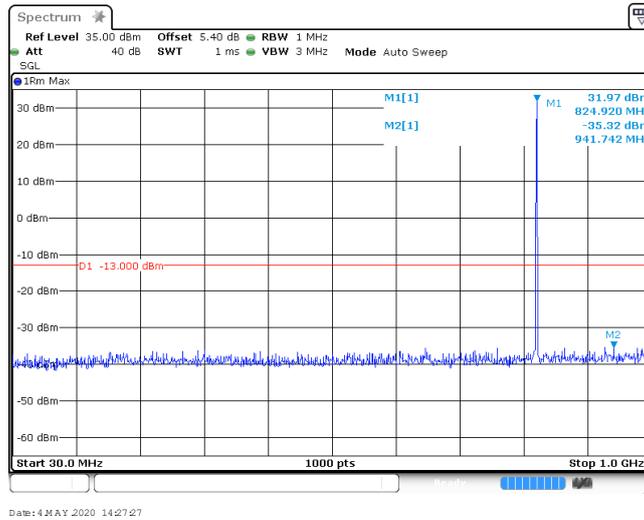


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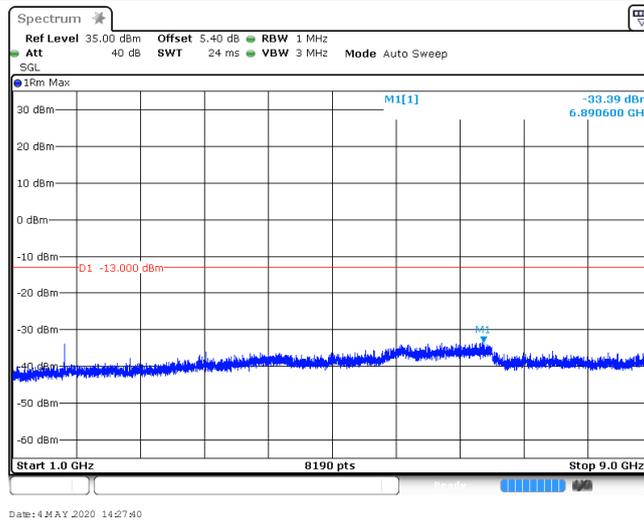


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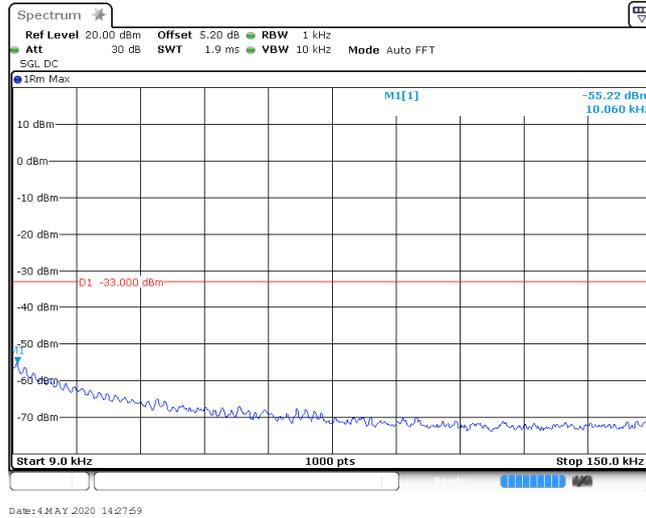


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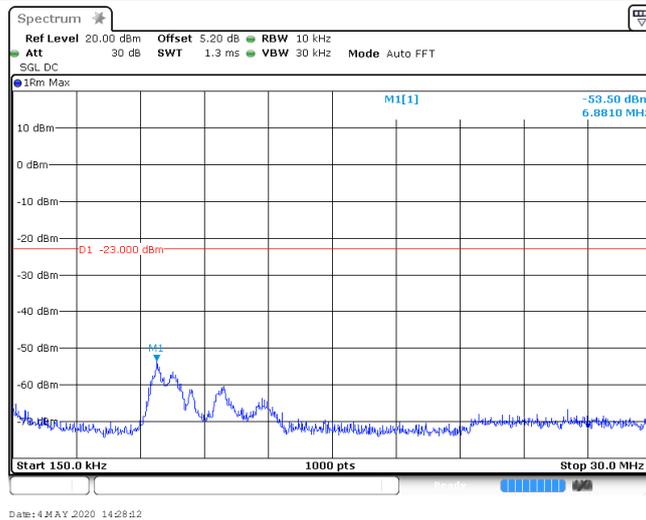


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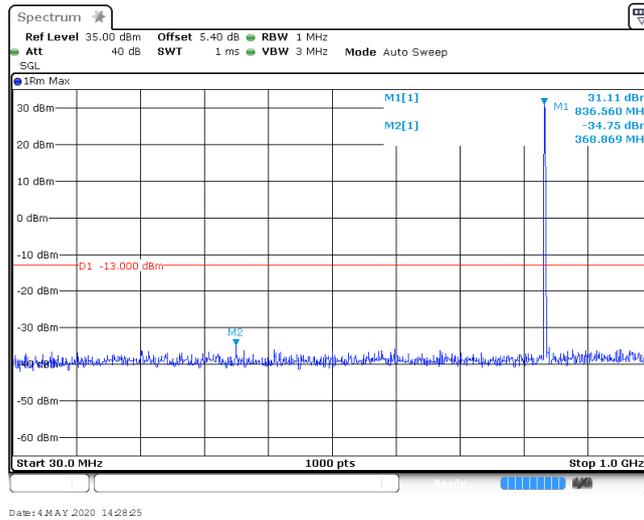


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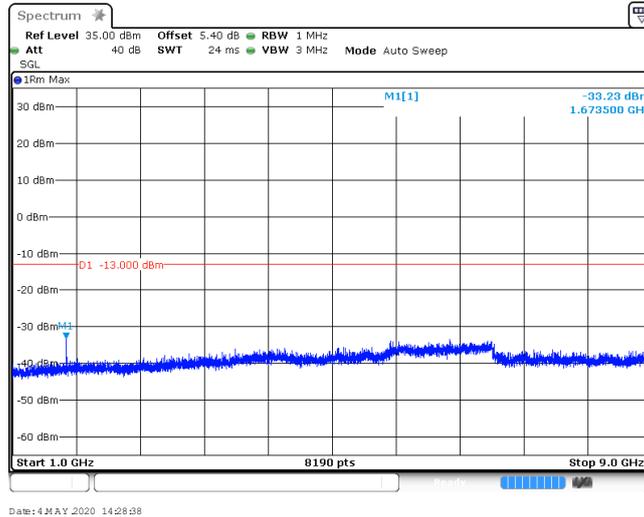


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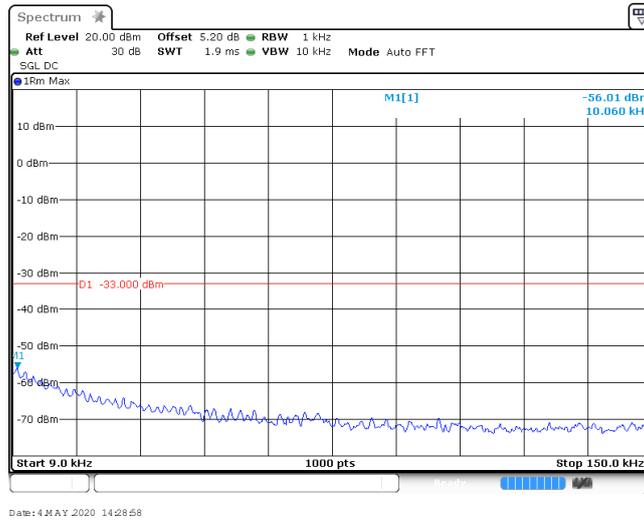


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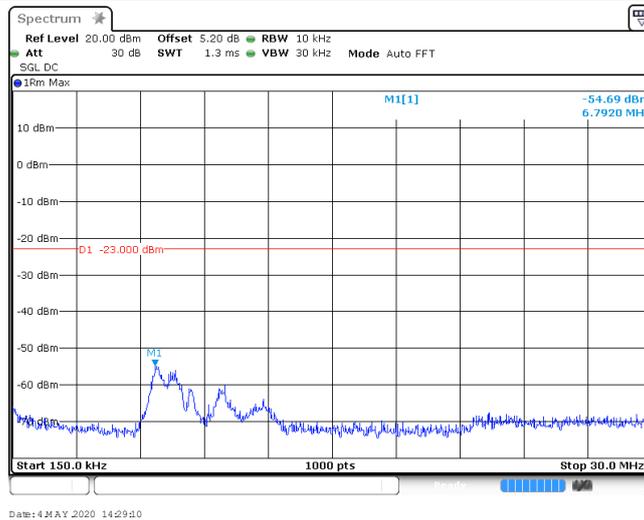


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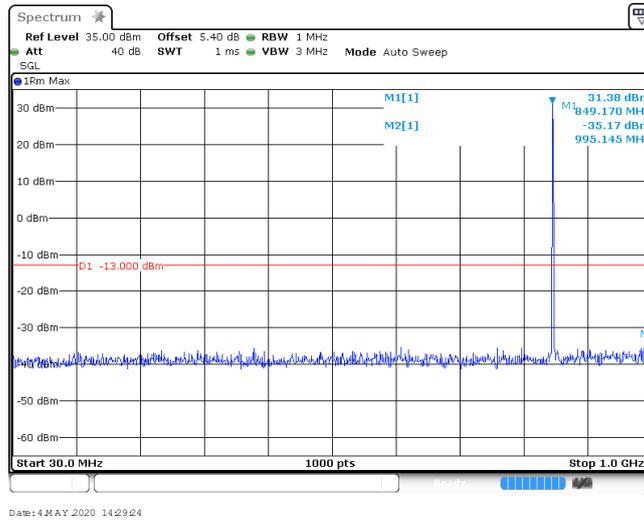


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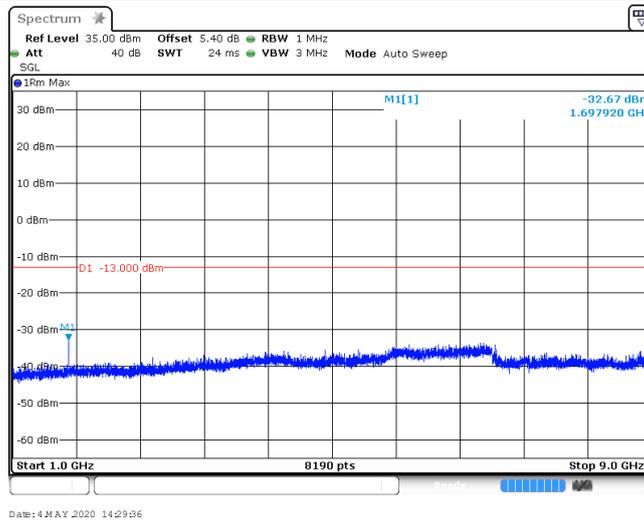


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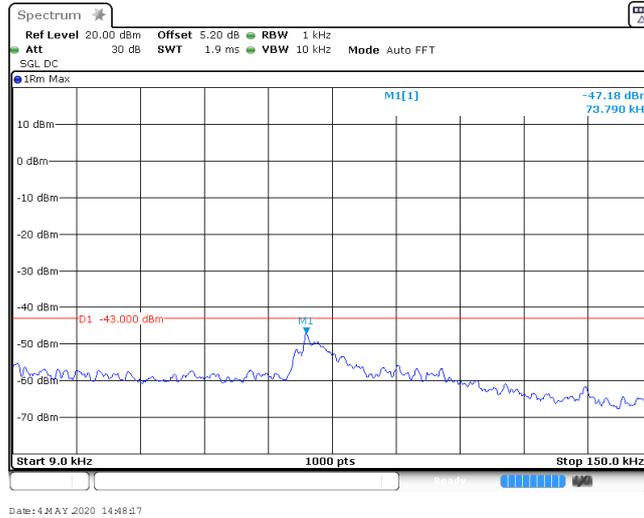
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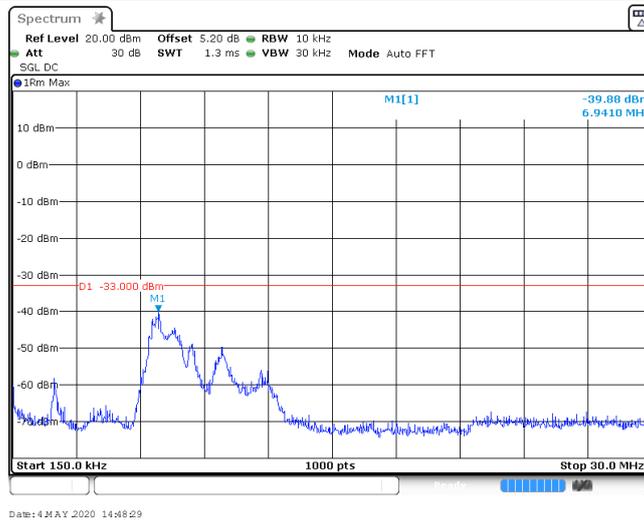
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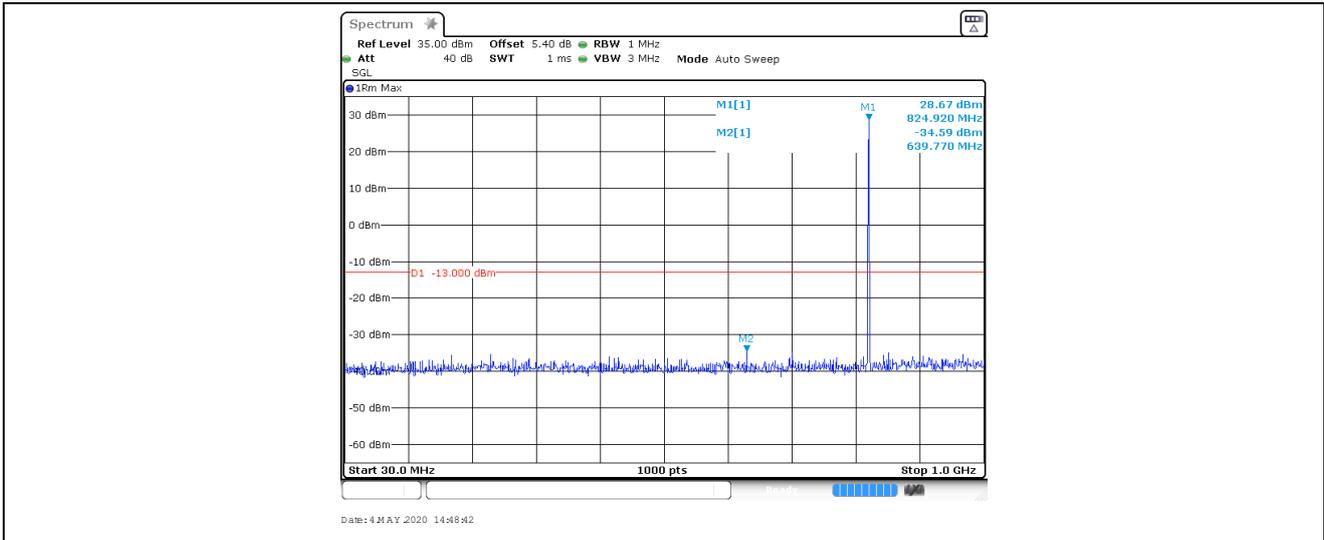


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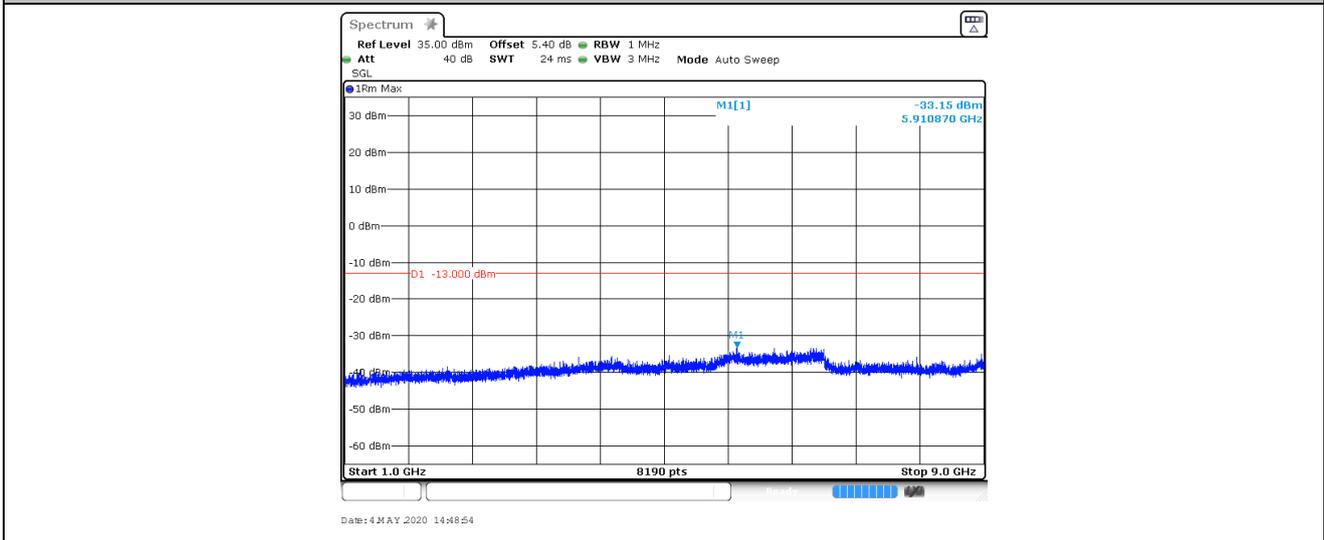


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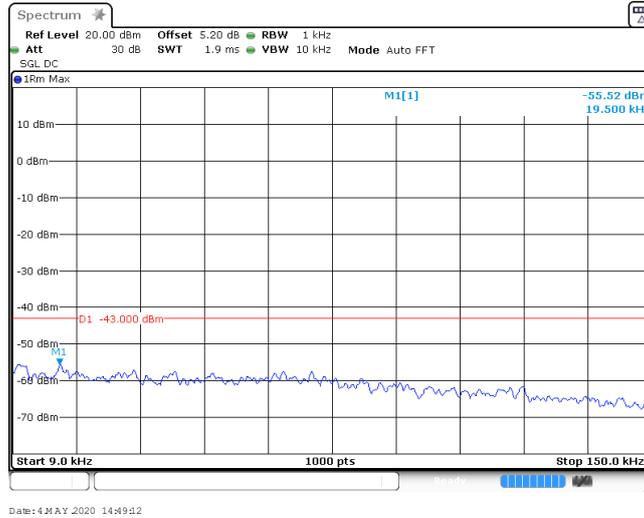
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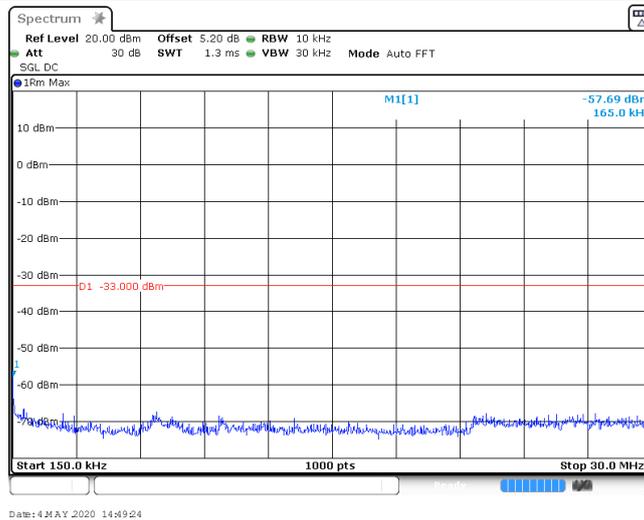
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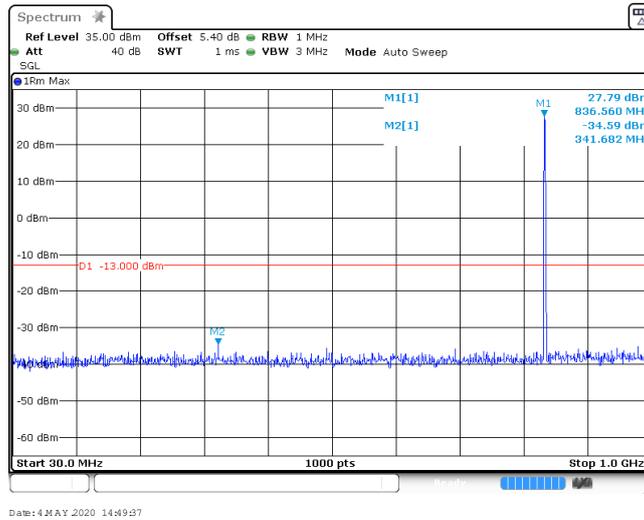


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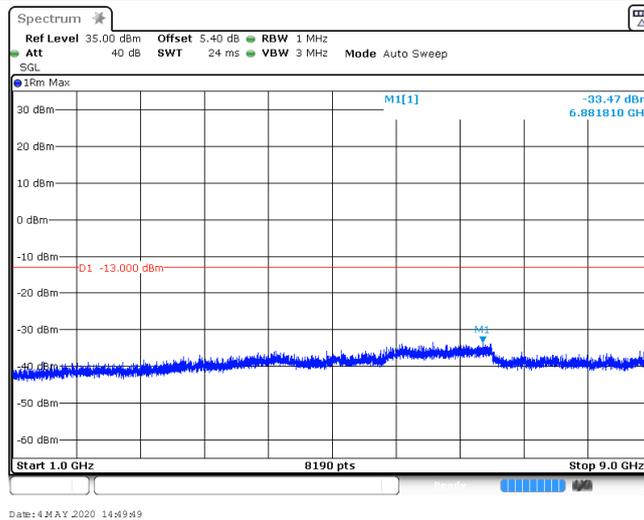


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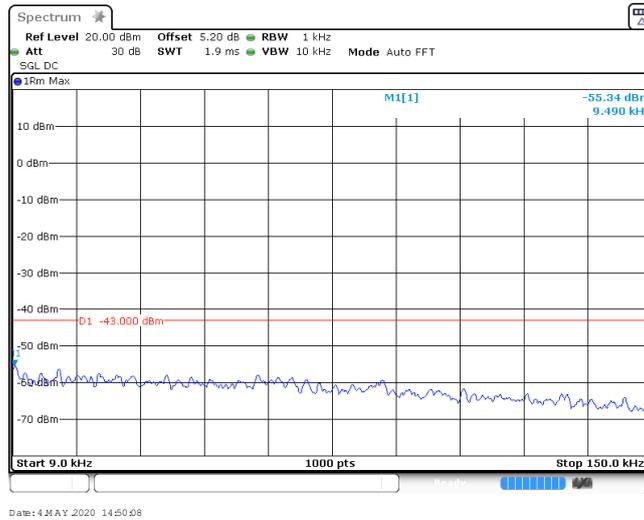


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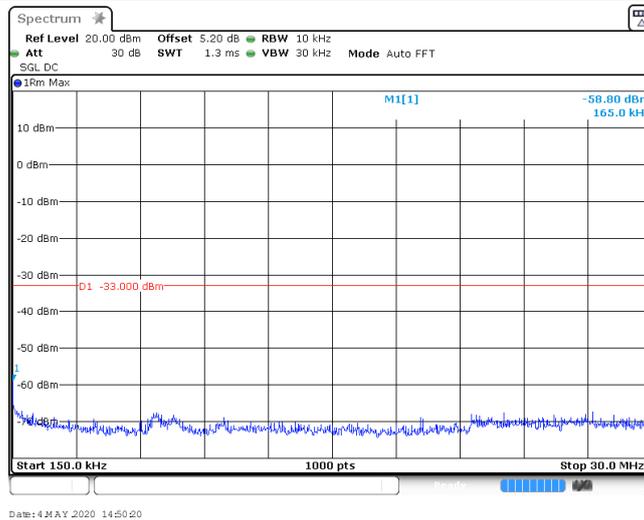


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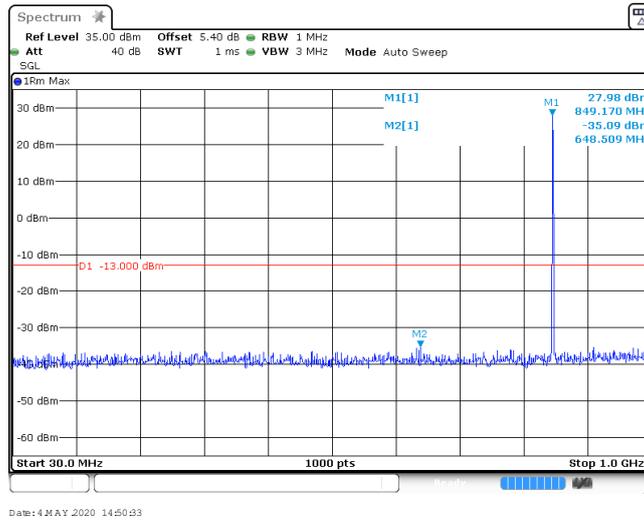


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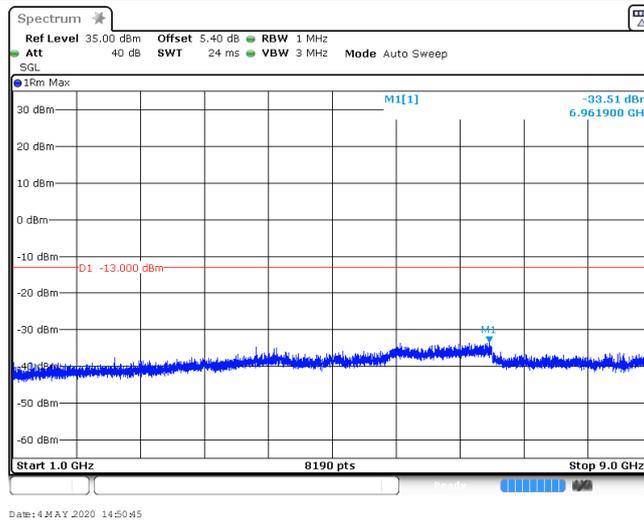


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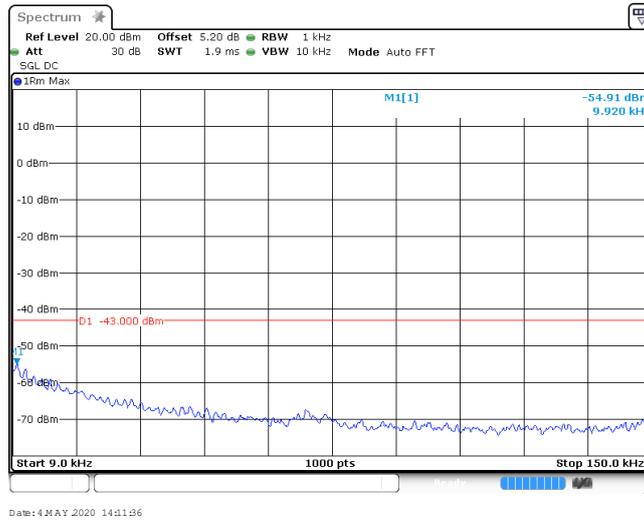
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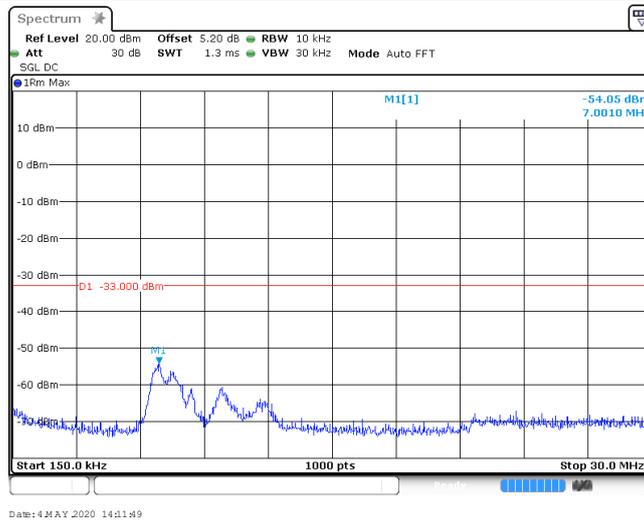
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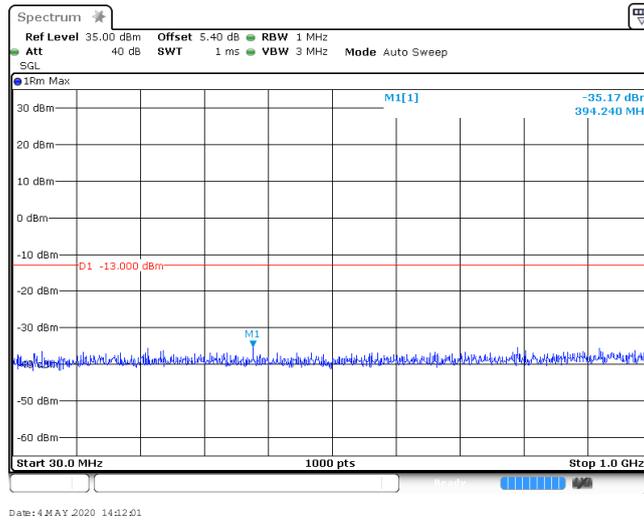


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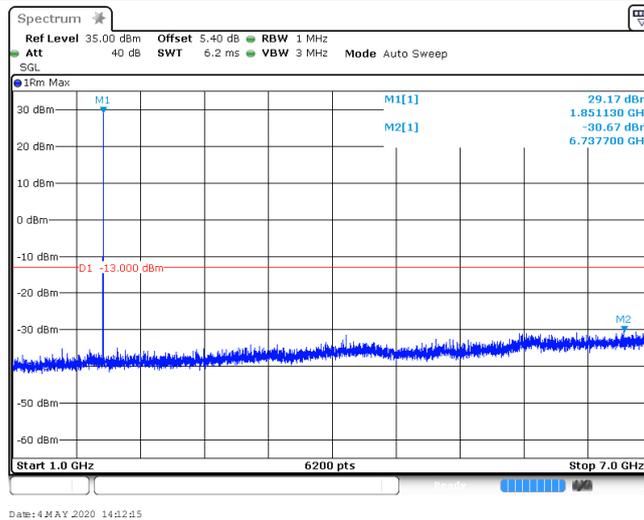


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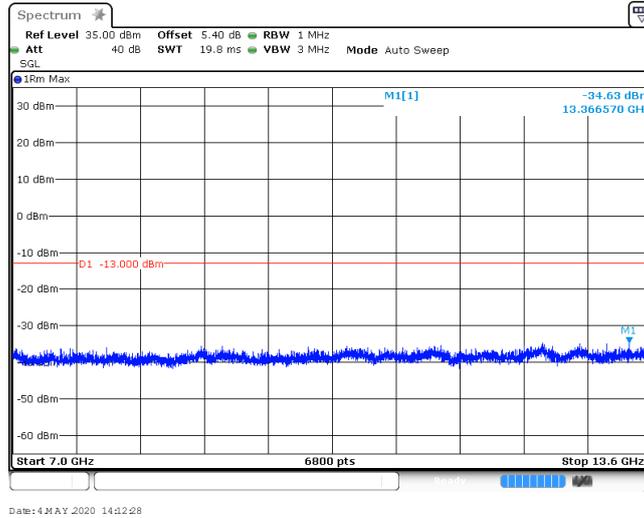


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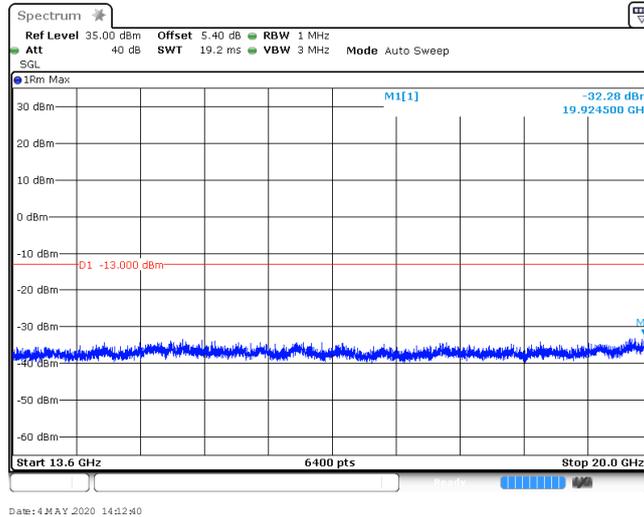


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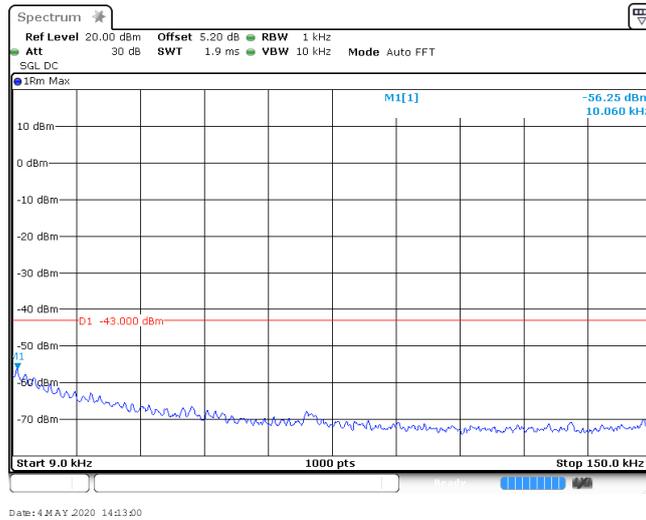


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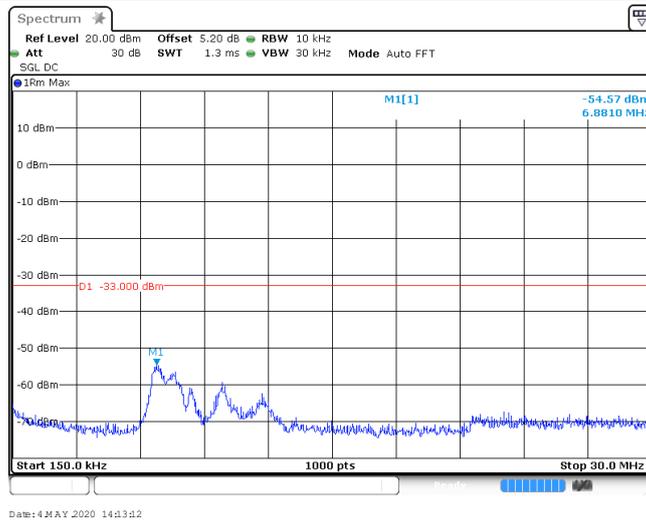


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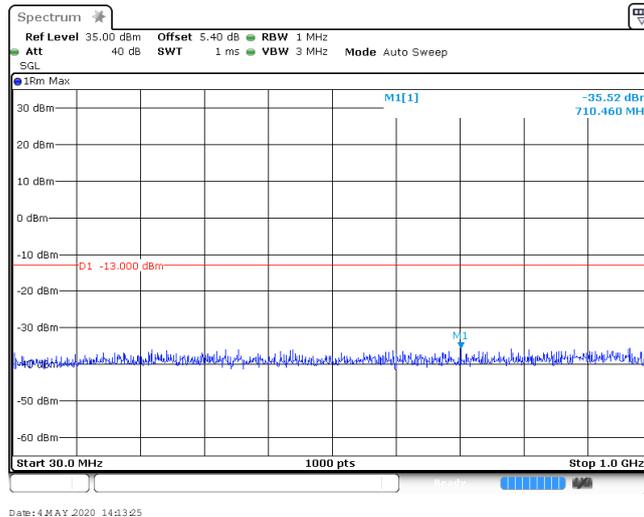


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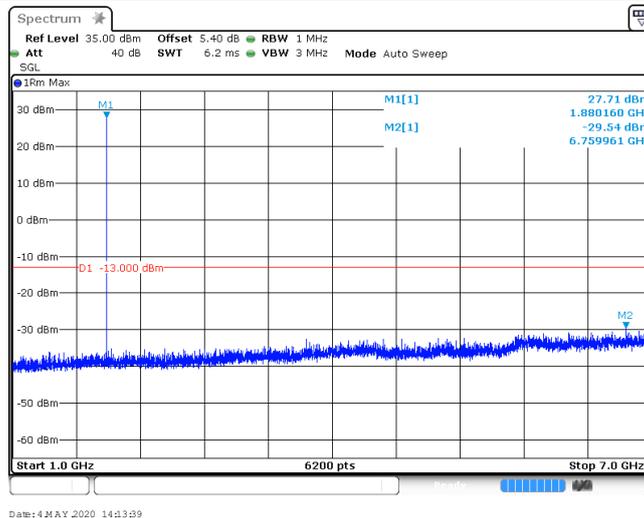


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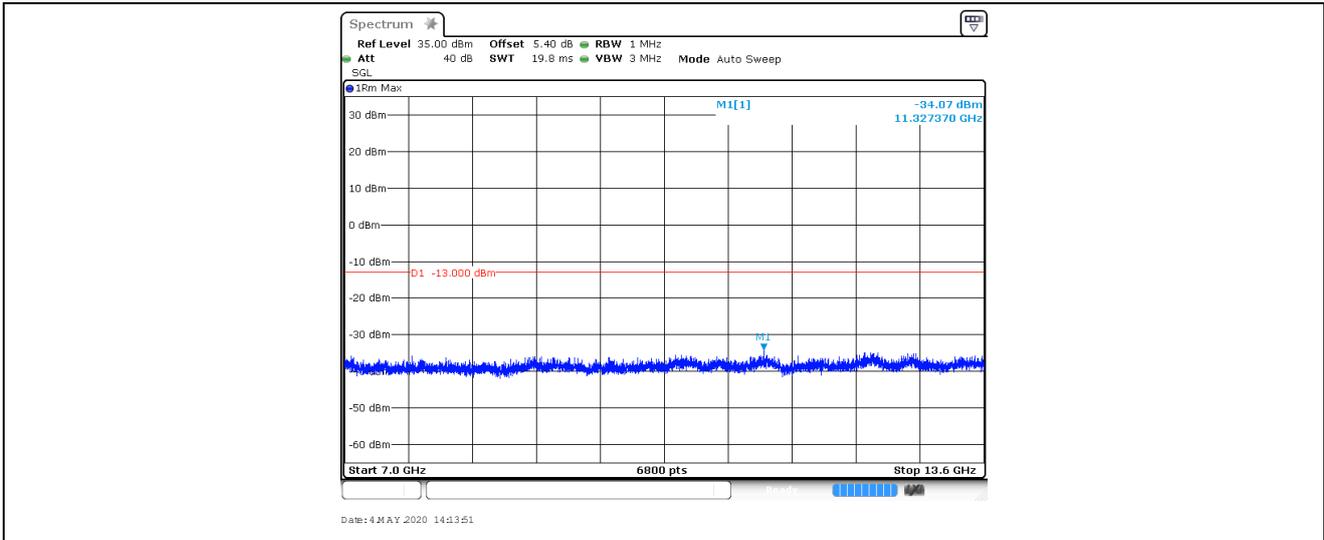


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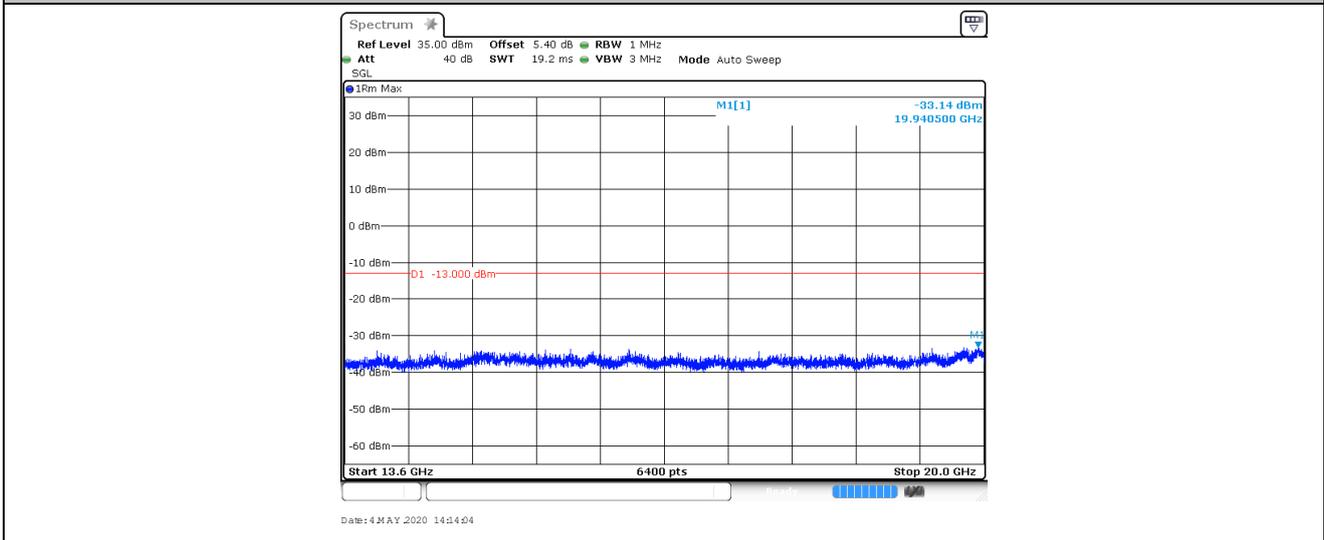


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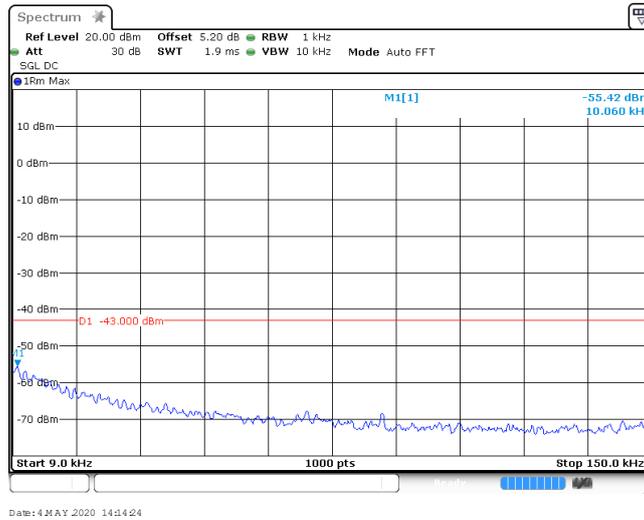
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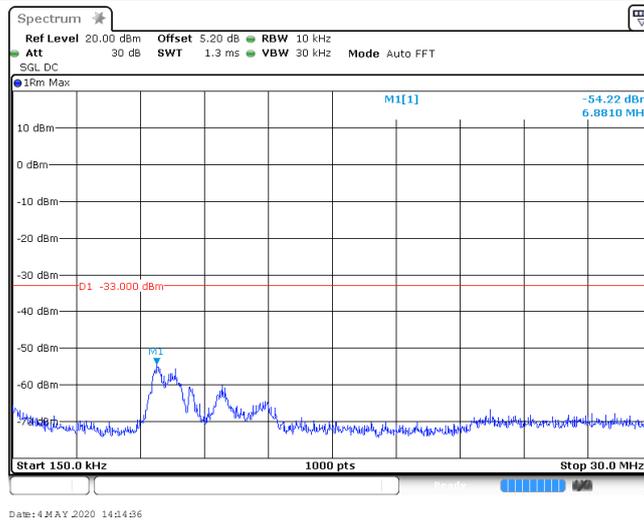
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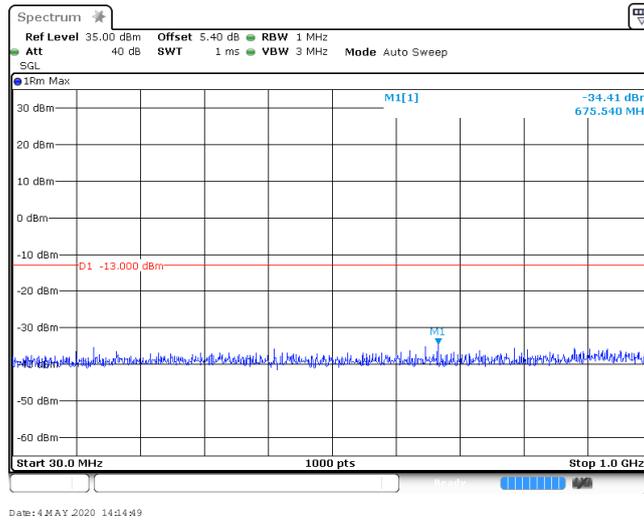


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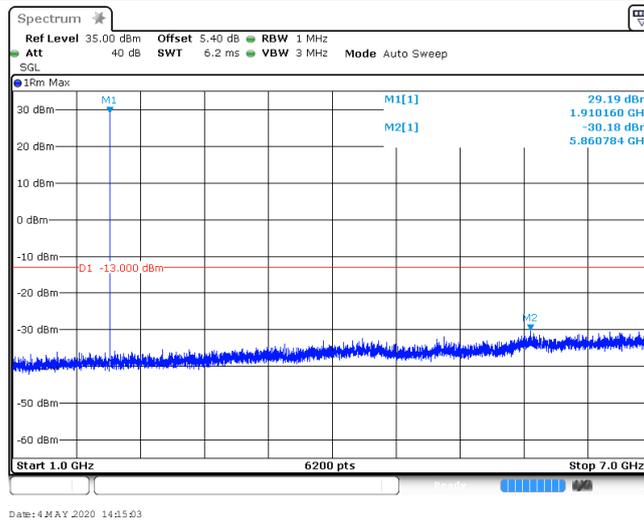


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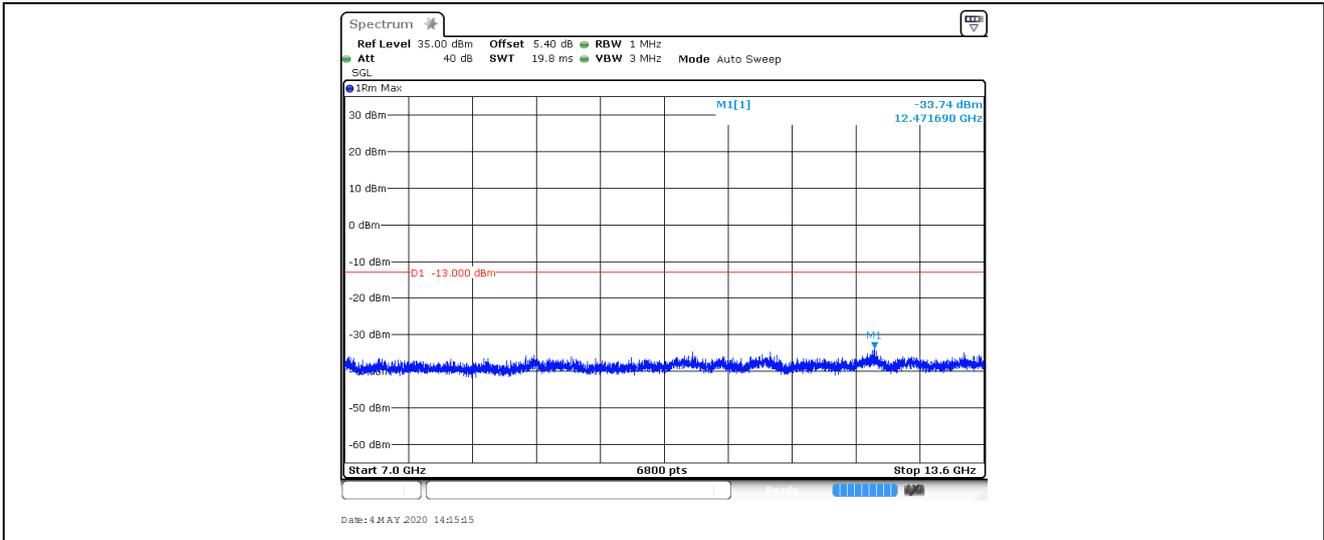


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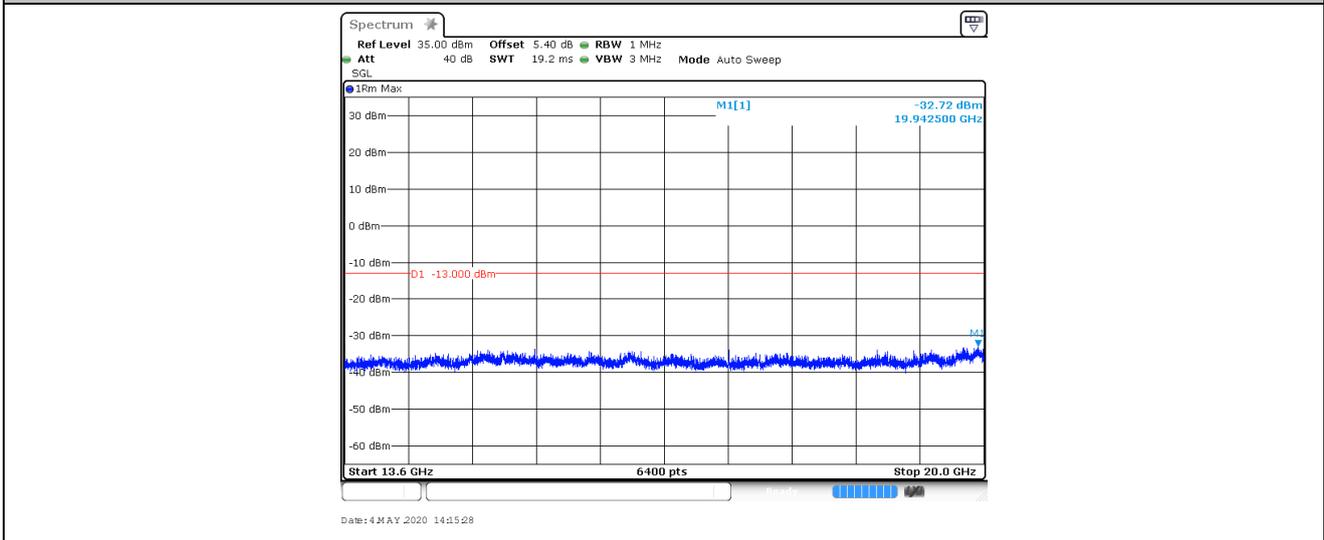


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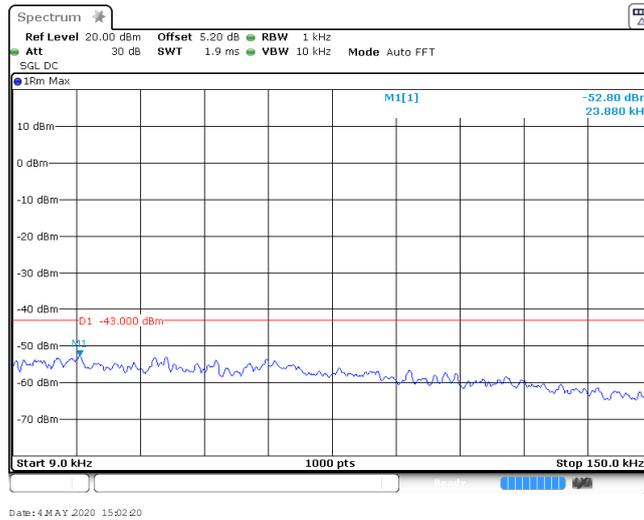
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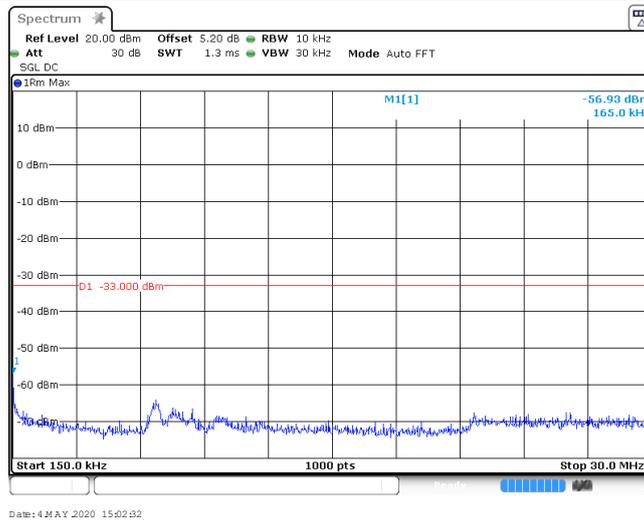
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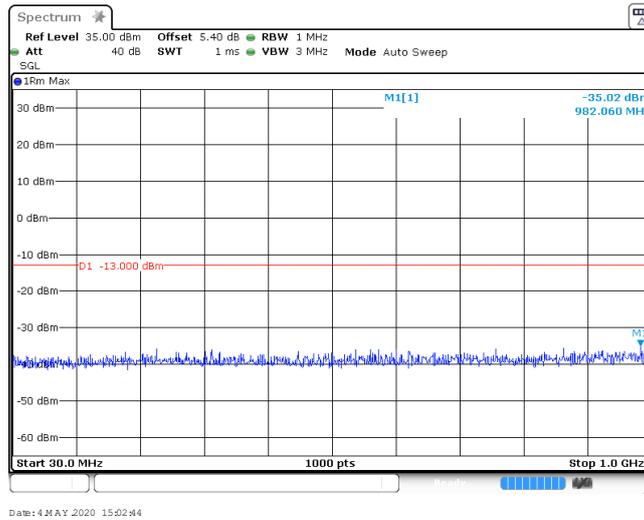


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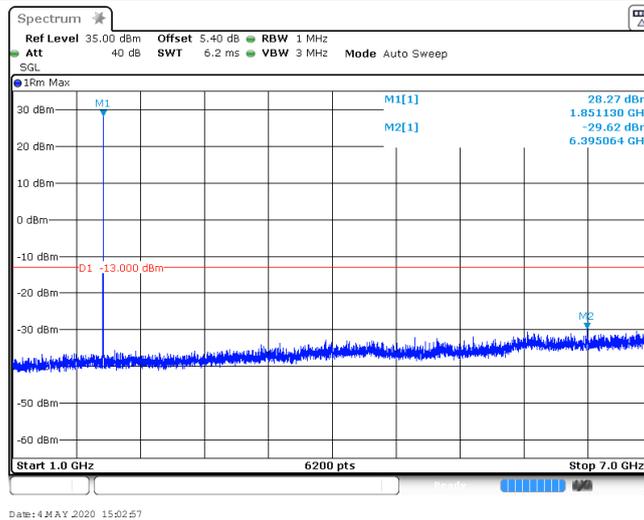
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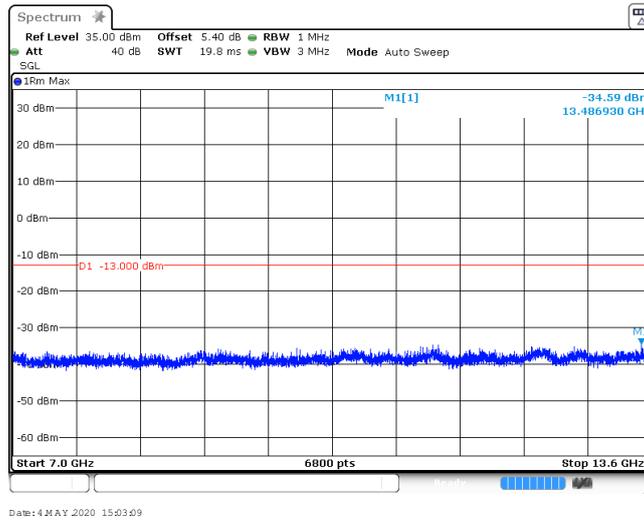
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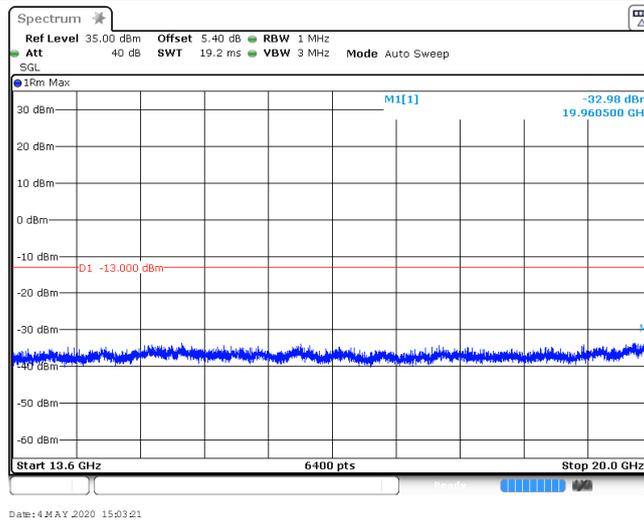


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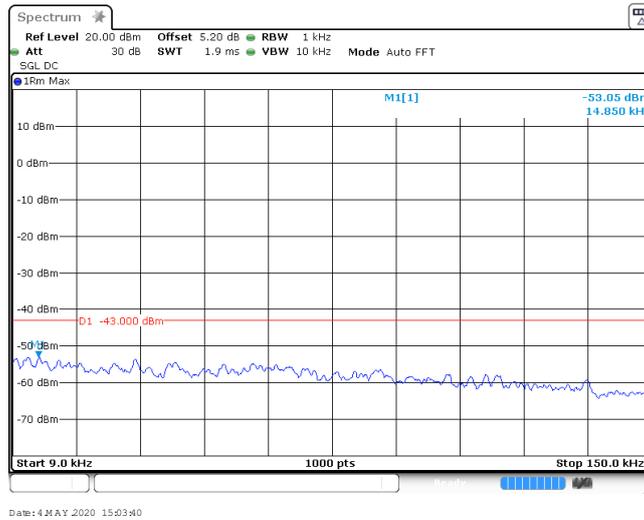
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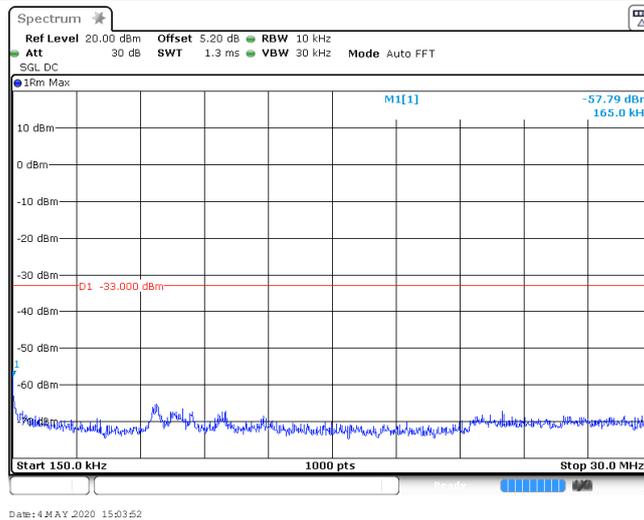
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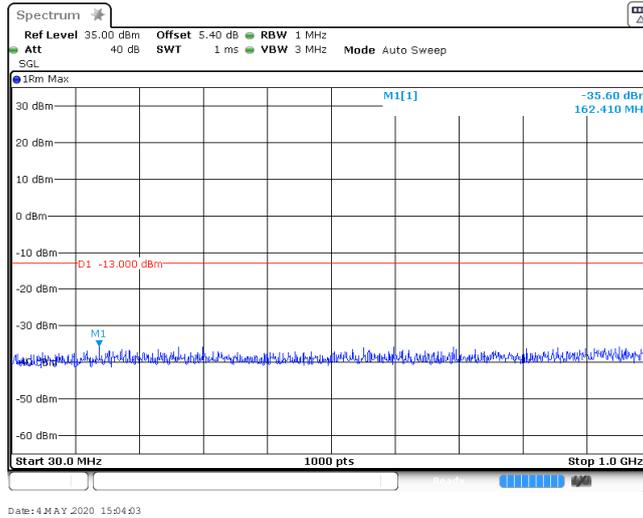


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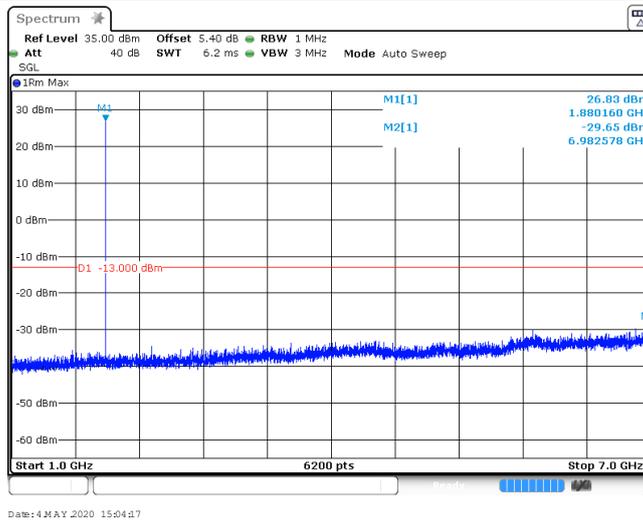


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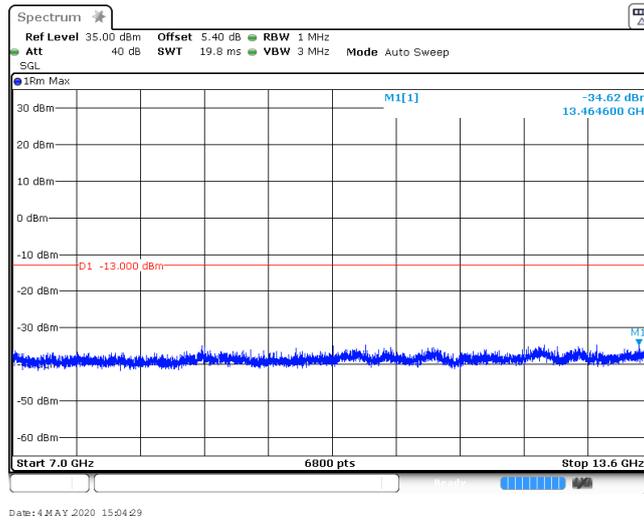


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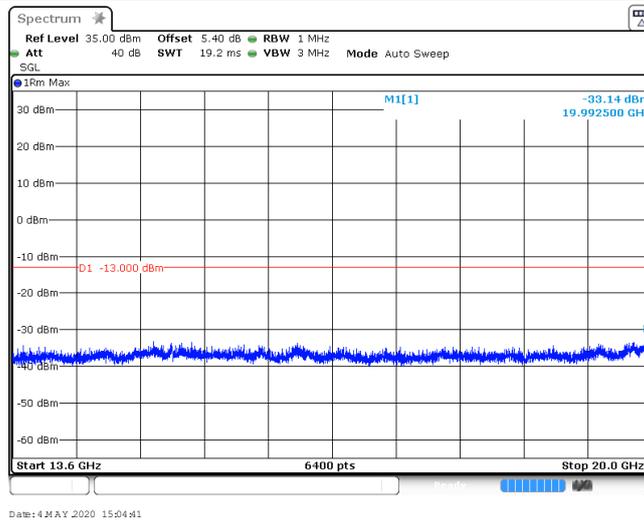


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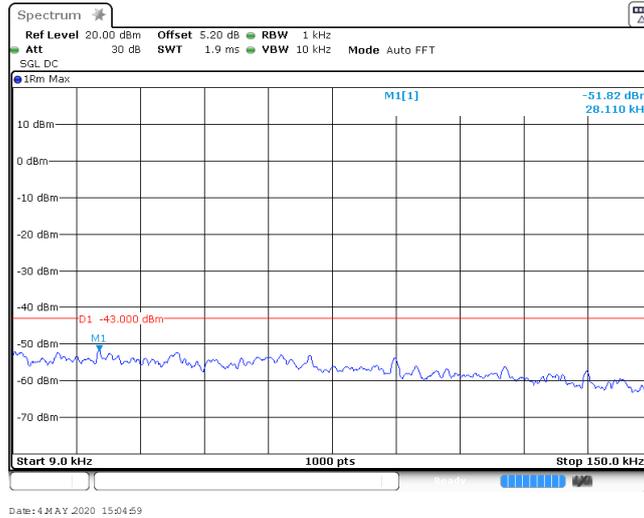
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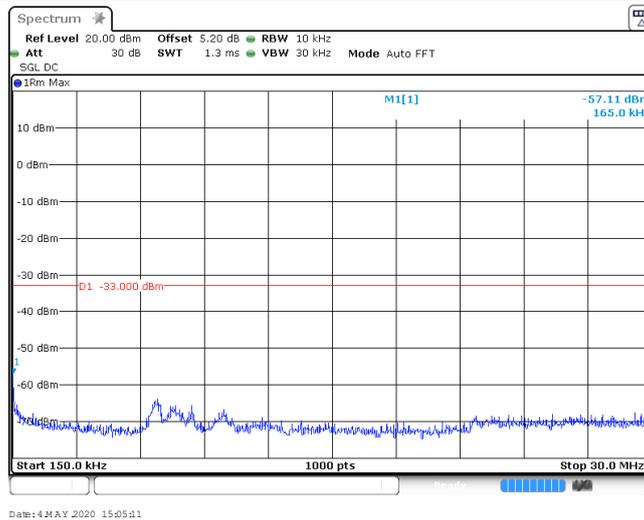
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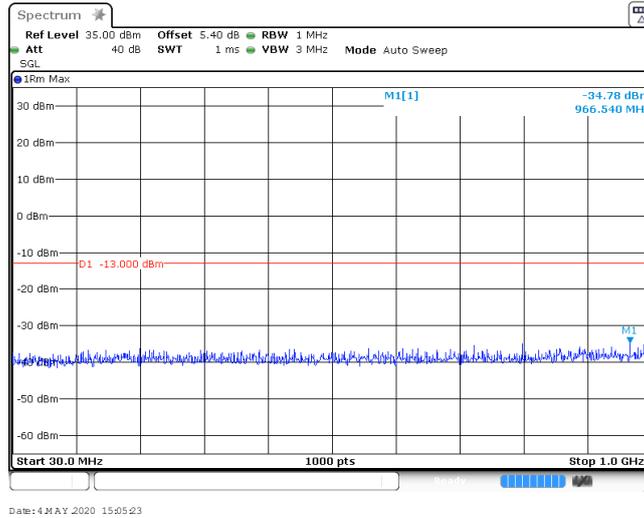


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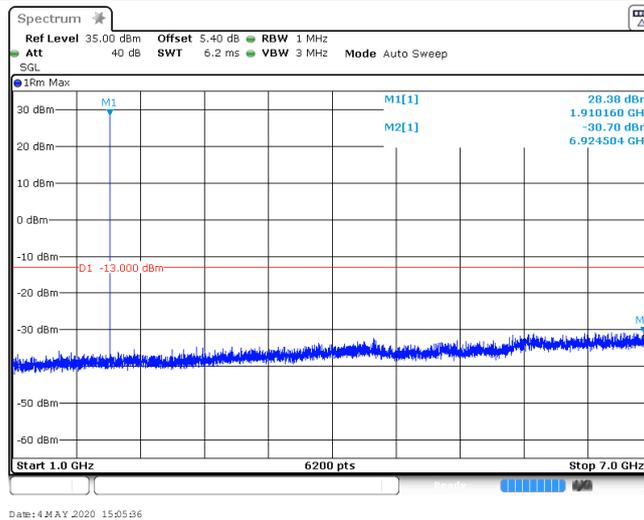


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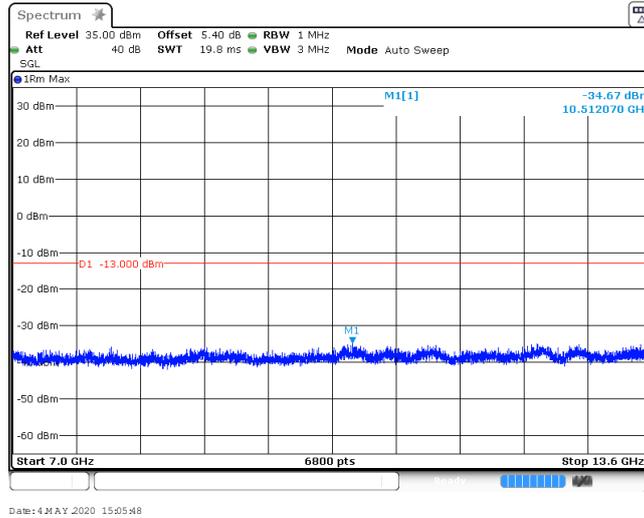


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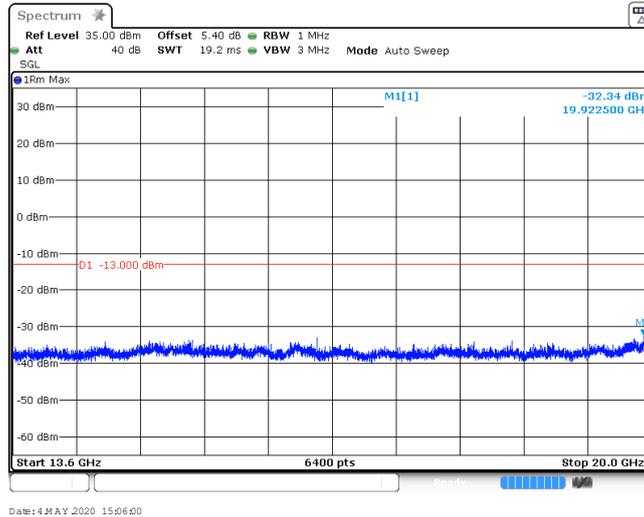


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7. Field Strength of Spurious Radiation

7.1. Test Band = GSM 1900 (Down Ant)

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.4955	-64.14	-13.00	51.14	Vertical
454.2022	-67.15	-13.00	54.15	Vertical
2700.7401	-37.28	-13.00	24.28	Vertical
3700.5234	-58.58	-13.00	45.58	Vertical
7377.1459	-56.39	-13.00	43.39	Vertical
17999.5000	-41.96	-13.00	28.96	Vertical
39.9915	-63.50	-13.00	50.50	Horizontal
242.1981	-67.22	-13.00	54.22	Horizontal
2699.5399	-36.60	-13.00	23.60	Horizontal
3700.5234	-54.07	-13.00	41.07	Horizontal
5550.5850	-54.46	-13.00	41.46	Horizontal
16385.4462	-45.25	-13.00	32.25	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
115.7523	-64.24	-13.00	51.24	Vertical
377.3259	-67.72	-13.00	54.72	Vertical
2707.5415	-37.65	-13.00	24.65	Vertical
3760.0253	-57.60	-13.00	44.60	Vertical
5640.0880	-57.26	-13.00	44.26	Vertical
17997.4999	-41.68	-13.00	28.68	Vertical
43.0472	-64.54	-13.00	51.54	Horizontal
251.5591	-68.01	-13.00	55.01	Horizontal
561.1501	-64.90	-13.00	51.90	Horizontal
3760.0253	-49.96	-13.00	36.96	Horizontal
5640.0880	-52.06	-13.00	39.06	Horizontal
16388.4463	-45.48	-13.00	32.48	Horizontal

7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
112.4541	-63.78	-13.00	50.78	Vertical
496.1083	-66.42	-13.00	53.42	Vertical
2699.1398	-37.41	-13.00	24.41	Vertical
5729.5910	-55.38	-13.00	42.38	Vertical



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10682.7561	-52.50	-13.00	39.50	Vertical
17999.5000	-41.85	-13.00	28.85	Vertical
42.9501	-64.56	-13.00	51.56	Horizontal
236.9113	-67.89	-13.00	54.89	Horizontal
2697.5395	-36.39	-13.00	23.39	Horizontal
3819.5273	-53.84	-13.00	40.84	Horizontal
5729.5910	-50.16	-13.00	37.16	Horizontal
16395.9465	-45.29	-13.00	32.29	Horizontal

7.2. Test Band = GSM 850 (Down Ant)

7.2.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
116.6738	-64.39	-13.00	51.39	Vertical
543.6407	-65.03	-13.00	52.03	Vertical
1648.5297	-56.10	-13.00	43.10	Vertical
2472.6945	-43.77	-13.00	30.77	Vertical
7368.1456	-56.26	-13.00	43.26	Vertical
17989.9997	-41.98	-13.00	28.98	Vertical
41.9801	-63.71	-13.00	50.71	Horizontal
231.9156	-67.32	-13.00	54.32	Horizontal
1648.5297	-48.77	-13.00	35.77	Horizontal
2472.6945	-36.35	-13.00	23.35	Horizontal
7924.6642	-57.07	-13.00	44.07	Horizontal
16377.9459	-44.62	-13.00	31.62	Horizontal

7.2.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
111.1931	-64.14	-13.00	51.14	Vertical
391.5856	-67.32	-13.00	54.32	Vertical
1673.3347	-58.19	-13.00	45.19	Vertical
2509.9020	-40.63	-13.00	27.63	Vertical
7359.1453	-56.30	-13.00	43.30	Vertical
17996.9999	-41.74	-13.00	28.74	Vertical
43.0957	-63.13	-13.00	50.13	Horizontal
242.0526	-67.14	-13.00	54.14	Horizontal
1673.3347	-51.60	-13.00	38.60	Horizontal
2510.3021	-36.08	-13.00	23.08	Horizontal
7360.1453	-56.89	-13.00	43.89	Horizontal
16391.4464	-44.67	-13.00	31.67	Horizontal



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7.2.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.7380	-63.76	-13.00	50.76	Vertical
374.6582	-66.30	-13.00	53.30	Vertical
1697.3395	-56.94	-13.00	43.94	Vertical
2546.3093	-40.93	-13.00	27.93	Vertical
7936.6646	-56.50	-13.00	43.50	Vertical
17996.4999	-41.96	-13.00	28.96	Vertical
40.9615	-64.00	-13.00	51.00	Horizontal
231.0911	-67.07	-13.00	54.07	Horizontal
490.4335	-65.25	-13.00	52.25	Horizontal
1697.7395	-46.76	-13.00	33.76	Horizontal
2546.7093	-37.30	-13.00	24.30	Horizontal
16393.4464	-45.23	-13.00	32.23	Horizontal

7.3. Test Band = GSM 850 (Up Ant)

7.3.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.9805	-64.29	-13.00	51.29	Vertical
294.2412	-68.19	-13.00	55.19	Vertical
1648.1296	-50.82	-13.00	37.82	Vertical
2472.6945	-53.78	-13.00	40.78	Vertical
7949.6650	-54.26	-13.00	41.26	Vertical
17994.9998	-37.93	-13.00	24.93	Vertical
43.0957	-63.72	-13.00	50.72	Horizontal
232.4491	-67.21	-13.00	54.21	Horizontal
617.4614	-62.91	-13.00	49.91	Horizontal
1648.5297	-42.52	-13.00	29.52	Horizontal
2472.6945	-44.47	-13.00	31.47	Horizontal
16386.9462	-42.15	-13.00	29.15	Horizontal

7.3.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
112.8906	-64.27	-13.00	51.27	Vertical
273.0942	-70.12	-13.00	57.12	Vertical
1673.3347	-51.02	-13.00	38.02	Vertical
2474.2949	-49.85	-13.00	36.85	Vertical
4183.0394	-58.16	-13.00	45.16	Vertical
17984.9995	-38.21	-13.00	25.21	Vertical



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41.6891	-63.84	-13.00	50.84	Horizontal
238.1239	-66.23	-13.00	53.23	Horizontal
1673.3347	-46.76	-13.00	33.76	Horizontal
2509.9020	-47.88	-13.00	34.88	Horizontal
4183.0394	-54.66	-13.00	41.66	Horizontal
16395.4465	-42.63	-13.00	29.63	Horizontal

7.3.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.0290	-64.12	-13.00	51.12	Vertical
614.1147	-62.90	-13.00	49.90	Vertical
1697.3395	-52.81	-13.00	39.81	Vertical
2546.7093	-49.33	-13.00	36.33	Vertical
4244.0415	-52.93	-13.00	39.93	Vertical
17999.5000	-38.12	-13.00	25.12	Vertical
42.8531	-63.31	-13.00	50.31	Horizontal
232.5461	-67.59	-13.00	54.59	Horizontal
1697.3395	-47.32	-13.00	34.32	Horizontal
2546.7093	-47.50	-13.00	34.50	Horizontal
4244.0415	-51.23	-13.00	38.23	Horizontal
16386.9462	-42.19	-13.00	29.19	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)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VL	TN	12.48	0.015142	±2.5	PASS
GSM850	128	VN	TN	5.47	0.006642	±2.5	PASS
GSM850	128	VH	TN	-7.22	-0.008760	±2.5	PASS
GSM850	190	VL	TN	11.84	0.014149	±2.5	PASS
GSM850	190	VN	TN	-12.44	-0.014874	±2.5	PASS
GSM850	190	VH	TN	12.10	0.014463	±2.5	PASS
GSM850	251	VL	TN	2.22	0.002611	±2.5	PASS
GSM850	251	VN	TN	0.91	0.001067	±2.5	PASS
GSM850	251	VH	TN	-8.73	-0.010282	±2.5	PASS
EGPRS850	128	VL	TN	14.51	0.017602	±2.5	PASS
EGPRS850	128	VN	TN	14.97	0.018166	±2.5	PASS
EGPRS850	128	VH	TN	8.55	0.010372	±2.5	PASS
EGPRS850	190	VL	TN	4.18	0.004996	±2.5	PASS
EGPRS850	190	VN	TN	11.62	0.013894	±2.5	PASS
EGPRS850	190	VH	TN	12.20	0.014577	±2.5	PASS
EGPRS850	251	VL	TN	3.40	0.004010	±2.5	PASS
EGPRS850	251	VN	TN	13.16	0.015506	±2.5	PASS
EGPRS850	251	VH	TN	7.02	0.008268	±2.5	PASS
GSM1900	512	VL	TN	13.35	0.007215	±2.5	PASS
GSM1900	512	VN	TN	14.39	0.007775	±2.5	PASS
GSM1900	512	VH	TN	-4.43	-0.002392	±2.5	PASS
GSM1900	661	VL	TN	0.93	0.000496	±2.5	PASS
GSM1900	661	VN	TN	4.98	0.002651	±2.5	PASS
GSM1900	661	VH	TN	-9.02	-0.004797	±2.5	PASS
GSM1900	810	VL	TN	3.25	0.001700	±2.5	PASS
GSM1900	810	VN	TN	12.24	0.006409	±2.5	PASS
GSM1900	810	VH	TN	-4.21	-0.002202	±2.5	PASS
EGPRS1900	512	VL	TN	3.49	0.001889	±2.5	PASS
EGPRS1900	512	VN	TN	5.18	0.002800	±2.5	PASS
EGPRS1900	512	VH	TN	9.14	0.004938	±2.5	PASS
EGPRS1900	661	VL	TN	-0.07	-0.000036	±2.5	PASS
EGPRS1900	661	VN	TN	-3.95	-0.002103	±2.5	PASS
EGPRS1900	661	VH	TN	-14.12	-0.007508	±2.5	PASS
EGPRS1900	810	VL	TN	-10.25	-0.005369	±2.5	PASS
EGPRS1900	810	VN	TN	-6.91	-0.003620	±2.5	PASS
EGPRS1900	810	VH	TN	11.51	0.006026	±2.5	PASS



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8.2. Frequency Error Vs Temperature

Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VN	-30	10.42	0.012643	±2.5	PASS
GSM850	128	VN	-20	13.51	0.016388	±2.5	PASS
GSM850	128	VN	-10	-13.72	-0.016650	±2.5	PASS
GSM850	128	VN	0	-2.32	-0.002820	±2.5	PASS
GSM850	128	VN	10	0.27	0.000330	±2.5	PASS
GSM850	128	VN	20	-4.08	-0.004944	±2.5	PASS
GSM850	128	VN	30	4.35	0.005275	±2.5	PASS
GSM850	128	VN	40	-7.74	-0.009386	±2.5	PASS
GSM850	128	VN	50	8.64	0.010485	±2.5	PASS
GSM850	190	VN	-30	11.68	0.013960	±2.5	PASS
GSM850	190	VN	-20	9.39	0.011227	±2.5	PASS
GSM850	190	VN	-10	-0.74	-0.000887	±2.5	PASS
GSM850	190	VN	0	6.39	0.007637	±2.5	PASS
GSM850	190	VN	10	2.96	0.003538	±2.5	PASS
GSM850	190	VN	20	0.01	0.000017	±2.5	PASS
GSM850	190	VN	30	9.26	0.011075	±2.5	PASS
GSM850	190	VN	40	-6.38	-0.007622	±2.5	PASS
GSM850	190	VN	50	-12.87	-0.015380	±2.5	PASS
GSM850	251	VN	-30	6.57	0.007737	±2.5	PASS
GSM850	251	VN	-20	-10.93	-0.012880	±2.5	PASS
GSM850	251	VN	-10	13.83	0.016288	±2.5	PASS
GSM850	251	VN	0	-4.82	-0.005679	±2.5	PASS
GSM850	251	VN	10	5.62	0.006616	±2.5	PASS
GSM850	251	VN	20	-5.13	-0.006042	±2.5	PASS
GSM850	251	VN	30	7.06	0.008313	±2.5	PASS
GSM850	251	VN	40	5.32	0.006271	±2.5	PASS
GSM850	251	VN	50	11.32	0.013331	±2.5	PASS
EGPRS850	128	VN	-30	9.78	0.011865	±2.5	PASS
EGPRS850	128	VN	-20	12.73	0.015444	±2.5	PASS
EGPRS850	128	VN	-10	-9.15	-0.011105	±2.5	PASS
EGPRS850	128	VN	0	7.03	0.008530	±2.5	PASS
EGPRS850	128	VN	10	-5.00	-0.006072	±2.5	PASS
EGPRS850	128	VN	20	1.20	0.001450	±2.5	PASS
EGPRS850	128	VN	30	8.89	0.010788	±2.5	PASS



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EGPRS850	128	VN	40	-6.04	-0.007326	±2.5	PASS
EGPRS850	128	VN	50	-10.92	-0.013249	±2.5	PASS
EGPRS850	190	VN	-30	7.77	0.009286	±2.5	PASS
EGPRS850	190	VN	-20	-4.98	-0.005956	±2.5	PASS
EGPRS850	190	VN	-10	-9.46	-0.011312	±2.5	PASS
EGPRS850	190	VN	0	5.81	0.006950	±2.5	PASS
EGPRS850	190	VN	10	-14.44	-0.017256	±2.5	PASS
EGPRS850	190	VN	20	-12.38	-0.014792	±2.5	PASS
EGPRS850	190	VN	30	-14.05	-0.016794	±2.5	PASS
EGPRS850	190	VN	40	-8.74	-0.010452	±2.5	PASS
EGPRS850	190	VN	50	11.79	0.014093	±2.5	PASS
EGPRS850	251	VN	-30	-13.40	-0.015782	±2.5	PASS
EGPRS850	251	VN	-20	-12.44	-0.014652	±2.5	PASS
EGPRS850	251	VN	-10	-5.43	-0.006392	±2.5	PASS
EGPRS850	251	VN	0	12.74	0.015014	±2.5	PASS
EGPRS850	251	VN	10	4.85	0.005711	±2.5	PASS
EGPRS850	251	VN	20	-8.39	-0.009881	±2.5	PASS
EGPRS850	251	VN	30	-0.47	-0.000554	±2.5	PASS
EGPRS850	251	VN	40	10.33	0.012175	±2.5	PASS
EGPRS850	251	VN	50	-10.14	-0.011947	±2.5	PASS
GSM1900	512	VN	-30	-11.92	-0.006443	±2.5	PASS
GSM1900	512	VN	-20	3.66	0.001979	±2.5	PASS
GSM1900	512	VN	-10	-6.99	-0.003778	±2.5	PASS
GSM1900	512	VN	0	-0.01	-0.000007	±2.5	PASS
GSM1900	512	VN	10	5.89	0.003183	±2.5	PASS
GSM1900	512	VN	20	4.77	0.002578	±2.5	PASS
GSM1900	512	VN	30	-9.46	-0.005114	±2.5	PASS
GSM1900	512	VN	40	10.14	0.005479	±2.5	PASS
GSM1900	512	VN	50	-7.64	-0.004128	±2.5	PASS
GSM1900	661	VN	-30	-5.11	-0.002720	±2.5	PASS
GSM1900	661	VN	-20	1.66	0.000885	±2.5	PASS
GSM1900	661	VN	-10	4.53	0.002411	±2.5	PASS
GSM1900	661	VN	0	-6.37	-0.003390	±2.5	PASS
GSM1900	661	VN	10	-8.87	-0.004717	±2.5	PASS
GSM1900	661	VN	20	-11.72	-0.006231	±2.5	PASS
GSM1900	661	VN	30	-12.63	-0.006720	±2.5	PASS
GSM1900	661	VN	40	9.29	0.004940	±2.5	PASS
GSM1900	661	VN	50	7.45	0.003965	±2.5	PASS



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GSM1900	810	VN	-30	4.69	0.002454	±2.5	PASS
GSM1900	810	VN	-20	13.52	0.007079	±2.5	PASS
GSM1900	810	VN	-10	5.77	0.003020	±2.5	PASS
GSM1900	810	VN	0	9.09	0.004762	±2.5	PASS
GSM1900	810	VN	10	8.18	0.004282	±2.5	PASS
GSM1900	810	VN	20	0.15	0.000077	±2.5	PASS
GSM1900	810	VN	30	-12.62	-0.006610	±2.5	PASS
GSM1900	810	VN	40	-4.28	-0.002243	±2.5	PASS
GSM1900	810	VN	50	-9.39	-0.004919	±2.5	PASS
EGPRS1900	512	VN	-30	-13.24	-0.007155	±2.5	PASS
EGPRS1900	512	VN	-20	9.96	0.005381	±2.5	PASS
EGPRS1900	512	VN	-10	9.42	0.005091	±2.5	PASS
EGPRS1900	512	VN	0	7.32	0.003957	±2.5	PASS
EGPRS1900	512	VN	10	-1.89	-0.001020	±2.5	PASS
EGPRS1900	512	VN	20	-2.69	-0.001454	±2.5	PASS
EGPRS1900	512	VN	30	13.29	0.007184	±2.5	PASS
EGPRS1900	512	VN	40	-6.24	-0.003371	±2.5	PASS
EGPRS1900	512	VN	50	6.11	0.003301	±2.5	PASS
EGPRS1900	661	VN	-30	10.64	0.005659	±2.5	PASS
EGPRS1900	661	VN	-20	-3.11	-0.001656	±2.5	PASS
EGPRS1900	661	VN	-10	-4.72	-0.002511	±2.5	PASS
EGPRS1900	661	VN	0	-4.70	-0.002499	±2.5	PASS
EGPRS1900	661	VN	10	-12.53	-0.006667	±2.5	PASS
EGPRS1900	661	VN	20	5.77	0.003069	±2.5	PASS
EGPRS1900	661	VN	30	-5.19	-0.002763	±2.5	PASS
EGPRS1900	661	VN	40	8.27	0.004397	±2.5	PASS
EGPRS1900	661	VN	50	8.59	0.004570	±2.5	PASS
EGPRS1900	810	VN	-30	4.81	0.002516	±2.5	PASS
EGPRS1900	810	VN	-20	-11.27	-0.005900	±2.5	PASS
EGPRS1900	810	VN	-10	-3.93	-0.002056	±2.5	PASS
EGPRS1900	810	VN	0	3.83	0.002007	±2.5	PASS
EGPRS1900	810	VN	10	14.83	0.007765	±2.5	PASS
EGPRS1900	810	VN	20	6.92	0.003621	±2.5	PASS
EGPRS1900	810	VN	30	1.85	0.000971	±2.5	PASS
EGPRS1900	810	VN	40	-9.74	-0.005097	±2.5	PASS
EGPRS1900	810	VN	50	-14.84	-0.007770	±2.5	PASS

The End



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