A2. GSM

Peak-to-Average Ratio

Mode	GSM850	Limit: 13dB
Mod.	GPRS class 8	Result
Lowest CH	0.20	
Middle CH	0.20	PASS
Highest CH	0.16	

Mode	GSM1900	Limit: 13dB
Mod.	GPRS class 8	Result
Lowest CH	0.20	
Middle CH	0.16	PASS
Highest CH	0.20	

GSM850 (GPRS class 8)

Lowest Channel

Complementary Cumulative Distribution Function (100000 samples)
Trace 1
Mean   29.36 dBm
Peak   29.54 dBm
Crest   0.18 dB

10 %   0.12 dB
 1 %   0.16 dB
.1 %   0.20 dB
.01 %   0.20 dB

Date: 26.OCT.2016 10:15:03

Middle Channel

Complementary Cumulative Distribution Function (100000 samples)
Trace 1
Mean   29.63 dBm
Peak   29.82 dBm
Crest   0.19 dB

10 %   0.12 dB
 1 %   0.16 dB
.1 %   0.20 dB
.01 %   0.20 dB

Date: 26.OCT.2016 10:16:20

Highest Channel

Complementary Cumulative Distribution Function (100000 samples)
Trace 1
Mean   29.33 dBm
Peak   29.54 dBm
Crest   0.21 dB

10 %   0.12 dB
 1 %   0.16 dB
.1 %   0.16 dB
.01 %   0.20 dB

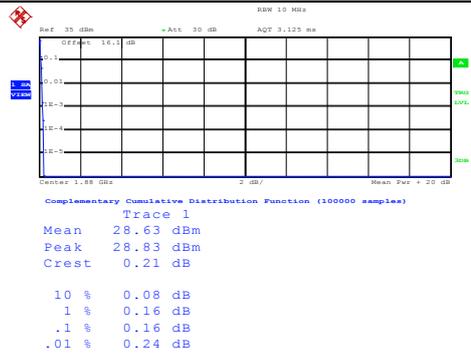Date: 26.OCT.2016 10:17:33

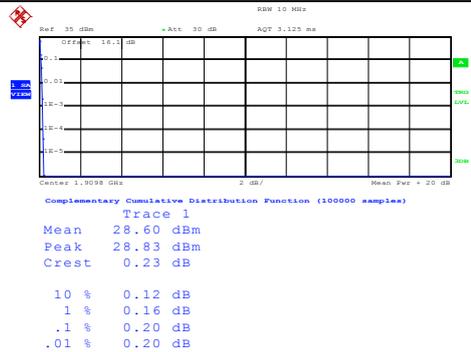## GSM1900 (GPRS class 8)

Lowest Channel

Date: 26.OCT.2016 10:32:38

Middle Channel

Date: 26.OCT.2016 10:34:03

Highest Channel

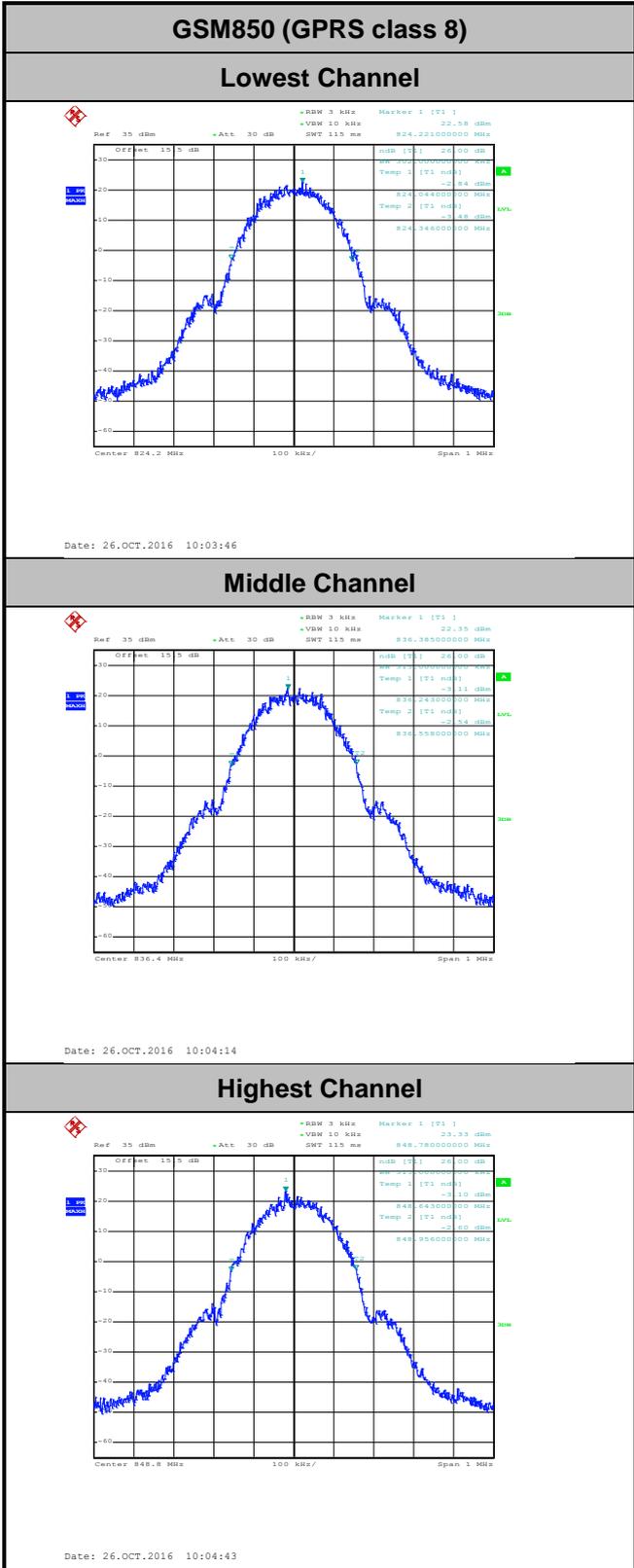Date: 26.OCT.2016 10:49:43

26dB Bandwidth

Mode	GSM850
Mod.	GPRS class 8
Lowest CH	0.302
Middle CH	0.315
Highest CH	0.313

Mode	GSM1900
Mod.	GPRS class 8
Lowest CH	0.304
Middle CH	0.312
Highest CH	0.307

GSM850 (GPRS class 8)

Lowest Channel

Date: 26.OCT.2016 10:03:46

Middle Channel

Date: 26.OCT.2016 10:04:14

Highest Channel
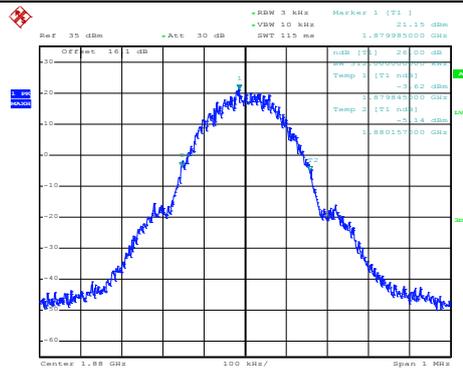

Date: 26.OCT.2016 10:04:43

GSM1900 (GPRS class 8)
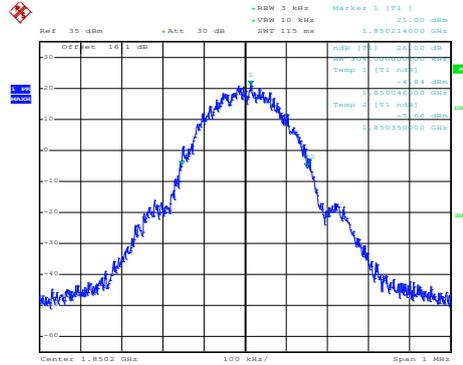
Lowest Channel
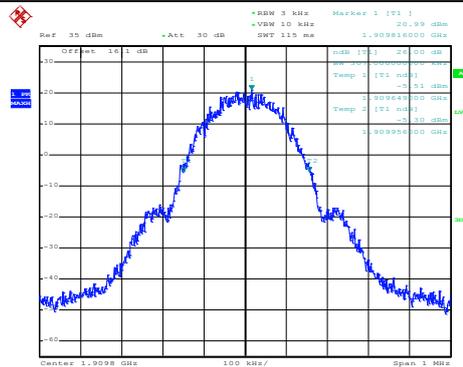

Date: 26.OCT.2016 10:22:09

Middle Channel

Date: 26.OCT.2016 10:22:37

Highest Channel

Date: 26.OCT.2016 10:23:05

Occupied Bandwidth

Mode	GSM850
Mod.	GPRS class 8
Lowest CH	0.241
Middle CH	0.243
Highest CH	0.243

Mode	GSM1900
Mod.	GPRS class 8
Lowest CH	0.243
Middle CH	0.249
Highest CH	0.246

GSM850 (GPRS class 8)

Lowest Channel

Date: 26.OCT.2016 10:05:16

Middle Channel

Date: 26.OCT.2016 10:05:45

Highest Channel

Date: 26.OCT.2016 10:06:13
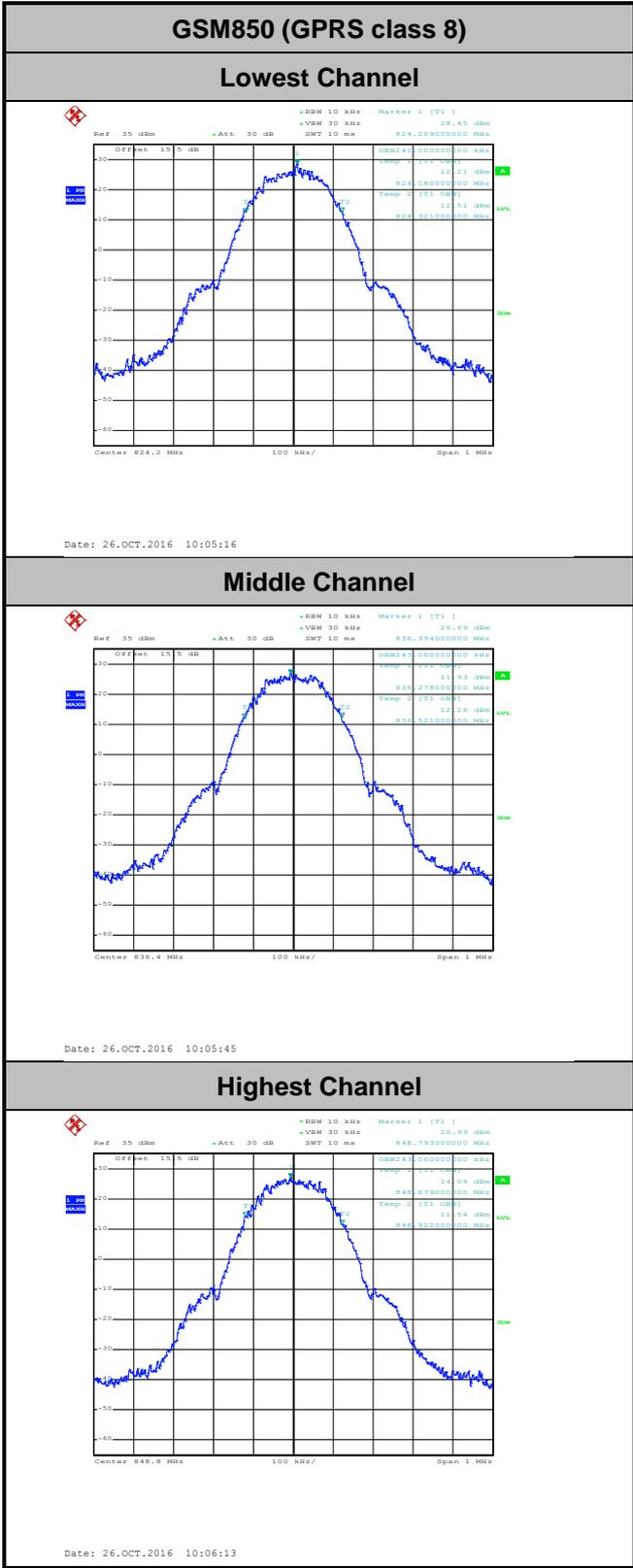
GSM1900 (GPRS class 8)
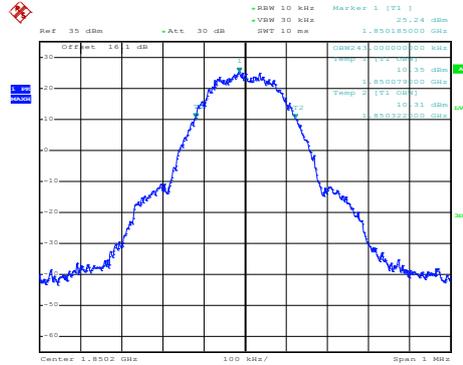
Lowest Channel

Date: 26.OCT.2016 10:23:41

Middle Channel

Date: 26.OCT.2016 10:24:09

Highest Channel

Date: 26.OCT.2016 10:24:37

Conducted Band Edge

GSM850 (GPRS class 8)	
Lowest Band Edge	**Highest Band Edge**

Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
820.000 M	823.000 M	100.00 k	822.976000 M	-41.78	-28.78
823.000 M	824.000 M	3.00 k	823.984000 M	-22.40	-9.40
824.000 M	824.500 M	10.00 k	824.181000 M	23.14	-11.86

Date: 26.OCT.2016 10:07:44

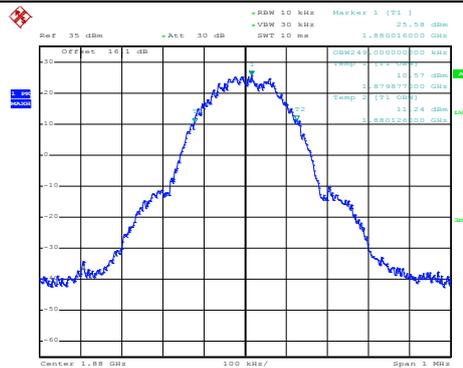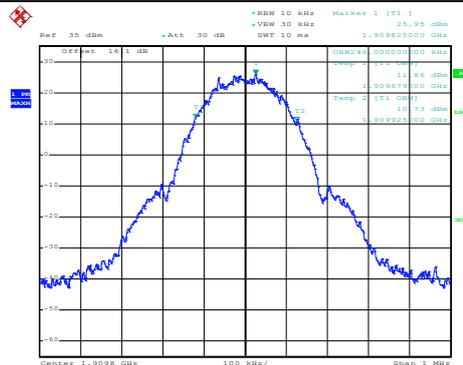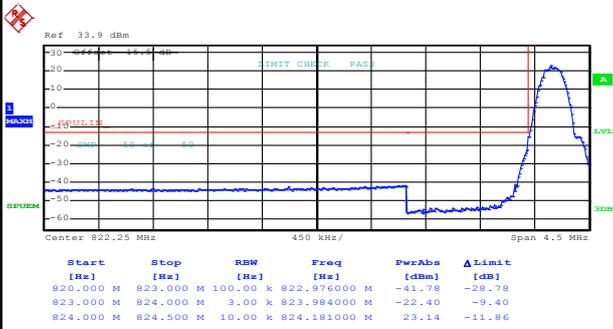| Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
848.500 M	849.000 M	10.00 k	848.791500 M	22.52	-12.48
849.000 M	850.000 M	3.00 k	849.020000 M	-22.67	-9.67
850.000 M	855.000 M	100.00 k	850.045000 M	-41.75	-28.75
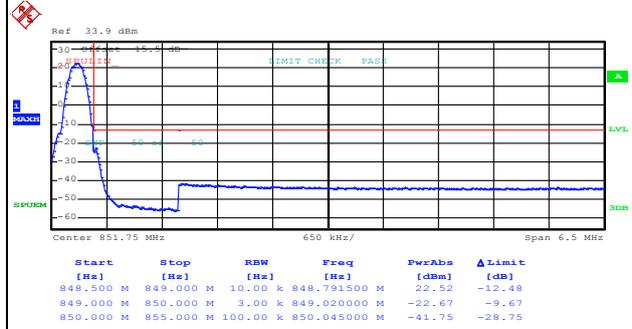
Date: 26.OCT.2016 10:09:11

GSM1900 (GPRS class 8)	
Lowest Band Edge	**Highest Band Edge**

Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.845 G	1.849 G	1.00 M	1.848964 G	-23.24	-10.24
1.849 G	1.850 G	3.00 k	1.849984 G	-23.50	-10.50
1.850 G	1.851 G	10.00 k	1.850176 G	22.01	-12.99

Date: 26.OCT.2016 10:27:17

Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.910 G	1.910 G	10.00 k	1.909812 G	22.93	-12.07
1.910 G	1.911 G	3.00 k	1.910020 G	-24.79	-11.79
1.911 G	1.915 G	1.00 M	1.911044 G	-33.37	-20.37
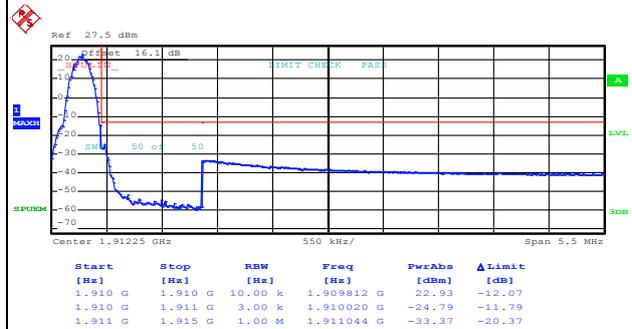
Date: 26.OCT.2016 10:28:44

Conducted Spurious Emission

GSM850 (GPRS class 8)

Lowest Channel

Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	Limit [dB]
30.000 M	820.000 M	1.00 M	819.802500 M	-28.94	-15.94
855.000 M	1.000 G	1.00 M	870.768751 M	-42.87	-29.87
1.000 G	3.000 G	1.00 M	1.648500 G	-32.56	-19.56
3.000 G	7.000 G	1.00 M	5.186000 G	-38.74	-25.74
7.000 G	9.000 G	1.00 M	8.366000 G	-36.27	-23.27

Date: 26.OCT.2016 10:10:04

Middle Channel

Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	Limit [dB]
30.000 M	820.000 M	1.00 M	497.680000 M	-43.77	-30.77
855.000 M	1.000 G	1.00 M	910.571254 M	-42.64	-29.64
1.000 G	3.000 G	1.00 M	1.673000 G	-32.62	-19.62
3.000 G	7.000 G	1.00 M	3.019000 G	-38.74	-25.74
7.000 G	9.000 G	1.00 M	8.320000 G	-36.34	-23.34

Date: 26.OCT.2016 10:10:50

Highest Channel

Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	Limit [dB]
30.000 M	820.000 M	1.00 M	612.625000 M	-43.42	-30.42
855.000 M	1.000 G	1.00 M	939.752506 M	-42.42	-29.42
1.000 G	3.000 G	1.00 M	1.697500 G	-35.06	-22.06
3.000 G	7.000 G	1.00 M	3.028000 G	-38.55	-25.55
7.000 G	9.000 G	1.00 M	8.139500 G	-36.54	-23.54

Date: 26.OCT.2016 10:11:36

GSM1900 (GPRS class 8)

Lowest Channel

Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	1.00 M	111.965000 M	-34.48	-21.48
1.000 G	1.845 G	1.00 M	1.062741 G	-42.02	-29.02
1.915 G	3.000 G	1.00 M	2.887160 G	-40.91	-27.91
3.000 G	7.000 G	1.00 M	3.577000 G	-38.20	-25.20
7.000 G	13.600 G	1.00 M	10.236475 G	-34.92	-21.92
13.600 G	19.100 G	1.00 M	15.390250 G	-26.57	-13.57

Date: 26.OCT.2016 10:29:37

Middle Channel
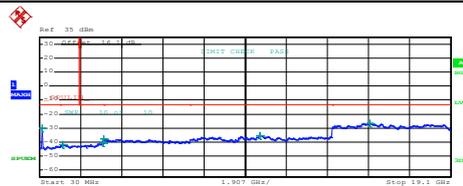
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	1.00 M	141.792500 M	-30.03	-17.03
1.000 G	1.845 G	1.00 M	1.095274 G	-41.83	-28.83
1.915 G	3.000 G	1.00 M	2.956600 G	-40.77	-27.77
3.000 G	7.000 G	1.00 M	3.000000 G	-37.85	-24.85
7.000 G	13.600 G	1.00 M	10.233175 G	-35.20	-22.20
13.600 G	19.100 G	1.00 M	15.353813 G	-26.48	-13.48

Date: 26.OCT.2016 10:30:23

Highest Channel
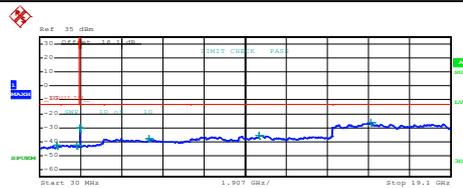
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	1.00 M	837.282500 M	-42.66	-29.66
1.000 G	1.845 G	1.00 M	1.742755 G	-42.25	-29.25
1.915 G	3.000 G	1.00 M	1.915271 G	-30.01	-17.01
3.000 G	7.000 G	1.00 M	5.109000 G	-37.96	-24.96
7.000 G	13.600 G	1.00 M	10.210075 G	-35.30	-22.30
13.600 G	19.100 G	1.00 M	15.410875 G	-26.38	-13.38

Date: 26.OCT.2016 10:31:09

Frequency Stability

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

Test Conditions	Middle Channel	GSM1900 (GPRS class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0059	
40	Normal Voltage	0.0074	
30	Normal Voltage	0.0043	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0032	
0	Normal Voltage	0.0027	
-10	Normal Voltage	0.0011	PASS
-20	Normal Voltage	0.0021	
-30	Normal Voltage	0.0000	
20	Maximum Voltage	0.0000	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	

Note:

1. Normal Voltage = 4.0V. ；Battery End Point (BEP) = 3.7 V.；Maximum Voltage =4.0 V

2. The frequency fundamental emissions stay within the authorized frequency block based.