



A1. GSM

Peak-to-Average Ratio

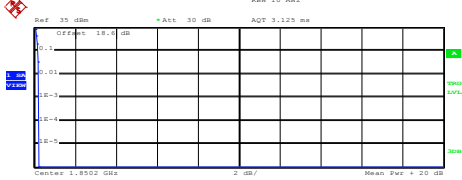
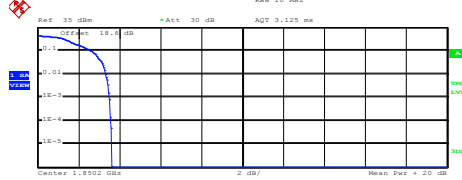
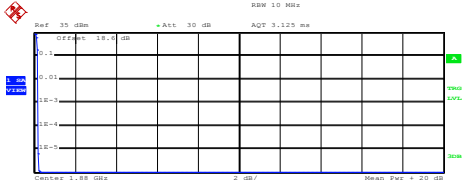
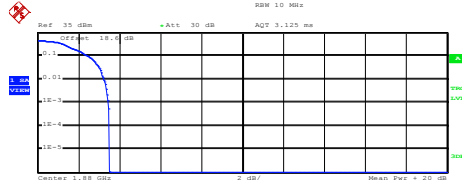
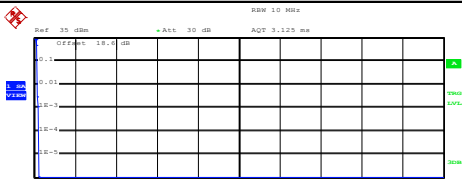
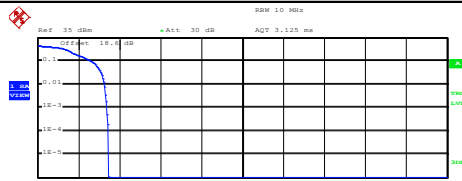
Mode	GSM850		Limit: 13dB
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.24	3.32	PASS
Middle CH	0.24	3.36	
Highest CH	0.20	3.36	

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)	
Lowest Channel		Lowest Channel	

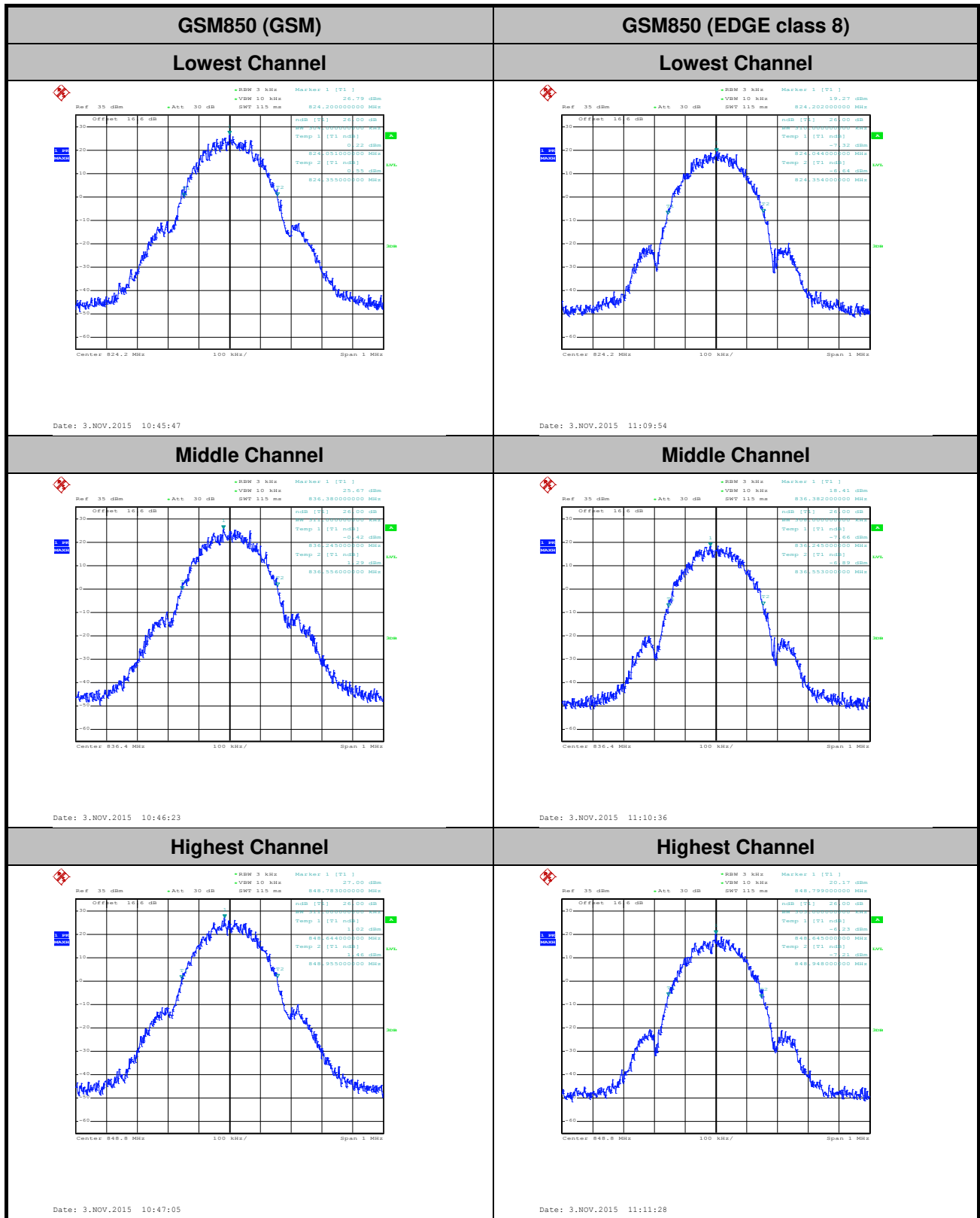


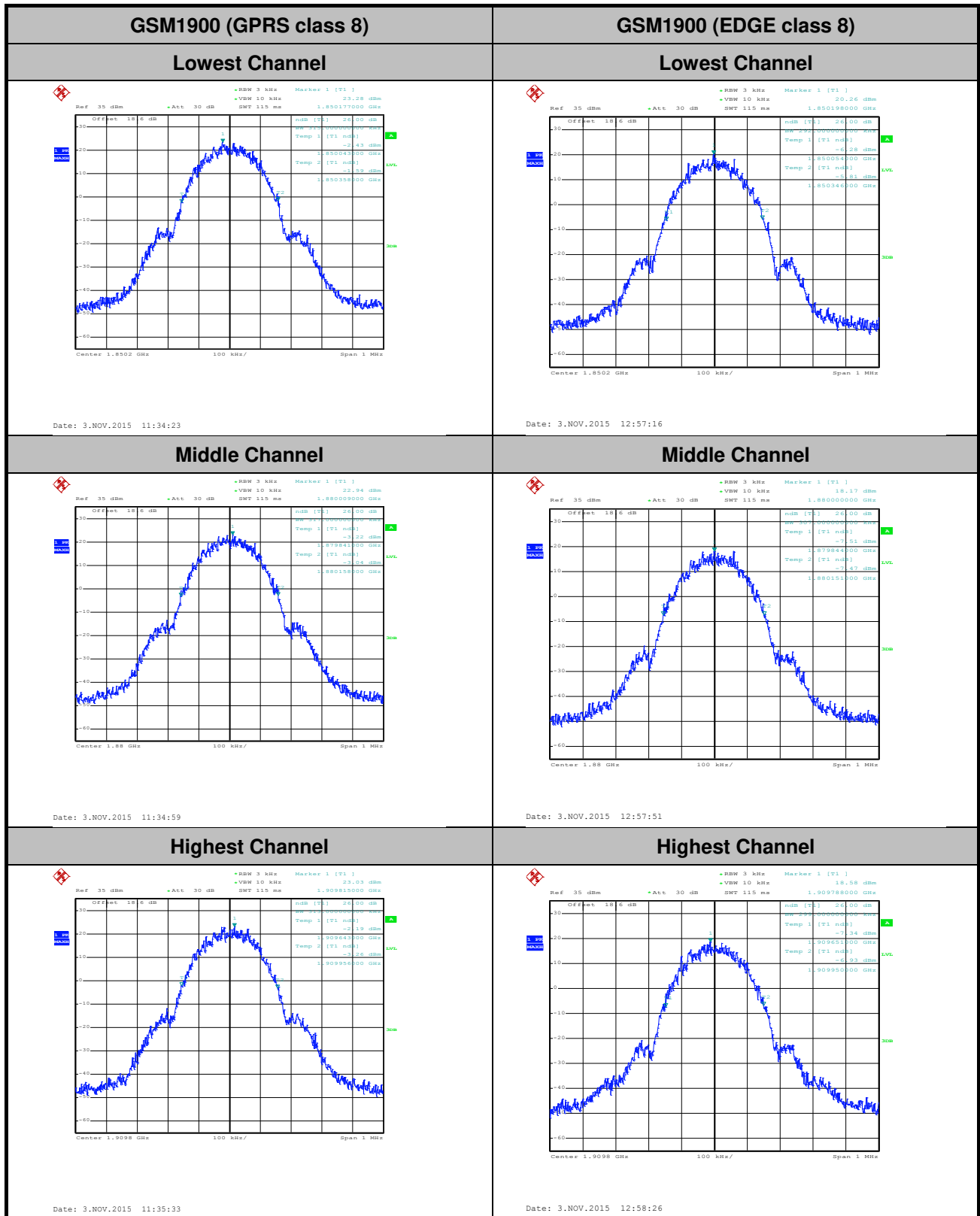
GSM1900 (GPRS class 8)		GSM1900 (EDGE class 8)	
Lowest Channel		Lowest Channel	
 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 30.88 dBm Peak 31.09 dBm Crest 0.21 dB 10 % 0.20 dB 1 % 0.24 dB .1 % 0.24 dB .01 % 0.24 dB Date: 3.NOV.2015 11:46:52		 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 26.49 dBm Peak 30.10 dBm Crest 3.61 dB 10 % 2.64 dB 1 % 3.32 dB .1 % 3.52 dB .01 % 3.56 dB Date: 3.NOV.2015 13:07:25	
Middle Channel		Middle Channel	
 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 30.49 dBm Peak 30.73 dBm Crest 0.25 dB 10 % 0.16 dB 1 % 0.20 dB .1 % 0.20 dB .01 % 0.20 dB Date: 3.NOV.2015 11:47:20		 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 25.46 dBm Peak 28.97 dBm Crest 3.51 dB 10 % 2.48 dB 1 % 3.24 dB .1 % 3.44 dB .01 % 3.52 dB Date: 3.NOV.2015 13:07:42	
Highest Channel		Highest Channel	
 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 30.37 dBm Peak 30.59 dBm Crest 0.23 dB 10 % 0.16 dB 1 % 0.16 dB .1 % 0.20 dB .01 % 0.24 dB Date: 3.NOV.2015 11:47:36		 Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 25.94 dBm Peak 29.39 dBm Crest 3.46 dB 10 % 2.64 dB 1 % 3.28 dB .1 % 3.40 dB .01 % 3.44 dB Date: 3.NOV.2015 13:08:03	

**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

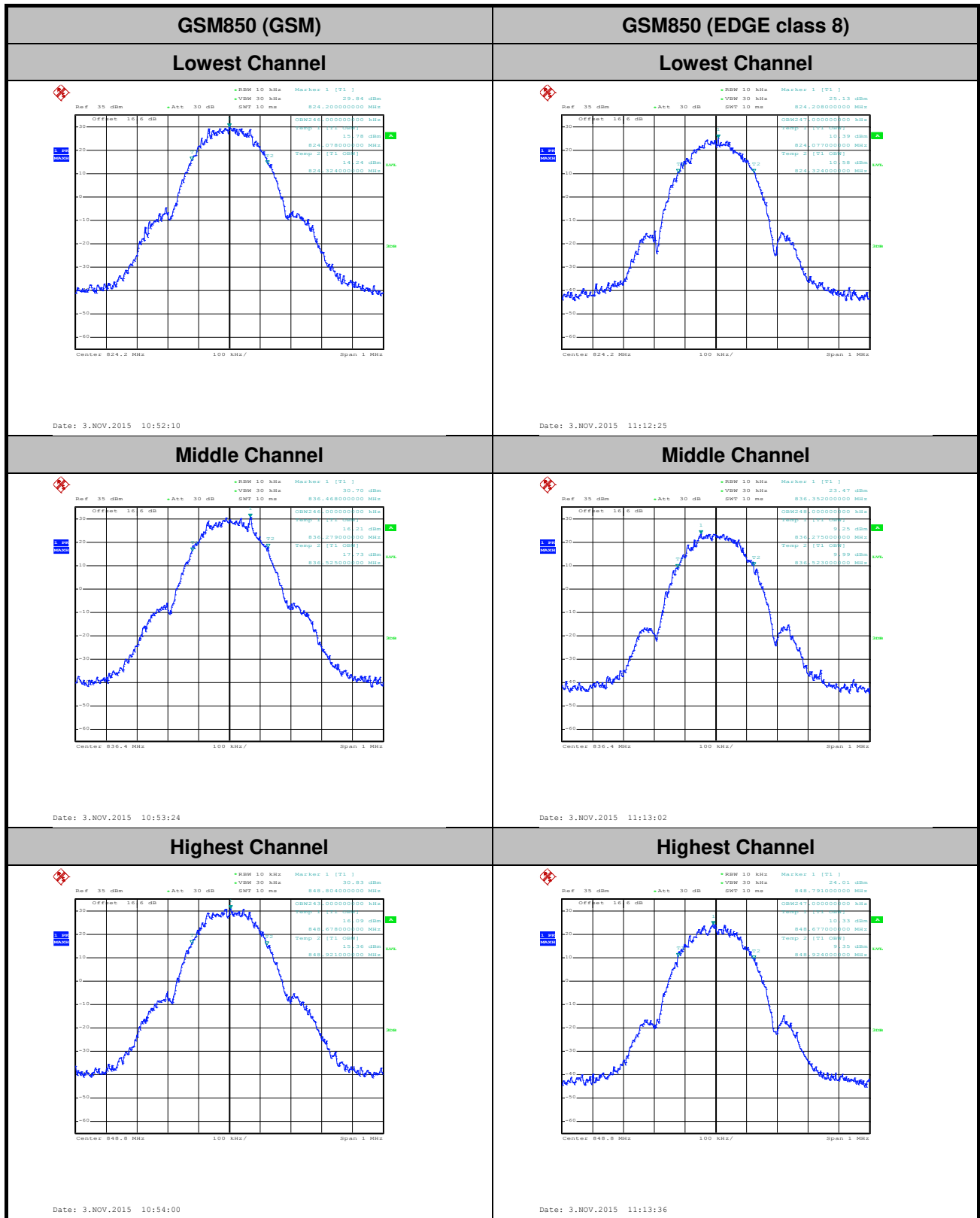




**Occupied Bandwidth**

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

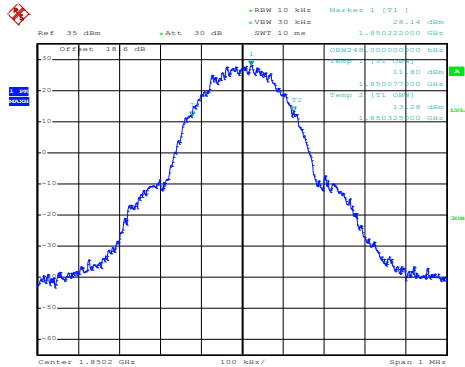
Mode	GSM1900	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.248	0.247
Middle CH	0.243	0.250
Highest CH	0.244	0.249





GSM1900 (GPRS class 8)

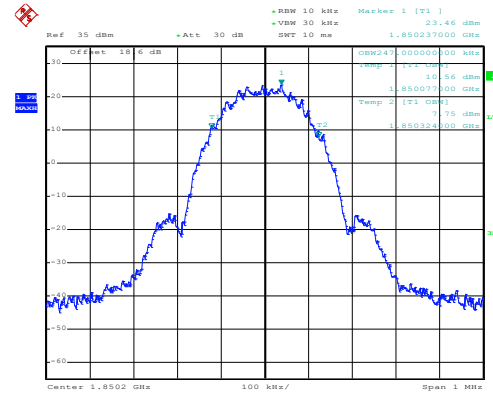
Lowest Channel



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

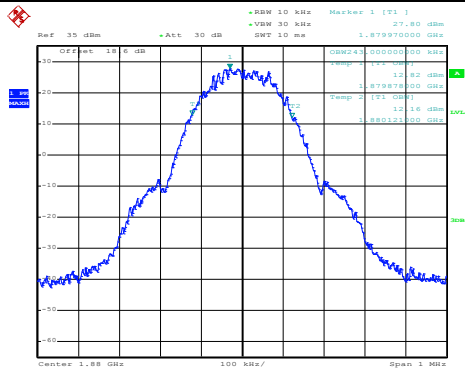
GSM1900 (EDGE class 8)

Lowest Channel



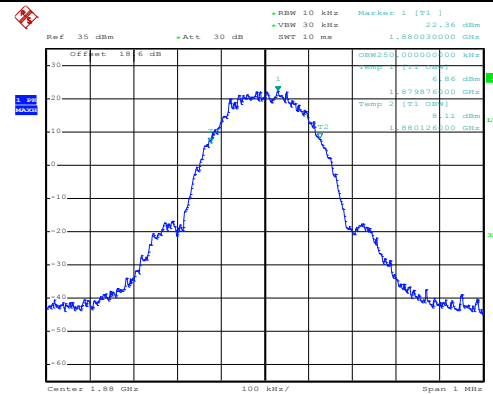
Date: 3.NOV.2015 12:59:30

Middle Channel



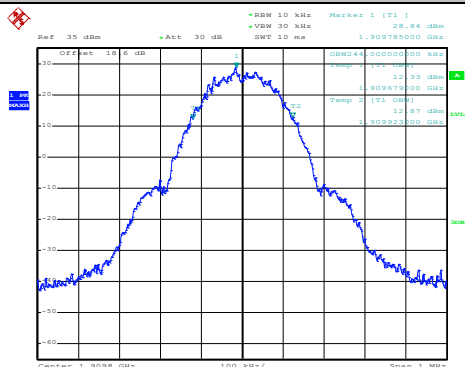
Date: 3.NOV.2015 11:37:35

Middle Channel



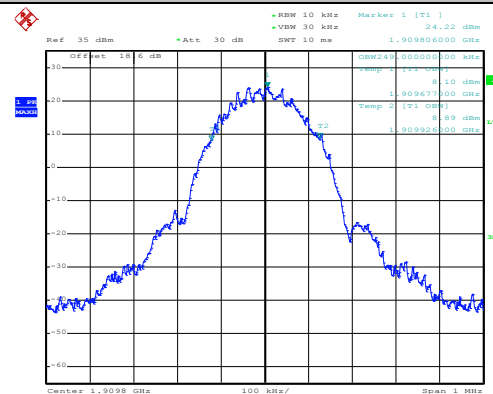
Date: 3.NOV.2015 13:00:04

Highest Channel



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

Highest Channel



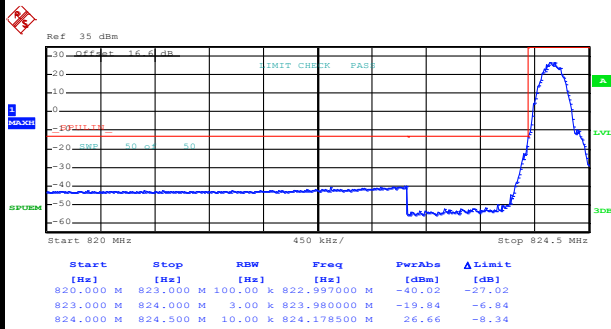
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Conducted Band Edge

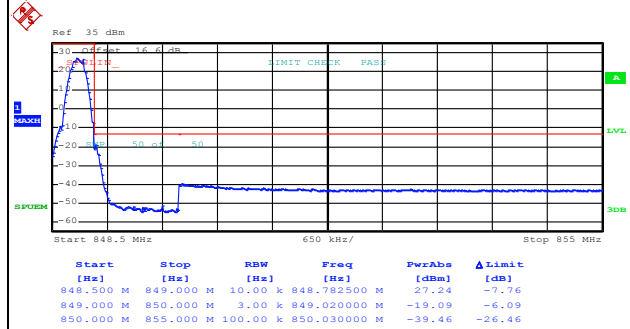
GSM850 (GSM)

Lowest Band Edge



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

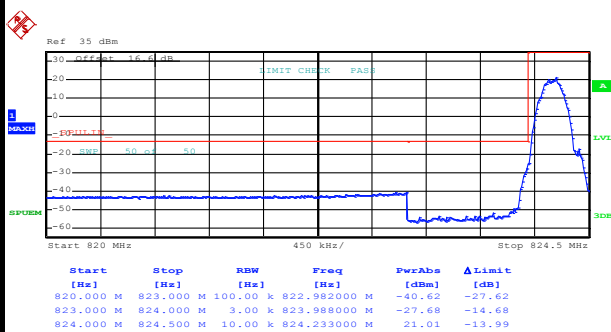
Highest Band Edge



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

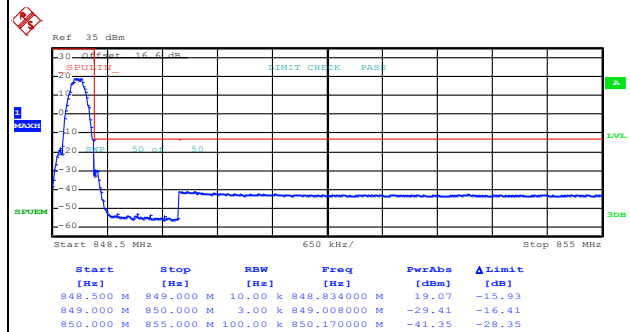
GSM850 (EDGE class 8)

Lowest Band Edge



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

Highest Band Edge

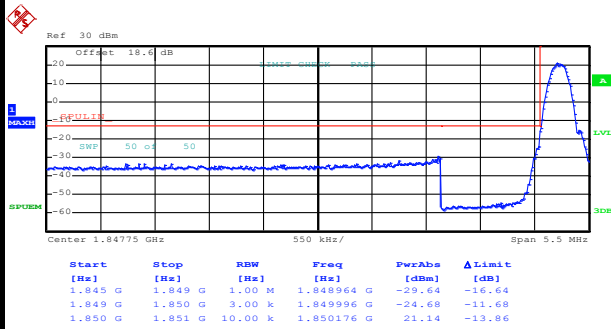


Date: 3.NOV.2015 11:17:42



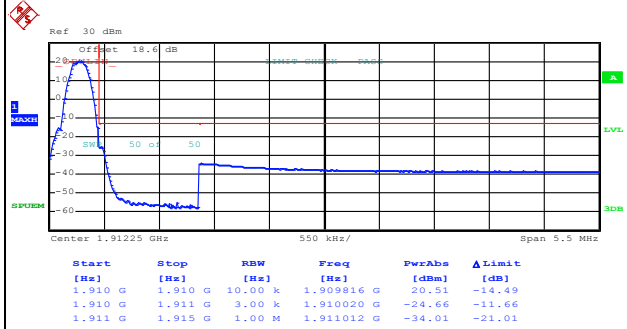
GSM1900 (GPRS class 8)

Lowest Band Edge



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

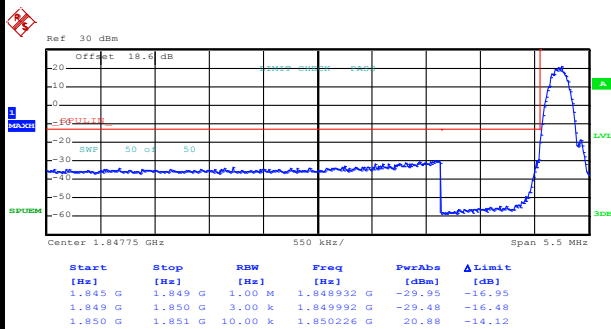
Highest Band Edge



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

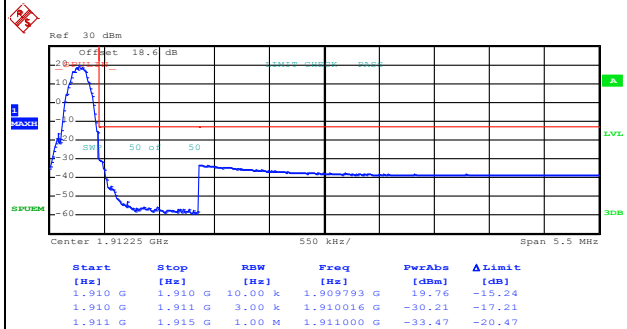
GSM1900 (EDGE class 8)

Lowest Band Edge



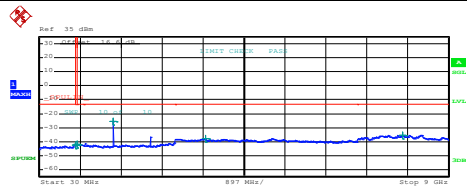
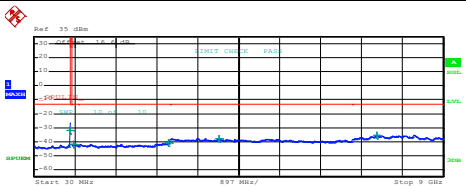
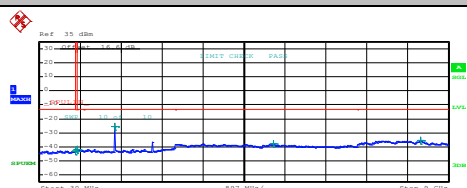
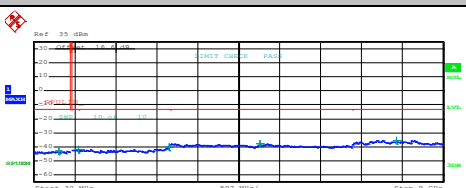
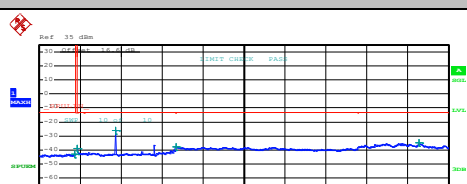
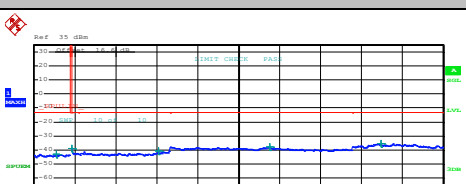
Date: 3.NOV.2015 13:02:16

Highest Band Edge



Date: 3.NOV.2015 13:03:53

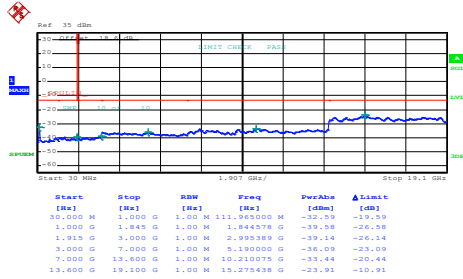
**Conducted Spurious Emission**

GSM850 (GSM)		GSM850 (EDGE class 8)																																																																																					
Lowest Channel		Lowest Channel																																																																																					
<table><tr><th>Start</th><th>Stop</th><th>RBW</th><th>Freq</th><th>PerAbn</th><th>ΔLimit</th></tr><tr><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[dBm]</th><th>[dB]</th></tr><tr><td>30,000 M</td><td>820,000 M</td><td>1,00 M</td><td>817,250000 M</td><td>-42.41</td><td>-29.41</td></tr><tr><td>850,000 M</td><td>1,000 G</td><td>1,00 M</td><td>857,102500 M</td><td>-42.10</td><td>-29.10</td></tr><tr><td>1,000 G</td><td>3,000 G</td><td>1,00 M</td><td>1,648000 G</td><td>-23.36</td><td>-12.36</td></tr><tr><td>3,000 G</td><td>7,000 G</td><td>1,00 M</td><td>3,668000 G</td><td>-37.91</td><td>-24.91</td></tr><tr><td>7,000 G</td><td>9,000 G</td><td>1,00 M</td><td>8,000000 G</td><td>-35.19</td><td>-22.19</td></tr></table> Date: 3.NOV.2015 11:01:40		Start	Stop	RBW	Freq	PerAbn	ΔLimit	[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]	30,000 M	820,000 M	1,00 M	817,250000 M	-42.41	-29.41	850,000 M	1,000 G	1,00 M	857,102500 M	-42.10	-29.10	1,000 G	3,000 G	1,00 M	1,648000 G	-23.36	-12.36	3,000 G	7,000 G	1,00 M	3,668000 G	-37.91	-24.91	7,000 G	9,000 G	1,00 M	8,000000 G	-35.19	-22.19	<table><tr><th>Start</th><th>Stop</th><th>RBW</th><th>Freq</th><th>PerAbn</th><th>ΔLimit</th></tr><tr><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[dBm]</th><th>[dB]</th></tr><tr><td>30,000 M</td><td>820,000 M</td><td>1,00 M</td><td>819,802500 M</td><td>-32.11</td><td>-19.11</td></tr><tr><td>850,000 M</td><td>1,000 G</td><td>1,00 M</td><td>896,470003 M</td><td>-41.84</td><td>-28.84</td></tr><tr><td>1,000 G</td><td>3,000 G</td><td>1,00 M</td><td>2,974000 G</td><td>-40.80</td><td>-27.80</td></tr><tr><td>3,000 G</td><td>7,000 G</td><td>1,00 M</td><td>4,076000 G</td><td>-37.72</td><td>-24.72</td></tr><tr><td>7,000 G</td><td>9,000 G</td><td>1,00 M</td><td>7,540500 G</td><td>-35.18</td><td>-22.18</td></tr></table> Date: 3.NOV.2015 11:19:26		Start	Stop	RBW	Freq	PerAbn	ΔLimit	[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]	30,000 M	820,000 M	1,00 M	819,802500 M	-32.11	-19.11	850,000 M	1,000 G	1,00 M	896,470003 M	-41.84	-28.84	1,000 G	3,000 G	1,00 M	2,974000 G	-40.80	-27.80	3,000 G	7,000 G	1,00 M	4,076000 G	-37.72	-24.72	7,000 G	9,000 G	1,00 M	7,540500 G	-35.18	-22.18
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<table><tr><th>Start</th><th>Stop</th><th>RBW</th><th>Freq</th><th>PerAbn</th><th>ΔLimit</th></tr><tr><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[dBm]</th><th>[dB]</th></tr><tr><td>30,000 M</td><td>820,000 M</td><td>1,00 M</td><td>801,430000 M</td><td>-42.93</td><td>-29.93</td></tr><tr><td>850,000 M</td><td>1,000 G</td><td>1,00 M</td><td>855,472300 M</td><td>-38.79</td><td>-25.79</td></tr><tr><td>1,000 G</td><td>3,000 G</td><td>1,00 M</td><td>1,697000 G</td><td>-26.26</td><td>-13.26</td></tr><tr><td>3,000 G</td><td>7,000 G</td><td>1,00 M</td><td>3,027000 G</td><td>-37.88</td><td>-24.88</td></tr><tr><td>7,000 G</td><td>9,000 G</td><td>1,00 M</td><td>8,358500 G</td><td>-35.00</td><td>-22.00</td></tr></table> Date: 3.NOV.2015 11:03:16		Start	Stop	RBW	Freq	PerAbn	ΔLimit	[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]	30,000 M	820,000 M	1,00 M	801,430000 M	-42.93	-29.93	850,000 M	1,000 G	1,00 M	855,472300 M	-38.79	-25.79	1,000 G	3,000 G	1,00 M	1,697000 G	-26.26	-13.26	3,000 G	7,000 G	1,00 M	3,027000 G	-37.88	-24.88	7,000 G	9,000 G	1,00 M	8,358500 G	-35.00	-22.00	<table><tr><th>Start</th><th>Stop</th><th>RBW</th><th>Freq</th><th>PerAbn</th><th>ΔLimit</th></tr><tr><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[Hz]</th><th>[dBm]</th><th>[dB]</th></tr><tr><td>30,000 M</td><td>820,000 M</td><td>1,00 M</td><td>812,452500 M</td><td>-43.31</td><td>-30.31</td></tr><tr><td>850,000 M</td><td>1,000 G</td><td>1,00 M</td><td>855,072500 M</td><td>-38.82</td><td>-25.82</td></tr><tr><td>1,000 G</td><td>3,000 G</td><td>1,00 M</td><td>2,750000 G</td><td>-40.67</td><td>-27.67</td></tr><tr><td>3,000 G</td><td>7,000 G</td><td>1,00 M</td><td>5,191000 G</td><td>-37.96</td><td>-24.96</td></tr><tr><td>7,000 G</td><td>9,000 G</td><td>1,00 M</td><td>7,637500 G</td><td>-35.59</td><td>-22.59</td></tr></table> Date: 3.NOV.2015 11:20:52		Start	Stop	RBW	Freq	PerAbn	ΔLimit	[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]	30,000 M	820,000 M	1,00 M	812,452500 M	-43.31	-30.31	850,000 M	1,000 G	1,00 M	855,072500 M	-38.82	-25.82	1,000 G	3,000 G	1,00 M	2,750000 G	-40.67	-27.67	3,000 G	7,000 G	1,00 M	5,191000 G	-37.96	-24.96	7,000 G	9,000 G	1,00 M	7,637500 G	-35.59	-22.59
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GSM1900 (GPRS class 8)

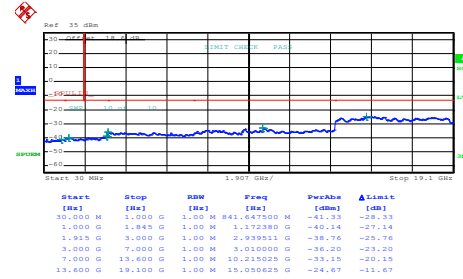
Lowest Channel



Date: 3.NOV.2015 11:44:43

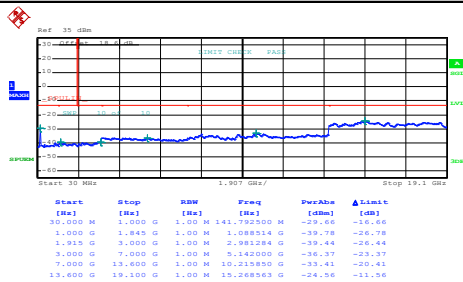
GSM1900 (EDGE class 8)

Lowest Channel



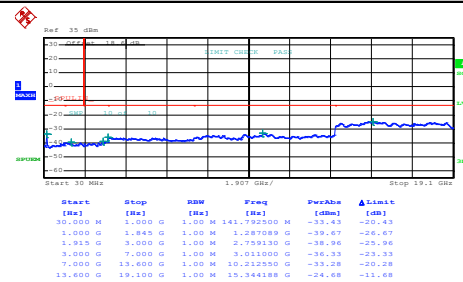
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Middle Channel



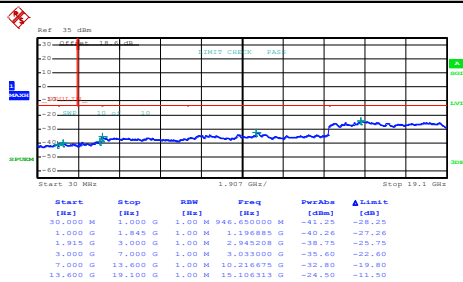
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Middle Channel



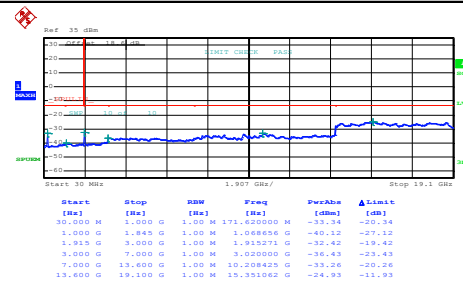
Date: 3.NOV.2015 13:05:45

Highest Channel



Date: 3.NOV.2015 11:46:10

Highest Channel



Date: 3.NOV.2015 13:06:22

**Frequency Stability**

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
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.