

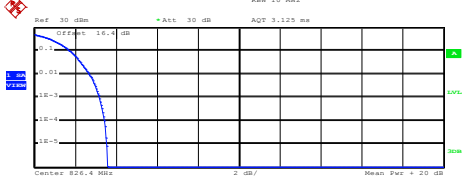
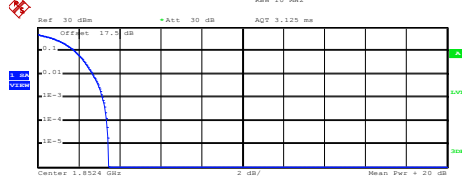
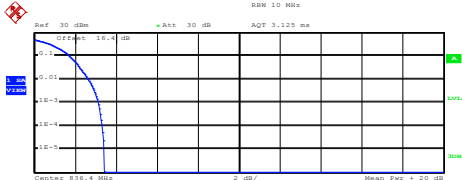
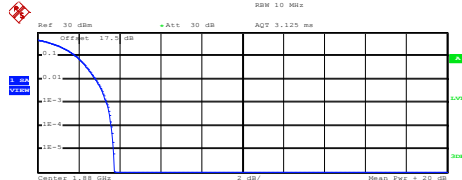
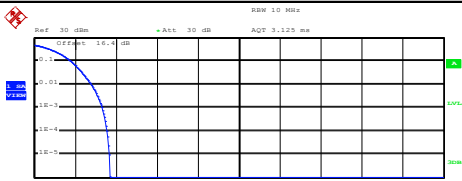
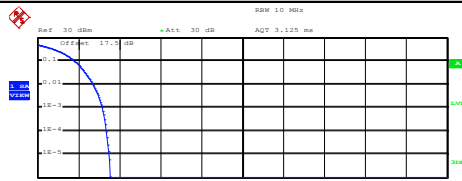


A2. WCDMA

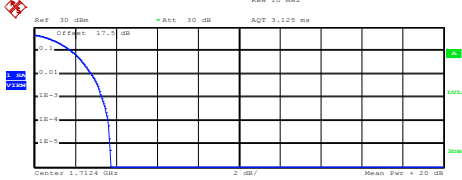
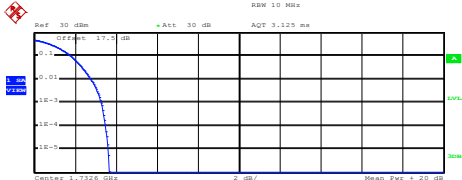
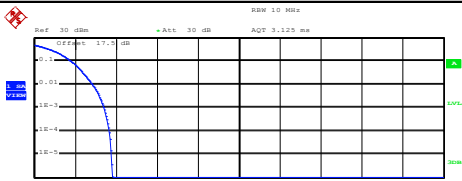
Peak-to-Average Ratio

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	3.20	3.16	3.32	PASS
Middle CH	3.16	3.36	3.28	
Highest CH	3.32	3.16	3.40	



WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)																
Lowest Channel	Lowest Channel																
 Ref: 30 dBm Att: 30 dB AQT: 3.125 ms Center: 826.4 MHz 2 dB/ Mean: Per + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 19.33 dBm Peak: 22.92 dBm Crest: 3.58 dB <table><tr><td>10 %</td><td>1.76 dB</td></tr><tr><td>1 %</td><td>2.68 dB</td></tr><tr><td>.1 %</td><td>3.20 dB</td></tr><tr><td>.01 %</td><td>3.44 dB</td></tr></table> Date: 10.DEC.2015 11:22:37	10 %	1.76 dB	1 %	2.68 dB	.1 %	3.20 dB	.01 %	3.44 dB	 Ref: 30 dBm Att: 30 dB AQT: 3.125 ms Center: 1.8524 GHz 2 dB/ Mean: Per + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 19.11 dBm Peak: 22.56 dBm Crest: 3.46 dB <table><tr><td>10 %</td><td>1.80 dB</td></tr><tr><td>1 %</td><td>2.68 dB</td></tr><tr><td>.1 %</td><td>3.16 dB</td></tr><tr><td>.01 %</td><td>3.36 dB</td></tr></table> Date: 10.DEC.2015 10:54:44	10 %	1.80 dB	1 %	2.68 dB	.1 %	3.16 dB	.01 %	3.36 dB
10 %	1.76 dB																
1 %	2.68 dB																
.1 %	3.20 dB																
.01 %	3.44 dB																
10 %	1.80 dB																
1 %	2.68 dB																
.1 %	3.16 dB																
.01 %	3.36 dB																
Middle Channel	Middle Channel																
 Ref: 30 dBm Att: 30 dB AQT: 3.125 ms Center: 830.4 MHz 2 dB/ Mean: Per + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 19.28 dBm Peak: 22.70 dBm Crest: 3.43 dB <table><tr><td>10 %</td><td>1.72 dB</td></tr><tr><td>1 %</td><td>2.64 dB</td></tr><tr><td>.1 %</td><td>3.16 dB</td></tr><tr><td>.01 %</td><td>3.32 dB</td></tr></table> Date: 10.DEC.2015 11:22:48	10 %	1.72 dB	1 %	2.64 dB	.1 %	3.16 dB	.01 %	3.32 dB	 Ref: 30 dBm Att: 30 dB AQT: 3.125 ms Center: 1.85 GHz 2 dB/ Mean: Per + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 19.37 dBm Peak: 23.13 dBm Crest: 3.76 dB <table><tr><td>10 %</td><td>1.88 dB</td></tr><tr><td>1 %</td><td>2.84 dB</td></tr><tr><td>.1 %</td><td>3.36 dB</td></tr><tr><td>.01 %</td><td>3.60 dB</td></tr></table> Date: 10.DEC.2015 10:55:13	10 %	1.88 dB	1 %	2.84 dB	.1 %	3.36 dB	.01 %	3.60 dB
10 %	1.72 dB																
1 %	2.64 dB																
.1 %	3.16 dB																
.01 %	3.32 dB																
10 %	1.88 dB																
1 %	2.84 dB																
.1 %	3.36 dB																
.01 %	3.60 dB																
Highest Channel	Highest Channel																
 Ref: 30 dBm Att: 30 dB AQT: 3.125 ms Center: 846.6 MHz 2 dB/ Mean: Per + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 19.77 dBm Peak: 23.48 dBm Crest: 3.71 dB <table><tr><td>10 %</td><td>1.80 dB</td></tr><tr><td>1 %</td><td>2.80 dB</td></tr><tr><td>.1 %</td><td>3.32 dB</td></tr><tr><td>.01 %</td><td>3.56 dB</td></tr></table> Date: 10.DEC.2015 11:23:00	10 %	1.80 dB	1 %	2.80 dB	.1 %	3.32 dB	.01 %	3.56 dB	 Ref: 30 dBm Att: 30 dB AQT: 3.125 ms Center: 1.9076 GHz 2 dB/ Mean: Per + 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean: 19.92 dBm Peak: 23.48 dBm Crest: 3.56 dB <table><tr><td>10 %</td><td>1.84 dB</td></tr><tr><td>1 %</td><td>2.72 dB</td></tr><tr><td>.1 %</td><td>3.16 dB</td></tr><tr><td>.01 %</td><td>3.36 dB</td></tr></table> Date: 10.DEC.2015 10:55:22	10 %	1.84 dB	1 %	2.72 dB	.1 %	3.16 dB	.01 %	3.36 dB
10 %	1.80 dB																
1 %	2.80 dB																
.1 %	3.32 dB																
.01 %	3.56 dB																
10 %	1.84 dB																
1 %	2.72 dB																
.1 %	3.16 dB																
.01 %	3.36 dB																



WCDMA Band IV (RMC 12.2Kbps)									
Lowest Channel									
 Ref: 30 dBm Att: 30 dB AQT: 3.125 ms Center: 1.7124 GHz 2 dB/ Mean Pwr: 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 19.39 dBm Peak 23.13 dBm Crest 3.73 dB <table><tr><td>10 %</td><td>1.80 dB</td></tr><tr><td>1 %</td><td>2.80 dB</td></tr><tr><td>.1 %</td><td>3.32 dB</td></tr><tr><td>.01 %</td><td>3.60 dB</td></tr></table> Date: 10.DEC.2015 11:07:04	10 %	1.80 dB	1 %	2.80 dB	.1 %	3.32 dB	.01 %	3.60 dB	
10 %	1.80 dB								
1 %	2.80 dB								
.1 %	3.32 dB								
.01 %	3.60 dB								
Middle Channel									
 Ref: 30 dBm Att: 30 dB AQT: 3.125 ms Center: 1.7326 GHz 2 dB/ Mean Pwr: 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 19.97 dBm Peak 23.62 dBm Crest 3.65 dB <table><tr><td>10 %</td><td>1.80 dB</td></tr><tr><td>1 %</td><td>2.76 dB</td></tr><tr><td>.1 %</td><td>3.28 dB</td></tr><tr><td>.01 %</td><td>3.48 dB</td></tr></table> Date: 10.DEC.2015 11:07:15	10 %	1.80 dB	1 %	2.76 dB	.1 %	3.28 dB	.01 %	3.48 dB	
10 %	1.80 dB								
1 %	2.76 dB								
.1 %	3.28 dB								
.01 %	3.48 dB								
Highest Channel									
 Ref: 30 dBm Att: 30 dB AQT: 3.125 ms Center: 1.7526 GHz 2 dB/ Mean Pwr: 20 dB Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 19.67 dBm Peak 23.48 dBm Crest 3.81 dB <table><tr><td>10 %</td><td>1.80 dB</td></tr><tr><td>1 %</td><td>2.84 dB</td></tr><tr><td>.1 %</td><td>3.40 dB</td></tr><tr><td>.01 %</td><td>3.68 dB</td></tr></table> Date: 10.DEC.2015 11:07:25	10 %	1.80 dB	1 %	2.84 dB	.1 %	3.40 dB	.01 %	3.68 dB	
10 %	1.80 dB								
1 %	2.84 dB								
.1 %	3.40 dB								
.01 %	3.68 dB								

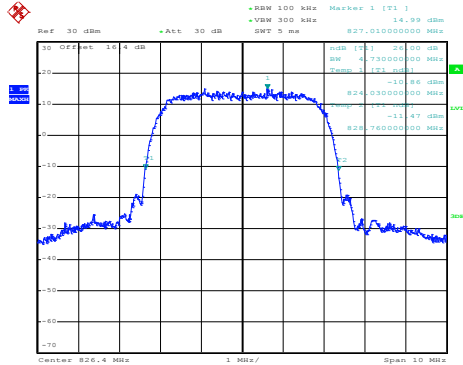
**26dB Bandwidth**

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.73	4.71	4.70
Middle CH	4.70	4.72	4.68
Highest CH	4.70	4.71	4.69



WCDMA Band V (RMC 12.2Kbps)

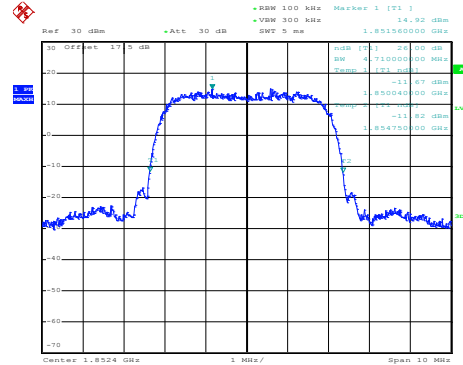
Lowest Channel



Date: 10.DEC.2015 11:09:01

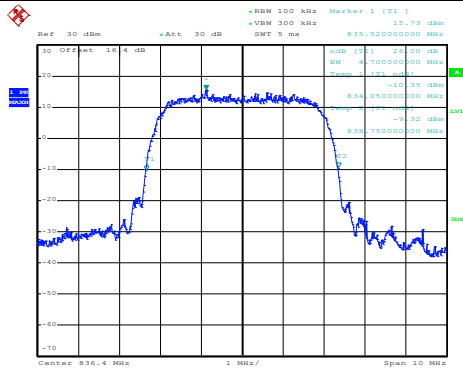
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



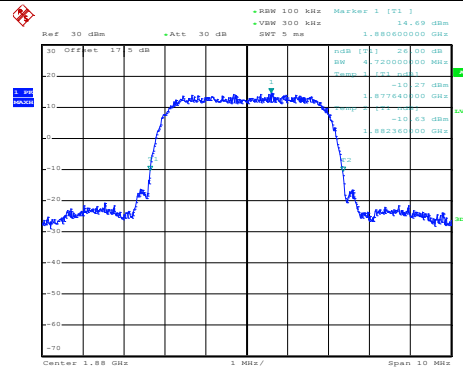
Date: 10.DEC.2015 10:43:13

Middle Channel



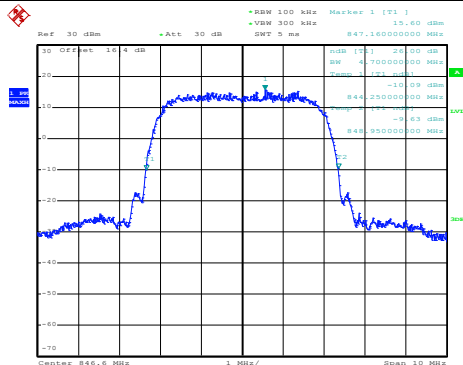
Date: 10.DEC.2015 11:09:29

Middle Channel



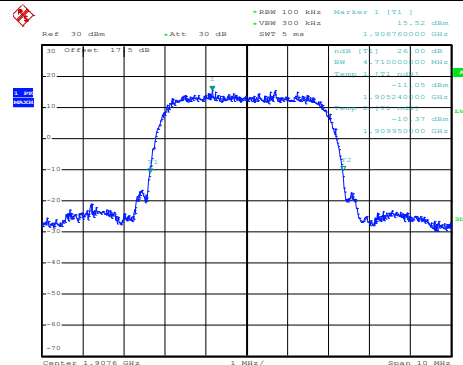
Date: 10.DEC.2015 10:43:41

Highest Channel



Date: 10.DEC.2015 11:09:57

Highest Channel

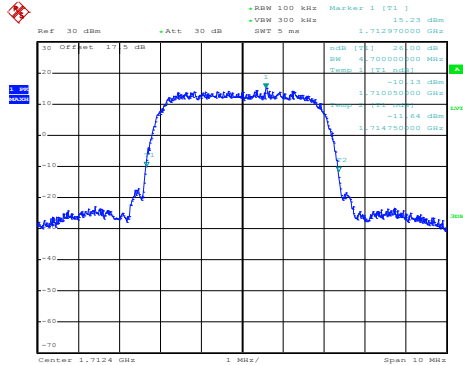


Date: 10.DEC.2015 10:44:09



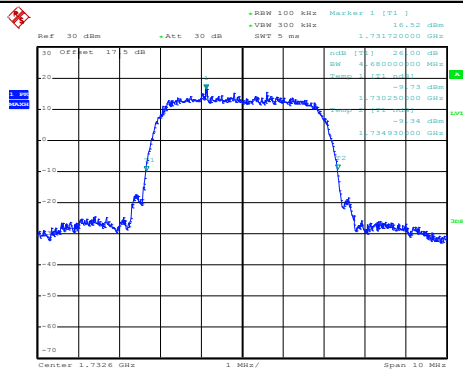
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



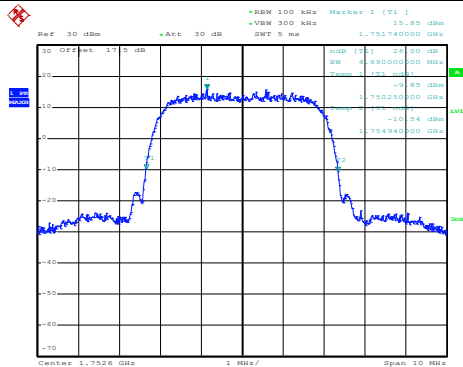
Date: 10.DEC.2015 10:56:28

Middle Channel



Date: 10.DEC.2015 10:56:56

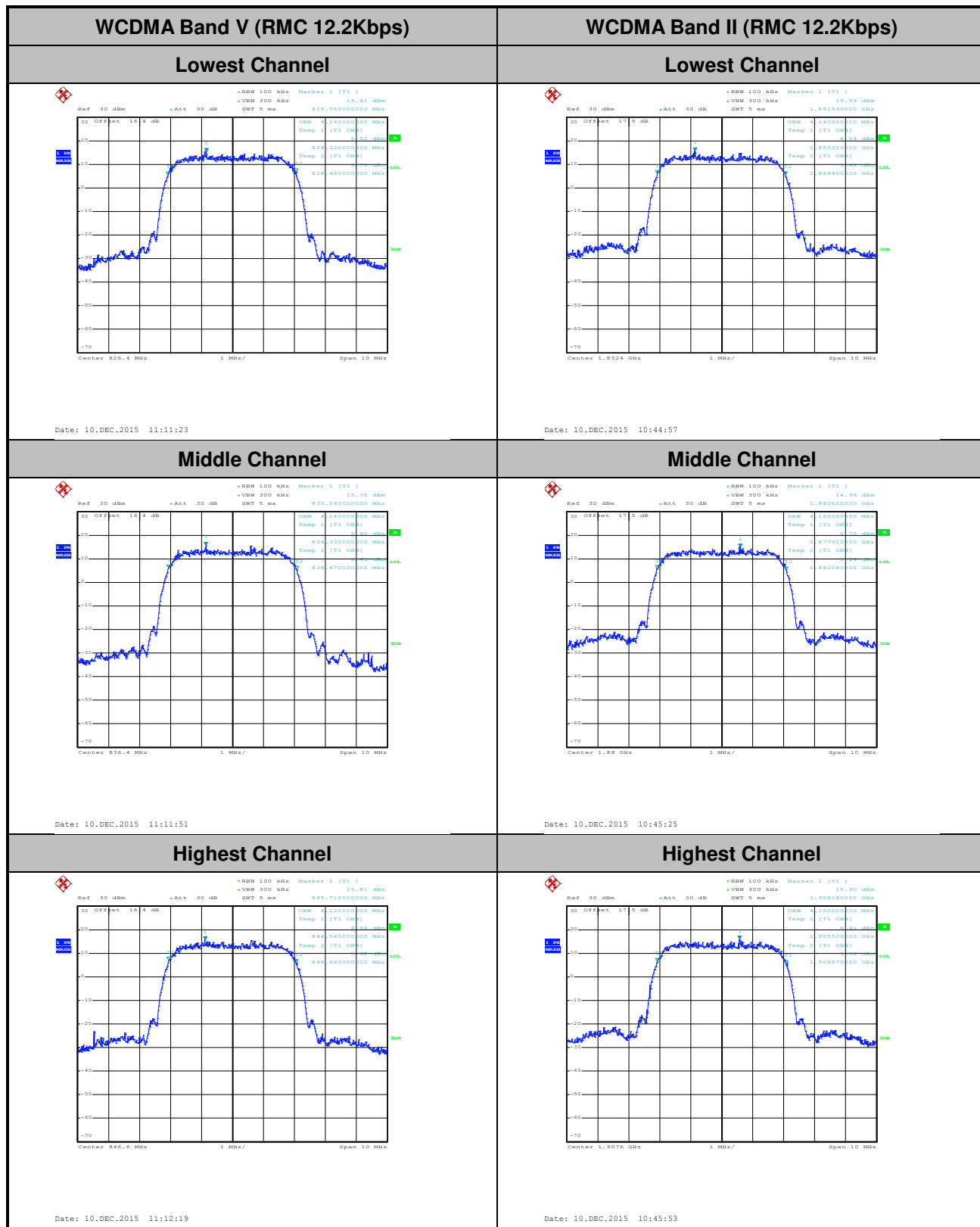
Highest Channel



Date: 10.DEC.2015 10:57:24

**Occupied Bandwidth**

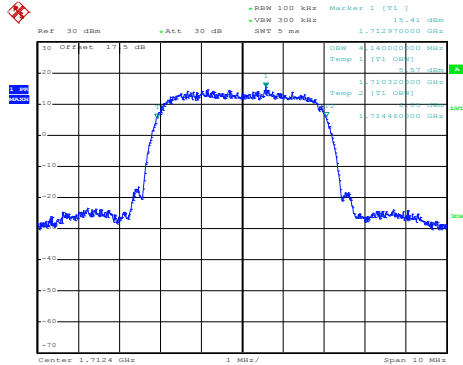
Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.14	4.14	4.14
Middle CH	4.13	4.16	4.13
Highest CH	4.12	4.15	4.14





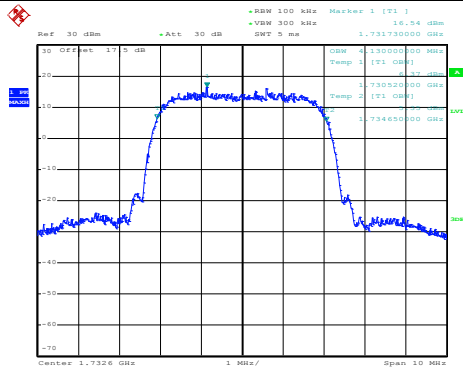
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



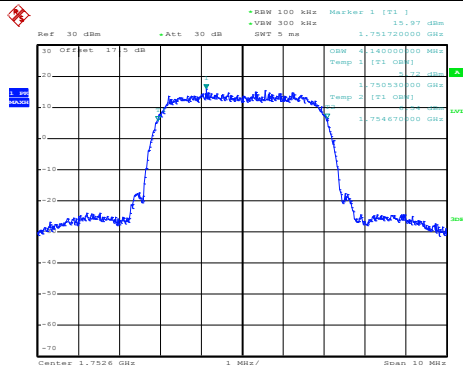
Date: 10.DEC.2015 10:58:00

Middle Channel

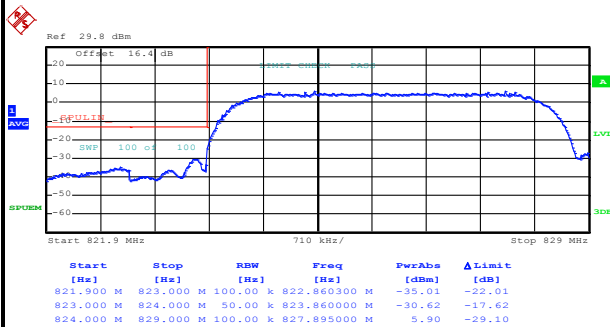


Date: 10.DEC.2015 10:58:28

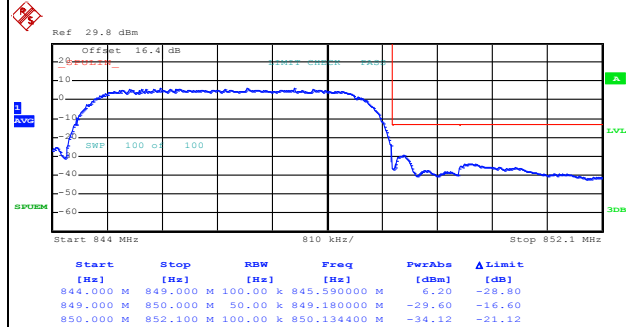
Highest Channel



Date: 10.DEC.2015 10:58:56

**Conducted Band Edge****WCDMA Band V (RMC 12.2Kbps)****Lowest Band Edge**

Date: 10.DEC.2015 11:15:27

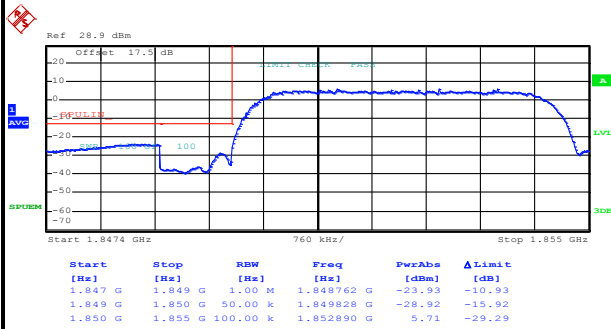
Highest Band Edge

Date: 10.DEC.2015 11:18:10



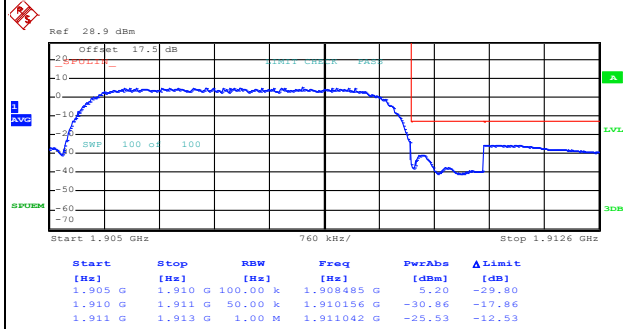
WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge



Date: 10.DEC.2015 10:48:47

Highest Band Edge

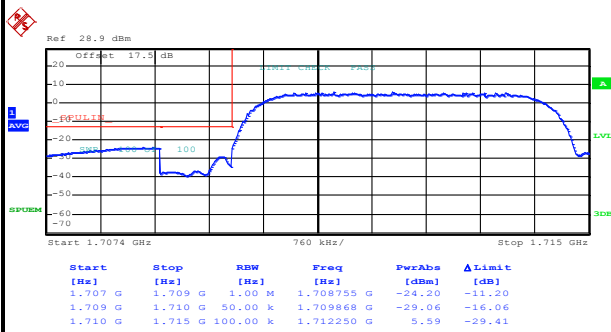


Date: 10.DEC.2015 10:51:29



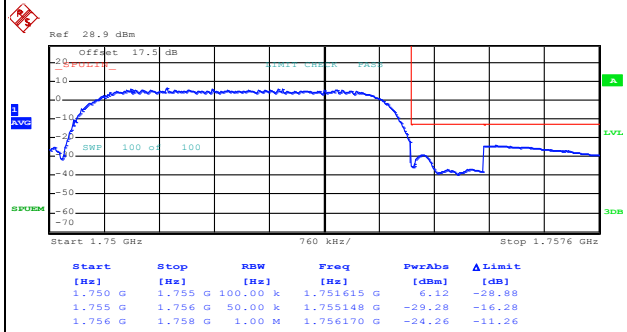
WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge



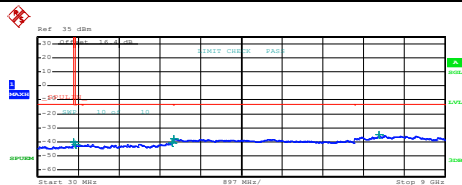
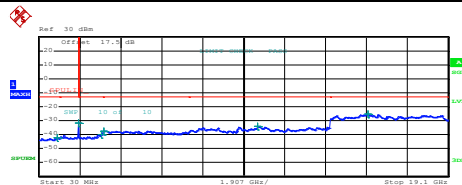
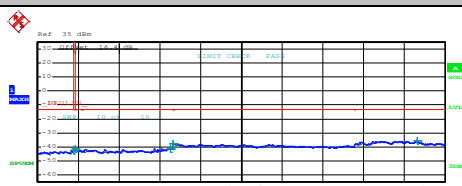
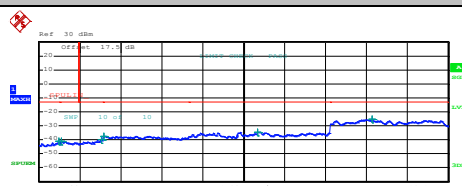
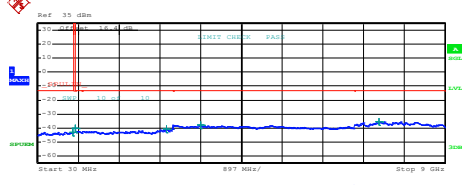
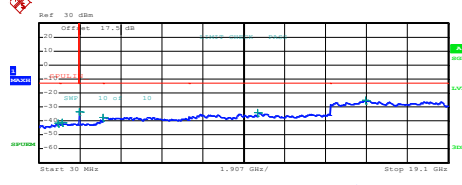
Date: 10.DEC.2015 11:01:51

Highest Band Edge



Date: 10.DEC.2015 11:04:34

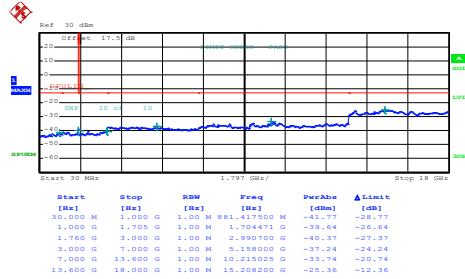
**Conducted Spurious Emission**

WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)																																																																																										
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>1,000 M</td><td>819,605000 M</td><td>-40.15</td><td>-27.15</td></tr><tr><td>855,000 M</td><td>1,000 G</td><td>1,000 M</td><td>857,102500 M</td><td>-42.09</td><td>-29.09</td></tr><tr><td>1,000 G</td><td>3,000 G</td><td>1,000 M</td><td>2,997500 G</td><td>-40.94</td><td>-27.94</td></tr><tr><td>3,000 G</td><td>7,000 G</td><td>1,000 M</td><td>3,025000 G</td><td>-37.95</td><td>-24.95</td></tr><tr><td>7,000 G</td><td>9,000 G</td><td>1,000 M</td><td>7,943500 G</td><td>-34.97</td><td>-21.97</td></tr></table> Date: 10.DEC.2015 11:21:27	Start	Stop	RBW	Freq	PerAbn	ΔLimit	[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]	30,000 M	820,000 M	1,000 M	819,605000 M	-40.15	-27.15	855,000 M	1,000 G	1,000 M	857,102500 M	-42.09	-29.09	1,000 G	3,000 G	1,000 M	2,997500 G	-40.94	-27.94	3,000 G	7,000 G	1,000 M	3,025000 G	-37.95	-24.95	7,000 G	9,000 G	1,000 M	7,943500 G	-34.97	-21.97	 <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>1,000 G</td><td>1,000 M</td><td>868,807500 M</td><td>-42.46</td><td>-29.46</td></tr><tr><td>1,000 G</td><td>1,845 G</td><td>1,000 M</td><td>1,844789 G</td><td>-31.43</td><td>-18.43</td></tr><tr><td>1,915 G</td><td>3,000 G</td><td>1,000 M</td><td>2,923204 G</td><td>-39.67</td><td>-26.67</td></tr><tr><td>3,000 G</td><td>7,000 G</td><td>1,000 M</td><td>3,025000 G</td><td>-37.40</td><td>-24.40</td></tr><tr><td>7,000 G</td><td>13,600 G</td><td>1,000 M</td><td>10,228225 G</td><td>-34.15</td><td>-21.15</td></tr><tr><td>13,600 G</td><td>19,100 G</td><td>1,000 M</td><td>15,366188 G</td><td>-25.54</td><td>-12.54</td></tr></table> Date: 10.DEC.2015 10:53:16	Start	Stop	RBW	Freq	PerAbn	ΔLimit	[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]	30,000 M	1,000 G	1,000 M	868,807500 M	-42.46	-29.46	1,000 G	1,845 G	1,000 M	1,844789 G	-31.43	-18.43	1,915 G	3,000 G	1,000 M	2,923204 G	-39.67	-26.67	3,000 G	7,000 G	1,000 M	3,025000 G	-37.40	-24.40	7,000 G	13,600 G	1,000 M	10,228225 G	-34.15	-21.15	13,600 G	19,100 G	1,000 M	15,366188 G	-25.54	-12.54
Start	Stop	RBW	Freq	PerAbn	ΔLimit																																																																																						
[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]																																																																																						
30,000 M	820,000 M	1,000 M	819,605000 M	-40.15	-27.15																																																																																						
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3,000 G	7,000 G	1,000 M	3,025000 G	-37.95	-24.95																																																																																						
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[Hz]	[Hz]	[Hz]	[Hz]	[dBm]	[dB]																																																																																						
30,000 M	1,000 G	1,000 M	868,807500 M	-42.46	-29.46																																																																																						
1,000 G	1,845 G	1,000 M	1,844789 G	-31.43	-18.43																																																																																						
1,915 G	3,000 G	1,000 M	2,923204 G	-39.67	-26.67																																																																																						
3,000 G	7,000 G	1,000 M	3,025000 G	-37.40	-24.40																																																																																						
7,000 G	13,600 G	1,000 M	10,228225 G	-34.15	-21.15																																																																																						
13,600 G	19,100 G	1,000 M	15,366188 G	-25.54	-12.54																																																																																						
Middle Channel	Middle Channel																																																																																										
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Start	Stop	RBW	Freq	PerAbn	ΔLimit																																																																																						
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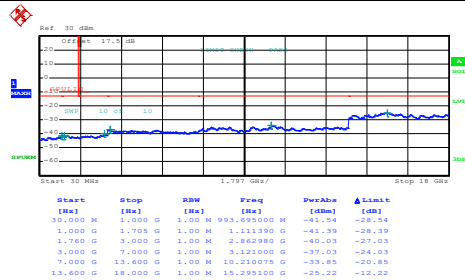
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



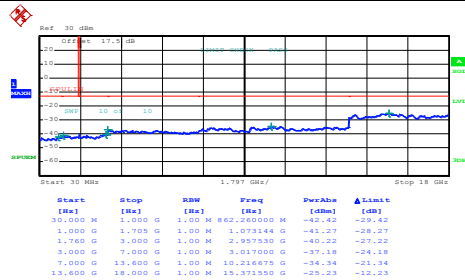
Date: 10.DEC.2015 11:05:38

Middle Channel



Date: 10.DEC.2015 11:06:08

Highest Channel



Date: 10.DEC.2015 11:06:38

Frequency Stability

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0036	PASS
40	Normal Voltage	0.0048	
30	Normal Voltage	0.0060	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0048	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0084	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0072	
20	Maximum Voltage	0.0072	
20	Normal Voltage	0.0132	
20	Battery End Point	0.0060	

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	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0069	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0101	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0016	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0016	
20	Normal Voltage	0.0074	
20	Battery End Point	0.0059	

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	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0081	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0029	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0017	
-20	Normal Voltage	0.0104	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0023	
20	Normal Voltage	0.0069	
20	Battery End Point	0.0075	

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.