



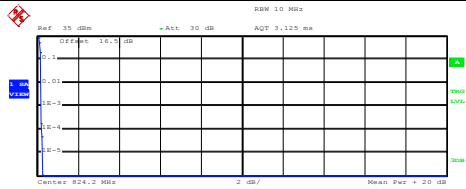
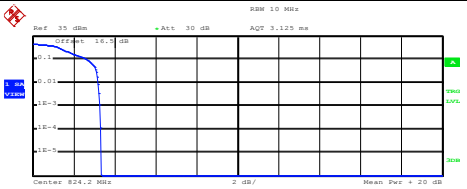
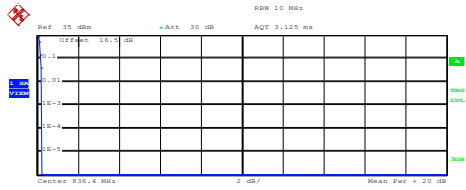
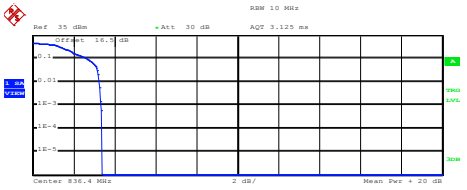
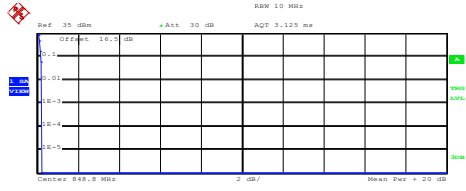
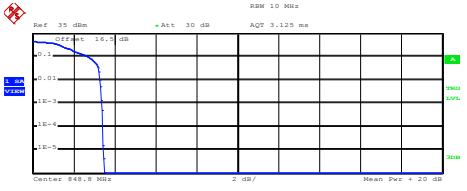
A1. GSM

Peak-to-Average Ratio

Mode	GSM850		Limit: 13dB
Mod.	GPRS class 8	EDGE class 8	Result
Lowest CH	0.20	3.28	PASS
Middle CH	0.24	3.36	
Highest CH	0.24	3.36	

Mode	GSM1900		Limit: 13dB
Mod.	GPRS class 8	EDGE class 8	Result
Lowest CH	0.24	3.24	PASS
Middle CH	0.20	3.04	
Highest CH	0.24	3.16	



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 Per: +20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 32.10 dBm Peak 32.36 dBm Crest 0.25 dB 10 % 0.20 dB 1 % 0.20 dB .1 % 0.20 dB .01 % 0.24 dB Date: 22.MAR.2016 10:04:12		 Ref: 35 dBm Att: 30 dB AQT: 3.125 ms Center: 824.2 MHz 2 dB/ Mean Per: +20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 26.36 dBm Peak 29.68 dBm Crest 3.32 dB 10 % 2.68 dB 1 % 3.20 dB .1 % 3.28 dB .01 % 3.32 dB Date: 22.MAR.2016 10:29:29	
Middle Channel		Middle Channel	
 Ref: 35 dBm Att: 30 dB AQT: 3.125 ms Center: 835.4 MHz 2 dB/ Mean Per: +20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 31.77 dBm Peak 32.01 dBm Crest 0.24 dB 10 % 0.16 dB 1 % 0.24 dB .1 % 0.24 dB .01 % 0.24 dB Date: 22.MAR.2016 10:04:37		 Ref: 35 dBm Att: 30 dB AQT: 3.125 ms Center: 835.4 MHz 2 dB/ Mean Per: +20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 25.94 dBm Peak 29.33 dBm Crest 3.38 dB 10 % 2.68 dB 1 % 3.24 dB .1 % 3.36 dB .01 % 3.40 dB Date: 22.MAR.2016 10:29:46	
Highest Channel		Highest Channel	
 Ref: 35 dBm Att: 30 dB AQT: 3.125 ms Center: 848.8 MHz 2 dB/ Mean Per: +20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 31.64 dBm Peak 31.86 dBm Crest 0.22 dB 10 % 0.20 dB 1 % 0.24 dB .1 % 0.24 dB .01 % 0.24 dB Date: 22.MAR.2016 10:04:54		 Ref: 35 dBm Att: 30 dB AQT: 3.125 ms Center: 848.8 MHz 2 dB/ Mean Per: +20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 25.77 dBm Peak 29.25 dBm Crest 3.49 dB 10 % 2.72 dB 1 % 3.28 dB .1 % 3.36 dB .01 % 3.44 dB Date: 22.MAR.2016 10:30:10	

GSM1900 (GPRS class 8)

Lowest Channel

Ref: 35 dBm, Att: 30 dB, AGT: 3.125 ms

Center 1.8552 GHz

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean: 28.61 dBm
Peak: 28.83 dBm
Crest: 0.22 dB

10 %: 0.16 dB
1 %: 0.24 dB
.1 %: 0.24 dB
.01 %: 0.24 dB

Date: 22.MAR.2016 10:56:47

GSM1900 (EDGE class 8)

Lowest Channel

Ref: 35 dBm, Att: 30 dB, AGT: 3.125 ms

Center 1.8552 GHz

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean: 24.48 dBm
Peak: 27.77 dBm
Crest: 3.30 dB

10 %: 2.76 dB
1 %: 3.16 dB
.1 %: 3.24 dB
.01 %: 3.28 dB

Date: 22.MAR.2016 11:24:02

Middle Channel

Ref: 35 dBm, Att: 30 dB, AGT: 3.125 ms

Center 1.88 GHz

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean: 29.09 dBm
Peak: 29.33 dBm
Crest: 0.24 dB

10 %: 0.16 dB
1 %: 0.20 dB
.1 %: 0.20 dB
.01 %: 0.20 dB

Date: 22.MAR.2016 10:57:03

Middle Channel

Ref: 35 dBm, Att: 30 dB, AGT: 3.125 ms

Center 1.88 GHz

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean: 25.00 dBm
Peak: 28.06 dBm
Crest: 3.05 dB

10 %: 2.56 dB
1 %: 2.96 dB
.1 %: 3.04 dB
.01 %: 3.08 dB

Date: 22.MAR.2016 11:24:20

Highest Channel

Ref: 35 dBm, Att: 30 dB, AGT: 3.125 ms

Center 1.9098 GHz

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean: 28.81 dBm
Peak: 29.04 dBm
Crest: 0.23 dB

10 %: 0.16 dB
1 %: 0.20 dB
.1 %: 0.24 dB
.01 %: 0.24 dB

Date: 22.MAR.2016 10:57:43

Highest Channel

Ref: 35 dBm, Att: 30 dB, AGT: 3.125 ms

Center 1.9098 GHz

Complementary Cumulative Distribution Function (100000 samples)

Trace 1

Mean: 24.64 dBm
Peak: 27.84 dBm
Crest: 3.20 dB

10 %: 2.64 dB
1 %: 3.12 dB
.1 %: 3.16 dB
.01 %: 3.24 dB

Date: 22.MAR.2016 11:24:44

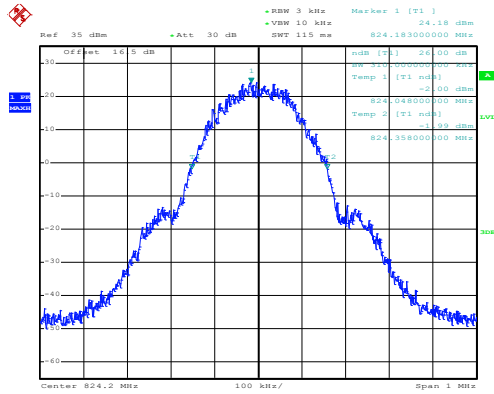
**26dB Bandwidth**

Mode	GSM850	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.310	0.299
Middle CH	0.288	0.298
Highest CH	0.312	0.307

Mode	GSM1900	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.312	0.312
Middle CH	0.312	0.308
Highest CH	0.309	0.307

GSM850 (GPRS class 8)

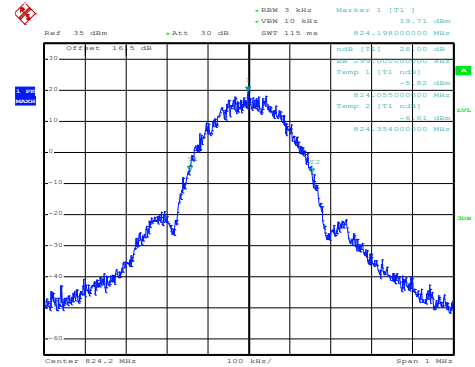
Lowest Channel



Date: 22.MAR.2016 09:46:56

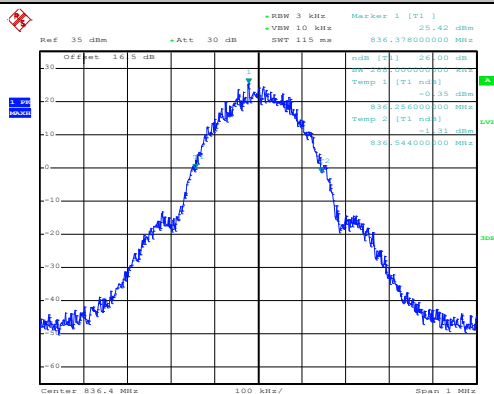
GSM850 (EDGE class 8)

Lowest Channel



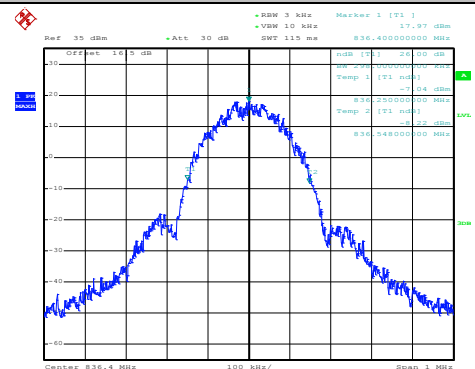
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Middle Channel



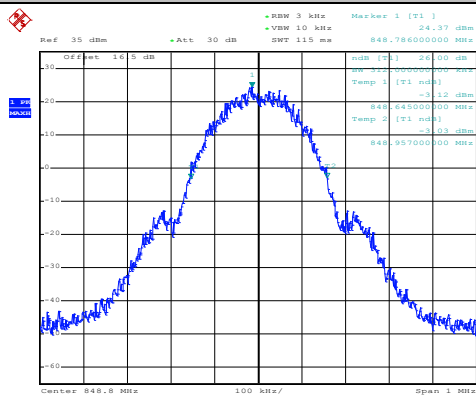
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Middle Channel



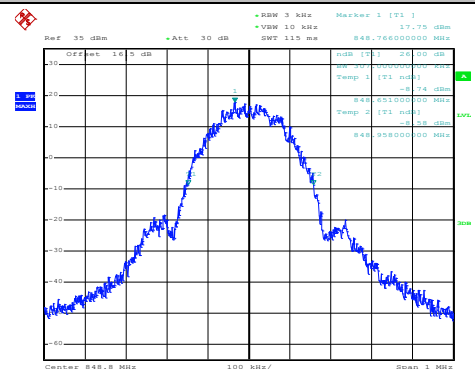
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Highest Channel

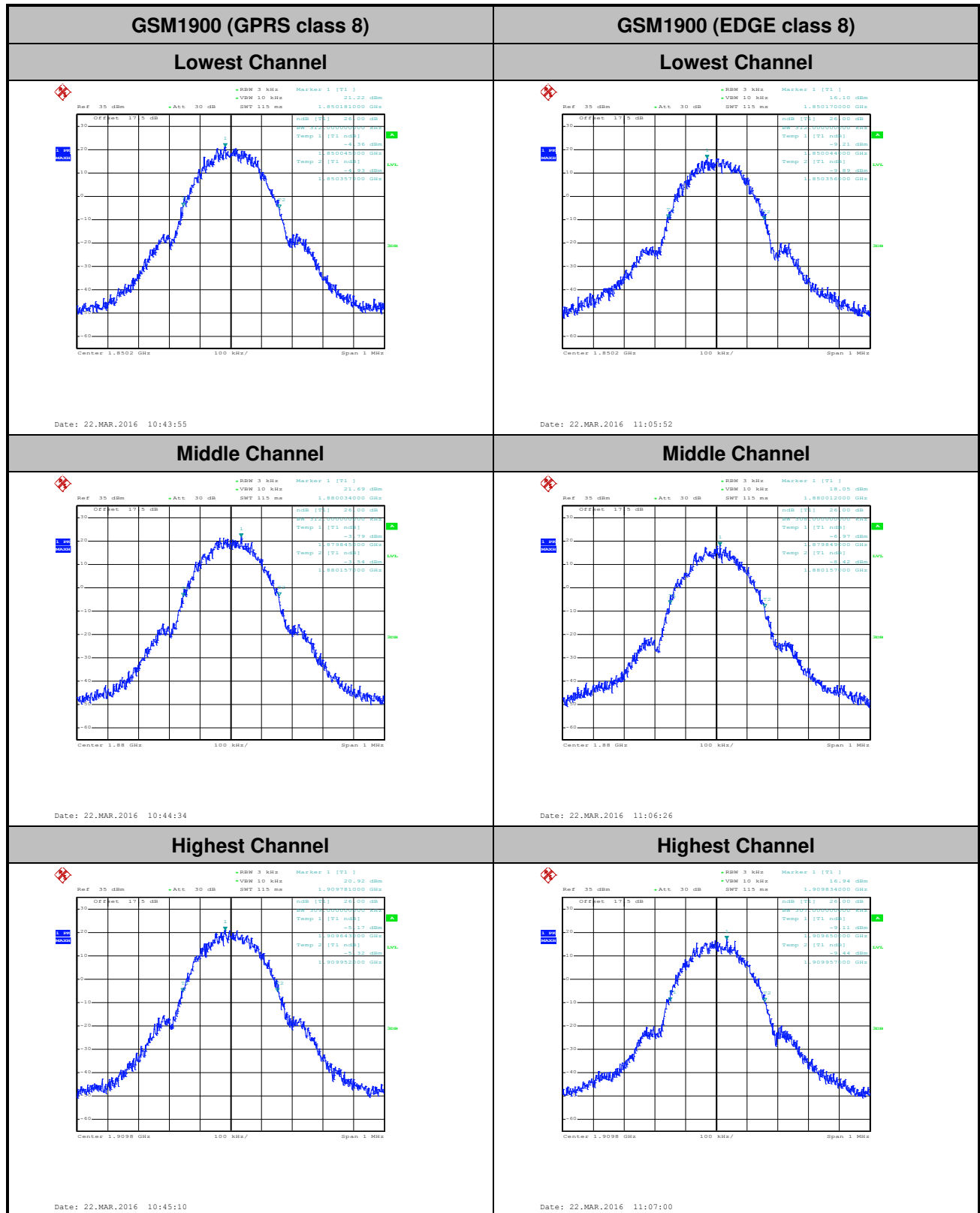


Date: 22.MAR.2016 09:48:17

Highest Channel



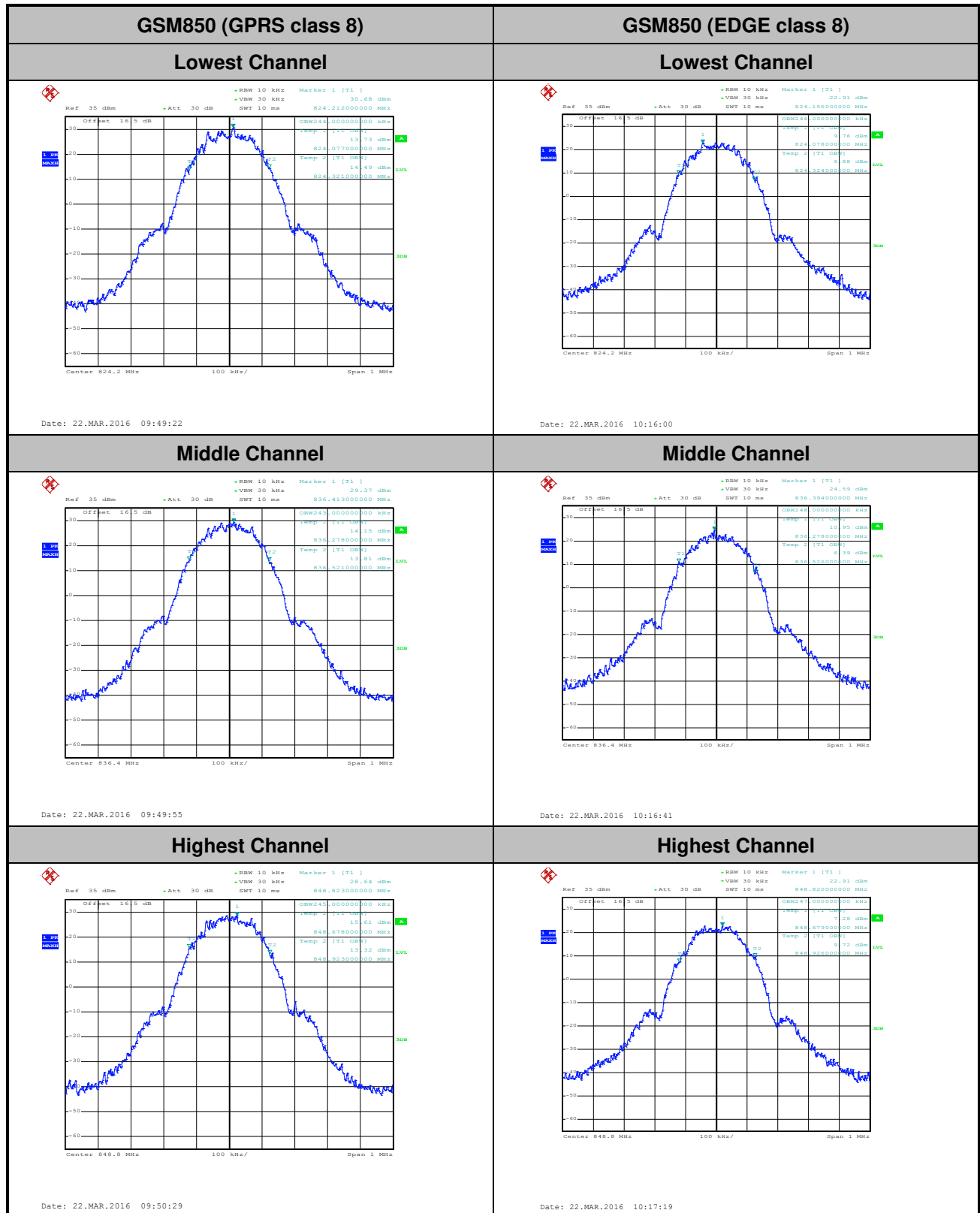
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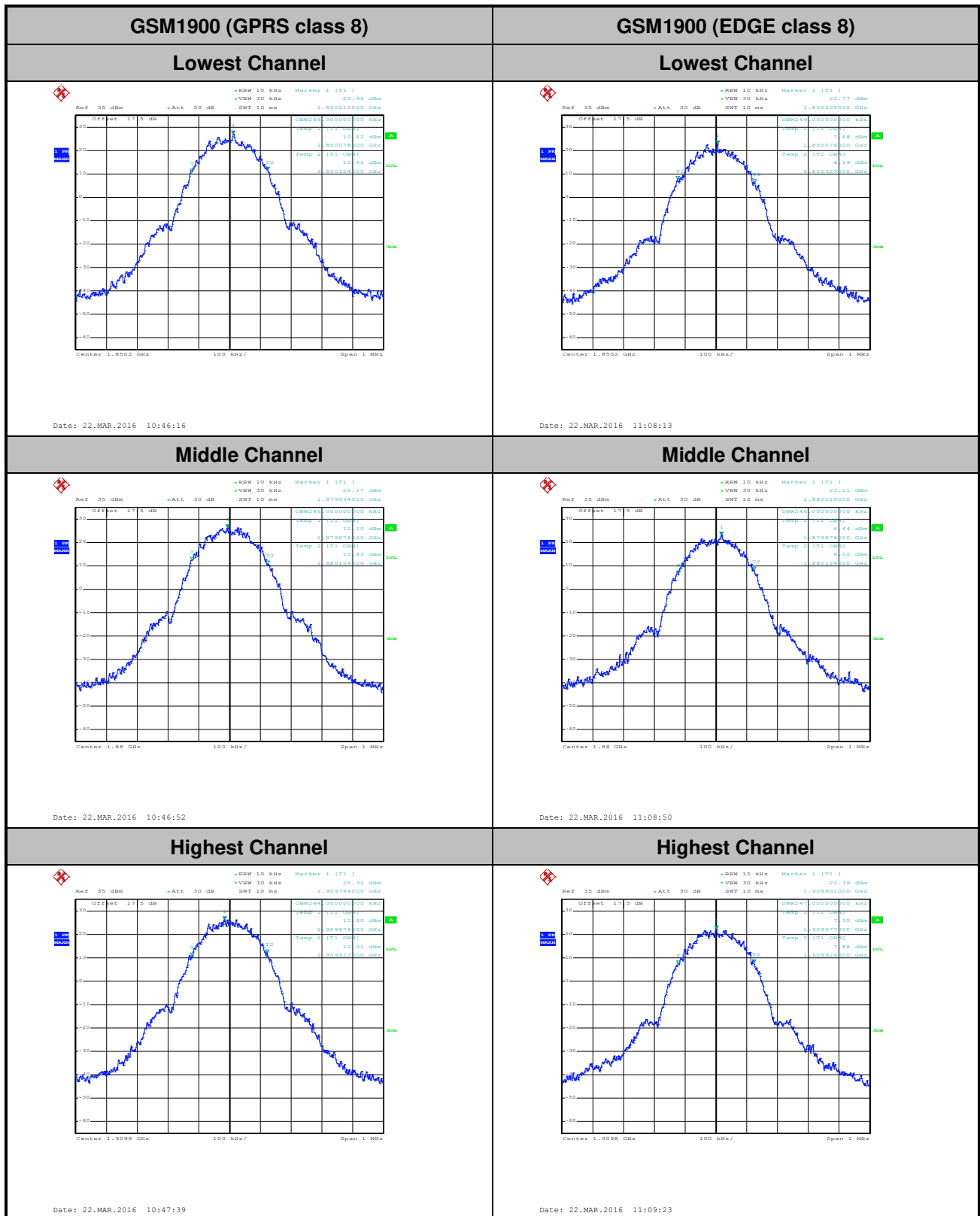


**Occupied Bandwidth**

Mode	GSM850	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.244	0.246
Middle CH	0.243	0.248
Highest CH	0.245	0.247

Mode	GSM1900	
Mod.	GPRS class 8	EDGE class 8
Lowest CH	0.246	0.249
Middle CH	0.246	0.246
Highest CH	0.244	0.247



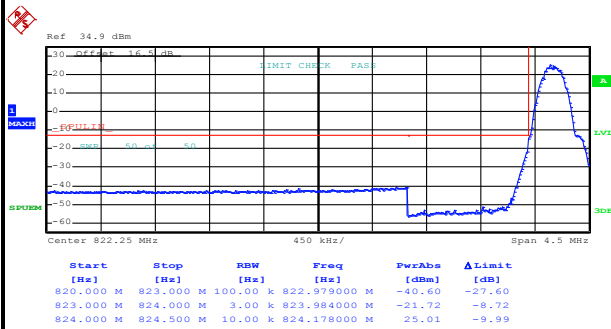




Conducted Band Edge

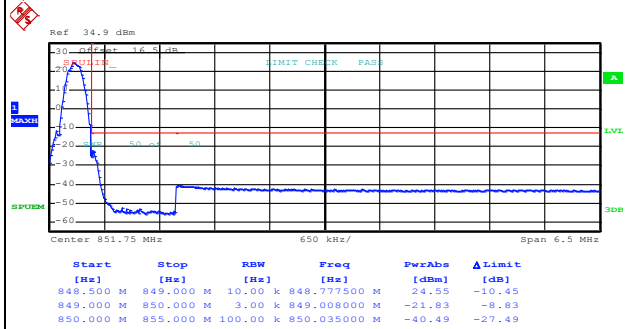
GSM850 (GPRS class 8)

Lowest Band Edge



Date: 22.MAR.2016 09:53:47

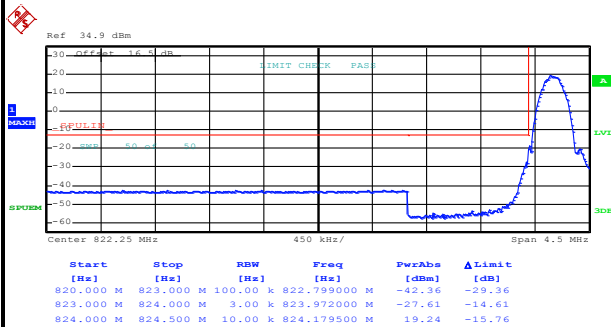
Highest Band Edge



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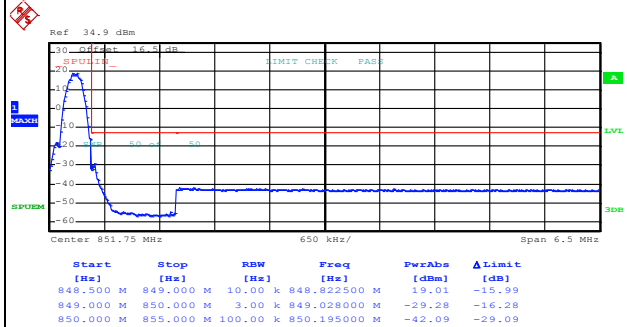
GSM850 (EDGE class 8)

Lowest Band Edge



Date: 22.MAR.2016 10:19:40

Highest Band Edge

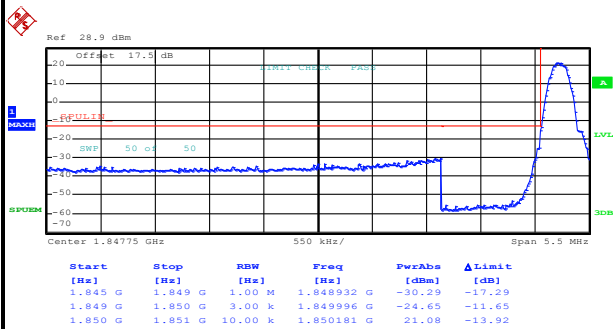


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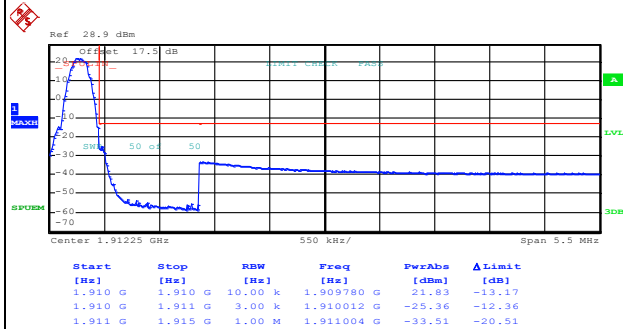
GSM1900 (GPRS class 8)

Lowest Band Edge



Date: 22.MAR.2016 10:51:33

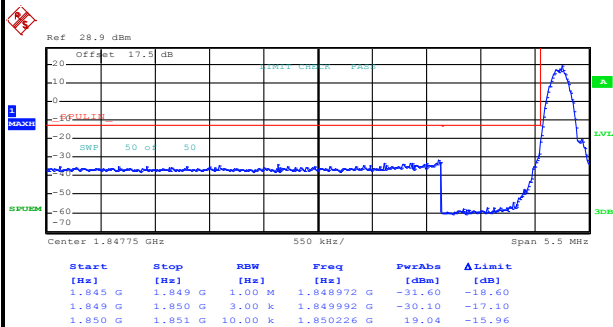
Highest Band Edge



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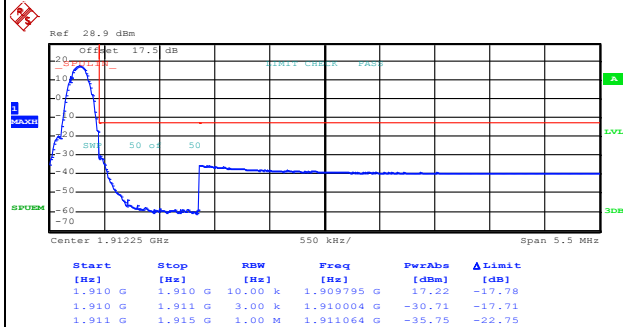
GSM1900 (EDGE class 8)

Lowest Band Edge



Date: 22.MAR.2016 11:11:11

Highest Band Edge

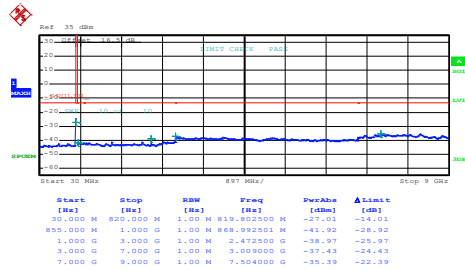


Date: 22.MAR.2016 11:12:47

Conducted Spurious Emission

GSM850 (GPRS class 8)

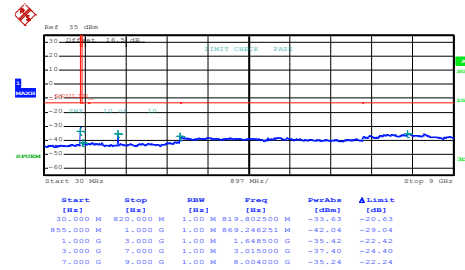
Lowest Channel



Date: 22.MAR.2016 10:01:31

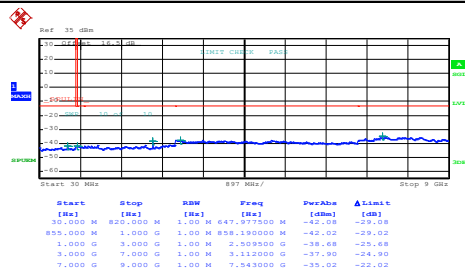
GSM850 (EDGE class 8)

Lowest Channel



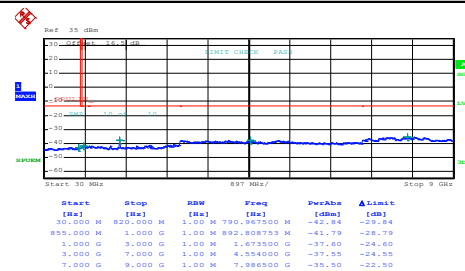
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Middle Channel



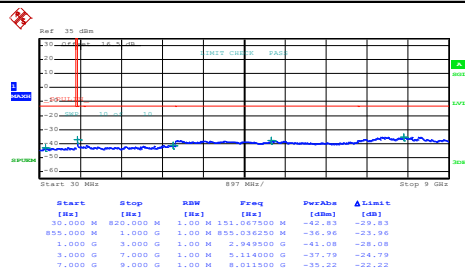
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Middle Channel



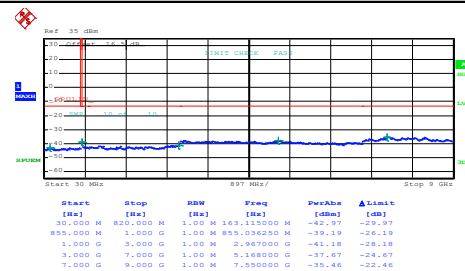
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Highest Channel



Date: 22.MAR.2016 10:03:16

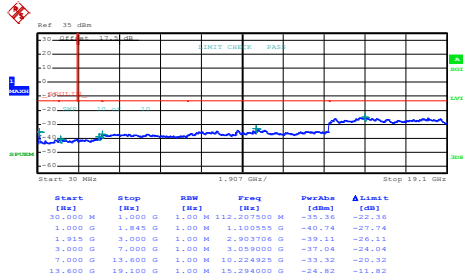
Highest Channel



Date: 22.MAR.2016 10:28:58

GSM1900 (GPRS class 8)

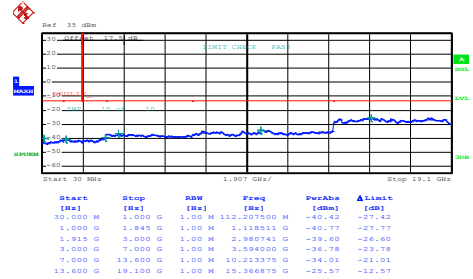
Lowest Channel



Date: 22.MAR.2016 10:54:31

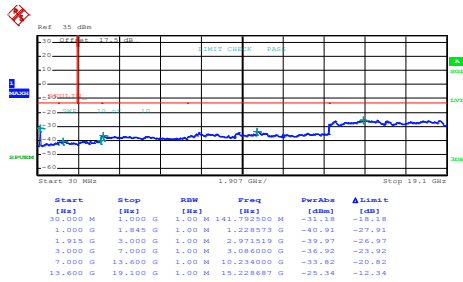
GSM1900 (EDGE class 8)

Lowest Channel



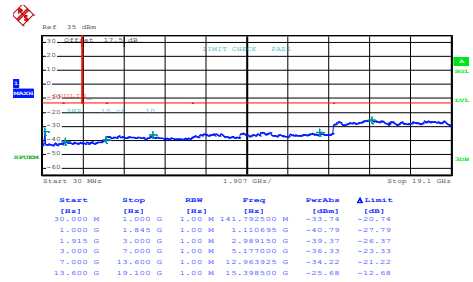
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Middle Channel



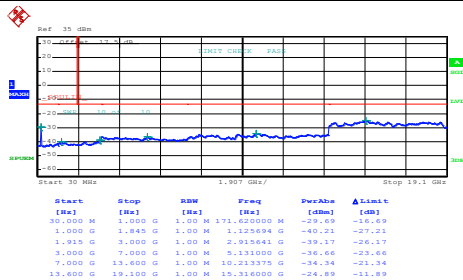
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Middle Channel



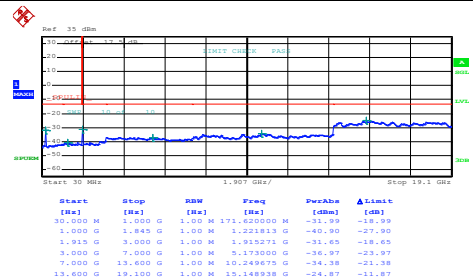
Date: 22.MAR.2016 11:17:42

Highest Channel



Date: 22.MAR.2016 10:56:17

Highest Channel



Date: 22.MAR.2016 11:19:00

Frequency Stability

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

Note:

1. Normal Voltage = 6.0V. ; Battery End Point (BEP) = 4.92 V. ; Maximum Voltage =7.0 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
		Deviation (ppm)		Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0186	0.0021	PASS
40	Normal Voltage	0.0165	0.0016	
30	Normal Voltage	0.0154	0.0005	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0144	0.0037	
0	Normal Voltage	0.0149	0.0011	
-10	Normal Voltage	0.0165	0.0027	
-20	Normal Voltage	0.0176	0.0032	
-30	Normal Voltage	0.0170	0.0043	
20	Maximum Voltage	0.0138	0.0032	
20	Normal Voltage	0.0144	0.0005	
20	Battery End Point	0.0165	0.0043	

Note:

1. Normal Voltage = 6.0V. ; Battery End Point (BEP) = 4.92 V. ; Maximum Voltage =7.0 V
2. The frequency fundamental emissions stay within the authorized frequency block.