



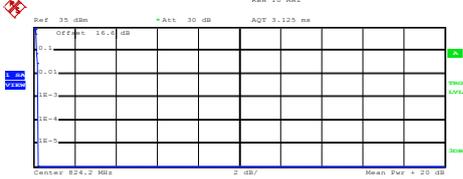
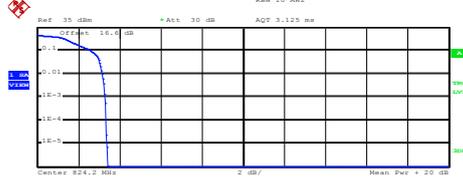
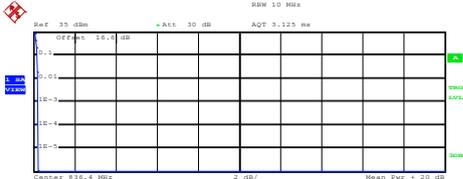
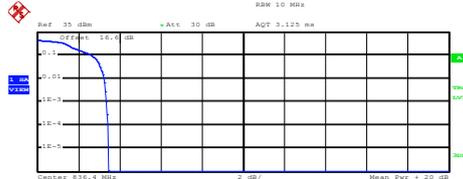
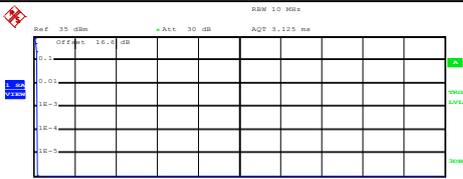
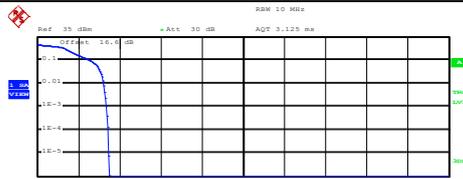
# A1. GSM

## Peak-to-Average Ratio

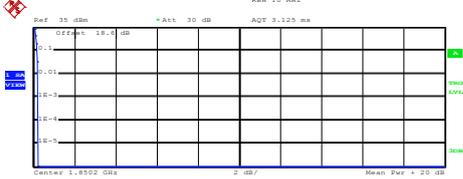
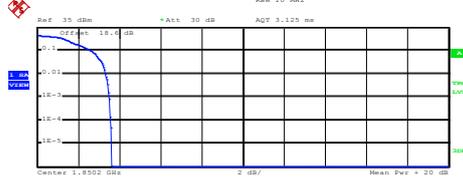
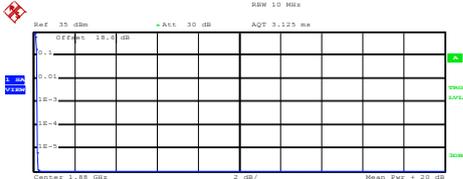
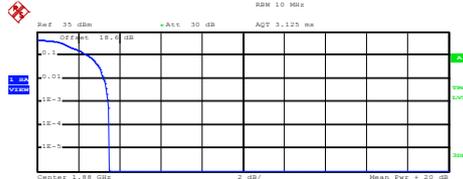
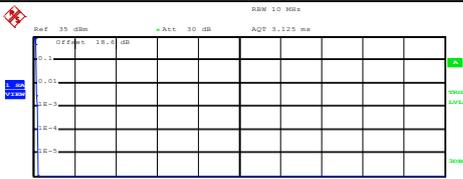
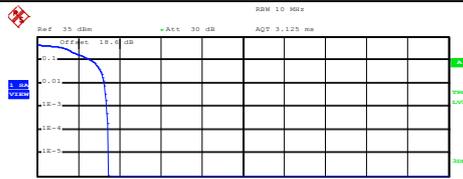
Mode	GSM850		Limit: 13dB
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.24	3.32	PASS
Middle CH	0.24	3.36	
Highest CH	0.20	3.36	

Mode	GSM1900		Limit: 13dB
Mod.	GPRS class 8	EDGE class 8	Result
Lowest CH	0.24	3.52	PASS
Middle CH	0.20	3.44	
Highest CH	0.20	3.40	



GSM850 (GSM)	GSM850 (EDGE class 8)																
<p align="center"><b>Lowest Channel</b></p>  <p>Center 824.2 MHz    2 dB/    Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 33.26 dBm Peak 33.49 dBm Crest 0.23 dB</p> <table border="1"> <tr><td>10 %</td><td>0.16 dB</td></tr> <tr><td>1 %</td><td>0.24 dB</td></tr> <tr><td>.1 %</td><td>0.24 dB</td></tr> <tr><td>.01 %</td><td>0.24 dB</td></tr> </table> <p>Date: 3.NOV.2015 11:04:20</p>	10 %	0.16 dB	1 %	0.24 dB	.1 %	0.24 dB	.01 %	0.24 dB	<p align="center"><b>Lowest Channel</b></p>  <p>Center 824.2 MHz    2 dB/    Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 27.32 dBm Peak 30.73 dBm Crest 3.41 dB</p> <table border="1"> <tr><td>10 %</td><td>2.60 dB</td></tr> <tr><td>1 %</td><td>3.16 dB</td></tr> <tr><td>.1 %</td><td>3.32 dB</td></tr> <tr><td>.01 %</td><td>3.36 dB</td></tr> </table> <p>Date: 3.NOV.2015 11:21:39</p>	10 %	2.60 dB	1 %	3.16 dB	.1 %	3.32 dB	.01 %	3.36 dB
10 %	0.16 dB																
1 %	0.24 dB																
.1 %	0.24 dB																
.01 %	0.24 dB																
10 %	2.60 dB																
1 %	3.16 dB																
.1 %	3.32 dB																
.01 %	3.36 dB																
<p align="center"><b>Middle Channel</b></p>  <p>Center 836.4 MHz    2 dB/    Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 33.35 dBm Peak 33.56 dBm Crest 0.20 dB</p> <table border="1"> <tr><td>10 %</td><td>0.20 dB</td></tr> <tr><td>1 %</td><td>0.24 dB</td></tr> <tr><td>.1 %</td><td>0.24 dB</td></tr> <tr><td>.01 %</td><td>0.24 dB</td></tr> </table> <p>Date: 3.NOV.2015 11:04:42</p>	10 %	0.20 dB	1 %	0.24 dB	.1 %	0.24 dB	.01 %	0.24 dB	<p align="center"><b>Middle Channel</b></p>  <p>Center 836.4 MHz    2 dB/    Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 26.77 dBm Peak 30.24 dBm Crest 3.47 dB</p> <table border="1"> <tr><td>10 %</td><td>2.64 dB</td></tr> <tr><td>1 %</td><td>3.24 dB</td></tr> <tr><td>.1 %</td><td>3.36 dB</td></tr> <tr><td>.01 %</td><td>3.44 dB</td></tr> </table> <p>Date: 3.NOV.2015 11:22:00</p>	10 %	2.64 dB	1 %	3.24 dB	.1 %	3.36 dB	.01 %	3.44 dB
10 %	0.20 dB																
1 %	0.24 dB																
.1 %	0.24 dB																
.01 %	0.24 dB																
10 %	2.64 dB																
1 %	3.24 dB																
.1 %	3.36 dB																
.01 %	3.44 dB																
<p align="center"><b>Highest Channel</b></p>  <p>Center 848.8 MHz    2 dB/    Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 33.58 dBm Peak 33.77 dBm Crest 0.19 dB</p> <table border="1"> <tr><td>10 %</td><td>0.20 dB</td></tr> <tr><td>1 %</td><td>0.20 dB</td></tr> <tr><td>.1 %</td><td>0.20 dB</td></tr> <tr><td>.01 %</td><td>0.20 dB</td></tr> </table> <p>Date: 3.NOV.2015 11:05:00</p>	10 %	0.20 dB	1 %	0.20 dB	.1 %	0.20 dB	.01 %	0.20 dB	<p align="center"><b>Highest Channel</b></p>  <p>Center 848.8 MHz    2 dB/    Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 26.48 dBm Peak 29.96 dBm Crest 3.48 dB</p> <table border="1"> <tr><td>10 %</td><td>2.60 dB</td></tr> <tr><td>1 %</td><td>3.24 dB</td></tr> <tr><td>.1 %</td><td>3.36 dB</td></tr> <tr><td>.01 %</td><td>3.44 dB</td></tr> </table> <p>Date: 3.NOV.2015 11:22:23</p>	10 %	2.60 dB	1 %	3.24 dB	.1 %	3.36 dB	.01 %	3.44 dB
10 %	0.20 dB																
1 %	0.20 dB																
.1 %	0.20 dB																
.01 %	0.20 dB																
10 %	2.60 dB																
1 %	3.24 dB																
.1 %	3.36 dB																
.01 %	3.44 dB																



GSM1900 (GPRS class 8)	GSM1900 (EDGE class 8)																
<p align="center"><b>Lowest Channel</b></p>  <p>Center 1.8502 GHz      2 dB/      Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 30.88 dBm Peak 31.09 dBm Crest 0.21 dB</p> <table border="1"> <tr><td>10 %</td><td>0.20 dB</td></tr> <tr><td>1 %</td><td>0.24 dB</td></tr> <tr><td>.1 %</td><td>0.24 dB</td></tr> <tr><td>.01 %</td><td>0.24 dB</td></tr> </table> <p>Date: 3.NOV.2015 11:46:52</p>	10 %	0.20 dB	1 %	0.24 dB	.1 %	0.24 dB	.01 %	0.24 dB	<p align="center"><b>Lowest Channel</b></p>  <p>Center 1.8502 GHz      2 dB/      Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 26.49 dBm Peak 30.10 dBm Crest 3.61 dB</p> <table border="1"> <tr><td>10 %</td><td>2.64 dB</td></tr> <tr><td>1 %</td><td>3.32 dB</td></tr> <tr><td>.1 %</td><td>3.52 dB</td></tr> <tr><td>.01 %</td><td>3.56 dB</td></tr> </table> <p>Date: 3.NOV.2015 13:07:25</p>	10 %	2.64 dB	1 %	3.32 dB	.1 %	3.52 dB	.01 %	3.56 dB
10 %	0.20 dB																
1 %	0.24 dB																
.1 %	0.24 dB																
.01 %	0.24 dB																
10 %	2.64 dB																
1 %	3.32 dB																
.1 %	3.52 dB																
.01 %	3.56 dB																
<p align="center"><b>Middle Channel</b></p>  <p>Center 1.85 GHz      2 dB/      Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 30.49 dBm Peak 30.73 dBm Crest 0.25 dB</p> <table border="1"> <tr><td>10 %</td><td>0.16 dB</td></tr> <tr><td>1 %</td><td>0.20 dB</td></tr> <tr><td>.1 %</td><td>0.20 dB</td></tr> <tr><td>.01 %</td><td>0.20 dB</td></tr> </table> <p>Date: 3.NOV.2015 11:47:20</p>	10 %	0.16 dB	1 %	0.20 dB	.1 %	0.20 dB	.01 %	0.20 dB	<p align="center"><b>Middle Channel</b></p>  <p>Center 1.85 GHz      2 dB/      Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 25.46 dBm Peak 28.97 dBm Crest 3.51 dB</p> <table border="1"> <tr><td>10 %</td><td>2.48 dB</td></tr> <tr><td>1 %</td><td>3.24 dB</td></tr> <tr><td>.1 %</td><td>3.44 dB</td></tr> <tr><td>.01 %</td><td>3.52 dB</td></tr> </table> <p>Date: 3.NOV.2015 13:07:42</p>	10 %	2.48 dB	1 %	3.24 dB	.1 %	3.44 dB	.01 %	3.52 dB
10 %	0.16 dB																
1 %	0.20 dB																
.1 %	0.20 dB																
.01 %	0.20 dB																
10 %	2.48 dB																
1 %	3.24 dB																
.1 %	3.44 dB																
.01 %	3.52 dB																
<p align="center"><b>Highest Channel</b></p>  <p>Center 1.9098 GHz      2 dB/      Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 30.37 dBm Peak 30.59 dBm Crest 0.23 dB</p> <table border="1"> <tr><td>10 %</td><td>0.16 dB</td></tr> <tr><td>1 %</td><td>0.16 dB</td></tr> <tr><td>.1 %</td><td>0.20 dB</td></tr> <tr><td>.01 %</td><td>0.24 dB</td></tr> </table> <p>Date: 3.NOV.2015 11:47:36</p>	10 %	0.16 dB	1 %	0.16 dB	.1 %	0.20 dB	.01 %	0.24 dB	<p align="center"><b>Highest Channel</b></p>  <p>Center 1.9098 GHz      2 dB/      Mean Pwr + 20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 25.94 dBm Peak 29.39 dBm Crest 3.46 dB</p> <table border="1"> <tr><td>10 %</td><td>2.64 dB</td></tr> <tr><td>1 %</td><td>3.28 dB</td></tr> <tr><td>.1 %</td><td>3.40 dB</td></tr> <tr><td>.01 %</td><td>3.44 dB</td></tr> </table> <p>Date: 3.NOV.2015 13:08:03</p>	10 %	2.64 dB	1 %	3.28 dB	.1 %	3.40 dB	.01 %	3.44 dB
10 %	0.16 dB																
1 %	0.16 dB																
.1 %	0.20 dB																
.01 %	0.24 dB																
10 %	2.64 dB																
1 %	3.28 dB																
.1 %	3.40 dB																
.01 %	3.44 dB																



**26dB Bandwidth**

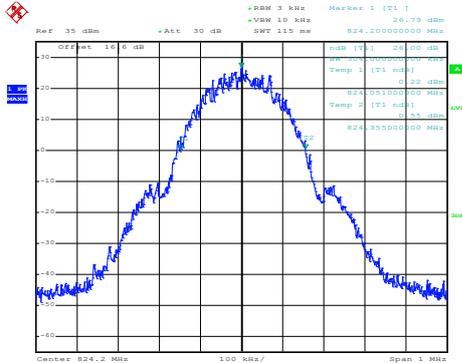
Mode	GSM850	
Mod.	GSM	EDGE class 8
Lowest CH	0.304	0.310
Middle CH	0.311	0.308
Highest CH	0.311	0.303

Mode	GSM1900	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.315	0.292
Middle CH	0.317	0.307
Highest CH	0.313	0.299



GSM850 (GSM)

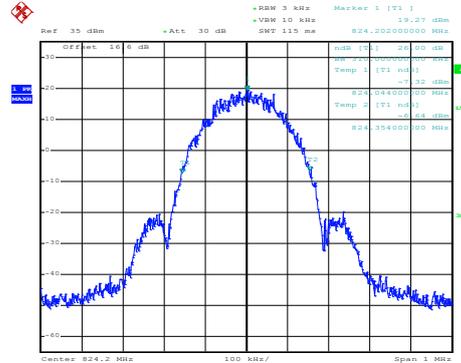
Lowest Channel



Date: 3.NOV.2015 10:45:47

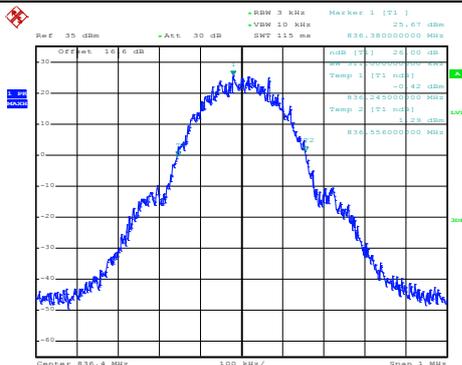
GSM850 (EDGE class 8)

Lowest Channel



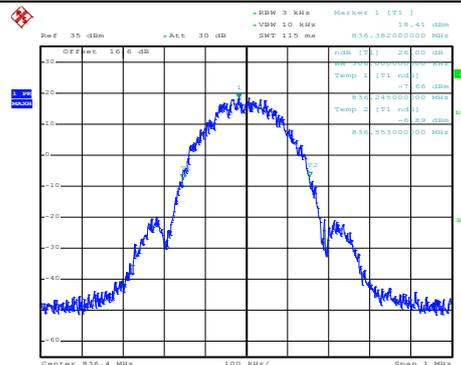
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Middle Channel



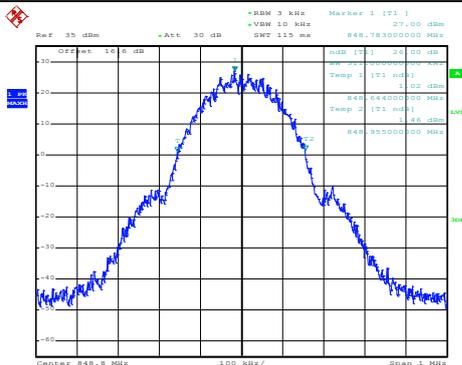
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Middle Channel



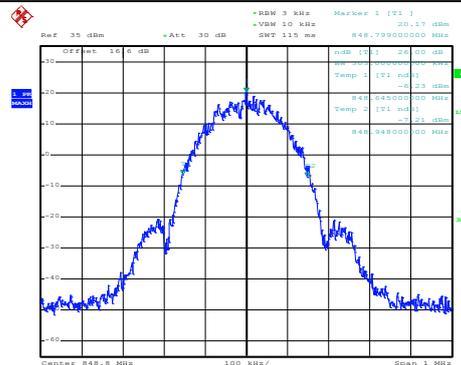
Date: 3.NOV.2015 11:10:36

Highest Channel

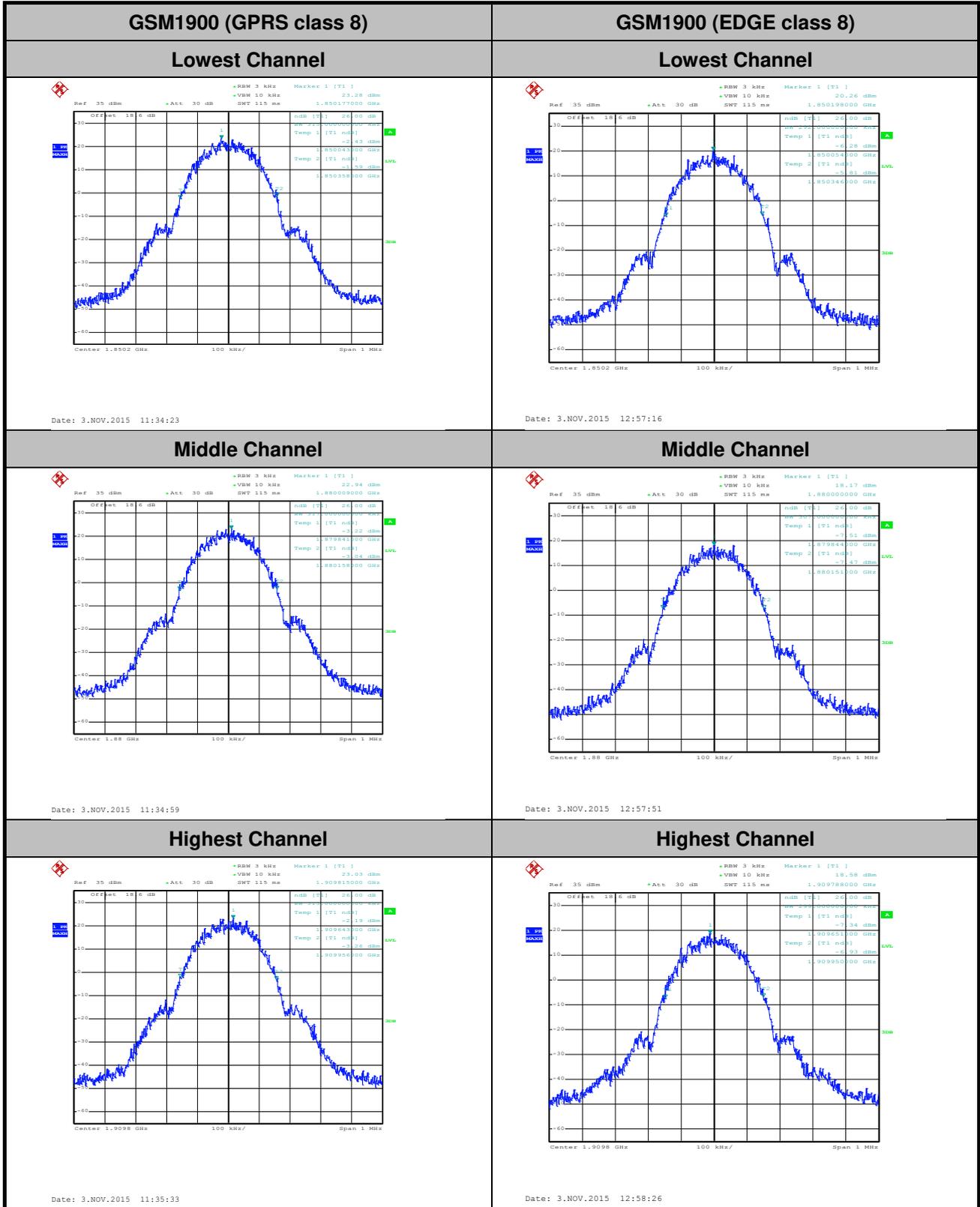


Date: 3.NOV.2015 10:47:05

Highest Channel



Date: 3.NOV.2015 11:11:28





### Occupied Bandwidth

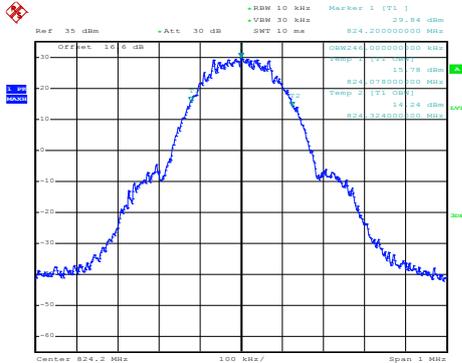
Mode	GSM850	
Mod.	GSM	EDGE class 8
Lowest CH	0.246	0.247
Middle CH	0.246	0.248
Highest CH	0.243	0.247

Mode	GSM1900	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.248	0.247
Middle CH	0.243	0.250
Highest CH	0.244	0.249



GSM850 (GSM)

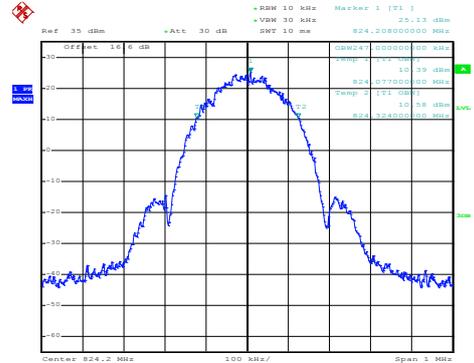
Lowest Channel



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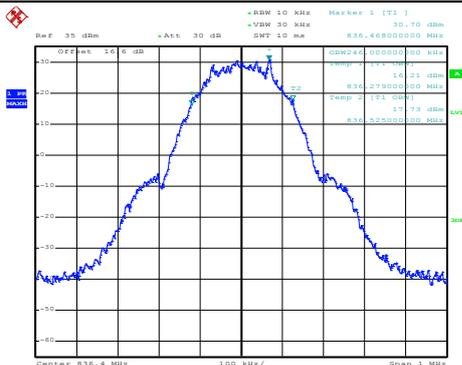
GSM850 (EDGE class 8)

Lowest Channel



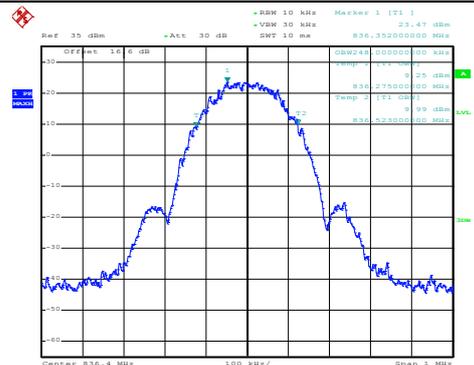
Date: 3.NOV.2015 11:12:25

Middle Channel



Date: 3.NOV.2015 10:53:24

Middle Channel



Date: 3.NOV.2015 11:13:02

Highest Channel



Date: 3.NOV.2015 10:54:00

Highest Channel

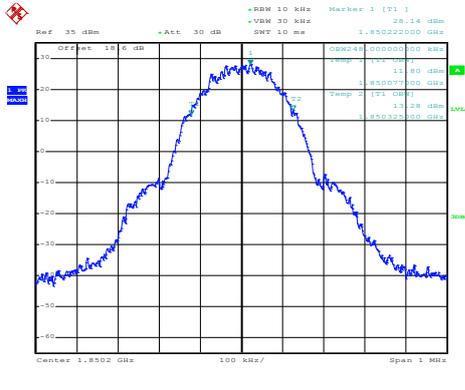


Date: 3.NOV.2015 11:13:36



GSM1900 (GPRS class 8)

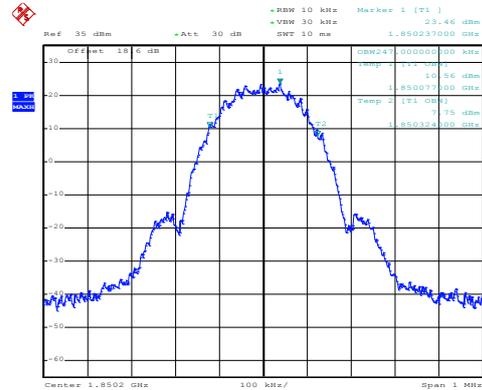
Lowest Channel



Date: 3.NOV.2015 11:36:56

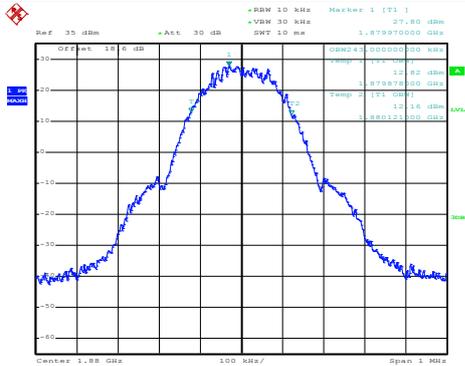
GSM1900 (EDGE class 8)

Lowest Channel



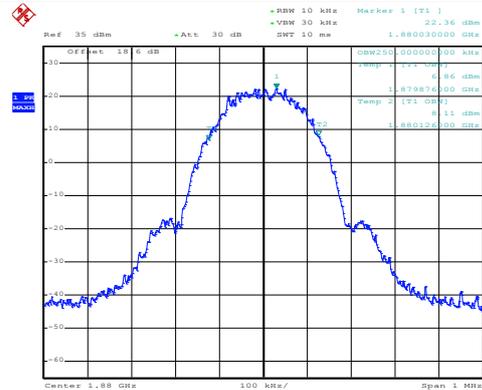
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Middle Channel



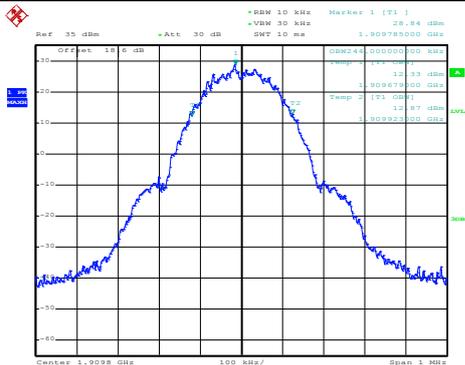
Date: 3.NOV.2015 11:37:35

Middle Channel



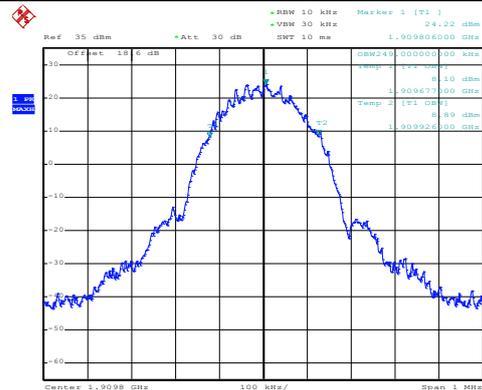
Date: 3.NOV.2015 13:00:04

Highest Channel



Date: 3.NOV.2015 11:38:11

Highest Channel



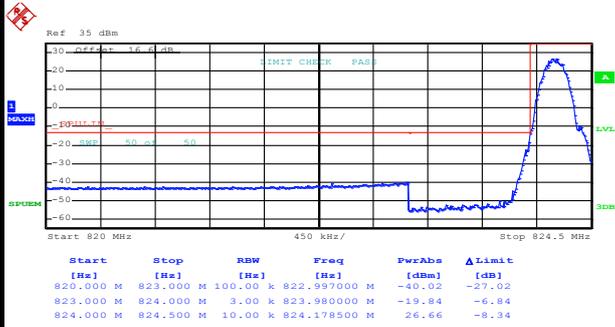
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# Conducted Band Edge

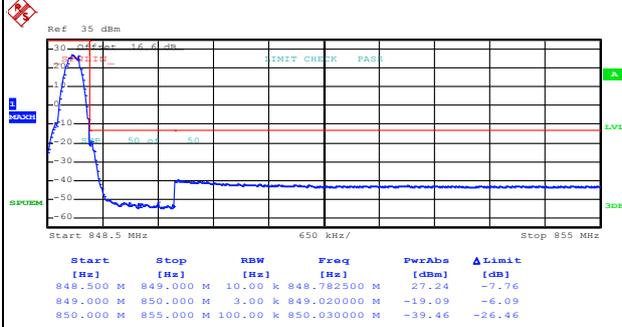
## GSM850 (GSM)

### Lowest Band Edge



Date: 3.NOV.2015 10:57:05

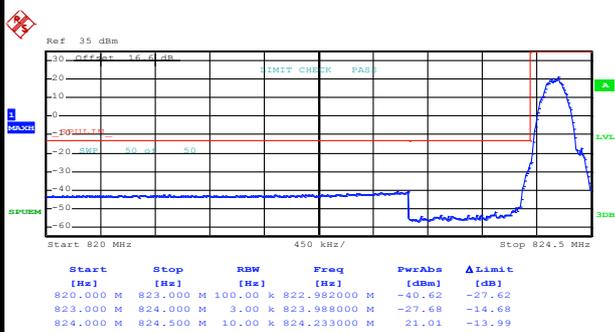
### Highest Band Edge



Date: 3.NOV.2015 10:59:01

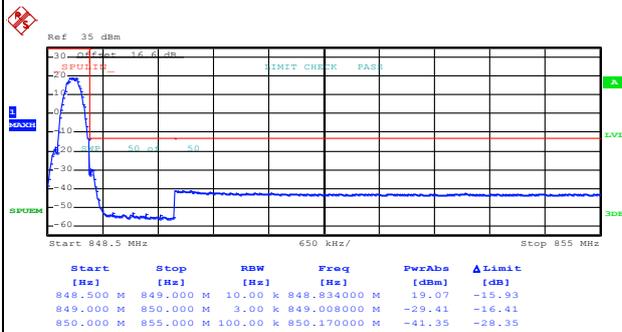
## GSM850 (EDGE class 8)

### Lowest Band Edge



Date: 3.NOV.2015 11:16:03

### Highest Band Edge



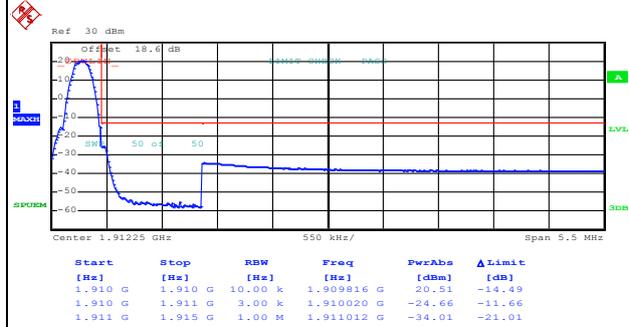
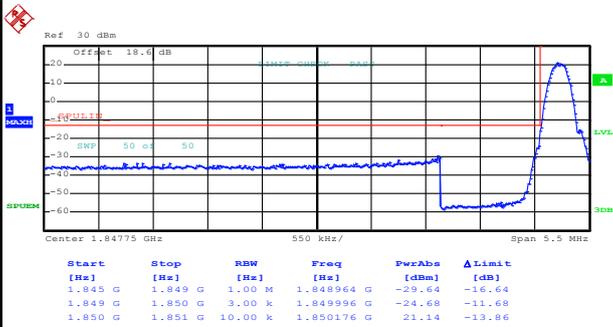
Date: 3.NOV.2015 11:17:42



GSM1900 (GPRS class 8)

Lowest Band Edge

Highest Band Edge



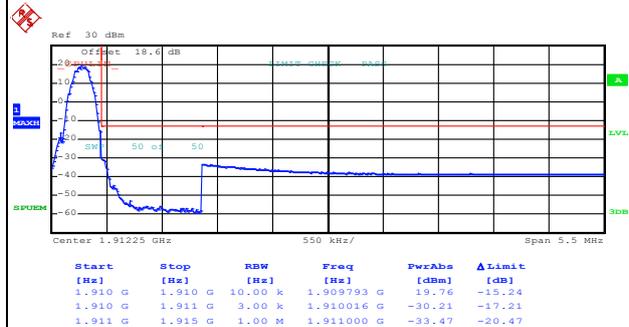
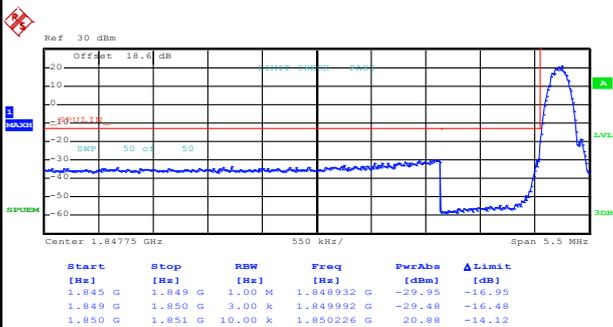
Date: 3.NOV.2015 12:02:01

Date: 3.NOV.2015 12:03:29

GSM1900 (EDGE class 8)

Lowest Band Edge

Highest Band Edge

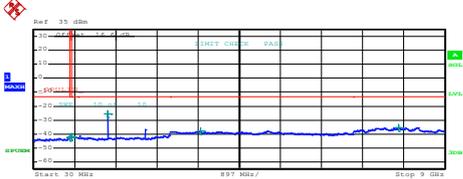
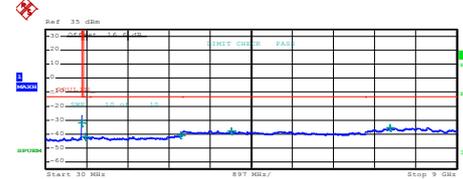
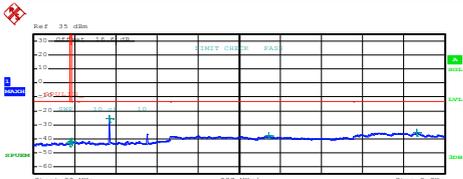
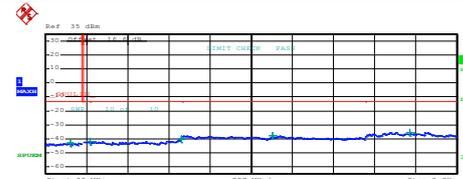
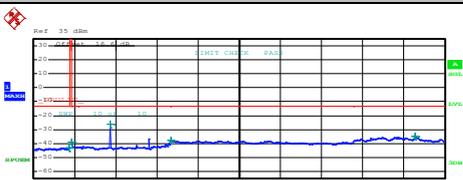
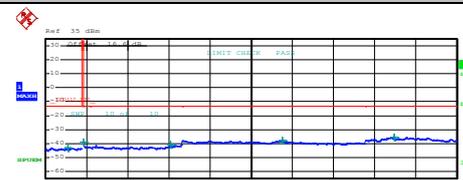


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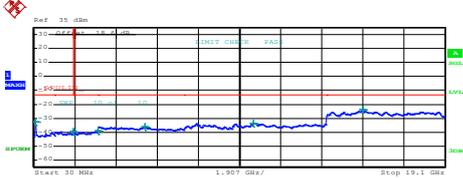
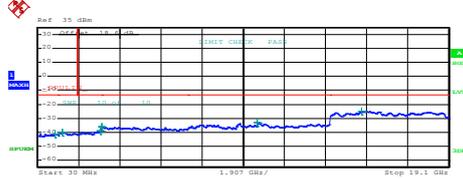
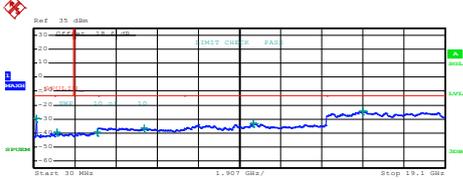
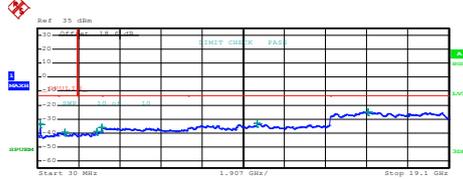
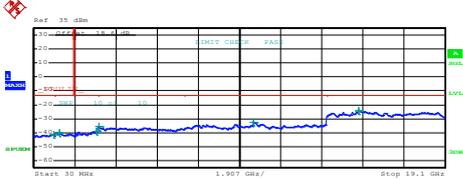
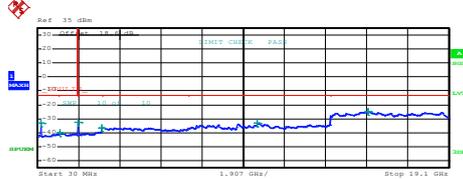
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# Conducted Spurious Emission

GSM850 (GSM)	GSM850 (EDGE class 8)																																																																								
Lowest Channel	Lowest Channel																																																																								
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1.845 G	3.0000 G	1.00 M	2.999911 G	-39.76	-26.76																																																																																
3.0000 G	7.0000 G	1.00 M	3.010000 G	-36.20	-23.20																																																																																
7.0000 G	13.6000 G	1.00 M	10.215025 G	-33.15	-20.15																																																																																
13.6000 G	19.1000 G	1.00 M	15.050825 G	-24.67	-11.67																																																																																
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### Frequency Stability

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		2.5ppm
50	Normal Voltage	0.0072	0.0096	PASS
40	Normal Voltage	0.0096	0.0048	
30	Normal Voltage	0.0024	0.0012	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0012	0.0048	
0	Normal Voltage	0.0012	0.0036	
-10	Normal Voltage	0.0048	0.0024	
-20	Normal Voltage	0.0072	0.0072	
-30	Normal Voltage	0.0060	0.0036	
20	Maximum Voltage	0.0072	0.0000	
20	Normal Voltage	0.0048	0.0024	
20	Battery End Point	0.0024	0.0012	

**Note:**

- 1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage =4.35 V
- 2. The frequency fundamental emissions stay within the authorized frequency block



Test Conditions	Middle Channel	GSM1900 (GPRS class 8)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0037	0.0053	PASS
40	Normal Voltage	0.0016	0.0043	
30	Normal Voltage	0.0011	0.0027	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0005	0.0027	
0	Normal Voltage	0.0021	0.0016	
-10	Normal Voltage	0.0011	0.0032	
-20	Normal Voltage	0.0005	0.0021	
-30	Normal Voltage	0.0021	0.0037	
20	Maximum Voltage	0.0011	0.0037	
20	Normal Voltage	0.0005	0.0016	
20	Battery End Point	0.0005	0.0027	

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage =4.35 V
2. The frequency fundamental emissions stay within the authorized frequency block.