

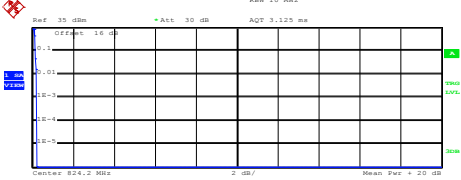
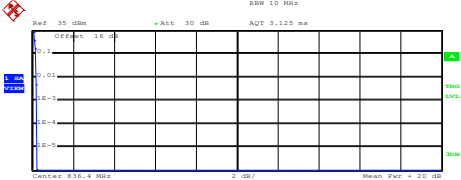
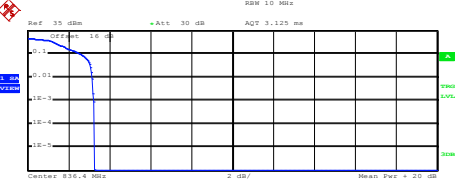
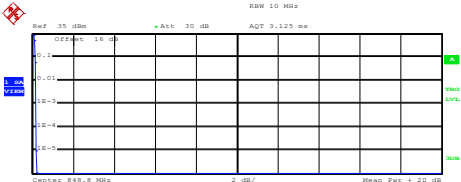
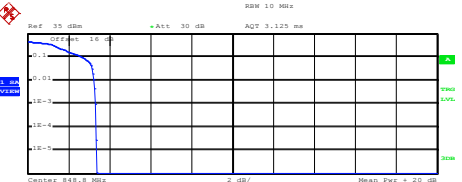


A1. GSM

Peak-to-Average Ratio

Mode	GSM850		Limit: 13dB
Mod.	GPRS class 8	EDGE class 8	Result
Lowest CH	0.24	3.20	PASS
Middle CH	0.24	3.24	
Highest CH	0.20	3.32	

Mode	GSM1900		Limit: 13dB
Mod.	GPRS class 8	EDGE class 8	Result
Lowest CH	0.24	3.32	PASS
Middle CH	0.20	3.24	
Highest CH	0.24	3.40	

GSM850 (GPRS class 8)	GSM850 (EDGE class 8)
Lowest Channel	Lowest Channel
 Ref: 35 dBm Att: 30 dB AQT: 3.125 ms Center: 824.2 MHz 2 dB/ Mean: 31.29 dBm Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 31.29 dBm Peak: 31.51 dBm Crest: 0.22 dB 10 %: 0.16 dB 1 %: 0.20 dB .1 %: 0.24 dB .01 %: 0.24 dB Date: 4.JAN.2016 17:13:00	 Ref: 35 dBm Att: 30 dB AQT: 3.125 ms Center: 824.2 MHz 2 dB/ Mean: 25.25 dBm Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 25.25 dBm Peak: 28.55 dBm Crest: 3.30 dB 10 %: 2.56 dB 1 %: 3.12 dB .1 %: 3.20 dB .01 %: 3.24 dB Date: 4.JAN.2016 17:23:42
Middle Channel	Middle Channel
 Ref: 35 dBm Att: 30 dB AQT: 3.125 ms Center: 836.4 MHz 2 dB/ Mean: 32.16 dBm Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 32.16 dBm Peak: 32.36 dBm Crest: 0.20 dB 10 %: 0.16 dB 1 %: 0.20 dB .1 %: 0.24 dB .01 %: 0.24 dB Date: 4.JAN.2016 17:13:13	 Ref: 35 dBm Att: 30 dB AQT: 3.125 ms Center: 836.4 MHz 2 dB/ Mean: 26.06 dBm Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 26.06 dBm Peak: 29.33 dBm Crest: 3.26 dB 10 %: 2.60 dB 1 %: 3.16 dB .1 %: 3.24 dB .01 %: 3.28 dB Date: 4.JAN.2016 17:23:56
Highest Channel	Highest Channel
 Ref: 35 dBm Att: 30 dB AQT: 3.125 ms Center: 848.8 MHz 2 dB/ Mean: 32.97 dBm Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 32.97 dBm Peak: 33.21 dBm Crest: 0.24 dB 10 %: 0.16 dB 1 %: 0.20 dB .1 %: 0.20 dB .01 %: 0.20 dB Date: 4.JAN.2016 17:13:26	 Ref: 35 dBm Att: 30 dB AQT: 3.125 ms Center: 848.8 MHz 2 dB/ Mean: 26.78 dBm Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 26.78 dBm Peak: 30.17 dBm Crest: 3.39 dB 10 %: 2.68 dB 1 %: 3.24 dB .1 %: 3.32 dB .01 %: 3.36 dB Date: 4.JAN.2016 17:24:09

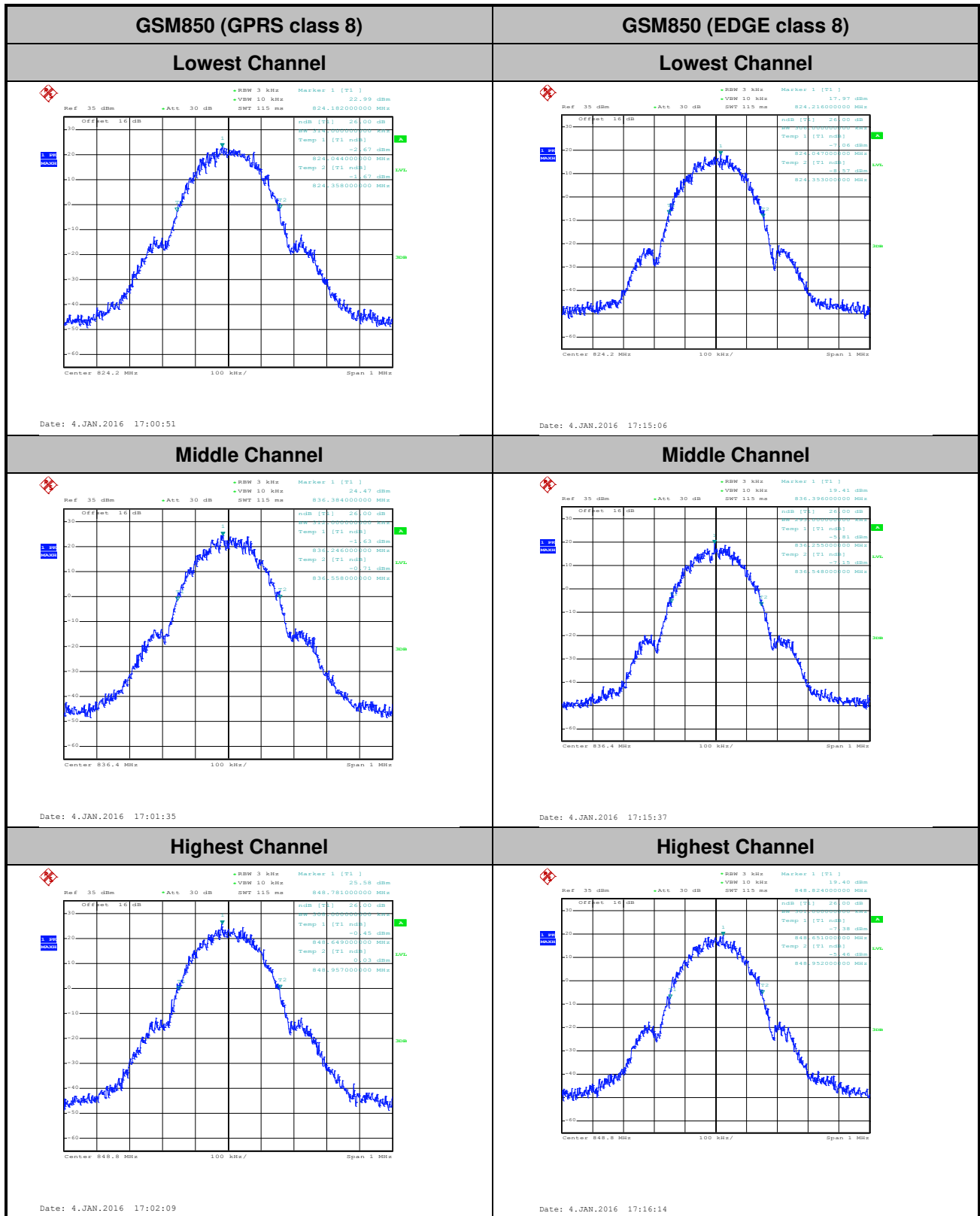


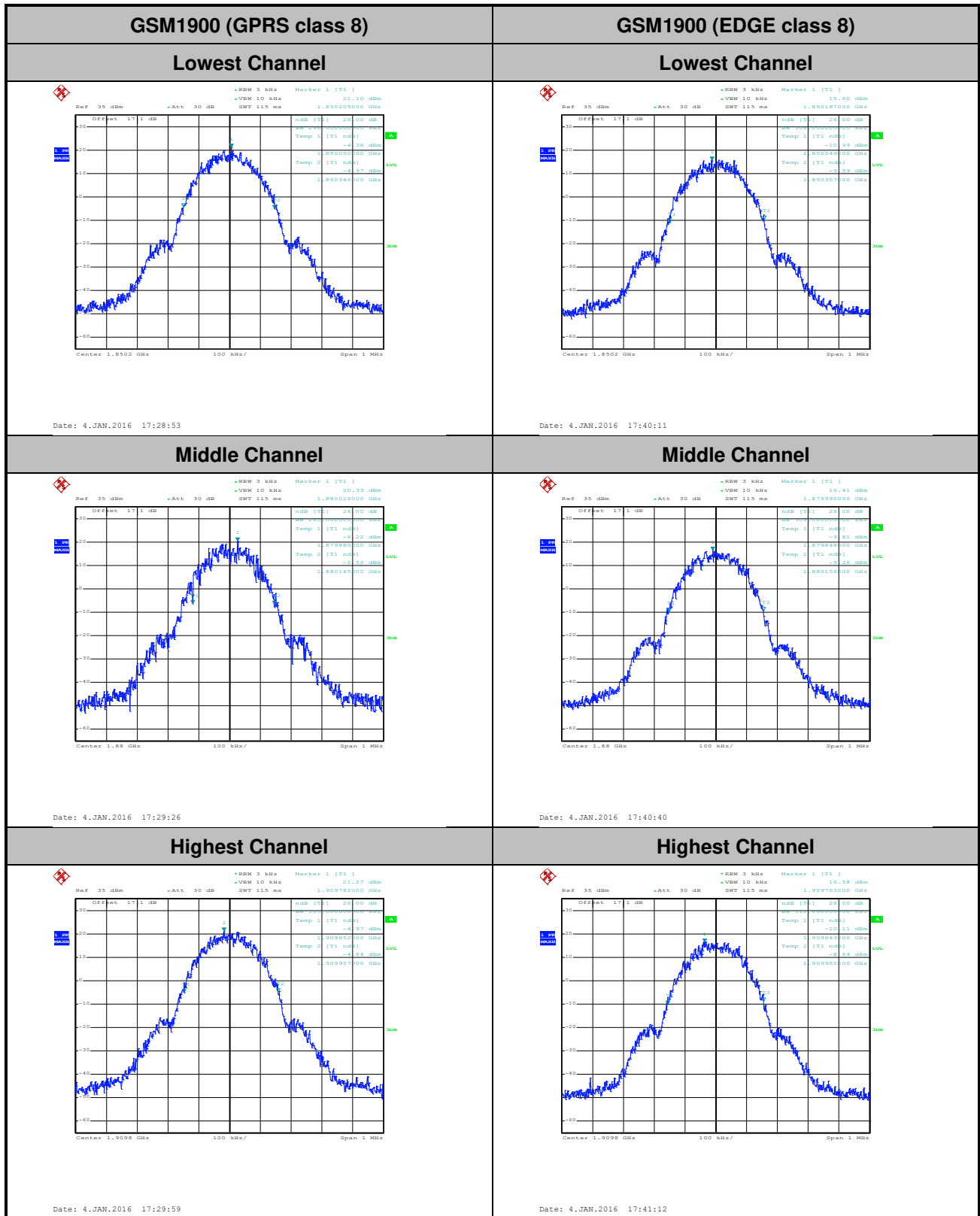
GSM1900 (GPRS class 8)		GSM1900 (EDGE class 8)	
Lowest Channel		Lowest Channel	
Ref: 35 dBm Offset: 17.1 dB Att: 30 dB AGT: 3.125 ms Center: 1.8502 GHz 2 dB/ Mean Pwr: +20 dB 100% 10% 1% 0.1% 0.01% Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 27.48 dBm Peak 27.70 dBm Crest 0.22 dB 10 %0.16 dB 1 %0.20 dB .1 %0.24 dB .01 %0.24 dB		Ref: 35 dBm Offset: 17.1 dB Att: 30 dB AGT: 3.125 ms Center: 1.8502 GHz 2 dB/ Mean Pwr: +20 dB 100% 10% 1% 0.1% 0.01% Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 23.71 dBm Peak 27.07 dBm Crest 3.35 dB 10 %2.68 dB 1 %3.24 dB .1 %3.32 dB .01 %3.36 dB	
Date: 4.JAN.2016 17:38:35		Date: 4.JAN.2016 17:49:04	
Middle Channel		Middle Channel	
Ref: 35 dBm Offset: 17.1 dB Att: 30 dB AGT: 3.125 ms Center: 1.88 GHz 2 dB/ Mean Pwr: +20 dB 100% 10% 1% 0.1% 0.01% Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 28.22 dBm Peak 28.41 dBm Crest 0.19 dB 10 %0.16 dB 1 %0.20 dB .1 %0.20 dB .01 %0.20 dB		Ref: 35 dBm Offset: 17.1 dB Att: 30 dB AGT: 3.125 ms Center: 1.88 GHz 2 dB/ Mean Pwr: +20 dB 100% 10% 1% 0.1% 0.01% Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.52 dBm Peak 27.77 dBm Crest 3.26 dB 10 %2.64 dB 1 %3.16 dB .1 %3.24 dB .01 %3.28 dB	
Date: 4.JAN.2016 17:38:45		Date: 4.JAN.2016 17:49:19	
Highest Channel		Highest Channel	
Ref: 35 dBm Offset: 17.1 dB Att: 30 dB AGT: 3.125 ms Center: 1.9098 GHz 2 dB/ Mean Pwr: +20 dB 100% 10% 1% 0.1% 0.01% Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 28.97 dBm Peak 29.18 dBm Crest 0.22 dB 10 %0.16 dB 1 %0.20 dB .1 %0.24 dB .01 %0.24 dB		Ref: 35 dBm Offset: 17.1 dB Att: 30 dB AGT: 3.125 ms Center: 1.9098 GHz 2 dB/ Mean Pwr: +20 dB 100% 10% 1% 0.1% 0.01% Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 25.14 dBm Peak 28.55 dBm Crest 3.41 dB 10 %2.72 dB 1 %3.32 dB .1 %3.40 dB .01 %3.44 dB	
Date: 4.JAN.2016 17:38:57		Date: 4.JAN.2016 17:49:32	

**26dB Bandwidth**

Mode	GSM850	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.314	0.306
Middle CH	0.312	0.293
Highest CH	0.308	0.301

Mode	GSM1900	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.296	0.308
Middle CH	0.265	0.308
Highest CH	0.305	0.312

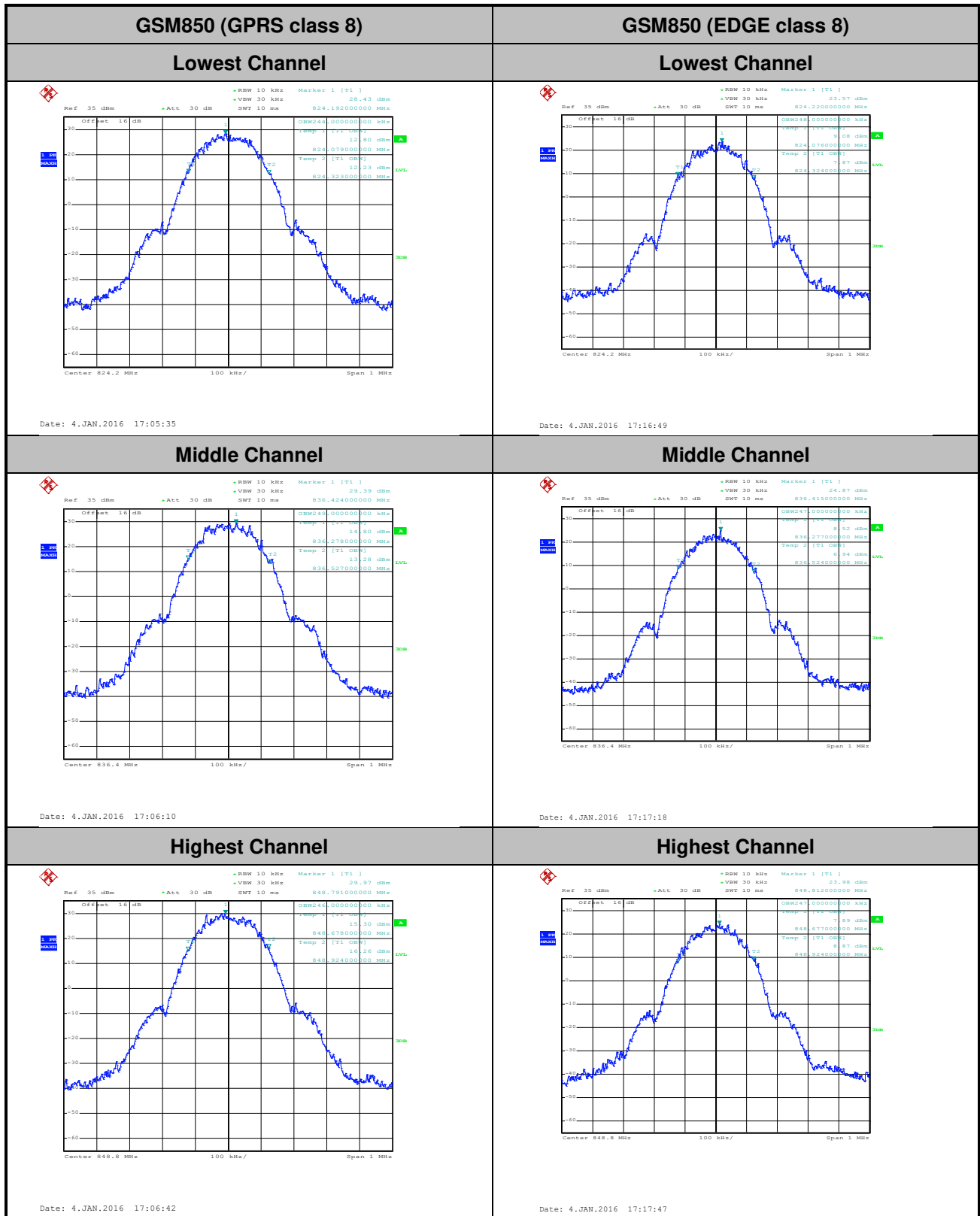


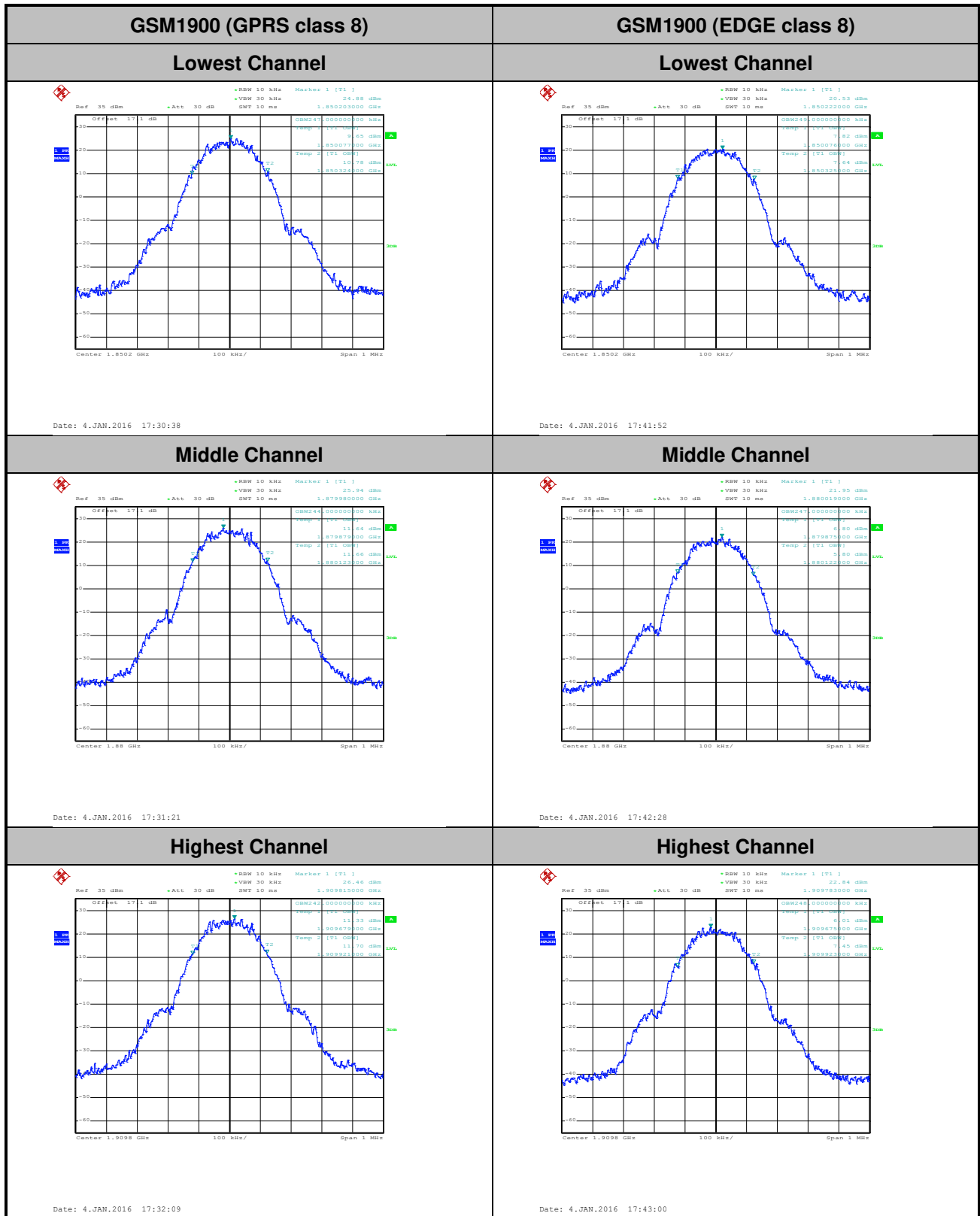


Occupied Bandwidth

Mode	GSM850	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.244	0.248
Middle CH	0.249	0.247
Highest CH	0.246	0.247

Mode	GSM1900	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.247	0.249
Middle CH	0.244	0.247
Highest CH	0.242	0.248



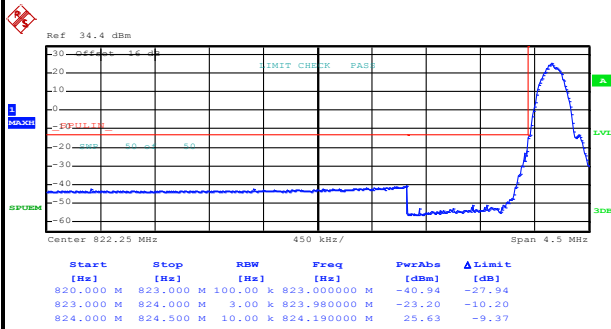




Conducted Band Edge

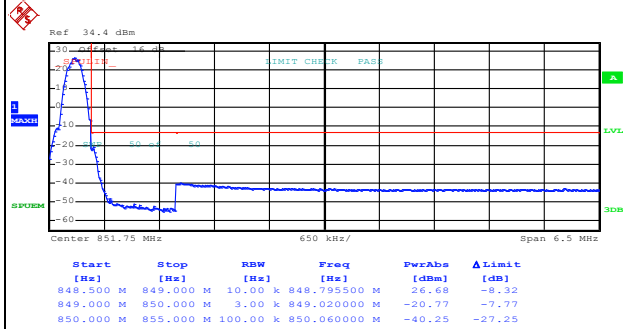
GSM850 (GPRS class 8)

Lowest Band Edge



Date: 4.JAN.2016 17:08:15

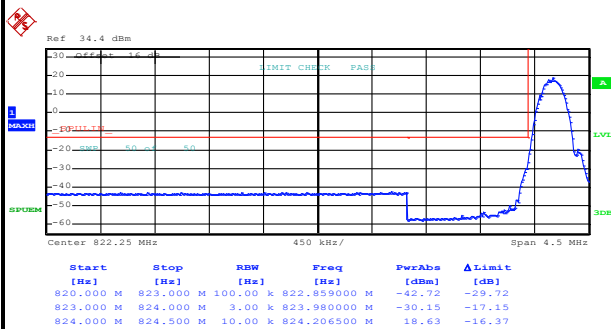
Highest Band Edge



Date: 4.JAN.2016 17:09:46

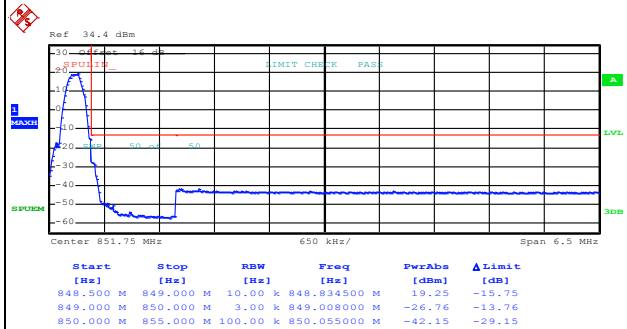
GSM850 (EDGE class 8)

Lowest Band Edge



Date: 4.JAN.2016 17:19:24

Highest Band Edge

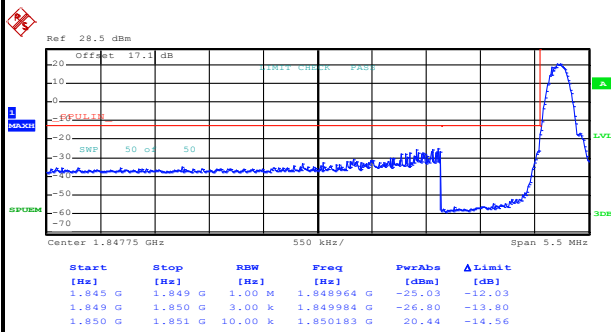


Date: 4.JAN.2016 17:20:53



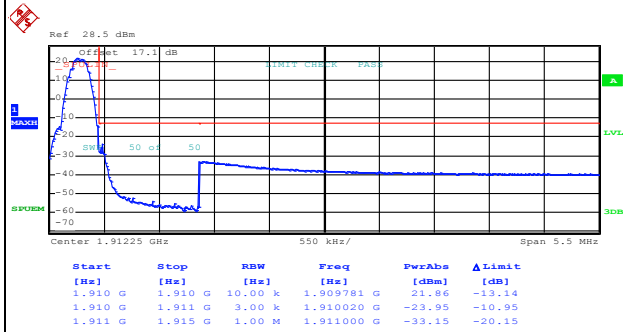
GSM1900 (GPRS class 8)

Lowest Band Edge



Date: 4.JAN.2016 17:33:59

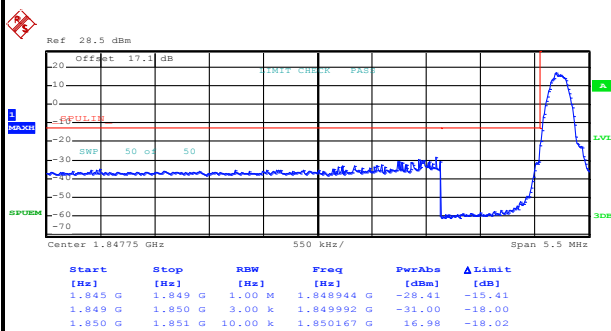
Highest Band Edge



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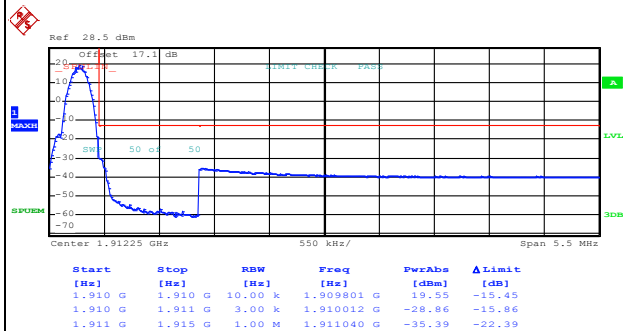
GSM1900 (EDGE class 8)

Lowest Band Edge



Date: 4.JAN.2016 17:44:36

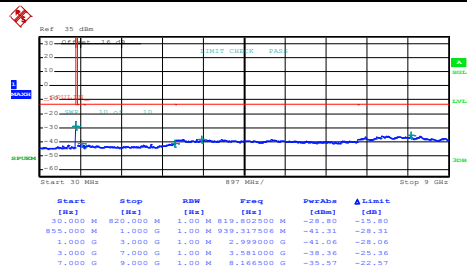
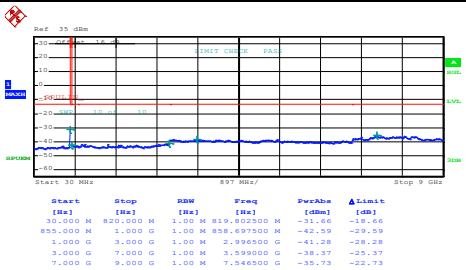
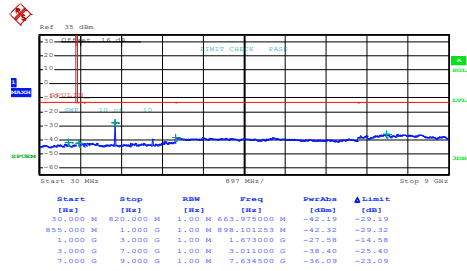
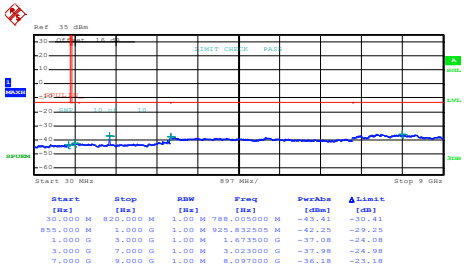
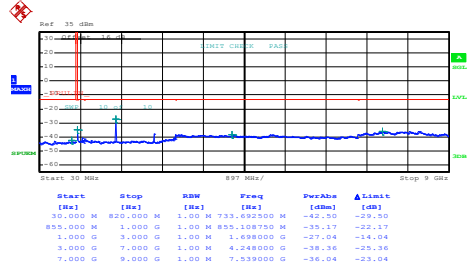
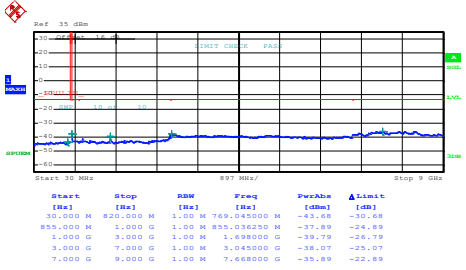
Highest Band Edge

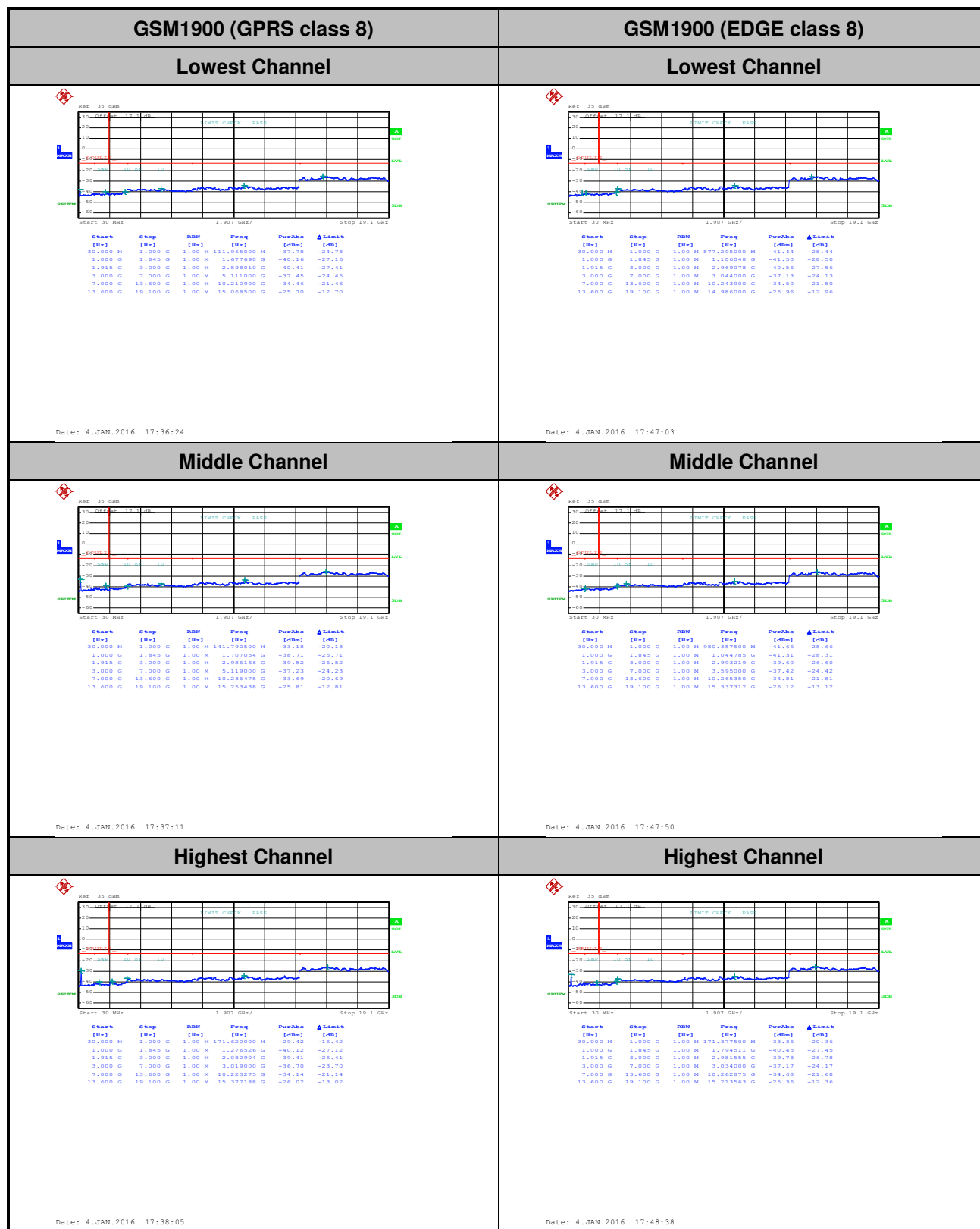


Date: 4.JAN.2016 17:46:06



Conducted Spurious Emission

GSM850 (GPRS class 8)		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>[MHz]</th><th>[MHz]</th><th>[Hz]</th><th>[MHz]</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>-28.80</td><td>-15.80</td></tr><tr><td>850.000 M</td><td>1.000 G</td><td>1.00 M</td><td>939.317500 M</td><td>-41.31</td><td>-28.31</td></tr><tr><td>1.000 G</td><td>3.000 G</td><td>1.00 M</td><td>2.999000 G</td><td>-41.06</td><td>-28.06</td></tr><tr><td>3.000 G</td><td>7.000 G</td><td>1.00 M</td><td>3.581000 G</td><td>-38.36</td><td>-25.36</td></tr><tr><td>7.000 G</td><td>9.000 G</td><td>1.00 M</td><td>8.166500 G</td><td>-35.57</td><td>-22.57</td></tr></table> Date: 4.JAN.2016 17:10:45		Start	Stop	RBW	Freq	PerAbn	ΔLimit	[MHz]	[MHz]	[Hz]	[MHz]	[dBm]	[dB]	30.000 M	820.000 M	1.00 M	819.802500 M	-28.80	-15.80	850.000 M	1.000 G	1.00 M	939.317500 M	-41.31	-28.31	1.000 G	3.000 G	1.00 M	2.999000 G	-41.06	-28.06	3.000 G	7.000 G	1.00 M	3.581000 G	-38.36	-25.36	7.000 G	9.000 G	1.00 M	8.166500 G	-35.57	-22.57	 <table><tr><th>Start</th><th>Stop</th><th>RBW</th><th>Freq</th><th>PerAbn</th><th>ΔLimit</th></tr><tr><th>[MHz]</th><th>[MHz]</th><th>[Hz]</th><th>[MHz]</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>-31.66</td><td>-18.66</td></tr><tr><td>850.000 M</td><td>1.000 G</td><td>1.00 M</td><td>939.317500 M</td><td>-42.59</td><td>-29.59</td></tr><tr><td>1.000 G</td><td>3.000 G</td><td>1.00 M</td><td>2.999000 G</td><td>-41.28</td><td>-28.28</td></tr><tr><td>3.000 G</td><td>7.000 G</td><td>1.00 M</td><td>3.599000 G</td><td>-38.37</td><td>-25.37</td></tr><tr><td>7.000 G</td><td>9.000 G</td><td>1.00 M</td><td>7.546500 G</td><td>-35.73</td><td>-22.73</td></tr></table> Date: 4.JAN.2016 17:21:47		Start	Stop	RBW	Freq	PerAbn	ΔLimit	[MHz]	[MHz]	[Hz]	[MHz]	[dBm]	[dB]	30.000 M	820.000 M	1.00 M	819.802500 M	-31.66	-18.66	850.000 M	1.000 G	1.00 M	939.317500 M	-42.59	-29.59	1.000 G	3.000 G	1.00 M	2.999000 G	-41.28	-28.28	3.000 G	7.000 G	1.00 M	3.599000 G	-38.37	-25.37	7.000 G	9.000 G	1.00 M	7.546500 G	-35.73	-22.73
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Highest Channel		Highest Channel																																																																																					
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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	0.0765	0.0956	PASS
40	Normal Voltage	0.0143	0.0060	
30	Normal Voltage	0.0813	0.0909	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0885	0.0096	
0	Normal Voltage	0.0132	0.0012	
-10	Normal Voltage	0.0036	0.1184	
-20	Normal Voltage	0.0096	0.0897	
-30	Normal Voltage	0.0801	0.1016	
20	Maximum Voltage	0.0024	0.0000	
20	Normal Voltage	0.0729	0.0933	
20	Battery End Point	0.0789	0.0980	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.2 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



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	0.0016	0.0713	PASS
40	Normal Voltage	0.0011	0.0612	
30	Normal Voltage	0.0138	0.0638	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0043	0.0622	
0	Normal Voltage	0.0117	0.0872	
-10	Normal Voltage	0.0170	0.0761	
-20	Normal Voltage	0.0622	0.0676	
-30	Normal Voltage	0.0005	0.0617	
20	Maximum Voltage	0.0080	0.0021	
20	Normal Voltage	0.0059	0.0612	
20	Battery End Point	0.0048	0.0644	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.2 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.