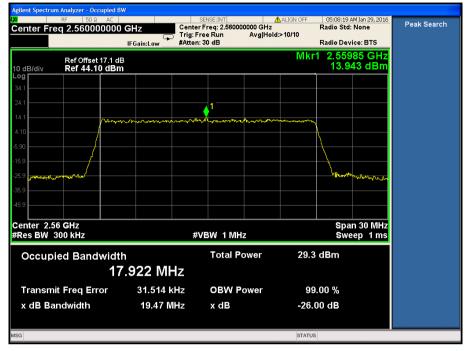


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4.3.4.8.3 Test Channel = HCH





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5 Band Edges Compliance

Part I - Test Plots

5.1 For GSM

5.1.1 Test Band = GSM850

- 5.1.1.1 Test Mode = GSM/TM1
- 5.1.1.1.1 Test Channel = LCH

Agilent Spect	rum Analyzer - Swept SA					
× RBW 5.1	RF 50 Ω AC		SENSE:EXT	Avg Type: RMS		Save State
10 dB/div	Ref Offset 16.8 dB Ref 36.80 dBm	PNO: Wide 🌩 IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold:>100/100	IRACE 12 3 4 5 6 TYPE MUMMUM Det NNNNNN kr1 824.000 MHz -15.088 dBm	To File
26.8						Edit Register Names
16.8 6.80			مريم مر			Register 1 (empty)
-3.20					-13.00 dBm	Register 2 (empty)
-23.2				- W		Register 3 (empty)
-43.2		مهلهمالين		<u> </u>		Register 4 (empty)
-53.2	24.000 MHz	apartely and and a			Span 2.000 MHz	More 1 of 3
#Res BW		#VBW /	15 kHz*	#Swee	p 1.000 s (1001 pts)	
ISG				STA	TUS	



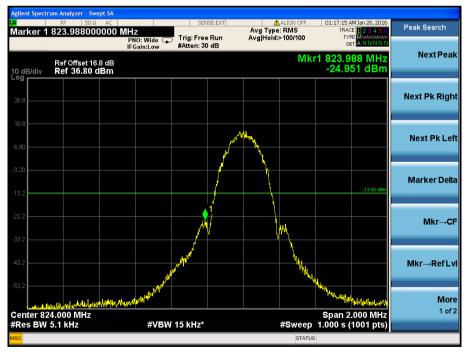
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ALIGN OFF Avg Type: RMS Avg|Hold:>100/100 Peak Search Marker 1 849.002000000 MHz Trig: Free Run #Atten: 30 dB TYP : Wide 🖵 IFGain:Low Next Peak Mkr1 849.002 MHz -14.217 dBm Ref Offset 16.8 dB Ref 36.80 dBm 10 dB/div Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→RefLv n hiterat More Center 849.000 MHz #Res BW 5.1 kHz Span 2.000 MHz #Sweep 1.000 s (1001 pts) 1 of 2 #VBW 15 kHz*

5.1.1.1.2 Test Channel = HCH

5.1.1.2 Test Mode = GSM/TM2

5.1.1.2.1 Test Channel = LCH





More

1 of 2

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ALIGN OFF Avg Type: RMS Avg|Hold:>100/100 Peak Search Marker 1 849.000000000 MHz Trig: Free Run #Atten: 30 dB TYP : Wide 🖵 IFGain:Low Next Peak Mkr1 849.000 MHz -27.942 dBm Ref Offset 16.8 dB Ref 36.80 dBm 10 dB/div Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→RefLv Center 849.000 MHz #Res BW 5.1 kHz Span 2.000 MHz #Sweep 1.000 s (1001 pts) #VBW 15 kHz*

5.1.1.2.2 Test Channel = HCH

5.1.2 Test Band = GSM1900

Test Mode = GSM/TM1 5.1.2.1

5.1.2.1.1 Test Channel = LCH







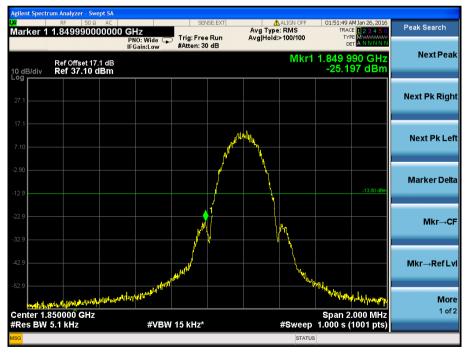
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ALIGN OFF Avg Type: RMS Avg|Hold:>100/100 Peak Search Marker 1 1.910004000000 GHz Trig: Free Run #Atten: 30 dB TYP : Wide 🖵 IFGain:Low Next Peak Mkr1 1.910 004 GHz -19.239 dBm Ref Offset 17.1 dB Ref 37.10 dBm 10 dB/div Next Pk Right Next Pk Left Marker Delta Mkr→CF Mkr→RefLv More Span 2.000 MHz #Sweep 1.000 s (1001 pts) 1 of 2 Center 1.910000 GHz #VBW 15 kHz* #Res BW 5.1 kHz

5.1.2.1.2 Test Channel = HCH

5.1.2.2 Test Mode = GSM/TM2

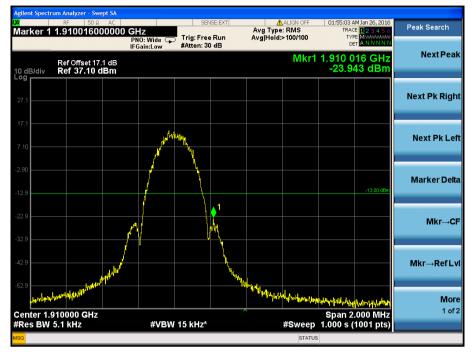
5.1.2.2.1 Test Channel = LCH





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5.1.2.2.2 Test Channel = HCH



5.2 For WCDMA

5.2.1 Test Band = WCDMA 850

5.2.1.1 Test Mode = UMTS/TM1

5.2.1.1.1 Test Channel = LCH





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5.2.1.1.2 Test Channel = HCH

Agilent Spectrum Analyzer - Swept SA					
Marker 1 849.00000000		SENSE:EXT	ALIGN OFF	03:17:17 AM Jan 26, 2016 TRACE 1 2 3 4 5 6	Peak Search
Ref Offset 16.8 dB	PNO: Wide 😱 IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold:>100/100	TRACE 123456 TYPE MWWWW Det NNNNN 1849.000 MHz -16.704 dBm	Next Peak
25.8					Next Pk Right
5.80					Next Pk Left
-4.20		1		-13.00 dBm	Marker Delta
-24.2					Mkr→CF
-44.2					Mkr→RefLvi
Center 849.000 MHz #Res BW 51 KHz	#VBW	150 kHz*	#Sweep	Span 2.000 MHz 1.000 s (1001 pts)	More 1 of 2
MSG			STATUS		

5.2.2 Test Band = WCDMA 1700

5.2.2.1 Test Mode = UMTS/TM1

5.2.2.1.1 Test Channel = LCH





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5.2.2.1.2 Test Channel = HCH

Agilent Spectrum Analyzer - Swept SA					
Marker 1 1.755000000000		Avg Type	RMS TRAC	PE MIAAAAAAA	k Search
Ref Offset 17.1 dB	IFGain:Low Atten: 30		Mkr1 1.755 0		Next Peak
26.8				Ne	kt Pk Right
6.80				N	ext Pk Left
-3.20	and the second			-13.00 dBm	arker Delta
-23.2		1			Mkr→CF
-43.2			الالى ^{وىر} ىرىتى بىلى بىلى بەرىپەيچىرى بىرمەسىي	MI	⟨r→RefLvl
Center 1.755000 GHz Res BW 18 kHz	VBW 1.8 kHz*		Span 2 #Sweep 1.000 s (.000 MHz 1001 pts)	More 1 of 2
MSG			STATUS		

5.2.3 Test Band = WCDMA 1900

5.2.3.1 Test Mode = UMTS/TM1

5.2.3.1.1 Test Channel = LCH





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5.2.3.1.2 Test Channel = HCH

Agilent Spectrum Ana									
Marker 1 1.91	50 Q AC				Avg Type Avg Hold:	ALIGN OFF	TRAC	M Jan 26, 2016 E 1 2 3 4 5 6 E M W W W W W	Peak Search
	Offset 17.1 dB 36.80 dBm	PNO: Wide 🖵 IFGain:Low	Atten: 30		Avginoid.		DI 1.910 0	00 GHz 00 dBm	Next Peak
26.8									Next Pk Right
6.80									Next Pk Left
-3.20	and the second se	and a second and a second as	and the second sec					-13.00 dBm	Marker Delta
-23.2				- Marine Marine					Mkr→CF
-43.2					have a second se	and a faith and the second of the	, daga sa	وجواف الإطريام ومجمع	Mkr→RefLvl
-53.2 Center 1.9100 Res BW 18 kH		VBW	1.8 kHz*			#Sweep	Span 2	.000 MHz 1001 pts)	More 1 of 2
MSG						STATUS			

5.3 For LTE

5.3.1 Test Band = LTE B2

5.3.1.1 Test Mode = LTE/TM1 1.4MHz

5.3.1.1.1 Test Channel = LCH





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5.3.1.1.2 Test Channel = HCH



5.3.1.2 Test Mode = LTE/TM2 1.4MHz

5.3.1.2.1 Test Channel = LCH





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5.3.1.2.2 Test Channel = HCH



5.3.1.3 Test Mode = LTE/TM1 3MHz

5.3.1.3.1 Test Channel = LCH





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5.3.1.3.2 Test Channel = HCH

Agilent Spect	rum Analyzer - Swept SA					
<mark>x</mark> Marker 1	RF 50 Q AC		SENSE:INT	Avg Type: RMS Avg Hold:>100/100	04:30:28 AM Mar 07, 2016 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET A N N N N N	Peak Search
10 dB/div Log	Ref Offset 17.1 dB Ref 36.80 dBm	PNO: Wide 🖵 IFGain:Low	Atten: 30 dB		1.910 000 GHz -27.969 dBm	Next Peak
26.8						Next Pk Right
6.80	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					Next Pk Lef
-3.20					-13.00 dBm	Marker Delta
33.2			1			Mkr→CF
43.2						Mkr→RefLv
-53.2 Center 1. #Res BW	910000 GHz 62 kHz	#VBW	180 kHz*	#Sweep	Span 6.000 MHz 1.000 s (1001 pts)	More 1 of 2
//SG				STATUS		

5.3.1.4 Test Mode = LTE/TM2 3MHz

5.3.1.4.1 Test Channel = LCH





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5.3.1.4.2 Test Channel = HCH

Agilent Spectrum Analyzer - Swept SA					
Marker 1 1.91000000000) GHz	SENSE:INT	ALIGN OFF Avg Type: RMS	05:14:51 AM Mar 07, 2016 TRACE 1 2 3 4 5 6	Measurements
Ref Offset 17.1 dB 10 dB/div Ref 36.80 dBm	PNO: Wide 😱 IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Hold:>100/100	1.910 000 GHz -27.963 dBm	Swept SA
					Channel Power
6.80		~~~~			Occupied BW
-3.20				-13.00 dBm	ACP
-23.2		1			Power Stat CCDF
-43.2					BurstPower
-53.2 Center 1.910000 GHz #Res BW 62 kHz	#\/B\M	180 kHz*	# B iyoon	Span 6.000 MHz 1.000 s (1001 pts)	More 1 of 2
MSG	#V DVV		#Sweep	-	

5.3.1.5 Test Mode = LTE/TM1 5MHz

5.3.1.5.1 Test Channel = LCH





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5.3.1.5.2 Test Channel = HCH

Agilent Spectrum Analyzer - Swept SA					
Marker 1 1.910000000000		ISE:INT Ava T	ALIGN OFF	04:41:56 AM Mar 07, 2016 TRACE 12.3.4.5.6	Save
	PNO: Wide IFGain:Low Atten: 30	Run Avg H	old:>100/100	TRACE 123456 TYPE MWWWWW DET ANNNNN	State►
Ref Offset 17.1 dB 10 dB/div Ref 36.80 dBm			Mkr	1 1.910 00 GHz -25.154 dBm	State
26.8					Trace (+ State)
16.8					
6.80	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
-3.20				-13.00 dBm	Data (Export) ► Trace 1
-13.2		1		-10,00 000	Screen
-33.2					Image
-43.2					
-53.2					
Center 1.910000 GHz #Res BW 100 kHz	#VBW 300 kHz*	*	#Sweep	Span 10.00 MHz 1.000 s (1001 pts)	
MSG			STATUS		

5.3.1.6 Test Mode = LTE/TM2 5MHz

5.3.1.6.1 Test Channel = LCH







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5.3.1.6.2 Test Channel = HCH

Agilent Spectrum Analyzer - Swept SA				
RF 50 Ω AC Marker 1 1.910000000000		Avg Type: RMS Avg Hold:>100/100	05:20:07 AM Mar 07, 2016 TRACE 1 2 3 4 5 6	Peak Search
Ref Offset 17.1 dB 10 dB/div Ref 36.80 dBm	PNO: Wide Trig: Free Run IFGain:Low Atten: 30 dB	.	1 1.910 00 GHz -25.453 dBm	Next Peak
26.8				Next Pk Right
6.80	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			Next Pk Left
-3.20			-13.00 dBm	Marker Delta
-23.2	1			Mkr→CF
-43.2				Mkr→RefLv
-53.2 Center 1.910000 GHz ^ #Res BW 100 kHz	#VBW 300 kHz*	#Sween	Span 10.00 MHz 1.000 s (1001 pts)	More 1 of 2
NSG		STATUS	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

5.3.1.7 Test Mode = LTE/TM1 10MHz

5.3.1.7.1 Test Channel = LCH





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5.3.1.7.2 Test Channel = HCH

Agilent Spectrum Analyzer - Swept SA				
κε 50 Ω AC Marker 1 1.910000000000	PNO: East 🕟 Trig: Free Ru	Avg Type: RMS	04:47:02 AM Mar 07, 2016 TRACE 123456 TYPE MWANAAAAA DET A N N N N N	Peak Search
Ref Offset 17.1 dB 10 dB/div Ref 36.80 dBm	IFGain:Low Atten: 30 dB	Mkr	1 1.910 00 GHz -31.721 dBm	Next Peak
26.8				Next Pk Right
6.80				Next Pk Left
-3.20			-13.00 dBm	Marker Delta
-23.2				Mkr→CF
-43.2				Mkr→RefLvl
-53.2 Center 1.91000 GHz #Res BW 200 kHz	#VBW 620 kHz*	#Sweep	Span 20.00 MHz 1.000 s (1001 pts)	More 1 of 2
MSG		STATU		

5.3.1.8 Test Mode = LTE/TM2 10MHz

5.3.1.8.1 Test Channel = LCH





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5.3.1.8.2 Test Channel = HCH

Agilent Spectrum Analyzer - Swept SA					
Marker 1 1.9100000000		SENSE:INT	ALIGN OFF	05:24:49 AM Mar 07, 2016 TRACE 1 2 3 4 5 6 TYPE MWWWWW	Peak Search
Ref Offset 17.1 dE	PNO: Fast 🖵 IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Hold:>100/100	1 1.910 00 GHz -31.872 dBm	Next Peak
26.8					Next Pk Right
6.80					Next Pk Left
-3.20				-13.00 dBm	Marker Delta
-23.2					Mkr→CF
-43.2					Mkr→RefLvl
-53.2 Center 1.91000 GHz #Res BW 200 kHz	#VBW	620 kHz*	#Sweep	Span 20.00 MHz 1.000 s (1001 pts)	More 1 of 2
MSG			STATUS		

5.3.1.9 Test Mode = LTE/TM1 15MHz

5.3.1.9.1 Test Channel = LCH





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5.3.1.9.2 Test Channel = HCH

gilent Spectrum Analyzer - Swept SA				
arker 1 1.910000000000	CHZ PNO: Fast C Trig: Free Run	Avg Type: RMS Avg Hold:>100/100	04:52:50 AM Mar 07, 2016 TRACE 1 2 3 4 5 6 TYPE MWAWAWA	Peak Search
Ref Offset 17.1 dB 0 dB/div Ref 36.80 dBm	IFGain:Low Atten: 30 dB		Det ANNNNN 1.910 00 GHz -30.285 dBm	Next Peal
26.8				Next Pk Righ
5.80				Next Pk Le
3.20			-13.00 dBm	Marker Delt
32				Mkr→C
3.2				Mkr→RefL
892 Senter 1.91000 GHz Res BW 300 kHz	#VBW 910 kHz*	#Sween	Span 30.00 MHz 1.000 s (1001 pts)	Mor 1 of
5G		STATUS		

5.3.1.10 Test Mode = LTE/TM2 15MHz

5.3.1.10.1Test Channel = LCH





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5.3.1.10.2Test Channel = HCH



5.3.1.11 Test Mode = LTE/TM1 20MHz

5.3.1.11.1Test Channel = LCH





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5.3.1.11.2Test Channel = HCH

Agilent Spectrum Analyzer - Swept SA				
(X) RF 50 Ω AC Marker 1 1.9100000000000	PNO: East Trig: Free Run	Avg Type: RMS Avg Hold:>100/100	05:01:45 AM Mar 07, 2016 TRACE 1 2 3 4 5 6 TYPE MWWWWW	Peak Search
Ref Offset 17.1 dB 10 dB/div Ref 36.80 dBm	IFGain:Low Atten: 30 dB	Mkr	Det ANNNNN 1 1.910 00 GHz -33.031 dBm	Next Peak
26.8				Next Pk Right
6.80				Next Pk Left
-3.20			-13.00 dBm	Marker Delta
-23.2	1			Mkr→CF
-43.2				Mkr→RefLvl
-53.2 Center 1.91000 GHz #Res BW 390 kHz	#VBW 1.2 MHz*	#Sween	Span 40.00 MHz 1.000 s (1001 pts)	More 1 of 2
MSG JFile <band edge-20.state=""></band>		STATUS	noor s (roor prs)	

5.3.1.12 Test Mode = LTE/TM2 20MHz

5.3.1.12.1Test Channel = LCH





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5.3.1.12.2Test Channel = HCH



5.3.2 Test Band = LTE B4

5.3.2.1 Test Mode = LTE/TM1 1.4MHz

5.3.2.1.1 Test Channel = LCH





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5.3.2.1.2 Test Channel = HCH



5.3.2.2 Test Mode = LTE/TM2 1.4MHz

5.3.2.2.1 Test Channel = LCH





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5.3.2.2.2 Test Channel = HCH



5.3.2.3 Test Mode = LTE/TM1 3MHz

5.3.2.3.1 Test Channel = LCH





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5.3.2.3.2 Test Channel = HCH

Agilent Spectrum Analyzer - Sw					
₩ RF 50 Ω Marker 1 1.7550000		SENSE:INT	ALIGN OFF Avg Type: RMS	06:15:38 AM Mar 07, 2016 TRACE 1 2 3 4 5 6	Peak Search
Ref Offset 17 10 dB/div Ref 36.80 d	PNO: Wide 🆵 IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Hold:>100/100	1.755 000 GHz -25.214 dBm	Next Peak
26.8					Next Pk Right
6.80		~~~~			Next Pk Left
-3.20				-13.00 dBm	Marker Delta
-23.2		1			Mkr→CF
-43.2					Mkr→RefLvl
-53.2 Center 1.755000 GHz #Res BW 62 kHz	#\/B)A(180 kHz*	#Sween	Span 6.000 MHz 1.000 s (1001 pts)	More 1 of 2
MSG	#VBW	100-1112	STATUS		

5.3.2.4 Test Mode = LTE/TM2 3MHz

5.3.2.4.1 Test Channel = LCH







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5.3.2.4.2 Test Channel = HCH

Agilent Spect	rum Analyzer - Swept SA						
Marker 1	RF 50 Ω AC	GHz	SENSE:INT	Avg Typ	ALIGN OFF	06:52:29 AM Mar 07, 20 TRACE 12345	Peak Search
10 dB/div	Ref Offset 17.1 dB Ref 36.80 dBm	PNO: Wide 🖵 IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Hold	:>100/100 Mkr1	1.755 000 GH -26.311 dBr	Next Peak
26.8							Next Pk Right
16.8 6.80			~~~~				Next Pk Left
-3.20						-13.00 dE	Marker Delta
-23.2			1				Mkr→CF
-33.2							Mkr→RefLvl
-53.2	755000 GHz					Span 6.000 MH	More 1 of 2
#Res BW		#VBW	180 kHz*		#Sweep	1.000 s (1001 pt	5)
MSG					STATUS	3	

5.3.2.5 Test Mode = LTE/TM1 5MHz

5.3.2.5.1 Test Channel = LCH





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5.3.2.5.2 Test Channel = HCH

Igilent Spectrum Analyzer - Swept SA					
Marker 1 1.75500000000	0 GHz	SENSE:INT	ALIGN OFF	06:25:49 AM Mar 07, 2016 TRACE 1 2 3 4 5 6	Trace/Detector
	PNO: Wide IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Hold:>100/100	DET A N N N N N	Select Trace
Ref Offset 17.1 dB I0 dB/div Ref 36.80 dBm			Mkr	1 1.755 00 GHz -24.389 dBm	1
26.8					Clear Write
16.8					
6.80					Trace Average
-3.20					
-13.2				-13.00 dBm	Max Hold
-23.2					
-33.2					Min Hold
-43.2					View Blank
-63.2					Trace On
Center 1.755000 GHz				Span 10.00 MHz	More
Res BW 100 kHz	#VBW	300 kHz*	#Sweep	1.000 s (1001 pts)	1 of 3
ISG			STATUS		

5.3.2.6 Test Mode = LTE/TM2 5MHz

5.3.2.6.1 Test Channel = LCH





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5.3.2.6.2 Test Channel = HCH

Agilent Spectrum Analyzer - Swept SA				
KF 50 Ω AC Marker 1 1.755000000000	GHz	E:INT AVG Type: RM Run Avg Hold:>100	IS TRACE 1 2 3 4 5 6	Peak Search
Ref Offset 17.1 dB	PNO: Wide Trig: Free IFGain:Low Atten: 30 d		Mkr1 1.755 00 GHz -25.486 dBm	Next Peak
26.8				Next Pk Right
6.80				Next Pk Left
-3.20			-13.00 dBm	Marker Delta
-23.2		1		Mkr→CF
-43.2				Mkr→RefLvl
-53.2 Center 1.755000 GHz #Res BW 100 kHz	#VBW 300 kHz*	#81	Span 10.00 MHz weep 1.000 s (1001 pts)	More 1 of 2
MSG	#1011 000 ki12		STATUS	

5.3.2.7 Test Mode = LTE/TM1 10MHz

5.3.2.7.1 Test Channel = LCH





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5.3.2.7.2 Test Channel = HCH

Agilent Spectrum Analyzer - Swept SA				
Marker 1 1.755000000000	GHZ PN0: Fast C Trig: Free Run	ALIGN OFF Avg Type: RMS Avg Hold:>100/100	06:30:37 AM Mar 07, 2016 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET A N N N N N	Peak Search
Ref Offset 17.1 dB 10 dB/div Ref 36.80 dBm	IFGain:Low Atten: 30 dB		1 1.755 00 GHz -29.239 dBm	Next Peak
26.8				Next Pk Right
6.80				Next Pk Left
-3.20			-13.00 dBm	Marker Delta
23.2	1			Mkr→CF
43.2				Mkr→RefLv
-53.2 Center 1.75500 GHz			Span 20.00 MHz	More 1 of 2
#Res BW 200 kHz	#VBW 620 kHz*	#Sweep	1.000 s (1001 pts)	

5.3.2.8 Test Mode = LTE/TM2 10MHz

5.3.2.8.1 Test Channel = LCH





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5.3.2.8.2 Test Channel = HCH

Agilent Spectrum Analyzer - Sw					
₩ RF 50 Ω Marker 1 1.7550000	AC 00000 GHz	SENSE:INT	ALIGN OFF	07:02:48 AM Mar 07, 2016 TRACE 123456 TYPE MWWWWW	Peak Search
Ref Offset 17	PN0: Fast FGain:Low	Trig: Free Run Atten: 30 dB	Avg Hold:>100/100	1 1.755 00 GHz -30.105 dBm	Next Peak
26.8					Next Pk Right
6.80					Next Pk Left
-3.20				-13.00 dBm	Marker Delta
-23.2		1			Mkr→CF
-43.2					Mkr→RefLvl
-53.2 Center 1.75500 GHz #Res BW 200 kHz	#VBW	620 kHz*	#Sweep	Span 20.00 MHz 1.000 s (1001 pts)	More 1 of 2
MSG			STATUS		

5.3.2.9 Test Mode = LTE/TM1 15MHz

5.3.2.9.1 Test Channel = LCH





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5.3.2.9.2 Test Channel = HCH

Agilent Spectro	um Analyzer - Swept SA						
Warker 1	RF 50 Ω AC 1.7550000000000		SENSE:INT	Avg Type: F Avg Hold:>1		06:34:57 AM Mar 07, 2016 TRACE 1 2 3 4 5 6 TYPE MWWWW DET A N N N N N	Peak Search
10 dB/div	Ref Offset 17.1 dB Ref 36.80 dBm	PNO: Fast 🖵 IFGain:Low	Atten: 30 dB	Avginou.>1		Det ANNNNN 1 1.755 00 GHz -28.095 dBm	Next Peak
26.8							Next Pk Right
6.80							Next Pk Left
-3.20						-13.00 dBm	Marker Delta
-23.2							Mkr→CF
-33.2						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Mkr→RefLvl
	75500 GHz					Span 30.00 MHz	More 1 of 2
#Res BW	300 kHz	#VBW	910 kHz*	#	Sweep STATUS	1.000 s (1001 pts)	
130					STATUS		

5.3.2.10 Test Mode = LTE/TM2 15MHz

5.3.2.10.1Test Channel = LCH





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5.3.2.10.2Test Channel = HCH



5.3.2.11 Test Mode = LTE/TM1 20MHz

5.3.2.11.1Test Channel = LCH





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5.3.2.11.2Test Channel = HCH

Agilent Spectrum Analyzer - Swept SA					
Marker 1 1.755000000000	GHz	SENSE:INT	ALIGN OFF	06:39:52 AM Mar 07, 2016 TRACE 1 2 3 4 5 6	Peak Search
Ref Offset 17.1 dB	PNO: East 🕞 Tri	g: Free Run ten: 30 dB	Avg Hold:>100/100 Mki	TRACE 123456 TYPE MUNITORN DET ANNNNN 111.75500 GHz -31.246 dBm	Next Peak
26.8					Next Pk Right
6.80		~			Next Pk Left
-3.20				-13,00 dBm	Marker Delta
-23.2		1			Mkr→CF
-43.2					Mkr→RefLvl
Center 1.75500 GHz #Res BW 390 kHz	#VBW 1.2	MHz*	#Sweep	Span 40.00 MHz 1.000 s (1001 pts)	More 1 of 2
MSG			STATU		

5.3.2.12 Test Mode = LTE/TM2 20MHz

5.3.2.12.1Test Channel = LCH





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5.3.2.12.2Test Channel = HCH

Agilent Spectrum Analyzer - Swept SA				
Marker 1 1.755000000000		Avg Type: RMS	07:14:32 AM Mar 07, 2016 TRACE 1 2 3 4 5 6 TYPE MWWWW DET A N N N N N	Peak Search
Ref Offset 17.1 dB 10 dB/div Ref 36.80 dBm	PNO: Fast 🏹 Trig: Free Run IFGain:Low Atten: 30 dB	Avg Hold:>100/100	1 1.755 00 GHz -31.152 dBm	Next Peak
26.8				Next Pk Right
6.80				Next Pk Left
-3.20			-13.00 dBm	Marker Delta
-23.2				Mkr→CF
-43.2				Mkr→RefLv
-53.2 Center 1.75500 GHz #Res BW 390 kHz	#VBW 1.2 MHz*	#Sween	Span 40.00 MHz 1.000 s (1001 pts)	More 1 of 2
#Res BW 390 KHZ		#Sweep		

5.3.3 Test Band = LTE B5

5.3.3.1 Test Mode = LTE/TM1 1.4MHz

5.3.3.1.1 Test Channel = LCH





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5.3.3.1.2 Test Channel = HCH



5.3.3.2 Test Mode = LTE/TM2 1.4MHz

5.3.3.2.1 Test Channel = LCH







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5.3.3.2.2 Test Channel = HCH



5.3.3.3 Test Mode = LTE/TM1 3MHz

5.3.3.3.1 Test Channel = LCH





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5.3.3.3.2 Test Channel = HCH

	NO: Wide 🕟 Trig: I	SENSE:INT Free Run : 30 dB	Avg Type: Avg Hold:>	100/100	TRACE TYPE DET 1 849.00	Mar 07, 2016 1 2 3 4 5 6 M W W W W W A N N N N N 0 MHz 1 dBm	Peak Search Next Peak
Ref Offset 17.1 dB Ref 36.80 dBm	NO: Wide 😱 Trig: I		Avg Hold:>		1 849.00	DO MHz	Next Peak
							Next Pk Right
6.80							Next Pk Left
-3.20						-13.00 dBm	Marker Delta
-23.2		1					Mkr→CF
43.2					~~~~		Mkr→RefLv
-53.2 Center 849.000 MHz	#VEW(400 /			#0	Span 6.0	000 MHz	More 1 of 2
#Res BW 62 kHz	#VBW 180 k	INZ"		#Sweep	1.000 s (1	oo1 pts)	

5.3.3.4 Test Mode = LTE/TM2 3MHz

5.3.3.4.1 Test Channel = LCH





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5.3.3.4.2 Test Channel = HCH



5.3.3.5 Test Mode = LTE/TM1 5MHz

5.3.3.5.1 Test Channel = LCH





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5.3.3.5.2 Test Channel = HCH

Agilent Spectrum Analyzer - Swept SA		SE:INT		07/02/44 4444-07-0246	
Marker 1 849.0000000000	//Hz	Avg Typ		07:33:44 AM Mar 07, 2016 TRACE 1 2 3 4 5 6 TYPE M	Peak Search
Ref Offset 17.1 dB 10 dB/div Ref 36.80 dBm	PNO: Wide F Trig: Free IFGain:Low Atten: 30			cr1 849.00 MHz -25.652 dBm	Next Peak
26.8					Next Pk Right
6.80	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				Next Pk Lef
3.20				-13.00 dBm	Marker Delta
23.2		1			Mkr→Cl
43.2					Mkr→RefLv
^{53.2} Center 849.000 MHz #Res BW 100 kHz	#VBW 300 kHz*		#Sween	Span 10.00 MHz 1.000 s (1001 pts)	More 1 of 2
ISG			STATUS		

5.3.3.6 Test Mode = LTE/TM2 5MHz

5.3.3.6.1 Test Channel = LCH





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5.3.3.6.2 Test Channel = HCH

Agilent Spectrum Analyzer - Swept SA				
Marker 1 849.000000000 Ν		Avg Type: RMS Avg Hold:>100/100	08:14:09 PM Mar 07, 2016 TRACE 1 2 3 4 5 6	Peak Search
Ref Offset 17.1 dB	PNO: Wide Trig: Free Run IFGain:Low Atten: 30 dB		r1 849.00 MHz -26.553 dBm	Next Peak
26.8				Next Pk Right
6.80				Next Pk Left
-3.20			-13.00 dBm	Marker Delta
-23.2	1			Mkr→CF
-43.2				Mkr→RefLvl
-53.2 Center 849.000 MHz #Res BW 100 kHz	#VBW 300 kHz*	#Sweep	Span 10.00 MHz 1.000 s (1001 pts)	More 1 of 2
MSG		STATUS		

5.3.3.7 Test Mode = LTE/TM1 10MHz

5.3.3.7.1 Test Channel = LCH





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5.3.3.7.2 Test Channel = HCH

Agilent Spect	rum Analyzer - Swept SA RF 50 Ω AC								
Center F	req 849.000000 I			E:INT	Avg Type Avg Hold:	ALIGN OFF		M Mar 07, 2016 E 123456 E M MANANA T A N N N N N	Align Now
		PNO: Fast 🖵 IFGain:Low	Atten: 30		Avginola:	>100/100	De	ANNNN	
10 dB/div Log	Ref Offset 17.1 dB Ref 36.80 dBm					M	kr1 824.	00 MHz dBm	All
									All but RF
26.8									All DUL RF
16.8									
									RF
6.80									
3.20									
13.2								-13.00 dBm	
13.2									
23.2 <mark>1</mark> —									
.33.2									
43.2									
53.2									
	19.00 MHz 200 kHz	#\/B\/	620 kHz*			#Sween	Span 2	0.00 MHz 1001 pts)	
			020 MHZ			STATUS		roor pts)	

5.3.3.8 Test Mode = LTE/TM2 10MHz

5.3.3.8.1 Test Channel = LCH





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5.3.3.8.2 Test Channel = HCH



5.3.4 Test Band = LTE B7

5.3.4.1 Test Mode = LTE/TM1 5MHz

5.3.4.1.1 Test Channel = LCH





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5.3.4.1.2 Test Channel = HCH

Agilent Spectrum Analyzer - Swept SA					
Marker 1 2.570000000000	GH ₇	Avg Type	e: RMS	3:35:42 PM Mar 07, 2016 TRACE 1 2 3 4 5 6	Peak Search
Ref Offset 17.1 dB 10 dB/div Ref 36.80 dBm	PNO: Wide Trig: Free IFGain:Low Atten: 30		Mkr1 2	TRACE 12 3 4 5 6 TYPE MWWWWW DET ANNNNN 570 00 GHz 24.555 dBm	Next Peak
26.8					Next Pk Right
6.80					Next Pk Left
-3.20				-13.00 dBm	Marker Delta
-23.2		1			Mkr→CF
-43.2					Mkr→RefLvl
-53.2 Center 2.570000 GHz			SI #2::::::::::::::::::::::::::::::::::::	pan 10.00 MHz	More 1 of 2
#Res BW 100 kHz	#VBW 300 kHz*		#Sweep 1.0	00 s (1001 pts)	

5.3.4.2 Test Mode = LTE/TM2 5MHz

5.3.4.2.1 Test Channel = LCH





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5.3.4.2.2 Test Channel = HCH

Agilent Spectrum Analyzer - Swept SA							
Center Freq 2.570000000	GHz	SENSE:INT	Avg Type	ALIGN OFF		M Mar 07, 2016	Frequency
Ref Offset 17.1 dB	PNO: Wide 🕟 Trig: F	Free Run : 30 dB	Avg Hold:	>100/100	□ 1 2.500	00 GHz	Auto Tune
26.8							Center Freq 2.570000000 GHz
6.80							Start Freq 2.565000000 GHz
-3.20						-13.00 dBm	Stop Freq 2.575000000 GHz
-23.2 ¥							CF Step 1.000000 MHz <u>Auto</u> Man
-43.2					han the second s	d, Judge Blindpor	Freq Offset 0 Hz
Center 2.570000 GHz #Res BW 100 kHz	#VBW 300 k	H7*		#Sween	Span 1	0.00 MHz 1001 pts)	
MSG	- #4044 300 K	1112		status	1.000-5 (roo i pis)	

5.3.4.3 Test Mode = LTE/TM1 10MHz

5.3.4.3.1 Test Channel = LCH





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5.3.4.3.2 Test Channel = HCH

	Analyzer - Swept SA								
	RF 50 Ω AC			SE:INT	Avg Type Avg Hold:	ALIGN OFF	TRAC	M Mar 07, 2016 E 1 2 3 4 5 6 E M WANNAM	Peak Search
10 dB/div R	ef Offset 17.1 dB ef 36.80 dBm	PNO: Fast 🖵 IFGain:Low	Atten: 30		Avginola		□ 1 2.570	00 GHz 77 dBm	Next Peak
og									Next Pk Righ
5.80									Next Pk Le
3.20								-13.00 dBm	Marker Delt
33.2				1					Mkr→C
3.2									Mkr→RefLv
53.2 Center 2.570 Res BW 200		#VBW	620 kHz*			#Sweep	Spân 2 1.000 s (0.00 MHz 1001 pts)	Mor 1 of
SG						STATUS			

5.3.4.4 Test Mode = LTE/TM2 10MHz

5.3.4.4.1 Test Channel = LCH







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5.3.4.4.2 Test Channel = HCH



5.3.4.5 Test Mode = LTE/TM1 15MHz

5.3.4.5.1 Test Channel = LCH





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5.3.4.5.2 Test Channel = HCH

Agilent Spect	rum Analyzer - Swept SA					
Marker 1	RF 50 Ω AC 2.57000000000000000000000000000000000000	GHz	SENSE:INT	ALIGN OFF Avg Type: RMS	08:50:32 PM Mar 07, 2016 TRACE 1 2 3 4 5 6 TYPE M WWWWW	Align Now
		PNO: Fast 🖵 IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Hold:>100/100	DET A N N N N	
10 dB/div Log	Ref Offset 17.1 dB Ref 36.80 dBm			Mkr	1 2.570 00 GHz -28.711 dBm	All
26.8						All but RF
16.8						
6.80						RF
-3.20						
-13.2					-13.00 dBm	
-23.2						
-43.2						
-53.2						
	57000 GHz 300 kHz	#VBW	910 kHz*	#Sweep	Span 30.00 MHz 1.000 s (1001 pts)	
MSG				STATUS		

5.3.4.6 Test Mode = LTE/TM2 15MHz

5.3.4.6.1 Test Channel = LCH





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5.3.4.6.2 Test Channel = HCH

Agilent Spect	rum Analyzer - Swept SA					
<mark>.×</mark> Marker 1	RF 50 Ω AC) GHz	SENSE:INT	ALIGN OFF	09:12:42 PM Mar 07, 2016 TRACE 1 2 3 4 5 6	Save
		PNO: Fast 🕞 IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Hold:>100/100	TRACE 123456 TYPE MWWWWW DET A NNNNN	_
10 dB/div	Ref Offset 17.1 dB Ref 36.80 dBm			Mkr	1 2.570 00 GHz -31.182 dBm	State►
26.8						Trace (+ State)
16.8						
6.80						
-3.20					-13.00 dBm	Data (Export) ► Trace 1
-23.2			1			Screen Image
-33.2						inage
-43.2					and a second and a second and a second	
Center 2. #Res BW	57000 GHz 300 kHz	#VBW	910 kHz*	#Sweep	Span 30.00 MHz 1.000 s (1001 pts)	
WSG				STATUS		

5.3.4.7 Test Mode = LTE/TM1 20MHz

5.3.4.7.1 Test Channel = LCH





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5.3.4.7.2 Test Channel = HCH

Agilent Spectrum Analyzer - Swept SA					
Marker 1 2.570000000000	GHz	Avg Typ		08:57:34 PM Mar 07, 2016 TRACE 1 2 3 4 5 6 TYPE MUMANANAN	Peak Search
Ref Offset 17.1 dB 10 dB/div Ref 36.80 dBm	PNO: Fast Trig: Free IFGain:Low Atten: 30			2.570 00 GHz -30.734 dBm	Next Peak
26.8					Next Pk Right
6.80					Next Pk Left
-3.20				-13.00 dBm	Marker Delta
23.2		1			Mkr→CF
43.2					Mkr→RefLv
-53.2 Center 2.57000 GHz #Res BW 390 kHz	#VBW 1.2 MHz*		#Sweep	Span 40.00 MHz I.000 s (1001 pts)	More 1 of 2
ISG			STATUS	(1000 p(0))	

5.3.4.8 Test Mode = LTE/TM2 20MHz

5.3.4.8.1 Test Channel = LCH





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5.3.4.8.2 Test Channel = HCH

Agilent Spect	rum Analyzer - Swept SA					
<mark>w</mark> Marker 1	RF 50 Ω AC	0 GHz PNO: Fast 😱	SENSE:INT	ALIGN OFF Avg Type: RMS Avg Hold:>100/100	09:17:50 PM Mar 07, 2016 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET A N N N N N	Peak Search
10 dB/div	Ref Offset 17.1 dB Ref 36.80 dBm	IFGain:Low	Atten: 30 dB	Mkr	1 2.570 00 GHz -33.662 dBm	Next Peak
26.8						Next Pk Right
6.80						Next Pk Left
-3.20					-13.00 dBm	Marker Delta
-23.2			1			Mkr→CF
-33.2						Mkr→RefLvl
-53.2 Center 2.	57000 GHz				Span 40.00 MHz	More 1 of 2
#Res BW		#VBW	1.2 MHz*		1.000 s (1001 pts)	
MSG				STATUS		



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6 Spurious Emission at Antenna Terminal

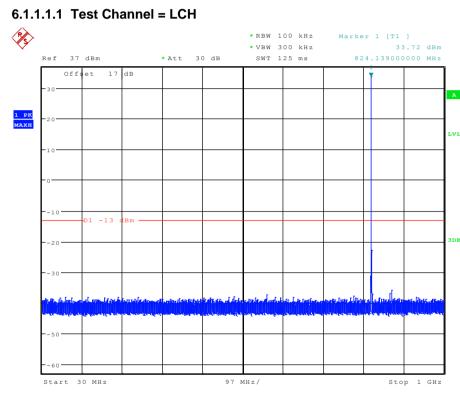
NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Part I - Test Plots

6.1 For GSM

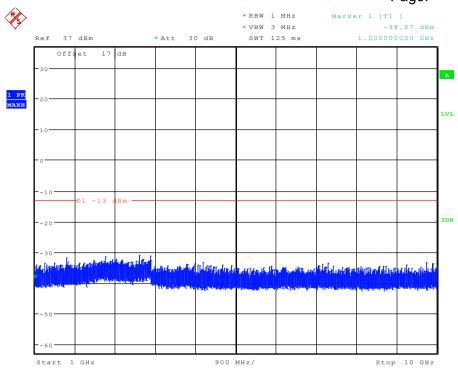
6.1.1 Test Band = GSM850

6.1.1.1 Test Mode = GSM/TM1

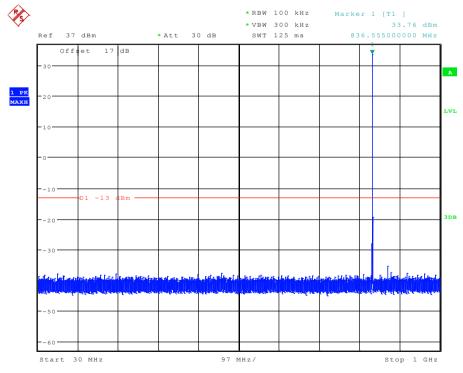




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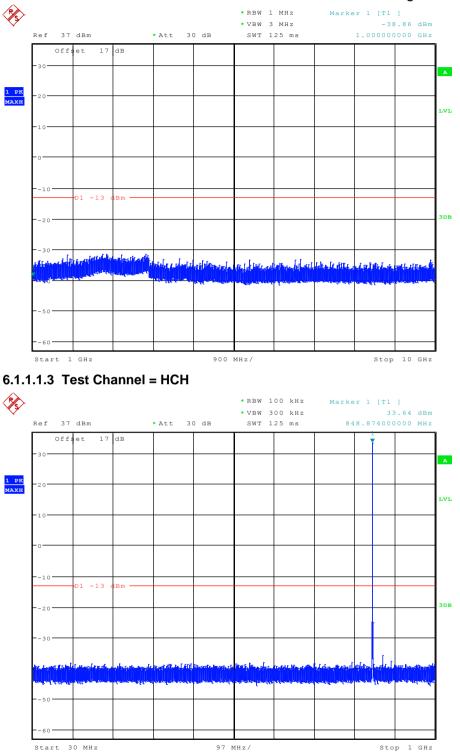


6.1.1.1.2 Test Channel = MCH



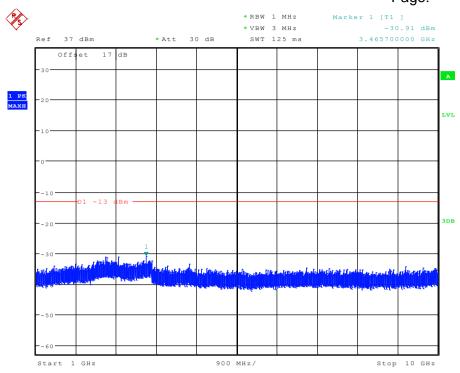


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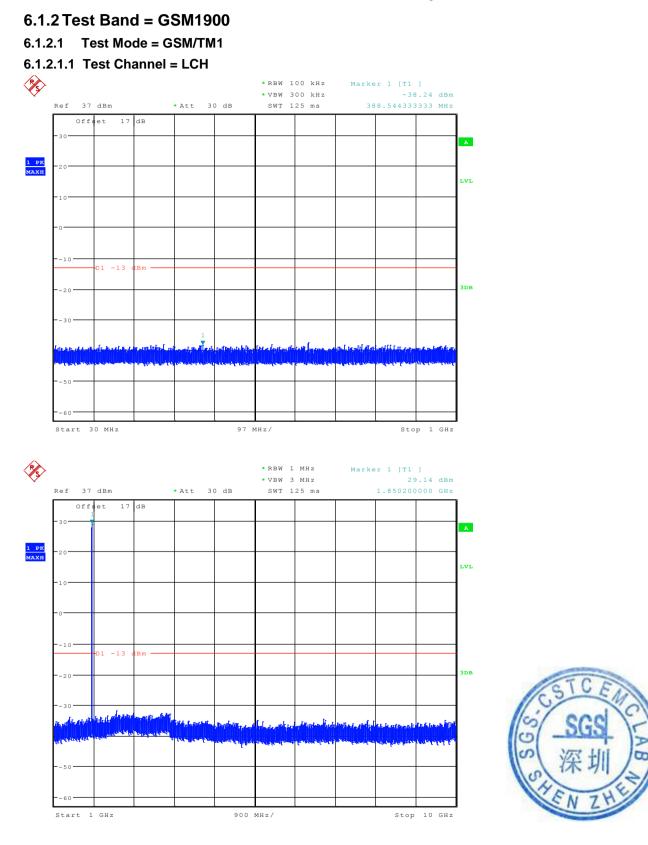


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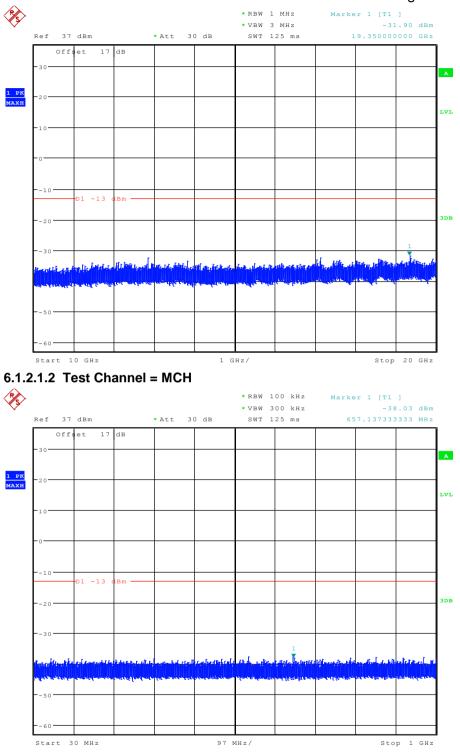


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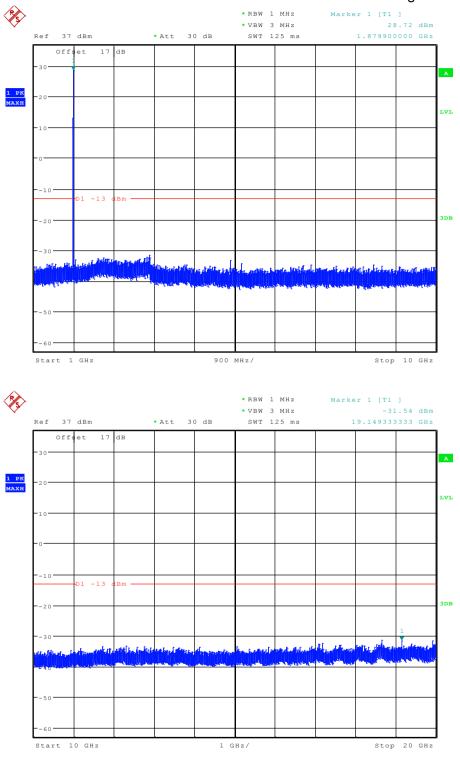


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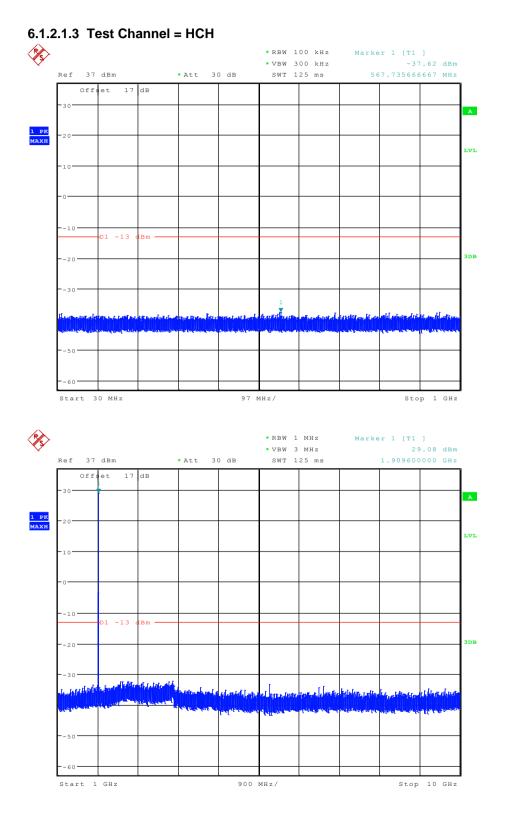


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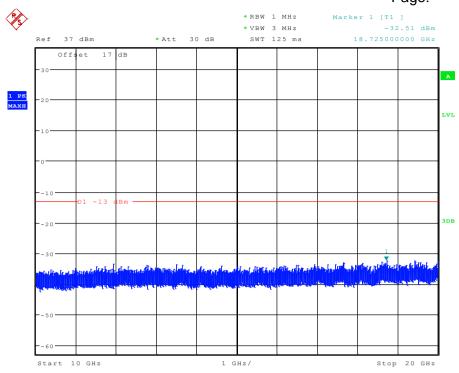


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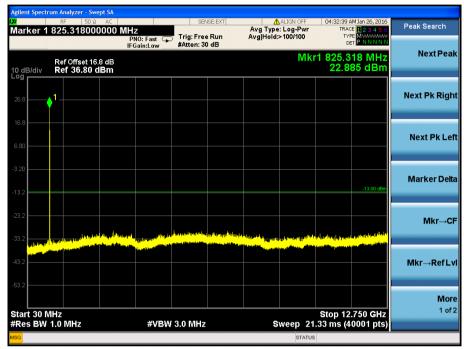
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6.2 For WCDMA

6.2.1 Test Band = WCDMA850

8.1.1.2 Test Mode = UMTS/TM1

6.2.1.1.1 Test Channel = LCH



6.2.1.1.2 Test Channel = MCH





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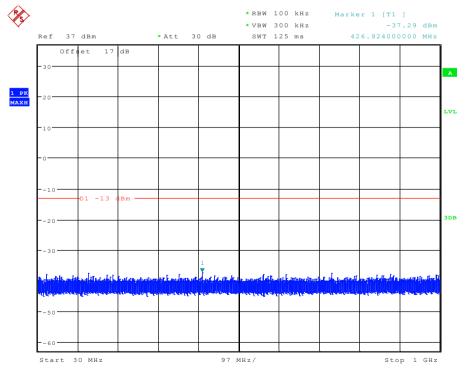
6.2.1.1.3 Test Channel = HCH



6.2.2 Test Band = WCDMA1700

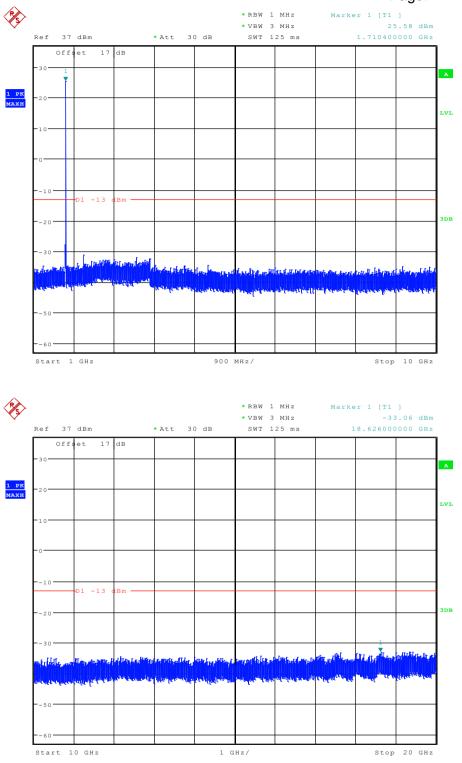
8.1.1.2 Test Mode = UMTS/TM1

6.2.2.1.1 Test Channel = LCH





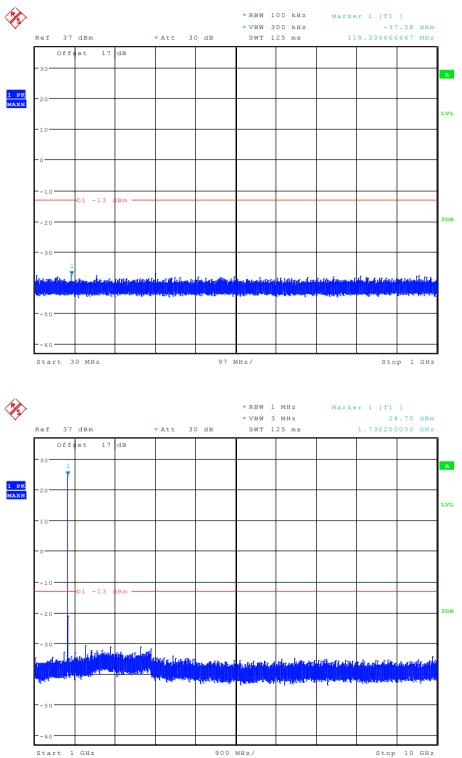
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6.2.2.1.2 Test Channel = MCH