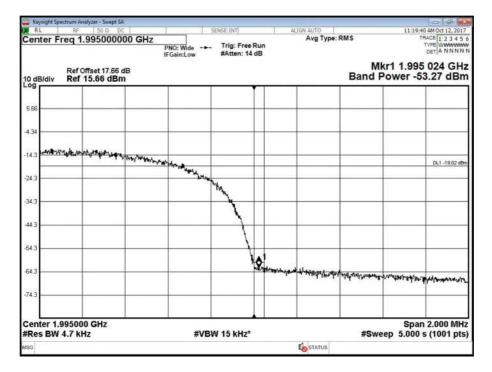


11:13:34 AM Oct 12, 2017 TRACE 1 2 3 4 5 6 TYPE WWWWWW DET A NNNNN Center Freq 1.995000000 GHz Avg Type: RMS Trig: Free Run #Atten: 14 dB PNO: Wide IFGain:Low Mkr1 1.995 024 GHz Band Power -53.39 dBm Ref Offset 17.66 dB Ref 15.66 dBm 10 dB/div 5.66 4.3 14.3 synapsis adapted why have - S. Many the DL1 -19.02 dB -24.3 7 -34.3 -44.3 -64,3 0 64 erous and a contraction of the second and a contraction .74 3 Span 2.000 MHz #Sweep 5.000 s (1001 pts) Center 1.995000 GHz #Res BW 4.7 kHz #VBW 15 kHz* TATUS

Antenna A - WCDMA Modulation 16QAM - Channel T

Antenna B - WCDMA Modulation 16QAM - Channel T





Configuration 2

Maximum Output Power 17 dBm

Antenna	WCDMA Modulation	WCDMA Carrier	Band Edg	ge (MHz)
Antenna		Bandwidth	Channel Position B	Channel Position T
A	16QAM	5.0 MHz	1932.4 + 1937.4	1987.6 + 1992.6
В	16QAM	5.0 MHz	1932.4 + 1937.4	1987.6 + 1992.6

Antenna A - WCDMA Modulation 16QAM - Channel B

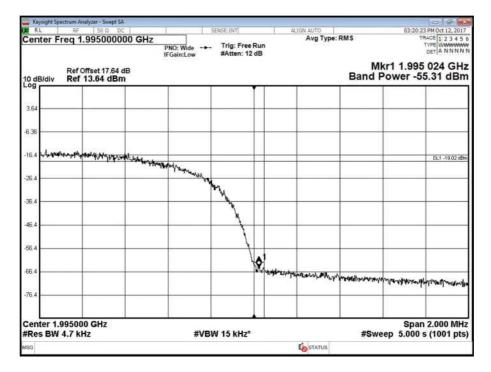
Keysight Spec	RF 50 Q DC	1 5	ENSE:INT	ALIGN AUTO		12:26:03 PM Oct 12, 2017
	eq 1.930000000 GHz	PNO: Wide	Trig: Free Run #Atten: 16 dB	Avg Typ		TRACE 1 2 3 4 5 TYPE WWWWW DET A N N N N
0 dB/div	Ref Offset 17.62 dB Ref 17.62 dBm				Band P	kr1 1.929 977 GHz Power -54.88 dBm
7.62						
.38						
2.4						LANNA 4444 10 10 10 10 10 10 10 10 10 10 10 10 10
22.4				warman	of a light of the	LANNAL AND
12.4				Jr.m.		
2.4			1			
2.4						
2.4	handle and the state of the sta	yereren and a second	erypristration of the			
	30000 GHz					0
Res BW 4		#VBV	V 15 kHz*		#Swe	Span 2.000 MHz ep 5.000 s (1001 pts



RL	sight Spectrum An	50 g DC			SENSE:INT	1	ALIGN AUTO	1	02:52	2:24 PM Oct 12, 2017
Cent	ter Freq 1.			PNO: Wide +	Trig: Free #Atten: 16		Avg Type			TRACE 1 2 3 4 5 6 TYPE WWWWW DET A NNNN
0 dB		ffset 17.62 d 17.62 dBn		-		•				9 977 GHz 55.04 dBm
7.62 -							_			
38				5-						
2.4								. 1	-	rundensteat
12.4							an watch	an the second second		
2.4							r			
12.4						1				
12.4	3					1		1		
52.4	www.	henregymalape	uge/steroestalist	าสู่การสุข.ให้สุบไปกรุง	daerner-sines					
2.4										
	er 1.93000 BW 4.7 kl			#VI	BW 15 kHz*	*		#S\	Spa veep 5.000	an 2.000 MH: 0 s (1001 pts
sg		0755		10,000			STATUS	1967		

Antenna B - WCDMA Modulation 16QAM - Channel B

Antenna A - WCDMA Modulation 16QAM - Channel T





Ke 03:34:50 PM Oct 12, 2017 TRACE 1 2 3 4 5 6 TYPE WWWWWW DET A NNNN N RL Avg Type: RMS Center Freq 1.995000000 GHz Trig: Free Run #Atten: 16 dB PNO: Wide Mkr1 1.995 024 GHz Band Power -55.20 dBm Ref Offset 17.64 dB Ref 17.64 dBm 10 dB/div 7.6 -2.36 12. my in all mit have been the first DL1 -19.02 dB -22.4 ne. -32.4 -42.4 -52.4 and an all the get or plan i for gran was been -62.4 enh which the weather making "notes .72.1 Center 1.995000 GHz #Res BW 4.7 kHz Span 2.000 MHz #Sweep 5.000 s (1001 pts) #VBW 15 kHz* To STATUS G

Antenna B - WCDMA Modulation 16QAM - Channel T

Configuration 4

Maximum Output Power 17 dBm

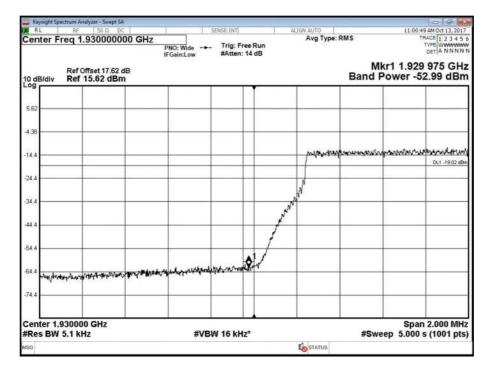
Antonno	LTE Modulation	LTE Carrier Bandwidth	Band Edg	ge (MHz)
Antenna	LIE MODULATION		Channel Position B	Channel Position T 1,992.5 1,992.5 1,990.0 1,990.0 1,987.5 1,985.0
A	QPSK	5.0 MHz	1,932.5	1,992.5
В	QPSK	5.0 MHz	1,932.5	1,992.5
A	QPSK	10.0 MHz	1,935.0	1,990.0
В	QPSK	10.0 MHz	1,935.0	1,990.0
A	QPSK	15.0 MHz	1,937.5	1,987.5
В	QPSK	15.0 MHz	1,937.5	1,987.5
A	QPSK	20.0 MHz	1,940.0	1,985.0
В	QPSK	20.0 MHz	1,940.0	1,985.0



RL	ht Spectrum Analyzer - Swe RF 50 Q	DC		SENSE:INT	AL AL	IGN AUTO		10:37:0	1 AM Oct 13, 2017
	r Freq 1.93000	0000 GHz	NO: Wide	Trig: Free R #Atten: 14 d	un	Avg Type:	RMS	TI	TYPE WWWWWW DET A N N N N
0 dB/d	Ref Offset 17. Iv Ref 15.62 d							kr1 1.929 Power -5	
5.62			_						
.38									
4.4		_				prosecution	ana the states	al-history	DL1 -19.02 dB
24.4									
34_4		_			A	k.	a		
14.4		_			- f				
i4.4				_ 1					
4.4 mgA	yon what and	HIRADA SPARAMANCO	mallapaneeth	from south and the	P1				
4.4		_							
	r 1.930000 GHz 3W 5.1 kHz		#VB	W 16 kHz*	-		#Swe	Span ep 5.000 :	2.000 MH
sg	104202200000		20.0 T			STATUS	1.000		

Antenna A - LTE Modulation QPSK - Channel B, 5MHz

Antenna B - LTE Modulation QPSK - Channel B, 5MHz

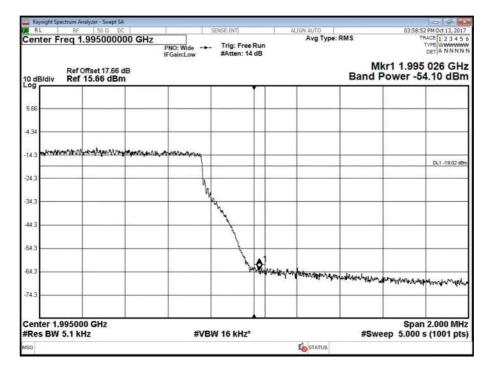




RL RF 50 02 DC Center Freq 1.995000000 0	SENSE:INT	ALIGN AUTO Avg Type: RMS	03:52:11 PM Oct 13, 2017 TRACE 1 2 3 4 5
	PNO: Wide Trig: Free IFGain:Low #Atten: 14		TYPE WWWWWW
Ref Offset 17.66 dB 0 dB/div Ref 15.66 dBm		E	Mkr1 1.995 026 GH Band Power -53.89 dBn
0g			
5.66			
4.34			
4.3 manual Marken Marken	malansanajay		
-			DL1 -19/02 dBr
24.3	η.		
34.3	- nyun		
44.3			
54.3	_\		
54.3	\	Al and the second second	าางร่างเกิดสารจากระสะกระสะสารเป็นสู่สุดาสุง
20-0			when an an an an an and the second second
74.3			
			Span 2.000 MHz
Center 1.995000 GHz Res BW 5.1 kHz	#VBW 16 kHz*		#Sweep 5.000 s (1001 pts

Antenna A - LTE Modulation QPSK - Channel T, 5MHz

Antenna B - LTE Modulation QPSK - Channel T, 5MHz

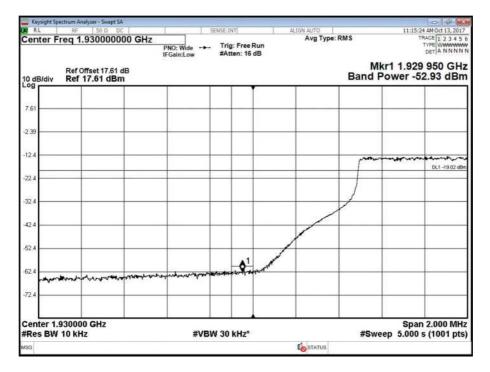




enter Freq 1.93000			ree Run : 12 dB	ALIGN AUTO Avg Type: F	RMS	11:08:34 AM Oct 13, 2017 TRACE 1 2 3 4 5 TYPE WWWWWW DET A NNNN
Ref Offset 17. 0 dB/div Ref 13.61 d			.	-1		1 1.929 950 GHz wer -53.03 dBm
3.61						
: 39						
6.4			_	_	- from the	DL1-19.02 dB
16.4			_			
6.4						
6.4						
6.4			0 ¹			
5.4 Martin - warden the	an a	any-section-proved	Auron	-		
6.4						
enter 1.930000 GHz Res BW 10 kHz		#VBW 30 kH	lz*		#Swee	Span 2.000 MHz p 5.000 s (1001 pts
sg		10 1 10 1 10 10 10 10 10 10 10 10 10 10		STATUS		

Antenna A - LTE Modulation QPSK - Channel B, 10MHz

Antenna B - LTE Modulation QPSK - Channel B, 10MHz

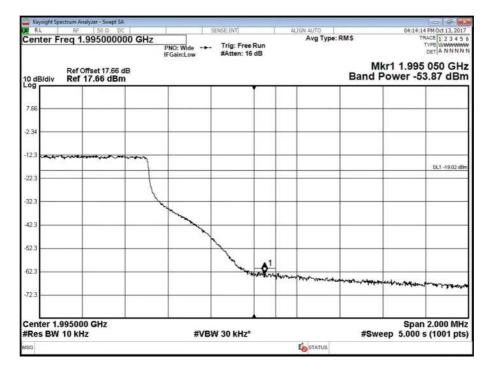




RL	ectrum Analyzer - Swept SA RF 50 Q DC	1 1		SENSE: INT		ALIGN AUTO		04:10:0	3 PM Oct 13, 2017
Center Fi	req 1.99500000	PNC): Wide +++ sin:Low		Run dB	Avg Type:		T	TYPE WWWWWW
0 dB/div	Ref Offset 17.66 dE Ref 15.66 dBm	•						kr1 1.995 Power -54	
5.66									
4.34									
4.3	Later marker	~~							DL1 -19.02 dBr
24.3		+				-			
34.3		سمر	22				1		
14.3			~	<u>\</u>		-			
54.3				$\overline{}$	≬ ¹				
64.3				- Andrew	- Kinge	halme for more and	John waxaan	in when	
74.3									
enter 1.9 Res BW	995000 GHz 10 kHz		#VB	W 30 kHz*	1		#Sw	Span eep 5.000	2.000 MHz s (1001 pts
sg	-9-19-19-19-19-19-19-19-19-19-19-19-19-1					STATUS			

Antenna A - LTE Modulation QPSK - Channel T, 10MHz

Antenna B - LTE Modulation QPSK - Channel T, 10MHz

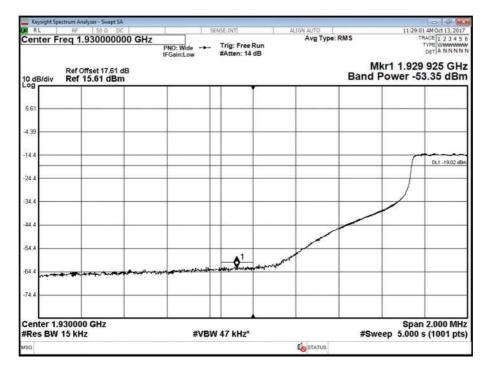




Keysight Spectrum Analyzer - Swept SA RL RF 50 Q DC	SENSE:INT	ALIGN AUTO	11:21:11 AM Oct 13, 2017
Center Freq 1.930000000	HZ PNO: Wide →→ Trig: Free Run IFGain:Low #Atten: 14 dB	Avg Type: R	MS TRACE 1 2 3 4 5 TYPE WWWWW DET A NNNN Mkr1 1.929 925 GH
Ref Offset 17.61 dB 0 dB/div Ref 15.61 dBm			Band Power -53.84 dBn
5.61		_	
4 39			
4.4			DL1-19.02 dB
4.4			
4.4			
4.4			
4.4			
4.4 yohuwanenprinseranana	and the second state of the second state of the second at		
74.4			
enter 1.930000 GHz Res BW 15 kHz	#VBW 47 kHz*	I	Span 2.000 MH #Sweep 5.000 s (1001 pts
sa	1010-1012 Bridden 1012 Ph	STATUS	1990-1997 BL 705-1999 (1997) B87

Antenna A - LTE Modulation QPSK - Channel B, 15MHz

Antenna B - LTE Modulation QPSK - Channel B, 15MHz

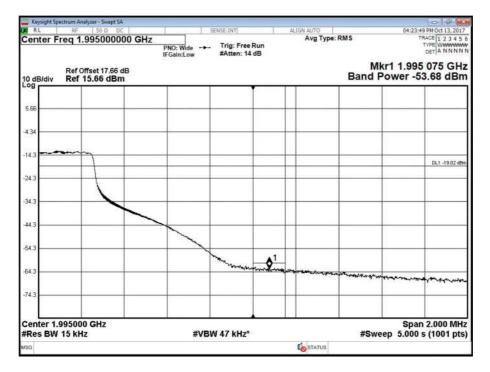




Keysight Sp	ectrum Analyzer - Swept SA RF 50 Q DC		ALIGN			3 PM Oct 13, 2017
	req 1.995000000 GH;	Z PNO: Wide +++ Trig: Free F IFGain:Low #Atten: 14 d	tun	Avg Type: RMS	T	RACE 1 2 3 4 5 6 TYPE WWWWWWW DET A NNNN
0 dB/div	Ref Offset 17.66 dB Ref 15.66 dBm				Mkr1 1.995 d Power -5:	
5.66						
4.34						
14.3						DL1 -19.02 dBr
24.3						
34.3						
14.3						
54.3		Marine makers	\$ ¹			
i4.3			Trans to All Shady and	Stranger plater and a stranger	~7.41	*** 2.000 mm - 10 mp
74.3						
Center 1. Res BW	995000 GHz 15 kHz	#VBW 47 kHz*		#\$	Span weep 5.000	2.000 MHz s (1001 pts)
ISG			4	STATUS		

Antenna A - LTE Modulation QPSK - Channel T, 15MHz

Antenna B - LTE Modulation QPSK - Channel T, 15MHz

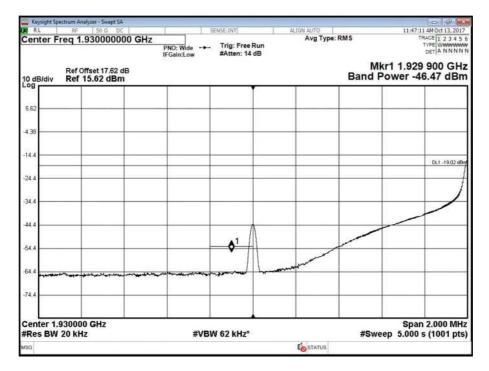




RL RF 50 9 DC Center Freq 1.930000000 G	SENSE INT	ALIGN AUTO Avg Type: R	11:38:35 AM Oct 13, 2017 TRACE 1 2 3 4 5
Ref Offset 17.62 dB	PNO: Wide Trig: Free Run IFGain:Low #Atten: 14 dB		Mkr1 1.929 900 GHz Band Power -52.20 dBm
0 dB/div Ref 15.62 dBm		1 1	Band Power -52.20 dBm
5.62		_	
1.38			
4.4			DL1 -19.02 dB
4.4			
4.4			
4.4			
14.4		a marked	
id 4	and a second	pendur ^{et V}	
4.4			
enter 1.930000 GHz Res BW 20 kHz	#VBW 62 kHz*		Span 2.000 MH #Sweep 5.000 s (1001 pts
sg		STATUS	

Antenna A - LTE Modulation QPSK - Channel B, 20MHz

Antenna B - LTE Modulation QPSK - Channel B, 20MHz

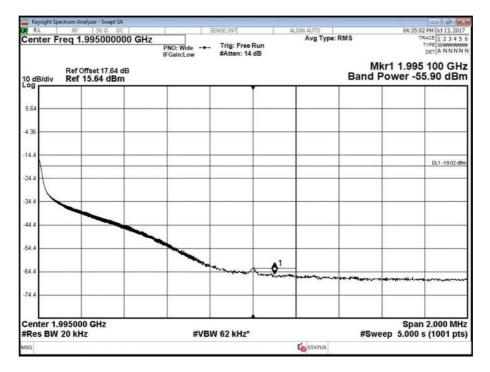




	SENSE:INT	ALIGN AUTO		04:28:56 PM Oct 13, 2017
enter Freq 1.995000000 G	HZ PNO: Wide Trig: Free Ru IFGain:Low #Atten: 14 di			TRACE 1 2 3 4 5 TYPE WWWWWW DET A NNNN 1 1.995 100 GH2
Ref Offset 17.64 dB dB/div Ref 15.64 dBm	· · · · · · · · · · · · · · · · · · ·	1		ower -55.72 dBn
.64				
36				
4.4				DL1 -19.02 dB
4.4				
4.4		-		
4.4				
4.4		Larrie Justingenergenerge		
4.4				
enter 1.995000 GHz Res BW 20 kHz	#VBW 62 kHz*	l.	#Swee	Span 2.000 MH: 5.000 s (1001 pts

Antenna A - LTE Modulation QPSK - Channel T, 20MHz

Antenna B - LTE Modulation QPSK - Channel T, 20MHz





Configuration 5

Maximum Output Power 17 dBm

Antenna	LTE Modulation	LTE Carrier Bandwidth	Band Ed	ge (MHz)
Antenna	LIE MODULATION		Channel Position B	Channel Position T
А	QPSK	5.0 MHz	1932.5 + 1937.5	1987.5 + 1992.5
В	QPSK	5.0 MHz	1932.5 + 1937.5	1987.5 + 1992.5
А	QPSK	10.0 MHz	1935 + 1945	1980 + 1990
В	QPSK	10.0 MHz	1935 + 1945	1980 + 1990
A	QPSK	15.0 MHz	1937.5 + 1952.5	1972.5 + 1987.5
В	QPSK	15.0 MHz	1937.5 + 1952.5	1972.5 + 1987.5
A	QPSK	20.0 MHz	1940 + 1960	1965 + 1985
В	QPSK	20.0 MHz	1940 + 1960	1965 + 1985

Antenna A - LTE Modulation QPSK - Channel B, 5MHz

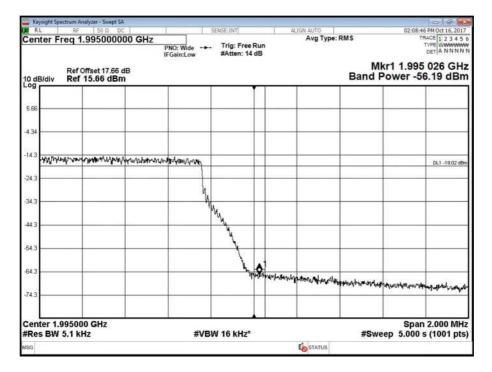
RL	1	F 50 0 D0			SENSE:INT]	I A	LIGN AUTO			PM Oct 13, 2017
Cente		1.9300000	ł	PNO: Wide -+ FGain:Low	. Trig: Free #Atten: 12	Run dB	Avg Type:	м	kr1 1.929	975 GHz
		ef 13.62 dBn		-				Band	Power -5	5.51 dBm
3.62 -		-		1						
6.38 —				4						
16,4							manana	liperature and the factor of t	-	mernilassa
26.4 —										
16.4 —						N.	n n n	-		
46.4					<u> </u>	- Ar				-
56.4 —					•	کر ا				
^{56.4} - V	MANYALANA	11. den 14 14 14 14 14 14 14 14 14 14 14 14 14	er tall on the features	and the state of the	eperature and the	M ^a				
76.4 —										
	er 1.930 BW 5.1	000 GHz kHz		#VB	W 16 kHz*	5		#Swe	Span eep 5.000 s	2.000 MHz s (1001 pts
sa							STATUS			



RL	RF				SENSE:INT	1	ALIGN AUTO			59 PM Oct 13, 2017
ent	er Freq	1.9300000		PNO: Wide ++ FGain:Low	 Trig: Free #Atten: 16 	Run dB	Avg Typ			TRACE 1 2 3 4 5 6 TYPE WWWWWW DET A NNNN
o dBi	Ref /div Ref	Offset 17.62 f 17.62 dBn	HB N					Band	Mkr1 1.92 Power -	9 975 GHz 55.74 dBm
7.62 -	-							_		
.38 -										
2.4							anthe Unit	-	ant service and	NYTYDethebotte
12.4										
2.4							N. N.	-	-	
2.4						AN A	1			
2.4 -				- 1		f	-	-	14	
52.4	white	14.000-1-15-18-1-14-14-14	monor	and the second	and the second second	-		_		
2.4		7 20-51 ISA								
	er 1.9300 BW 5.1 I			#VE	W 16 kHz*	▲ .7		#S1	Spa weep 5.000	n 2.000 MHz s (1001 pts
G							STATUS			

Antenna B - LTE Modulation QPSK - Channel B, 5MHz

Antenna A - LTE Modulation QPSK - Channel T, 5MHz

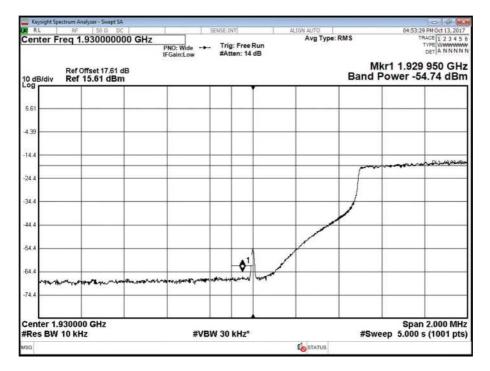




RL R			SENSE:INT	ALIGN AUTO			PM Oct 16, 2017
	1.995000000 GH	Z PNO: Wide IFGain:Low	. Trig: Free Ru #Atten: 12 dE	in	ype: RMS	Т	
	f 0ffset 17.66 dB f 13.66 dBm		· · · ·			Power -56	
3.66							
5.34							
16.3 Yuglaqoo w	waran way in the work of	unan subserver					DL1 -19.02 dBi
6.3		h					
36.3		1	M.	2			
16.3			1				
56.3							
i6.3			7)) hvelsepistresportigies	MMunanyuthana	hydronytostantes	~
76.3							
enter 1.9950 Res BW 5.1		#VP	W 16 kHz*		#51	Span reep 5.000 s	2.000 MH
		#VL	in to hitz	STATU:	1.000	och 0.000 3	(1001 pts

Antenna B - LTE Modulation QPSK - Channel T, 5MHz

Antenna A - LTE Modulation QPSK - Channel B, 10MHz

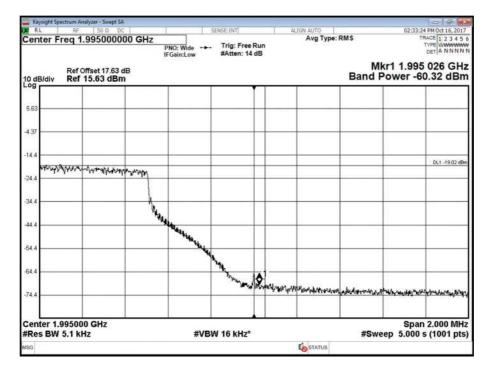




RL	RF 50 9 DC	SENSE:1	NT I	ALIGN AUTO		04:58:17 PM Oct 13, 2017
Center	Freq 1.930000000 G	PNO: Wide Trig	g: Free Run ten: 14 dB	Avg Type:	RMS	TRACE 1 2 3 4 5 TYPE WWWWWW DET A NNNN
0 dB/di	Ref Offset 17.61 dB v Ref 15.61 dBm					1 1.929 950 GHz wer -46.83 dBm
5.61						
.39						
4.4						
4.4						
14_4					Jan	
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i4.4			•			
14.4 •***	francistant manageral and and a star	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	when how we	¢		
4.4						
	1.930000 GHz W 10 kHz	#VBW 30	kHz*		#Swee	Span 2.000 MHz 5.000 s (1001 pts
sg				STATUS		

Antenna B - LTE Modulation QPSK - Channel B, 10MHz

Antenna A - LTE Modulation QPSK - Channel T, 10MHz

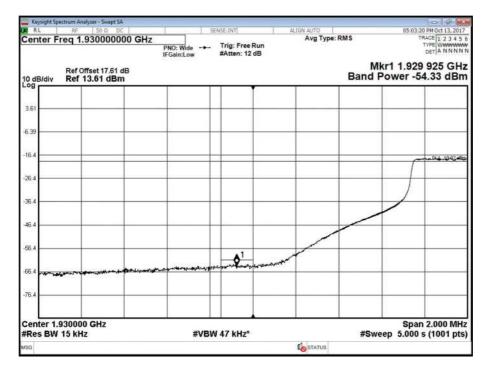




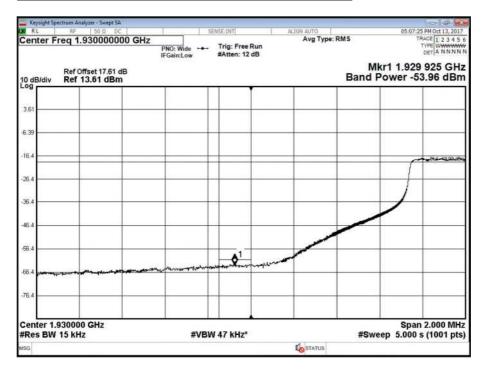
RL RF 50 0 DC Center Freq 1.995000000 GH	łz	ENSE:INT	ALIGN AUTO Avg Typ	e: RMS	TR	PM Oct 16, 2017 ACE 1 2 3 4 5
	PNO: Wide	Trig: Free Run #Atten: 14 dB				DET A NNNN
Ref Offset 17.63 dB 0 dB/div Ref 15.63 dBm					kr1 1.995 Power -60	
og		T I		1	1	
5.63						
37			_			
4.4						DL1 -19.02 dB
24.4	1					
4.4	h.			-		
4.4	Will and the and					
4,4	Weaver and the second s					
4.4		Munus &				
4.4		. A	vistana and and and and and and and and and	hill magnificer where we	Arapit, seasily/Litera	-nhristlijende
enter 1.995000 GHz Res BW 5.1 kHz	#VB1	V 16 kHz*		#Sw	Span eep 5.000 s	2.000 MH
sg			STATUS			

Antenna B - LTE Modulation QPSK - Channel T, 10MHz

Antenna A - LTE Modulation QPSK - Channel B, 15MHz

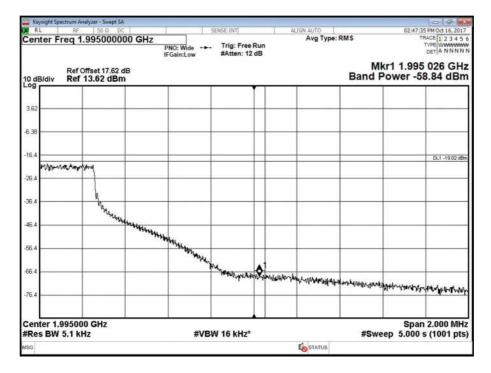






Antenna B - LTE Modulation QPSK - Channel B, 15MHz

Antenna A - LTE Modulation QPSK - Channel T, 15MHz

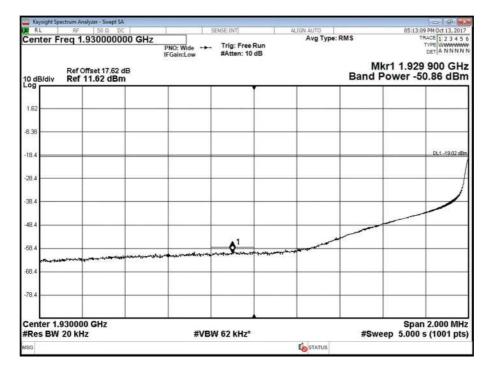




RL	RF 50 Q D0			SENSE: INT	1	ALIGN AUTO	-		3 PM Oct 16, 2017
F	q 1.9950000	Pi IF	NO:Wide ↔ Gain:Low	Trig: Fre #Atten: 1		Аvg Тур	N	lkr1 1.995	
odB/div F	Ref 13.62 dBn	n			•		Band	Power -5	7.98 dBm
3.62							_		
5.38			17				_		
5.4	1700000					_			DL1 -19.02 dBt
6.4						-			
6.4	- mu		-						
6.4		WAYNAALANAA							
6,4			Carter Markenson	ny .		1984-197-1987-197-197-197-197-197-197-197-197-197-19			
6.4				a national second	Villetur	*********	when the state of	++++	building
76.4									1 . there are
enter 1.99 Res BW 5.	5000 GHz 1 kHz		#VI	BW 16 kHz	*		#Sw	Span veep 5.000	2.000 MH s (1001 pts
sa	11.24 A.242		0.020			STATUS		and an an an and a second	

Antenna B - LTE Modulation QPSK - Channel T, 15MHz

Antenna A - LTE Modulation QPSK - Channel B, 20MHz

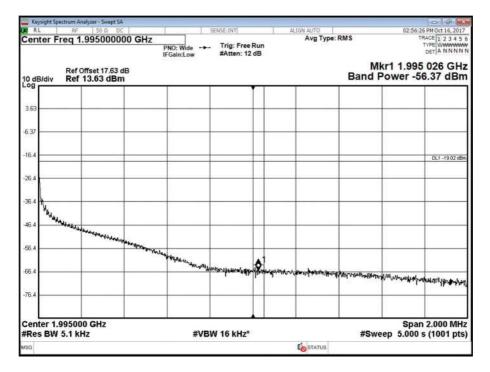




RL	ectrum Analyzer - Swept SA RF 50 😥 DC	SENSE:INT	ALIGN AUTO	05:19:06 PM Oct 13, 2017
Center Fi	req 1.930000000 GHz	PNO: Wide +++ Trig: Free Run IFGain:Low #Atten: 10 dB	Avg Type: RMS	TRACE 1 2 3 4 5 TYPE WWWWW DET A NNNN Mkr1 1.929 900 GHz
0 dB/div	Ref Offset 17.62 dB Ref 11.62 dBm		B	and Power -50.48 dBm
1.62				
3.38				
18,4				DL1 -19.02 dBs
28.4				/
38.4				
18.4				
58.4	mysteres was served and and	all work and we want to provide the providence of the providence o	And the state of t	
58.4				
'8.4				
enter 1.9 Res BW	930000 GHz 20 kHz	#VBW 62 kHz*		Span 2.000 MHz #Sweep 5.000 s (1001 pts
sg			To STATUS	

Antenna B - LTE Modulation QPSK - Channel B, 20MHz

Antenna A - LTE Modulation QPSK - Channel T, 20MHz





RL	RF	1.99500000	0 GHz	_	SENSE: INT	1	ALIGN AUTO	e: RMS	TR	PM Oct 16, 2017
ont	or ricq i	.33500000	P	NO: Wide + Gain:Low	 Trig: Free #Atten: 1 	Run			1	DET A NNNN
0 dBi		Offset 17.63 d 11.63 dBm	в	Galit.LOW					kr1 1.995 Power -55	
1.63 -								_		
3.37 -				5						
8.4 =										DL1 -19.02 dBs
18.4		·			-					
18.4 	Mun.					0-0	_	-		
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ente	er 1.99500 BW 5.1 k	0 GHz			BW 16 kHz					2.000 MHz
sa		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -					STATUS	# U II:		1.001 pcs

Antenna B - LTE Modulation QPSK - Channel T, 20MHz

Configuration 6

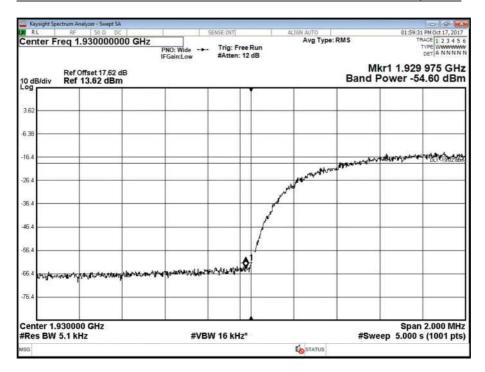
Maximum Output Power 17 dBm

	WCDMA / LTE	WCDMA / LTE Carrier	Band Ed	ge (MHz)
Antenna	Modulation	Bandwidth	Channel Position	Channel Position
			Brfbw	Trfbw
А	16QAM / QPSK	5.0 MHz / 5.0 MHz	1932.4 (W) + 1937.5	1987.4 (W) + 1992.5
			(L)	(L)
в	16QAM / QPSK	5.0 MHz / 5.0 MHz	1932.4 (W) + 1937.5	1987.4 (W) + 1992.5
5		0.0 10112 / 0.0 10112	(L)	(L)
A	16QAM / QPSK	5.0 MHz / 10.0 MHz	1932.4 (W) + 1940 (L)	1982.4 (W) + 1990 (L)
В	16QAM / QPSK	5.0 MHz / 10.0 MHz	1932.4 (W) + 1940 (L)	1982.4 (W) + 1990 (L)
А	16QAM / QPSK	5.0 MHz / 15.0 MHz	1932.4 (W) + 1942.5	1977.4 (W) + 1987.5
~		5.0 WHZ / 15.0 WHZ	(L)	(L)
В	16QAM / QPSK	5.0 MHz / 15.0 MHz	1932.4 (W) + 1942.5	1977.4 (W) + 1987.5
В	INGAM / GI SK	5.0 10112 / 15.0 10112	(L)	(L)
A	16QAM / QPSK	5.0 MHz / 20.0 MHz	1932.4 (W) + 1945 (L)	1972.4 (W) + 1985 (L)
В	16QAM / QPSK	5.0 MHz / 20.0 MHz	1932.4 (W) + 1945 (L)	1972.4 (W) + 1985 (L)



Center	₩F 50 Ω 0 Freq 1.9300000				ALIGN AUTO Avg Type:	RMS	01:51:55 PM Oct 1 TRACE 1 2 TYPE WW DET A N	1456
0 dB/div	Ref Offset 17.62 Ref 15.62 dBi	dB					1 1.929 975 ower -55.17	
5.62								
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34.4				J.	-			
44.4				1	-			
-54.4								
64.4	\$7.8/81-11/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/		Andrew manipped and	ş				
-74,4								
	.930000 GHz		#VBW 16 kHz	*	1	#Swee	Span 2.000 p 5.000 s (100	
ISG					STATUS		•••	- 1997

Antenna A - WCDMA / LTE Modulation 16QAM / QPSK - Channel B, 5MHz

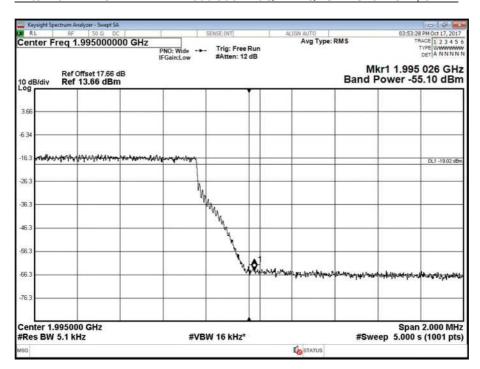


Antenna B - WCDMA / LTE Modulation 16QAM / QPSK - Channel B, 5MHz



RL	ctrum Analyzer - Swept SA RF 50 Q DC		SENSE:INT	ALIGN AUTO		:37:30 PM Oct 17, 2017
Center Fr	eq 1.995000000 GI	PNO: Wide	Trig: Free Run #Atten: 16 dB	Avg Type: RI	NS	TRACE 1 2 3 4 5 TYPE WWWWWW DET A NNNN
0 dB/div	Ref Offset 17.66 dB Ref 17.66 dBm	ar-annoosa			Mkr1 1.9 Band Power	995 026 GH -55.05 dBn
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2.34				_		
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42.3						
52.3			\rightarrow			
62.3			Hun Reyslerie	u se operation of the second o	RMWSHINI -	¹²⁴ -1414-1111-14-14-14-14-14-14-14-14-14-14
72.3						
Center 1.9 #Res BW 4	95000 GHz 5.1 kHz	#VB	W 16 kHz*			pan 2.000 MH: 00 s (1001 pts
ISG		60.000		STATUS	CHECKSON ME CONS	

Antenna A - WCDMA / LTE Modulation 16QAM / QPSK - Channel T, 5MHz

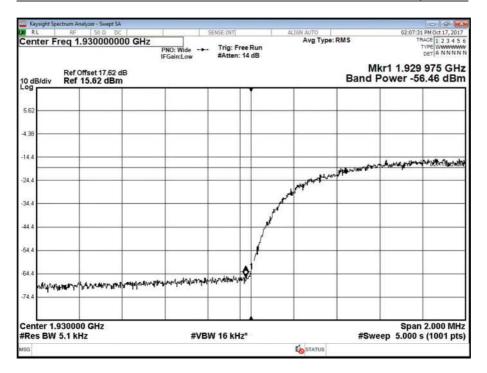


Antenna B - WCDMA / LTE Modulation 16QAM / QPSK - Channel T, 5MHz



Center	Freq 1.930000	000 GHz		SENSE:INT		Avg Type: I	RMS	TR	PM Oct 17, 2017 ACE 1 2 3 4 5 6
			PNO: Wide ++ IFGain:Low	#Atten: 14					DETANNNN
0 dB/div	Ref Offset 17.6 Ref 15.62 dE							r1 1.929 ower -56	
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Mulher	aver and particulation	hillewarenershin	***	ANA WAYING					
74.4									
	.930000 GHz								2.000 MH
	1.930000 GHz V 5.1 kHz		#VI	3W 16 kHz*			#Swe	Span ep 5.000 s	

Antenna A - WCDMA / LTE Modulation 16QAM / QPSK - Channel B, 10MHz

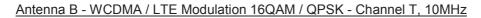


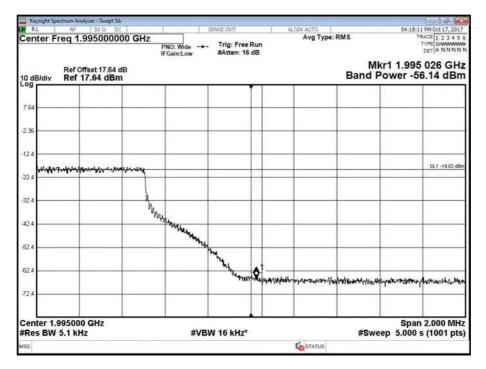
Antenna B - WCDMA / LTE Modulation 16QAM / QPSK - Channel B, 10MHz



Center Fr	eq 1.99500000		NO: Wide ++	SENSE INT	Run	ALIGN AUTO Avg Type:	RMS	TR	PM Oct 17, 2017 ACE 1 2 3 4 5 YPE WWWWW
0 dB/div	Ref Offset 17.64 d Ref 13.64 dBm	if B	Gain:Low	#Atten: 12	dB			r1 1.995 ower -56	
3.64	_								
6.36									
16.4	****	-*******							DL1 -19.02 dB
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36.4		- My	Waddaladdada						
46.4			- MANANANANANANANANANANANANANANANANANANAN	hhu.					
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76.4									
Center 1.9 Res BW	95000 GHz 5.1 kHz		#VI	BW 16 kHz*	1		#Swe	Span ep 5.000 s	2.000 MH

Antenna A - WCDMA / LTE Modulation 16QAM / QPSK - Channel T, 10MHz

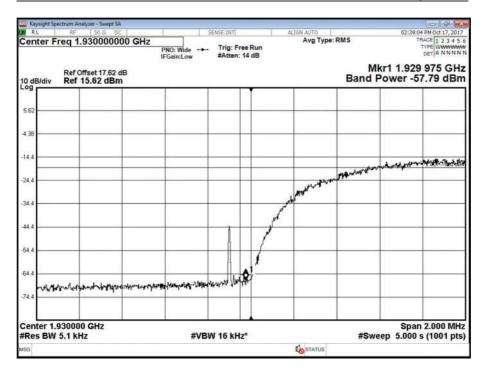






Marker	1 1.929	50 g DC 98985000	00 GHz	PNO: Wide ++	SENSE:INT Trig: Fr #Atten:		ALI	Avg Type:	RMS		RACE 1 2 3 4 5 0 TYPE WWWWW DET A NNNN
0 dB/div		ffset 17.62 d 15.62 dBm				-					899 GH 1.49 dBm
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74,4											
Center 1 #Res BV				#VI	3W 16 kH:	z*			#Swi		n 2.000 MHz s (1001 pts
sG							1	STATUS			

Antenna A - WCDMA / LTE Modulation 16QAM / QPSK - Channel B, 15MHz



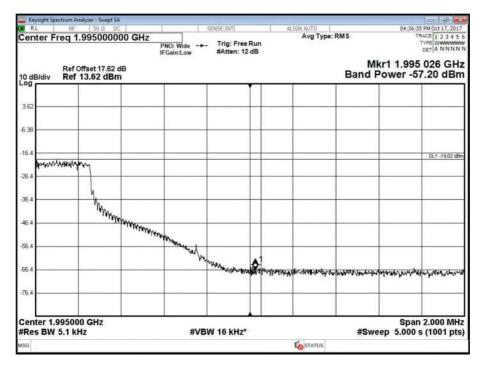
Antenna B - WCDMA / LTE Modulation 16QAM / QPSK - Channel B, 15MHz



RL	trum Analyzer - Swept SA RF 50 Ω DC			SENSE:INT		ALI	GN AUTO			PM Oct 17, 2017
Center Fro	eq 1.99500000	P	NO: Wide ↔ Gain:Low	. Trig: Fre #Atten: 1			Avg Type:	RMS	т	ACE 1 2 3 4 5 YPE WWWWWW DET A NNNN
	Ref Offset 17.62 di Ref 13.62 dBm	3			•			MI Band F	kr1 1.995 Power -57	026 GH .87 dBn
3.62						_				
6.38						_				
16.4	material		1			_				DL1 -19.02 dBr
26.4						-				
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76.4					antentin	range / Jup	oordeeder waarde gebe	6174493471618-9.1	uridenter miller sitter	-shisterappay
	95000 GHz		1							2.000 MH
Res BW 5	.1 kHz		#VE	W 16 kHz	*			#Swe	ep 5.000 s	(1001 pts

Antenna A - WCDMA / LTE Modulation 16QAM / QPSK - Channel T, 15MHz

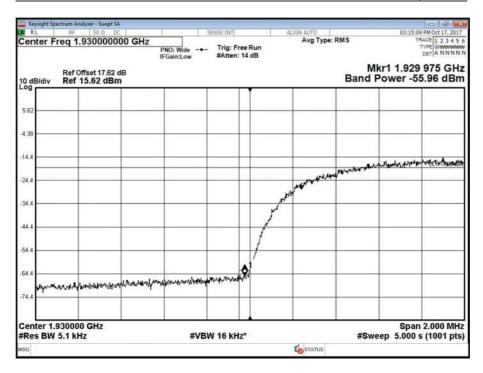






enter	Freq 1.930000	000 GHz		SENSE:INT		Avg Type	RMS	TI	1 PM Oct 17, 2017 RACE 1 2 3 4 5 6 TYPE WWWWWW
			PNO: Wide	#Atten: 14 di					DETANNNN
0 dB/di	Ref Offset 17.6 v Ref 15.62 dE								975 GHz 6.39 dBm
				1 I Ť					
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-							and Warning and	w water w	AMECON 30348
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enter	1.930000 GHz							Span	2.000 MHz
	W 5.1 kHz		#VE	BW 16 kHz*			#Swe		s (1001 pts
SG						STATUS			

Antenna A - WCDMA / LTE Modulation 16QAM / QPSK - Channel B, 20MHz

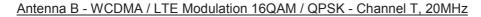


Antenna B - WCDMA / LTE Modulation 16QAM / QPSK - Channel B, 20MHz



en Ri		eq 1.995	00000		NO: Wide -+	SENSE:INT	Rur		Avg Type	RMS	T	6 PM Oct 17, 2017 RACE 1 2 3 4 5 TYPE WWWWWW
0 dE		Ref Offset Ref 15.62			Gain:Low	#Atten: 14	dB					026 GH: 8.01 dBn
5.62	-				7							
4.38					6		-					
14.4												DL1 -19.02 dBr
24.4												
34.4	Mr.		_									
44.4	-YMAN	MHHMMM	Magaa	4	-					eruhturterange		
54.4 64.4				ANA ANA ANA	and when a			1				
74.4					- Marina	warthatelikers.	8	kondingha	atten hat the state of a	renighters from my fi	lunyatherne	-ypatheriteriyaat
			-									0.000 1411
	BW 5	10000 011	IZ			W 16 kHz*					opui	2.000 MHz s (1001 pts

Antenna A - WCDMA / LTE Modulation 16QAM / QPSK - Channel T, 20MHz



RL	RF 50 Q DC			SENSE: INT		AL	IGN AUTO			PM Oct 17, 2017
0 dB/div	Ref Offset 17.62 c Ref 13.62 dBn	iB	PNO: Wide	. Trig: Free #Atten: 12			Avg Type: I	м	1.5	026 GH .20 dBn
.og										
3.62										
6 38	_				-	_	-			
16.4			4							DL1 -19.02 dB
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16.4 Mu.										
6.4	hand and a stand and a stranger a stranger as the stand as the stranger as the									
56,4	14444444444444444444444444444444444444	لال ەن ھ الىيغىنىسى	have been and							
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/6.4										
enter 1.9 Res BW	995000 GHz			W 16 kHz*					Span ep 5.000 s	2.000 MH
sg							STATUS			

Limit -19 dBm



2.4 TRANSMITTER SPURIOUS EMISSIONS

2.4.1 Specification Reference

FCC CFR 47 Part 2, Clause 2.1051 FCC CFR 47 Part 24, Clause 24.238 (a) Industry Canada RSS-133, Clause 6.5

2.4.2 Date of Test and Modification State

12, 13, 16, 17 October 2017 - Modification State 0

2.4.3 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.4.4 Environmental Conditions

Ambient Temperature23°CRelative Humidity50%

2.4.5 Test Method

All measurements were made in accordance with FCC KDB 971168 D01 Clause 6. The EUT was connected to a Spectrum Analyser via an attenuator and switching box. Prior to testing, a Network Analyser was used to calibrate the path loss between the EUT and the Spectrum Analyser. The worst case path loss in the measured ranges was entered as a reference level offset. Over the measured ranges, the RBW was set to 1MHz with a VBW of 3MHz. All measurement results are specified as average with an RMS detector being used in conjunction with a trace setting of Max Hold. Measurements were performed in configurations of the EUT as reported below.

The B25 EUT has 2 transmit ports, but can be configured to operate with 2 devices co-located. Therefore, the test limits used were calculated on a worst case basis accounting for an effective 4 port MIMO configuration. Testing was performed on this port with a test limit of $43+10\log(P) - 10\log(4) = -19$ dBm.

2.4.6 Test Results

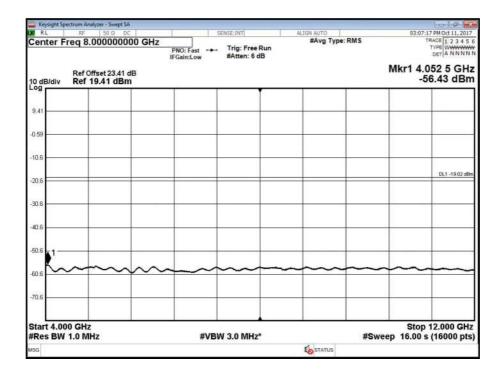
Configuration 1

Maximum Output Power 17 dBm



enter Freq 2.000004500	GHz E PNO: Fast - IFGain:Low	SENSE:INT Trig: Free #Atten: 14	Run	#Avg Type:	RMS	TR	PM Oct 11, 2017 ACE 1 2 3 4 5 YPE WWWWWW DET A NNNN
Ref Offset 19.12 dB 0 dB/div Ref 20.45 dBm						Mkr1 1.93 12	32 2 GH
		•	ĩ				
10.5		+ 1					
450							
9.55							
19.6		+ +					DL1 -19.02 dB
29.6							-
39.6							
49.6							
59.6							
39.6	n and all star fur-	- Hilden and said	ind and a superior		المليسين الرسي		بيطلبي
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tart 9 kHz Res BW 1.0 MHz		BW 3.0 MHz				Stop ep 8.000 s	4.000 GH

Antenna A - WCDMA Modulation 16QAM - Channel B



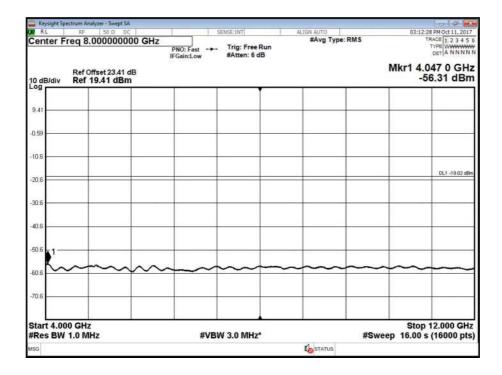


Keysight Spectrum Analyze	50 Q DC	1.5	ENSE:INT	ALIGN AUTO	1.1111	03:07:48 PM Oct 11, 201
Center Freq 17.0	00000000 GHz	PNO: Fast Gain:Low	Trig: Free Run #Atten: 6 dB	#Avg Type:		
10 dB/div Ref 20.				1		-46.95 dBr
10.0						
0.00						
10.0						
20.0						DL1 -19.02 dt
30.0						
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50.0	~~~~~	~~~~		~~~~		<u> </u>
60.0						
70.0						
Start 12.000 GHz		#VB	V 3.0 MHz*		#Sween	Stop 22.000 GH 20.00 s (20000 pt
150			1 0.0 11112	TATUS	"Oweep	20.00 5 (20000 pt



Keysight Spectrum Analyzer - Swept SA		SENSE:1NT	ALIGN AUTO	03:12:02 PM Oct 11, 2017
enter Freq 2.000004500		Trig: Free Run #Atten: 14 dB	#Avg Type: RMS	TRACE 1 2 3 4 5 TYPE WWWWWW DET A NNNN
Ref Offset 19.12 dB 0 dB/div Ref 22.58 dBm	n control			Mkr1 1.932 7 GHz 12.47 dBm
og				
12.6	1			
2.58				
7.42				
17.4				DL1=19.02 dB
27.4				
37.4		-		
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67.4			. In the desidence of the second second second second	ward a ward between
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Start 9 kHz Res BW 1.0 MHz	#	VBW 3.0 MHz*	#	Stop 4.000 GHz Sweep 8.000 s (8000 pts
ISG		1997 TATABAT I. T. COLUMPI.	STATUS	and a second

Antenna B - WCDMA Modulation 16QAM Channel B





Keysight Spectrum Analyzer - Swept 5 R RL RF 50 Q 0	C C	SENSE:INT	ALIGN AUTO		03:12:59 PM Oct 11, 2017
Center Freq 17.000000	DOOO GHz PNO: Fast IFGain:Los	🛶 Trig: Free Run	#Avg Type:		trace 1 2 3 4 5 TYPE WWWWW DET A NNNN kr1 19.224 9 GH -46.92 dBn
^{og}	m T T			r r	-46.92 dBr
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10.0					
20.0					DL1 -19.02 df
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50.0			~~~~	In-	
60.0					
70.0	-				
Start 12.000 GHz #Res BW 1.0 MHz		#VBW 3.0 MHz*		#Sweer	Stop 22.000 GH 20.00 s (20000 pt
ISG			STATUS		(20000 pr



enter Freq 2.000004	500 GHz NFE PNO: Fas IFGain:Lo		ALIGN AUTO #Avg Type: F	RMS	2:04:38 PM Oct 11, 2017 TRACE 1 2 3 4 5 TYPE WWWWWW DET A NNNN
Ref Offset 19.12 0 dB/div Ref 21.12 dB	dB			Mkr1	1.962 2 GH 12.03 dBn
og		1			
	-				
	-				
1.88					
8.9					DL1 -19,02 dB
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89					
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a sure a subscription of the subscription of t	فالمعيد وليصادن والمتحاص أياره	-		Hyst -	
tart 9 kHz Res BW 1.0 MHz		#VBW 3.0 MHz*			Stop 4.000 GH

Antenna A - WCDMA Modulation 16QAM - Channel M

Keysight Spectrum Analyzer - S RL RF 50	1 manufactured		
Center Freq 8.0000		ALIGN AUTO #Avg Type: RM	12:05:14 PM Oct 11, 2017 S TRACE 1 2 3 4 5 TVPE WWWWW DET A NNNN
Ref Offset 2 10 dB/div Ref 19.41			Mkr1 4.031 5 GH -56.33 dBn
9.41	 		
-0.59			
-10.6			
-20.6			DL1 -39.02 dB
-30.6			
-40.6			
-50.6			
-60.6	 		
-70.6			
Start 4.000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz*		Stop 12.000 GHz #Sweep 16.00 s (16000 pts
MSG		K STATUS	

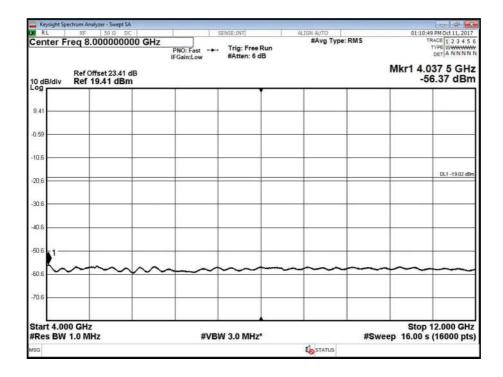


	ectrum Analyzer - Swept SA	02 04 - 20					0
Contor F	reg 17.000000000		ENSE:INT	ALIGN AUTO #Avg Type	RMS	12:05:	47 PM Oct 11, 2017
Centerr	red 17.00000000	PNO: Fast	Trig: Free Run #Atten: 0 dB	and gripe			TYPE A NNNN
10 dB/div	Ref Offset 29.96 dB Ref 9.96 dBm					Mkr1 19.: -5	229 9 GHz 52.86 dBm
			· · · · ·				
-0.04							
-10.0							
-20.0							DL1 -19.02 dBm
-30.0					-		
-40.0							
-50.0					● ¹		
-60.0							
-70.0							
-80.0							
Start 12.0 #Res BW		#VB	V 3.0 MHz*	-	#5	Stop weep 20.00 s	22.000 GHz
MSG		#***	1 0.0 1012	STATUS	" U	100p 20.00 3	(20000 pts)



RL	RF	50 g DC	0 GHz		SENSE:INT		ALIGN AUTO #Avg Type	RMS	01:10:24 TF	PM Oct 11, 2017
			NFE	PNO: Fast +	Trig: Free #Atten: 12					DET A N N N N
0 dB/div		fset 19.12 d 8.26 dBm	в						Mkr1 1.9 12	62 2 GHz 2.25 dBm
^{og}						1				
8.26										
1.74							-			
1.7						-	-			
1.7										DL1 -19.02 dB
31.7						3				
41.7						-				
51.7					- 1					
61.7										
71.7			و این اور	a de la companya da d	and the second second			-		A MARINA
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Res BV	kHz N 1.0 MH	z		#VI	BW 3.0 MHz	*		#Swe	Stop eep 8.000 s	4.000 GHz
sa		2013					STATUS			

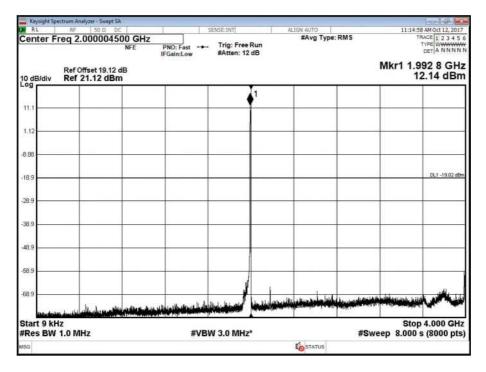
Antenna B - WCDMA Modulation 16QAM - Channel M





	pectrum Analyzer - Swi			100000000			maxin	
Center F	RF 50 Ω Freq 17.0000		PNO: Fast	Trig: Free Run #Atten: 6 dB	ALIGN AUTO #Avg Type	RMS	01:12	19 PM Oct 11, 2017 TRACE 1 2 3 4 5 6 TYPE WWWWWW DET A NNNN
10 dB/div	Ref Offset 29 Ref 20.00 c						Mkr1 19.	221 9 GHz 47.00 dBm
10.0							_	
0.00							_	
-10.0							-	
-20.0							_	DL1 -19.02 dBn
-30.0								-
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-50.0	~~~~	~				ř.		
-60.0								
-70.0		-						
Start 12. #Res BW	000 GHz / 1.0 MHz		#VE	W 3.0 MHz*		#S\	Stop weep 20.00	22.000 GHz s (20000 pts
MSG					To STATUS			

Antenna A - WCDMA Modulation 16QAM - Channel T





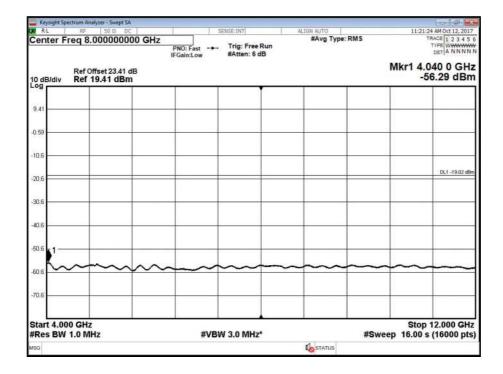
RL RF 50 Q DC	SENSE:INT	ALIGN AUTO	11:15:24 AM Oct 12, 201
enter Freq 8.000000000		#Avg Type: RMS	TRACE 1 2 3 4 5 TYPE WWWW DET A N N N
Ref Offset 23.41 dB dB/div Ref 19.41 dBm			Mkr1 4.047 0 GH -56.21 dB
.41			
59			
0.6			
16			DL1-19/02
1.6			
1.6			
s	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
.6			
art 4.000 GHz Res BW 1.0 MHz	#VBW 3.0 MHz*	CONTRACT OF A DESCRIPTION OF A DESCRIPTI	Stop 12.000 G weep 16.00 s (16000 p
G		STATUS	

RL RF 50 G DC	SENSE:INT	ALIGN AUTO	11:15:57 AM Oct 12, 2017
Center Freq 17.000000000 Ref Offset 29.96 dB Ref 20.00 dB/div Ref 20.00 dBm	GHZ Trig: Free Run PNO: Feast → Trig: Free Run IFGain:Low #Atten: 6 dB	#Avg Type: RMS	TRACE 12345 TYPE WWWWW DET A NNNN Mkr1 19.237 4 GH -47.01 dBn
10.0			
0.00			
10.0			
20.0			DL1 -19.02 dB
30.0			
10.0		1	
i0.0			
60.0			
70.0			
tart 12.000 GHz Res BW 1.0 MHz	#VBW 3.0 MHz*		Stop 22.000 GH Sweep 20.00 s (20000 pts
SG		G STATUS	



Center F	req 2.00000		PNO: Fast ++	SENSE:INT Trig: Free #Atten: 12		ALIGN AUTO #Avg Type:	RMS	TF	AM Oct 12, 2017 ACE 1 2 3 4 5 TYPE WWWWW DET A N N N N
0 dB/div	Ref Offset 19 Ref 21.12).12 dB dBm	IFGain:Low	PAGEN. 12				Mkr1 1.9	
.og					1				
11.1						-			
1.12						_			
1.88						-			
8.9						-			DL1 -19.02 dE
26.9						_			
18.9							·		
48.9						-			
58.9									
58.9						فالتنظف فيقانه	التعالية ومارير	States and the states	Los Million
an Isa	ومعاقبه المعاديان	an all the large					alla ann a str.	an a	A
tart 9 kl Res BW	Hz 1.0 MHz		#VE	3W 3.0 MHz	a:		#Swe	Stop ep 8.000 s	4.000 GH
ISG			2012-1			STATUS			

Antenna B - WCDMA Modulation 16QAM - Channel T





	pectrum Analyzer - Swept SA						
Center	Freq 17.000000000		SENSE:INT	ALIGN AUTO #Avg Type:	RMS	11:21:	55 AM Oct 12, 2017 RACE 1 2 3 4 5 6 TYPE WWWWWW
Contor	100 11.000000000	PNO: Fast +	Trig: Free Run #Atten: 6 dB				DET A NNNN
10 dB/div	Ref Offset 29.96 dB Ref 20.00 dBm					Mkr1 19.: -4	231 9 GHz 6.94 dBm
			T.				
10.0							
0.00							
-10.0					-		-
-20.0							DL1 -19.02 dBm
-30.0							
-40.0					1		
-50.0			~~		Ľ	\rightarrow	
-60.0							-
-70.0							-
Start 12. #Res BM	000 GHz / 1.0 MHz	#VB	W 3.0 MHz*		#5	Stop weep 20.00 s	22.000 GHz
MSG				To STATUS			

Configuration 2

Maximum Output Power 17 dBm



enter Fr	eq 2.000004		PNO: Fast	SENSE:INT	e Run	ALIGN AUTO #Avg Type:	RMS	12:16:	8 PM Oct 12, 2017 RACE 1 2 3 4 5 TYPE WWWWWW DET A NNNN
0 dB/div	Ref Offset 19.12 Ref 22.18 dB	dB	FGain:Low	#Atten: 2				Mkr1 1.9	038 7 GH2 0.19 dBn
og					1				
12.2			1) <u> </u>				
2.18									
/ 82									
7.8						_			DL1 19.0248
27.8					2	_			
37.8									
47.8								-	
57.8									184.
57.8		alle alle alle alle alle	uditeration		Ne description			Henrik Halle (H	al water and
7011		un de la francia de la dela de la dela de la dela de la dela de	and it is a fair of the second	ni li te di		in interfall de Marieta M			4.000 GH

Antenna A - WCDMA Modulation 16QAM - Channel B

Keysight Spectrum Analyzer - Swept S Keysight RL RF 50 G I		SENSE:INT	ALIGN AUTO	12:16:53 PM Oct 12, 2017
Center Freq 8.000000	000 GHz	Trig: Free Run #Atten: 6 dB	#Avg Type: RMS	TRACE 1 2 3 4 5 TYPE WWWWW DET A NNNN
Ref Offset 23.41 10 dB/div Ref 19.41 dB				Mkr1 4.037 5 GH: -56.35 dBn
9.41				
0.59				
10.6				
20.6				DL1 -19.02 dB
30.6				
40.6				
50.6 1			_	
60.6	\sim			+
70.6				
Start 4.000 GHz #Res BW 1.0 MHz	#	VBW 3.0 MHz*	#Sv	Stop 12.000 GHz veep 16.00 s (16000 pts
ASG				



Keysight Spectrum Analyzer - Swept SA RL RF 50 Ω DC	SENSE:INT	ALIGN AUTO	03:19:03 PM Oct 12, 2017
Center Freq 17.00000000 G		#Avg Type: RMS	TRACE 1 2 2 4 5
	PNO: Fast Trig: Free Run IFGain:Low #Atten: 6 dB		Mkr1 19.223 9 GH
Ref Offset 29.96 dB 0 dB/div Ref 20.00 dBm			-47.02 dBn
10.0			
0.00			
10.0			
20.0			DL1 -19.02 dE
30.0		7	
40.0			
50.0			
60.0			
70.0			
Start 12.000 GHz			Stop 22.000 GH
Res BW 1.0 MHz	#VBW 3.0 MHz*	#Swe	eep 20.00 s (20000 pts



enter Freq 2	50 g DC			SENSE:INT		IGN AUTO #Avg Type:	RMS	TR	PM Oct 12, 2017 ACE 1 2 3 4 5
		NFE F	NO: Fast	Trig: Free #Atten: 2				1	DET A NNNN
0 dB/div Ref	Offset 19.12 d 21.20 dBm	в						Mkr1 1.93 9	37 2 GH: .83 dBn
^{og}					T				
11.2					<u> </u>				
1.20	· · · · · · · · · · · · · · · · · · ·								
1.80					-				
6.8									DL1 -19.02 dD
8.8			-						
8.8									
48.8									
58.8						- 1 - 1	1		. الغار
58.8		-	handerstelle		New States	a a line of the second s			
tart 9 kHz								Stop	4.000 GH

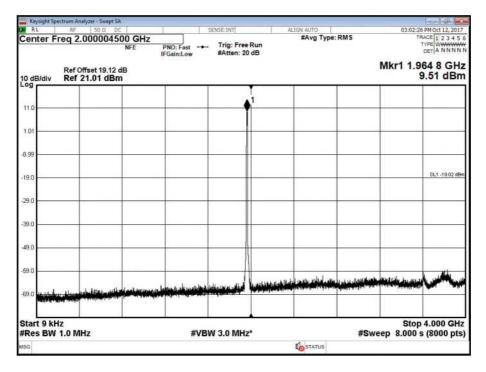
Antenna B - WCDMA Modulation 16QAM - Channel B

Keysight Spectrum Analyzer - Swept SA	SEN	SEGNT	ALIGN AUTO	02:42:30 PM Oct 12, 2017
Center Freq 8.0000000	PNO: Fast	Trig: Free Run #Atten: 6 dB	#Avg Type: RMS	TRACE 1 2 3 4 5 TYPE WWWWW DET A NNNN
Ref Offset 23.41 d 10 dB/div Ref 19.41 dBm	в	#Atten: 6 db		Mkr1 4.043 0 GH -56.44 dBn
9.41				
0.59			-	
10.6				
20,6				DL1 -19.02 dt
30.6				
40.6				
50.6 1				
60.6	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~		
70.6				
Start 4.000 GHz #Res BW 1.0 MHz	#VBW	3.0 MHz*	#Sv	Stop 12.000 GH veep 16.00 s (16000 pts
ISG	0.076.0	GREAT AND		



	sectrum Analyzer - Swept SA					
Center F	req 17.000000000 (SHZ PNO: Fast IFGain:Low #Atten: 6 (Run	HGN AUTO #Avg Type: RM	S	03:12:59 PM Oct 11, 2017 TRACE 1 2 3 4 5 6 TYPE WWWWWW DET A N N N N N
10 dB/div	Ref Offset 29.96 dB Ref 20.00 dBm				Mkr1	19.224 9 GHz -46.92 dBm
10.0						
0.00						
-10.0					-	
-20.0						DL1 -19.02 dBm
-30.0			-			
-40.0					1	
-50.0						
-60.0			-			
-70.0						
Start 12.	000 GHz					Stop 22.000 GHz
#Res BW		#VBW 3.0 MHz	18	-		0.00 s (20000 pts)
MSG				STATUS		

Antenna A - WCDMA Modulation 16QAM - Channel M



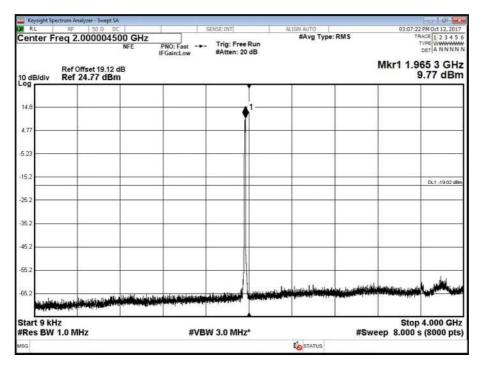


		lyzer - Swept SA							
DO RL	RF	50 g DC			SENSE:INT	ALIGN AUTO	ype: RMS	03:03	:01 PM Oct 12, 2017
Center	Freq 8.0	0000000	JU GHZ	PNO: Fast -	 Trig: Free Run #Atten: 6 dB 	#4481	ype: RMS		TRACE 1 2 3 4 5 6 TYPE WWWWW DET A NNNNN
10 dB/div		fset 23.41 d 9.41 dBm						Mkr1 4.	035 5 GHz 56.44 dBm
9.41									
5.41									
-0.59									
-10.6									
-20.6								_	DL1 -19.02 dBm
-30.6					_				
-40.6									-
-50.6							_		
-60.6	\sim	$\sim\sim$	\sim				~~~		
-70.6									
	000 GHz W 1.0 MH	17		#\	/BW 3.0 MHz*		#S		o 12.000 GHz s (16000 pts)
MSG		873 		100		STATU	175687.7		- (



	ectrum Analyzer - Swept SA						- @ B
Center F	req 17.000000000 C		SENSE: DNT	ALIGN AUTO #Avg Type	RMS	12:05:4	7 PM Oct 11, 2017 RACE 1 2 3 4 5 6 TYPE WWWWW
10 dB/div	Ref Offset 29.96 dB Ref 9.96 dBm	PNO: Fast → IFGain:High	#Atten: 0 dB			Mkr1 19.2	229 9 GHz 2.86 dBm
Log							
-0.04							
-10.0							
-20.0							DL1 -19.02 dBm
-30,0							
-40.0							
-60.0					● ¹		
-60.0							
-70.0							
-80.0							
Start 12.0 #Res BW	000 GHz 1.0 MHz	#VI	BW 3.0 MHz*		#Swe	Stop ep 20.00 s	22.000 GHz (20000 pts
MSG	na menina kan ANG SIA Tu			STATUS	704 m 2020 13		

Antenna B - WCDMA Modulation 16QAM - Channel M



Antenna B - WCDMA Modulation 16QAM - Antenna A

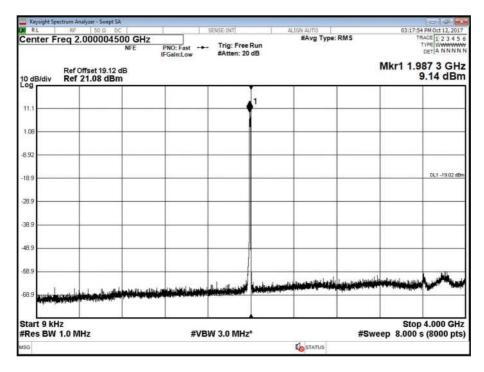


	Spectrum Analyzer -						
DO RL		DG DC		SENSE:INT	ALIGN AUTO #Avg Type: R	44.0	03:07:47 PM Oct 12, 2017
Center	Freq 8.000	000000 GHz	PNO: Fast		#Avg type. R	MS	TRACE 1 2 3 4 5 6 TYPE WWWWWW DET A N N N N N
10 dB/div	Ref Offset Ref 19.4					M	lkr1 4.062 0 GHz -56.40 dBm
9.41							
-0.41							
-0.59							
-10.6							
-20.6							DL1 -19.02 dBm
-30.6							
-40.6							
-50.6							
-60.6	\sim	\sim	~~~~			~~~~	~~~~~
-70.6							
	000 GHz W 1.0 MHz		#VE	3.0 MHz*		#Sweep	Stop 12.000 GHz 16.00 s (16000 pts)
MSG			10.5.7	57973-77973-79975-99999 57973-7997-79975-99979	STATUS		



RL	ctrum Analyzer - Swept SA RF 50 Ω DC	SENSE:INT	A	JGN AUTO	01:12:19	PM Oct 11, 2017
	eq 17.00000000 GH Ref Offset 29.96 dB	PNO: Fast Trig: Free IFGain:Low #Atten: 6 o		#Avg Type: RMS	Mkr1 19.2	21 9 GH
odB/div	Ref 20.00 dBm		Ţ		-41	.00 0 61
10.0						-
0.00					_	
10.0						-
20.0						DL1 -19.02 df
30.0					-	
40.0				1		
50.0						~~
60.0						
70.0					-	
Start 12.00 Res BW 1		#VBW 3.0 MHz	*	#S\	Stop 2 weep 20.00 s	2.000 GH (20000 pt
150				To STATUS		

Antenna A - WCDMA Modulation 16QAM - Channel T





	Spectrum Analyzer - Swept SA		V	A CONTRACTOR OF THE	
enter	Freq 8.00000000) GHz	SENSE:INT	#Avg Type: RMS	03:18:20 PM Oct 12, 2017 TRACE 1 2 3 4 5
and the second		PNO: Fast IFGain:Low	Trig: Free Run #Atten: 6 dB		TYPE WWWW
	Ref Offset 23.41 dB				Mkr1 4.034 5 GH
0 dB/div					-56.48 dBr
9.41					
59					
0.6					
					DL1 -19/02 d8
20.6					DL1-19.02 @
30.6		1			2
40.6					
50.6 - 1 -		-			
60.6 N	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	\sim		~~~~~	
70.6					
	000 GHz N 1.0 MHz	#	VBW 3.0 MHz*	#	Stop 12.000 GH Sweep 16.00 s (16000 pt
sa	2404472807287728		5.77977539775797575757575757575	STATUS	

RE RF 50 G DC Center Freq 17.000000000 C	SHZ PNO: East Trig: Free Run	#Avg Type: RMS	11:15:57 AM Oct 12, 2017 TRACE 1 2 3 4 5 1 TYPE WWWWW
Ref Offset 29.96 dB 0 dB/div Ref 20.00 dBm	PNO: Fast Trig: Free Run IFGain:Low #Atten: 6 dB		Mkr1 19.237 4 GH: -47.01 dBn
10.0			
0.00			
10.0			
20.0			DL1 -19.02 dB
30.0			
40.0		1-	
50.0			
60.0			
70.0			
Start 12.000 GHz Res BW 1.0 MHz	#VBW 3.0 MHz*	#\$	Stop 22.000 GH Sweep 20.00 s (20000 pts
ISG		STATUS	



Ref Offset 19.12 dB Mkr1 1.991 8 9.32 10 1		03:40:57 PM Oct TRACE 1 TYPE W DET A	#Avg Type: RMS	Run	SENSE:INT Trig: Free #Atten: 20	NO: Fast	NFE P	.00000450	ter Freq 2	X R Cen
										0 dE
				1						0050
193 DL1 DL1 -						-				
						1				9.34
	-19.02 dB	DL1 -								19.3
										29.3
						1				39.3
الفني المحصورة والمناطقة ومحمد ومناجل والمعادية والمعادية والمعادية والمعادية والمعادية والمعادية والمحمد والم						-1				49.3
	×.,	فلجني الجليج والمقاد والمطالبة		والمنابع المراجع	المنفق عالم بطعت		باردوم بينار د			
				heli er a a		and an and an and a second				69.3
Start 9 kHz Stop 4.00 Res BW 1.0 MHz #VBW 3.0 MHz* #Sweep 8.000 s (800			#S		W 3.0 MHz	#VB		Hz		

Antenna B - WCDMA Modulation 16QAM - Channel T

RL RF 50 G	DC	SENSE:INT	ALIGN AUTO	03:41:21 PM Oct 12, 2017
Center Freq 8.00000	0000 GHz PNO: Fast IFGain:Low		#Avg Type: RMS	TRACE 1 2 3 4 5 TYPE WWWWW DET 4 NNNN
Ref Offset 23. 10 dB/div Ref 19.41 d		•		Mkr1 4.037 0 GH -56.43 dBn
9.41				
0.59				
10.6				
20.6				DL1 -19.02 dt
30.6				
40.6				
50.6				
	\rightarrow			
70.6				
Start 4.000 GHz #Res BW 1.0 MHz		#VBW 3.0 MHz*	#S1	Stop 12.000 GH weep 16.00 s (16000 pt
sg			STATUS	



	Spectrum Analyzer - Swept SA						0
DO RL	RF 50 Q DC		NSE:INT	ALIGN AUTO			5 AM Oct 12, 2017
Center	Freq 17.000000000 G	PNO: Fast	Trig: Free Run #Atten: 6 dB	#Avg Type	RMS		RACE 1 2 3 4 5 6 TYPE WWWWW DET A NNNNN
10 dB/div	Ref Offset 29.96 dB Ref 20.00 dBm					Mkr1 19.2 -4	31 9 GHz 6.94 dBm
10.0		_					
0.00							
-10.0						-	
-20.0							DL1 -19.02 dBm
-30.0						-	
-40.0					♦ ¹		12
-50.0					~	\frown	
-60.0							
-70.0							
	.000 GHz V 1.0 MHz	#VBW	3.0 MHz*		#Sw	Stop veep 20.00 s	22.000 GHz (20000 pts)
MSG				To STATUS			

Configuration 3

Maximum Output Power 17 dBm



RL Center Fr	req 2.0000045	00 GHz		SENSE:INT		#Avg Type:	RMS	TR	PM Oct 12, 2017
0 dB/div	Ref Offset 19.12 c Ref 18.58 dBn	iB	PNO: Fast ++ FGain:Low	#Atten: 2				Mkr1 1.94	47 7 GH
					1				
8.58			-						
1.42									
1.4					-				
21.4									DL1 -19.02 dB
2010									
31.4			÷.						
41.4									
51.4									
61.4						Union diam Del		Letter II	
71.4	ألته بباقتن ومعرف والمرا	and the distance					States and the second second		
the proves									
tart 9 kH			#\/P	W 3.0 MH;	×		#Sw/	Stop ep 8.000 s	4.000 GHz
ISG SG	1.7 11112		#VD	1 3.3 Min		STATUS	#5₩	.ep 0.000 a	(0000 pts

Antenna A - WCDMA Modulation 16QAM - Channel B

Keysight Spectrum Analyzer - Swept SA	SE SE	NSE:INT	ALIGN AUTO	05:09:45	PM Oct 12, 2017
Center Freq 8.00000000	PNO: Fast IFGain:Low	Trig: Free Run #Atten: 6 dB	#Avg Type: RMS	Mkr1 4.0	ACE 1 2 3 4 5 TYPE WWWWW DET A NNNN
Log		-			
9.41					
0.59					
-10.6					
20.6					DL1 -19.02 db
30.6					
40.6					
50.6					
60.6		~~~~~			
70.6			_		
Start 4.000 GHz #Res BW 1.0 MHz	#VBW	3.0 MHz*	#	Stop 1 Sweep 16.00 s	2.000 GH (16000 pt
ISG			To STATUS	1999 - Angel State (1999) (1999) Angel State (1999)	AD-12070311124-122



Keysight Spectrum		- T - T - 2	ENSE:INT	ALIGN AUTO		05:10:25 PM Oct 12, 2017
			cube:twil 1	#Avg Type:	RMS	TRACE 1 2 3 4 5
Ref	17.000000000 GH	PNO: Fast ++ IFGain:Low	Trig: Free Run #Atten: 6 dB	ming i jpe.		TYPE WWWWW DET A NNNN kr1 19.225 4 GH
10 dB/div Rei	f 20.00 dBm		•			-46.91 dBr
10.0						
0.00		_				
-10.0		_				
20.0		_				DL1 -19.02 dB
30.0					7	
40.0					_1	
50.0				~~~~	In-	
60.0						
70.0						
Start 12.000 G #Res BW 1.0 I		#VB1	V 3.0 MHz*		#Sween	Stop 22.000 GH 20.00 s (20000 pt
ISG				TATUS	" Buicch	20.00 0 (20000 pt



Center Freq 2	50 9 00	00 GHz	PNO: Fast	SENSE:INT		#Avg Type:	RMS	TR	PM Oct 12, 2017 ACE 1 2 3 4 5 YPE WWWWWW DET A NNNN
Ref 0 dB/div Ref	Offset 19.12 d 19.35 dBn	IB	FGain:Low	#Atten: 2				Mkr1 1.94	
9.35				_	1				
0.65									_
10.7					-				1
20.7									DL1 -19.02 dB
30.7			1 						-
40.7	·								
50.7									
60.7 سدا دنبانان ب	angente of an inter	a an an tai bi bi sha a an	a dan dia belanda	llegenerated	len blissteriotette				ببالمحس
70.7									
tart 9 kHz Res BW 1.0 N	1Hz		#VB	W 3.0 MH	Z*		#Swe	ep 8.000 s	4.000 GH: (8000 pts

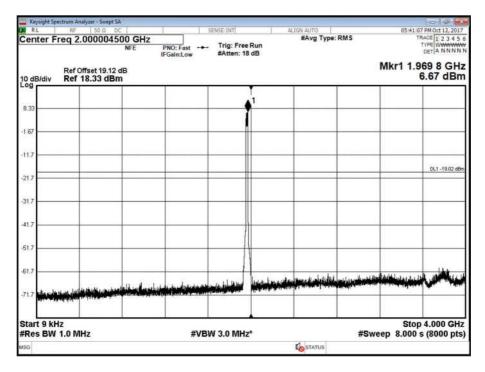
Antenna B - WCDMA Modulation 16QAM - Channel B

Keysight Spectrum And RL RF	50 g DC	SENSE:INT	ALIGN ALITO	05:30:45 PM Oct 12, 201
	000000000 GHz	PNO: Fast Trig: Free IFGain:Low #Atten: 6	#Avg Type	ERMS TRACE 1 2 3 4 5 TYPE WWWW DET 4 NNNN
	ffset 23.41 dB 19.41 dBm		•	Mkr1 4.041 0 GH -56.34 dBr
9.41				
0.59				
10.6				
20.6				DL1 -39.02 d
30.6				
40.6				
50.6	• • • • •			
60.6				
-70.6				
Start 4.000 GHz #Res BW 1.0 Mi		#VBW 3.0 MHz	2*	Stop 12.000 GH #Sweep 16.00 s (16000 pt
ISG				



	sectrum Analyzer - Swept SA					
Center F	req 17.000000000		E:INT Frig: Free Run Atten: 6 dB	ALIGN AUTO #Avg Type:	RMS	03:12:59 PM Oct 11, 2017 TRACE 1 2 3 4 5 TYPE WWWWW DET A NNNN
10 dB/div	Ref Offset 29.96 dB Ref 20.00 dBm				M	kr1 19.224 9 GH: -46.92 dBn
10.0						
0.00						
-10.0						
-20.0						DL1 -19.02 dBr
-30.0						
-40.0					<u><u></u></u>	
-50.0						
-70.0						
Start 12.0	000 GHz					Stop 22.000 GHz
#Res BW	1.0 MHz	#VBW 3	3.0 MHz*	E STATUS	#Sweep	20.00 s (20000 pts

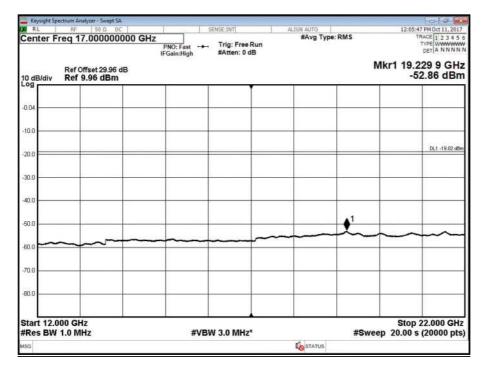
Antenna A - WCDMA Modulation 16QAM - Channel M



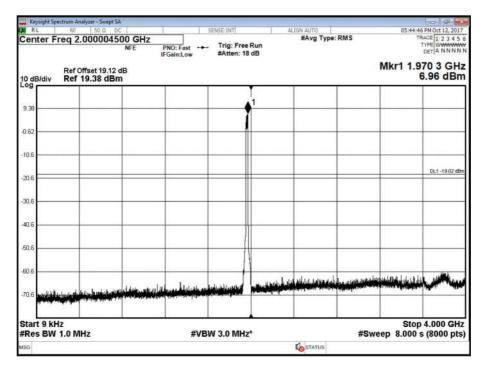


	Spectrum Analyzer - Si							0-0-8
DO RL	RF 50 1			SENSE:INT	ALIGN AUTO #Avg Type	DHAC	05:41:	33 PM Oct 12, 2017
Center	Freq 8.0000	00000 GHz	PNO: Fast -	Trig: Free Run #Atten: 6 dB	#Avg Type	RMS		TYPE WWWWWW DET A NNNNN
10 dB/div	Ref Offset 2 Ref 19.41	3.41 dB dBm					Mkr1 4.0 -5	031 0 GHz 6.39 dBm
9.41								
-0.59								
-10.6			_					
-20.6								DL1 -19.02 dBm
-30.6			-		_			
-40.6								
-50.6								
-60.6	\sim	\sim						
-70.6								
	000 GHz W 1.0 MHz		#VI	BW 3.0 MHz*		#Sv	Stop weep 16.00 s	12.000 GHz (16000 pts)
MSG					To STATUS			





Antenna B - WCDMA Modulation 16QAM - Channel M





Keysight Spectrum Analyzer - Swept SA			1 (201) (202)	les le 🐱
RL RF 500 DC Center Freq 8.0000000		JENSE:INT Trig: Free Run #Atten: 6 dB	ALIGN AUTO #Avg Type: RMS	05:45:13 PM Oct 12, 2017 TRACE 1 2 3 4 5 TYPE WWWWW DET A NNNN
Ref Offset 23.41 d 10 dB/div Ref 19.41 dBn	1B 1			Mkr1 4.043 5 GH -56.41 dBr
9.41				
0.59				
10.6				
20.6				DL1 -19/02/d8
30.6				
40.6	· · ·			
50.6				
60.6				
70.6				
Start 4.000 GHz #Res BW 1.0 MHz	#VE	3W 3.0 MHz*	#S1	Stop 12.000 GH weep 16.00 s (16000 pt
150			STATUS	

Keysight Spectrum Analyzer - Swept SA X R.L RF 50 Ω DC	SENSE:INT	ALIGN AUTO	01:12:19 PM Oct 11, 2017
Center Freq 17.000000000 (Ref Offset 29.96 dB 0 dB/div Ref 20.00 dBm	HZ PNO: Fast → Trig: Free Run IFGain:Low #Atten: 6 dB	#Avg Type: RMS	TRACE 12345 TYPE WWWWW DET A NNNN Mkr1 19.221 9 GH -47.00 dBn
10.0			
0.00			
10.0			
20.0			DL1 -19.02 dB
30.0			
40.0		1	
50.0			
60.0			
70.0		(A)	
Start 12.000 GHz Res BW 1.0 MHz	#VBW 3.0 MHz*	#	Stop 22.000 GH Sweep 20.00 s (20000 pts
ISG		STATUS	



Center Freq 2	50 g DC		NO: Fast	SENSE:INT	Run	#Avg Type:	RMS	TR	PM Oct 12, 2017 AGE 1 2 3 4 5 YPE WWWWW DET A N N N N
Ref 0 dB/div Ref	Offset 19.12 d 18.97 dBm	B	Gain:Low	#Atten: 18	dB			Mkr1 1.97	
8.97					1				
1.03					1				
11.0									
21.0									DL1 -19.02 dB
31.0									
41.0									
51.0									
61.0	الساري المعال	ามได้เปลาเปลาสินปร	تانیز مارید انجار مارید	المتلاحد وروانه	in the second	Angeleige	himmeditie		-
and the second s	a na madilana	and a state of the second s	14						
Start 9 kHz Res BW 1.0 N	IHz		#VB	W 3.0 MHz	*		#Swe	ep 8.000 s	4.000 GH: (8000 pts

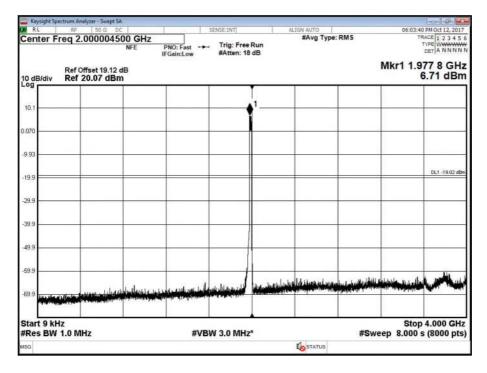
Antenna A - WCDMA Modulation 16QAM - Channel T

Keysight Spectrum Analyzer - Swept SA	9	ENSE: INT	ALIGN ALITO	05:54:32	PM Oct 12, 2017
Center Freq 8.00000000 Ref Offset 23.41 d 10 dB/div Ref 19.41 dBm	PNO: Fast IFGain:Low	Trig: Free Run #Atten: 6 dB	#Avg Type: RMS	TR T Mkr1 4.03	AGE 1 2 3 4 5 YPE WWWWW DET A NNNN
		1			
9.41			_		
-0.59					
-10.6					
20.6					DL1 -19.02 dE
30.6					
40.6					
50.6 1					
60.6		~~~~~		~~~~	
70.6					
Start 4.000 GHz #Res BW 1.0 MHz	#VBM	/ 3.0 MHz*		Stop 1 #Sweep 16.00 s	2.000 GH 16000 pt
ISG			STATUS	1999 (1999) 1997 (1997) (1997) 1997 - 1997 (1997) - 1997 (1997) (1997) 1997 - 1997 (1997) (1997) (1997) (1997) (1997)	1971-9979-9779-9779 1971-9797-9797-9779



	sectrum Analyzer - Swept SA			
Center F	req 17.000000000 G	SENSE:INT PNO: Fast Trig: Fre IFGain:Low #Atten: 1	ALIGN AUTO #Avg Type ee Run 6 dB	11:15:57 AMORT 12, 2017 RACE 12 3 4 5 1 TYPE WWWWW DET A N N N N
10 dB/div	Ref Offset 29.96 dB Ref 20.00 dBm	1 1	•	Mkr1 19.237 4 GHz -47.01 dBm
10.0				
0.00				
-10.0				
-20.0				DL1 -19.02 dBr
-30.0				
-40.0				
-50.0	~~~~			
-60.0				
-70.0				
Start 12.0 #Res BW	000 GHz 1.0 MHz	#VBW 3.0 MH	łz*	Stop 22.000 GHz #Sweep 20.00 s (20000 pts
MSG			To STATUS	

Antenna B - WCDMA Modulation 16QAM - Channel T





	trum Analyzer - Swept SA				
DO RL	RF 50 0 DC	011-	SENSE:INT	#Avg Type: RM	06:04:07 PM Oct 12, 2017 TRACE 1 2 3 4 5 6
Center Fre	eq 8.000000000	PNO: Fast -> IFGain:Low	 Trig: Free Run #Atten: 6 dB 	#Avg type. Am.	TYPE WWWWWW DET A NNNNN
10 dB/div	Ref Offset 23.41 dB Ref 19.41 dBm				Mkr1 4.035 0 GHz -56.41 dBm
Log					
9.41					
-0.59				_	
-10.6					
-20.6	_				DL1 -19/02 dBm
-30.6					
-40.6					
-50.6 - 1					
-60.6	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	\sim			
-70.6					
Start 4.000 #Res BW 1		#VE	3W 3.0 MHz*		Stop 12.000 GHz #Sweep 16.00 s (16000 pts)
MSG				STATUS	

RL RF 50 Q DC	SENSE:INT		ALIGN AUTO #Avg Type: RMS	11:21:55 AM Oct 12, 2017 TRACE 1 2 3 4 5 6
Center Freq 17.000000000 Ref Offset 29.96 dB 0 dB/div Ref 20.00 dBm	GHZ Trig: F PNO: Fast →→ Trig: F IFGain:Low #Atten	ree Run : 6 dB	wAvg Type: KMS	Mkr1 19.231 9 GHz -46.94 dBm
-og				
10.0		-		
0.00		_		
10.0				
20.0				DL1 -19.02 dBr
30.0				
40.0				
50.0				
60.0				_
70.0				
Start 12.000 GHz #Res BW 1.0 MHz	#VBW 3.0 M	H7*	#9	Stop 22.000 GHz weep 20.00 s (20000 pts
ISG	#VBW 5.0 M			1000 20100 3 (20000 pts

Configuration 4

Maximum Output Power 17 dBm LTE 5 MHz Bandwidth setting

Antenna A - LTE Modulation QPSK - Channel B



	sight Spe	ctrum Analyze		lan.							
DO RL	1	RF	50 Q DC			SENSE:INT		ALIGN AUTO		10:38	:34 AM Oct 13, 2017
Cent	er Fr	eq 2.00	000450	NFE NFE	PNO: Fast -	Trig: Fre #Atten: 1	e Run 14 dB	#Avg Typ	e: RMS		TRACE 1 2 3 4 5 6 TYPE WWWWWW DET A NNNN
10 dB	/div		et 19.12 d 12 dBm							Mkr1 1.	933 2 GHz 11.85 dBm
13.1							1				
3.12											
-6.88									-		
-16.9		_									DC1 -1932 abe
-26.9						-				_	-
-36.9	-					-	_				
46.9					_						
-56.9	_					_					
-66.9	-				1 ⁻¹ 1000			ىلىكى ئىرىلىغى يىلى ئەرىلىرى 14-14-14-14-14-14-14-14-14-14-14-14-14-1	بعسواران رواقو	UNITE STATE	يدير والأقرر
	ومعاجدته	data and second	بالمرجع في		where Helperin	-	"Antipiteter		THE REAL PROPERTY.		
	9 kH BW	z 1.0 MHz			#V	/BW 3.0 MH	z*		#S		p 4.000 GHz s (8000 pts)
MSG								To STATUS			

