



Appendix B

GSM 850 & 1900



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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	---	31.77	25.12	38.45	PASS
GSM850	190	---	31.72	25.07	38.45	PASS
GSM850	251	---	31.66	25.01	38.45	PASS
EGPRS850 (GMSK)	128	1	31.71	25.06	38.45	PASS
EGPRS850 (GMSK)	128	2	28.65	22.00	38.45	PASS
EGPRS850 (GMSK)	128	3	26.65	20.00	38.45	PASS
EGPRS850 (GMSK)	128	4	25.09	18.44	38.45	PASS
EGPRS850 (GMSK)	190	1	31.64	24.99	38.45	PASS
EGPRS850 (GMSK)	190	2	28.67	22.02	38.45	PASS
EGPRS850 (GMSK)	190	3	26.59	19.94	38.45	PASS
EGPRS850 (GMSK)	190	4	25.18	18.53	38.45	PASS
EGPRS850 (GMSK)	251	1	31.65	25.00	38.45	PASS
EGPRS850 (GMSK)	251	2	28.70	22.05	38.45	PASS
EGPRS850 (GMSK)	251	3	26.62	19.97	38.45	PASS
EGPRS850 (GMSK)	251	4	25.13	18.48	38.45	PASS
EGPRS850 (8PSK)	128	1	25.56	18.91	38.45	PASS
EGPRS850 (8PSK)	128	2	22.79	16.14	38.45	PASS
EGPRS850 (8PSK)	128	3	20.82	14.17	38.45	PASS
EGPRS850 (8PSK)	128	4	19.35	12.70	38.45	PASS
EGPRS850 (8PSK)	190	1	25.55	18.90	38.45	PASS
EGPRS850 (8PSK)	190	2	22.79	16.14	38.45	PASS
EGPRS850 (8PSK)	190	3	20.79	14.14	38.45	PASS
EGPRS850 (8PSK)	190	4	19.37	12.72	38.45	PASS
EGPRS850 (8PSK)	251	1	25.60	18.95	38.45	PASS
EGPRS850 (8PSK)	251	2	22.85	16.20	38.45	PASS
EGPRS850 (8PSK)	251	3	20.73	14.08	38.45	PASS
EGPRS850 (8PSK)	251	4	19.42	12.77	38.45	PASS



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Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	29.16	28.15	33.00	PASS
GSM1900	661	---	29.21	28.20	33.00	PASS
GSM1900	810	---	29.21	28.20	33.00	PASS
EGPRS1900 (GMSK)	512	1	29.11	28.10	33.00	PASS
EGPRS1900 (GMSK)	512	2	26.70	25.69	33.00	PASS
EGPRS1900 (GMSK)	512	3	24.86	23.85	33.00	PASS
EGPRS1900 (GMSK)	512	4	23.26	22.25	33.00	PASS
EGPRS1900 (GMSK)	661	1	29.24	28.23	33.00	PASS
EGPRS1900 (GMSK)	661	2	26.78	25.77	33.00	PASS
EGPRS1900 (GMSK)	661	3	24.83	23.82	33.00	PASS
EGPRS1900 (GMSK)	661	4	23.29	22.28	33.00	PASS
EGPRS1900 (GMSK)	810	1	29.26	28.25	33.00	PASS
EGPRS1900 (GMSK)	810	2	26.80	25.79	33.00	PASS
EGPRS1900 (GMSK)	810	3	24.79	23.78	33.00	PASS
EGPRS1900 (GMSK)	810	4	23.35	22.34	33.00	PASS
EGPRS1900 (8PSK)	512	1	25.39	24.38	33.00	PASS
EGPRS1900 (8PSK)	512	2	22.32	21.31	33.00	PASS
EGPRS1900 (8PSK)	512	3	20.59	19.58	33.00	PASS
EGPRS1900 (8PSK)	512	4	19.11	18.10	33.00	PASS
EGPRS1900 (8PSK)	661	1	25.42	24.41	33.00	PASS
EGPRS1900 (8PSK)	661	2	22.45	21.44	33.00	PASS
EGPRS1900 (8PSK)	661	3	20.52	19.51	33.00	PASS
EGPRS1900 (8PSK)	661	4	19.01	18.00	33.00	PASS
EGPRS1900 (8PSK)	810	1	25.38	24.37	33.00	PASS
EGPRS1900 (8PSK)	810	2	22.36	21.35	33.00	PASS
EGPRS1900 (8PSK)	810	3	20.49	19.48	33.00	PASS
EGPRS1900 (8PSK)	810	4	19.05	18.04	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	---	32.46	25.71	38.45	PASS
GSM850	190	---	32.44	25.69	38.45	PASS
GSM850	251	---	32.49	25.74	38.45	PASS
EGPRS850 (GMSK)	128	1	32.44	25.69	38.45	PASS
EGPRS850 (GMSK)	128	2	29.30	22.55	38.45	PASS
EGPRS850 (GMSK)	128	3	27.63	20.88	38.45	PASS
EGPRS850 (GMSK)	128	4	25.78	19.03	38.45	PASS
EGPRS850 (GMSK)	190	1	32.45	25.70	38.45	PASS
EGPRS850 (GMSK)	190	2	29.29	22.54	38.45	PASS
EGPRS850 (GMSK)	190	3	27.54	20.79	38.45	PASS
EGPRS850 (GMSK)	190	4	26.05	19.30	38.45	PASS
EGPRS850 (GMSK)	251	1	32.41	25.66	38.45	PASS
EGPRS850 (GMSK)	251	2	29.32	22.57	38.45	PASS
EGPRS850 (GMSK)	251	3	27.55	20.80	38.45	PASS
EGPRS850 (GMSK)	251	4	26.08	19.33	38.45	PASS
EGPRS850 (8PSK)	128	1	26.42	19.67	38.45	PASS
EGPRS850 (8PSK)	128	2	23.49	16.74	38.45	PASS
EGPRS850 (8PSK)	128	3	21.88	15.13	38.45	PASS
EGPRS850 (8PSK)	128	4	20.49	13.74	38.45	PASS
EGPRS850 (8PSK)	190	1	26.38	19.63	38.45	PASS
EGPRS850 (8PSK)	190	2	23.51	16.76	38.45	PASS
EGPRS850 (8PSK)	190	3	21.90	15.15	38.45	PASS
EGPRS850 (8PSK)	190	4	20.53	13.78	38.45	PASS
EGPRS850 (8PSK)	251	1	26.40	19.65	38.45	PASS
EGPRS850 (8PSK)	251	2	23.54	16.79	38.45	PASS
EGPRS850 (8PSK)	251	3	21.79	15.04	38.45	PASS
EGPRS850 (8PSK)	251	4	20.54	13.79	38.45	PASS



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Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	29.35	27.62	33.00	PASS
GSM1900	661	---	29.31	27.58	33.00	PASS
GSM1900	810	---	29.38	27.65	33.00	PASS
EGPRS1900 (GMSK)	512	1	29.33	27.60	33.00	PASS
EGPRS1900 (GMSK)	512	2	26.83	25.10	33.00	PASS
EGPRS1900 (GMSK)	512	3	25.04	23.31	33.00	PASS
EGPRS1900 (GMSK)	512	4	23.32	21.59	33.00	PASS
EGPRS1900 (GMSK)	661	1	29.29	27.56	33.00	PASS
EGPRS1900 (GMSK)	661	2	26.78	25.05	33.00	PASS
EGPRS1900 (GMSK)	661	3	25.06	23.33	33.00	PASS
EGPRS1900 (GMSK)	661	4	23.40	21.67	33.00	PASS
EGPRS1900 (GMSK)	810	1	29.24	27.51	33.00	PASS
EGPRS1900 (GMSK)	810	2	26.82	25.09	33.00	PASS
EGPRS1900 (GMSK)	810	3	24.95	23.22	33.00	PASS
EGPRS1900 (GMSK)	810	4	23.39	21.66	33.00	PASS
EGPRS1900 (8PSK)	512	1	25.45	23.72	33.00	PASS
EGPRS1900 (8PSK)	512	2	22.24	20.51	33.00	PASS
EGPRS1900 (8PSK)	512	3	20.35	18.62	33.00	PASS
EGPRS1900 (8PSK)	512	4	19.11	17.38	33.00	PASS
EGPRS1900 (8PSK)	661	1	25.52	23.79	33.00	PASS
EGPRS1900 (8PSK)	661	2	22.19	20.46	33.00	PASS
EGPRS1900 (8PSK)	661	3	20.37	18.64	33.00	PASS
EGPRS1900 (8PSK)	661	4	19.15	17.42	33.00	PASS
EGPRS1900 (8PSK)	810	1	25.27	23.54	33.00	PASS
EGPRS1900 (8PSK)	810	2	22.20	20.47	33.00	PASS
EGPRS1900 (8PSK)	810	3	20.22	18.49	33.00	PASS
EGPRS1900 (8PSK)	810	4	19.02	17.29	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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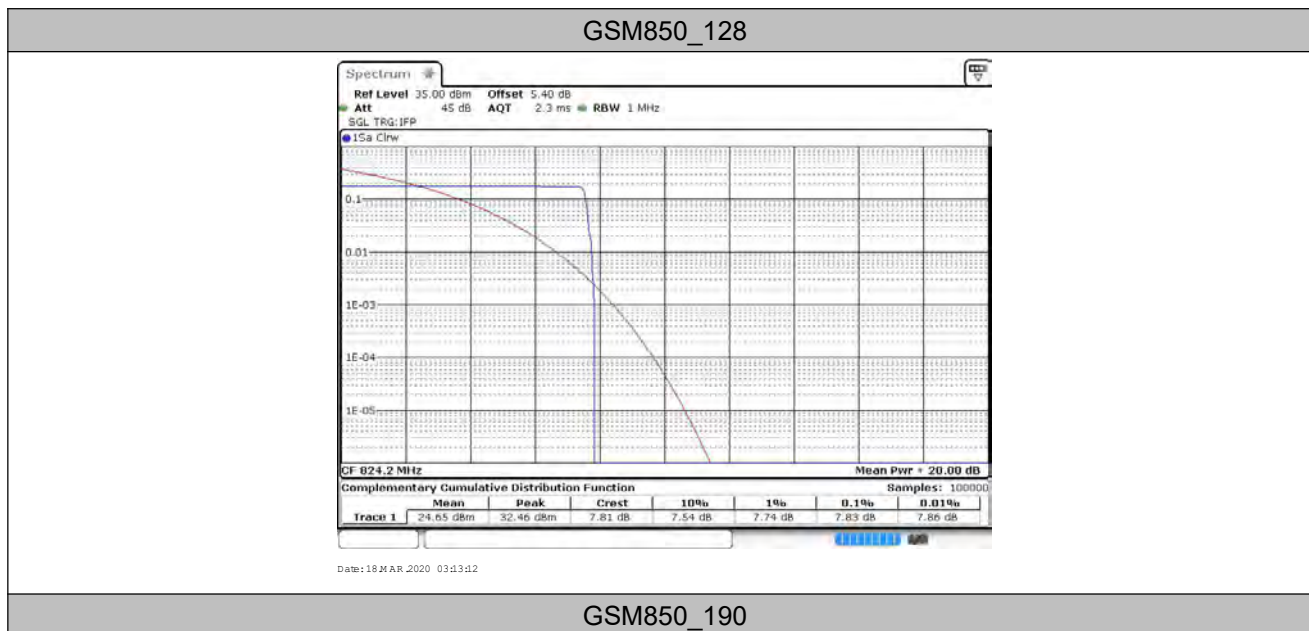


2. Peak-to-Average Ratio

2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
GSM850	128	7.83	13	PASS
GSM850	190	7.86	13	PASS
GSM850	251	7.83	13	PASS
EGPRS850	128	10.67	13	PASS
EGPRS850	190	10.75	13	PASS
EGPRS850	251	10.84	13	PASS
GSM1900	512	7.91	13	PASS
GSM1900	661	7.91	13	PASS
GSM1900	810	7.86	13	PASS
EGPRS1900	512	10.87	13	PASS
EGPRS1900	661	10.61	13	PASS
EGPRS1900	810	7.88	13	PASS

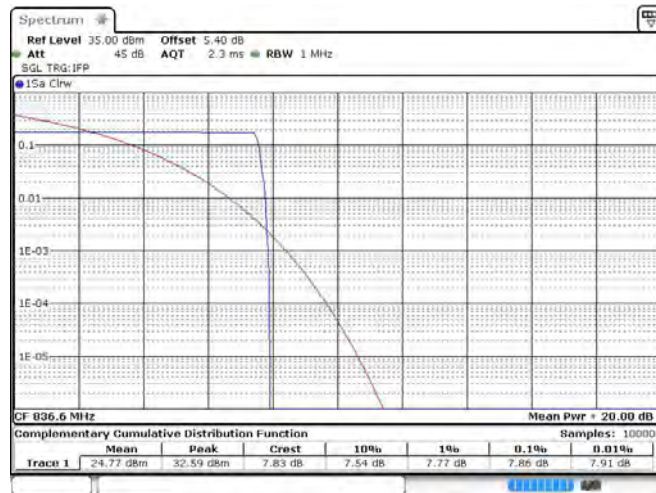
2.2. Part II - Test Plots



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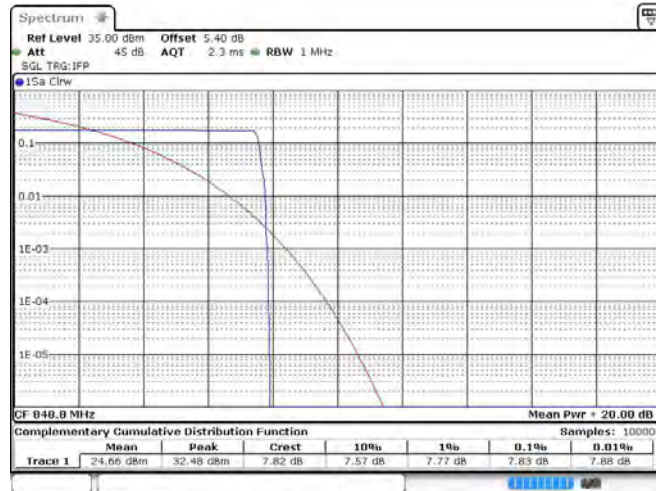
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Date: 18 MAR 2020 03:13:39

GSM850_251

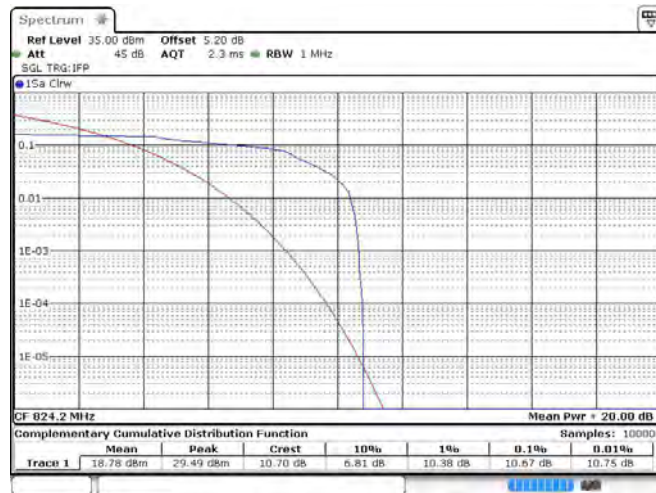


Date: 18 MAR 2020 03:14:06

EGPRS850_128

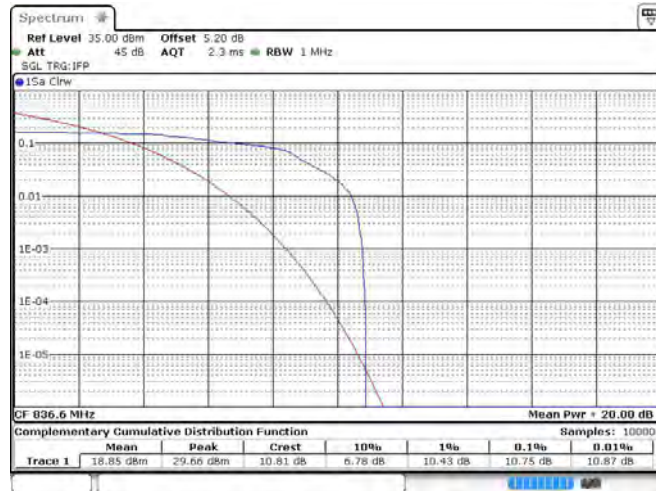


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Date: 18 MAR 2020 08:20:02

EGPRS850_190

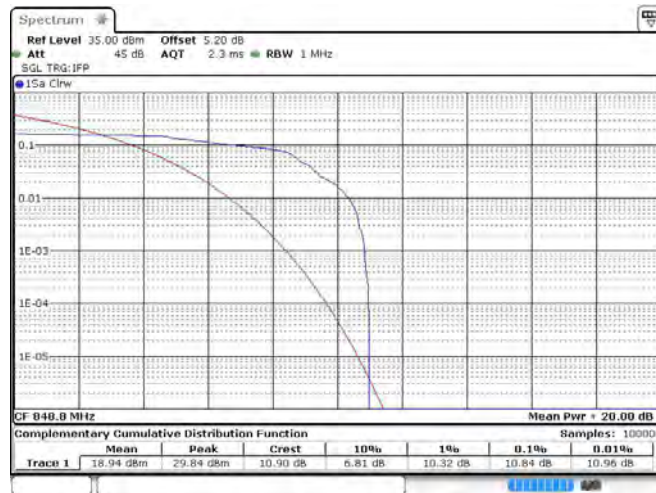


Date: 18 MAR 2020 08:20:00

EGPRS850_251

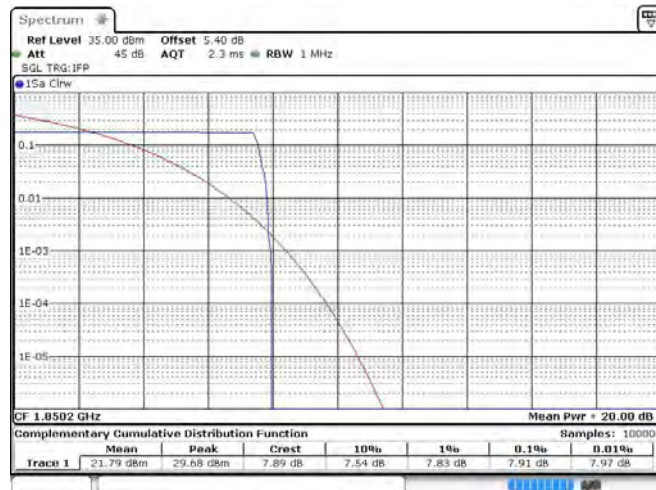


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Date: 18 MAR 2020 08:20:57

GSM1900_512

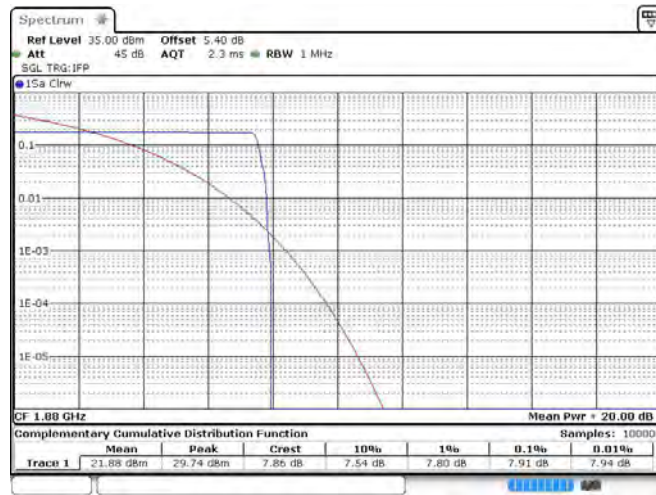


Date: 18 MAR 2020 01:46:33

GSM1900_661

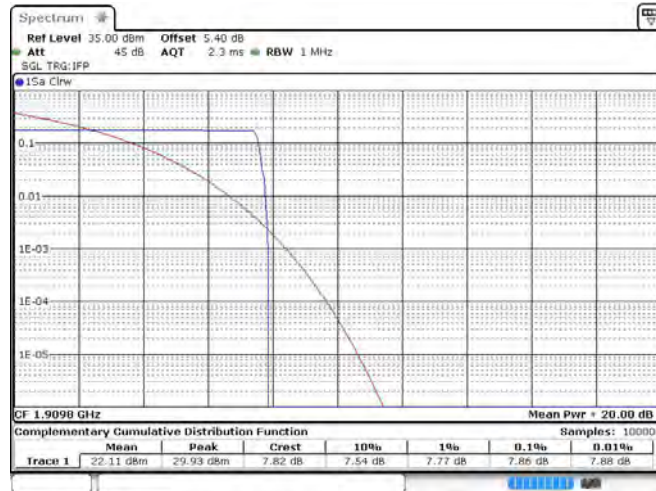


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GSM1900_810



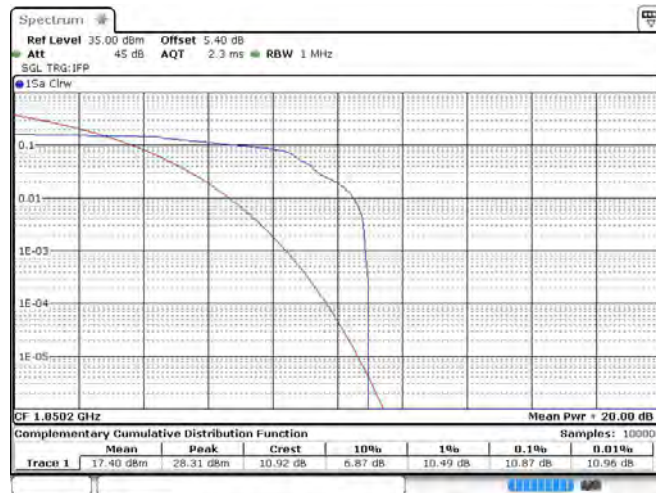
Date: 18 MAR 2020 01:49:28

EGPRS1900_512



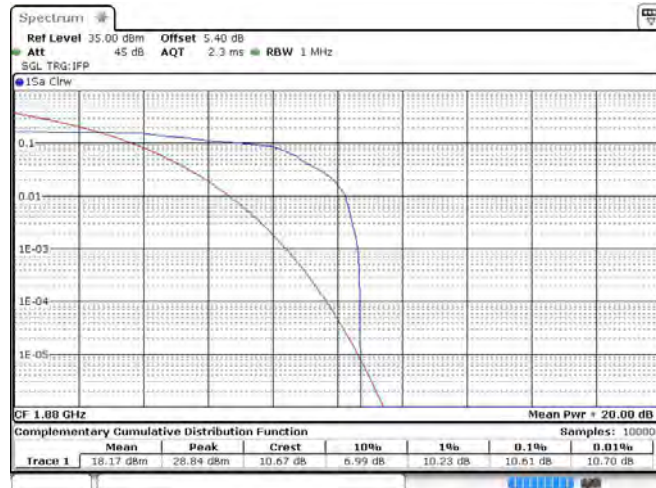
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Date: 18 MAR 2020 06:20:49

EGPRS1900_661

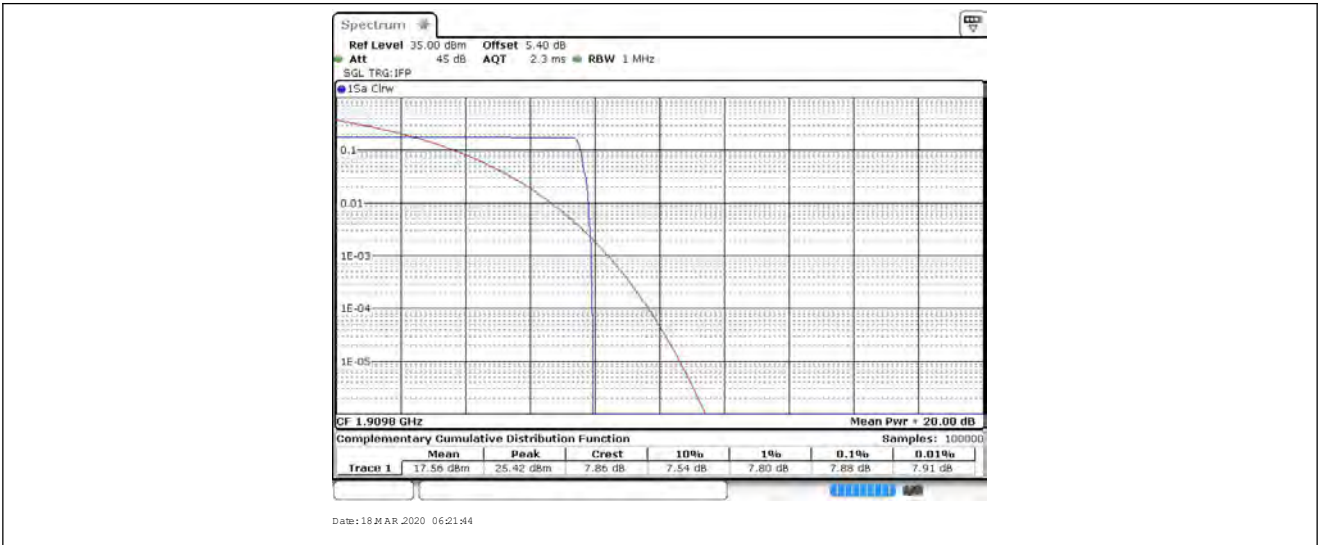


Date: 18 MAR 2020 06:21:17

EGPRS1900_810



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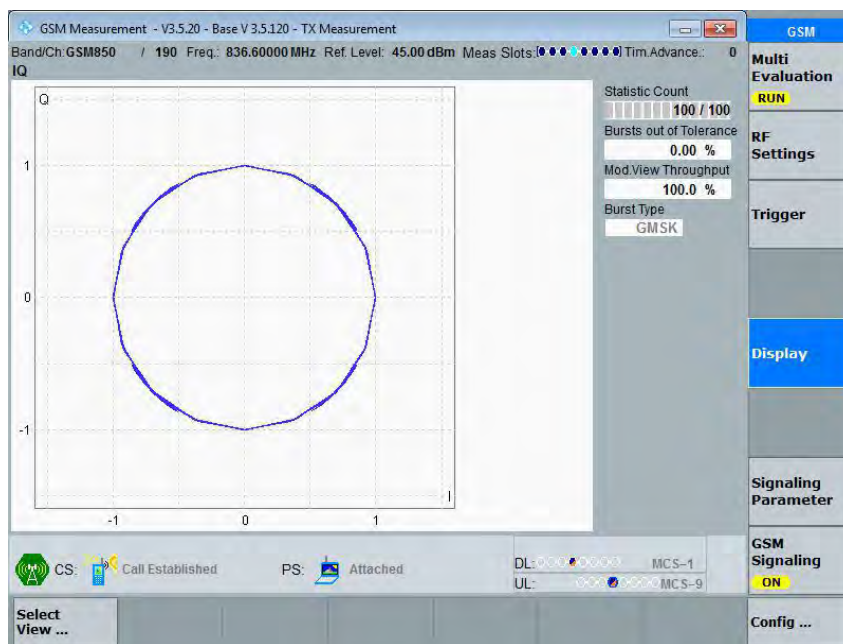
3. Modulation Characteristics

3.1. For GSM

3.1.1. Test Band = GSM 850

3.1.1.1. Test Mode = GSM/TM1

3.1.1.1.1. Test Channel = MCH



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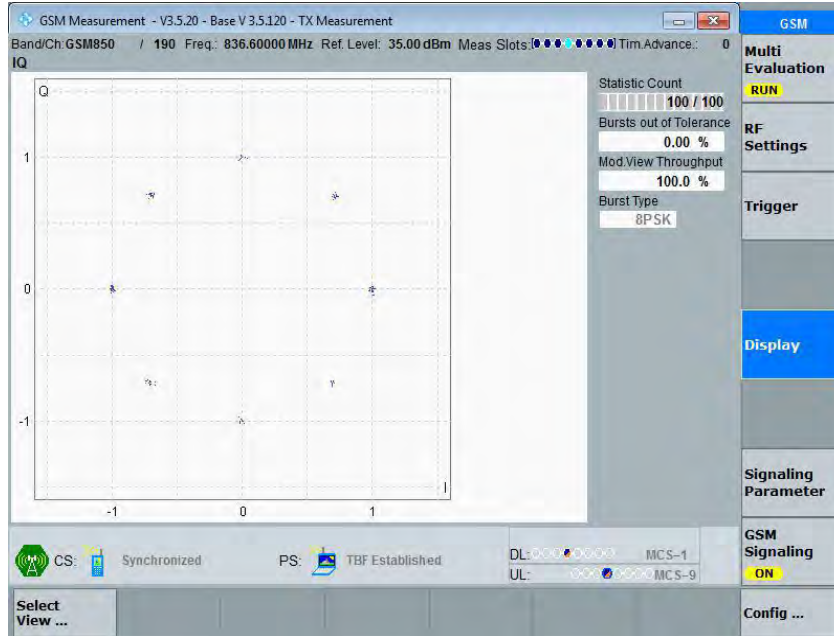
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3.1.1.2. Test Mode = GSM/TM2

3.1.1.2.1. Test Channel = MCH



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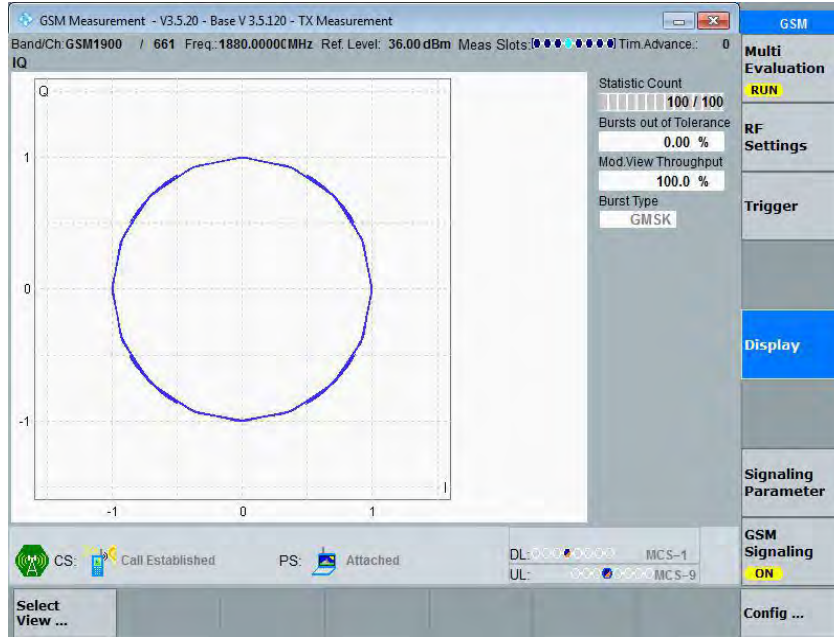
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3.1.2. Test Band = GSM 1900

3.1.2.1. Test Mode = GSM/TM1

3.1.2.1.1. Test Channel = MCH



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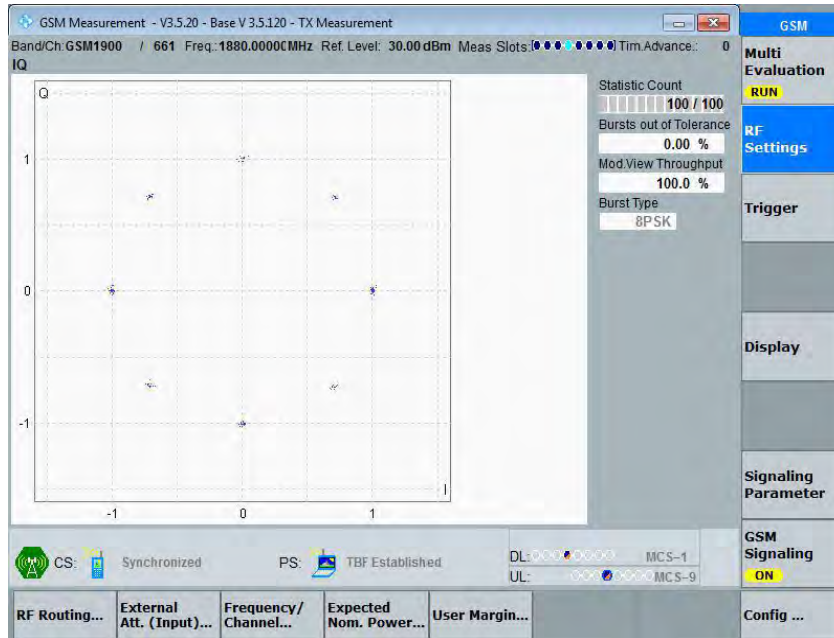
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3.1.2.2. Test Mode = GSM/TM2

3.1.2.2.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

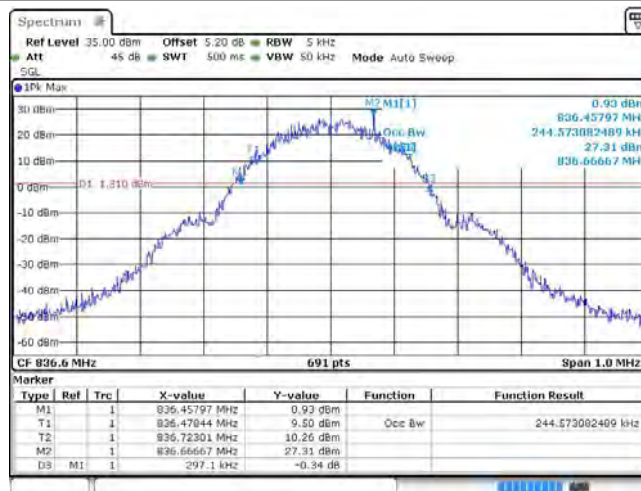
4.1. Test Plots

GSM850_128



Date: 18 MAR 2020 03:07:29

GSM850_190



Date: 18 MAR 2020 03:07:54

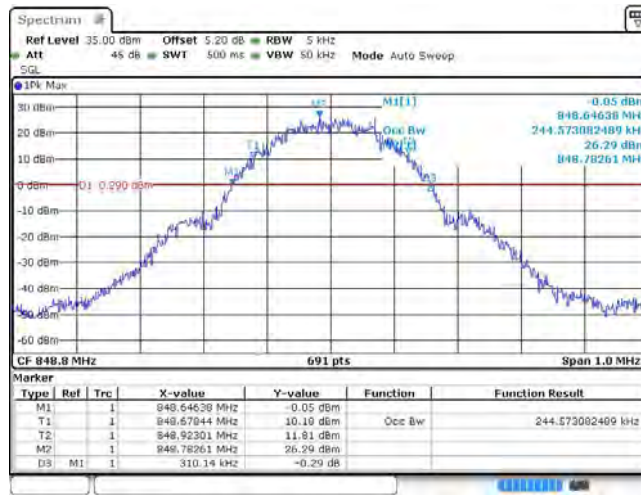
GSM850_251



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Date: 18 MAR 2020 03:08:20

EGPRS850_128



Date: 18 MAR 2020 08:24:16

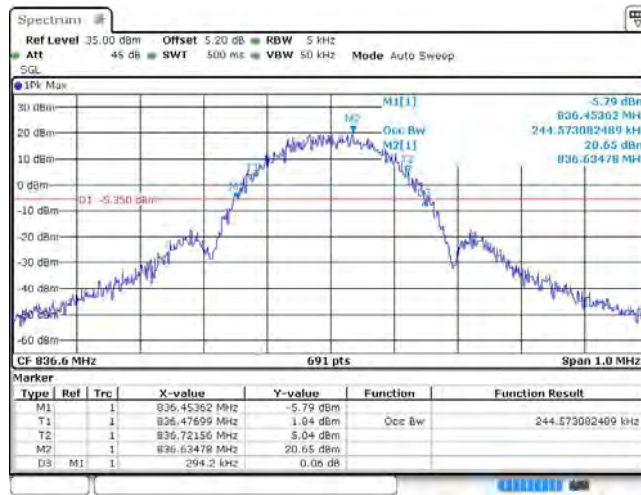
EGPRS850_190



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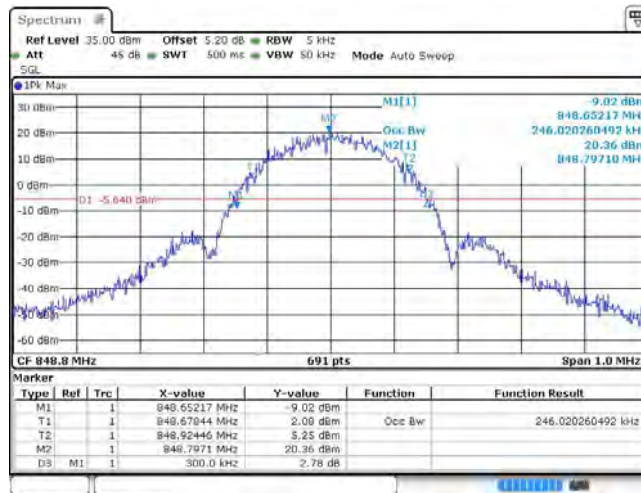
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Date: 18 MAR 2020 08:14:44

EGPRS850_251



Date: 18 MAR 2020 08:15:11

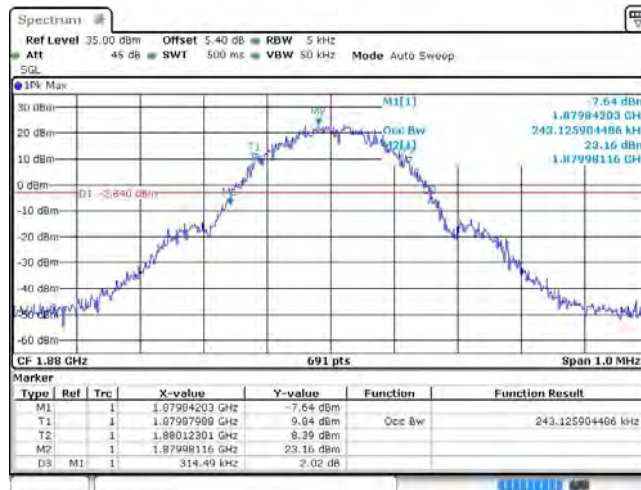
GSM1900_512



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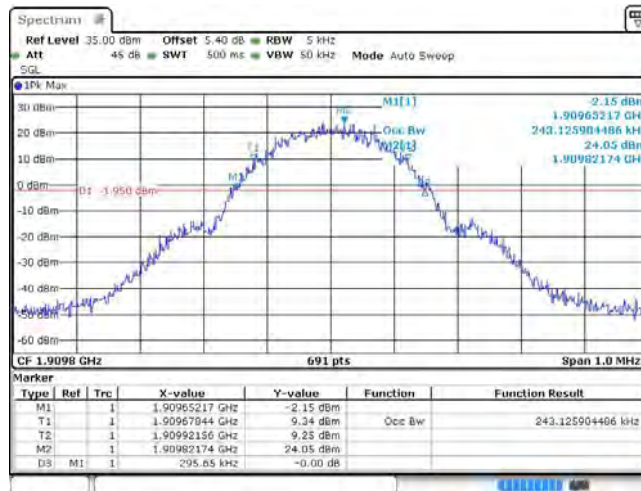
GSM1900_661



GSM1900_810



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Date: 18 MAR 2020 01:42:26

EGPRS1900_512

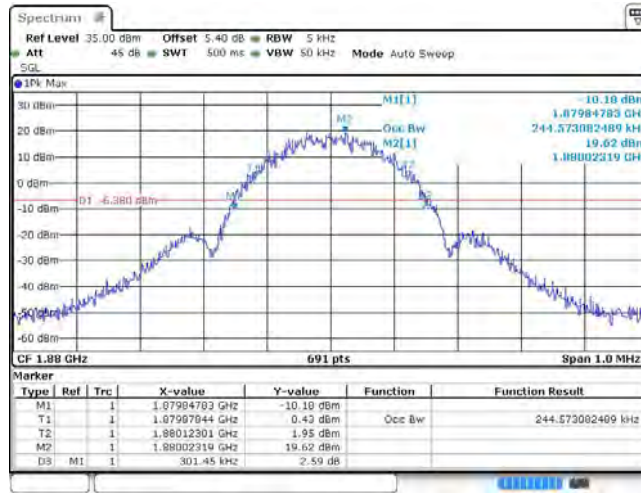


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Date: 18 MAR 2020 06:14:18

EGPRS1900_810



Date: 18 MAR 2020 06:14:45

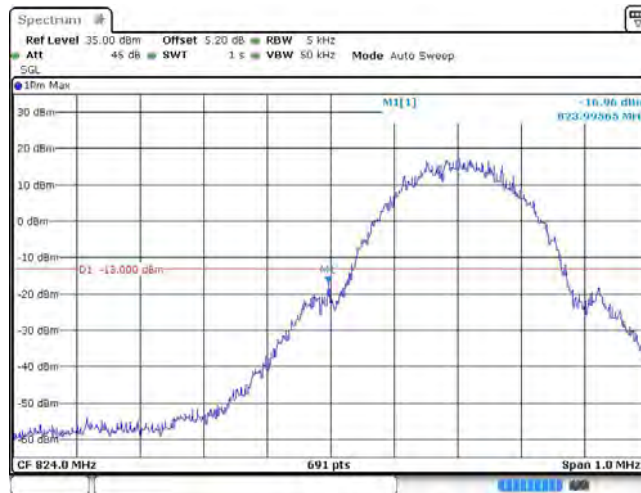


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5. Band Edge Compliance

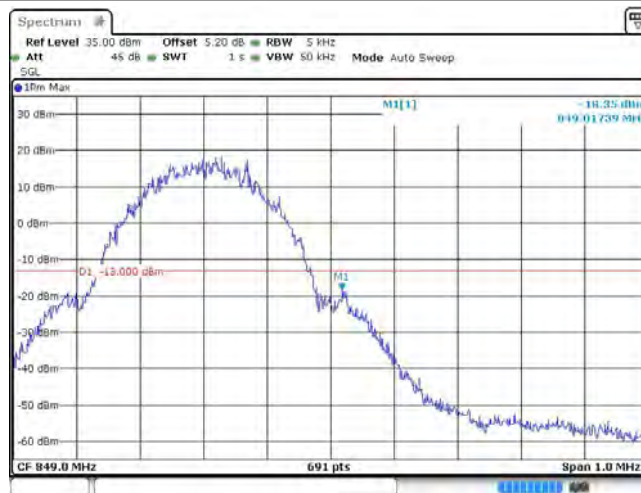
5.1. Test Plots

GSM850_128



Date: 18 MAR 2020 03:09:00

GSM850_251



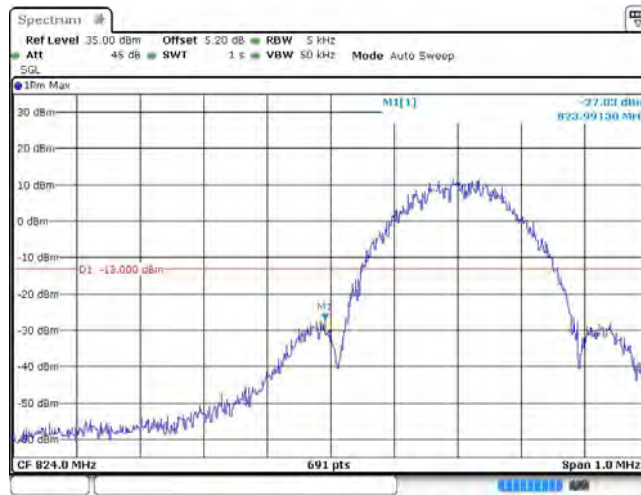
Date: 18 MAR 2020 03:09:04

EGPRS850_128



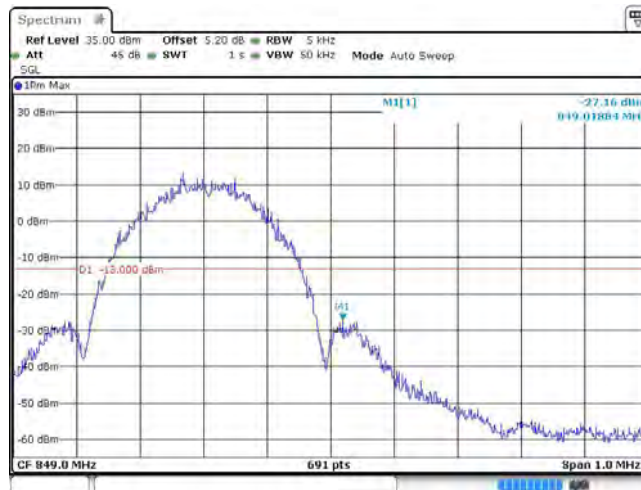
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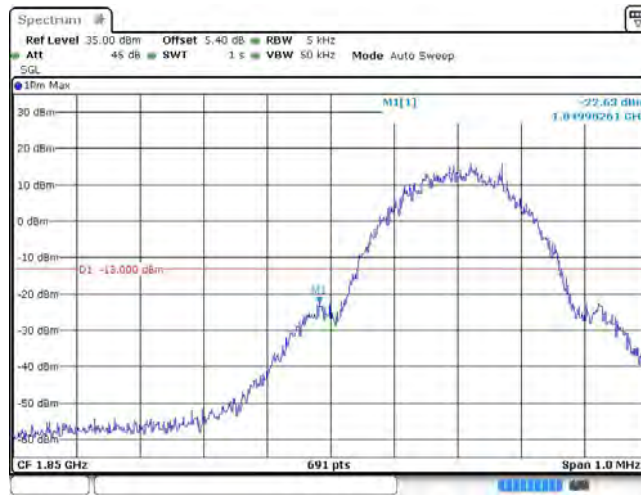


Date: 18 MAR 2020 08:16:26

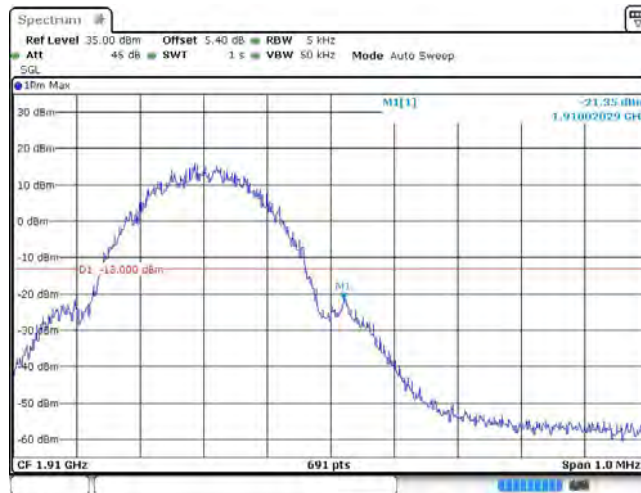
GSM1900_512



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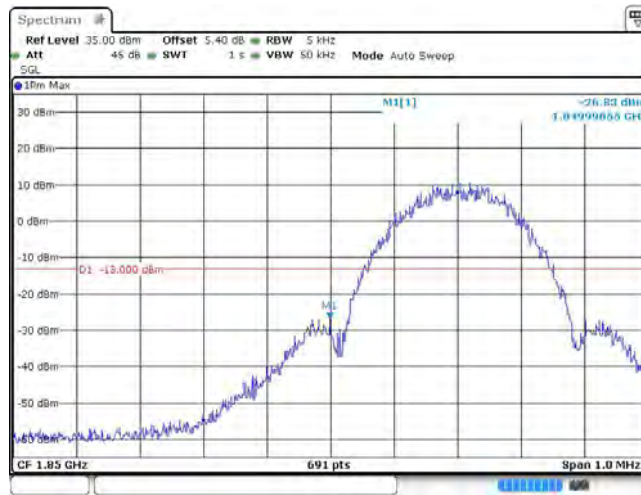
GSM1900_810



EGPRS1900_512

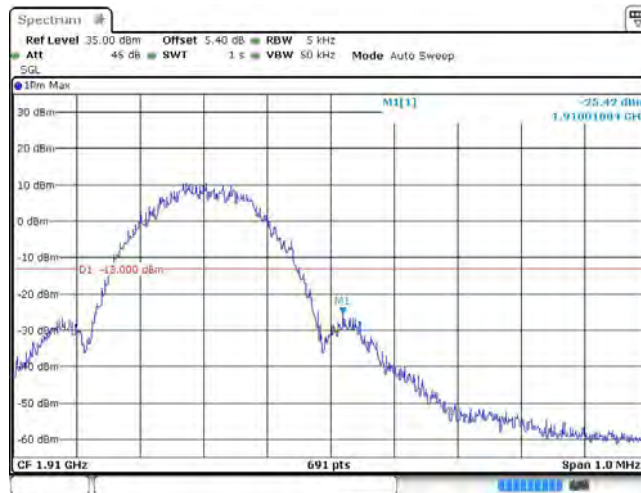


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Date: 18 MAR 2020 06:15:26

EGPRS1900_810



Date: 18 MAR 2020 06:16:00



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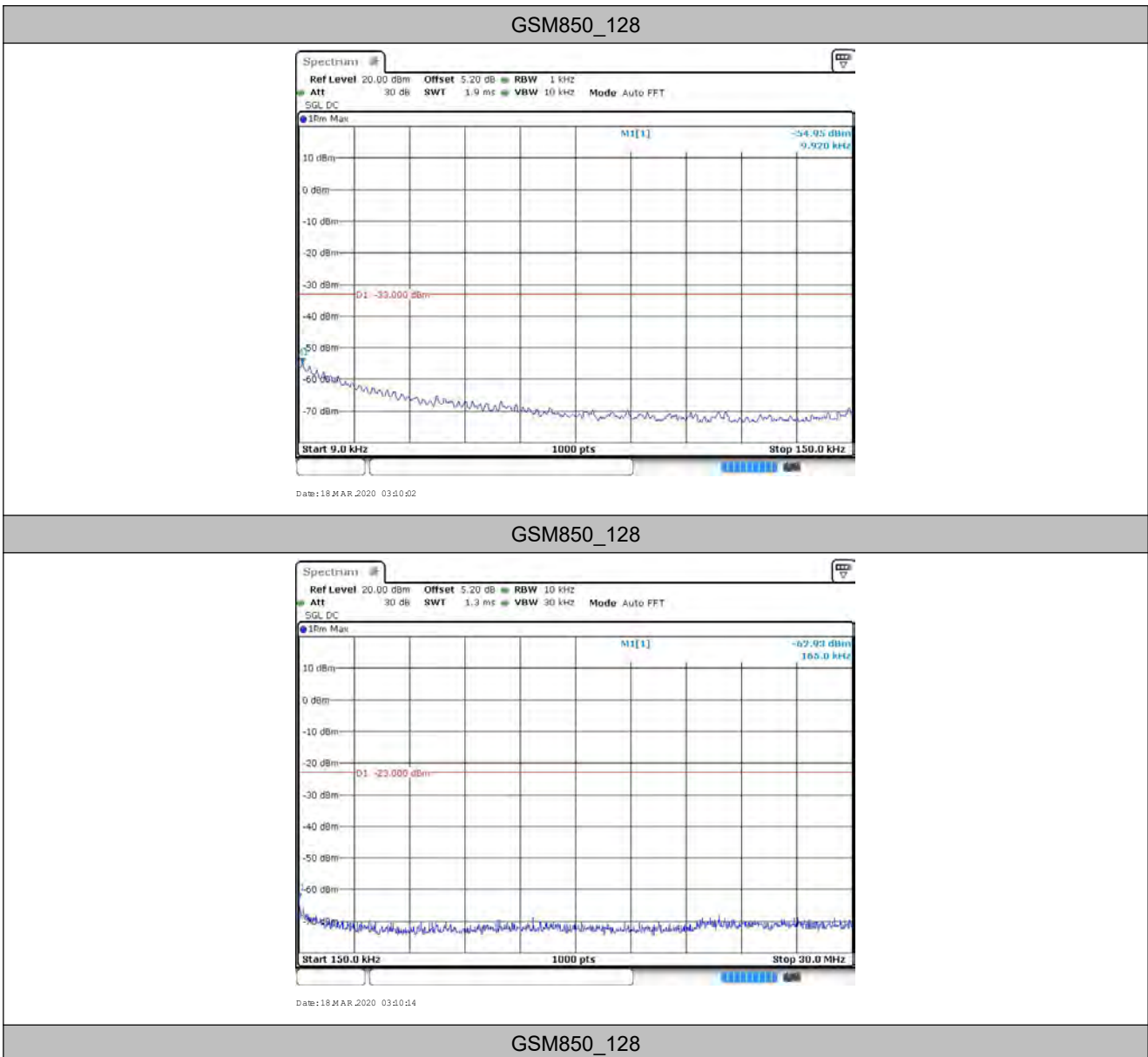


6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

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

6.1. Test Plots

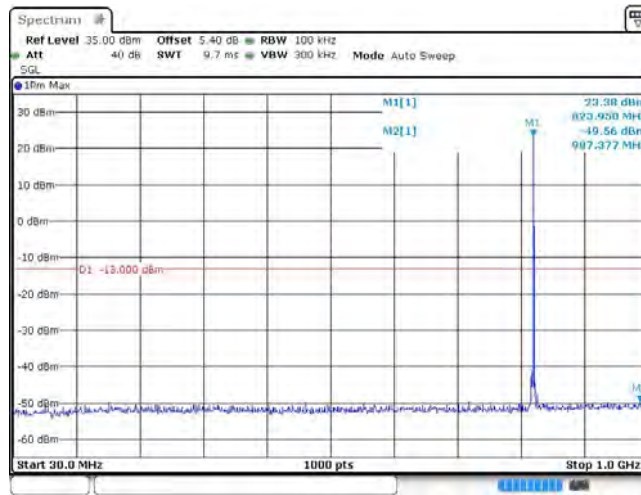


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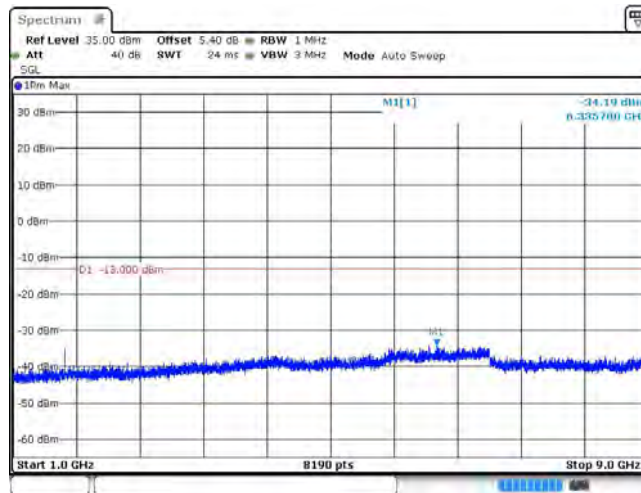
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Shenzhen Branch (China) Testing Laboratory

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Date: 18 MAR 2020 03:10:28

GSM850_128

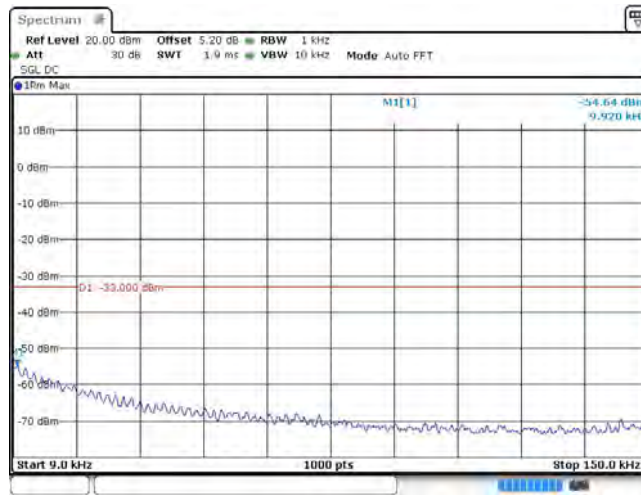


Date: 18 MAR 2020 03:10:40

GSM850_190

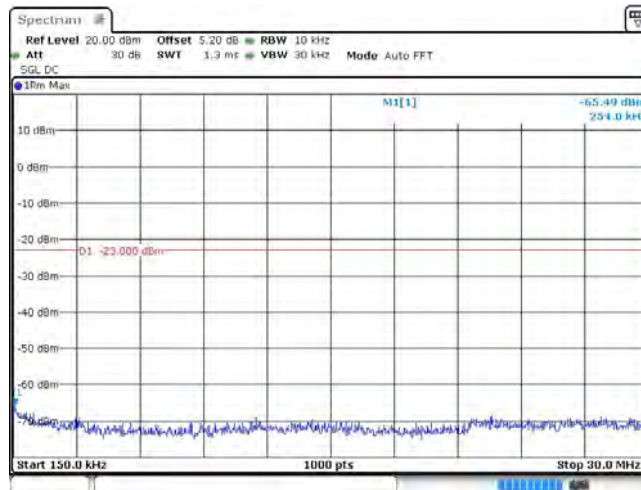


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Date: 18 MAR 2020 03:11:00

GSM850_190

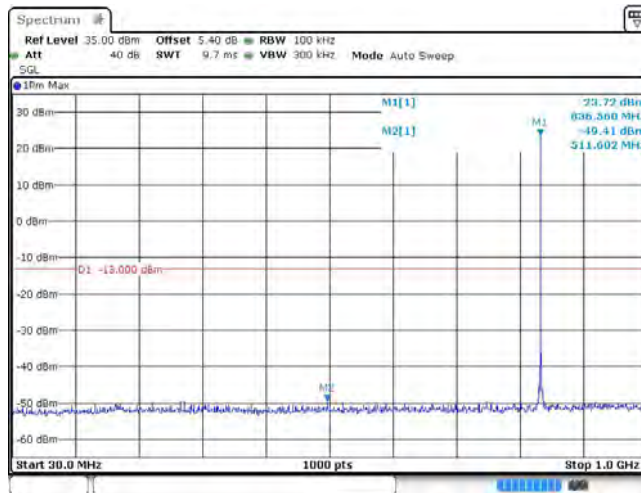


Date: 18 MAR 2020 03:11:12

GSM850_190

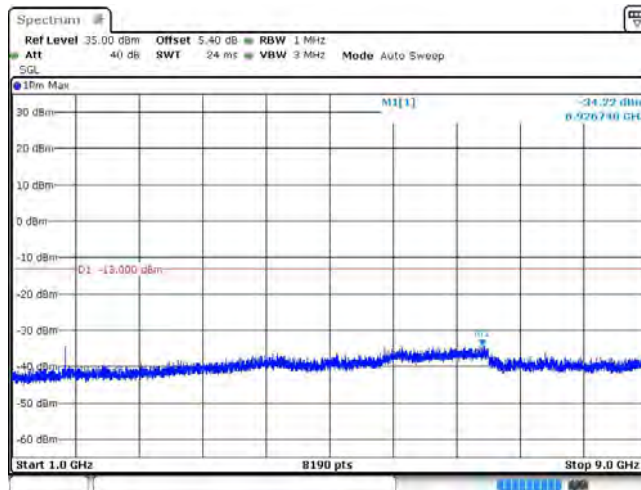


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Date: 18 MAR 2020 03:11:26

GSM850_190

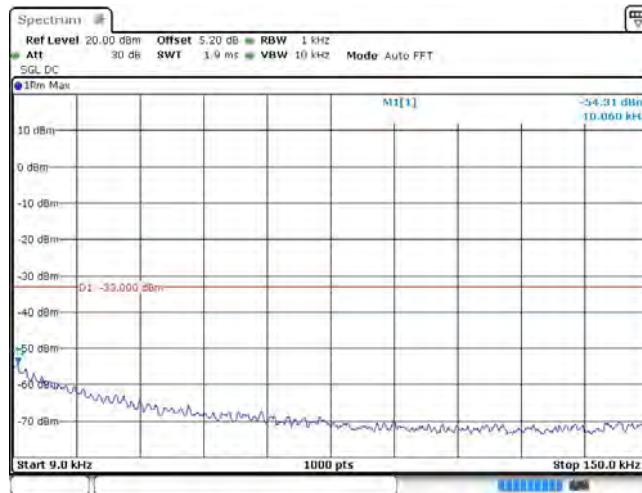


Date: 18 MAR 2020 03:11:08

GSM850_251

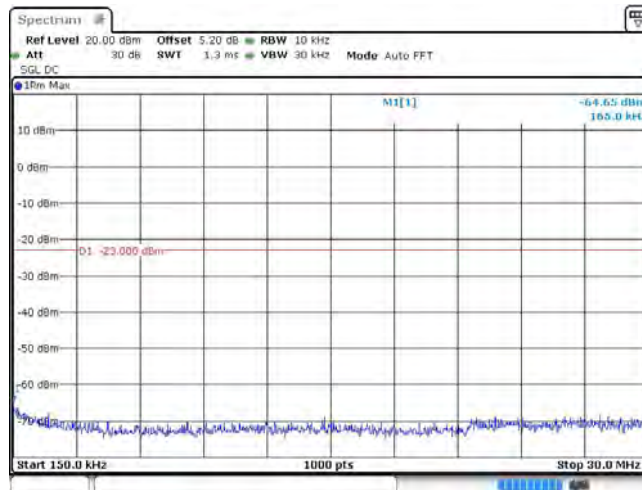


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Date: 18 MAR 2020 03:11:57

GSM850_251

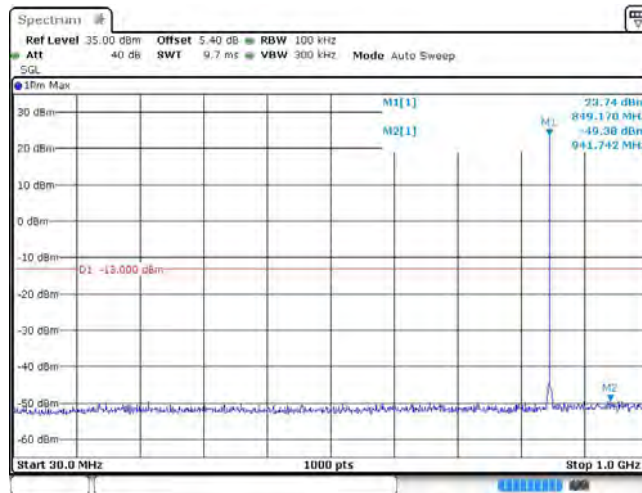


Date: 18 MAR 2020 03:12:10

GSM850_251

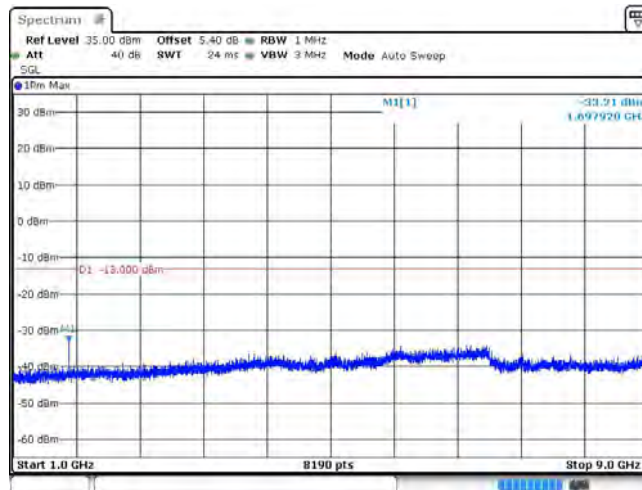


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Date: 18 MAR 2020 03:22:23

GSM850_251

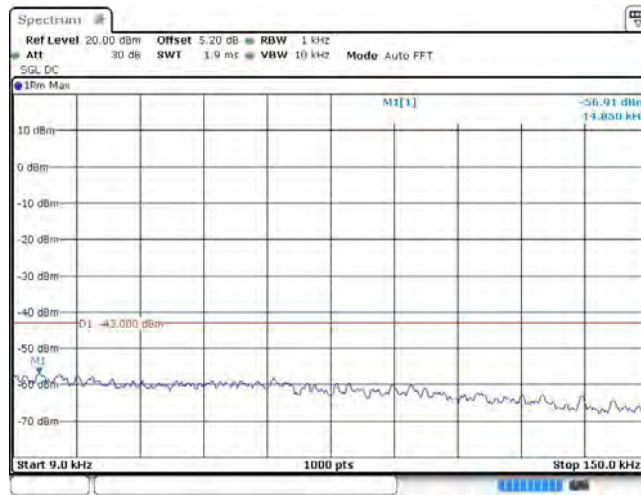


Date: 18 MAR 2020 03:22:26

EGPRS850_128

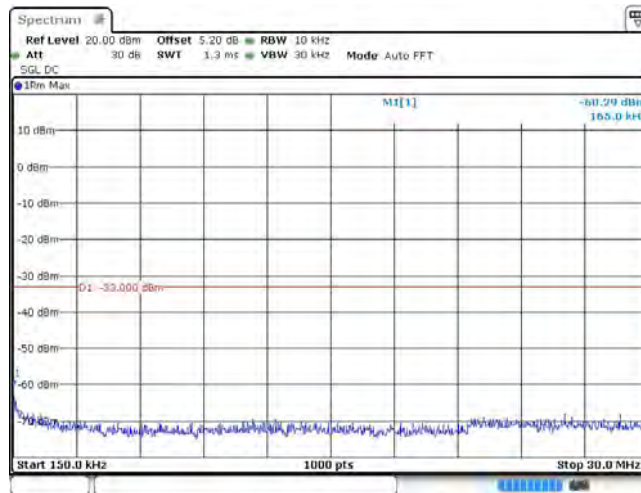


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Date: 18 MAR 2020 08:16:54

EGPRS850_128



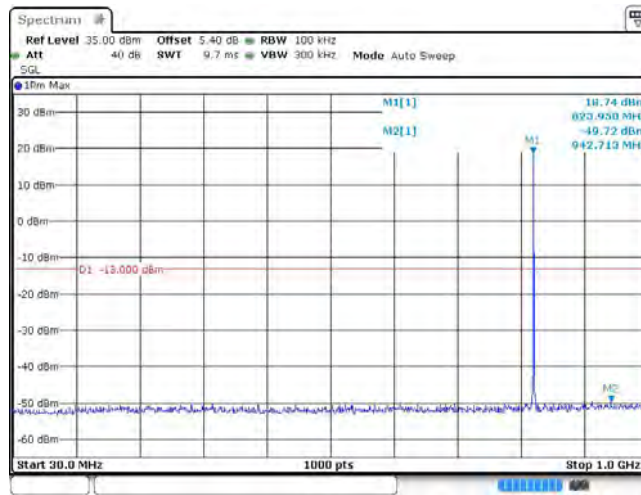
Date: 18 MAR 2020 08:17:05

EGPRS850_128



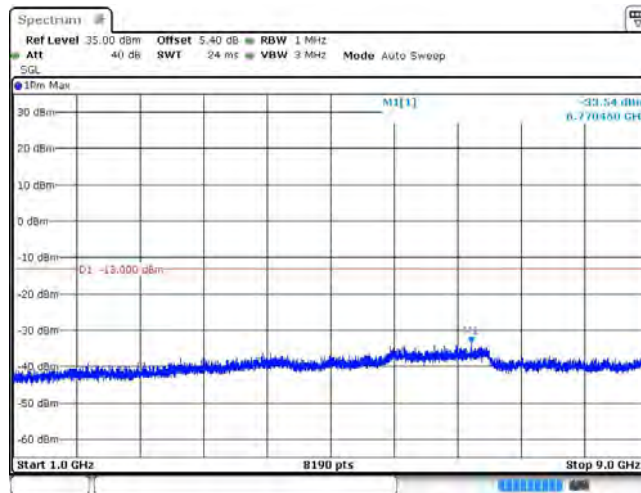
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Date: 18 MAR 2020 08:17:18

EGPRS850_128

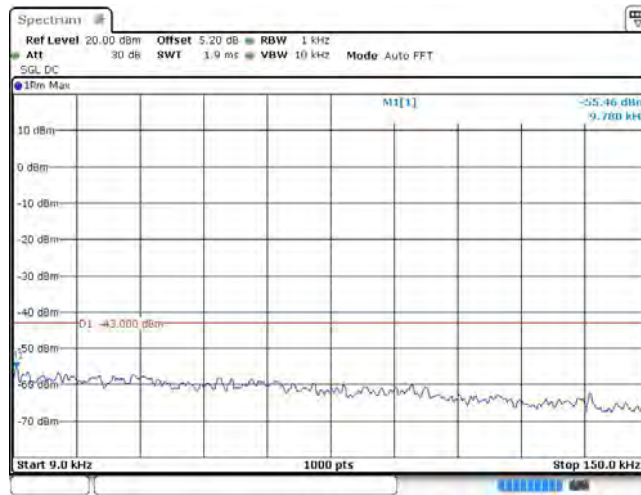


Date: 18 MAR 2020 08:17:30

EGPRS850_190

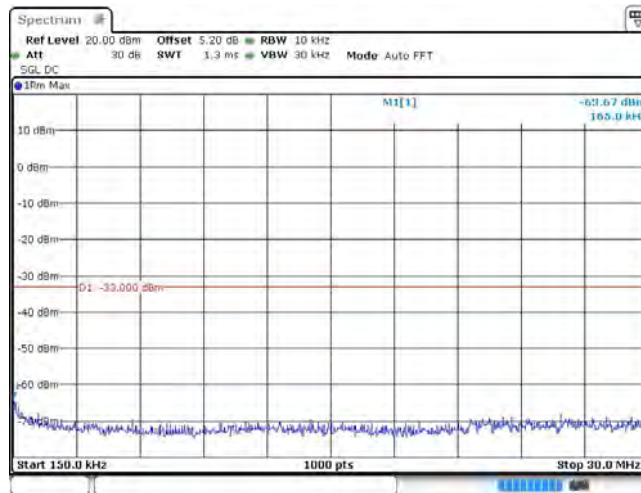


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Date: 18 MAR 2020 08:17:49

EGPRS850_190

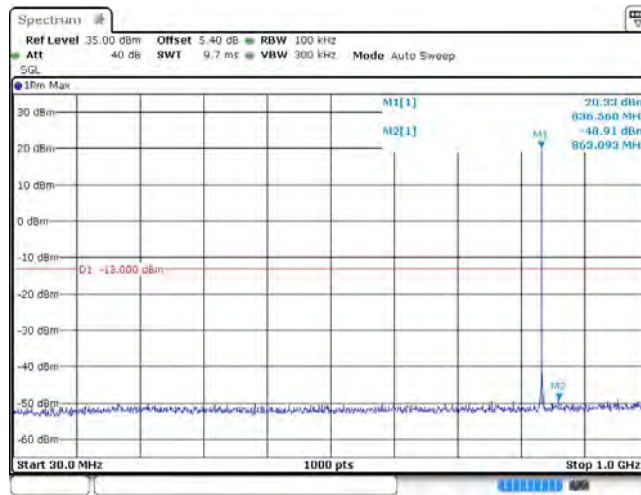


Date: 18 MAR 2020 08:18:00

EGPRS850_190

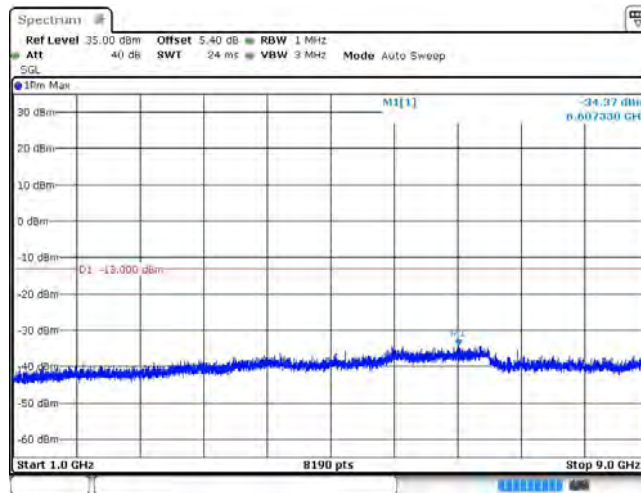


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Date: 18 MAR 2020 08:18:20

EGPRS850_190

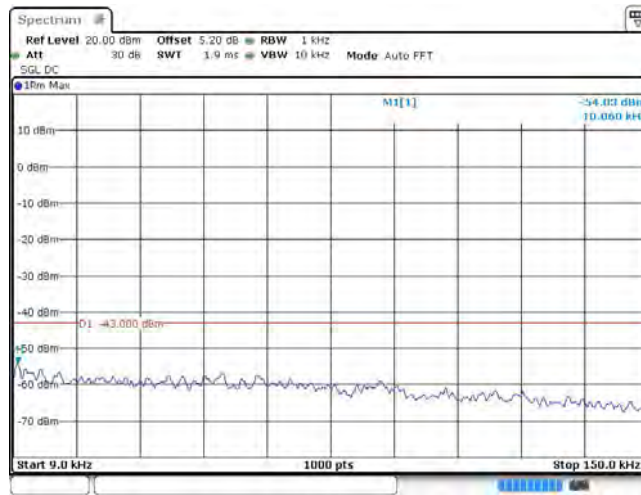


Date: 18 MAR 2020 08:18:32

EGPRS850_251

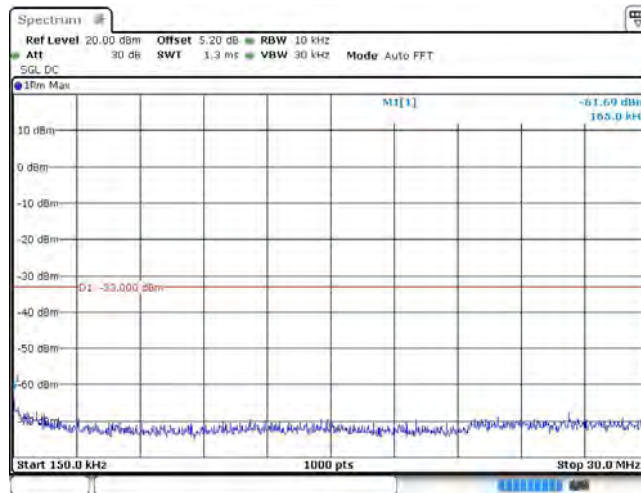


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Date: 18 MAR 2020 08:18:50

EGPRS850_251



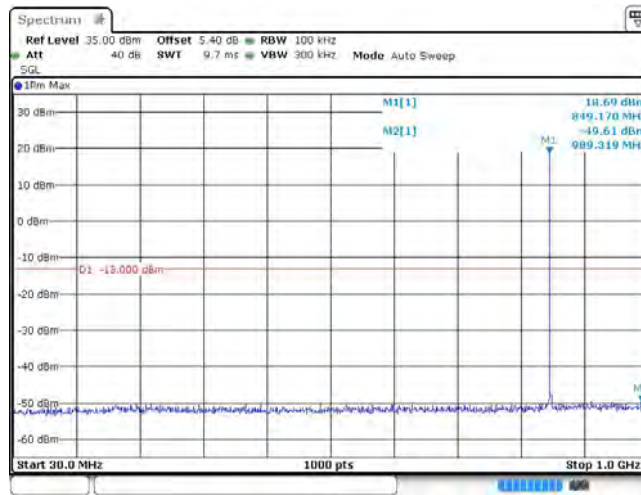
Date: 18 MAR 2020 08:19:02

EGPRS850_251



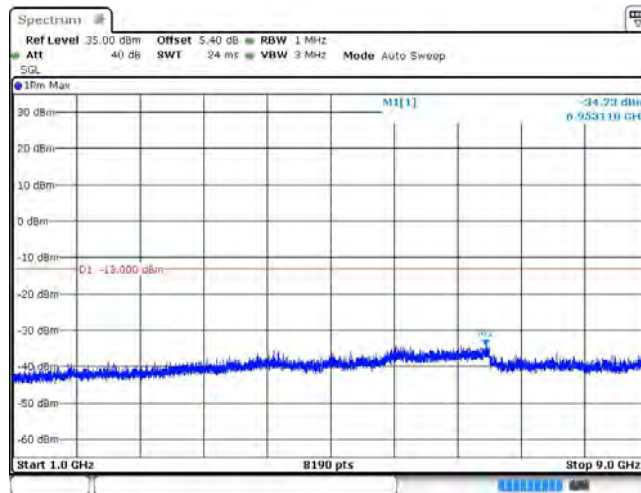
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Date: 18 MAR 2020 08:19:15

EGPRS850_251

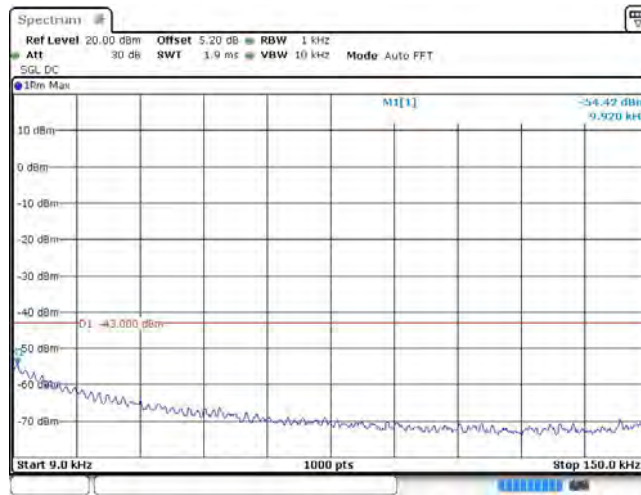


Date: 18 MAR 2020 08:19:27

GSM1900_512

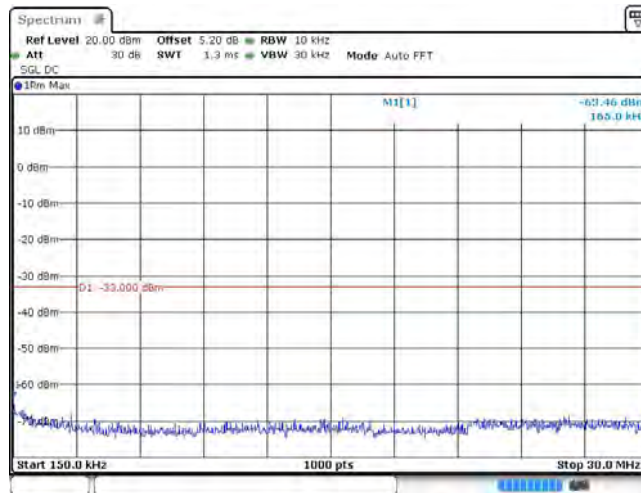


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Date: 18 MAR 2020 01:44:08

GSM1900_512

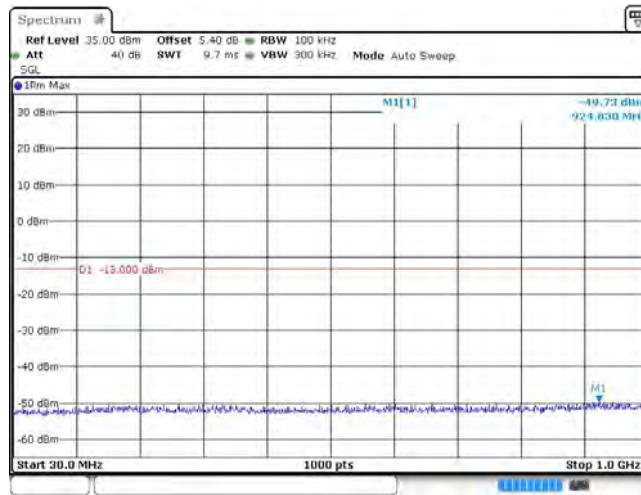


Date: 18 MAR 2020 01:44:21

GSM1900_512

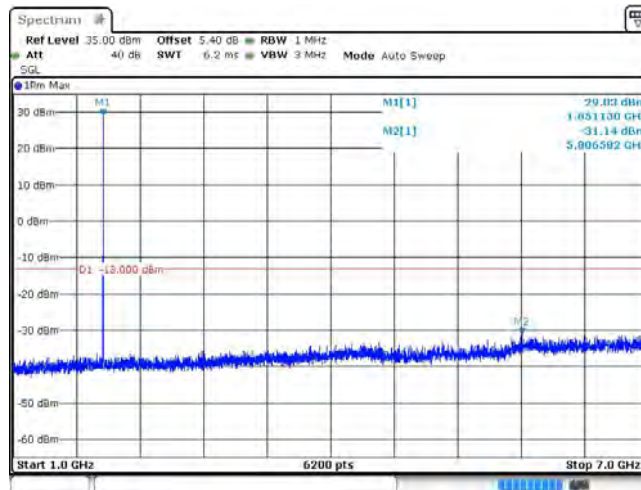


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Date: 18 MAR 2020 01:44:33

GSM1900_512

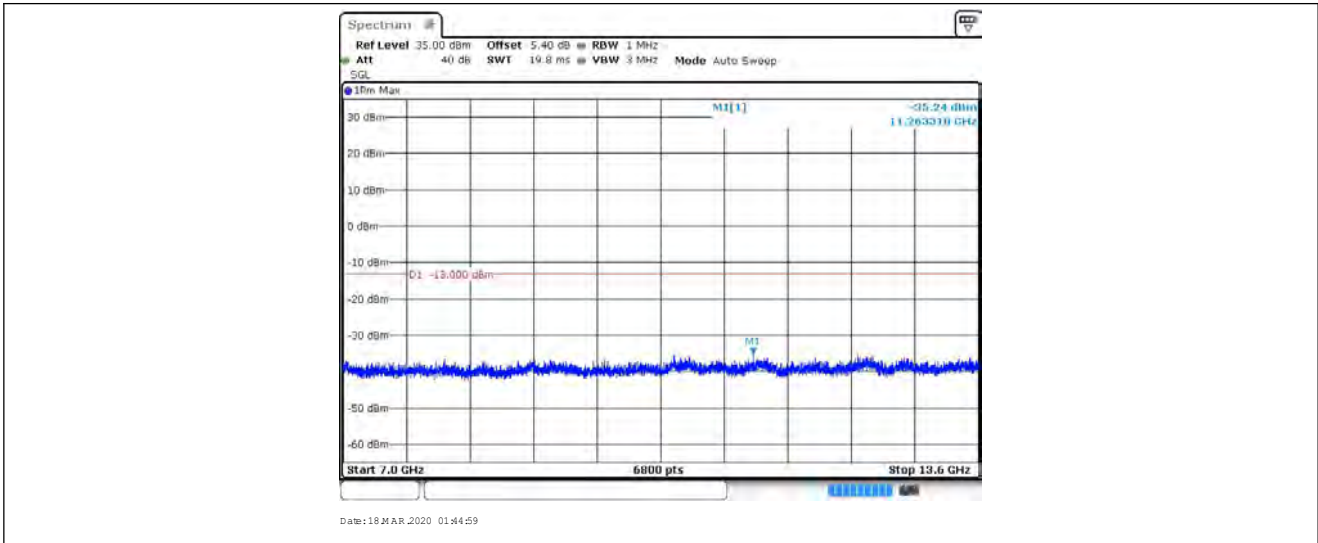


Date: 18 MAR 2020 01:44:47

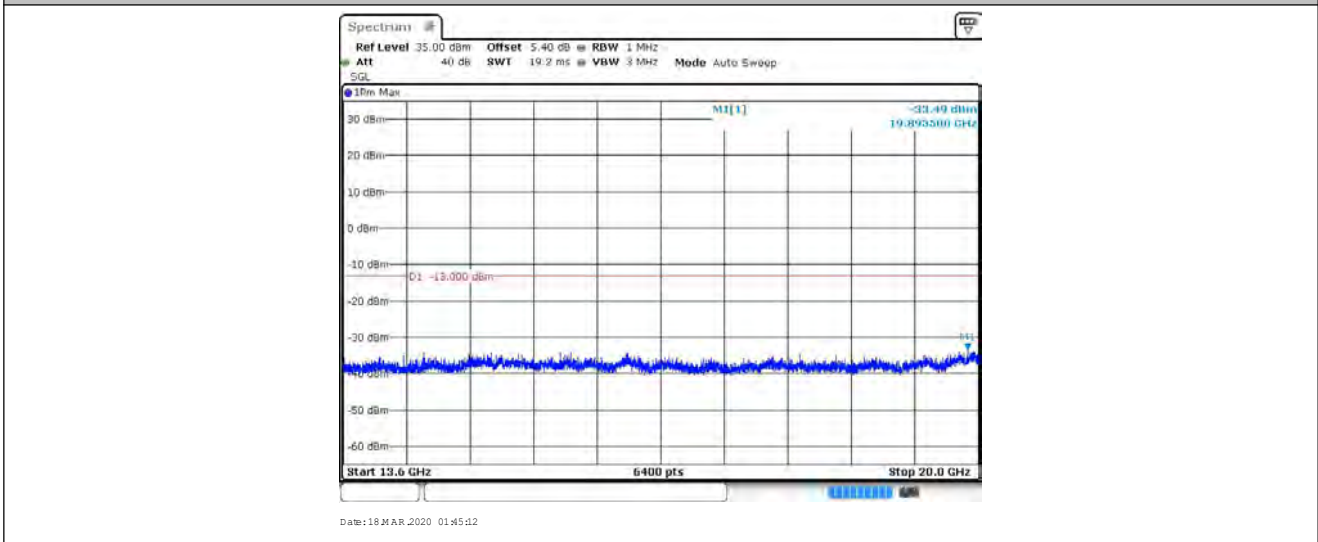
GSM1900_512



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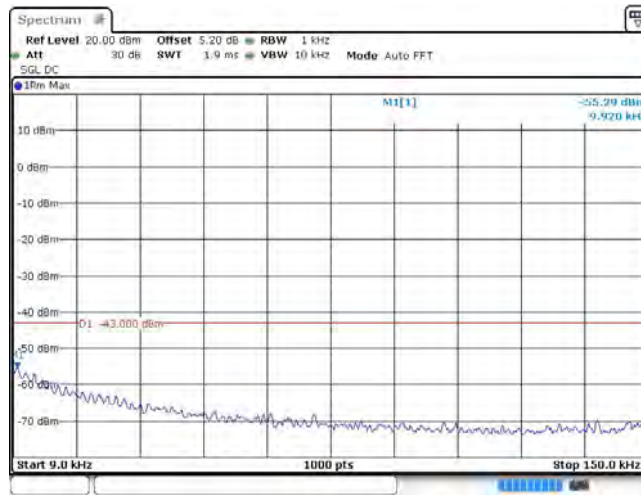
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GSM1900_661

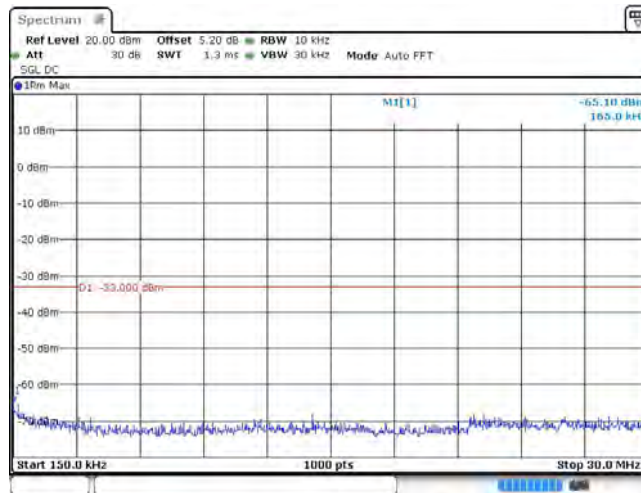


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Date: 18 MAR 2020 01:45:31

GSM1900_661

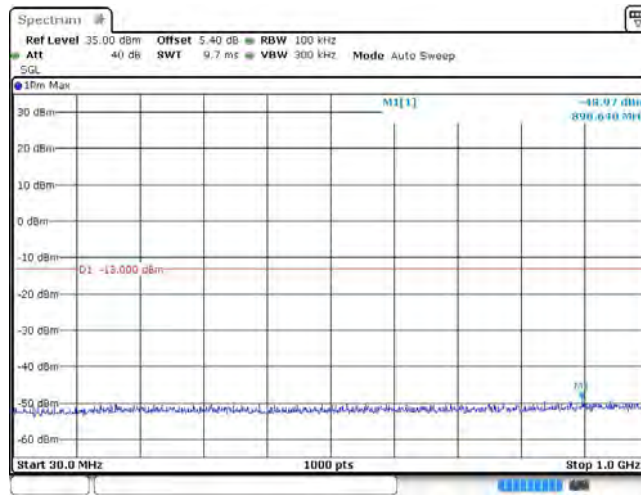


Date: 18 MAR 2020 01:45:43

GSM1900_661

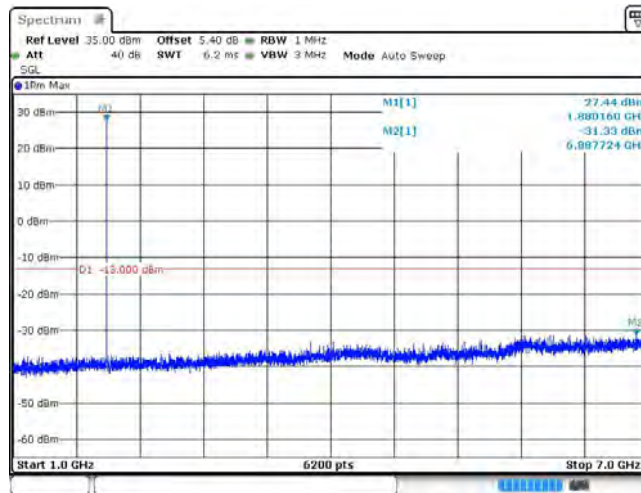


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Date: 18 MAR 2020 01:45:56

GSM1900_661

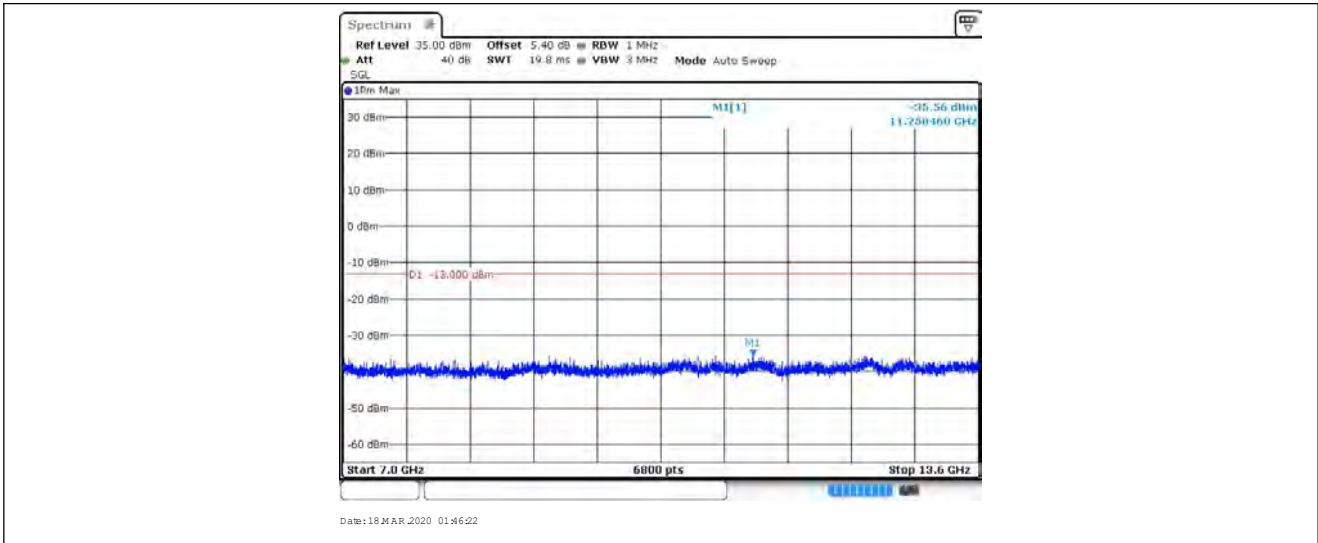


Date: 18 MAR 2020 01:46:09

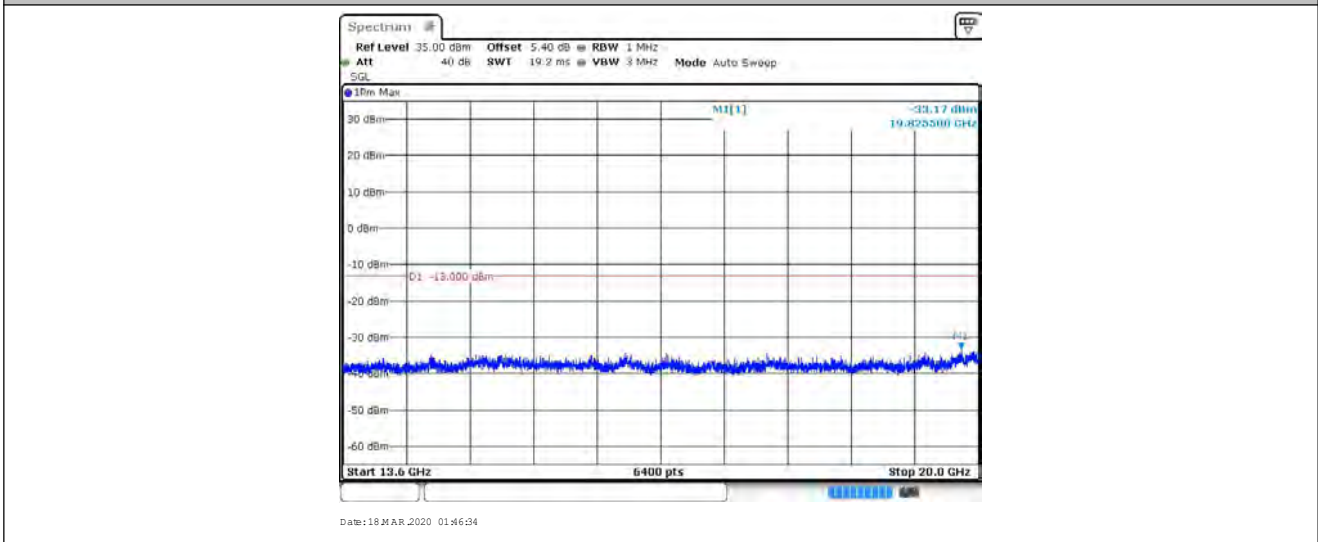
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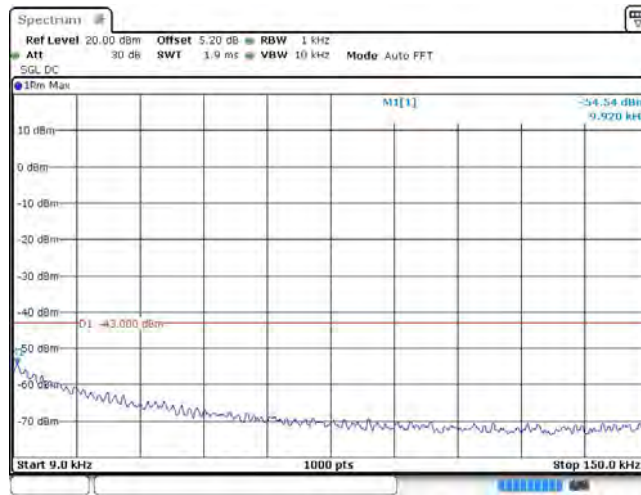
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GSM1900_810

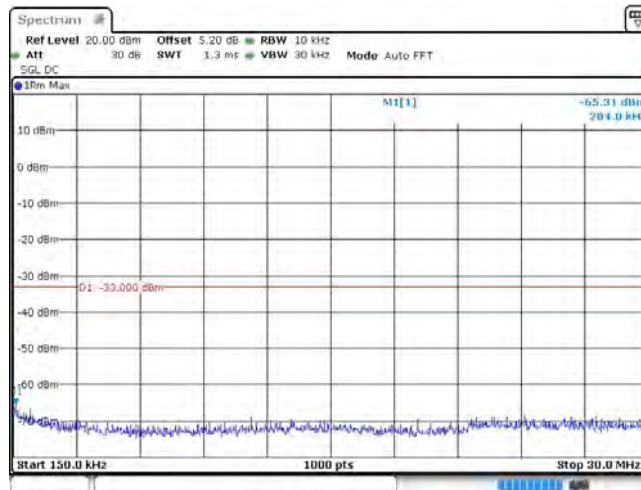


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Date: 18 MAR 2020 01:46:54

GSM1900_810

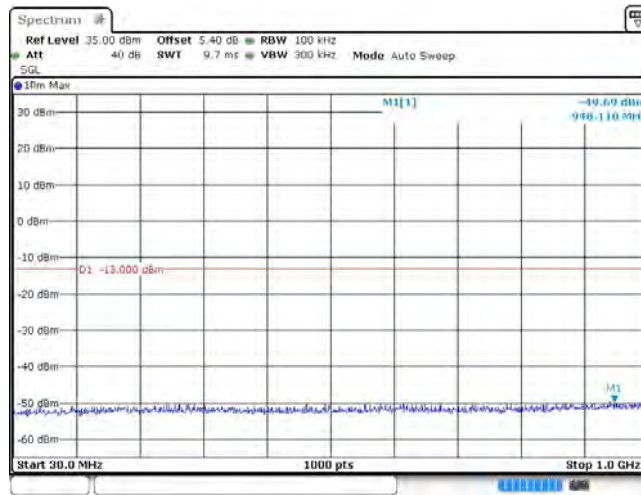


Date: 18 MAR 2020 01:47:06

GSM1900_810

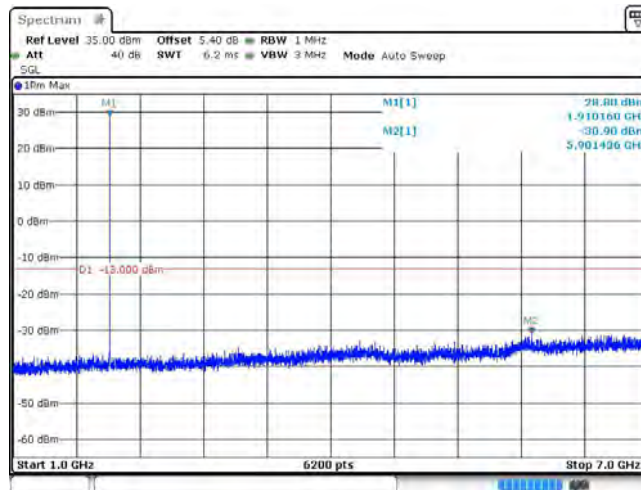


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Date: 18 MAR 2020 01:47:18

GSM1900_810

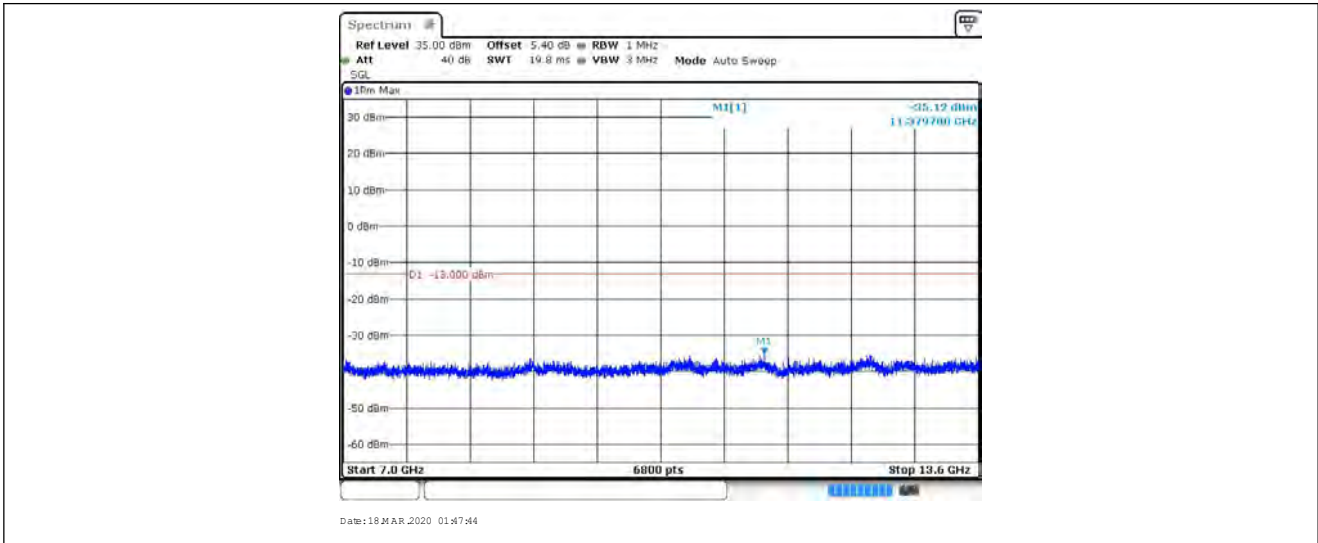


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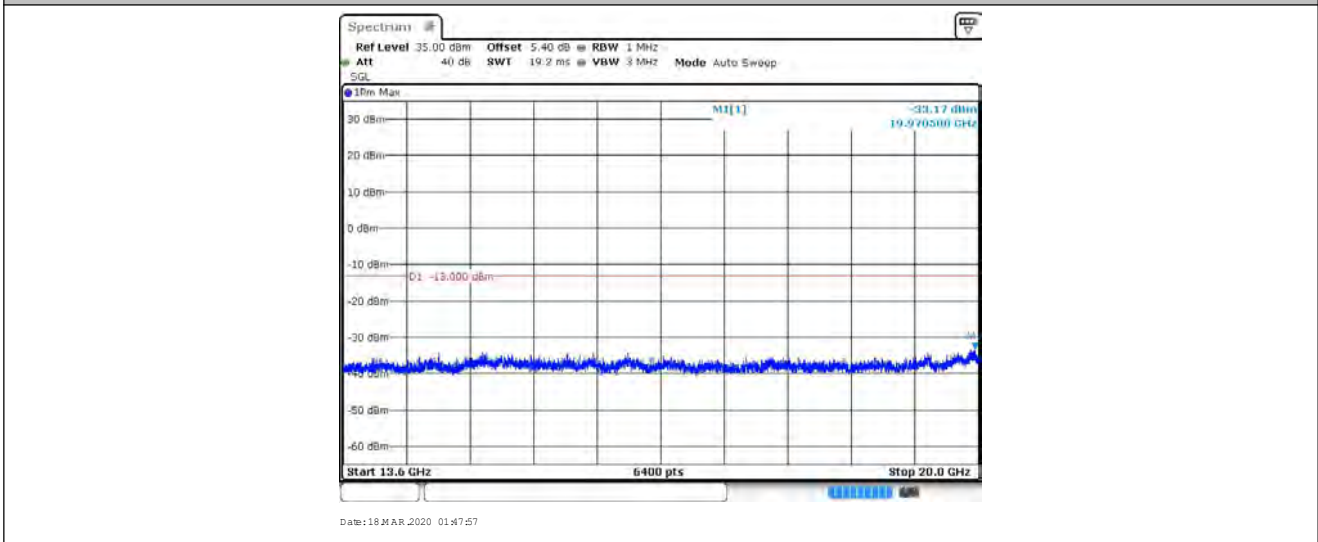
GSM1900_810



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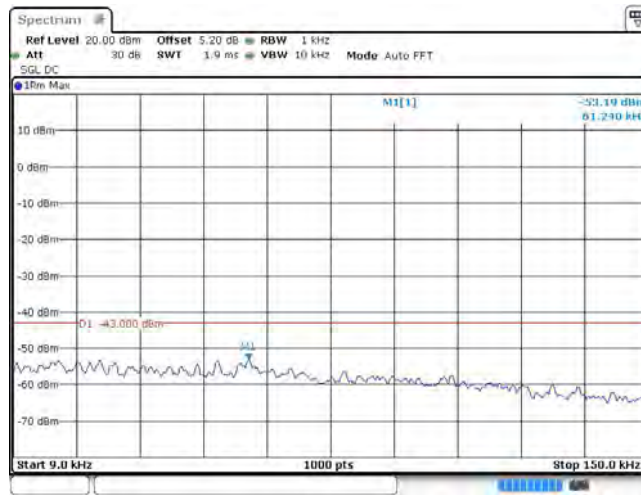
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EGPRS1900_512

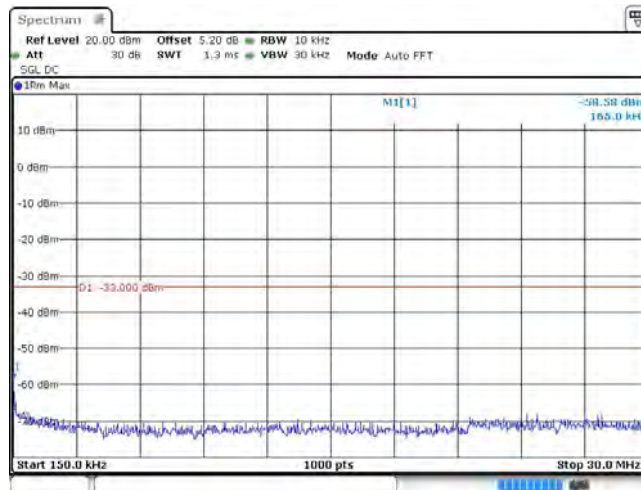


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Date: 18 MAR 2020 06:16:28

EGPRS1900_512



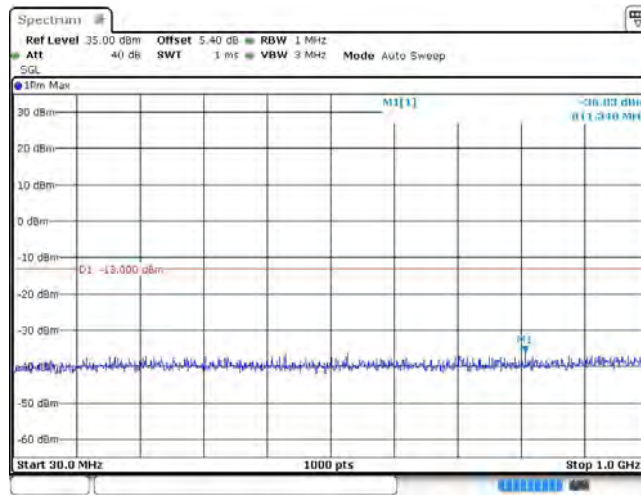
Date: 18 MAR 2020 06:16:40

EGPRS1900_512



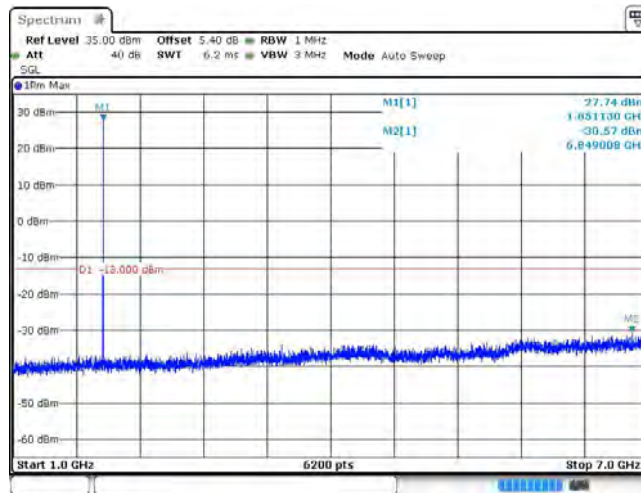
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 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
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Date: 18 MAR 2020 06:16:59

EGPRS1900_512

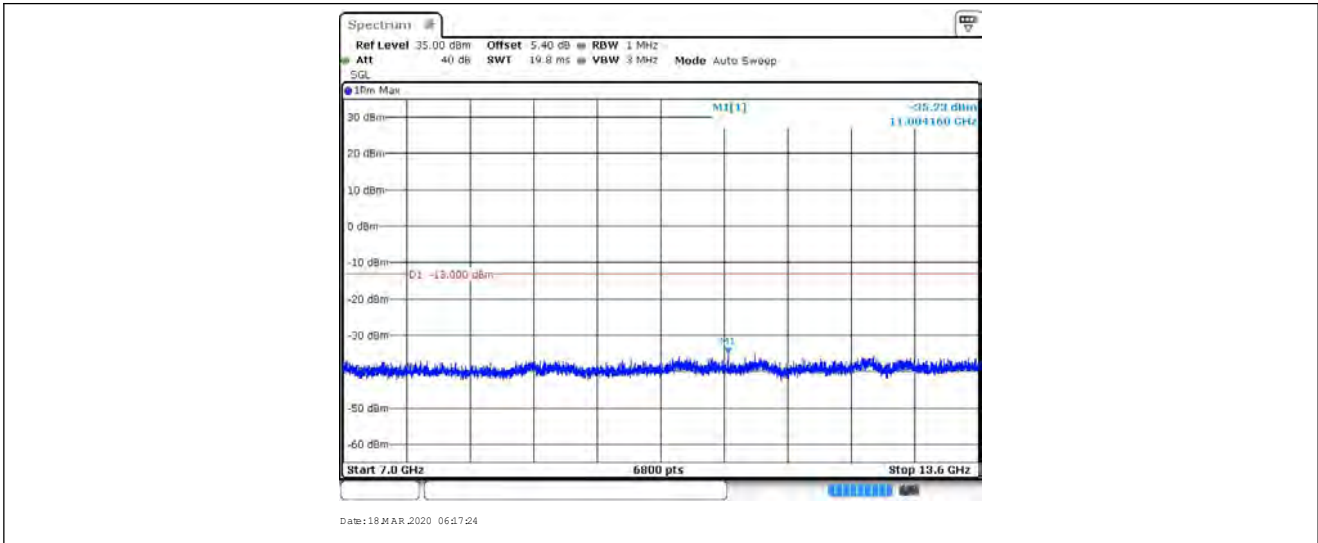


Date: 18 MAR 2020 06:17:12

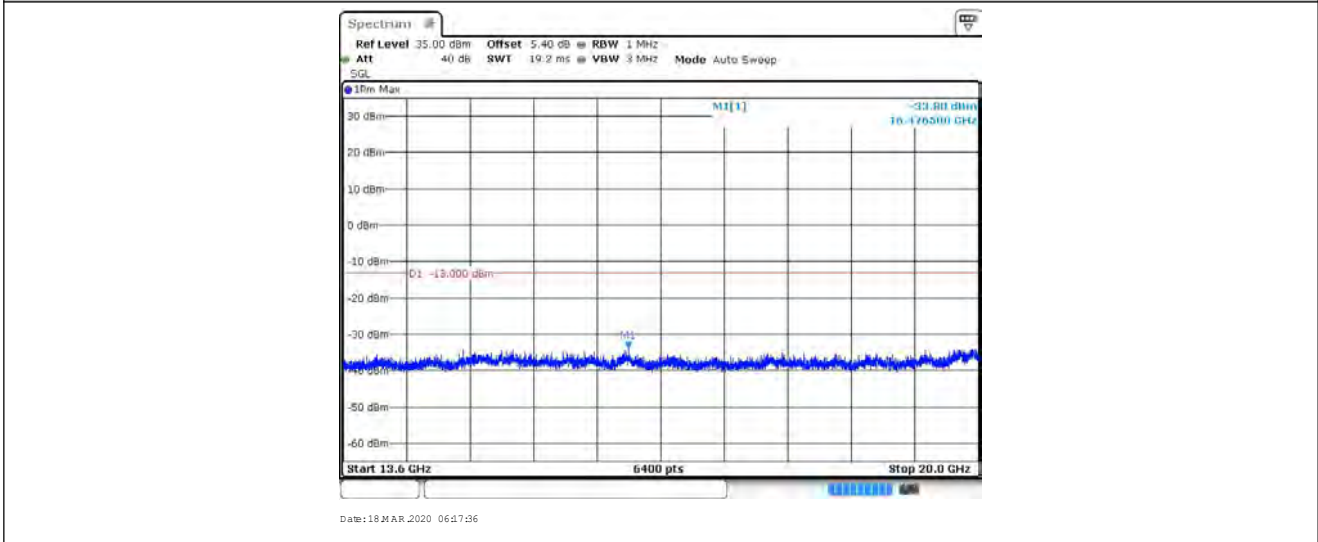
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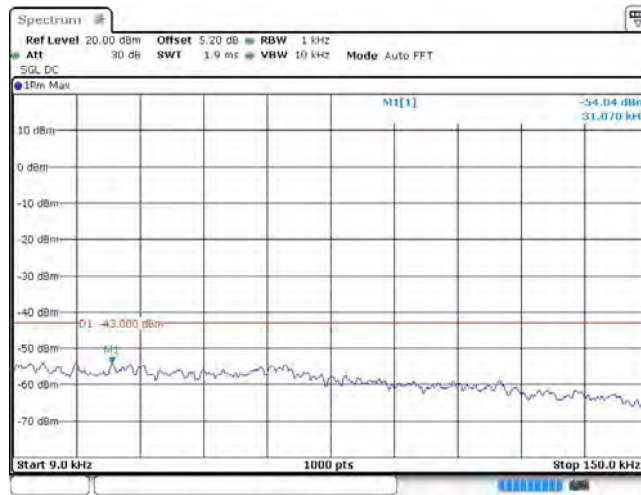
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EGPRS1900_661



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Date: 18 MAR 2020 06:17:54

EGPRS1900_661

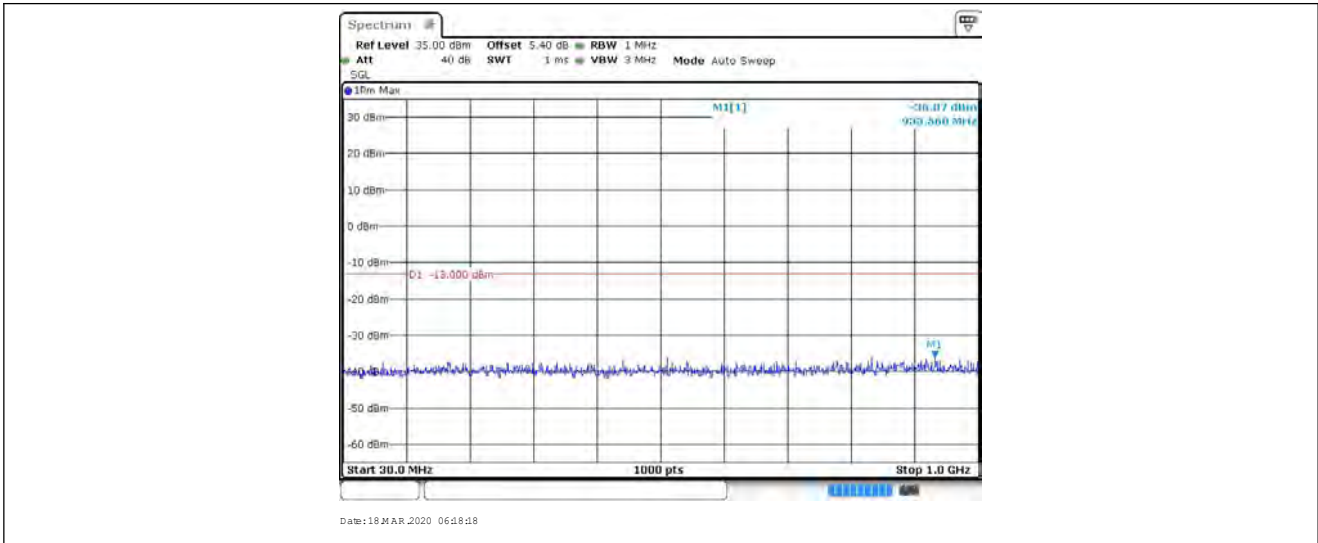


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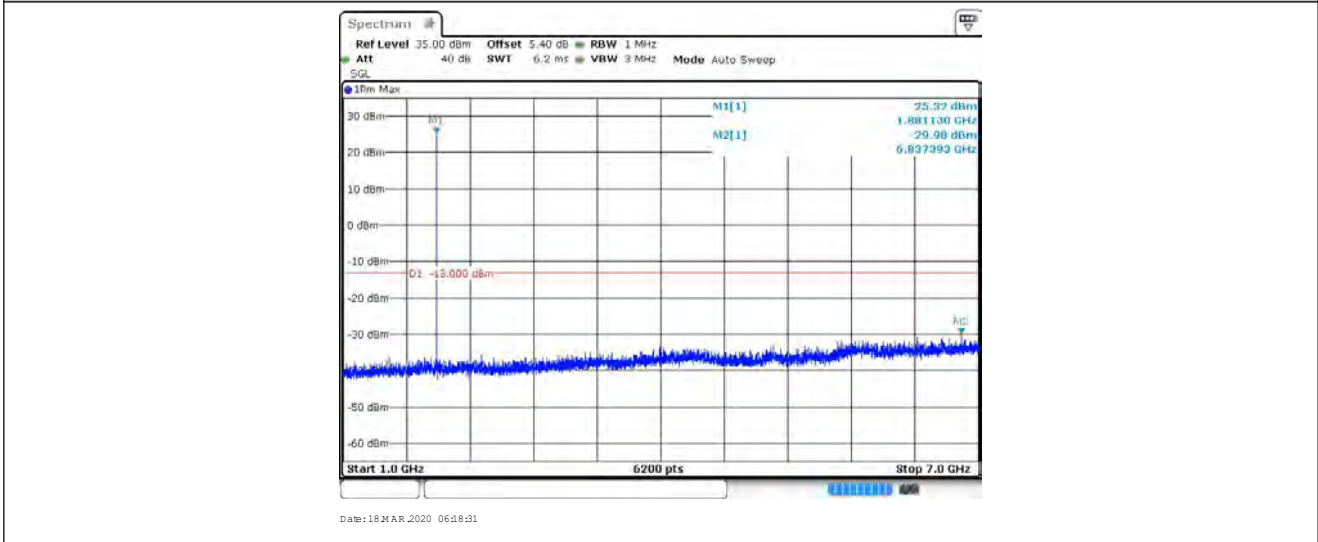
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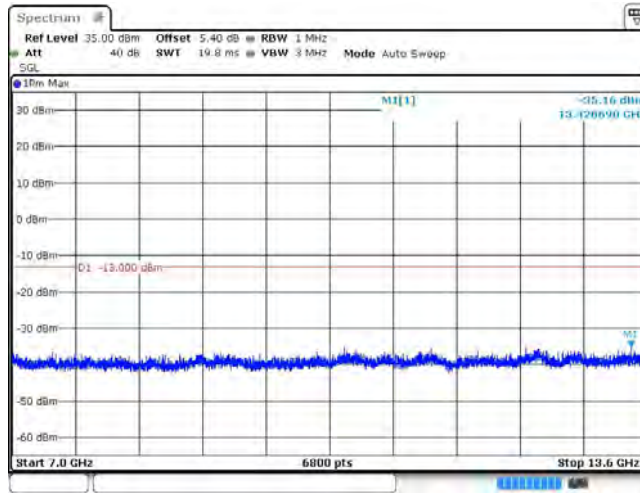
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EGPRS1900_661

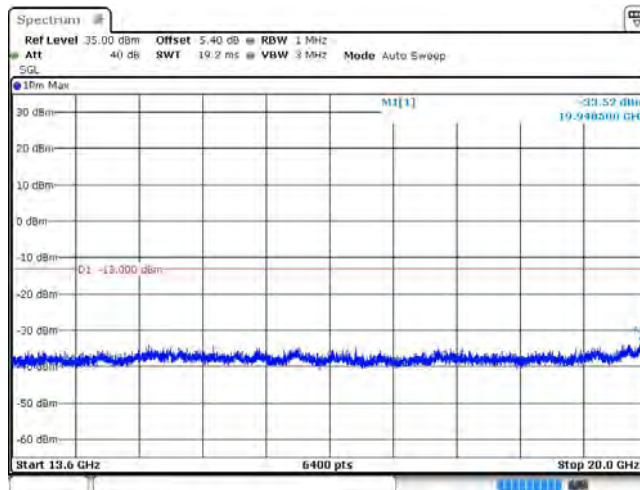


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Date: 18 MAR 2020 06:28:43

EGPRS1900_661

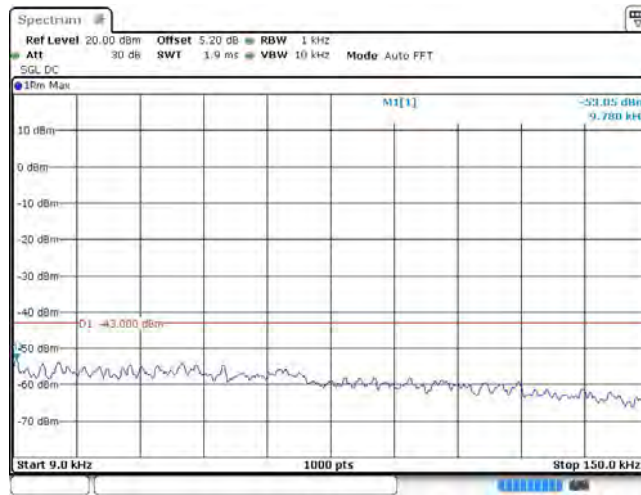


Date: 18 MAR 2020 06:28:55

EGPRS1900_810

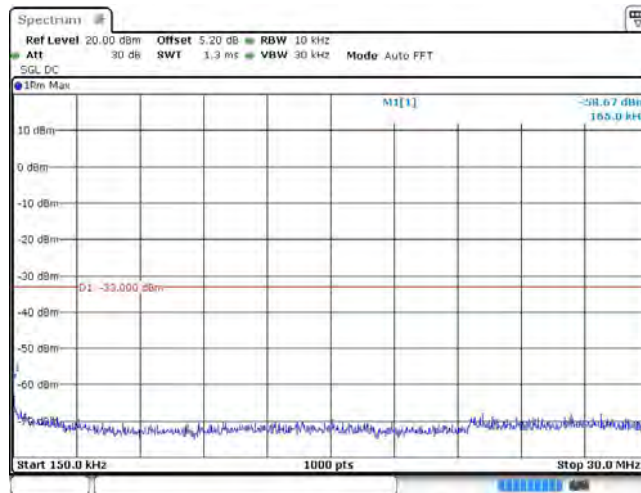


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Date: 18 MAR 2020 06:19:13

EGPRS1900_810

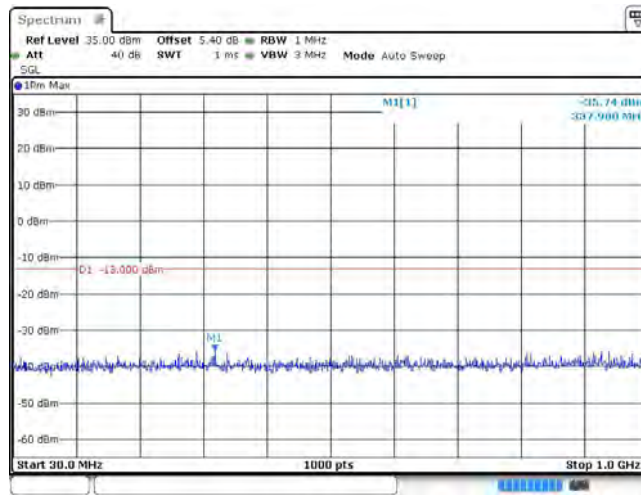


Date: 18 MAR 2020 06:19:25

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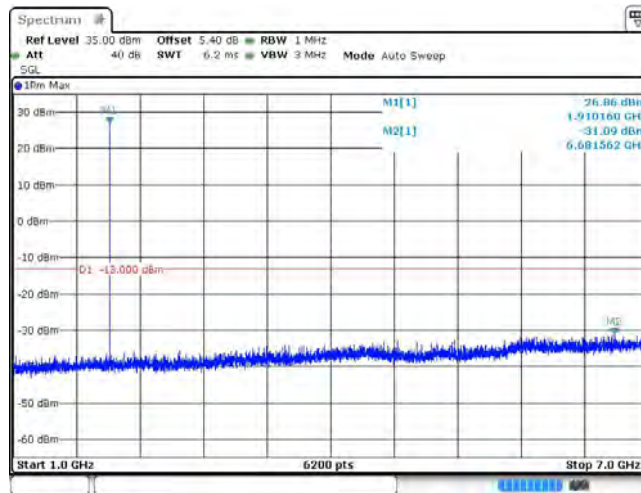


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Date: 18 MAR 2020 06:19:37

EGPRS1900_810

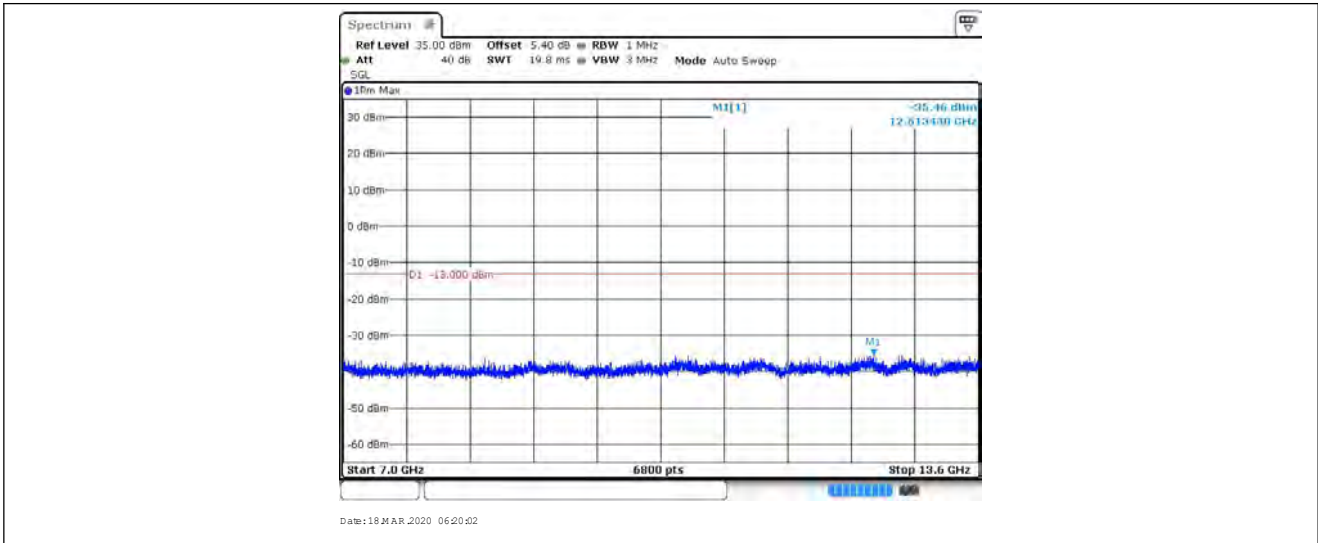


Date: 18 MAR 2020 06:19:50

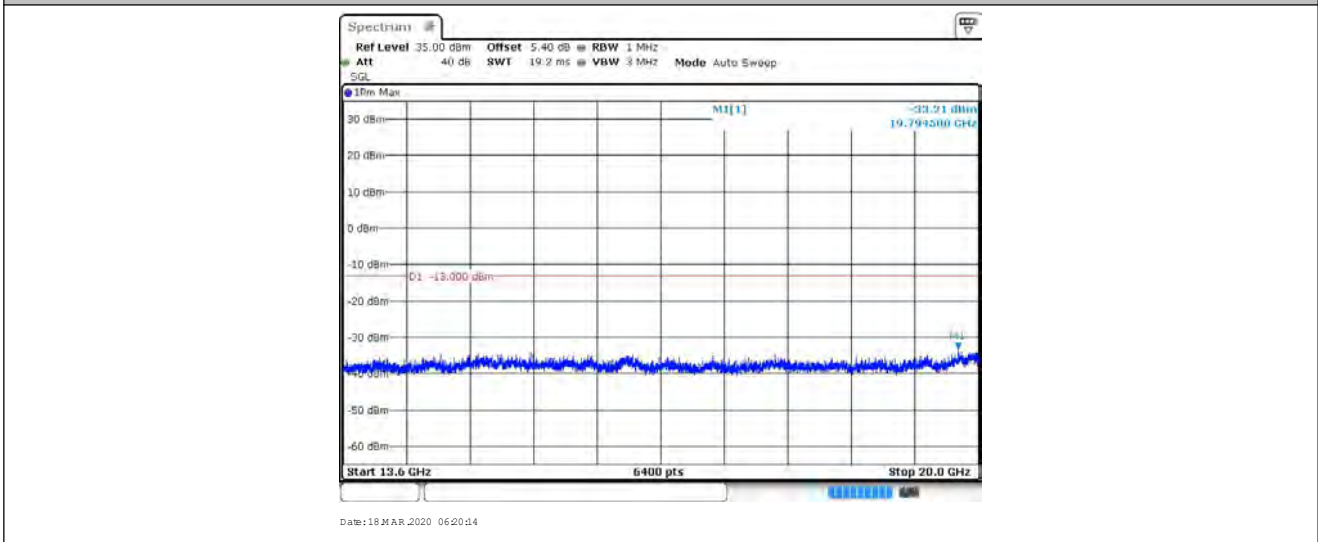
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7. Field Strength of Spurious Radiation

7.1. Test Band = GSM 1900 (Down Ant)

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
66.6678	-68.85	-13.00	55.85	Vertical
114.8792	-63.96	-13.00	50.96	Vertical
377.4229	-67.80	-13.00	54.80	Vertical
2991.9984	-38.08	-13.00	25.08	Vertical
3700.5234	-52.89	-13.00	39.89	Vertical
17995.4999	-40.58	-13.00	27.58	Vertical
40.0400	-64.00	-13.00	51.00	Horizontal
247.0484	-67.80	-13.00	54.80	Horizontal
627.8409	-63.08	-13.00	50.08	Horizontal
2698.7397	-36.38	-13.00	23.38	Horizontal
3700.5234	-52.81	-13.00	39.81	Horizontal
16365.4455	-44.11	-13.00	31.11	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.0972	-70.16	-13.00	57.16	Vertical
112.0176	-63.53	-13.00	50.53	Vertical
610.7680	-62.64	-13.00	49.64	Vertical
2702.3405	-37.60	-13.00	24.60	Vertical
3760.0253	-52.92	-13.00	39.92	Vertical
17997.9999	-40.25	-13.00	27.25	Vertical
40.2340	-64.05	-13.00	51.05	Horizontal
242.1981	-67.60	-13.00	54.60	Horizontal
577.3014	-63.10	-13.00	50.10	Horizontal
2697.9396	-36.30	-13.00	23.30	Horizontal
3760.0253	-49.45	-13.00	36.45	Horizontal
16389.4463	-43.99	-13.00	30.99	Horizontal

7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
50.0315	-71.41	-13.00	58.41	Vertical
116.2373	-64.38	-13.00	51.38	Vertical
439.7485	-67.11	-13.00	54.11	Vertical
2718.3437	-37.46	-13.00	24.46	Vertical

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3819.5273	-56.24	-13.00	43.24	Vertical
17995.9999	-40.15	-13.00	27.15	Vertical
45.8603	-63.97	-13.00	50.97	Horizontal
237.0084	-66.79	-13.00	53.79	Horizontal
572.3541	-64.93	-13.00	51.93	Horizontal
2702.7405	-36.29	-13.00	23.29	Horizontal
3819.5273	-58.71	-13.00	45.71	Horizontal
16395.4465	-43.88	-13.00	30.88	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
114.3942	-64.03	-13.00	51.03	Vertical
424.9552	-66.72	-13.00	53.72	Vertical
1648.5297	-40.69	-13.00	27.69	Vertical
2472.6945	-46.32	-13.00	33.32	Vertical
8038.6680	-55.37	-13.00	42.37	Vertical
17999.5000	-40.10	-13.00	27.10	Vertical
44.2597	-63.24	-13.00	50.24	Horizontal
241.7131	-66.55	-13.00	53.55	Horizontal
1648.1296	-41.06	-13.00	28.06	Horizontal
2472.6945	-44.61	-13.00	31.61	Horizontal
7474.1491	-55.62	-13.00	42.62	Horizontal
16397.4466	-43.48	-13.00	30.48	Horizontal

7.2.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.7565	-63.07	-13.00	50.07	Vertical
290.3125	-67.09	-13.00	54.09	Vertical
1673.3347	-46.82	-13.00	33.82	Vertical
2509.9020	-44.30	-13.00	31.30	Vertical
8822.6941	-54.46	-13.00	41.46	Vertical
17995.4999	-40.25	-13.00	27.25	Vertical
44.3082	-62.73	-13.00	49.73	Horizontal
247.4364	-66.70	-13.00	53.70	Horizontal
1673.3347	-37.63	-13.00	24.63	Horizontal
2509.9020	-48.42	-13.00	35.42	Horizontal
9308.7103	-52.10	-13.00	39.10	Horizontal
16397.4466	-44.04	-13.00	31.04	Horizontal



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7.2.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.8535	-64.44	-13.00	51.44	Vertical
282.6006	-67.65	-13.00	54.65	Vertical
1697.3395	-46.44	-13.00	33.44	Vertical
2546.7093	-44.95	-13.00	31.95	Vertical
7380.6460	-55.41	-13.00	42.41	Vertical
17994.4998	-40.41	-13.00	27.41	Vertical
45.0358	-62.04	-13.00	49.04	Horizontal
244.3807	-67.28	-13.00	54.28	Horizontal
1697.7395	-42.48	-13.00	29.48	Horizontal
2546.7093	-47.07	-13.00	34.07	Horizontal
7435.6479	-56.10	-13.00	43.10	Horizontal
16397.9466	-43.74	-13.00	30.74	Horizontal

7.3. Test Band = GSM 1900 (Up Ant)

7.3.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
54.5907	-71.91	-13.00	58.91	Vertical
110.4170	-64.22	-13.00	51.22	Vertical
281.8731	-68.53	-13.00	55.53	Vertical
1355.2711	-47.99	-13.00	34.99	Vertical
2735.5471	-38.08	-13.00	25.08	Vertical
17999.5000	-40.14	-13.00	27.14	Vertical
41.1071	-63.66	-13.00	50.66	Horizontal
240.2580	-67.51	-13.00	54.51	Horizontal
610.6710	-63.39	-13.00	50.39	Horizontal
2707.1414	-36.39	-13.00	23.39	Horizontal
7355.6452	-56.28	-13.00	43.28	Horizontal
16388.9463	-44.13	-13.00	31.13	Horizontal

7.3.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
54.1542	-70.75	-13.00	57.75	Vertical
110.6595	-64.86	-13.00	51.86	Vertical
384.4557	-66.49	-13.00	53.49	Vertical
2693.1386	-37.50	-13.00	24.50	Vertical
9851.7284	-52.09	-13.00	39.09	Vertical
17996.9999	-40.37	-13.00	27.37	Vertical
40.3795	-64.00	-13.00	51.00	Horizontal

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233.2252	-67.98	-13.00	54.98	Horizontal
737.0684	-62.36	-13.00	49.36	Horizontal
2702.7405	-36.25	-13.00	23.25	Horizontal
8025.6675	-55.85	-13.00	42.85	Horizontal
16389.9463	-43.69	-13.00	30.69	Horizontal

7.3.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
51.8746	-71.68	-13.00	58.68	Vertical
113.9092	-64.61	-13.00	51.61	Vertical
660.1920	-63.60	-13.00	50.60	Vertical
2699.5399	-37.53	-13.00	24.53	Vertical
9309.2103	-52.07	-13.00	39.07	Vertical
17996.4999	-40.32	-13.00	27.32	Vertical
45.3753	-64.12	-13.00	51.12	Horizontal
237.5419	-67.11	-13.00	54.11	Horizontal
723.2452	-62.59	-13.00	49.59	Horizontal
2700.3401	-36.25	-13.00	23.25	Horizontal
7463.6488	-56.38	-13.00	43.38	Horizontal
16400.4467	-43.84	-13.00	30.84	Horizontal

7.4. Test Band = GSM 850 (Up Ant)

7.4.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
54.0087	-71.40	-13.00	58.40	Vertical
112.9391	-64.10	-13.00	51.10	Vertical
448.6729	-66.47	-13.00	53.47	Vertical
1648.1296	-42.19	-13.00	29.19	Vertical
4120.5374	-58.95	-13.00	45.95	Vertical
17999.0000	-39.79	-13.00	26.79	Vertical
44.9872	-63.41	-13.00	50.41	Horizontal
248.5519	-67.21	-13.00	54.21	Horizontal
1648.1296	-37.60	-13.00	24.60	Horizontal
2472.6945	-50.79	-13.00	37.79	Horizontal
4121.0374	-56.36	-13.00	43.36	Horizontal
16383.9461	-43.96	-13.00	30.96	Horizontal

7.4.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
116.5768	-64.21	-13.00	51.21	Vertical
437.6629	-65.34	-13.00	52.34	Vertical

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1673.3347	-46.18	-13.00	33.18	Vertical
2509.5019	-53.18	-13.00	40.18	Vertical
7455.1485	-55.77	-13.00	42.77	Vertical
17991.9997	-39.92	-13.00	26.92	Vertical
43.1927	-63.39	-13.00	50.39	Horizontal
227.4534	-67.38	-13.00	54.38	Horizontal
1673.3347	-42.69	-13.00	29.69	Horizontal
2509.9020	-50.91	-13.00	37.91	Horizontal
7384.1461	-56.11	-13.00	43.11	Horizontal
16399.4466	-43.70	-13.00	30.70	Horizontal

7.4.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.4495	-72.12	-13.00	59.12	Vertical
114.5882	-63.83	-13.00	50.83	Vertical
1697.3395	-43.06	-13.00	30.06	Vertical
2546.7093	-50.11	-13.00	37.11	Vertical
7993.6665	-55.36	-13.00	42.36	Vertical
17995.4999	-39.94	-13.00	26.94	Vertical
42.6591	-63.71	-13.00	50.71	Horizontal
235.0198	-66.45	-13.00	53.45	Horizontal
1698.1396	-47.92	-13.00	34.92	Horizontal
2547.1094	-49.89	-13.00	36.89	Horizontal
7471.1490	-56.38	-13.00	43.38	Horizontal
16383.4461	-43.81	-13.00	30.81	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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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	0.81	0.000979	±2.5	PASS
GSM850	128	VN	TN	-1.74	-0.002115	±2.5	PASS
GSM850	128	VH	TN	-2.55	-0.003095	±2.5	PASS
GSM850	190	VL	TN	0.90	0.001081	±2.5	PASS
GSM850	190	VN	TN	0.58	0.000695	±2.5	PASS
GSM850	190	VH	TN	1.97	0.002354	±2.5	PASS
GSM850	251	VL	TN	-1.26	-0.001483	±2.5	PASS
GSM850	251	VN	TN	-1.45	-0.001712	±2.5	PASS
GSM850	251	VH	TN	1.65	0.001940	±2.5	PASS
EGPRS850	128	VL	TN	-1.42	-0.001724	±2.5	PASS
EGPRS850	128	VN	TN	5.13	0.006228	±2.5	PASS
EGPRS850	128	VH	TN	2.91	0.003526	±2.5	PASS
EGPRS850	190	VL	TN	1.74	0.002084	±2.5	PASS
EGPRS850	190	VN	TN	5.13	0.006136	±2.5	PASS
EGPRS850	190	VH	TN	-1.00	-0.001196	±2.5	PASS
EGPRS850	251	VL	TN	5.81	0.006847	±2.5	PASS
EGPRS850	251	VN	TN	0.94	0.001103	±2.5	PASS
EGPRS850	251	VH	TN	0.19	0.000228	±2.5	PASS
GSM1900	512	VL	TN	8.17	0.004415	±2.5	PASS
GSM1900	512	VN	TN	7.26	0.003926	±2.5	PASS
GSM1900	512	VH	TN	13.79	0.007451	±2.5	PASS
GSM1900	661	VL	TN	8.56	0.004551	±2.5	PASS
GSM1900	661	VN	TN	13.04	0.006938	±2.5	PASS
GSM1900	661	VH	TN	8.81	0.004688	±2.5	PASS
GSM1900	810	VL	TN	7.30	0.003821	±2.5	PASS
GSM1900	810	VN	TN	7.04	0.003685	±2.5	PASS
GSM1900	810	VH	TN	5.46	0.002857	±2.5	PASS
EGPRS1900	512	VL	TN	0.58	0.000314	±2.5	PASS
EGPRS1900	512	VN	TN	1.55	0.000838	±2.5	PASS
EGPRS1900	512	VH	TN	13.33	0.007207	±2.5	PASS
EGPRS1900	661	VL	TN	8.62	0.004585	±2.5	PASS
EGPRS1900	661	VN	TN	10.98	0.005839	±2.5	PASS
EGPRS1900	661	VH	TN	6.52	0.003469	±2.5	PASS
EGPRS1900	810	VL	TN	11.59	0.006069	±2.5	PASS
EGPRS1900	810	VN	TN	8.56	0.004480	±2.5	PASS
EGPRS1900	810	VH	TN	7.75	0.004057	±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	4.39	0.005327	±2.5	PASS
GSM850	128	VN	-20	2.78	0.003369	±2.5	PASS
GSM850	128	VN	-10	-0.68	-0.000823	±2.5	PASS
GSM850	128	VN	0	-1.61	-0.001959	±2.5	PASS
GSM850	128	VN	10	-5.17	-0.006268	±2.5	PASS
GSM850	128	VN	20	-2.68	-0.003251	±2.5	PASS
GSM850	128	VN	30	-5.20	-0.006307	±2.5	PASS
GSM850	128	VN	40	-2.29	-0.002781	±2.5	PASS
GSM850	128	VN	50	-3.16	-0.003839	±2.5	PASS
GSM850	190	VN	-30	0.87	0.001042	±2.5	PASS
GSM850	190	VN	-20	2.20	0.002624	±2.5	PASS
GSM850	190	VN	-10	5.23	0.006252	±2.5	PASS
GSM850	190	VN	0	1.07	0.001274	±2.5	PASS
GSM850	190	VN	10	-1.68	-0.002007	±2.5	PASS
GSM850	190	VN	20	-2.39	-0.002856	±2.5	PASS
GSM850	190	VN	30	-1.23	-0.001466	±2.5	PASS
GSM850	190	VN	40	0.26	0.000309	±2.5	PASS
GSM850	190	VN	50	-2.39	-0.002856	±2.5	PASS
GSM850	251	VN	-30	0.58	0.000685	±2.5	PASS
GSM850	251	VN	-20	4.94	0.005820	±2.5	PASS
GSM850	251	VN	-10	1.87	0.002206	±2.5	PASS
GSM850	251	VN	0	-3.10	-0.003652	±2.5	PASS
GSM850	251	VN	10	-1.68	-0.001978	±2.5	PASS
GSM850	251	VN	20	2.29	0.002701	±2.5	PASS
GSM850	251	VN	30	-0.16	-0.000190	±2.5	PASS
GSM850	251	VN	40	-0.03	-0.000038	±2.5	PASS
GSM850	251	VN	50	-0.87	-0.001027	±2.5	PASS
EGPRS850	128	VN	-30	1.00	0.001214	±2.5	PASS
EGPRS850	128	VN	-20	3.39	0.004113	±2.5	PASS
EGPRS850	128	VN	-10	-0.71	-0.000862	±2.5	PASS
EGPRS850	128	VN	0	3.75	0.004544	±2.5	PASS
EGPRS850	128	VN	10	-1.32	-0.001606	±2.5	PASS
EGPRS850	128	VN	20	3.94	0.004779	±2.5	PASS
EGPRS850	128	VN	30	1.78	0.002154	±2.5	PASS
EGPRS850	128	VN	40	3.81	0.004622	±2.5	PASS
EGPRS850	128	VN	50	0.42	0.000509	±2.5	PASS
EGPRS850	190	VN	-30	1.16	0.001389	±2.5	PASS
EGPRS850	190	VN	-20	-1.61	-0.001930	±2.5	PASS
EGPRS850	190	VN	-10	1.58	0.001891	±2.5	PASS
EGPRS850	190	VN	0	-0.26	-0.000309	±2.5	PASS
EGPRS850	190	VN	10	3.10	0.003705	±2.5	PASS
EGPRS850	190	VN	20	0.58	0.000695	±2.5	PASS
EGPRS850	190	VN	30	3.07	0.003666	±2.5	PASS



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EGPRS850	190	VN	40	0.03	0.000039	±2.5	PASS
EGPRS850	190	VN	50	1.61	0.001930	±2.5	PASS
EGPRS850	251	VN	-30	0.68	0.000799	±2.5	PASS
EGPRS850	251	VN	-20	1.87	0.002206	±2.5	PASS
EGPRS850	251	VN	-10	1.26	0.001483	±2.5	PASS
EGPRS850	251	VN	0	0.16	0.000190	±2.5	PASS
EGPRS850	251	VN	10	-0.42	-0.000494	±2.5	PASS
EGPRS850	251	VN	20	-0.65	-0.000761	±2.5	PASS
EGPRS850	251	VN	30	0.65	0.000761	±2.5	PASS
EGPRS850	251	VN	40	-1.68	-0.001978	±2.5	PASS
EGPRS850	251	VN	50	3.13	0.003690	±2.5	PASS
GSM1900	512	VN	-30	8.59	0.004642	±2.5	PASS
GSM1900	512	VN	-20	9.91	0.005357	±2.5	PASS
GSM1900	512	VN	-10	12.82	0.006928	±2.5	PASS
GSM1900	512	VN	0	1.84	0.000995	±2.5	PASS
GSM1900	512	VN	10	0.19	0.000105	±2.5	PASS
GSM1900	512	VN	20	-1.36	-0.000733	±2.5	PASS
GSM1900	512	VN	30	-2.49	-0.001344	±2.5	PASS
GSM1900	512	VN	40	0.65	0.000349	±2.5	PASS
GSM1900	512	VN	50	1.45	0.000785	±2.5	PASS
GSM1900	661	VN	-30	11.36	0.006045	±2.5	PASS
GSM1900	661	VN	-20	11.24	0.005976	±2.5	PASS
GSM1900	661	VN	-10	6.97	0.003709	±2.5	PASS
GSM1900	661	VN	0	3.55	0.001889	±2.5	PASS
GSM1900	661	VN	10	3.58	0.001906	±2.5	PASS
GSM1900	661	VN	20	2.74	0.001460	±2.5	PASS
GSM1900	661	VN	30	0.45	0.000240	±2.5	PASS
GSM1900	661	VN	40	-1.81	-0.000962	±2.5	PASS
GSM1900	661	VN	50	1.78	0.000945	±2.5	PASS
GSM1900	810	VN	-30	7.04	0.003685	±2.5	PASS
GSM1900	810	VN	-20	7.59	0.003973	±2.5	PASS
GSM1900	810	VN	-10	4.94	0.002587	±2.5	PASS
GSM1900	810	VN	0	9.10	0.004767	±2.5	PASS
GSM1900	810	VN	10	0.06	0.000034	±2.5	PASS
GSM1900	810	VN	20	-0.39	-0.000203	±2.5	PASS
GSM1900	810	VN	30	-4.07	-0.002130	±2.5	PASS
GSM1900	810	VN	40	1.90	0.000997	±2.5	PASS
GSM1900	810	VN	50	1.45	0.000761	±2.5	PASS
EGPRS1900	512	VN	-30	2.26	0.001221	±2.5	PASS
EGPRS1900	512	VN	-20	4.46	0.002408	±2.5	PASS
EGPRS1900	512	VN	-10	12.88	0.006963	±2.5	PASS
EGPRS1900	512	VN	0	8.39	0.004537	±2.5	PASS
EGPRS1900	512	VN	10	4.04	0.002181	±2.5	PASS
EGPRS1900	512	VN	20	8.59	0.004642	±2.5	PASS
EGPRS1900	512	VN	30	2.55	0.001379	±2.5	PASS
EGPRS1900	512	VN	40	1.65	0.000890	±2.5	PASS
EGPRS1900	512	VN	50	-3.97	-0.002146	±2.5	PASS



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EGPRS1900	661	VN	-30	3.94	0.002095	±2.5	PASS
EGPRS1900	661	VN	-20	8.04	0.004276	±2.5	PASS
EGPRS1900	661	VN	-10	4.46	0.002370	±2.5	PASS
EGPRS1900	661	VN	0	10.91	0.005805	±2.5	PASS
EGPRS1900	661	VN	10	9.46	0.005032	±2.5	PASS
EGPRS1900	661	VN	20	4.71	0.002507	±2.5	PASS
EGPRS1900	661	VN	30	-2.16	-0.001151	±2.5	PASS
EGPRS1900	661	VN	40	-0.81	-0.000429	±2.5	PASS
EGPRS1900	661	VN	50	5.00	0.002662	±2.5	PASS
EGPRS1900	810	VN	-30	5.36	0.002806	±2.5	PASS
EGPRS1900	810	VN	-20	5.07	0.002654	±2.5	PASS
EGPRS1900	810	VN	-10	5.26	0.002756	±2.5	PASS
EGPRS1900	810	VN	0	8.65	0.004531	±2.5	PASS
EGPRS1900	810	VN	10	4.62	0.002417	±2.5	PASS
EGPRS1900	810	VN	20	4.84	0.002536	±2.5	PASS
EGPRS1900	810	VN	30	2.10	0.001099	±2.5	PASS
EGPRS1900	810	VN	40	3.20	0.001674	±2.5	PASS
EGPRS1900	810	VN	50	4.88	0.002553	±2.5	PASS

The End



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