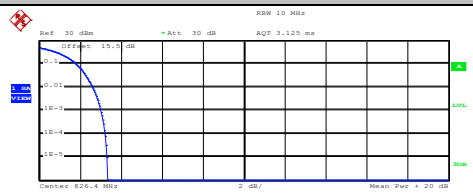
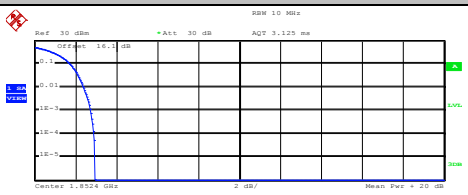
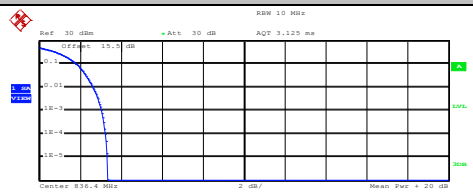
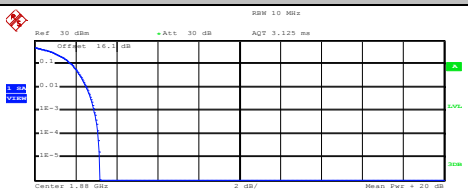
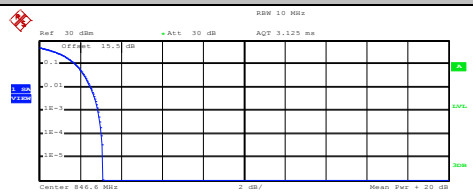
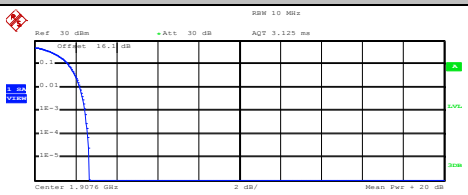
A3. WCDMA

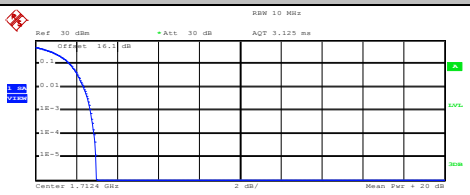
Peak-to-Average Ratio

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	3.04	2.72	2.68	PASS
Middle CH	3.04	2.92	2.44	
Highest CH	2.88	2.44	2.48	

WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	**Lowest Channel**
	
Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.95 dBm Peak 28.28 dBm Crest 3.33 dB 10 % 1.80 dB 1 % 2.60 dB .1 % 3.04 dB .01 % 3.24 dB	Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 23.65 dBm Peak 26.59 dBm Crest 2.94 dB 10 % 1.72 dB 1 % 2.40 dB .1 % 2.72 dB .01 % 2.88 dB
Date: 30.SEP.2016 11:56:50	Date: 30.SEP.2016 12:10:07
Middle Channel	**Middle Channel**
	
Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 24.81 dBm Peak 28.14 dBm Crest 3.33 dB 10 % 1.84 dB 1 % 2.64 dB .1 % 3.04 dB .01 % 3.24 dB	Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 23.68 dBm Peak 26.87 dBm Crest 3.19 dB 10 % 1.80 dB 1 % 2.52 dB .1 % 2.92 dB .01 % 3.12 dB
Date: 30.SEP.2016 11:57:06	Date: 30.SEP.2016 12:10:32
Highest Channel	**Highest Channel**
	
Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 25.03 dBm Peak 28.14 dBm Crest 3.11 dB 10 % 1.76 dB 1 % 2.52 dB .1 % 2.88 dB .01 % 3.04 dB	Complementary Cumulative Distribution Function (100000 samples) Trace 1 Mean 23.72 dBm Peak 26.38 dBm Crest 2.66 dB 10 % 1.64 dB 1 % 2.20 dB .1 % 2.44 dB .01 % 2.60 dB
Date: 30.SEP.2016 11:57:33	Date: 30.SEP.2016 12:10:49

WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel

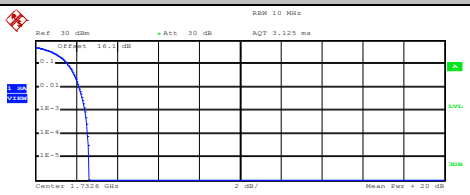


Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	24.32 dBm
Peak	27.29 dBm
Crest	2.97 dB
10 %	1.68 dB
1 %	2.36 dB
.1 %	2.68 dB
.01 %	2.88 dB

Date: 30.SEP.2016 13:51:33

Middle Channel

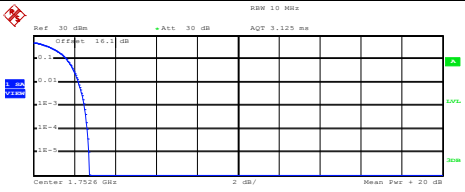


Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	24.31 dBm
Peak	26.94 dBm
Crest	2.63 dB
10 %	1.60 dB
1 %	2.16 dB
.1 %	2.44 dB
.01 %	2.56 dB

Date: 30.SEP.2016 13:51:46

Highest Channel



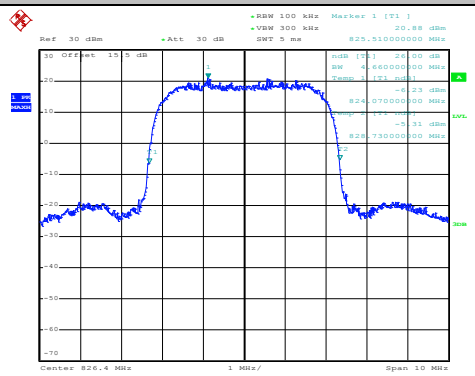
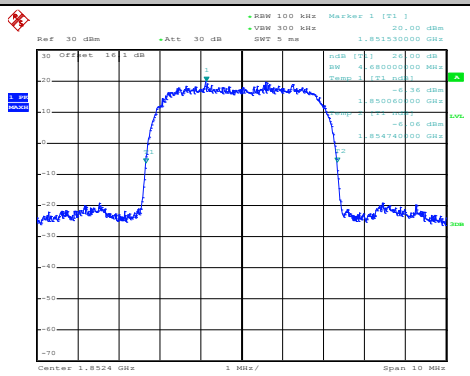
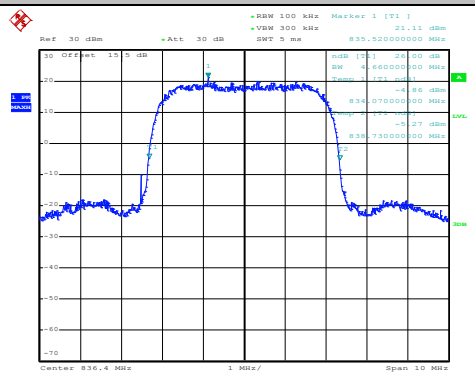
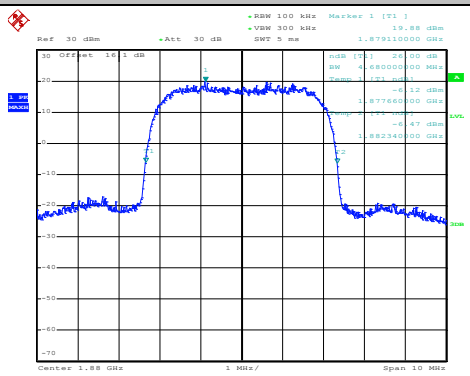
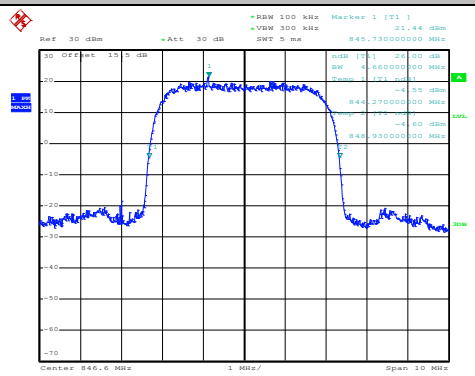
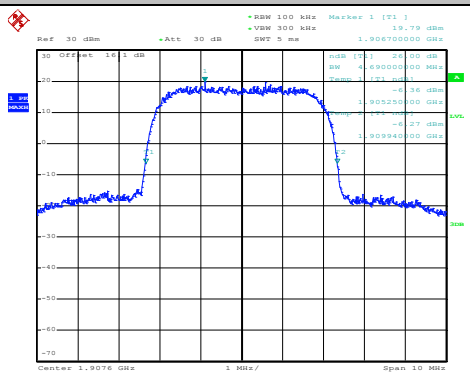
Complementary Cumulative Distribution Function (100000 samples)

	Trace 1
Mean	24.56 dBm
Peak	27.29 dBm
Crest	2.73 dB
10 %	1.64 dB
1 %	2.20 dB
.1 %	2.48 dB
.01 %	2.64 dB

Date: 30.SEP.2016 13:52:22

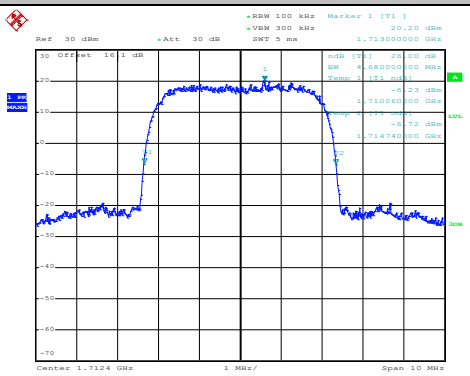
26dB Bandwidth

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.66	4.68	4.68
Middle CH	4.66	4.68	4.70
Highest CH	4.66	4.69	4.68

WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	**Lowest Channel**
	
Date: 30.SEP.2016 11:45:23	Date: 30.SEP.2016 11:59:08
Middle Channel	**Middle Channel**
	
Date: 30.SEP.2016 11:45:51	Date: 30.SEP.2016 11:59:36
Highest Channel	**Highest Channel**
	
Date: 30.SEP.2016 11:46:19	Date: 30.SEP.2016 12:00:04

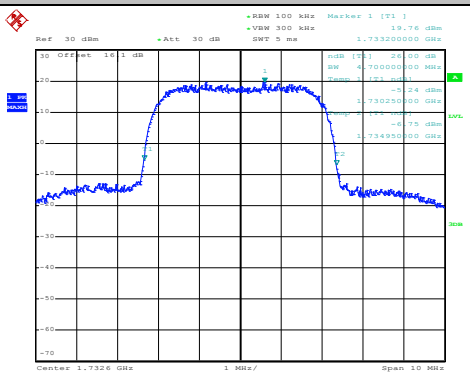
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



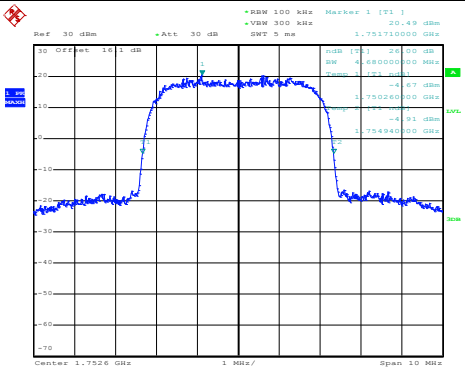
Date: 30.SEP.2016 12:11:57

Middle Channel



Date: 30.SEP.2016 12:12:25

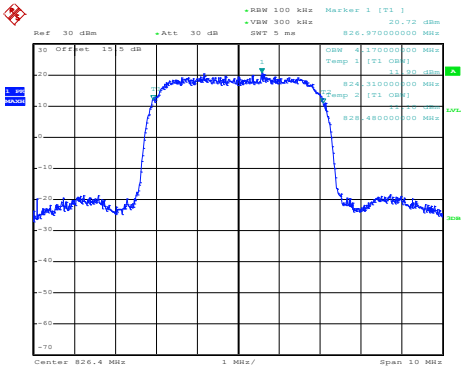
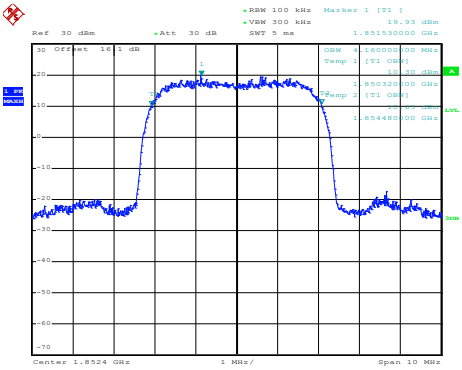
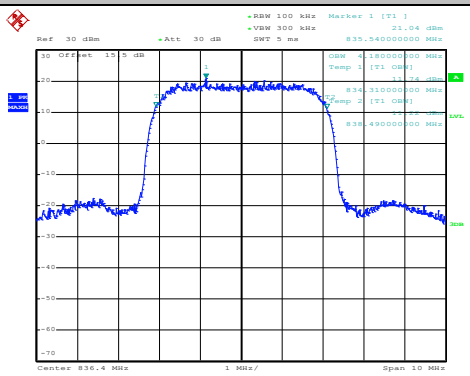
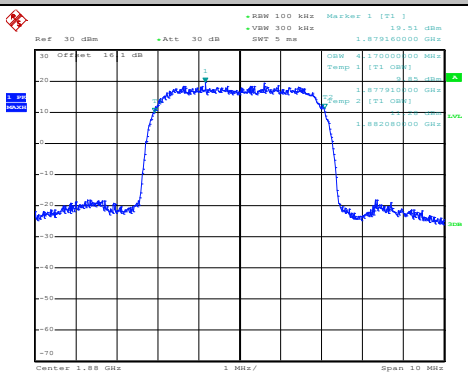
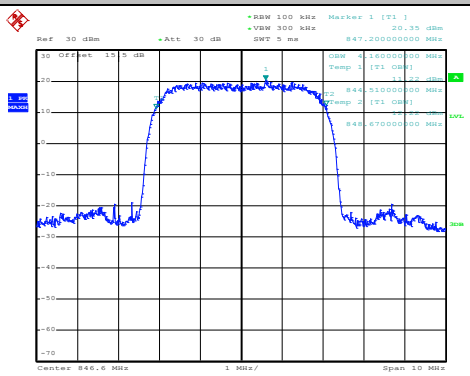
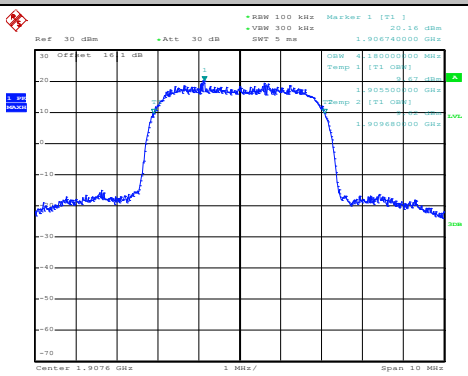
Highest Channel



Date: 30.SEP.2016 12:12:52

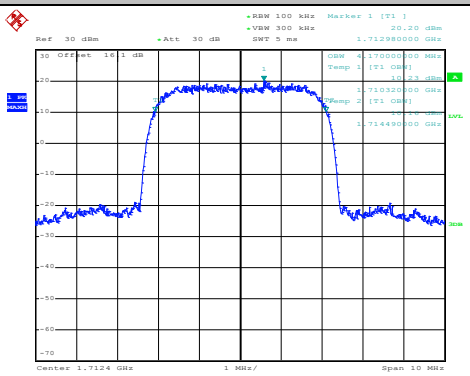
Occupied Bandwidth

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.17	4.16	4.17
Middle CH	4.18	4.17	4.19
Highest CH	4.16	4.18	4.17

WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	**Lowest Channel**
	
Date: 30.SEP.2016 11:46:50	Date: 30.SEP.2016 12:00:38
Middle Channel	**Middle Channel**
	
Date: 30.SEP.2016 11:47:18	Date: 30.SEP.2016 12:01:06
Highest Channel	**Highest Channel**
	
Date: 30.SEP.2016 11:47:46	Date: 30.SEP.2016 12:01:34

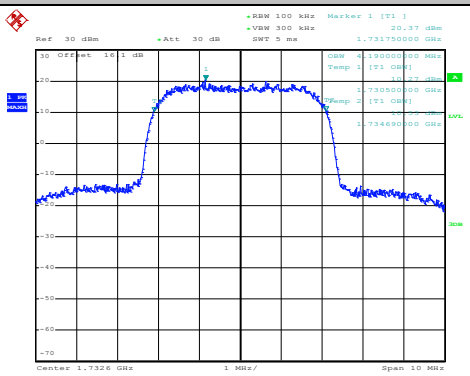
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



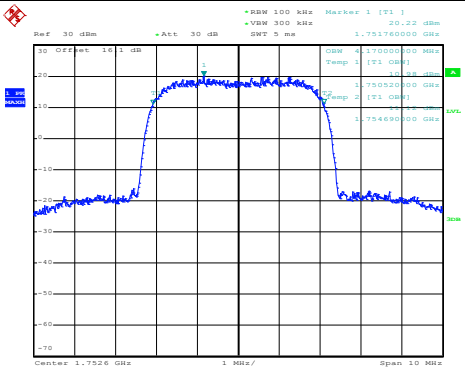
Date: 30.SEP.2016 12:13:24

Middle Channel



Date: 30.SEP.2016 12:13:52

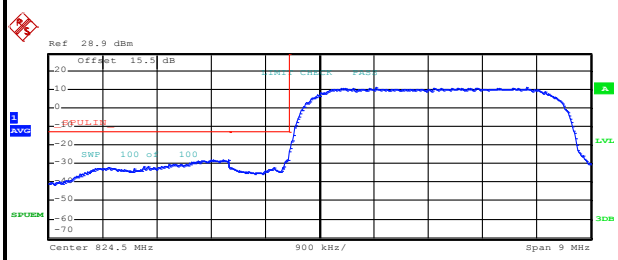
Highest Channel



Date: 30.SEP.2016 12:14:20

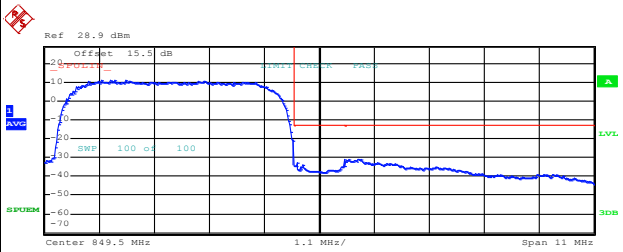
Conducted Band Edge

WCDMA Band V (RMC 12.2Kbps)	
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	822.985000 M	-27.84	-14.84
823.000 M	824.000 M	50.00 k	823.976000 M	-27.83	-14.83
824.000 M	829.000 M	100.00 k	825.435000 M	11.19	-23.81

Date: 30.SEP.2016 11:50:30

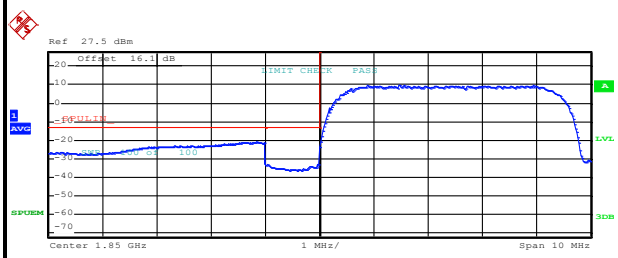


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
844.000 M	849.000 M	100.00 k	845.325000 M	11.30	-23.70
849.000 M	850.000 M	50.00 k	849.048000 M	-32.90	-19.90
850.000 M	855.000 M	100.00 k	850.255000 M	-30.76	-17.76

Date: 30.SEP.2016 11:53:12

WCDMA Band II (RMC 12.2Kbps)

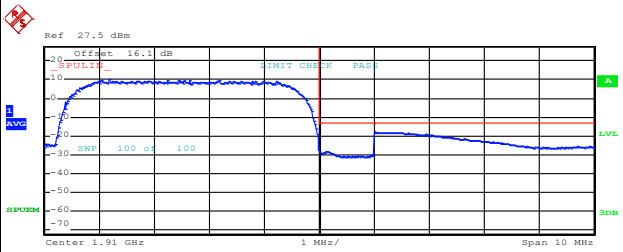
Lowest Band Edge



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.845 G	1.849 G	1.00 M	1.848844 G	-20.85	-7.85
1.849 G	1.850 G	50.00 k	1.849968 G	-33.01	-20.01
1.850 G	1.855 G	100.00 k	1.851460 G	9.82	-25.18

Date: 30.SEP.2016 12:04:39

Highest Band Edge

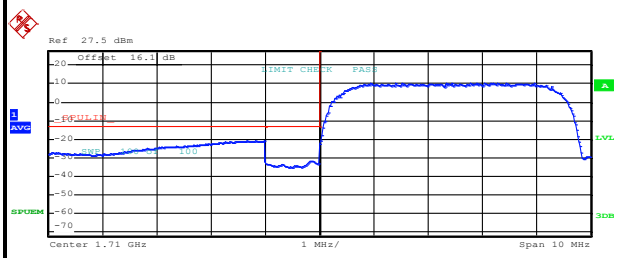


Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.905 G	1.910 G	100.00 k	1.906170 G	10.05	-24.95
1.910 G	1.911 G	50.00 k	1.910160 G	-28.25	-15.25
1.911 G	1.915 G	1.00 M	1.911012 G	-18.06	-5.06

Date: 30.SEP.2016 12:07:21

WCDMA Band IV (RMC 12.2Kbps)

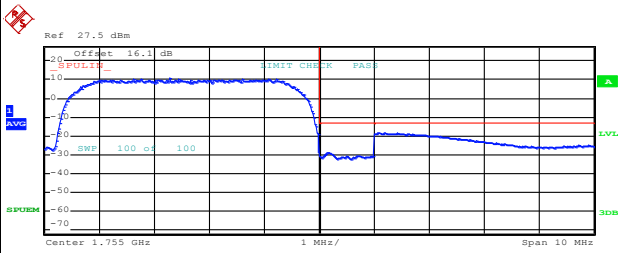
Lowest Band Edge



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.705 G	1.709 G	1.00 M	1.708988 G	-20.98	-7.98
1.709 G	1.710 G	50.00 k	1.709832 G	-31.65	-18.65
1.710 G	1.715 G	100.00 k	1.713045 G	10.24	-24.76

Date: 30.SEP.2016 12:17:11

Highest Band Edge



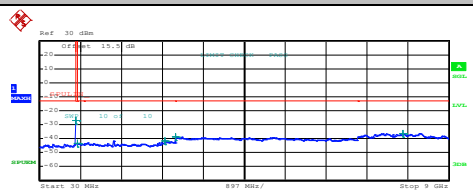
Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
1.750 G	1.755 G	100.00 k	1.752270 G	10.62	-24.38
1.755 G	1.756 G	50.00 k	1.755180 G	-28.62	-15.62
1.756 G	1.760 G	1.00 M	1.756180 G	-18.51	-5.51

Date: 30.SEP.2016 12:19:53

Conducted Spurious Emission

WCDMA Band V (RMC 12.2Kbps)

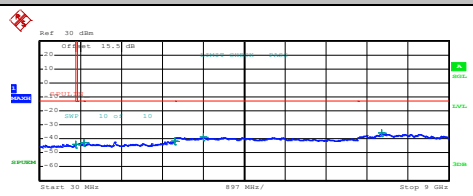
Lowest Channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	820.000 M	1.00 M	819.210000 M	-26.91	-13.91
855.000 M	1.000 G	1.00 M	857.682500 M	-43.28	-30.28
1.000 G	3.000 G	1.00 M	2.778000 G	-41.72	-28.72
3.000 G	7.000 G	1.00 M	3.015000 G	-38.60	-25.60
7.000 G	9.000 G	1.00 M	7.989500 G	-36.49	-23.49

Date: 30.SEP.2016 11:54:31

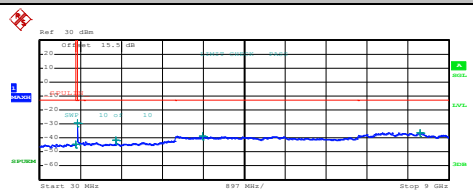
Middle Channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	820.000 M	1.00 M	817.630000 M	-43.81	-30.81
855.000 M	1.000 G	1.00 M	993.583760 M	-43.02	-30.02
1.000 G	3.000 G	1.00 M	2.992500 G	-41.70	-28.70
3.000 G	7.000 G	1.00 M	3.613000 G	-38.84	-25.84
7.000 G	9.000 G	1.00 M	7.535500 G	-35.59	-22.59

Date: 30.SEP.2016 11:55:17

Highest Channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	820.000 M	1.00 M	815.852500 M	-44.27	-31.27
855.000 M	1.000 G	1.00 M	855.108750 M	-29.13	-16.13
1.000 G	3.000 G	1.00 M	1.695500 G	-41.79	-28.79
3.000 G	7.000 G	1.00 M	3.607000 G	-38.44	-25.44
7.000 G	9.000 G	1.00 M	8.367000 G	-36.11	-23.11

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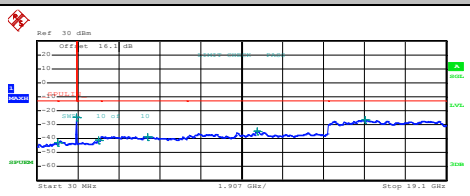
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	1.00 M	988.360000 M	-42.89	-29.89
1.000 G	1.845 G	1.00 M	1.844789 G	-24.88	-11.88
1.915 G	3.000 G	1.00 M	2.880650 G	-41.11	-28.11
3.000 G	7.000 G	1.00 M	5.166000 G	-38.50	-25.50
7.000 G	13.600 G	1.00 M	10.271125 G	-34.58	-21.58
13.600 G	19.100 G	1.00 M	15.308438 G	-26.30	-13.30

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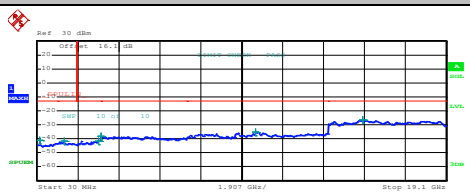
Middle Channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	1.00 M	141.065000 M	-40.85	-27.85
1.000 G	1.845 G	1.00 M	1.300186 G	-41.77	-28.77
1.915 G	3.000 G	1.00 M	2.880107 G	-41.41	-28.41
3.000 G	7.000 G	1.00 M	3.020000 G	-38.10	-25.10
7.000 G	13.600 G	1.00 M	10.212550 G	-35.25	-22.25
13.600 G	19.100 G	1.00 M	15.220437 G	-26.72	-13.72

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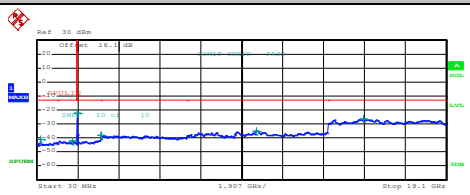
Highest Channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	1.00 M	170.165000 M	-41.23	-28.23
1.000 G	1.845 G	1.00 M	1.661213 G	-42.42	-29.42
1.915 G	3.000 G	1.00 M	1.915542 G	-22.28	-9.28
3.000 G	7.000 G	1.00 M	3.000000 G	-38.15	-25.15
7.000 G	13.600 G	1.00 M	10.248025 G	-35.09	-22.09
13.600 G	19.100 G	1.00 M	15.251375 G	-26.49	-13.49

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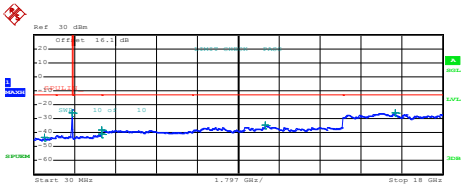
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	1.00 M	490.022500 M	-43.23	-30.23
1.000 G	1.705 G	1.00 M	1.704119 G	-25.92	-12.92
1.760 G	3.000 G	1.00 M	2.996590 G	-41.13	-28.13
3.000 G	7.000 G	1.00 M	3.013000 G	-38.00	-25.00
7.000 G	13.600 G	1.00 M	10.215025 G	-34.59	-21.59
13.600 G	18.000 G	1.00 M	15.905050 G	-25.75	-12.75

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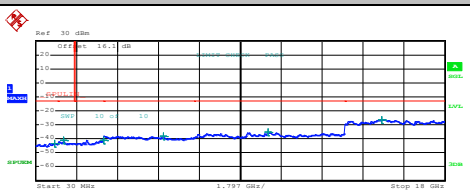
Middle Channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	1.00 M	854.742500 M	-43.23	-30.23
1.000 G	1.705 G	1.00 M	1.247808 G	-40.96	-27.96
1.760 G	3.000 G	1.00 M	2.995350 G	-40.85	-27.85
3.000 G	7.000 G	1.00 M	5.648000 G	-38.18	-25.18
7.000 G	13.600 G	1.00 M	10.245550 G	-35.30	-22.30
13.600 G	18.000 G	1.00 M	15.221400 G	-26.40	-13.40

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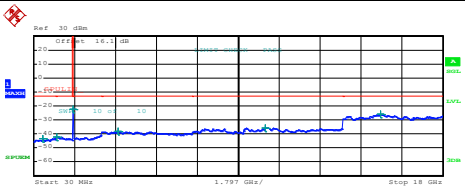
Highest Channel



Start [Hz]	Stop [Hz]	RBW [Hz]	Freq [Hz]	PwrAbs [dBm]	ΔLimit [dB]
30.000 M	1.000 G	1.00 M	436.672500 M	-43.23	-30.23
1.000 G	1.705 G	1.00 M	1.034016 G	-42.05	-29.05
1.760 G	3.000 G	1.00 M	1.760620 G	-22.30	-9.30
3.000 G	7.000 G	1.00 M	3.728000 G	-38.40	-25.40
7.000 G	13.600 G	1.00 M	10.215025 G	-35.60	-22.60
13.600 G	18.000 G	1.00 M	15.278050 G	-26.04	-13.04

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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	0.0012	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0000	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0215	
0	Normal Voltage	0.0203	
-10	Normal Voltage	0.0167	
-20	Normal Voltage	0.0167	
-30	Normal Voltage	0.0191	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0024	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0000	PASS
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0000	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0011	
0	Normal Voltage	0.0138	
-10	Normal Voltage	0.0149	
-20	Normal Voltage	0.0154	
-30	Normal Voltage	0.0154	
20	Maximum Voltage	0.0000	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	

Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0035	PASS
40	Normal Voltage	0.0023	
30	Normal Voltage	0.0035	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0265	
0	Normal Voltage	0.0260	
-10	Normal Voltage	0.0271	
-20	Normal Voltage	0.0265	
-30	Normal Voltage	0.0271	
20	Maximum Voltage	0.0000	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0006	

Note:

1. Normal Voltage = 3.85V. ；Battery End Point (BEP) = 3.6 V.；Maximum Voltage =4.4 V

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