

		-			_	_		trum Analyzer -	
Frequency	M Jun 10, 2024 E 1 2 3 4 5 6 E A MANANA T A A A A A A	01:31:24 P TRAC TYF	ALIGN AUTO	Run		GHZ PNO: Fast ↔	50 Ω AC 2500000 (		Center F
Auto Tune	10 GHz 73 dBm	2.367 3	Mkr1	dB	#Atten: 10	IFGain:Low		Ref Offset Ref 0.00	10 dB/div
Center Freq 2.382500000 GHz									-10.0
Start Freq 2.365000000 GHz									-20.0
<b>Stop Freq</b> 2.400000000 GHz	-40.00 dBm							<b>↓</b> 1	-40.0
CF Step 3.500000 MHz <u>Auto</u> Man									-60.0
Freq Offset 0 Hz									-80.0
	0000 GHz 1001 pts)	Stop 2.40	#Sween		3.0 MHz	#VBW			-90.0 Start 2.36 #Res BW
			STATUS						ИSG

#### LTE B30\_5 M\_Band Edge(2365MHz-2400MHz)\_High\_QPSK\_1RB



			_		_	_	m Analyzer - Swept SA	
Frequency	M Jun 10, 2024 E 2 3 4 5 6 E A M M M M M	TRAC	ALIGN AUTO	ENSE:INT		GHz PNO: Fast ↔	RF 50 Ω AC q 2.284000000	Center F
Auto Tune	60 GHz 82 dBm	2.287 5	Mkr1	10 dB	#Atten: 1	IFGain:Low	Ref Offset 27.4 dB Ref 0.00 dBm	10 dB/div
Center Freq 2.284000000 GHz								-10.0
Start Freq 2.28000000 GHz								-20.0
<b>Stop Freq</b> 2.288000000 GHz	-40.00 dBm							-40.0
CF Step 800.000 kHz <u>Auto</u> Man								-60.0
Freq Offset 0 Hz								-80.0
	3000 GHz 1001 pts)	top 2.28 1.000 <u>s (</u>	s #Sweep	z	/ 3.0 MHz	#VBW		-90.0 Start 2.28 #Res BW
			STATUS					MSG

## LTE B30\_10 M\_Band Edge(2280MHz-2288MHz)\_Low\_QPSK\_1RB



					_	_	m Analyzer - Swept SA	
Frequency	M Jun 10, 2024 E 1 2 3 4 5 6 E A MANAAAA T A A A A A A	01:37:20 F TRAC	ALIGN AUTO	E:INT		GHz PNO: Fast ↔	RF 50 Ω AC q 2.290000000	Center F
Auto Tune	72 GHz 92 dBm	2.291 9	Mkr1	dB	#Atten: 10	IFGain:Low	Ref Offset 27.4 dB Ref 0.00 dBm	10 dB/div Log r
Center Freq 2.290000000 GHz								-10.0
Start Freq 2.288000000 GHz	-37.00 dBm							-20.0
<b>Stop Freq</b> 2.292000000 GHz	-37.00 dem							-40.0
CF Step 400.000 kHz Auto Mar								-60.0
Freq Offset 0 Hz								-80.0
	2000 GHz 1001 pts)	top 2.29	S #Sweep		3.0 MHz	#VB\\		-90.0 Start 2.28 #Res BW
	ree r pas)		STATUS			#015M	N-111112	ISG

## LTE B30\_10 M\_Band Edge(2288MHz-2292MHz)\_Low\_QPSK\_1RB



			_	_	_	_		ctrum Analyzer	
Frequency	PE A WWWWW A A A A A A A	TRA	ALIGN AUTO	ENSE:INT		GHZ PNO: Fast ↔	50 Ω AC 94000000		enter F
Auto Tune	96 GHz 05 dBm	2.295	Mkr1	10 dB	#Atten: 1	IFGain:Low	et 27.4 dB 00 dBm	Ref Offse Ref 0.00	dB/div
Center Freq 2.294000000 GHz									
Start Freq 2.292000000 GHz	-31.00 dBm								0.0
<b>Stop Freq</b> 2.296000000 GHz	1								0.0
CF Step 400.000 kHz <u>Auto</u> Man									0.0
Freq Offsel 0 Hz									0.0
	6000 GHz (1001 pts)	top 2.29 1.000 s	s #Sweep	2	3.0 MHz	#VBW		2000 GH	
			STATUS						G

## LTE B30\_10 M\_Band Edge(2292MHz-2296MHz)\_Low\_QPSK\_1RB



		_	_	_	_	_	alyzer - Swept SA		
Frequency	M Jun 10, 2024 E 2 3 4 5 6 E A MARAAAA	TRAC	ALIGN AUTO	Run	SEI	Hz PNO: Fast	50 Ω AC	er Freq	Cent
Auto Tune	00 GHz 23 dBm		Mkr1		#Atten: 1	FGain:Low	0ffset 27.4 dB 0.00 dBm		10 dB
Center Freq 2.298000000 GHz									-10.0
Start Freq 2.296000000 GHz	-25.00 dBm								-20.0 -30.0
<b>Stop Freq</b> 2.300000000 GHz									-40.0 -50.0
CF Step 400.000 kHz <u>Auto</u> Mar									-60.0 -
Freq Offsel 0 Hz									-80.0
	0000 GHz 1001 pts)	top 2.30 1.000 s	S #Sweep		3.0 MHz	#VBW		2.29600 BW 1.0	
			STATUS						NSG

## LTE B30\_10 M\_Band Edge(2296MHz-2300MHz)\_Low\_QPSK\_1RB



	rum Analyzer - Swept			_		
Center Fr	req 2.302000		SENSE:INT	#Avg Type: RMS	01:38:11 PM Jun 10, 2024 TRACE 1 2 3 4 5 5 TYPE A WWWWW DET A A A A A A A	Frequency
0 dB/div	Ref Offset 27.4 Ref 0.00 dBi	IFGain:Low	#Atten: 10 dB	Mkr1	2.301 208 GHz -35.910 dBm	Auto Tun
0.0						Center Fre 2.302000000 GH
0.0		1			-23.00 dBm	Start Fre 2.300000000 GF
0.0					and and a state of the state of	<b>Stop Fre</b> 2.304000000 GF
0.0						CF Ste 400.000 kH <u>Auto</u> Ma
0.0						Freq Offs 0 F
tart 2.300 Res BW	0000 GHz	#VBV	√ 300 kHz	s #Sween	top 2.304000 GHz 1.000 s (1001 pts)	
SG				STATUS	· · · · · · · · · · · · · · · · · · ·	

#### LTE B30\_10 M\_Band Edge(2300MHz-2304MHz)\_Low\_QPSK\_1RB

Note : We used a narrower RBW in order to increase accuracy. Calculation = Reading Value + 10 x log(1 MHz/100 kHz) dB = -35.910 dBm + 10 dB = -25.910 dBm



							m Analyzer - Swept SA	
	01:38:27 PM Jun 10, 2024 TRACE 2 3 4 5 6 TYPE A WWWWW DET A A A A A A	IGN AUTO RMS	#Avg Typ		Trig: Free	PNO: Wide ->	RF 50 Ω AC q 2.304500000	Center Fi
Auto Tune	304 998 GHz -34.434 dBm	Mkr1 :		Udb	#Atten: 10	IFGain:Low	Ref Offset 27.4 dB Ref 0.00 dBm	0 dB/div
Center Fre 2.304500000 GH	-13.00 dBm)							10.0
Start Fre 2.304000000 GH	<u>ı</u>							20.0 30.0
Stop Fre 2.305000000 GH		and the second				and a start of the		40.0
CF Ste 100.000 kH <u>Auto</u> Ma								60.0
Freq Offso 0 ⊦								30.0
	2.3050000 GHz	Sto					0000 GHz	90.0
	000 s (1001 pts)	¢Sweep ′			/ 390 kHz	#VBW		¢Res B₩
		STATUS						SG

## LTE B30\_10 M\_Band Edge(2304MHz-2305MHz)\_Low\_QPSK\_1RB



	ctrum Analyzer - Swept SA			_		
Center F	RF 50 Ω AC req 2.31550000	PNO: Wide ->	Trig: Free Run	ALIGN AUTO #Avg Type: RMS	01:38:51 PM Jun 10, 2024 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A A A A A A	Frequency
0 dB/div	Ref Offset 27.4 dB Ref 0.00 dBm	IFGain:Low	#Atten: 10 dB	Mkr1	2.315 000 GHz -33.666 dBm	Auto Tuno
10.0					-13.00 dBm	Center Fre 2.315500000 GH
20.0 1						Start Fre 2.315000000 GH
40.0		Contraction of the Contract		up of the state of		Stop Fre 2.316000000 GH
i0.0 10.0						CF Ste 100.000 kH Auto Ma
10.0						Freq Offso 0 ⊦
30.0	150000 GHz			Si	op 2.3160000 GHz	
Res BW	100 kHz	#VBW	/ 390 kHz	#Sweep	1.000 s (1001 pts)	
SG				STATU	3	

## LTE B30\_10 M\_Band Edge(2315MHz-2316MHz)\_Low\_QPSK\_1RB



	trum Analyzer - Swept SA		L conversion			
	RF 50 Ω AC req 2.318000000	CHZ PNO: Wide ↔ IFGain:Low	SENSE:INT Trig: Free Run #Atten: 10 dB	#Avg Type: RMS	01:39:08 PM Jun 10, 2024 TRACE 1 2 3 4 5 6 TYPE A MANA A A A DET A A A A A A A	Frequency
) dB/div	Ref Offset 27.4 dB Ref 0.00 dBm	I Gameon		Mkr	2.318 836 GHz -34.320 dBm	Auto Tur
0.0						Center Fre 2.318000000 GF
).0				1	-23.00 dBm	Start Fro 2.316000000 Gi
0.0		Thatlet water and a second			and the second	<b>Stop Fr</b> 2.320000000 GI
0.0 0.0						<b>CF Ste</b> 400.000 ki <u>Auto</u> M
).0						Freq Offs 01
	6000 GHz	4) (5)44			Stop 2.320000 GHz	
Kes BW	100 kHz	#VBW	300 kHz	#Sweep	1.000 s (1001 pts)	

#### LTE B30\_10 M\_Band Edge(2316MHz-2320MHz)\_Low\_QPSK\_1RB

Note : We used a narrower RBW in order to increase accuracy. Calculation = Reading Value + 10 x log(1 MHz/100 kHz) dB = -34.320 dBm + 10 dB = -24.320 dBm



			_	_		_		trum Analyzer - Swep	
Frequency	PM Jun 10, 2024 CE 1 2 3 4 5 6 PE A A A A A A A	01:39:25 TRAI	ALIGN AUTO #Avg Type: RMS			Hz PNO: Fast ↔	AC 00000	req 2.32200	Center F
Auto Tune	664 GHz 601 dBm		Mkr1		#Atten: 1	IFGain:Low	.4 dB	Ref Offset 27 Ref 0.00 dE	10 dB/div
Center Freq 2.322000000 GHz									-og -10.0
Start Freq 2.320000000 GHz	-25.00 dBm							1	30.0
Stop Freq 2.324000000 GHz					· · · · · · · · · · · · · · · · · · ·				40.0 50.0
<b>CF Step</b> 400.000 kHz <u>Auto</u> Mar									60.0
Freq Offset 0 Hz									80.0
	4000 GHz (1001 pts)	top 2.32 1.000 s	s #Sweep		3.0 MHz	#VBW		0000 GHz 1.0 MHz	90.0 Start 2.32 #Res BW
			STATUS						ISG

#### LTE B30\_10 M\_Band Edge(2320MHz-2324MHz)\_Low\_QPSK\_1RB



			_	_		_	Analyzer - Swept SA	
Frequency	ACE 1 2 3 4 5 6 YPE A WWWWW DET A A A A A A	01:39:41 TRA T)	#Avg Type: RMS	ee Run		GHz PNO: Fast ↔	2.326000000	Center F
Auto Tune	004 GHz 546 dBm	2.324	Mkr1	10 dB	#Atten: 1	IFGain:Low	ef Offset 27.4 dB ef 0.00 dBm	10 dB/div
Center Freq 2.326000000 GHz								-10.0
Start Freq 2.324000000 GHz	-31.00 dBm							-20.0
Stop Freq 2.328000000 GHz								-40.0
CF Step 400.000 kH Auto Mar								60.0
Freq Offse 0 Hz								-80.0
	28000 GHz (1001 pts)	top 2.32	S #Sweep	z	/ 3.0 MHz	#VBW		Start 2.32
			STATUS					MSG

## LTE B30\_10 M\_Band Edge(2324MHz-2328MHz)\_Low\_QPSK\_1RB



		_	_		_		t Spectrum Analyzer -	
Frequency	PM Jun 10, 2024 DE 1 2 3 4 5 6 PE A WWWWWW ET A A A A A A	01:39:58 F TRAC TY	#Avg Type: RMS	SENSE:INT		50 Ω AC 32500000 GHz		Cente
Auto Tune	)27 GHz 15 dBm	2.328 0	Mkr1	en: 10 dB		iFGai set 27.4 dB .00 dBm		10 dB/d
Center Freq 2.332500000 GHz								-10.0
Start Freq 2.328000000 GHz	-37.00 dBm							-20.0
<b>Stop Freq</b> 2.337000000 GHz								-40.0
CF Step 900.000 kHz <u>Auto</u> Man								-60.0
Freq Offset 0 Hz								-80.0
	7000 GHz (1001 pts)	top 2.33	S #Sween	1Hz	#VBW 3.0 MI		2.328000 GH; BW 1.0 MHz	
			STATUS					ISG

### LTE B30\_10 M\_Band Edge(2328MHz-2337MHz)\_Low\_QPSK\_1RB



						trum Analyzer - Swept SA	
Frequency	PM Jun 10, 2024 ACE 2 3 4 5 6 YPE A WWWW DET A A A A A A A	01:40:14 TRA TY	ALIGN AUTO	g: Free Run	GHZ PNO: Fast +++ T	RF 50 Ω AC req 2.339000000	Center F
Auto Tune	524 GHz 729 dBm	2.337	Mkr1	tten: 10 dB	IFGain:Low #	Ref Offset 27.4 dB Ref 0.00 dBm	10 dB/div
Center Fred 2.339000000 GHz							-10.0
Start Fred 2.337000000 GH2	-31.00 dBm						30.0
<b>Stop Fred</b> 2.341000000 GH:						1	40.0 50.0
CF Step 400.000 kH <u>Auto</u> Mar							60.0
Freq Offse 0 H							80.0
	1000 GHz (1001 pts)	top 2.34 1.000 s	S #Sweep	MHz	#VBW 3.	7000 GHz 1.0 MHz	-90.0 Start 2.33 #Res BW
			STATUS				ISG

## LTE B30\_10 M\_Band Edge(2337MHz-2341MHz)\_Low\_QPSK\_1RB



			_			_		trum Analyzer - Sv		
Frequency	0 PM Jun 10, 2024 RACE 1 2 3 4 5 6 TYPE A WWWWW DET A A A A A A A	01:40:30 TRA TY	#Avg Type: RMS	Run		Hz PNO: Fast ↔	Ω AC	req 2.3430	nter F	
Auto Tune	420 GHz 754 dBm	2.341	Mkr1		#Atten: 1	IFGain:Low		Ref Offset 2 Ref 0.00 (	dB/div	
Center Freq 2.343000000 GHz										Log -10.0
Start Freq 2.341000000 GHz	-25.00 dBm									
Stop Freq 2.345000000 GHz								<b>●</b> 1		
CF Step 400.000 kHz <u>Auto</u> Mar										
Freq Offset 0 Hz										-80.0
	45000 GHz s (1001 pts)	top 2.34 1.000 s	s #Sweep		3.0 MHz	#VBW		1000 GHz 1.0 MHz	art 2.34	
			STATUS						(	ISG

## LTE B30\_10 M\_Band Edge(2341MHz-2345MHz)\_Low\_QPSK\_1RB



		_	_		_	_	nalyzer - Swept SA		
Frequency	M Jun 10, 2024 E 2 3 4 5 6 A 4444 A A A A	01:40:48 P TRAC TYF	ALIGN AUTO			Hz PNO: Fast	50 Q AC		Cent
Auto Tune	82 GHz 99 dBm	1 2.354	Mkr	B	#Atten: 10	IFGain:Low	Offset 27.4 dB 0.00 dBm		
Center Freq 2.355000000 GHz	-13.00 dBm								-10.0
Start Freq 2.345000000 GHz									-20.0 -30.0
<b>Stop Freq</b> 2.365000000 GHz									-40.0
<b>CF Step</b> 2.000000 MHz <u>Auto</u> Man									-60.0
Freq Offset 0 Hz									-80.0
	500 GHz 1001 pts)	Stop 2.36	#Sween		3.0 MHz	#\/B\M		rt 2.34500 s BW 1.0	
	roor proj	1.000-5 (	STATUS		0.0 10112	<i>**</i> <b>V</b> E V V		5 594 1.0	ASG

## LTE B30\_10 M\_Band Edge(2345MHz-2365MHz)\_Low\_QPSK\_1RB



			_	_	_	_		trum Analyzer - Sw	
Frequency	M Jun 10, 2024 E 2 3 4 5 6 E A M M M M M	TRAC	#Avg Type: RMS	SE:INT		Hz PNO: Fast	Ω AC	eq 2.3825	Center F
Auto Tune	45 GHz 42 dBm	2.370 1	Mkr1		#Atten: 10	IFGain:Low	7.4 dB	Ref Offset 2 Ref 0.00 d	10 dB/div
Center Freq 2.382500000 GHz									-10.0
Start Freq 2.36500000 GHz									-20.0
<b>Stop Freq</b> 2.400000000 GHz	-40.00 dBm							•1	-40.0
CF Step 3.500000 MHz <u>Auto</u> Man									-60.0
Freq Offset 0 Hz									-80.0
	0000 GHz 1001 pts)	Stop 2.40 1.000 <u>s (</u>	#Sweep		3.0 MHz	#VBW			Start 2.36
			STATUS						WSG

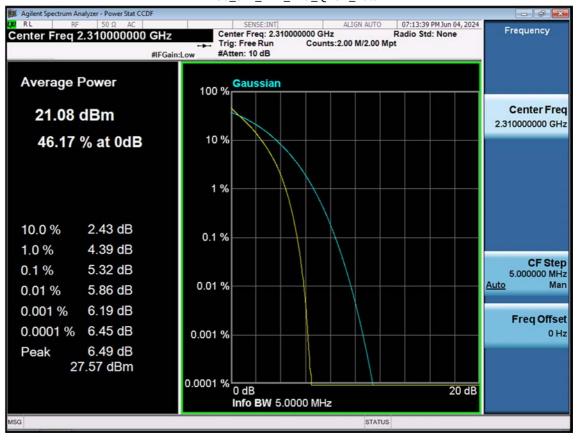
## LTE B30\_10 M\_Band Edge(2365MHz-2400MHz)\_Low\_QPSK\_1RB



Report No. HCT-RF-2407-FC018

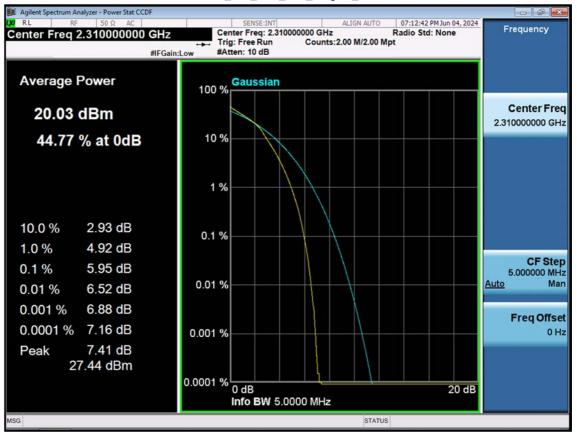
# 11. TEST PLOTS(Sub 5 Ant)





### LTE B30\_5 M\_PAR\_Mid\_QPSK\_FullRB

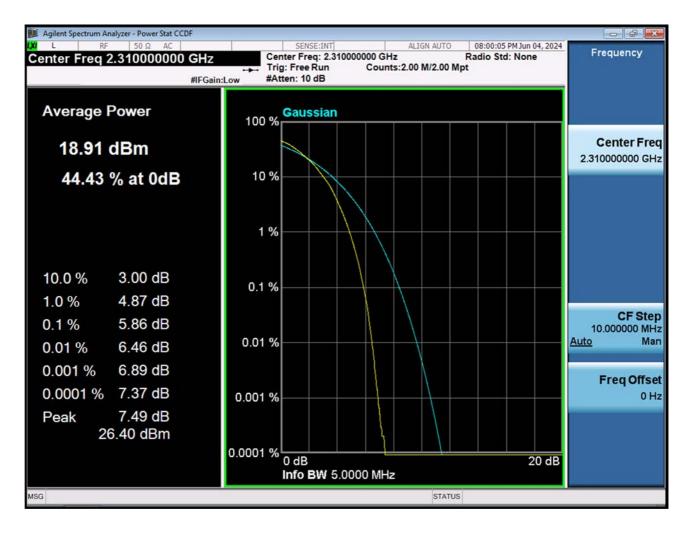




#### LTE B30\_5 M\_PAR\_Mid\_16QAM\_FullRB



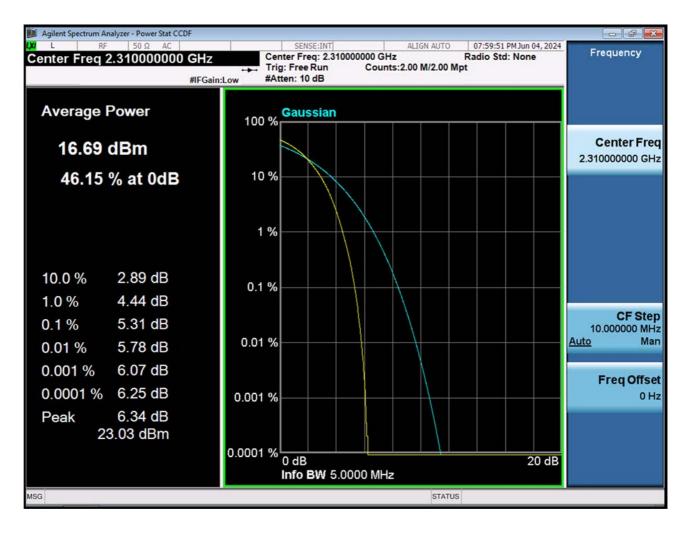
#### LTE B30\_5 M\_PAR\_Mid\_64QAM\_FullRB



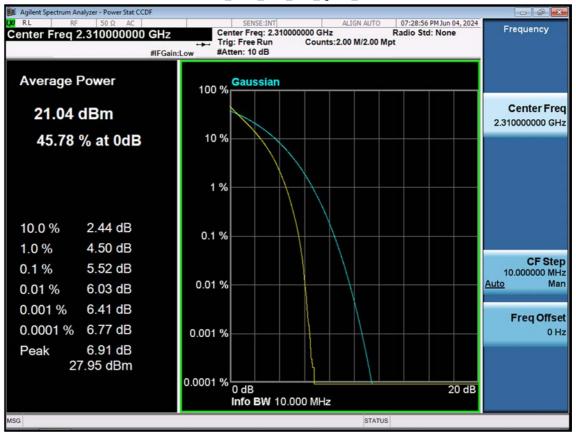




### LTE B30\_5 M\_PAR\_Mid\_256QAM\_FullRB

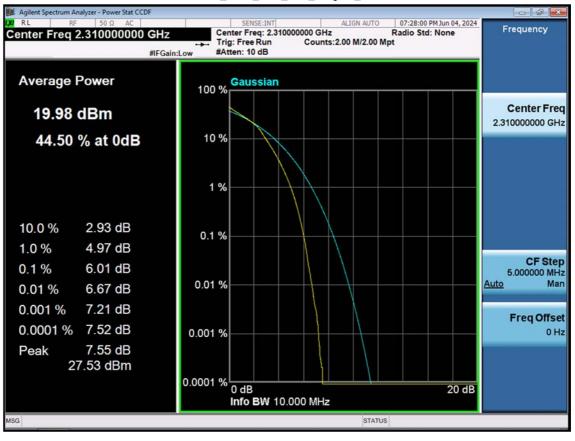






#### LTE B30\_10 M\_PAR\_Mid\_QPSK\_FullRB

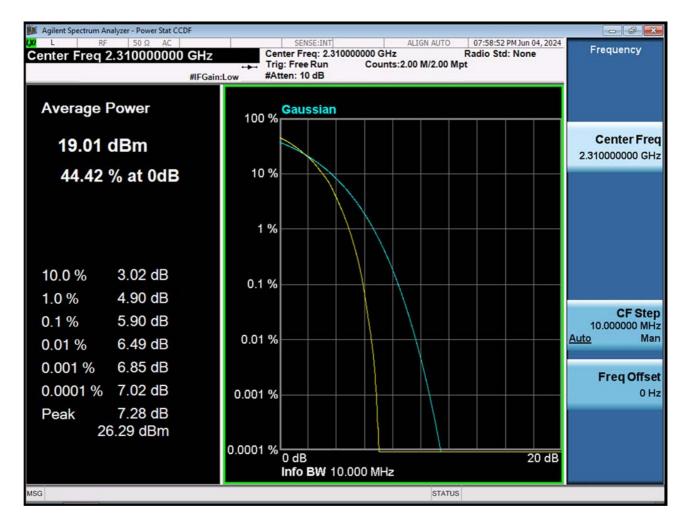




#### LTE B30\_10 M\_PAR\_Mid\_16QAM\_FullRB







#### LTE B30\_10 M\_PAR\_Mid\_64QAM\_FullRB





### LTE B30\_10 M\_PAR\_Mid\_256QAM\_FullRB







Milent Spectrum Analyzer - Occupied B	w						
RL         RF         50 Ω         AC           Center Freq 2.31000000         PASS         Ref Offset 27.4	#IFGain:Low	T	310000000 GHz	ALIGN AUTO	Radio Std		Frequency
10 dB/div Ref 40.00 dB Log 30.0 20.0	·m		nurran				Center Freq 2.310000000 GHz
10.0 0.00 -10.0 -20.0 -30.0	л				hundrand	m	
40.0 50.0 Center 2.31 GHz #Res BW 100 kHz		#VBW :	390 kHz			an 10 MHz eep 1 ms	CF Step 1.000000 MH <u>Auto</u> Mar
	Occupied Bandwidth 4.5315 MH			29.6 dBm			Freq Offse 0 Hi
Transmit Freq Error x dB Bandwidth	16.129 I 5.245 N		W Power B		9.00 % .00 dB		
NSG				STATU	IS		

## LTE B30\_5 M\_OBW\_Mid\_QPSK\_FullRB





Agilent Spectrum Analyzer - Occupied BV	1			-			
RL         RF         50 Ω         AC           Center Freq 2.31000000         PASS         Ref Offset 27.4 c           Ref 0ffset 27.4 c         Ref 40.00 dB	#IFGain:Low		: 2.31000000 un Av	ALIGN A GHz g Hold: 500/50	Radio S	33 PM Jun 04, 2024 ttd: None vevice: BTS	Frequency
30.0 20.0							Center Fred 2.310000000 GHz
10.0 0.00 -10.0 -20.0 -20.0 -20.0 -40.0 -50.0 -40.0 -50.0 -40.0 -50.0 -20.1 -20.1 -20.0 -20.		#\/BIA	/ 390 kHz		S	Dan 10 MHz weep 1 ms	CF Step 1.000000 MHz Auto Mar
Occupied Bandwidth 4.5318 MH		т	otal Powe	r ;	28.5 dBm		Freq Offse 0 H:
Transmit Freq Error x dB Bandwidth	23.646 I 5.325 N	kHz OBW Power			99.00 % -26.00 dB		
MSG				0	STATUS		

## LTE B30\_5 M\_OBW\_Mid\_16QAM\_FullRB





Agilent Spectrum Analyzer - Occupied BW							
Center Freq 2.310000000 PASS	GHz #IFGain:Low	SENSE:INT Center Freq: 2.3 Trig: Free Run #Atten: 10 dB		ALIGN AUTO	Radio St	BPM Jun 04, 2024 d: None wice: BTS	Frequency
Ref Offset 27.4 d 10 dB/div Ref 40.00 dBr							
30.0 20.0							Center Freq 2.310000000 GHz
10.0	mm	mmmm	mmm	m			
0.00	h			2			
-20.0				N.M.	humm	man man	
-40.0							
-50.0							CF Step 1.000000 MHz
Center 2.31 GHz #Res BW 100 kHz		#VBW 3	90 kHz			an 10 MHz eep 1 ms	<u>Auto</u> Man
	Occupied Bandwidth 4.5282 MH			28.7 dBm			Freq Offset 0 Hz
Transmit Freq Error	21.211 k	Hz OBV	V Power	9	9.00 %		
x dB Bandwidth	5.383 M	IHz x dE	3	-26	.00 dB		
MSG				STATU	JS		

## LTE B30\_5 M\_OBW\_Mid\_64QAM\_FullRB





J Agilent Spectrum Analyzer - Occupied I			NSE:INT	-	ALIGN AUTO	08:08:22	PM Jun 04, 2024	
Center Freq 2.31000000		Center Freq: 2.310000000 GHz R Trig: Free Run Avg Hold: 500/500					None	Frequency
Ref Offset 27.4 0 dB/div Ref 40.00 dE								
20.0								Center Fre 2.310000000 GH
0.0	frank	- Mannara	·		m			
0.0 0.0 mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm					- Jun	M. Market	mm	
0.0								CF Ste
enter 2.31 GHz Res BW 100 kHz		#VE	≠VBW 390 kHz			Span 10 M Sweep 11		1.000000 MH
	Occupied Bandwidth 4.5379 Mł		Total Pow MHz			.3 dBm		Freq Offse 0 ⊦
Transmit Freq Error	13.489	kHz	OBW P	ower	9	9.00 %		
x dB Bandwidth	5.774 N	74 MHz x dB		-26.00 dB				
SG					STAT	บร		

## LTE B30\_5 M\_OBW\_Mid\_256QAM\_FullRB





Agilent Spectrum Analyzer - Occupied BW					_		
RL         RF         50 Ω         AC           Center Freq 2.310000000         PASS         Ref Offset 27.4 d           Ref 0ffset 27.4 d         Ref 40.00 dBr	#IFGain:Low	SENSE:INT Center Freq: 2.310 Trig: Free Run #Atten: 10 dB		500/500	07:28:49 Radio Sto Radio De		Frequency
20.0							Center Freq 2.310000000 GHz
10.0 0.00 10.0 -20.0 -20.0 -40.0 -50.0				~~  		nin man	CF Step
Center 2.31 GHz #Res BW 200 kHz		#VBW 820	kHz			an 20 MHz eep 1 ms	2.000000 MHz <u>Auto</u> Mar
Occupied Bandwidi 9.	<sup>h</sup> 0447 Mł		Power	29.4	dBm		Freq Offset 0 Hz
Transmit Freq Error x dB Bandwidth	13.956 k 10.33 N		Power		0.00 % 00 dB		
MSG				STATU	5		

## LTE B30\_10 M\_OBW\_Low\_QPSK\_FullRB





Agilent Spectrum Analyzer - Occupied B	w	1.2	ENSE:INT	_	ALIGN AUTO	07-07-5	0112 - 01 2021	
Center Freq 2.31000000		Center Freq: 2.31000000 GHz Rad					3 PM Jun 04, 2024 d: None evice: BTS	Frequency
Ref Offset 27.4 10 dB/div Ref 40.00 dB								
20.0								Center Free 2.310000000 GH
10.0	mannon	aran ang ang ang ang ang ang ang ang ang a	Whenthern	ᡙᢆᢦ᠊ᡒᡗᠯᢢᢛᡃᠵ᠊ᠬ᠇ᡟ	ring			
0.00 10.0 20.0	∧ <sup>ℓ</sup>				Jorna Jorna	NA .8.08		
20.0 10 10 10 10 10 10 10 10 10 10 10 10 10						* ·· ver-ulynie	nandrunp	
center 2.31 GHz								CF Ste 2.000000 MH
Res BW 200 kHz		#\	/BW 8201	kHz			an 20 MHz /eep  1 ms	<u>Auto</u> Ma
	Occupied Bandwidth 9.0371 MI			ower	28.5 dBm			Freq Offse 0 H
Transmit Freq Error	17.835	kHz	OBW P	ower	9	9.00 %		
x dB Bandwidth	10.37 N	lHz	x dB		-26	.00 dB		
ISG					STAT	JS		

## LTE B30\_10 M\_OBW\_Low\_16QAM\_FullRB





Agilent Spectrum Analyzer - Occupied B	N		CONCE-THE	_		07-00-171		
2 RL RF 50Ω AC Center Freq 2.31000000 PASS	0 GHz #IFGain:Low	Center	SENSE:INT Freq: 2.3100 ree Run : 10 dB		ALIGN AUTO	Radio Std Radio Dev		Frequency
Ref Offset 27.4 10 dB/div Ref 40.00 dB								
20.0								Center Free 2.310000000 GH
10.0	formandes	- Transferra	when we	wmwn./hhus	r man			
0.00 10.0 20.0	/				- Arter	~www.www.ww		
40.0						- WEAT IN MAN	and a support of the	
50.0							n 20 MHz	CF Ste 2.000000 MH <u>Auto</u> Ma
Res BW 200 kHz		#\	/BW 8201	kHz		Swe	eep 1 ms	
	Occupied Bandwidth 9.0627 MI			ower	28.	3 dBm		Freq Offse 0 H:
Transmit Freq Error	20.225	kHz	OBW P	ower	9	9.00 %		
x dB Bandwidth	10.50 N	<b>/Hz</b>	x dB		-26	.00 dB		
ISG					STAT	JS		

## LTE B30\_10 M\_OBW\_Low\_64QAM\_FullRB



Magilent Spectrum Analyzer - Occu			e etter				
Center Freq 2.31000 PASS	AC 00000 GHz #IFGain:Low			ALIGN / Hz Hold: 500/5	Radio Std:		Frequency
Ref Offset 10 dB/div Ref 40.0							
30.0 20.0							Center Freq 2.310000000 GHz
0.00		Antonion	-un hastran	menterner			
-10.0 -20.0 ftphanmannanalination	mand			\Y	mannen	and the state of the	
-30.0							
-50.0 Center 2.31 GHz					Spa	n 20 MHz	CF Step 2.000000 MHz Auto Man
#Res BW 200 kHz		#VBV	V 820 kHz			ep 1 ms	
Occupied Band			fotal Power		25.2 dBm		Freq Offset 0 Hz
	9.0454 M	HZ					
Transmit Freq Err	ror 7.411	kHz (	DBW Power		99.00 %		
x dB Bandwidth	11.28	MHz	dB		-26.00 dB		
MSG					STATUS		

## LTE B30\_10 M\_OBW\_Mid\_256QAM\_FullRB



RL	ctrum Analyzer RF	50 Ω AC		SENSE:IN	П	ALIGN AUTO	07:11:14 PM	1 Jun 04, 2024	
enter F	req 5.01	5000000	GHz PNO: Fast IFGain:Low		#Avg	Type: RMS	TRACE	<b>1 2 3 4 5 6</b> A <b>MMMM</b> A A A A A A A	Frequency
) dB/div	Ref 0.0					Mk	r1 3.690 -77.45	5 GHz 5 dBm	Auto Tur
<b>°g</b> 10.0 20.0		√2							Center Fre 5.015000000 GF
0.0 0.0 0.0									Start Fr 30.000000 M
0.0			~~~	1				amakamaan	<b>Stop Fr</b> 10.000000000 GI
art 30   Res BW	1.0 MHz	X	#VB	W 3.0 MHz	FUNCTION	Sweep 17	Stop 10.0 .33 ms (20	001 pts)	CF St 997.000000 M <u>Auto</u> M
1 N		3.	690 5 GHz 306 2 GHz	-77.455 dBm -6.392 dBm	. ONCHON		- Sicho	E	Freq Offs 0
7 8 9 0 1									

## LTE B30\_5 M\_Conducted Spurious(30 M-10 G)\_Low\_QPSK\_1RB



Agilent Spectrum Analyzer - Swept SA								
RL RF 50 Ω AC Center Freq 5.015000000	PNO: Fast +>	SENSE:INT	ALIGN AUTO #Avg Type: RMS	07:14:01 PM Jun 04, 2024 TRACE 1 2 3 4 5 0 TYPE A WWWW DET A A A A A A A	Frequency			
Mkr1 3.729 4 GHz 0 dB/div Ref 0.00 dBm -77.359 dBm								
					Center Fre 5.015000000 GH			
40.0					Start Fre 30.000000 M⊦			
70.0				RMS	Stop Fre 10.00000000 GF			
tart 30 MHz Res BW 1.0 MHz	#VBW	3.0 MHz	Sweep 17	Stop 10.000 GHz .33 ms (20001 pts)	CF Ste 997.000000 Mł <u>Auto</u> Ma			
1         N         1         f         3.           2         N         1         f         2.           3         3         1         f         2.           4         5         5         5         6           6         7         7         7         7           8         9         9         9         1	729 4 GHz 308 6 GHz	-77.359 dBm -6.412 dBm			<b>Freq Offs</b> 0 H			
		ш		· ·				
G			STATUS	5				

## LTE B30\_5 M\_Conducted Spurious(30 M-10 G)\_Mid\_QPSK\_1RB



RL	ectrum Analyzer	50 Ω AC		5	NSE:INT		ALIGN AUTO	07:15:33.6	PM Jun 04, 2024	
	req 5.01		0 GHz PNO: Fast IFGain:Low		e Run	#Avg Typ		TRAC	2         3         4         5         6           PE         A         MMMMMM         A </th <th>Frequency</th>	Frequency
D dB/div Ref 0.00 dBm -77.175 dBm									Auto Tu	
og 0.0 0.0			2							Center Fre 5.015000000 GH
0.0 0.0 0.0										Start Fro 30.000000 Mi
0.0				1					RMS	Stop Fre 10.00000000 GF
tart 30 I Res BW	1.0 MHz	X		3W 3.0 MH;			weep 17	.33 ms (2	.000 GHz 0001 pts)	CF Ste 997.000000 MI <u>Auto</u> M
1 N 2 2 N 2 3 4 5 5 6	1 f		3.696 5 GHz 2.311 1 GHz	-77.175 d -6.742 d	Bm					Freq Offs 01
7 8 9 0 1				ш					•	

## LTE B30\_5 M\_Conducted Spurious(30 M-10 G)\_High\_QPSK\_1RB



RL		Ω AC		SENSE:	INT	ALIGN AUTO	07:26:40 PM Ju		
enter F	req 5.015	000000	CHZ PNO: Fast - IFGain:Low	Trig: Free Ru #Atten: 10 dl	un	g Type: RMS	TRACE	2 3 4 5 6	Frequency
0 dB/div	Ref 0.00					Mk	r1 3.703 9 -77.420	GHz dBm	Auto Tune
og 10.0 20.0 30.0		√2							Center Fre 5.015000000 GH
10.0 50.0 50.0									Start Fre 30.000000 Mi
70.0				1	بي <del>، م</del> ينور، م			RMS	<b>Stop Fre</b> 10.00000000 GF
tart 30 I Res BW	1.0 MHz		#VB	W 3.0 MHz	FUNCTION	Sweep 17	Stop 10.00 .33 ms (2000	01 pts)	CF Ste 997.000000 Mi Auto Mi
1 N 2 3 4 5 5	1 f	× 3. 2.	703 9 GHz 306 2 GHz	-77.420 dBm -6.223 dBm		PONCTION WIDTH	FUNCTION		Freq Offset 0 Hz
6 7 8 9 0									
				ш					
G						STATUS	5		

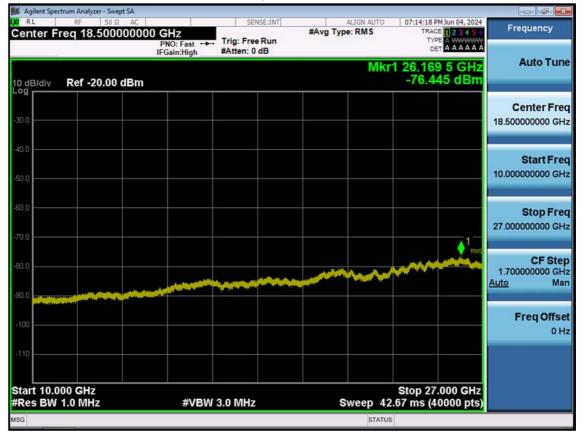
#### LTE B30\_10 M\_Conducted Spurious(30 M-10 G)\_Low\_QPSK\_1RB



	ctrum Analyzer - Swept SA			_				
Center F	RF 50 Ω AC req 18.5000000	000 GHz	SENSE:INT	ALIGN AUTO #Avg Type: RMS	07:11:31 PM Jun 04, 2024 TRACE 1 2 3 4 5 6 TYPE A	Frequency		
10 dB/div	Ref -20.00 dBm	IFGain:High						
-30.0						Center Freq 18.500000000 GHz		
-40.0						Start Freq 10.000000000 GHz		
-60.0					1	<b>Stop Freq</b> 27.000000000 GHz		
-80.0					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	CF Step 1.700000000 GHz <u>Auto</u> Man		
-100						Freq Offset 0 Hz		
Start 10.0		#\/B\A(	3.0 MHz	Sween A	Stop 27.000 GHz 2.67 ms (40000 pts)			
MSG				STATU	7			

# LTE B30\_5 M\_Conducted Spurious(10 G-26.5 G)\_Low\_QPSK\_1RB





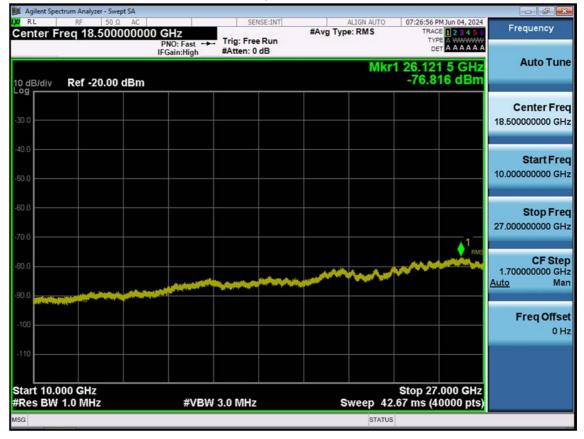
#### LTE B30\_5 M\_Conducted Spurious(10 G-26.5 G)\_Mid\_QPSK\_1RB





#### LTE B30\_5 M\_Conducted Spurious(10 G-26.5 G)\_High\_QPSK\_1RB





#### LTE B30\_10 M\_Conducted Spurious(10 G-26.5 G)\_Low\_QPSK\_1RB



					_	ctrum Analyzer - Swept SA	
Frequency	PM Jun 04, 2024 CE 1 2 3 4 5 6 (PE A WWWWW DET A A A A A A	06:20:19 TRA TY	#Avg Type: RMS	SENSE:INT	GHz PNO: Fast ↔	RF 50 Ω AC req 2.284000000	Center F
Auto Tune	Mkr1 2.287 848 GHz -53.158 dBm			#Atten: 10 dB	IFGain:Low	Ref Offset 27.4 dB Ref 0.00 dBm	10 dB/div Log
Center Freq 2.284000000 GHz							-10.0
Start Freq 2.280000000 GHz							-20.0
<b>Stop Freq</b> 2.288000000 GHz	-40.00 dBm						-40.0
CF Step 800.000 kHz <u>Auto</u> Man							-60.0
Freq Offset 0 Hz							-80.0
	8000 GHz (1001 pts)	top 2.28 1 ۵۵۵ م	\$ #Sween	3.0 MHz	#VB\\	0000 GHz	Start 2.28
	(noo r pro)	11000-5	STATUS		<i>"</i> <b>VDV</b>		MSG

## LTE B30\_5 M\_Band Edge(2280MHz-2288MHz)\_Low\_QPSK\_FullRB



				trum Analyzer - Swept SA	
Frequency	06:20:36 PM Jun 04, 2024 TRACE 2 3 4 5 5 TYPE A WWWW DET A A A A A A	#Avg Type: RMS	. Trig: Free Run	RF 50 Ω AC req 2.290000000 GHz	Center Free
Auto Tune	2.291 988 GHz -50.067 dBm	Mkr1	#Atten: 10 dB	PNO: Fast → IFGain:Low Ref Offset 27.4 dB Ref 0.00 dBm	10 dB/div
Center Freq 2.290000000 GHz					-10.0
Start Freq 2.288000000 GHz	-37.00 dBm				-20.0
<b>Stop Freq</b> 2.292000000 GHz	-37.00 dem				-40.0
CF Step 400.000 kHz <u>Auto</u> Man					-60.0
Freq Offset 0 Hz					-80.0
	top 2.292000 GHz 1.000 s (1001 pts)	S #Sweep	/ 3.0 MHz		-90.0 Start 2.2880 #Res BW 1.0
	pto)	STATUS			MSG

## LTE B30\_5 M\_Band Edge(2288MHz-2292MHz)\_Low\_QPSK\_FullRB



	ctrum Analyzer - Swept SA					
Center F	RF 50 Ω AC req 2.29400000	0 GHz	SENSE:INT	ALIGN AUTO #Avg Type: RMS	06:20:52 PM Jun 04, 2024 TRACE 1 2 3 4 5 6	Frequency
ochter i	109 2.20400000	PNO: Fast +	, Trig: Free Run #Atten: 10 dB		TRACE 1 2 3 4 5 5 TYPE A WWWWW DET A A A A A A	
10 dB/div Log	Ref Offset 27.4 dB Ref 0.00 dBm			Mkr1	Auto Tune	
-10.0						Center Freq 2.294000000 GHz
30.0					-31.00 dBm	Start Fred 2.292000000 GHz
40.0					<b>`</b>	Stop Fred 2.296000000 GHz
60.0						CF Step 400.000 kH Auto Mar
80.0						Freq Offse 0 H:
-90.0	92000 GHz				stop 2.296000 GHz	
#Res BW		#VBV	V 3.0 MHz	#Sweep	1.000 s (1001 pts)	
ISG				STATUS		

## LTE B30\_5 M\_Band Edge(2292MHz-2296MHz)\_Low\_QPSK\_FullRB



				trum Analyzer - Swept SA	
Frequency	06:21:09 PM Jun 04, 2024 TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A A A A A A A	ALIGN AUTO	SENSE:INT	RF 50 Ω AC req 2.298000000 GHz PNO: Fast ↔	Center F
Auto Tune	2.299 988 GHz -30.930 dBm	Mkr1	#Atten: 10 dB	Ref Offset 27.4 dB Ref 0.00 dBm	10 dB/div Log r
Center Freq 2.298000000 GHz					-10.0
Start Freq 2.296000000 GHz	-25.00 ( <sup>B</sup> m				-20.0
<b>Stop Freq</b> 2.300000000 GHz					-40.0
CF Step 400.000 kHz <u>Auto</u> Man					-60.0
Freq Offset 0 Hz					-80.0
	top 2.300000 GHz 1.000 s (1001 pts)	S #Sweep	3.0 MHz	6000 GHz 1.0 MHz #VBM	Start 2.29
		STATUS			MSG

## LTE B30\_5 M\_Band Edge(2296MHz-2300MHz)\_Low\_QPSK\_FullRB



				_	ctrum Analyzer - Swept SA	
Frequency	06:21:26 PM Jun 04, 2024 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A A A A A A	#Avg Type: RMS	SENSE:INT	GHz	RF 50 Ω AC req 2.302000000	enter F
Auto Tur	2.303 940 GHz -32.022 dBm	Mkr1		I Gan. Low	Ref Offset 27.4 dB Ref 0.00 dBm	) dB/div
Center Fre 2.302000000 GF						0.0
Start Fre 2.300000000 GH	-23.00 dBm					0.0
<b>Stop Fre</b> 2.304000000 GH						0.0
CF Ste 400.000 kł Auto Ma						0.0
Freq Offs 0 H						0.0
						0.0
	top 2.304000 GHz 1.000 s (1001 pts)	s #Sweep	Hz	#VBW 300 kHz	00000 GHz 100 kHz	
		STATUS				SG

#### LTE B30\_5 M\_Band Edge(2300MHz-2304MHz)\_Low\_QPSK\_FullRB

Note : We used a narrower RBW in order to increase accuracy.

Calculation = Reading Value + 10 x log(1 MHz/100 kHz) dB = -32.022 dBm + 10 dB = -22.022 dBm



				_	_	trum Analyzer - Swept SA	
Frequency	06:21:42 PM Jun 04, 2024 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A A A A A A A	ALIGN AUTO #Avg Type: RMS	sense:INT		O GHz PNO: Wide ↔	RF 50 Ω AC req 2.304500000	Center F
Auto Tune	2.304 996 GHz -25.251 dBm	Mkr1	10 dB	#Atten: 10	IFGain:Low	Ref Offset 27.4 dB Ref 0.00 dBm	10 dB/div
Center Freq 2.304500000 GHz	-13.00 dBm						-10.0
Start Freq 2.304000000 GHz	and the second s	herry Byte In any Balance and Balance and	atmand to spend to program				-20.0
Stop Freq 2.305000000 GHz							-40.0
CF Step 100.000 kHz <u>Auto</u> Man							-60.0
Freq Offset 0 Hz							-80.0
	op 2.3050000 GHz	St				40000 GHz	
	1.000 s (1001 pts)	#Sweep status	Z	V 200 kHz	#VBW	51 KHZ	#Res BW

## LTE B30\_5 M\_Band Edge(2304MHz-2305MHz)\_Low\_QPSK\_FullRB



Agilent Spectrum Analyzer - Swept SA						
Center Freq 2.317500000	BNO: Fast Trig: Free		06:21:59 PM Jun 04, 2024 TRACE 2 3 4 5 6 TYPE A WWWWW DET A A A A A A	Frequency		
Ref Offset 27.4 dB 10 dB/div Ref 0.00 dBm	IFGain:Low #Atten: 10		Mkr1 2.315 000 GHz -31.507 dBm			
-10.0			-13.00 dBm	Center Freq 2.317500000 GHz		
-20.0				Start Freq 2.315000000 GHz		
-40.0				<b>Stop Freq</b> 2.320000000 GHz		
-60.0				CF Step 500.000 kHz <u>Auto</u> Mar		
.80.0				Freq Offset 0 Hz		
90.0 Start 2.315000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	S #Sween	top 2.320000 GHz 1.000 s (1001 pts)			
MSG		STATUS				

### LTE B30\_5 M\_Band Edge(2315MHz-2320MHz)\_Low\_QPSK\_FullRB



				trum Analyzer - Swept SA	
Frequency	06:22:16 PM Jun 04, 2024 TRACE 1 2 3 4 5 5 TYPE A WWWWW DET A A A A A A A	#Avg Type: RMS	. Trig: Free Run	RF 50 Ω AC req 2.322000000 GHz	
Auto Tune	2.320 012 GHz -43.083 dBm	Mkr1	#Atten: 10 dB	PNO: Fast → IFGain:Low Ref Offset 27.4 dB Ref 0.00 dBm	Ref O 10 dB/div Ref
Center Freq 2.322000000 GHz					-10.0
Start Freq 2.320000000 GHz	-25.00 dBm				-20.0
<b>Stop Freq</b> 2.324000000 GHz					-40.0 1
CF Step 400.000 kHz <u>Auto</u> Man					-60.0
Freq Offset 0 Hz					-60.0
	top 2.324000 GHz 1.000 s (1001 pts)	S #Sweep	/ 3.0 MHz		Start 2.320000 (#Res BW 1.0 M
		STATUS			ISG

## LTE B30\_5 M\_Band Edge(2320MHz-2324MHz)\_Low\_QPSK\_FullRB



	ctrum Analyzer - Swept SA					
Center E	RF 50 Ω AC req 2.32600000	00 GHz	SENSE:INT	ALIGN AUTO #Avg Type: RMS	06:22:32 PM Jun 04, 2024 TRACE 1 2 3 4 5 6	Frequency
Center T	100 2.3200000	PNO: Fast	Trig: Free Run #Atten: 10 dB		TRACE 1 2 3 4 5 6 TYPE A WWWW DET A A A A A A A	
10 dB/div Log	Ref Offset 27.4 dB Ref 0.00 dBm			Mkr1	Auto Tune	
-10.0						Center Freq 2.326000000 GHz
-20.0					-31.00 dBm	Start Freq 2.324000000 GHz
-40.0						Stop Freq 2.328000000 GHz
-60.0						CF Step 400.000 kHz <u>Auto</u> Mar
80.0						Freq Offset 0 Hz
-90.0	4000 GHz				Stop 2.328000 GHz	
#Res BW	1.0 MHz	#VBW	3.0 MHz	#Sweep	1.000 s (1001 pts)	
MSG				STATUS		

## LTE B30\_5 M\_Band Edge(2324MHz-2328MHz)\_Low\_QPSK\_FullRB



						ctrum Analyzer - Swept SA	
Frequency	9 PM Jun 04, 2024 ACE 2 3 4 5 6 TYPE A WWWWWW DET A A A A A A A		#Avg Type: RMS	SENSE:INT		RF 50 Ω AC req 2.332500000	Center F
Auto Tune	000 GHz 264 dBm	2.328	Mkr1	#Atten: 10 dB	Ref Offset 27.4 dB Ref 0.00 dBm	10 dB/div	
Center Freq 2.332500000 GHz							-10.0
Start Freq 2.328000000 GHz							-20.0
<b>Stop Freq</b> 2.337000000 GHz	-37.00 dBm						-40.0
<b>CF Step</b> 900.000 kHz <u>Auto</u> Man							-60.0
Freq Offset 0 Hz							-80.0
	37000 GHz 5 (1001 pts)	top 2.33	#Swaan	3.0 MHz	#\/B\A	28000 GHz	-90.0 Start 2.32 #Res BW
	(Toor pis)		#Swagp STATUS	0.0 10112	#VDV		ARGS DVV

### LTE B30\_5 M\_Band Edge(2328MHz-2337MHz)\_Low\_QPSK\_FullRB



	ctrum Analyzer - Swept SA					
Center F	RF 50 Ω AC	0 GHz	SENSE:INT	#Avg Type: RMS	06:23:05 PM Jun 04, 2024 TRACE 1 2 3 4 5 6	Frequency
		PNO: Fast ++ IFGain:Low	Trig: Free Run #Atten: 10 dB		TYPE A WWWWW DET A A A A A A	10 July 10 July
10 dB/div Log	Ref Offset 27.4 dB Ref 0.00 dBm			Mkr1	2.340 132 GHz -52.938 dBm	Auto Tune
-10.0						Center Freq 2.339000000 GHz
-20.0					-31.00 dBm	Start Freq 2.337000000 GHz
-40.0					I	Stop Freq 2.341000000 GHz
-60.0						CF Step 400.000 kHz <u>Auto</u> Mar
-80.0						Freq Offset 0 Hz
	37000 GHz				Stop 2.341000 GHz	
#Res BW	1.0 MHz	#VBW	3.0 MHz	#Sweep	1.000 s (1001 pts)	
130				STATUS		

## LTE B30\_5 M\_Band Edge(2337MHz-2341MHz)\_Low\_QPSK\_FullRB



F	RF 50 Ω AC q 2.343000000 Ref Offset 27.4 dB Ref 0.00 dBm	O GHz PNO: Fast IFGain:Low	SENSE:INT Trig: Free Run #Atten: 10 dB	ALIGN AUTO #Avg Type: RMS	06:23:21 PM Jun 04, 2024 TRACE 1 2 3 4 5 0 TYPE A 00000000000000000000000000000000000	Frequency
10 dB/div	Ref Offset 27.4 dB	PNO: Fast ++			TYPE A WWWWW DET A A A A A A	
10 dB/div						Auto Tune
				MKr	2.343 192 GHz -52.919 dBm	
-10.0						Center Freq 2.343000000 GHz
-20.0					-25.00 dBm	Start Freq 2.341000000 GHz
-40.0						Stop Freq 2.345000000 GHz
-60.0						CF Step 400.000 kHz <u>Auto</u> Mar
-80.0						Freq Offset 0 Hz
-90.0 Start 2.3410					Stop 2.345000 GHz	
#Res BW 1.	0 MHz	#VBW	3.0 MHz	#Sweep	1.000 s (1001 pts)	

## LTE B30\_5 M\_Band Edge(2341MHz-2345MHz)\_Low\_QPSK\_FullRB



				_	_	nalyzer - Swept SA	
	06:23:39 PM Jun 04, 2024 TRACE 2 3 4 5 6 TYPE A WWWW DET A A A A A A	ALIGN AUTO	#/	SENSE	GHz	50 Ω AC 2.355000000	nter Freq
z Auto Ti	2.353 68 GHz -52.664 dBm	Mkr	2	#Atten: 10 d	IFGain:Low	Offset 27.4 dB f 0.00 dBm	dB/div Re
Center F 2.355000000	-13.00 dBm						0
Start F 2.345000000							o o
Stop F 2.365000000				↓1			o
CF S 2.000000 I Auto							0
Freq Off							0
Hz	Stop 2.36500 GHz						art 2.34500
(5)	1.000 s (1001 pts)	#Sweep		3.0 MHz	#VBW	VIHŻ	es BW 1.0

## LTE B30\_5 M\_Band Edge(2345MHz-2365MHz)\_Low\_QPSK\_FullRB



	ctrum Analyzer - Swept SA					
RL Center F	RF 50 Ω AC		SENSE:INT	ALIGN AUTO #Avg Type: RMS	06:23:55 PM Jun 04, 2024 TRACE 1 2 3 4 5 6	Frequency
	100 2.30230000	PNO: Fast ↔ IFGain:Low	<ul> <li>Trig: Free Run #Atten: 10 dB</li> </ul>			Auto Tune
10 dB/div Log	Ref Offset 27.4 dE Ref 0.00 dBm	3		WIKT	2.373 155 GHz -52.903 dBm	
-10.0						Center Fred 2.382500000 GHz
-20.0						Start Fred 2.365000000 GH2
-40.0		1			-40.00 dBm	<b>Stop Fred</b> 2.400000000 GH2
70.0						CF Step 3.500000 MH <u>Auto</u> Mar
80.0						Freq Offse 0 H
	6500 GHz 1.0 MHz	#\/B\/	Ø 3.0 MHz	#Sweep	Stop 2.40000 GHz 1.000 s (1001 pts)	
ISG		#VDV	- 5.0 WI12	#Sweep		
				on not		

## LTE B30\_5 M\_Band Edge(2365MHz-2400MHz)\_Low\_QPSK\_FullRB



				ctrum Analyzer - Swept SA	
Frequency	06:28:44 PM Jun 04, 2024 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A A A A A A	#Avg Type: RMS	SENSE:INT	RF 50 Ω AC req 2.284000000 GHz PNO: Fast ↔	
Auto Tune	2.288 000 GHz -53.209 dBm	Mkr1	#Atten: 10 dB	Ref Offset 27.4 dB Ref 0.00 dBm	
Center Freq 2.284000000 GHz					-10.0
Start Freq 2.280000000 GHz					-20.0
<b>Stop Freq</b> 2.288000000 GHz	-40.00 dBm				-40.0
CF Step 800.000 kHz <u>Auto</u> Mar					-60.0
Freq Offset 0 Hz					80.0
	top 2.288000 GHz 1.000 s (1001 pts)	S #Sween	V 3.0 MHz		-30.0 Start 2.2800 #Res BW 1.0
	1000 0 (1001 pt3)	STATUS			MSG

#### LTE B30\_5 M\_Band Edge(2280MHz-2288MHz)\_Mid\_QPSK\_FullRB



	ctrum Analyzer - Swept SA					
Center F	RF 50 Ω AC req 2.29000000	0 GHz	SENSE:INT	ALIGN AUTO #Avg Type: RMS	06:29:01 PM Jun 04, 2024 TRACE 1 2 3 4 5 6	Frequency
	100 2.2000000	PNO: Fast IFGain:Low	Trig: Free Run #Atten: 10 dB			Auto Tune
10 dB/div	Ref Offset 27.4 dB Ref 0.00 dBm			MKr1	2.292 000 GHz -51.558 dBm	
-10.0						Center Freq 2.290000000 GHz
-20.0						Start Freq 2.288000000 GHz
-40.0					-37.00 dBm	Stop Fred 2.292000000 GHz
-60.0						CF Step 400.000 kHz Auto Mar
80.0						Freq Offse 0 H:
Start 2.28	38000 GHz	#\@\A	3.0 MHz	#Swoon	Stop 2.292000 GHz 1.000 s (1001 pts)	
ISG	1.0 1012	#VDV	5.0 WINZ	#Sweep		
				onitio		

## LTE B30\_5 M\_Band Edge(2288MHz-2292MHz)\_Mid\_QPSK\_FullRB



			_	_	_	_	zer - Swept SA		
Frequency	PM Jun 04, 2024 CE 1 2 3 4 5 6 (PE A A A A A A A	06:29:17 TRA T)	#Avg Type: RMS	e Run		GHz PNO: Fast ↔	50 Ω AC 294000000	<sup>RF</sup> req 2.2	enter F
Auto Tune	984 GHz 02 dBm	2.295	Mkr1		#Atten: 1	IFGain:Low	fset 27.4 dB .00 dBm		0 dB/div
Center Freq 2.294000000 GHz									og
Start Freq 2.292000000 GHz	-31.00 dBm								20.0
<b>Stop Freq</b> 2.296000000 GHz	1								i0.0 i0.0
CF Step 400.000 kHz <u>Auto</u> Man									i0.0 70.0
Freq Offset 0 Hz									:0.0
	6000 GHz (1001 pts)	top 2.29	s #Sween	,	3.0 MHz	#VBW		92000 G	
	pro/		STATUS						G

### LTE B30\_5 M\_Band Edge(2292MHz-2296MHz)\_Mid\_QPSK\_FullRB



				ctrum Analyzer - Swept SA	
Frequency	06:29:35 PM Jun 04, 2024 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A A A A A A	#Avg Type: RMS	SENSE:INT	RF         50 Ω         AC           req 2.298000000 GHz         PNO: Fast<	Center Fre
Auto Tune	2.299 972 GHz -37.362 dBm	Mkr1	#Atten: 10 dB	IFGain:Low Ref Offset 27.4 dB Ref 0.00 dBm	10 dB/div
Center Freq 2.298000000 GHz					-10.0
Start Freq 2.296000000 GHz	-25.00 dBm				-20.0
Stop Fred 2.300000000 GH2					40.0 50.0
CF Step 400.000 kH Auto Mar					70.0
Freq Offse 0 H					80.0
	top 2.300000 GHz 1.000 s (1001 pts)	S #Sween	V 3.0 MHz		90.0 Start 2.2960 #Res BW 1
		STATUS			ISG

### LTE B30\_5 M\_Band Edge(2296MHz-2300MHz)\_Mid\_QPSK\_FullRB



Center Freq 2.30250000		ig: Free Run	#Avg Type: RN	AUTO 06:29:51 P IS TRAC TYP	M Jun 04, 2024 E 1 2 3 4 5 6 A MARIANA T A A A A A A	Frequency
Ref Offset 27.4 dB g dB/div Ref 0.00 dBm		Atten: 10 dB	P	/kr1 2.304 9		Auto Tune
-og					-13.00 dBm	Center Freq 2.302500000 GHz
30.0					4	Start Freq 2.300000000 GHz
40.0						<b>Stop Freq</b> 2.305000000 GHz
60.0						CF Step 500.000 kHz <u>Auto</u> Man
80.0						Freq Offsel 0 Hz
30.0 Start 2.300000 GHz #Res BW 1.0 MHz	#VBW 3.0	MHz	#51	Stop 2.305 veep 1.000 s (	5000 GHz 1001 pts)	
ISG				STATUS		

## LTE B30\_5 M\_Band Edge(2300MHz-2305MHz)\_Mid\_QPSK\_FullRB



RL         RF         50 f           Center Freq 2.3175         Ref Offset 27           10 dB/div         Ref 0.00 d           -10 0         -           -20 0         -           -30 0         -           -40 0         -           -60 0         -	PNO: Fast IFGain:Low 7.4 dB	SENSE:INT Trig: Free Run #Atten: 10 dB	ALIGN AUTO #Avg Type: RMS	06:30:07 PM Jun 04, 2024 TRACE 2 2 3 4 5 6 TYPE A WWWW DET A A A A A A -24.445 dBm	Frequency Auto Tune Center Freq 2.317500000 GHz Start Freq
10 dB/div Ref 0.00 d -10 0 -20 0 -30 0 -40 0 -50 0	IFGain:Low		Mkr1	2.315 050 GHz -24.445 dBm	Center Freq 2.317500000 GHz Start Freq
-10.0 -20.0 -30.0 -40.0				-13.00 dBm	2.317500000 GHz Start Freq
40.0		and a free of the same free and a free free free free free			
50.0					2.315000000 GH:
60.0					Stop Free 2.320000000 GH:
70.0					CF Step 500.000 kH Auto Mar
80.0					<b>Freq Offse</b> 0 H
∞ Start 2.315000 GHz #Res BW 1.0 MHz	#\/B\/	¥ 3.0 MHz	#Sween	Stop 2.320000 GHz	
ISG	#VDV		statu		

#### LTE B30\_5 M\_Band Edge(2315MHz-2320MHz)\_Mid\_QPSK\_FullRB



Agilent Spectrum Analyzer - Swept SA				
RL RF 50 Ω AC Center Freq 2.32200000	0 GHz PNO: East	#Avg Type: RMS	06:30:24 PM Jun 04, 2024 TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A A A A A A A	Frequency
Ref Offset 27.4 dB 0 dB/div Ref 0.00 dBm	IFGain:Low #Atten: 10 d	В	2.320 008 GHz -39.177 dBm	Auto Tune
og				Center Freq 2.322000000 GHz
30.0			-25.00 dBm	Start Freq 2.320000000 GHz
50.0	······			<b>Stop Freq</b> 2.324000000 GHz
70.0				CF Step 400.000 kHz <u>Auto</u> Man
80.0				Freq Offset 0 Hz
800 Start 2.320000 GHz Res BW 1.0 MHz	#VBW 3.0 MHz	S #Sweep	top 2.324000 GHz 1.000 s (1001 pts)	
SG		STATUS		

#### LTE B30\_5 M\_Band Edge(2320MHz-2324MHz)\_Mid\_QPSK\_FullRB



Agilent Spectrum Analyzer - Swept SA					
Center Freq 2.32600000	0 GHz PNO: Fast ↔	SENSE:INT	#Avg Type: RMS	06:30:41 PM Jun 04, 2024 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A A A A A A A	Frequency
Ref Offset 27.4 dB 10 dB/div Ref 0.00 dBm	IFGain:Low	#Atten: 10 dB	Mkr1	2.324 008 GHz -44.468 dBm	Auto Tune
-10.0					Center Freq 2.326000000 GHz
-20.0				-31.00 dBm	Start Freq 2.324000000 GHz
-40.0 1					Stop Fred 2.328000000 GHz
60.0					CF Step 400.000 kH Auto Mar
.80.0					Freq Offset 0 Hz
90.0 Start 2.324000 GHz #Res BW 1.0 MHz	#VBW	3.0 MHz	#Sween	Stop 2.328000 GHz 1.000 s (1001 pts)	
MSG	(AL-14)		STATUS		

## LTE B30\_5 M\_Band Edge(2324MHz-2328MHz)\_Mid\_QPSK\_FullRB