



A2. GSM

Peak-to-Average Ratio

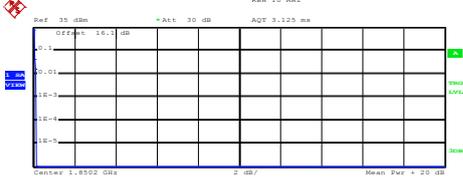
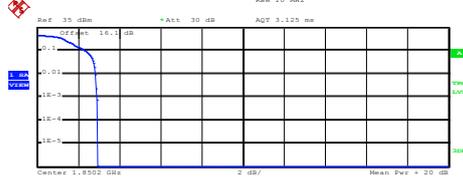
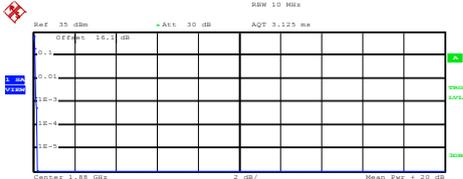
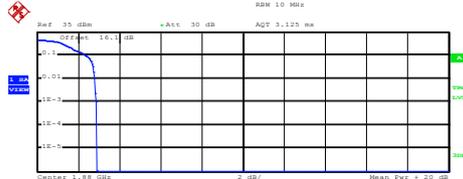
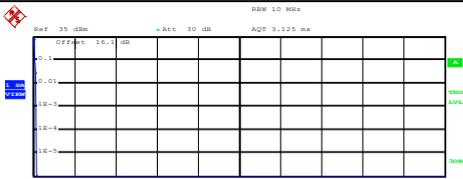
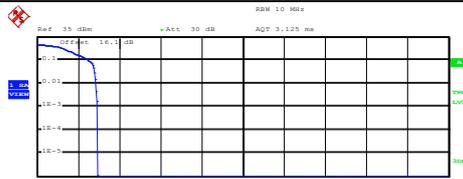
Mode	GSM850		Limit: 13dB
Mod.	GPRS class 8	EDGE class 8	Result
Lowest CH	0.16	3.08	PASS
Middle CH	0.16	3.16	
Highest CH	0.16	2.96	

Mode	GSM1900		Limit: 13dB
Mod.	GPRS class 8	EDGE class 8	Result
Lowest CH	0.16	2.92	PASS
Middle CH	0.16	2.88	
Highest CH	0.16	2.92	



GSM850 (GPRS class 8)	GSM850 (EDGE class 8)																
<p align="center">Lowest Channel</p> <p>Ref: 35 dBm, Att: 30 dB, AQT: 3.125 ms, RBW: 10 MHz, Center: 824.2 MHz, Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 33.50 dBm Peak: 33.63 dBm Crest: 0.14 dB</p> <table border="1"> <tr><td>10 %</td><td>0.08 dB</td></tr> <tr><td>1 %</td><td>0.16 dB</td></tr> <tr><td>.1 %</td><td>0.16 dB</td></tr> <tr><td>.01 %</td><td>0.16 dB</td></tr> </table> <p>Date: 29.SEP.2016 17:01:16</p>	10 %	0.08 dB	1 %	0.16 dB	.1 %	0.16 dB	.01 %	0.16 dB	<p align="center">Lowest Channel</p> <p>Ref: 35 dBm, Att: 30 dB, AQT: 3.125 ms, RBW: 10 MHz, Center: 824.2 MHz, Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 27.71 dBm Peak: 30.81 dBm Crest: 3.10 dB</p> <table border="1"> <tr><td>10 %</td><td>2.48 dB</td></tr> <tr><td>1 %</td><td>3.00 dB</td></tr> <tr><td>.1 %</td><td>3.08 dB</td></tr> <tr><td>.01 %</td><td>3.12 dB</td></tr> </table> <p>Date: 29.SEP.2016 17:22:38</p>	10 %	2.48 dB	1 %	3.00 dB	.1 %	3.08 dB	.01 %	3.12 dB
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1 %	0.16 dB																
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<p align="center">Middle Channel</p> <p>Ref: 35 dBm, Att: 30 dB, AQT: 3.125 ms, RBW: 10 MHz, Center: 836.4 MHz, Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 33.39 dBm Peak: 33.56 dBm Crest: 0.17 dB</p> <table border="1"> <tr><td>10 %</td><td>0.08 dB</td></tr> <tr><td>1 %</td><td>0.12 dB</td></tr> <tr><td>.1 %</td><td>0.16 dB</td></tr> <tr><td>.01 %</td><td>0.20 dB</td></tr> </table> <p>Date: 29.SEP.2016 17:04:04</p>	10 %	0.08 dB	1 %	0.12 dB	.1 %	0.16 dB	.01 %	0.20 dB	<p align="center">Middle Channel</p> <p>Ref: 35 dBm, Att: 30 dB, AQT: 3.125 ms, RBW: 10 MHz, Center: 836.4 MHz, Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 27.56 dBm Peak: 30.74 dBm Crest: 3.18 dB</p> <table border="1"> <tr><td>10 %</td><td>2.56 dB</td></tr> <tr><td>1 %</td><td>3.08 dB</td></tr> <tr><td>.1 %</td><td>3.16 dB</td></tr> <tr><td>.01 %</td><td>3.20 dB</td></tr> </table> <p>Date: 29.SEP.2016 17:24:11</p>	10 %	2.56 dB	1 %	3.08 dB	.1 %	3.16 dB	.01 %	3.20 dB
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<p align="center">Highest Channel</p> <p>Ref: 35 dBm, Att: 30 dB, AQT: 3.125 ms, RBW: 10 MHz, Center: 848.8 MHz, Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 33.41 dBm Peak: 33.56 dBm Crest: 0.16 dB</p> <table border="1"> <tr><td>10 %</td><td>0.08 dB</td></tr> <tr><td>1 %</td><td>0.16 dB</td></tr> <tr><td>.1 %</td><td>0.16 dB</td></tr> <tr><td>.01 %</td><td>0.16 dB</td></tr> </table> <p>Date: 29.SEP.2016 17:07:24</p>	10 %	0.08 dB	1 %	0.16 dB	.1 %	0.16 dB	.01 %	0.16 dB	<p align="center">Highest Channel</p> <p>Ref: 35 dBm, Att: 30 dB, AQT: 3.125 ms, RBW: 10 MHz, Center: 848.8 MHz, Mean Pwr: +20 dB</p> <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 27.83 dBm Peak: 30.81 dBm Crest: 2.98 dB</p> <table border="1"> <tr><td>10 %</td><td>2.48 dB</td></tr> <tr><td>1 %</td><td>2.88 dB</td></tr> <tr><td>.1 %</td><td>2.96 dB</td></tr> <tr><td>.01 %</td><td>3.00 dB</td></tr> </table> <p>Date: 29.SEP.2016 17:25:40</p>	10 %	2.48 dB	1 %	2.88 dB	.1 %	2.96 dB	.01 %	3.00 dB
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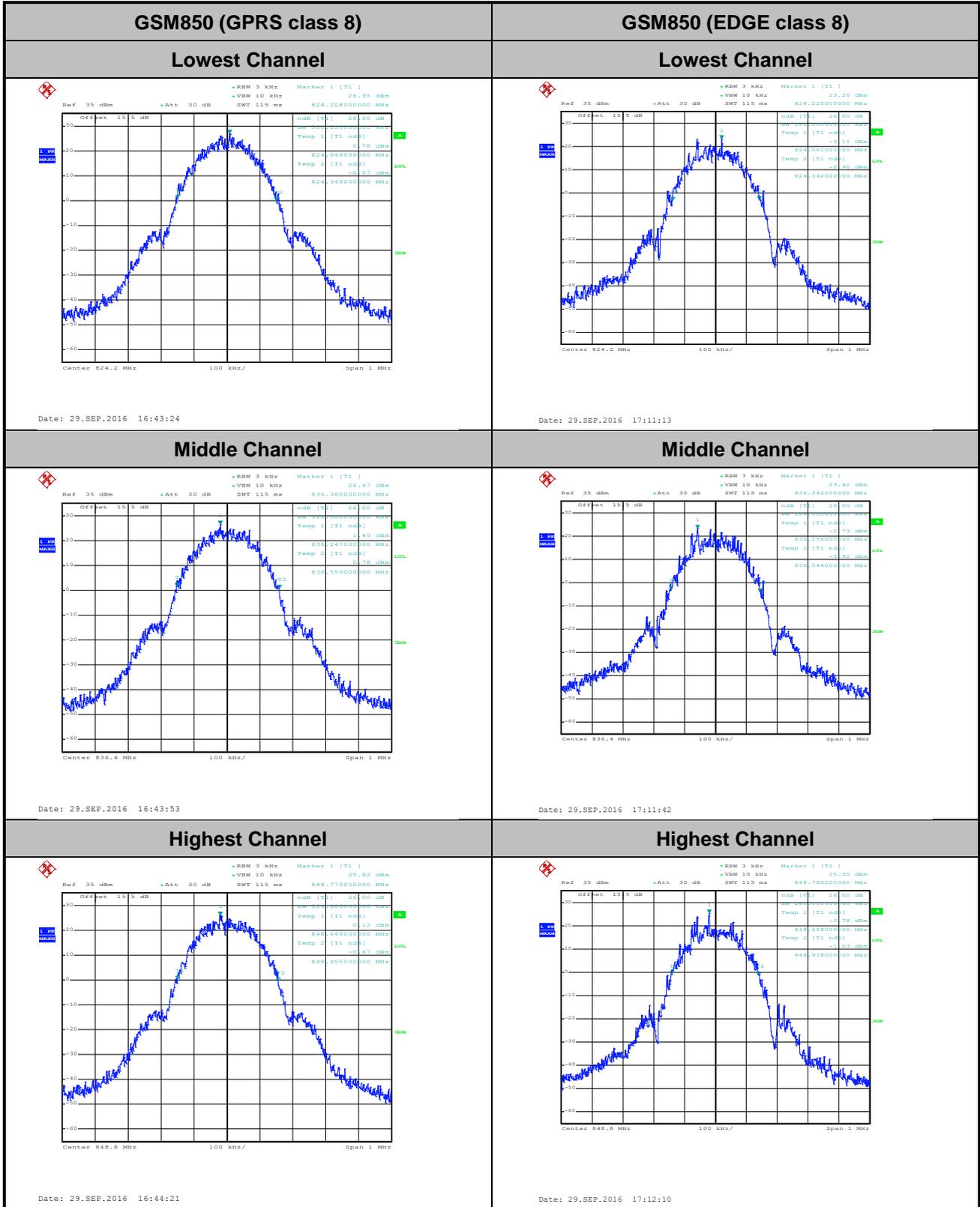
GSM1900 (GPRS class 8)	GSM1900 (EDGE class 8)																
<p align="center">Lowest Channel</p>  <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 29.54 dBm Peak 29.68 dBm Crest 0.15 dB</p> <table border="1"> <tr><td>10 %</td><td>0.08 dB</td></tr> <tr><td>1 %</td><td>0.12 dB</td></tr> <tr><td>.1 %</td><td>0.16 dB</td></tr> <tr><td>.01 %</td><td>0.16 dB</td></tr> </table> <p>Date: 29.SEP.2016 17:52:51</p>	10 %	0.08 dB	1 %	0.12 dB	.1 %	0.16 dB	.01 %	0.16 dB	<p align="center">Lowest Channel</p>  <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 25.62 dBm Peak 28.55 dBm Crest 2.93 dB</p> <table border="1"> <tr><td>10 %</td><td>2.36 dB</td></tr> <tr><td>1 %</td><td>2.84 dB</td></tr> <tr><td>.1 %</td><td>2.92 dB</td></tr> <tr><td>.01 %</td><td>2.96 dB</td></tr> </table> <p>Date: 29.SEP.2016 18:14:18</p>	10 %	2.36 dB	1 %	2.84 dB	.1 %	2.92 dB	.01 %	2.96 dB
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<p align="center">Middle Channel</p>  <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 29.43 dBm Peak 29.61 dBm Crest 0.18 dB</p> <table border="1"> <tr><td>10 %</td><td>0.12 dB</td></tr> <tr><td>1 %</td><td>0.12 dB</td></tr> <tr><td>.1 %</td><td>0.16 dB</td></tr> <tr><td>.01 %</td><td>0.20 dB</td></tr> </table> <p>Date: 29.SEP.2016 17:53:52</p>	10 %	0.12 dB	1 %	0.12 dB	.1 %	0.16 dB	.01 %	0.20 dB	<p align="center">Middle Channel</p>  <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 25.58 dBm Peak 28.48 dBm Crest 2.90 dB</p> <table border="1"> <tr><td>10 %</td><td>2.36 dB</td></tr> <tr><td>1 %</td><td>2.80 dB</td></tr> <tr><td>.1 %</td><td>2.88 dB</td></tr> <tr><td>.01 %</td><td>2.92 dB</td></tr> </table> <p>Date: 29.SEP.2016 18:14:59</p>	10 %	2.36 dB	1 %	2.80 dB	.1 %	2.88 dB	.01 %	2.92 dB
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<p align="center">Highest Channel</p>  <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 29.55 dBm Peak 29.68 dBm Crest 0.13 dB</p> <table border="1"> <tr><td>10 %</td><td>0.08 dB</td></tr> <tr><td>1 %</td><td>0.16 dB</td></tr> <tr><td>.1 %</td><td>0.16 dB</td></tr> <tr><td>.01 %</td><td>0.16 dB</td></tr> </table> <p>Date: 29.SEP.2016 17:54:57</p>	10 %	0.08 dB	1 %	0.16 dB	.1 %	0.16 dB	.01 %	0.16 dB	<p align="center">Highest Channel</p>  <p>Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 25.46 dBm Peak 28.41 dBm Crest 2.95 dB</p> <table border="1"> <tr><td>10 %</td><td>2.52 dB</td></tr> <tr><td>1 %</td><td>2.84 dB</td></tr> <tr><td>.1 %</td><td>2.92 dB</td></tr> <tr><td>.01 %</td><td>2.96 dB</td></tr> </table> <p>Date: 29.SEP.2016 18:16:03</p>	10 %	2.52 dB	1 %	2.84 dB	.1 %	2.92 dB	.01 %	2.96 dB
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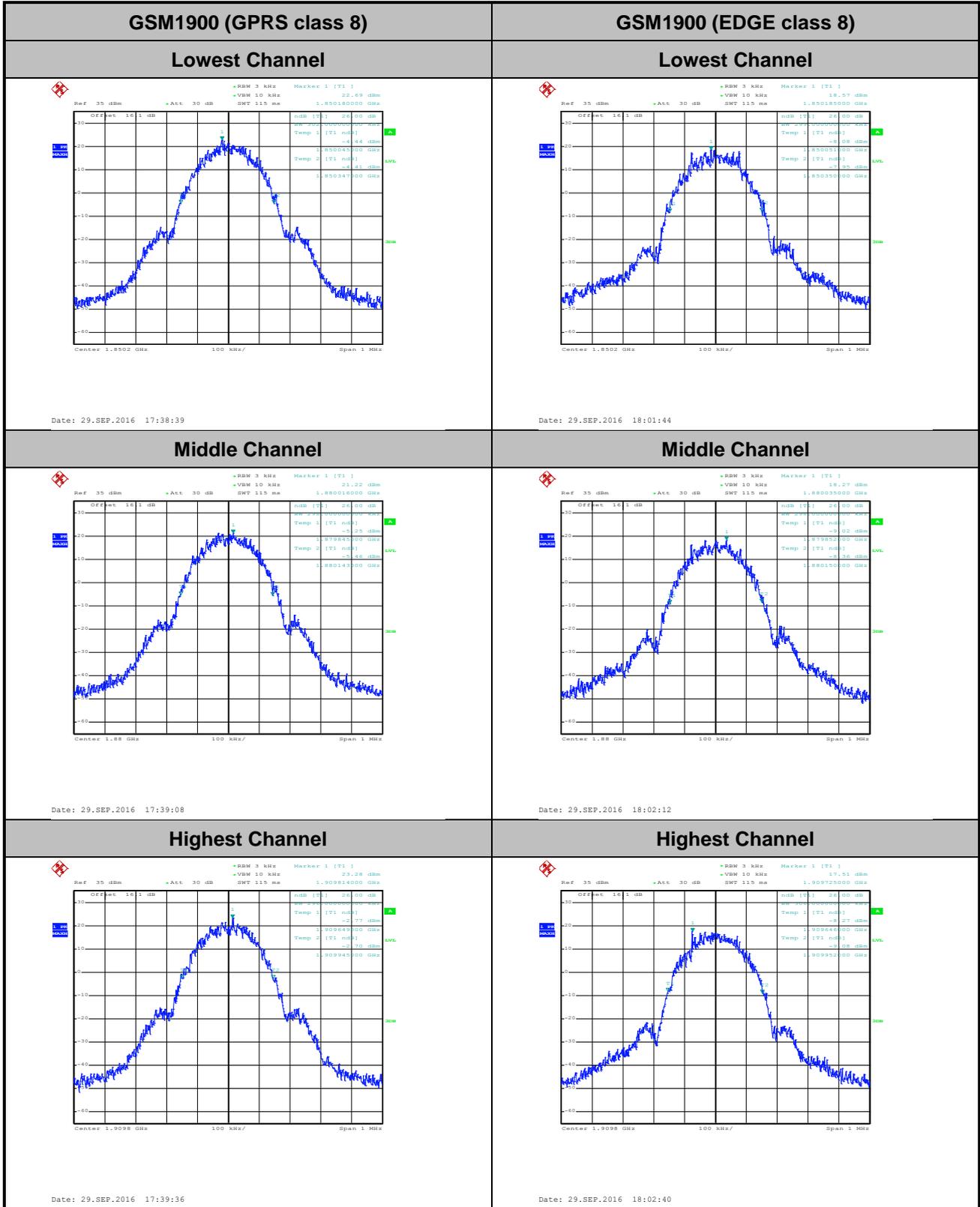


26dB Bandwidth

Mode	GSM850	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.300	0.281
Middle CH	0.312	0.288
Highest CH	0.306	0.280

Mode	GSM1900	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.302	0.299
Middle CH	0.298	0.298
Highest CH	0.296	0.306



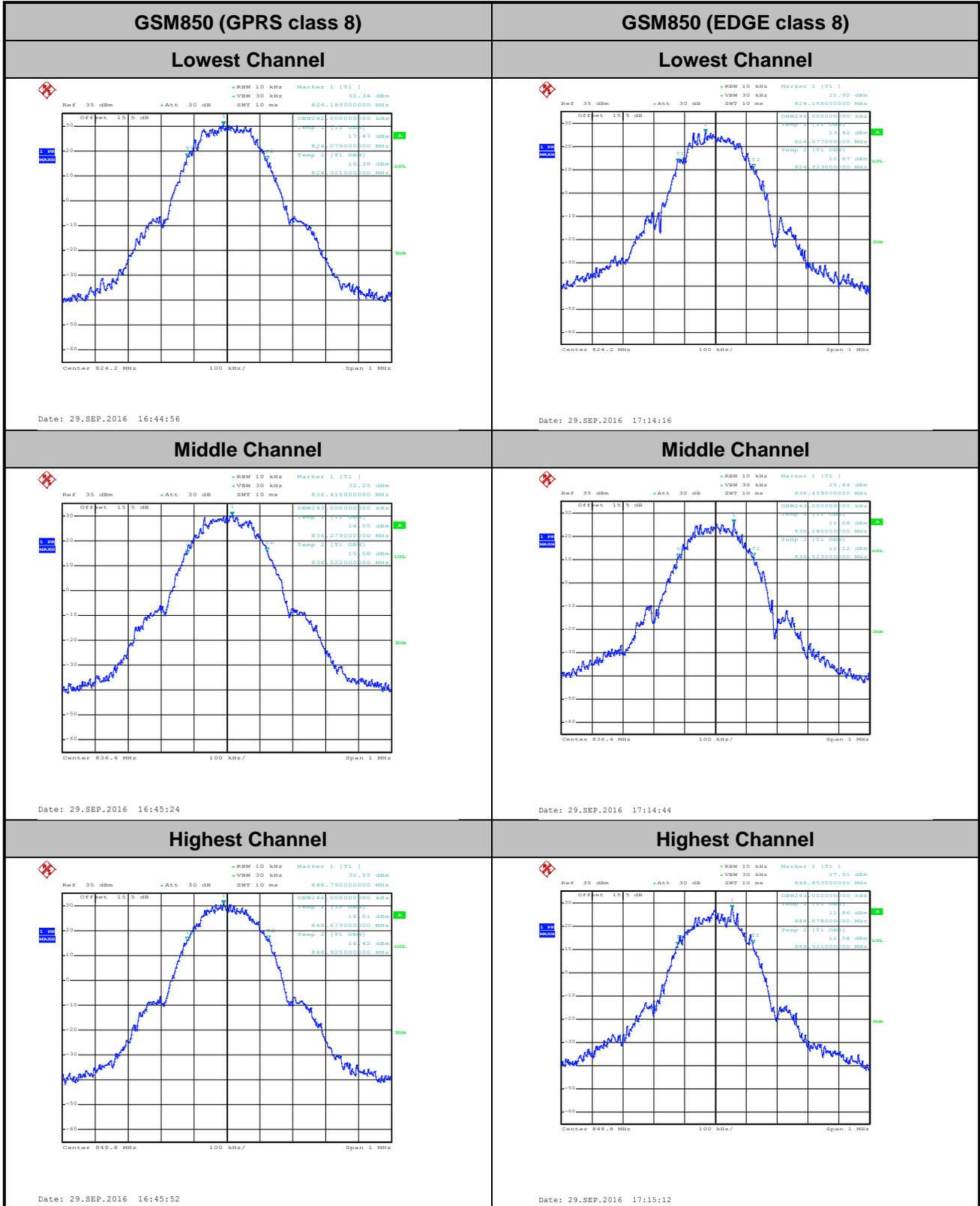


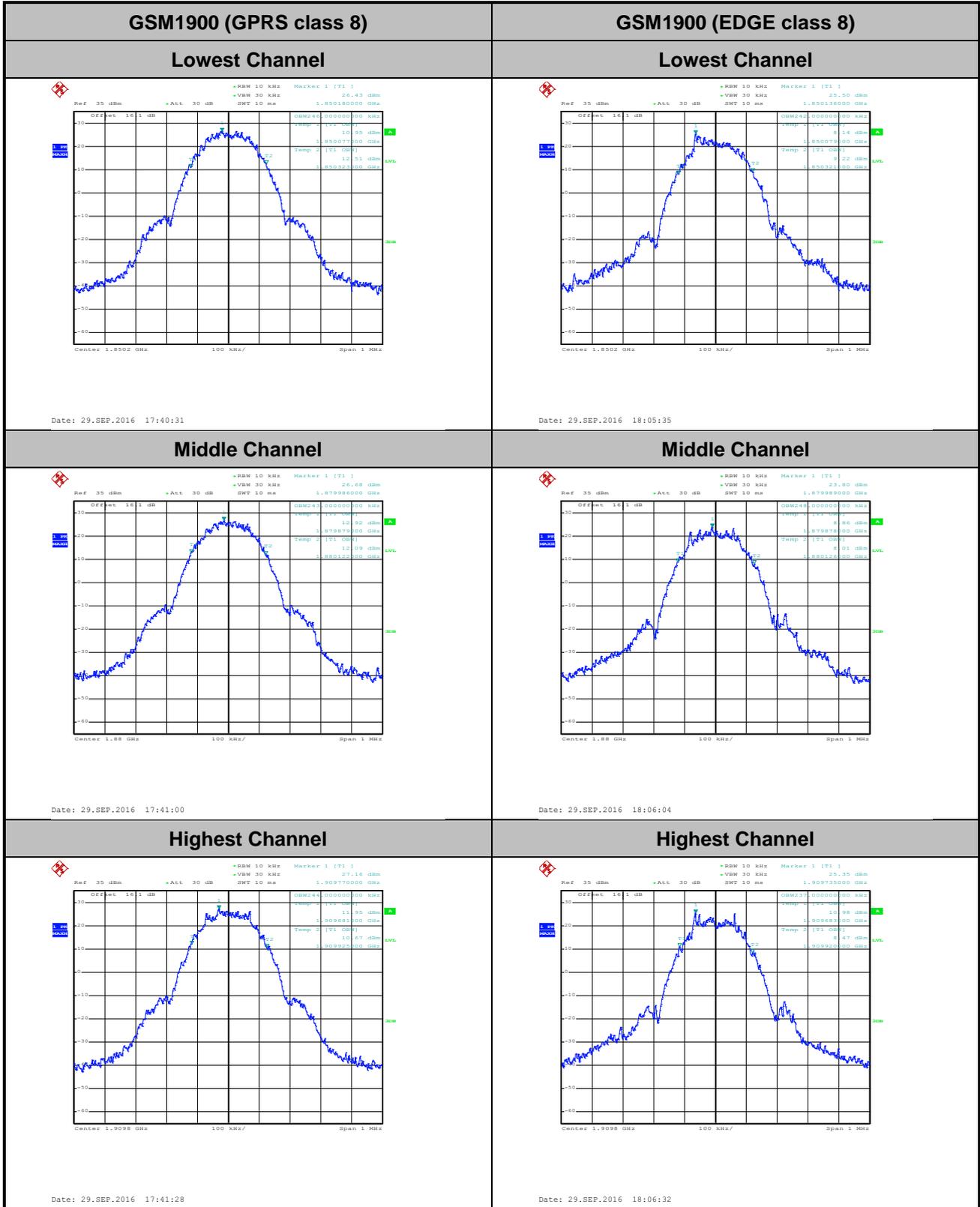


Occupied Bandwidth

Mode	GSM850	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.242	0.246
Middle CH	0.243	0.243
Highest CH	0.246	0.243

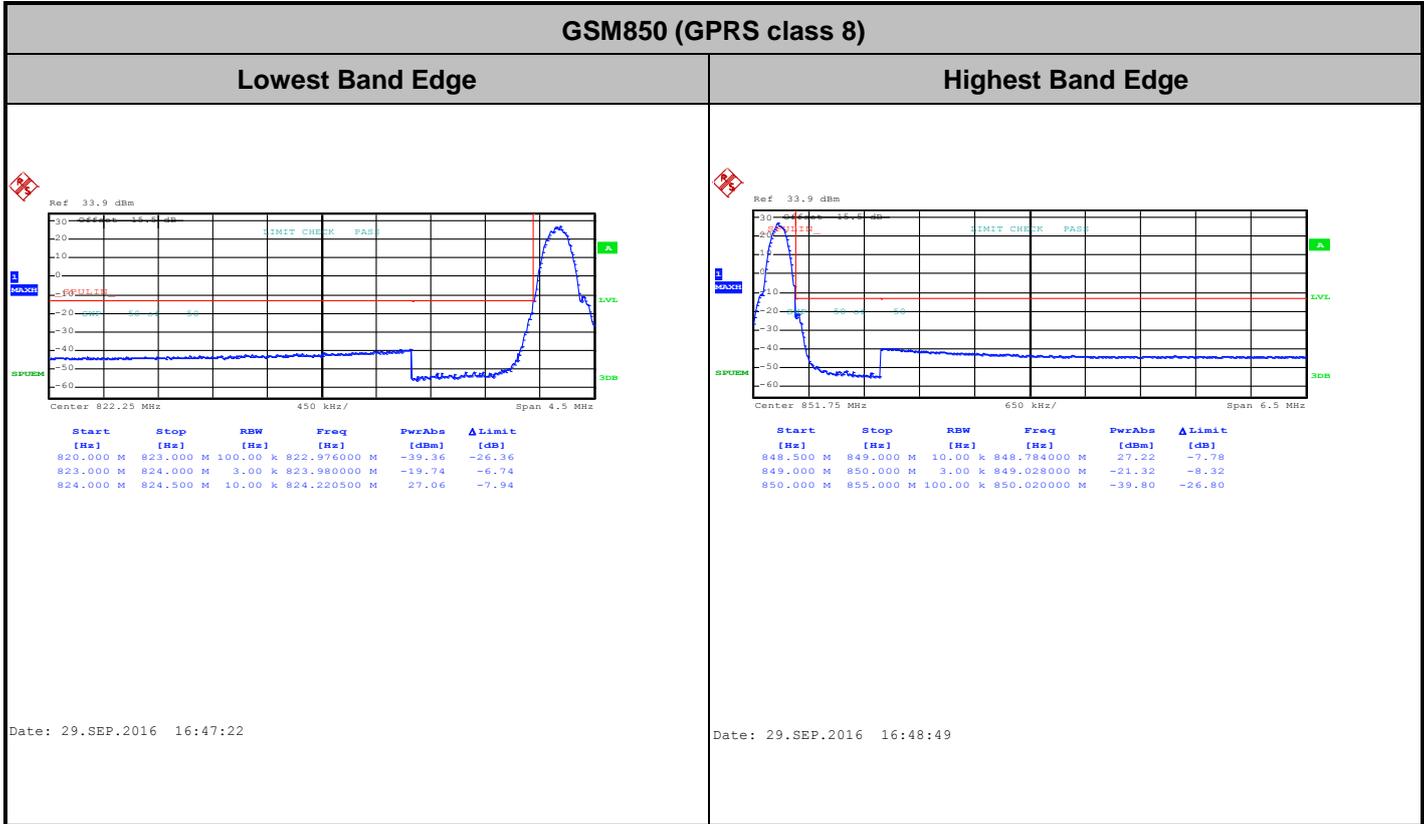
Mode	GSM1900	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.246	0.242
Middle CH	0.243	0.248
Highest CH	0.244	0.237







Conducted Band Edge

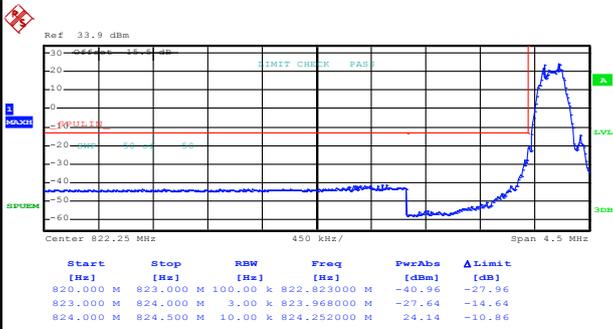




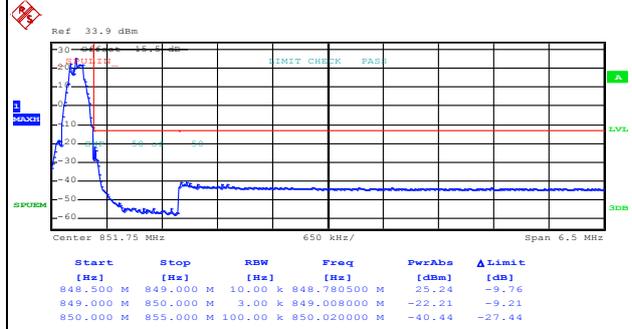
GSM850 (EDGE class 8)

Lowest Band Edge

Highest Band Edge



Date: 29.SEP.2016 17:16:57



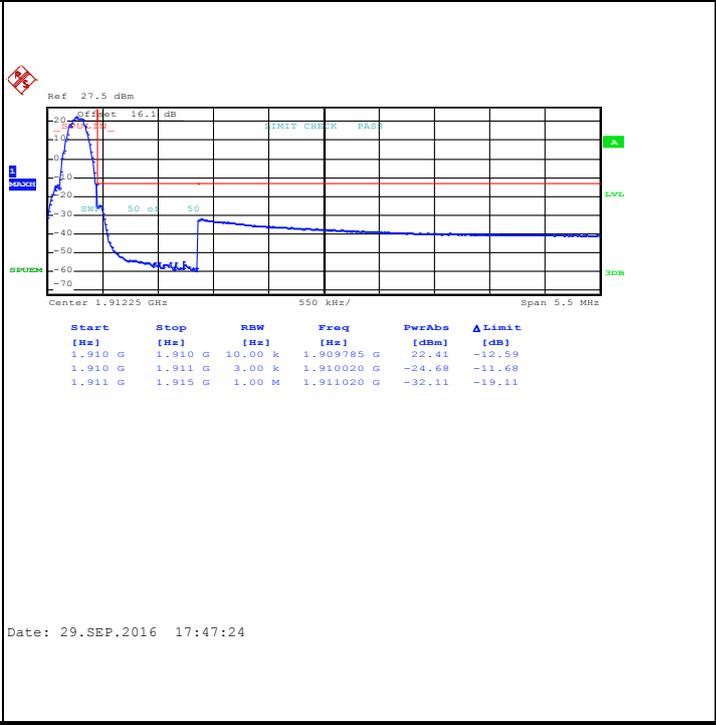
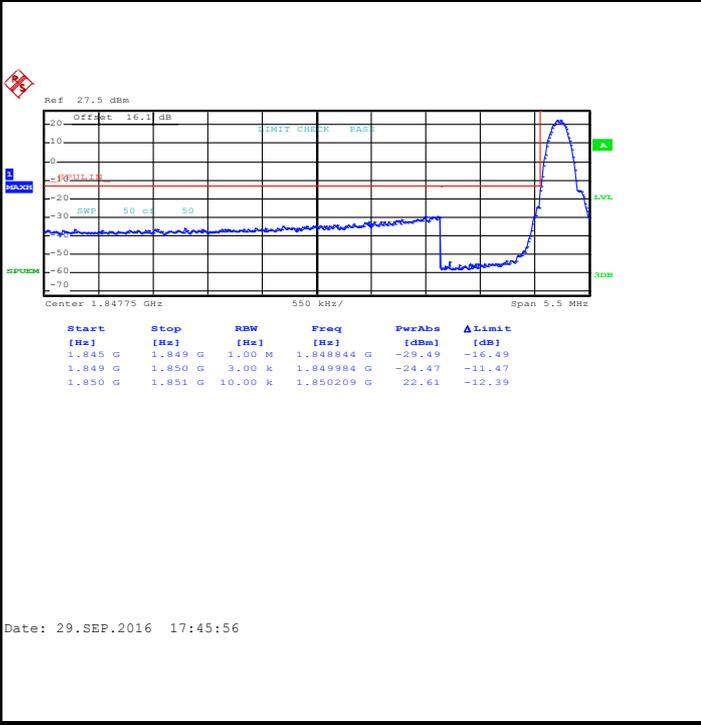
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GSM1900 (GPRS class 8)

Lowest Band Edge

Highest Band Edge

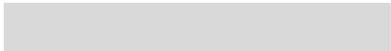
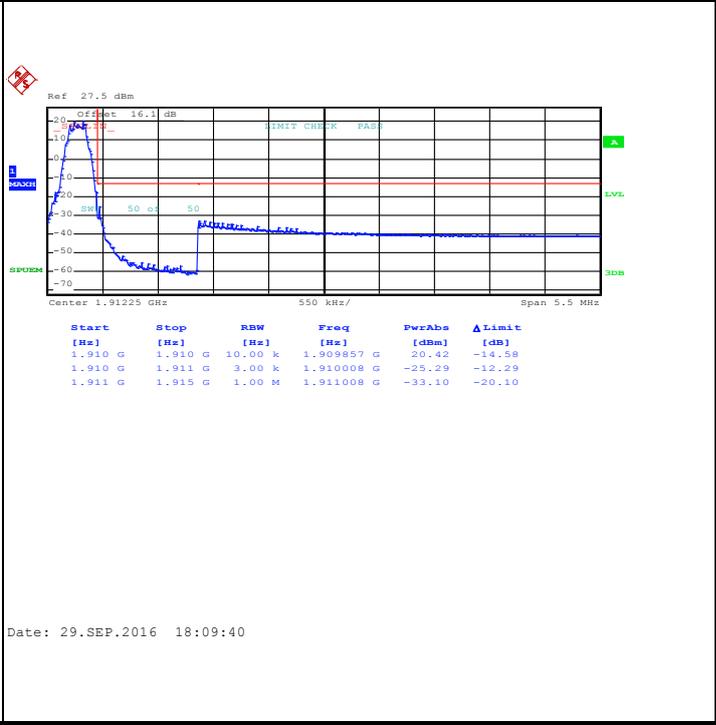
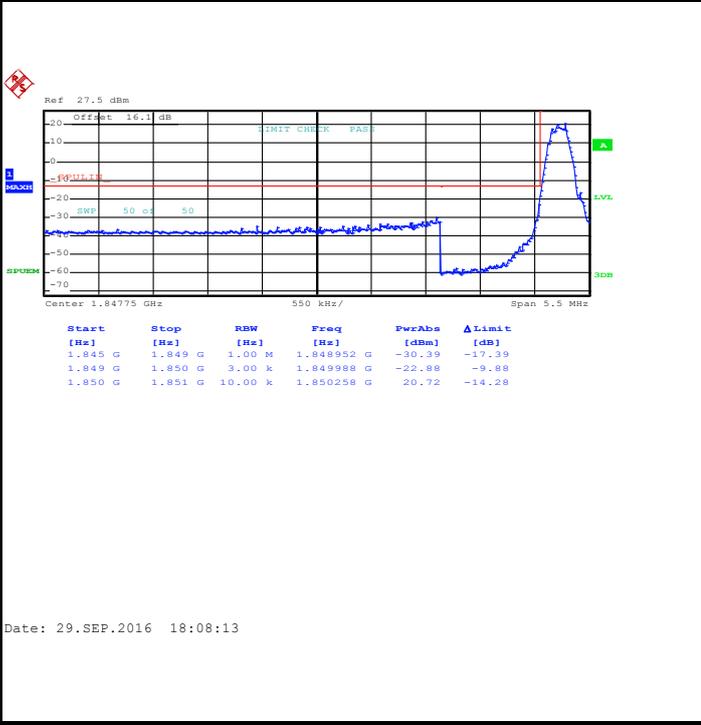




GSM1900 (EDGE class 8)

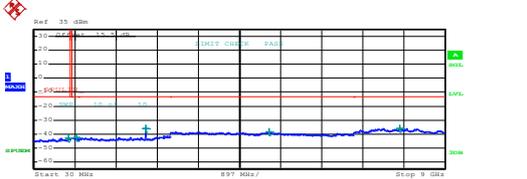
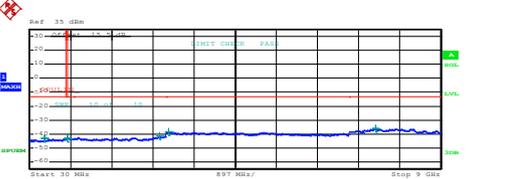
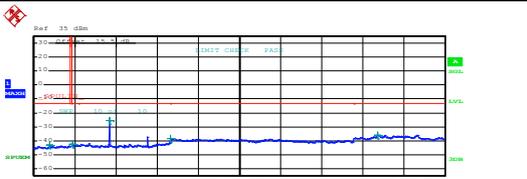
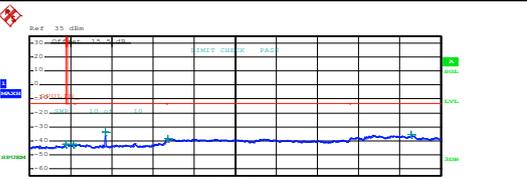
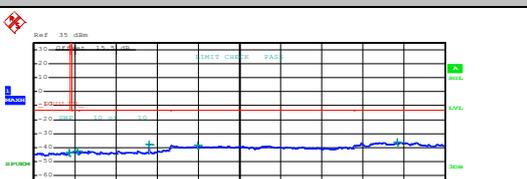
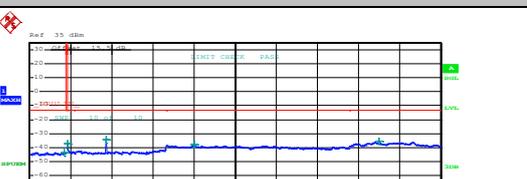
Lowest Band Edge

Highest Band Edge

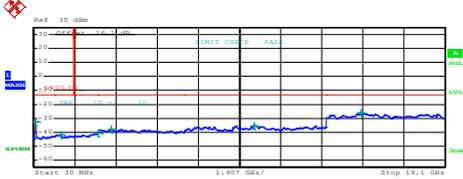
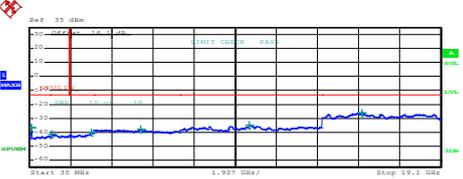
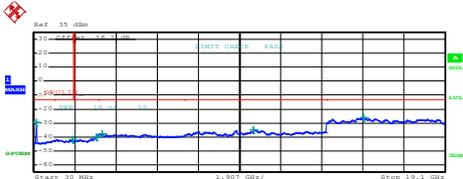
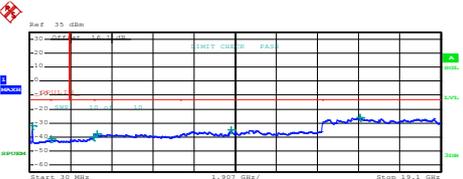
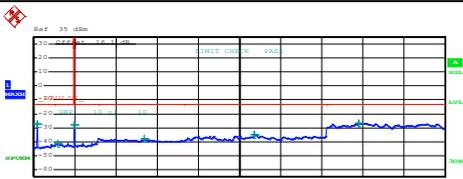
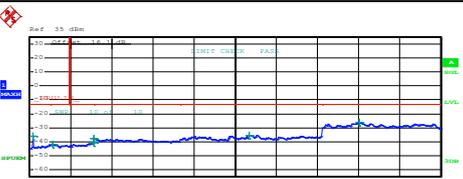




Conducted Spurious Emission

GSM850 (GPRS class 8)	GSM850 (EDGE class 8)																																																																								
Lowest Channel	Lowest Channel																																																																								
 <table border="1" data-bbox="207 660 734 739"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>Power [dBm]</th> <th>Limit [dBm]</th> </tr> </thead> <tbody> <tr> <td>35,000 M</td> <td>820,000 M</td> <td>1,000 M</td> <td>781,245000 M</td> <td>-42.86</td> <td>-29.85</td> </tr> <tr> <td>855,000 M</td> <td>1,000 G</td> <td>1,000 M</td> <td>958,276257 M</td> <td>-42.77</td> <td>-29.77</td> </tr> <tr> <td>1,000 G</td> <td>3,000 G</td> <td>1,000 M</td> <td>2,473000 G</td> <td>-35.96</td> <td>-22.96</td> </tr> <tr> <td>3,000 G</td> <td>7,000 G</td> <td>1,000 M</td> <td>5,153000 G</td> <td>-38.35</td> <td>-25.35</td> </tr> <tr> <td>7,000 G</td> <td>9,000 G</td> <td>1,000 M</td> <td>8,005000 G</td> <td>-36.24</td> <td>-23.24</td> </tr> </tbody> </table> <p>Date: 29.SEP.2016 16:49:40</p>	Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	Power [dBm]	Limit [dBm]	35,000 M	820,000 M	1,000 M	781,245000 M	-42.86	-29.85	855,000 M	1,000 G	1,000 M	958,276257 M	-42.77	-29.77	1,000 G	3,000 G	1,000 M	2,473000 G	-35.96	-22.96	3,000 G	7,000 G	1,000 M	5,153000 G	-38.35	-25.35	7,000 G	9,000 G	1,000 M	8,005000 G	-36.24	-23.24	 <table border="1" data-bbox="861 660 1388 739"> <thead> <tr> <th>Start [Hz]</th> <th>Stop [Hz]</th> <th>RBW [Hz]</th> <th>Freq [Hz]</th> <th>Power [dBm]</th> <th>Limit [dBm]</th> </tr> </thead> <tbody> <tr> <td>35,000 M</td> <td>820,000 M</td> <td>1,000 M</td> <td>352,317500 M</td> <td>-43.54</td> <td>-30.54</td> </tr> <tr> <td>855,000 M</td> <td>1,000 G</td> <td>1,000 M</td> <td>863,013251 M</td> <td>-42.84</td> <td>-29.84</td> </tr> <tr> <td>1,000 G</td> <td>3,000 G</td> <td>1,000 M</td> <td>2,866500 G</td> <td>-41.21</td> <td>-28.21</td> </tr> <tr> <td>3,000 G</td> <td>7,000 G</td> <td>1,000 M</td> <td>3,060000 G</td> <td>-38.60</td> <td>-25.60</td> </tr> <tr> <td>7,000 G</td> <td>9,000 G</td> <td>1,000 M</td> <td>7,589000 G</td> <td>-36.03</td> <td>-23.03</td> </tr> </tbody> </table> <p>Date: 29.SEP.2016 17:19:29</p>	Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	Power [dBm]	Limit [dBm]	35,000 M	820,000 M	1,000 M	352,317500 M	-43.54	-30.54	855,000 M	1,000 G	1,000 M	863,013251 M	-42.84	-29.84	1,000 G	3,000 G	1,000 M	2,866500 G	-41.21	-28.21	3,000 G	7,000 G	1,000 M	3,060000 G	-38.60	-25.60	7,000 G	9,000 G	1,000 M	7,589000 G	-36.03	-23.03
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1,000 G	3,000 G	1,000 M	2,866500 G	-41.21	-28.21																																																																				
3,000 G	7,000 G	1,000 M	3,060000 G	-38.60	-25.60																																																																				
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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	0.0012	0.0024	PASS
40	Normal Voltage	0.0036	0.0012	
30	Normal Voltage	0.0012	0.0024	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0048	0.0036	
0	Normal Voltage	0.0072	0.0024	
-10	Normal Voltage	0.0036	0.0012	
-20	Normal Voltage	0.0012	0.0012	
-30	Normal Voltage	0.0036	0.0000	
20	Maximum Voltage	0.0000	0.0012	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0036	0.0024	

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	0.0011	PASS
40	Normal Voltage	0.0027	0.0005	
30	Normal Voltage	0.0032	0.0005	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0000	0.0011	
0	Normal Voltage	0.0085	0.0016	
-10	Normal Voltage	0.0074	0.0016	
-20	Normal Voltage	0.0096	0.0048	
-30	Normal Voltage	0.0080	0.0021	
20	Maximum Voltage	0.0016	0.0005	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0011	0.0011	

Note:

1. Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.4 V
2. The frequency fundamental emissions stay within the authorized frequency block based.