



A1. GSM

Peak-to-Average Ratio

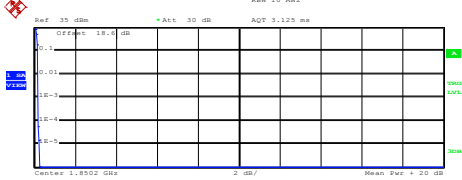
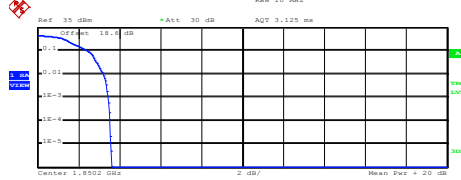
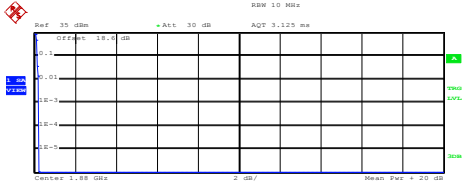
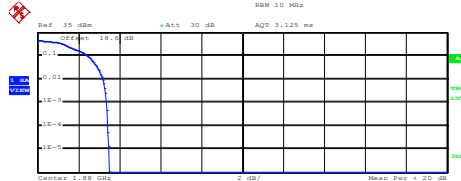
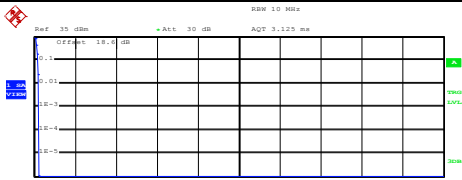
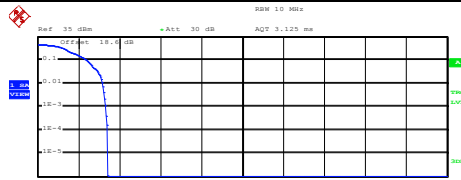
Mode	GSM850		Limit: 13dB
Mod.	GPRS class 8	EDGE class 8	Result
Lowest CH	0.24	3.40	PASS
Middle CH	0.20	3.28	
Highest CH	0.20	3.28	

Mode	GSM1900		Limit: 13dB
Mod.	GPRS class 8	EDGE class 8	Result
Lowest CH	0.20	3.44	PASS
Middle CH	0.24	3.36	
Highest CH	0.24	3.32	



GSM850 (GPRS class 8)	GSM850 (EDGE class 8)
<p align="center">Lowest Channel</p> <p align="center">Complementary Cumulative Distribution Function (100000 samples) Trace 1</p> <p>Mean 31.44 dBm Peak 31.65 dBm Crest 0.21 dB</p> <p>10 % 0.16 dB 1 % 0.24 dB .1 % 0.24 dB .01 % 0.24 dB</p> <p>Date: 6.NOV.2015 09:49:56</p>	<p align="center">Lowest Channel</p> <p align="center">Complementary Cumulative Distribution Function (100000 samples) Trace 1</p> <p>Mean 27.37 dBm Peak 30.88 dBm Crest 3.51 dB</p> <p>10 % 2.52 dB 1 % 3.24 dB .1 % 3.40 dB .01 % 3.48 dB</p> <p>Date: 11.NOV.2015 15:13:07</p>
<p align="center">Middle Channel</p> <p align="center">Complementary Cumulative Distribution Function (100000 samples) Trace 1</p> <p>Mean 31.39 dBm Peak 31.58 dBm Crest 0.19 dB</p> <p>10 % 0.20 dB 1 % 0.20 dB .1 % 0.20 dB .01 % 0.20 dB</p> <p>Date: 6.NOV.2015 09:50:13</p>	<p align="center">Middle Channel</p> <p align="center">Complementary Cumulative Distribution Function (100000 samples) Trace 1</p> <p>Mean 27.88 dBm Peak 31.23 dBm Crest 3.36 dB</p> <p>10 % 2.52 dB 1 % 3.16 dB .1 % 3.28 dB .01 % 3.36 dB</p> <p>Date: 11.NOV.2015 15:14:05</p>
<p align="center">Highest Channel</p> <p align="center">Complementary Cumulative Distribution Function (100000 samples) Trace 1</p> <p>Mean 31.27 dBm Peak 31.44 dBm Crest 0.17 dB</p> <p>10 % 0.16 dB 1 % 0.20 dB .1 % 0.20 dB .01 % 0.20 dB</p> <p>Date: 6.NOV.2015 09:50:29</p>	<p align="center">Highest Channel</p> <p align="center">Complementary Cumulative Distribution Function (100000 samples) Trace 1</p> <p>Mean 27.60 dBm Peak 30.88 dBm Crest 3.28 dB</p> <p>10 % 2.60 dB 1 % 3.16 dB .1 % 3.28 dB .01 % 3.32 dB</p> <p>Date: 11.NOV.2015 15:15:08</p>



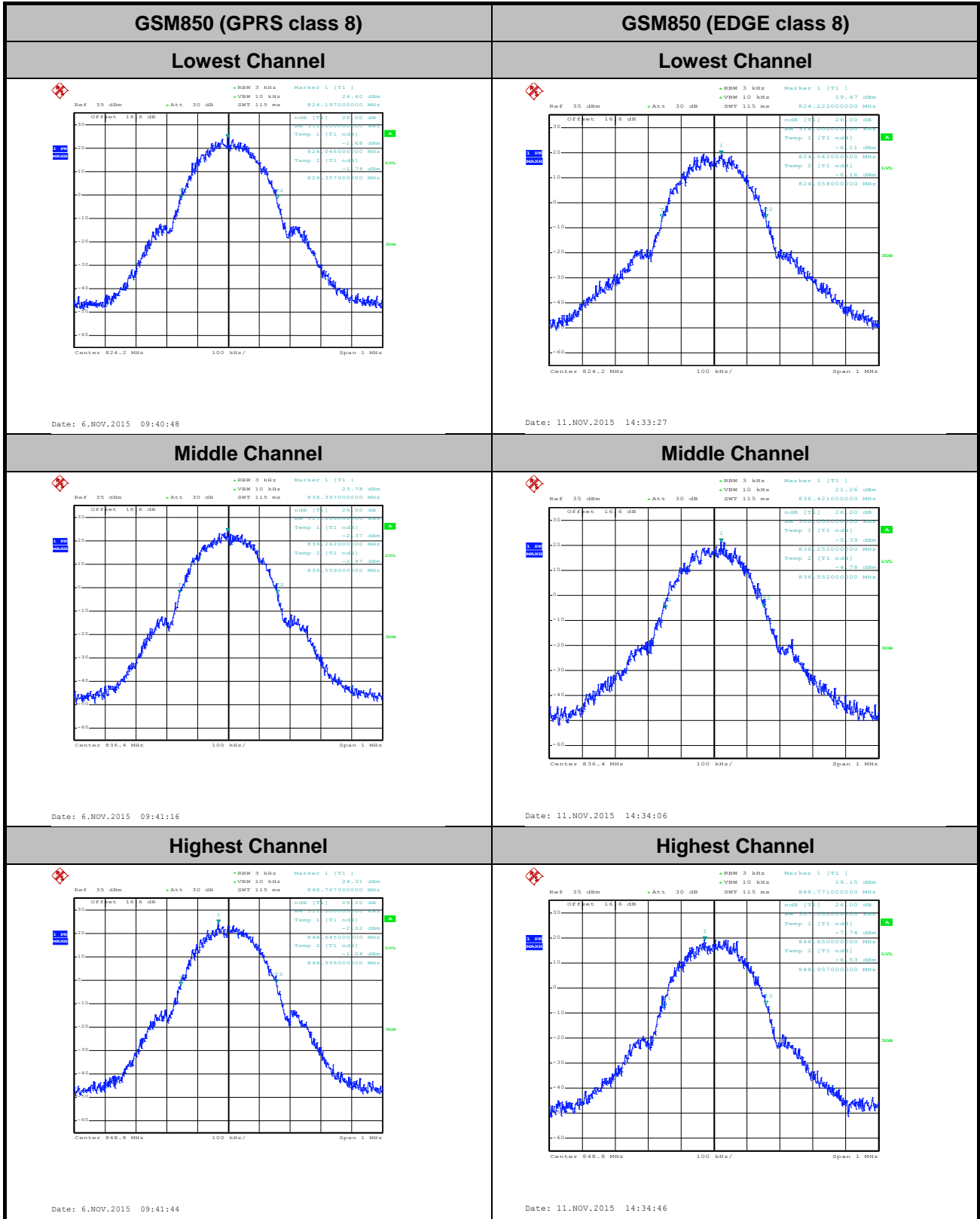
GSM1900 (GPRS class 8)	GSM1900 (EDGE class 8)																												
<p align="center">Lowest Channel</p>  <p>Ref: 35 dBm Att: 30 dB AQT: 3.125 ms</p> <p>Center: 1.8502 GHz 2 dB/ Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <table border="1"> <tr><td>Mean</td><td>28.79 dBm</td></tr> <tr><td>Peak</td><td>29.04 dBm</td></tr> <tr><td>Crest</td><td>0.25 dB</td></tr> </table> <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: 6.NOV.2015 10:34:11</p>	Mean	28.79 dBm	Peak	29.04 dBm	Crest	0.25 dB	10 %	0.16 dB	1 %	0.20 dB	.1 %	0.20 dB	.01 %	0.20 dB	<p align="center">Lowest Channel</p>  <p>Ref: 35 dBm Att: 30 dB AQT: 3.125 ms</p> <p>Center: 1.8502 GHz 2 dB/ Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <table border="1"> <tr><td>Mean</td><td>25.23 dBm</td></tr> <tr><td>Peak</td><td>28.83 dBm</td></tr> <tr><td>Crest</td><td>3.61 dB</td></tr> </table> <table border="1"> <tr><td>10 %</td><td>2.48 dB</td></tr> <tr><td>1 %</td><td>3.20 dB</td></tr> <tr><td>.1 %</td><td>3.44 dB</td></tr> <tr><td>.01 %</td><td>3.56 dB</td></tr> </table> <p>Date: 11.NOV.2015 14:59:54</p>	Mean	25.23 dBm	Peak	28.83 dBm	Crest	3.61 dB	10 %	2.48 dB	1 %	3.20 dB	.1 %	3.44 dB	.01 %	3.56 dB
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<p align="center">Middle Channel</p>  <p>Ref: 35 dBm Att: 30 dB AQT: 3.125 ms</p> <p>Center: 1.88 GHz 2 dB/ Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <table border="1"> <tr><td>Mean</td><td>29.09 dBm</td></tr> <tr><td>Peak</td><td>29.32 dBm</td></tr> <tr><td>Crest</td><td>0.23 dB</td></tr> </table> <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>0.24 dB</td></tr> <tr><td>.01 %</td><td>0.24 dB</td></tr> </table> <p>Date: 6.NOV.2015 10:34:26</p>	Mean	29.09 dBm	Peak	29.32 dBm	Crest	0.23 dB	10 %	0.16 dB	1 %	0.20 dB	.1 %	0.24 dB	.01 %	0.24 dB	<p align="center">Middle Channel</p>  <p>Ref: 35 dBm Att: 30 dB AQT: 3.125 ms</p> <p>Center: 1.88 GHz 2 dB/ Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <table border="1"> <tr><td>Mean</td><td>25.42 dBm</td></tr> <tr><td>Peak</td><td>28.90 dBm</td></tr> <tr><td>Crest</td><td>3.49 dB</td></tr> </table> <table border="1"> <tr><td>10 %</td><td>2.44 dB</td></tr> <tr><td>1 %</td><td>3.20 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: 11.NOV.2015 15:00:42</p>	Mean	25.42 dBm	Peak	28.90 dBm	Crest	3.49 dB	10 %	2.44 dB	1 %	3.20 dB	.1 %	3.36 dB	.01 %	3.44 dB
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<p align="center">Highest Channel</p>  <p>Ref: 35 dBm Att: 30 dB AQT: 3.125 ms</p> <p>Center: 1.9098 GHz 2 dB/ Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <table border="1"> <tr><td>Mean</td><td>28.70 dBm</td></tr> <tr><td>Peak</td><td>28.90 dBm</td></tr> <tr><td>Crest</td><td>0.21 dB</td></tr> </table> <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: 6.NOV.2015 10:34:46</p>	Mean	28.70 dBm	Peak	28.90 dBm	Crest	0.21 dB	10 %	0.20 dB	1 %	0.24 dB	.1 %	0.24 dB	.01 %	0.24 dB	<p align="center">Highest Channel</p>  <p>Ref: 35 dBm Att: 30 dB AQT: 3.125 ms</p> <p>Center: 1.9098 GHz 2 dB/ Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples)</p> <p>Trace 1</p> <table border="1"> <tr><td>Mean</td><td>24.99 dBm</td></tr> <tr><td>Peak</td><td>28.41 dBm</td></tr> <tr><td>Crest</td><td>3.43 dB</td></tr> </table> <table border="1"> <tr><td>10 %</td><td>2.40 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>3.40 dB</td></tr> </table> <p>Date: 11.NOV.2015 15:01:11</p>	Mean	24.99 dBm	Peak	28.41 dBm	Crest	3.43 dB	10 %	2.40 dB	1 %	3.16 dB	.1 %	3.32 dB	.01 %	3.40 dB
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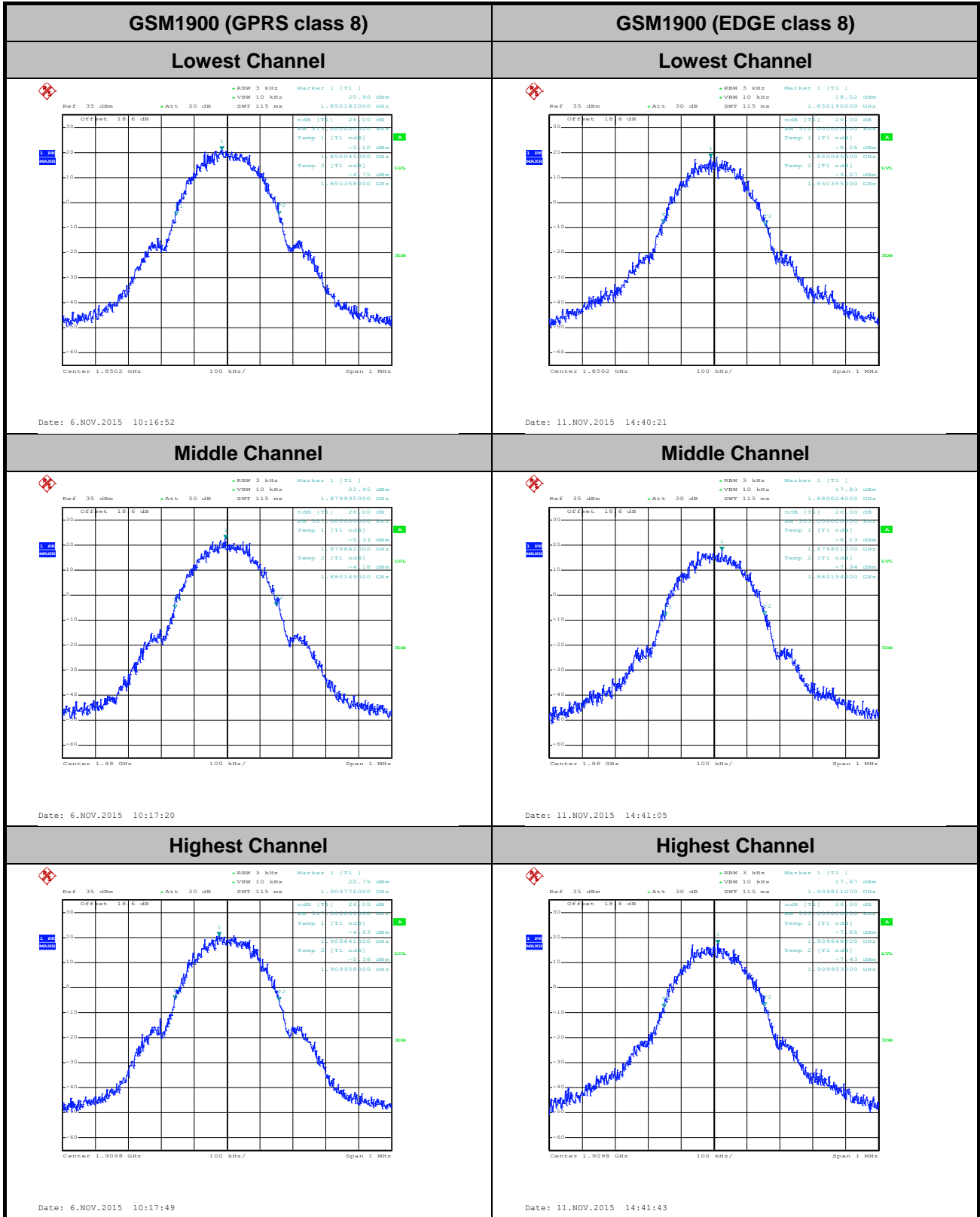


26dB Bandwidth

Mode	GSM850	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.311	0.316
Middle CH	0.317	0.300
Highest CH	0.311	0.307

Mode	GSM1900	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.313	0.310
Middle CH	0.307	0.303
Highest CH	0.317	0.305



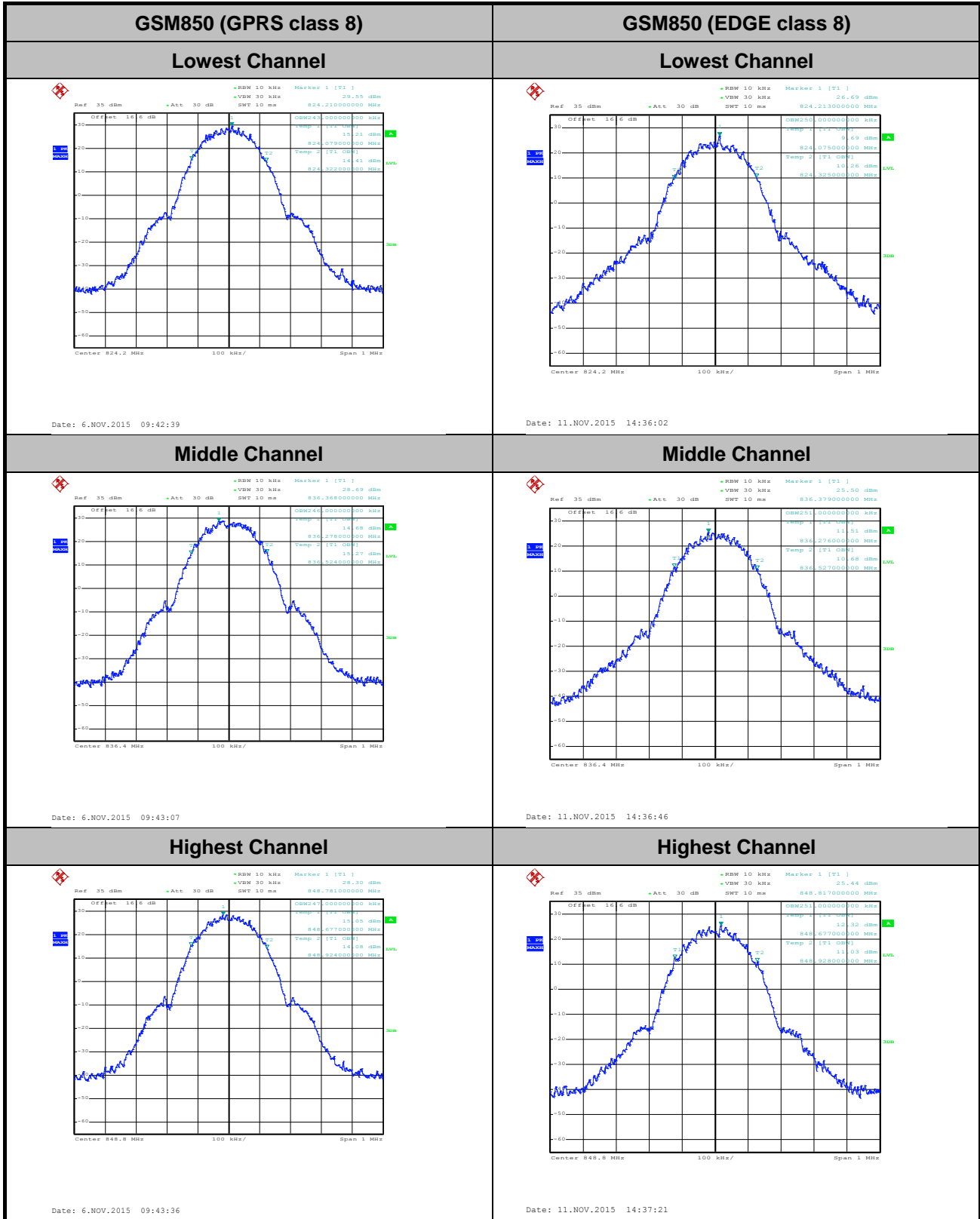


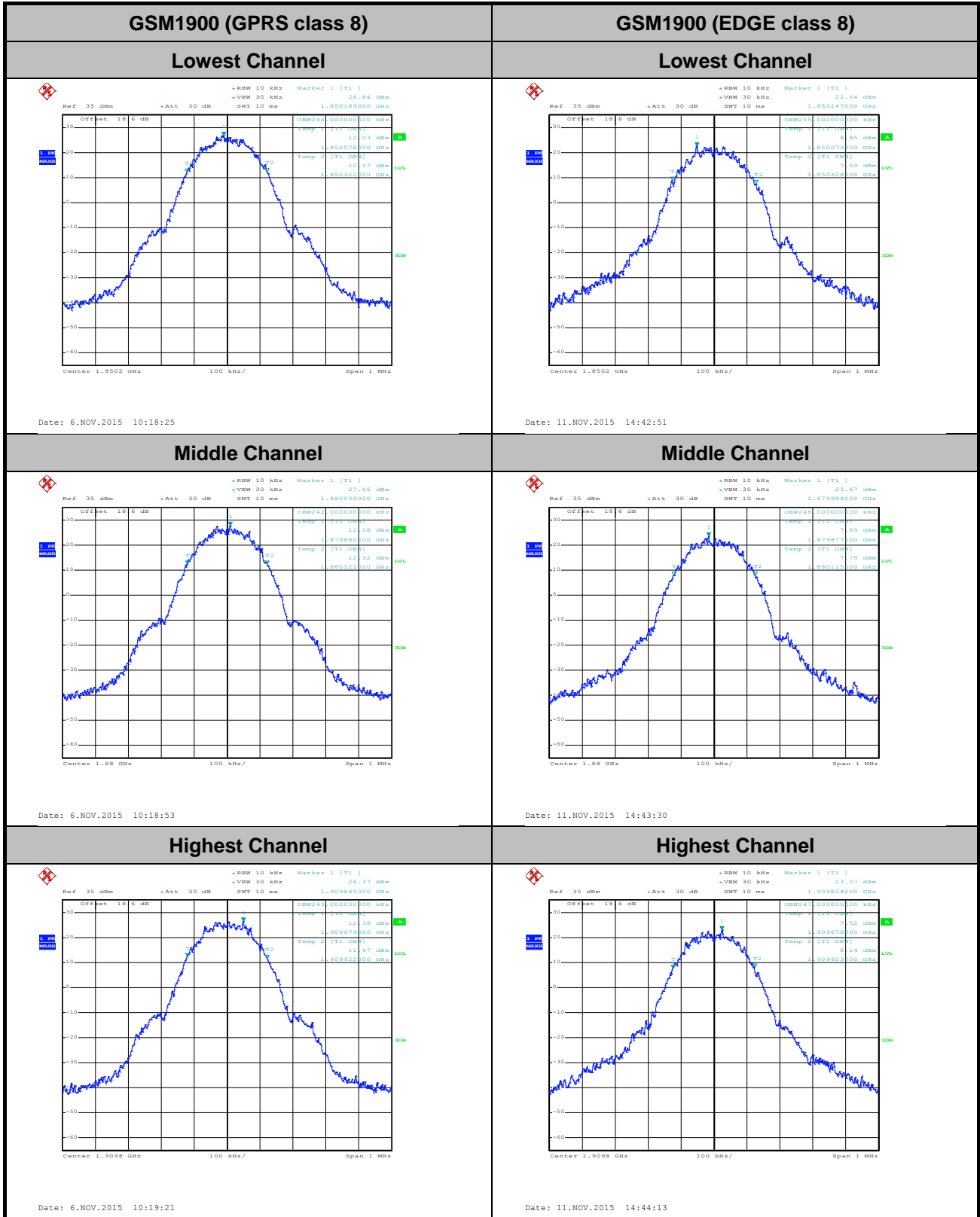


Occupied Bandwidth

Mode	GSM850	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.243	0.250
Middle CH	0.246	0.251
Highest CH	0.247	0.251

Mode	GSM1900	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.244	0.255
Middle CH	0.242	0.248
Highest CH	0.243	0.247





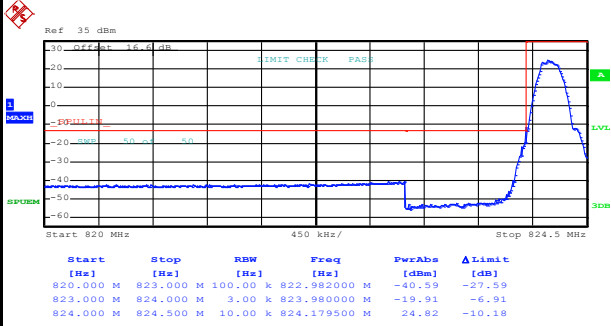


Conducted Band Edge



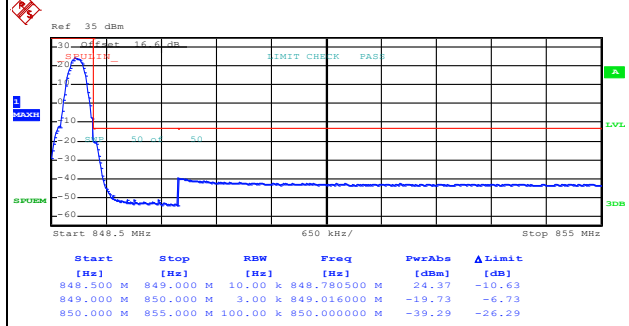
GSM850 (GPRS class 8)

Lowest Band Edge



Date: 6.NOV.2015 09:45:22

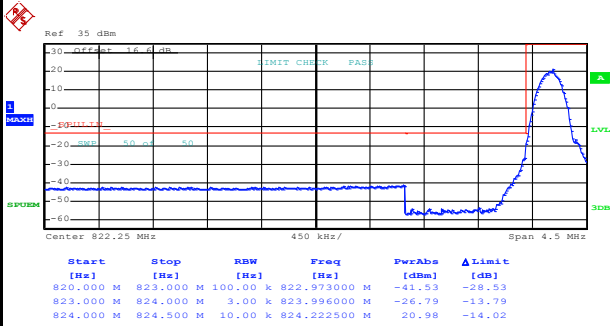
Highest Band Edge



Date: 6.NOV.2015 09:46:50

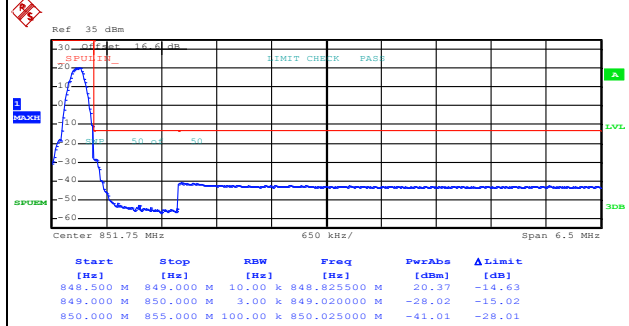
GSM850 (EDGE class 8)

Lowest Band Edge



Date: 11.NOV.2015 15:20:10

Highest Band Edge



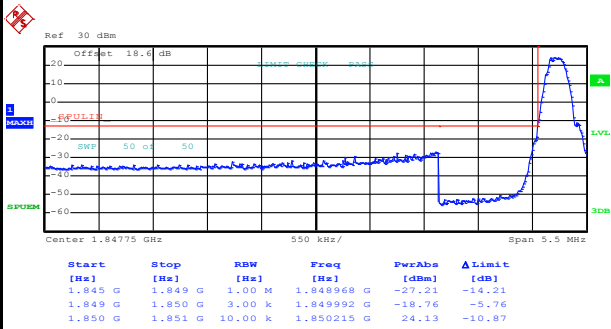
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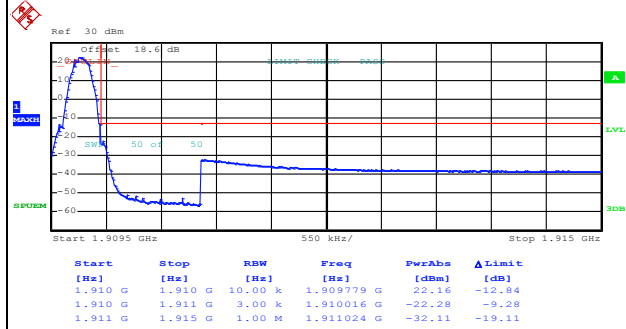
GSM1900 (GPRS class 8)

Lowest Band Edge

Highest Band Edge



Date: 6.NOV.2015 15:56:19

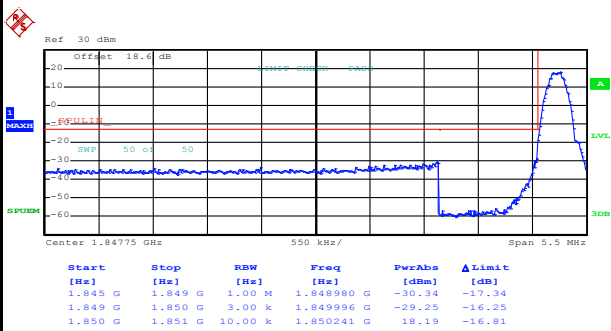


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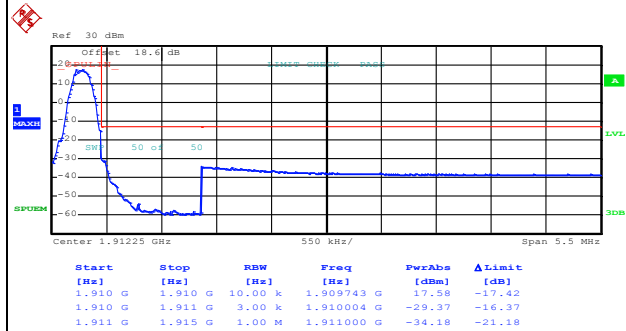
GSM1900 (EDGE class 8)

Lowest Band Edge

Highest Band Edge



Date: 11.NOV.2015 15:05:16

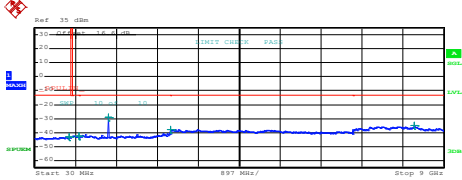
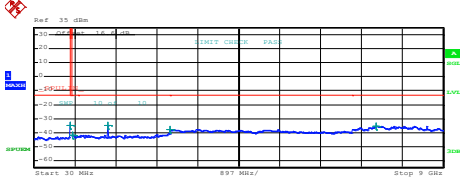
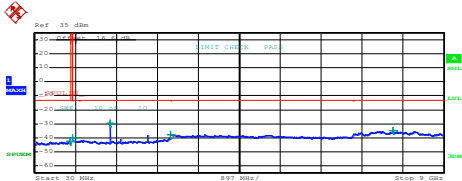
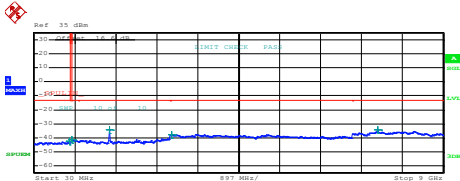
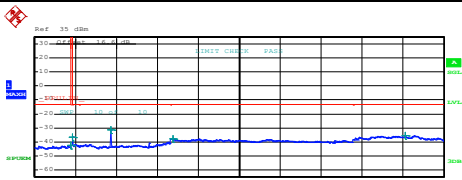
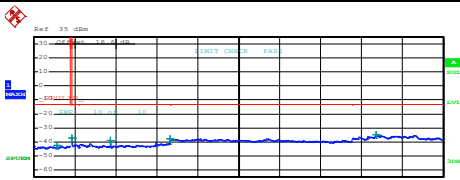


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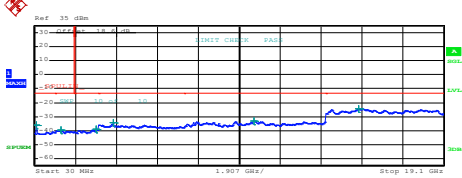
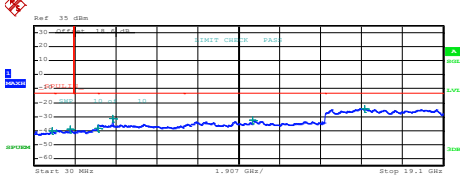
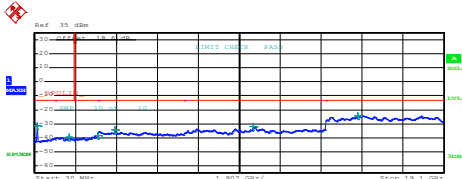
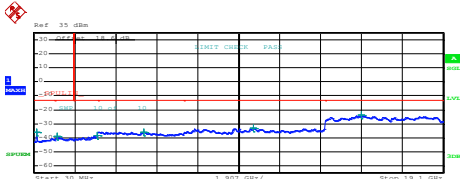
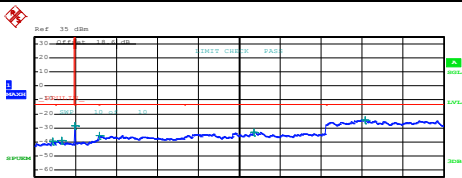
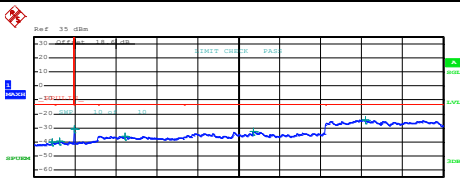


Conducted Spurious Emission



GSM850 (GPRS class 8)	GSM850 (EDGE class 8)																																																																								
Lowest Channel	Lowest Channel																																																																								
 <p>Ref: 35 dBm</p> <p>Start: 30 MHz, Stop: 9 GHz, RBW: 897 MHz</p> <table border="1"> <thead> <tr> <th>Start [MHz]</th> <th>Stop [MHz]</th> <th>RBW [MHz]</th> <th>Freq [MHz]</th> <th>PwrAve [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>35,000</td> <td>825,000</td> <td>1,000</td> <td>M 787,897500</td> <td>-43.11</td> <td>-20.13</td> </tr> <tr> <td>855,000</td> <td>1,000</td> <td>1,000</td> <td>M 995,722510</td> <td>-42.20</td> <td>-20.20</td> </tr> <tr> <td>1,000</td> <td>3,000</td> <td>1,000</td> <td>M 1,648500</td> <td>-28.90</td> <td>-21.90</td> </tr> <tr> <td>3,000</td> <td>7,000</td> <td>1,000</td> <td>M 3,008000</td> <td>-37.57</td> <td>-24.57</td> </tr> <tr> <td>7,000</td> <td>9,000</td> <td>1,000</td> <td>M 8,358500</td> <td>-34.88</td> <td>-21.88</td> </tr> </tbody> </table> <p>Date: 6.NOV.2015 09:47:46</p>	Start [MHz]	Stop [MHz]	RBW [MHz]	Freq [MHz]	PwrAve [dBm]	ΔLimit [dB]	35,000	825,000	1,000	M 787,897500	-43.11	-20.13	855,000	1,000	1,000	M 995,722510	-42.20	-20.20	1,000	3,000	1,000	M 1,648500	-28.90	-21.90	3,000	7,000	1,000	M 3,008000	-37.57	-24.57	7,000	9,000	1,000	M 8,358500	-34.88	-21.88	 <p>Ref: 35 dBm</p> <p>Start: 30 MHz, Stop: 9 GHz, RBW: 897 MHz</p> <table border="1"> <thead> <tr> <th>Start [MHz]</th> <th>Stop [MHz]</th> <th>RBW [MHz]</th> <th>Freq [MHz]</th> <th>PwrAve [dBm]</th> <th>ΔLimit [dB]</th> </tr> </thead> <tbody> <tr> <td>35,000</td> <td>825,000</td> <td>1,000</td> <td>M 819,653500</td> <td>-34.75</td> <td>-21.75</td> </tr> <tr> <td>855,000</td> <td>1,000</td> <td>1,000</td> <td>M 880,663002</td> <td>-41.95</td> <td>-28.95</td> </tr> <tr> <td>1,000</td> <td>3,000</td> <td>1,000</td> <td>M 1,648500</td> <td>-28.99</td> <td>-21.99</td> </tr> <tr> <td>3,000</td> <td>7,000</td> <td>1,000</td> <td>M 3,003500</td> <td>-37.58</td> <td>-24.58</td> </tr> <tr> <td>7,000</td> <td>9,000</td> <td>1,000</td> <td>M 7,536000</td> <td>-35.26</td> <td>-22.26</td> </tr> </tbody> </table> <p>Date: 11.NOV.2015 15:10:55</p>	Start [MHz]	Stop [MHz]	RBW [MHz]	Freq [MHz]	PwrAve [dBm]	ΔLimit [dB]	35,000	825,000	1,000	M 819,653500	-34.75	-21.75	855,000	1,000	1,000	M 880,663002	-41.95	-28.95	1,000	3,000	1,000	M 1,648500	-28.99	-21.99	3,000	7,000	1,000	M 3,003500	-37.58	-24.58	7,000	9,000	1,000	M 7,536000	-35.26	-22.26
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3,000	7,000	1,000	M 3,008000	-37.57	-24.57																																																																				
7,000	9,000	1,000	M 8,358500	-34.88	-21.88																																																																				
Start [MHz]	Stop [MHz]	RBW [MHz]	Freq [MHz]	PwrAve [dBm]	ΔLimit [dB]																																																																				
35,000	825,000	1,000	M 819,653500	-34.75	-21.75																																																																				
855,000	1,000	1,000	M 880,663002	-41.95	-28.95																																																																				
1,000	3,000	1,000	M 1,648500	-28.99	-21.99																																																																				
3,000	7,000	1,000	M 3,003500	-37.58	-24.58																																																																				
7,000	9,000	1,000	M 7,536000	-35.26	-22.26																																																																				
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GSM1900 (GPRS class 8)	GSM1900 (EDGE class 8)																																																																																				
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Frequency Stability

Test Conditions	Middle Channel	GSM850 (GPRS class 8)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0084	0.0036	PASS
40	Normal Voltage	0.0012	0.0012	
30	Normal Voltage	0.0036	0.0048	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0048	0.0060	
0	Normal Voltage	0.0024	0.0299	
-10	Normal Voltage	0.0072	0.0024	
-20	Normal Voltage	0.0096	0.0227	
-30	Normal Voltage	0.0060	0.0275	
20	Maximum Voltage	0.0287	0.0263	
20	Normal Voltage	0.0335	0.0072	
20	Battery End Point	0.0251	0.0036	



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	0.0027	0.0005	PASS
40	Normal Voltage	0.0048	0.0005	
30	Normal Voltage	0.0011	0.0016	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0053	0.0027	
0	Normal Voltage	0.0005	0.0149	
-10	Normal Voltage	0.0032	0.0181	
-20	Normal Voltage	0.0016	0.0186	
-30	Normal Voltage	0.0016	0.0165	
20	Maximum Voltage	0.0021	0.0021	
20	Normal Voltage	0.0043	0.0032	
20	Battery End Point	0.0027	0.0011	

Note:

- 1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.35 V
- 2. The frequency fundamental emissions stay within the authorized frequency block