

EYSIGH1 -→-	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 10 dB Preamp: Off µW Path: Standard	PNO: Fast Gate: Off I IF Gain: Low Sig Track: Off	#Avg Type: Po Trig: Free Run	wer (RMS <mark>123456</mark> MWWWWW PPPPPP	5.01500	Frequency 00000 GHz	Setting
pectrum ale/Div 10	dB		Ref Level 0.00 d	Bm	Mkr	2 1.854 51 GHz -0.33 dBm	Swe	0000 GHz ept Span ro Span	
0								ull Span	
0 0 0			۸1				Start Fre 30.0000	eq 000 MHz	
0 0 mailtanaith	ant phillippia in the balan	nhilionunnhimilie	al year le la meridiana la sata	englanna <sup>g</sup> acrintespersed	ke-dikanan artarin)	PEAK ในสำนัญช่างสายให	Stop Fre 10.0000	eq 000000 GHz	
			#Video BW 3.0 M	IHz		Stop 10.000 GHz > ~18.1 ms (1001 pts)		TO TUNE	
	MHz						Of Otep	Gamman and a second	
s BW 1.0	MHz T				Sweep	5~18.1 ms (1001 pts)	997.000	0000 MHz	
s BW 1.0 arker Table Mode 1 N 2 N 3		X 4.057 88 GHz 1.854 51 GHz		Function Fu	Sweer	Function Value	997.000 Auto Mar Freq Off 0 Hz	to n	
1 N	٣	4.057 88 GHz	-65.95 dBm	Function Fu			Auto Mar Freq Off	to n fset Scale	

### LTE B25\_20 M\_Conducted Spurious(30 M-10 G)\_Low\_QPSK\_1RB





#### LTE B25\_20 M\_Conducted Spurious(30 M-10 G)\_Mid\_QPSK\_1RB



ectrum Ana ept SA	e		t				10101		Frequency	•
EYSIGHT	Couplin Align: /	ng: DC	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 10 dB Preamp: Off µW Path: Standar	PNO: Fast Gate: Off d IF Gain: Low Sig Track: Off	#Avg Type: Po Trig: Free Rur	wer (RMS 1 2 3 4 5 6 M WWWWW P P P P P P P	5.015	Frequency 000000 GHz	Settings
pectrum ale/Div 10	dB	•		Ref Level 0.00 d	IBm	Mkr	1 3.788 69 GHz -65.02 dBm	s	00000 GHz wept Span	
		2 							ero Span Full Span	
0				1				Start F 30.00	req D000 MHz	
	n kina in	provided to the	energelan un Matterieranda	ht-warmalanarithyride	And Market All and All	ekweerkomektrewietno	PEAK หมู่หรือที่ที่ได้สือสะหัญเสาะได้สะดัง หมู่หรือที่ได้สือสะหัญเสาะได้สะดังได้สะดังได้เป็นสือสะหัญเสาะได้สะดังได้	Stop F 10.00	req 0000000 GHz	
0 rt 30 MHz				#Video BW 3.0 M	MHz		Stop 10.000 GHz		UTO TUNE	
s BW 1.0 arker Table	MHz					Swee	o ~18.1 ms (1001 pts)	CF Ste 997.0	р 00000 MHz	
Mode	Trace	Scale	x	Y	Function	Function Width	Function Value		uto an	
1 N 2 N 3	1	f	3.788 69 GHz 1.914 33 GHz	-65.02 dBm -0.9050 dBm				Freq C 0 Hz	iffset	
4 5 6								X Axis L	bg	
5	2	79	Dec 16, 2024 5:46:19 PM					Signal	Track	

### LTE B25\_20 M\_Conducted Spurious(30 M-10 G)\_High\_QPSK\_1RB



Spectrum Analyzer 1 Swept SA	+					\$	Frequency	v <mark>sta</mark>
KEYSIGHT     Input: RF       RL     Imput: RF       Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 0 dB Preamp: Off µW Path: Standard	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	#Avg Type: Power (F Trig: Free Run	RMS 1 2 3 4 5 6 M WWWWW P P P P P P P	15.00	Frequency 0000000 GHz	Settings
1 Spectrum ▼ Scale/Div 10 dB Log	,	Ref Level -20.00 d	Bm		18.93 GHz -75.05 dBm	<b>_</b> S	00000 GHz wept Span ero Span	
							Full Span	
-40.0						Start F 10.00	req 0000000 GHz	
-60.0						Stop F 20.00	req 0000000 GHz	
-70.0 -80.0 <b>ddfhcJ/ffelwedpole/pla/W</b> -90.0	ndrithinduvanutro	eldinidatur biller	venterilisiren Haylehenge	y kanyan jipi casi ay canalan ha	1 PEAK	CF Ste 1.000	UTO TUNE	
						Freq C 0 Hz	offset	
Start 10.000 GHz #Res BW 1.0 MHz		#Video BW 3.0 M	Hz		Stop 20.000 GHz .5 ms (1001 pts)	X Axis Lo Li	og	
	Pec 16, 2024 5:00:42 PM					Signal (Span Z	Track (oom)	

#### LTE B25\_1.4M\_Conducted Spurious(Above10 G)\_Low\_QPSK\_1RB



Spectrum Analy Swept SA	zer 1 🗸	+				₽	Frequency	▼ <sup>**</sup> / <sub>**</sub>
	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 0 dB Preamp: Off µW Path: Standard	PNO:Fast Gate:Off IF Gain:High Sig Track:Off	#Avg Type: Power (RMS 1 2 3 4 Trig: Free Run M ₩₩₩ P P P P	₩₩ 15.00 P P	r Frequency 00000000 GHz	Settings
1 Spectrum Scale/Div 10 d	B		Ref Level -20.00 d	Bm	Mkr1 19.25 G -74.78 d	Bm 🔤 s	000000 GHz Swept Span Zero Span	
-30.0							Full Span	
-40.0						Start 10.00	Freq 00000000 GHz	
-60.0						Stop   20.00	Freq 00000000 GHz	
-70.0 -80.0 <mark>Jahnar 19</mark> -90.0 -100	ini adalaha	doutrat world to share the	petardaoscia/hyteldfishall	jeffitiopulanjanjan ja	n the second s	CF St 1.00	ep 0000000 GHz Nuto Man	
-110 Start 10.000 GI			#Video BW 3.0 M	Hz	Stop 20.000	GHz I	Offset s Scale .og	
#Res BW 1.0 M		Pec 16, 2024 5:04:10 PM	ÐA		Sweep ~18.5 ms (1001	pts) I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	<b>.in</b> I Track Zoom)	

### LTE B25\_1.4M\_Conducted Spurious(Above10 G)\_Mid\_QPSK\_1RB



Spectrum Analyzer 1 Swept SA	• +						Frequency	• • 💥
RL + Coupli Align:	ing: DC Corrections: Of	f Preamp: Off ) µW Path: Standard	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	#Avg Type: Power (RI Trig: Free Run	MS <mark>123456</mark> M WW WW W P P P P P P		Frequency 000000 GHz	Settings
1 Spectrum					19.30 GHz		0000 GHz	
Scale/Div 10 dB		Ref Level -20.00 dE	3m		74.70 dBm		ept Span o Span	
-30.0						F	ull Span	
-40.0						Start Fre 10.000	eq 000000 GHz	
-60.0						Stop Fre 20.000	eq 000000 GHz	
-70.0					1.PEAK	AU	TO TUNE	
-80.0	holor allowing of a constant	heterritikan apprication	ztalylanikinikapatista	cheeselleseterperdalles	white Kitherand Physics	CF Step 1.0000	) 00000 GHz	
-100						Aut Ma		
-110						Freq Of 0 Hz	set	
Start 10.000 GHz #Res BW 1.0 MHz		#Video BW 3.0 MH	łz		op 20.000 GHz ms (1001 pts)	X Axis S Lo Lin		
4 つ つ	Dec 16, 2024 5:06:34 PM					Signal T (Span Zo		

## LTE B25\_1.4M\_Conducted Spurious(Above10 G)\_High\_QPSK\_1RB



Spectrum Analyzer 1	+						Frequency	- v 🔆
RL + Align: Auto	Corrections: Off	#Atten: 0 dB Preamp: Off μW Path: Standard	PNO: Fast Gate: Off IF Gain: High Sig Track: Off		123456 MWWWWW PPPPPP	15.000	Frequency 000000 GHz	Settings
1 Spectrum v Scale/Div 10 dB	R	ef Level -20.00 dl	Bm		.37 GHz .75 dBm	Sv	0000 GHz rept Span ro Span	
-30.0							ull Span	
-40.0						Start Fr 10.000	eq 000000 GHz	
-60.0						Stop Fr 20.000	eq 000000 GHz	
-70.0 -80.0 (10.00, 10.00, 10.00) -90.0	aldaallaalaadaanaada.chad	etresses sekertred horage	eter <b>MA</b> AN MATERIA	, frai <sub>tea</sub> njäpettigdyskadatane	1. Eak htyddiaddau	CF Ste	00000 GHz to	
-100				01.1	20.000 011-	Freq O 0 Hz X Axis :	Scale	
Start 10.000 GHz #Res BW 1.0 MHz	2 Dec 16, 2024 5:09:02 PM	Video BW 3.0 Mi	72	Sweep ~18.5 m	20.000 GHz s (1001 pts)	Lo Lin Signal ' (Span Z	í Frack	

#### LTE B25\_3 M\_Conducted Spurious(Above10 G)\_Low\_QPSK\_1RB



Spectrum Analy. Swept SA	zer 1 ,	+						Frequency	· ·   尜
KEYSIGHT RL +→-•	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 0 dB Preamp: Off µW Path: Standard	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	#Avg Type: Po Trig: Free Run	ver (RMS 1 2 3 4 5 6 M WWWWW P P P P P P P		Frequency 000000 GHz	Settings
I Spectrum Scale/Div 10 dl	в		Ref Level -20.00 d		M	kr1 19.16 GHz -75.17 dBm	Sw	0000 GHz rept Span ro Span	
								ull Span	
50.0							Start Fr 10.000	eq 000000 GHz	
							Stop Fr 20.000	eq 000000 GHz	
70.0 80.0	taluanti mati mada	hand the state of the	adividitional production of the	natoliking distration and	h lungaditaditita	Alphone and the second se	CF Step	TO TUNE	
							Au Ma		
							Freq Of 0 Hz	fset	
Start 10.000 GH Res BW 1.0 M			#Video BW 3.0 M	Hz	Sweep	Stop 20.000 GHz ~18.5 ms (1001 pts)	X Axis S Lo Lir	g	
<b>ま</b> り (		Dec 16, 2024 5:12:30 PM	ÐA				Signal 1 (Span Ze		

#### LTE B25\_3 M\_Conducted Spurious(Above10 G)\_Mid\_QPSK\_1RB



Spectrum Analyzer 1 Swept SA	+						Frequency	· • 🛞
KEYSIGHT Input: RF RL ↔ Coupling: DC Align: Auto	Corrections: Off	#Atten: 0 dB Preamp: Off µW Path: Standard	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	#Avg Type: Power Trig: Free Run	(RMS <mark>123456</mark> M WWWWW P P P P P P P	15.000	Frequency 000000 GHz	Settings
1 Spectrum V Scale/Div 10 dB	R	ef Level -20.00 d	Bm	Mkr	1 19.00 GHz -75.76 dBm	Sv	0000 GHz vept Span ro Span	
-30.0							<sup>-</sup> ull Span	
-40.0						Children of the local division of the local	000000 GHz	
-60.0						Stop Fr 20.000	eq 1000000 GHz	
-70.0 -80.0 1	uppernation and the contract of the	kesillennalphartanne	nyalahanshin sehetalina	souther white deserve	t PEAK	CF Ste	100000 GHz to	
-110						Freq O 0 Hz	ffset	
Start 10.000 GHz #Res BW 1.0 MHz		#Video BW 3.0 M	Hz		Stop 20.000 GHz 8.5 ms (1001 pts)	X Axis : Lo Lir	g	
<b>エ</b> つ つ つ	Pec 16, 2024 5:14:53 PM	$\bullet$				Signal ' (Span Z		

### LTE B25\_3 M\_Conducted Spurious(Above10 G)\_High\_QPSK\_1RB



Spectrum Analyzer 1 Swept SA	+						Frequency	v 218
KEYSIGHT Input: RF RL ↔ Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 0 dB Preamp: Off µW Path: Standard	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	#Avg Type: Power (RM Trig: Free Run	S <mark>123456</mark> MWWWWW PPPPPP	15.00	Frequency 0000000 GHz	Settings
1 Spectrum   Scale/Div 10 dB Log		Ref Level -20.00 d	Bm		8.96 GHz 5.01 dBm	5	00000 GHz wept Span ero Span	
-30.0							Full Span	
-40.0						Start F 10.00	req 0000000 GHz	
-60.0						Stop F 20.00	req 0000000 GHz	
-70.0 -80.0 How and the office of the office	aleffictation for the former of the former o	phythellowaphraps	eraptabradiadiang	anan-quetan fillen het cifici	1 реак	CF Ste	UTO TUNE p 000000 GHz	
-100							uto an offset	
-110						0 Hz X Axis		
Start 10.000 GHz #Res BW 1.0 MHz	<b>N N N N N N N N N N</b>	#Video BW 3.0 M	Hz	Sweep ~18.5 r	p 20.000 GHz ns (1001 pts)		og In	
<b>1</b> 2 2 1	2 Dec 16, 2024 5:17:24 PM					Signal (Span 2	Track (com)	

#### LTE B25\_5 M\_Conducted Spurious(Above10 G)\_Low\_QPSK\_1RB



Spectrum Analy Swept SA	zer 1 🔻	+						Frequency	· • 👬
KEYSIGHT ≀L +→ ⊠	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 0 dB Preamp: Off µW Path: Standard	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	#Avg Type: Pow Trig: Free Run	er (RMS <mark>123456</mark> M WW WW W P P P P P P P	Record and the second	Frequency 000000 GHz	Settings
Spectrum cale/Div 10 di	в	a second second second data in second	Ref Level -20.00 d		Mł	(r1 11.19 GHz -75.27 dBm	<b>S</b> w	0000 GHz ept Span o Span	
30.0								ull Span	
0.0							Start Fr 10.000	eq 000000 GHz	
							Stop Fr 20.000	eq 000000 GHz	
70.0 30.0 ///////////////////////////////////	naliteranit	ala kaalaanaa ka madha	ite;t=haanaqabattipeia	unikanahiniktrat	pint, the poly it the poly	рак раницирородски прели	CF Step	TO TUNE	
100							Au Ma	n	
							Freq Of 0 Hz X Axis S		
tart 10.000 GH Res BW 1.0 M			#Video BW 3.0 M	Hz	Sweep -	Stop 20.000 GHz 18.5 ms (1001 pts)			
ち		2 Dec 16, 2024 5:21:05 PM					Signal 1 (Span Zo		

#### LTE B25\_5 M\_Conducted Spurious(Above10 G)\_Mid\_QPSK\_1RB



Spectrum Analyzer 1 Swept SA	• +				*	Frequency	<ul> <li>▼ Sint</li> </ul>
	RF Input Z: 50 Ω ling: DC Corrections: Off Auto Freq Ref: Int (S) NFE: Adaptive	Preamp: Off C µW Path: Standard I	Gate: Off	#Avg Type: Power (RMS 1 2 3 4 5 Trig: Free Run PPPPP	W 15.000	Frequency 000000 GHz	Settings
1 Spectrum Scale/Div 10 dB Log		Ref Level -20.00 dB	m	Mkr1 17.98 GH -75.08 dBi	m sw	0000 GHz ept Span o Span	
-30.0					F	ull Span	
-40.0					Start Fre 10.000	eq 000000 GHz	
-60.0					Stop Fre 20.000	eq 000000 GHz	
-70.0 -80.0 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	printerit Applications and	venne-ppiedroppiologi	hondur tertendiserreg	1	AK I	00000 GHz o	
-110 Start 10.000 GHz		#Video BW 3.0 MH	7	Stop 20.000 G	Freq Off 0 Hz X Axis S	cale	
	Dec 16, 2024 5:23:29 PM			Sweep ~18.5 ms (1001 pt		rack	

### LTE B25\_5 M\_Conducted Spurious(Above10 G)\_High\_QPSK\_1RB



Spectrum Analyzer 1	+					Frequen	cy y 👫
KEYSIGHT Input: RF RL + Align: Auto	Corrections: Off	#Atten: 0 dB Preamp: Off μW Path: Standard	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	#Avg Type: Power (RMS 1 2 3 2 Trig: Free Run MWWW P P P P	*** **	Center Frequency 15.000000000 GHz	Settings
1 Spectrum   Scale/Div 10 dB Log		ef Level -20.00 d		Mkr1 19.96 0 -74.75 d	GHz S	span 10.0000000 GHz Swept Span	
-30.0						Zero Span Full Span	
-50.0						Start Freq 10.000000000 GHz Stop Freq	
-60.0					PE.1	20.000000000 GHz AUTO TUNE	
-80.0 and the second se	illeraterret-entligeneilitenerter <sup>446</sup> nt	Histophylonfinadi	hikingdrandurturad	gebildesterplentintensilselration	where it is	CF Step 1.000000000 GHz	
-100						Man Treq Offset ) Hz	
Start 10.000 GHz #Res BW 1.0 MHz		¥Video BW 3.0 M	Hz	Stop 20.000 Sweep ~18.5 ms (100	GHz	Axis Scale Log Lin	
	Pec 16, 2024 5:25:57 PM					ilgnal Track Span Zoom)	

### LTE B25\_10 M\_Conducted Spurious(Above10 G)\_Low\_QPSK\_1RB



Spectrum Analyzer 1	+					\$	Frequency	▼
KEYSIGHT     Input: RF       RL     Coupling: DC       Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 0 dB Preamp: Off µW Path: Standard	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	#Avg Type: Power Trig: Free Run	(RMS <mark>123456</mark> M WWWWW P P P P P P P	15.00	Frequency 0000000 GHz	Settings
1 Spectrum ▼ Scale/Div 10 dB Log	,	Ref Level -20.00 d	Bm	Mkr	1 19.93 GHz -75.25 dBm	<b>_</b> s	00000 GHz wept Span ero Span	
							Full Span	
-40.0						Start F 10.00	req 0000000 GHz	
-50.0						Stop F 20.00	req 0000000 GHz	
-70.0		and a second second	a a se marall s	and the address	PE. 1		UTO TUNE	
-80.0	ntity the day to and the	(ada al share a	nivin trainaith an	\$5.2 Autorite Autors	ide edus dependentes		000000 GHz	
						M	uto an	
-110						Freq C 0 Hz	fiset	
Start 10.000 GHz #Res BW 1.0 MHz		#Video BW 3.0 M	Hz	Sweep ~1	Stop 20.000 GHz 8.5 ms (1001 pts)	X Axis La Li	og	
1 n C -	Pec 16, 2024 5:28:49 PM					Signal (Span Z	Track (oom)	

#### LTE B25\_10 M\_Conducted Spurious(Above10 G)\_Mid\_QPSK\_1RB



Spectrum Analyzer 1 Swept SA	+						Frequency	v ( <sup>31</sup> / <sub>21</sub> )
RL +++ Auto	Corrections: Off F	reamp: Off W Path: Standard	Gate: Off	#Avg Type: Pow Trig: Free Run	rer (RMS <mark>123456</mark> М <del>WWWWW</del> РРРРРР	15.000	Frequency 000000 GHz	Settings
1 Spectrum V Scale/Div 10 dB	Re	f Level -20.00 dB	3m	M	kr1 19.67 GHz -74.78 dBm	Sw	0000 GHz ept Span ro Span	
-30.0						F	ull Span	
-40.0						Start Fr 10.000	eq 000000 GHz	
-60.0						Stop Fr 20.000	eq 000000 GHz	
-70.0	and at a second	att ha toant is not		L du tores hot			TO TUNE	
	Andrew Angel Andrew Andrew	al a superior and the second	and standard and standard	derficite de la constante de la	didll-r=f.rll==cd.bet.		00000 GHz	
-100						Au Ma	n	
-110						Freq Of 0 Hz		
Start 10.000 GHz #Res BW 1.0 MHz	#1	/ideo BW 3.0 MH	łz	Sweep -	Stop 20.000 GHz ~18.5 ms (1001 pts)	X Axis S Lo Lir	g	
<b>まって</b>	Pec 16, 2024 5:31:12 PM					Signal 1 (Span Zi		

### LTE B25\_10 M\_Conducted Spurious(Above10 G)\_High\_QPSK\_1RB



Spectrum Analyzer 1 Swept SA	+					\$	Frequency	· · 🔆
KEYSIGHT Input: RF RL +++ Coupling: DC Align: Auto	Corrections: Off Pre	amp: Off Path: Standard	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	#Avg Type: Power (RMS Trig: Free Run	5 <mark>123456</mark> М₩₩₩₩₩ РРРРРР	NAME AND ADDRESS OF T	Frequency 000000 GHz	Settings
1 Spectrum v Scale/Div 10 dB	And States of the	.evel -20.00 dB			7.92 GHz 5.45 dBm	Sv	0000 GHz /ept Span ro Span	
-30.0							Full Span	
-40.0						Start Fr 10.000	eq 000000 GHz	
-60.0						Stop Fr 20.000	eq 000000 GHz	
-70.0 -80.0 40000000000000000000000000000000000	mittennentitettettet	han sa han an a	wytholfethe horosophy	terifell understerieren entsetwelg	реак Жарайнарария С	CF Ste	00000 GHz to	
-110						Freq Of 0 Hz		
Start 10.000 GHz #Res BW 1.0 MHz		deo BW 3.0 MH	Iz	Sto Sweep ~18.5 r	p 20.000 GHz ns (1001 pts)	X Axis : Lo Lir	g	
<b>ニット</b>	Pec 16, 2024 5:33:40 PM	4				Signal * (Span Zi		

### LTE B25\_15 M\_Conducted Spurious(Above10 G)\_Low\_QPSK\_1RB



Spectrum Analyzer 1	+			Frequency	- * 😤
KEYSIGHT Input: RF RL ++ Coupling: DC Align: Auto	Input Z: 50 Ω #Atten: 0 dB Corrections: Off Preamp: Off Freq Ref: Int (S) μW Path: Sta NFE: Adaptive	PNO: Fast Gate: Off ndard IF Gain: High Sig Track: Off	#Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run PPPPPP	Center Frequency 15.000000000 GHz	Settings
1 Spectrum v Scale/Div 10 dB	Ref Level -20	.00 dBm	Mkr1 19.79 GHz -75.78 dBm	Span 10.0000000 GHz Swept Span Zero Span	
-30.0				Full Span Start Freq 10.00000000 GHz	
-50.0				10.000000000 GHz Stop Freq 20.000000000 GHz	
-70.0 -80.0 the product of the state of the	unabai-ining huppinistri totial hummerk	ufuqiadarbiteringatetta	red . wy Himisticalitan falan fal	AUTO TUNE CF Step 1.000000000 GHz Auto	
-100				Man Freq Offset 0 Hz	
Start 10.000 GHz #Res BW 1.0 MHz	#Video BW 3	3.0 MHz	Stop 20.000 GHz Sweep ~18.5 ms (1001 pts)	X Axis Scale Log Lin Signal Track	

#### LTE B25\_15 M\_Conducted Spurious(Above10 G)\_Mid\_QPSK\_1RB



Spectrum Analyzer 1	+					\$	Frequency	
RL +++ Auto	Corrections: Off	#Atten: 0 dB Preamp: Off JW Path: Standard	PNO: Fast Gate: Off IF Gain: High Sig Track: Off		23456 WWWWW PPPPP		Frequency 000000 GHz	Settings
1 Spectrum v Scałe/Div 10 dB		ef Level -20.00 di		Mkr1 10.		Sv	00000 GHz vept Span ro Span	
-30.0							Full Span	
-40.0						Start Fr 10.000	eq 1000000 GHz	
-60.0						Stop Fr 20.000	eq 0000000 GHz	
-90.0	ananana ana ana ana ana ana ana ana ana	ofstheine alfantlinneli	et-holderreichen	inthering Party Software	реак Ангумцияни	CF Ste	100000 GHz to	
-100 -110 Start 10.000 GHz		Video BW 3.0 MI		Stop 2	0.000 GHz	Freq O 0 Hz X Axis	Scale	
	7 Dec 16, 2024		nz	Stop 2 Sweep ~18.5 ms		Lin Lin Signal ' (Span Z	Track	

## LTE B25\_15 M\_Conducted Spurious(Above10 G)\_High\_QPSK\_1RB



Spectrum Analyzer 1 Swept SA	<b>+</b>			Frequency	• • • • • • • • • • • • • • • • • • •
KEYSIGHT RL ↔ Align: Auto	Input Z: 50 Ω #Atten: 0 dB Corrections: Off Preamp: Off Freq Ref: Int (S) μW Path: Standard NFE: Adaptive	Gate: Off Ing: F	Туре: Power (RMS 1 2 3 4 5 6 Free Run Р Р Р Р Р Р Р	Center Frequency 15.000000000 GHz Span	Settings
1 Spectrum   Scale/Div 10 dB Log	Ref Level -20.00 c	dBm	Mkr1 19.48 GHz -73.97 dBm	Span 10.0000000 GHz Swept Span Zero Span	
-30.0				Full Span	
-40.0				Start Freq 10.000000000 GHz	
-60.0				Stop Freq 20.000000000 GHz	
-70.0 -80.0 Hadrad High Proposition	crussman approximate and the second	engen met on her many her of the	\$1_ace fissesfingenegthetersfinitestersfinitestersfingenegthetersfinitestersfinitestersfinitestersfinitestersfinitester	AUTO TUNE CF Step 1.00000000 GHz Auto	
-100				Man Freq Offset 0 Hz	
Start 10.000 GHz #Res BW 1.0 MHz	#Video BW 3.0 N	ЛНz	Stop 20.000 GHz Sweep ~18.5 ms (1001 pts)	X Axis Scale Log Lin	
5	Pec 16, 2024 5:41:22 PM			Signal Track (Span Zoom)	

# LTE B25\_20 M\_Conducted Spurious(Above10 G)\_Low\_QPSK\_1RB



Spectrum Analy Swept SA	zer 1 💡	F					₿.	Frequency	- <del> </del> *
KEYSIGHT	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 0 dB Preamp: Off µW Path: Standard	PNO: Fast Gate: Off IF Gain: High Sig Track: Off	#Avg Type: Powe Trig: Free Run	r (RMS 1 2 3 4 5 6 M WWWWW P P P P P P P	15.0000	requency 000000 GHz	Settings
1 Spectrum Scale/Div 10 d	B		Ref Level -20.00 d	Bm	Mk	r1 18.67 GHz -75.46 dBm	Swe	0000 GHz ept Span o Span	
-30.0							Fi	ull Span	
-40.0							Start Fre 10.0000	iq 000000 GHz	
-60.0							Stop Fre 20.0000	9 000000 GHz	
-70.0 -80.0	hylywarth, anadala	http://www.treatlineap.org	ntharrowith amount	heindendergelichte	an where the second	1 PEAK	CF Step		
-90.0		the sector of th					1.00000 Auto Mar		
-110							Freq Off 0 Hz	set	
Start 10.000 GI #Res BW 1.0 N			#Video BW 3.0 M	Hz	Sweep ~	Stop 20.000 GHz 18.5 ms (1001 pts)	X Axis S Log Lin		
ר <b>ד</b>	r 🗖 ?	Dec 16, 2024 5:44:11 PM					Signal Ti (Span Zo		

#### LTE B25\_20 M\_Conducted Spurious(Above10 G)\_Mid\_QPSK\_1RB



Spectrum Analyzer 1	ŀ					\$	Frequency	· · 🔆
KEYSIGHT Input: RF RL ↔ Coupling: DC Align: Auto	Corrections: Off	#Atten: 0 dB Preamp: Off μW Path: Standard	PNO: Fast Gate: Off IF Gain: High Sig Track: Off		1 2 3 4 5 6 MWWWWW PPPPPP	Record and Decord	r Frequency 0000000 GHz	Settings
1 Spectrum v Scale/Div 10 dB	I gen seeks a strategy best hoat	ef Level -20.00 dl			.88 GHz .54 dBm	= s	00000 GHz wept Span	
-30.0							ero Span Full Span	
-40.0						Start F 10.00 Stop F	0000000 GHz	
-60.0					PE.		0000000 GHz	
-80.0 47744141/147144744444444666	architer and proper and the	withinity to only the	n-tallistik pertanakanaka	pingth the provident the stand	paternanits	-	ep 000000 GHz uto	
-100						M Freq C 0 Hz	lan Offset	
Start 10.000 GHz #Res BW 1.0 MHz	*	∜Video BW 3.0 Mi	Hz	Stop Sweep ~18.5 m	20.000 GHz s (1001 pts)	X Axis Li	og	
= って : ?	Dec 16, 2024 5:46:33 PM						Track Zoom)	

### LTE B25\_20 M\_Conducted Spurious(Above10 G)\_High\_QPSK\_1RB



KEYSIGHT RL +++ M	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 10 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Trig: Free Run	wer (RMS <mark>123456</mark> A <del>WW WW W</del> A A A A A A A	Center Frequer	
Spectrum cale/Div 10 d	B		Ref LvI Offset 26.9 Ref Level 26.90 dB		Mkr1	1.849 996 GHz -33.346 dBm	4.00000000	an
6.9				m			Full Spa	n
3.90							Start Freq 1.848000000	GHz
13.1				\		DL1 -13.00 dBm	Stop Freq 1.852000000	GHz
23.1			1	- X			AUTO TU	NE
33.1			a superior and	sweet of	manerapana		CF Step 400.000 kHz	
53.1		and all all all all all all all all all al					Auto Man	
	Maria and and a second second	and the second sec				RMS	Freq Offset 0 Hz	
enter 1.85000 Res BW 15 kl			#Video BW 47 kH	lz	#Swe	Span 4.000 MHz ep ~2.01 s (1001 pts)		
15		Dec 16, 2024 5:00:16 PM					Signal Track (Span Zoom)	

#### LTE B25\_1.4M\_Band Edge\_Low\_QPSK\_1RB



KEYSIGHT ≀L +→- ™	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 10 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Trig: Free Run	wer (RMS <mark>123456</mark> A <del>WWWWW</del> AAAAAA	Center Fre 1.850000 Span		Settings
Spectrum cale/Div 10 dl	B		Ref LvI Offset 26.9 Ref Level 26.90 dB		Mkr1	1.850 000 GHz -36.822 dBm	4.000000	t Span	
6.9							Full	Span	
.90				and the production of the second second	summery		Start Freq 1.848000	000 GHz	
3.1						DL1 -13.00 dBm	Stop Freq 1.852000	000 GHz	
3.1							AUTO	TUNE	
3.1		www.ww	norman market			RMS	CF Step 400.000 k	Hz	
3.1	- marine and a second	nount					Auto Man		
3.1							Freq Offse 0 Hz	t I	
enter 1.85000 Res BW 15 kH			#Video BW 47 kH	Iz	#Swe	Span 4.000 MHz ep ~2.01 s (1001 pts)	X Axis Sca Log Lin	le	
15		Dec 16, 2024 4:59:37 PM	$\square \triangle$				Signal Trai		

#### LTE B25\_1.4M\_Band Edge\_Low\_QPSK\_FullRB



Spectrum Anal Channel Powe	yzer 1	+					*	Frequency	$\left( -\frac{s^{1}}{2}\right) = \frac{s^{1}}{2}$
	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	Atten: 10 dB Preamp: Off μW Path: Standard #PNO: Fast	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 1.84850000 Avg[Hold: 5/5 Radio Std: None	0 GHz	1.8485	Frequency 00000 GHz	Settings
1 Graph	•		Ref LvI Offset 26.9				Span 4.0000	MHz	
Scale/Div 10.0	) dB		Ref Value 30.00 dB	m			CF Step 400.00		
10.0						RMS AVG	Au Ma		
-10.0							Freq Of 0 Hz	fset	
-30.0				متعربيني					
-50.0	*****								
Center 1.8485			Video BW 390.00 k	Hz*		Span 4 MHz			
Res BW 39.00 2 Metrics	U KHZ				#Sweep 2.00 :	s (1001 pts)			
Total Chann	nel Power	-28.10 dBm / 1.0	0 MHz						
Total Power	Spectral Densi	ty -88.10 df	3m/Hz						
15	C []	Pec 16, 2024 4:59:55 PM	$\square$						

### LTE B25\_1.4M\_Extended Band Edge\_Low\_QPSK\_FullRB



KEYSIGHT     Input: RF       RL     ++     Coupling       Align: Au	DC Corrections: Of		#Awg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run A & W W W W A A A A A A	Center Frequency 1.915000000 GHz	Settings
Spectrum v cale/Div 10 dB		Ref LvI Offset 26.90 dB Ref Level 26.90 dBm	Mkr1 1.915 004 GHz -36.239 dBm	4.0000000000000	
6.9		~		Full Span	
.90				Start Freq 1.913000000 GHz	
3.1			DL1 -13.00 dBm	Stop Freq 1.917000000 GHz	
3.1	A A A A A A A A A A A A A A A A A A A	1		AUTO TUNE CF Step 400.000 kHz	
3.1	and any and a	and the second second	~~	Auto Man	
3.1			man man and a second	Freq Offset 0 Hz	
enter 1.915000 GHz Res BW 15 kHz		#Video BW 47 kHz	Span 4.000 MHz #Sweep ~2.01 s (1001 pts)		
150	Dec 16, 2024 5:06:07 PM			Signal Track (Span Zoom)	

### LTE B25\_1.4M\_Band Edge\_High\_QPSK\_1RB



	ut: RF upling: DC m: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 10 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power Trig: Free Run	(RMS 1 2 3 4 5 6 A WW WW W A A A A A A		requency 0000 GHz	Settings
Spectrum cale/Div 10 dB	•		Ref LvI Offset 26.9 Ref Level 26.90 dB			.915 024 GHz -36.236 dBm	4.00000	000 MHz pt Span Span	
.90		a province of the second s	manne				Start Fre	ll Span 9 0000 GHz	
3.1						DL1 -13.00 dBm		0000 GHz	
3.1	worken		1	and the second		RMS.	CF Step 400.000 Auto	)	
3.1							Man Freq Offs 0 Hz		
enter 1.915000 G Res BW 15 kHz	iHz		#Video BW 47 kł	lz	#Sweep	Span 4.000 MHz ~2.01 s (1001 pts)	X Axis So Log Lin	ale	
ר <del> </del>		Dec 16, 2024 5:05:27 PM					Signal Tr (Span Zoo		

### LTE B25\_1.4M\_Band Edge\_High\_QPSK\_FullRB



Spectrum Analy Channel Power	zer 1 🗸	+					<b>‡</b>	Frequency 🔹 📑	212
KEYSIGHT RL +→-•	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	Atten: 10 dB Preamp: Off µW Path: Standard #PNO: Fast	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 1.916 Avg Hold: 5/5 Radio Std: None	500000 GHz	Center Frequ 1.916500000 Span	Setunds	
1 Graph	•		Ref LvI Offset 26.90				4.0000 MHz		
Scale/Div 10.0	dB		Ref Value 30.00 dB	m			CF Step		
20.0							400.000 kHz		
10.0	X						Auto Man		
-10.0							Freq Offset		
-20.0							0 Hz		
-30.0									
-40.0			14 <sup>1</sup> ~1 <sub>2</sub> 2 <sup>10</sup> <sup>10</sup> ~1 <sub>10</sub> 2 <sup>10</sup> 1 <sup>10</sup>			RMS AVG			
-50.0									
Center 1.91650 Res BW 39.000			Video BW 390.00 k	Hz*	#Sweep	Span 4 MHz 2.00 s (1001 pts)			
2 Metrics	•				"encop	2.000 0 (1001 p.0)			
Total Channe	el Power	-27.67 dBm / 1.0	0 MHz						
Total Power	Spectral Densi	ty -87.67 di	3m/Hz						
15		Dec 16, 2024	$\square$		P				
		5:05:45 PM			<u>ا انتقار ا</u>				

### LTE B25\_1.4M\_Extended Band Edge\_High\_QPSK\_FullRB





Spectrum Analyzer 1	+				4	Frequency	, <b>,</b>
EYSIGHT Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 10 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS 1 2 3 4 5 Trig: Free Run A WWWW A A A A A	1.8500	Frequency 00000 GHz	Settings
Spectrum v cale/Div 10 dB		Ref LvI Offset 26.90 Ref Level 26.90 dB	) dB	Mkr1 1.850 000 GI -20.139 dB	m Sw	0000 MHz /ept Span ro Span	
6.9					F	ull Span	
.90					Start Fr 1.8480	eq 00000 GHz	
3.1		1-		DL1 -13.00 d	Stop Fr 1.8520	eq 00000 GHz	
3.1			Thus			JTO TUNE	
3.1		Marchand		A A	CF Step 400.00	all second as	
3.1	and the second second			Recorder Records	MS Aur Ma		
3.1					Freq Of 0 Hz	fset	
enter 1.850000 GHz Res BW 30 kHz		#Video BW 91 k⊦	lz	Span 4.000 M #Sweep ~2.01 s (1001 p		g	
- n C -	2 Dec 16, 2024 5:08:36 PM	$\odot$			Signal 1 (Span Zo		

### LTE B25\_3 M\_Band Edge\_Low\_QPSK\_1RB



Swept SA       KEYSIGHT       Input: RF       Coupling: DC       Align: Auto	Corrections: Off F Freq Ref: Int (S)	Atten: 10 dB PNO: Best Wide Preamp: Off Gate: Off IW Path: Standard IF Gain: Low	#Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run A WW WW A A A A A A	Frequency Center Frequency 1.85000000 GHz	Settings
Spectrum     Cale/Div 10 dB     Og		Sig Track: Off f LvI Offset 26.90 dB f Level 26.90 dBm	Mkr1 1.850 000 GHz -27.943 dBm	Span 4.00000000 MHz Swept Span Zero Span	
16.9				Full Span	
3.90			RMS	Start Freq 1.848000000 GHz	
3.1			DL1-13.00 dBm	Stop Freq 1.852000000 GHz	
23.1		1		AUTO TUNE	
3.1				CF Step 400.000 kHz	
53.1				Auto Man	
53.1				Freq Offset 0 Hz	
enter 1.850000 GHz Res BW 30 kHz	#	Video BW 91 kHz	Span 4.000 MHz #Sweep ~2.01 s (1001 pts)	X Axis Scale Log Lin	
- n C	2 Dec 16, 2024 5:07:57 PM			Signal Track (Span Zoom)	

#### LTE B25\_3 M\_Band Edge\_Low\_QPSK\_FullRB



Spectrum Analy Channel Power	zer 1	+						\$	Frequency	- 😤
KEYSIGHT RL +++	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	Atten: 10 dB Preamp: Off μW Path: Standard #PNO: Fast	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: Avg Hold: 5/5 Radio Std: No		GHz		requency 00000 GHz	Settings
1 Graph	*		Ref LvI Offset 26.9					4.0000	MHz	
Scale/Div 10.0	dB		Ref Value 30.00 dB	m				CF Step		
20.0								400.000	) kHz	
10.0							RMS AVG	Aut Mar		
-10.0							<u> </u>	Freq Off	set	
-20.0						/		0 Hz		
-30.0						1				
-40.0			and the second second second second							
-50.0										
Center 1.84850 Res BW 39.000			Video BW 390.00 k	(HZ <sup>^</sup>	#S\		Span 4 MHz (1001 pts)			
2 Metrics	•						, ,			
Total Channe	el Power	-29.59 dBm / 1.0	0 MHz							
Total Power	Spectral Density	y -89.59 d	Bm/Hz							
15		Dec 16, 2024	$\odot$		.:					
		5:08:14 PM								

### LTE B25\_3 M\_Extended Band Edge\_Low\_QPSK\_FullRB



Spectrum Analy Swept SA	/zer 1 🔻	+						Frequency	v • ÷
KEYSIGHT RL +→+ ™	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 10 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off I IF Gain: Low Sig Track: Off	#Avg Type: P Trig: Free Ru	ower (RMS <mark>123456</mark> n A <del>WW WW W</del> A A A A A A	1.91500	requency 10000 GHz	Settings
Spectrum cale/Div 10 d	, IB		Ref LvI Offset 26.9 Ref Level 26.90 dE		Mkr1	1.915 000 GHz -20.519 dBm	Swe	000 MHz ept Span o Span	
16.9			$\cap$				FL	ıll Span	
3.90							Start Fre 1.91300	9 10000 GHz	
13.1						DL1 -13.00 dBm	Stop Fre 1.91700	9 10000 GHz	
23.1							AUT	TO TUNE	
3.1	Λ		<u> </u>	and the second sec			CF Step 400.000	ı kHz	
43.1 53.1				and the second s	mm		Auto Man		
53.1						RMS RMS	Freq Offs 0 Hz	set	
enter 1.9150 Res BW 30 k			#Video BW 91 k	Hz	#Sw	Span 4.000 MHz eep ~2.01 s (1001 pts)			
15		Dec 16, 2024 5:14:27 PM	$\Box \triangle$				Signal Tr (Span Zoo		

#### LTE B25\_3 M\_Band Edge\_High\_QPSK\_1RB



Swept SA       KEYSIGHT       Input: RF       RL       Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 10 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off		3 4 5 6 ///////////////////////////////////	1.9150	Frequency 00000 GHz	Settings
Spectrum v cale/Div 10 dB	a and decid in second dec. And	Ref Lvi Offset 26.90 Ref Level 26.90 dB	) dB	Mkr1 1.915 000 -28.209		Sw	0000 MHz ept Span o Span	
6.9						F	ull Span	
.90						Start Fre 1.9130	eq 00000 GHz	
3.1				DL1 -1	3.00 dBm	Stop Fre 1.9170	eq 00000 GHz	
3.1		1-				AU	TO TUNE	
3.1					RMS	CF Step 400.000		
3.1						Aut Ma		
3.1						Freq Off 0 Hz	'set	
enter 1.915000 GHz Res BW 30 kHz		#Video BW 91 kH	lz	Span 4.0 #Sweep ~2.01 s (10		X Axis S Loç Lin	1	
1761	Dec 16, 2024 5:13:47 PM				X	Signal T (Span Zo	rack	

#### LTE B25\_3 M\_Band Edge\_High\_QPSK\_FullRB



Spectrum Analy Channel Power	/zer 1	+					\$	Frequency	T (1)
KEYSIGHT RL +++	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	Atten: 10 dB Preamp: Off µW Path: Standard #PNO: Fast	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: ' Avg Hold: 5/5 Radio Std: No			requency 00000 GHz	Settings
1 Graph	*		Ref LvI Offset 26.90				4.0000	MHz	
Scale/Div 10.0	aB		Ref Value 30.00 dB	m			CF Step 400.000	) kHz	
10.0							Auto Mar		
-10.0							Freq Off 0 Hz	set	
-30.0									
-50.0						RMS AVG			
Center 1.91650 Res BW 39.000			Video BW 390.00 k	Hz*		Span 4 MHz			
2 Metrics	J KHZ V				#51	veep 2.00 s (1001 pts)			
Total Chann	el Power	-24.45 dBm / 1.0	0 MHz						
Total Power	Spectral Densi	ty -84.45 di	3m/Hz						
<b>ま</b> り	C -	2 Dec 16, 2024 5:14:04 PM							

### LTE B25\_3 M\_Extended Band Edge\_High\_QPSK\_FullRB





Spectrum Analyze Swept SA	r1 📲						0	Frequenc	y <b>v</b> 🖓
	put: RF pupling: DC ign: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 10 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off		123456 A WW WW W A A A A A A	1.8500	requency 00000 GHz	Settings
Spectrum cale/Div 10 dB	•		Ref Lvi Offset 26.90 Ref Level 26.90 dB	) dB	Mkr1 1.850		Sw	0000 MHz ept Span o Span	
16.9				$\wedge$			F	ull Span	
3.90							Start Fre 1.8480	eq 00000 GHz	
3.1			/			DL1 -13.00 dBm	Stop Fre 1.8520	eq 00000 GHz	
23.1							AU	TO TUNE	
3.1							CF Step 400.00		
3.1		- And a state of the state of t				RMS	Aut Ma		
3.1	and a free down a server a						Freq Of 0 Hz	set	
enter 1.850000 Res BW 51 kHz	GHz		#Video BW 160 k	Hz	Spa #Sweep ~2.01	n 4.000 MHz s (1001 pts)		1	
ר <del> </del>	2	Dec 16, 2024 5:16:58 PM	$\mathbb{D}$				Signal T (Span Zo	rack	

### LTE B25\_5 M\_Band Edge\_Low\_QPSK\_1RB



KEYSIGHT     Input: RF       RL     +→     Coupling: DC       Align: Auto     Align: Auto	H Input Ζ: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 10 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS 1 2 3 4 Trig: Free Run A WW WA	YW 1.850	Frequency 000000 GHz	Settings
Spectrum v cale/Div 10 dB		Ref LvI Offset 26.90 Ref Level 26.90 dB	) dB	Mkr1 1.850 000 G -31.346 dE	HZ 4.000	00000 MHz wept Span ero Span	
6.9						Full Span	
			<hr/>	F	MS Start F 1.848	req 000000 GHz	
3.1				DL1-13.00	Stop F 1.852	req 000000 GHz	
3.1		1			A	UTO TUNE	
3.1					CF Ste 400.0	ep 00 kHz	
3.1						uto an	
3.1					Freq C 0 Hz	offset	
enter 1.850000 GHz Res BW 51 kHz		#Video BW 160 k	Hz	Span 4.000 M #Sweep ~2.01 s (1001		og	
- n c -	2 Dec 16, 2024 5:16:19 PM	$\square$			Signal	Track (nom)	

### LTE B25\_5 M\_Band Edge\_Low\_QPSK\_FullRB



Spectrum Analy Channel Power	zer 1	+					\$	Frequency	
KEYSIGHT RL ↔	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	Atten: 10 dB Preamp: Off μW Path: Standar #PNO: Fast	Trig: Free Run Gate: Off d #IF Gain: Low	Center Freq: 1.8485000 Avg Hold: 5/5 Radio Std: None	00 GHz	1.8485	Frequency 00000 GHz	Settings
1 Graph	*		Ref LvI Offset 26.	90 dB			Span 4.0000	MHz	
Scale/Div 10.0	dB		Ref Value 30.00 d	Bm			CF Step		
20.0							400.00		
10.0							Au		
0.00						RMS AVG	Ma	n	
-10.0							Freq Of	fset	
-20.0						A	0 Hz		
-30.0									
-40.0									
-50.0									
-60.0									
Center 1.84850 Res BW 39.000			Video BW 390.00	kHz*	# <b>C</b> woon 2.00	Span 4 MHz s (1001 pts)			
2 Metrics					#Sweep 2.00	) S (1001 ptS)			
2 meuros									
Total Channe	al Power	-26.34 dBm / 1.0							
Total Power	Spectral Densit	-86.34 d	Iomina						
		Dec 16, 2024							
		5:16:37 PM	$\bigcirc \triangle$						

#### LTE B25\_5 M\_Extended Band Edge\_Low\_QPSK\_FullRB



Spectrum Analyzer 1 Swept SA	• +	🛟 Frequency 🕇 🔆
RL ++ Align: Auto	Input Z: 50 Ω #Atten: 10 dB PNO: Be Corrections: Off Preamp: Off Gate: 01 Freq Ref: Int (S) μ/W Path: Standard IF Gain: NFE: Adaptive	Low Trig: Free Run Awwww 1.915000000 GHz Settings
1 Spectrum v Scale/Div 10 dB	Ref Lvi Offset 26.90 dB Ref Level 26.90 dBm	Mkr1 1.915 000 GHz -23.787 dBm Zero Span
16.9		Full Span
6.90		Start Freq 1.913000000 GHz
13.1		OL1-13.00 dBm 1.917000000 GHz
23.1		AUTO TUNE
33.1		CF Step 400.000 kHz
-43.1		Auto
63.1		BMS Freq Offset 0 Hz
Center 1.915000 GHz Res BW 51 kHz	#Video BW 160 kHz	Span 4.000 MHz #Sweep ~2.01 s (1001 pts)
1 n C	Dec 16, 2024 5:23:02 PM	III 💽 🖿 🔀 Signal Track (Spair Zoom)

### LTE B25\_5 M\_Band Edge\_High\_QPSK\_1RB



Spectrum Analyzer 1	+					Frequency	1 - 1 🕄
KEYSIGHT     Input: RF       RL     Coupling: DC       Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 10 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS 1 2 3 4 5 Trig: Free Run A WWWW A A A A A	1.9150 A	Frequency 00000 GHz	Settings
Spectrum v cale/Div 10 dB		Ref LvI Offset 26.9 Ref Level 26.90 dB		Mkr1 1.915 000 GI -31.726 dB	m sv	0000 MHz /ept Span ro Span	
6.9						ull Span	
.90	**************************************				Start Fr 1.9130	eq 00000 GHz	
3.1				DL1 -13.00 d	Stop Fr 1.9170	eq 00000 GHz	
3.1		1			AL	JTO TUNE	
3.1				R	MS 400.00		
53.1					Au		
53.1 					Freq O 0 Hz	fset	
enter 1.915000 GHz Res BW 51 kHz		#Video BW 160 k	Hz	Span 4.000 M #Sweep ~2.01 s (1001 p		g	
<b>1</b> 7 7 1 1	Dec 16, 2024 5:22:22 PM	$\square$			Signal '		

### LTE B25\_5 M\_Band Edge\_High\_QPSK\_FullRB



Spectrum Analy Channel Power	zer 1 🔻	+						Frequency	- ※
KEYSIGHT RL +++	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	Atten: 10 dB Preamp: Off μW Path: Standard #PNO: Fast	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 1.9165 Avg Hold: 5/5 Radio Std: None	500000 GHz		requency 00000 GHz	Settings
1 Graph			Ref LvI Offset 26.90				4.0000	MHz	
Scale/Div 10.0	dB		Ref Value 30.00 dB	m			CF Step 400.000	) kHz	
10.0							Aut Mar		
-10.0 -20.0							Freq Off 0 Hz	set	
-30.0		·····			· · · · · · · · · · · · · · · · · · ·	RMS AVG			
-60.0 Center 1.91650			Video BW 390.00 k	Hz*		Span 4 MHz			
Res BW 39.000 2 Metrics	kHz T				#Sweep	2.00 s (1001 pts)			
Total Channe	el Power	-28.32 dBm / 1.0	0 MHz						
Total Power	Spectral Densi	ty -88.32 d	Bm/Hz						
<u>ור</u>		2 Dec 16, 2024 5:22:40 PM	$\odot$						

# LTE B25\_5 M\_Extended Band Edge\_High\_QPSK\_FullRB



KEYSIGHT Input: RF R L +++ Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 10 dB PNO: Best Wide Preamp: Off Gate: Off μW Path: Standard IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run A WW WW A A A A A A	Center Frequency 1.850000000 GHz Span	Settings
Spectrum v cale/Div 10 dB		ef LvI Offset 26.90 dB ef Level 26.90 dBm	Mkr1 1.849 996 GHz -30.678 dBm	4.00000000 MHz	
6.9			\	Full Span	
3.10				Start Freq 1.848000000 GHz	
13.1			DL1 -13.00 dBm	Stop Freq 1.852000000 GHz	
33.1		<b>9</b> <sup>1</sup>		AUTO TUNE	
13.1			RMS	400.000 kHz Auto Man	
3.1 3.1				Freq Offset 0 Hz	
enter 1.850000 GHz Res BW 100 kHz		#Video BW 300 kHz	Span 4.000 MHz #Sweep ~2.01 s (1001 pts)		
1 n C 🗌	? Dec 16, 2024 5:25:31 PM			Signal Track (Span Zoom)	

### LTE B25\_10 M\_Band Edge\_Low\_QPSK\_1RB



Spectrum Analy Swept SA	/zer 1	+					0	Frequency	y 🔻	쓿
KEYSIGHT <sup>RL</sup> →→→	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 10 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power Trig: Free Run	(RMS <mark>123456</mark> AWWWWW AAAAAA	Center Fi 1.85000	requency 0000 GHz	Settings	s
1 Spectrum Scale/Div 10 d	т В	The second s	Ref LvI Offset 26.9 Ref Level 26.90 dB	0 dB		849 996 GHz -33.407 dBm	Swe	000 MHz pt Span Span		
16.9							Fu	ll Span		
6.90						RMS	Start Free 1.84800	9 0000 GHz		
13.1						DL1 -13.00 dBm	Stop Free 1.85200	1 0000 GHz		
23.1			1.				AUT	O TUNE		
33.1							CF Step 400.000	kHz		
43.1 53.1							Auto Man			
63.1							Freq Offs 0 Hz	et		
Center 1.85000			#Video BW 300 k	Hz	#Sweep ~	Span 4.000 MHz ∽2.01 s (1001 pts)	X Axis So Log Lin	ale		
<b>い</b>		Dec 16, 2024 5:24:52 PM	$\Box$				Signal Tr (Span Zoo			

#### LTE B25\_10 M\_Band Edge\_Low\_QPSK\_FullRB



Spectru Channe	m Analy. I Power	zer 1 💡	+						Frequency	(
KEYS RL		Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	Atten: 10 dB Preamp: Off μW Path: Standar #PNO: Fast	Trig: Free Run Gate: Off rd #IF Gain: Low	Center Freq: 1.848500 Avg Hold: 5/5 Radio Std: None	000 GHz	1.8485	Frequency 00000 GHz	Settings
1 Graph		•		Ref LvI Offset 26.				Span 4.0000	MHz	
Scale/D	Div 10.0	dB		Ref Value 30.00 d	Bm			CF Step		
20.0								400.00		
10.0								Au Ma		
-10.0							RMS AVG	Freq Of	fset	
-20.0								0 Hz		
-30.0							and the second s			
-40.0				*******						
-60.0										
	1.84850			Video BW 390.00	kHz*		Span 4 MHz			
Statistics and states	V 39.000	kHz				#Sweep 2.0	0 s (1001 pts)			
2 Metric:	s	, v								
Total	Channe	al Power	-28.25 dBm / 1.0	0 MHz						
Total	Power	Spectral Densi	ity -88.25 d	Bm/Hz						
(	3 18									
	う		2 Dec 16, 2024 5:25:10 PM	$\square$						

# LTE B25\_10 M\_Extended Band Edge\_Low\_QPSK\_FullRB



Spectrum Analyzer 1 Swept SA KEYSIGHT Input: RF	Input Z: 50 Ω #Atten: 10 dB	PNO: Best Wide	#Avg Type_Power (RMS 1 2 3 4 9	Frequency	
L +++ Coupling: DC Align: Auto	Corrections: Off Freq Ref: Int (S) NFE: Adaptive	Gate: Off d IF Gain: Low Sig Track: Off	Trig: Free Run A WW WW	1.915000000 GHz	Settings
Spectrum v cale/Div 10 dB	Ref Lvi Offset 26. Ref Level 26.90 di		Mkr1 1.915 000 G -30.846 dE		
6.9				Full Span	
3.10				Start Freq 1.913000000 GHz	
13.1			DL1-13.00 d	Bittop Freq 1.917000000 GHz	
3.1				AUTO TUNE	
03.1				CF Step 400.000 kHz	
53.1				Auto Man	
53.1			and a second	Freq Offset 0 Hz	
enter 1.915000 GHz Res BW 100 kHz	#Video BW 300	kHz	Span 4.000 M #Sweep ~2.01 s (1001 p		
- n c -	Pec 16, 2024 5:30:46 PM			Signal Track	1

### LTE B25\_10 M\_Band Edge\_High\_QPSK\_1RB



Spectrum Analy Swept SA		+ Input Ζ: 50 Ω	#Atten: 10 dB	PNO: Best Wide			\$	Frequency	• •
KEYSIGHT	Coupling: DC Align: Auto	Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 10 dB Preamp: Off µW Path: Standard	Gate: Off	#Avg Type: Po Trig: Free Run	wer (RMS <mark>1</mark> 23456 A <del>WW WW W</del> A A A A A A	Center Fr 1.915000 Span	equency 0000 GHz	Settings
Spectrum Scale/Div 10 d	B		Ref LvI Offset 26.9 Ref Level 26.90 dE		Mkr1	1.915 004 GHz -34.347 dBm	4.000000	000 MHz pt Span Span	
16.9							Fu	ll Span	
6.90 3.10							Start Free 1.91300	1 0000 GHz	
13.1						DL1 -13.00 dBm	Stop Fred 1.91700	1 0000 GHz	
23.1							AUT	O TUNE	
33.1						RMS	CF Step 400.000	kHz	
43.1 53.1							Auto Man		
63.1							Freq Offs 0 Hz	et	
enter 1.91500 Res BW 100 k			#Video BW 300 k	(Hz	#Swe	Span 4.000 MHz ep ~2.01 s (1001 pts)		ale	
<b>ま</b> ち (		Dec 16, 2024 5:30:05 PM					Signal Tra		

### LTE B25\_10 M\_Band Edge\_High\_QPSK\_FullRB



Spectrum Analy Channel Power	/zer 1	+						Frequency	<u></u>
KEYSIGHT	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	Atten: 10 dB Preamp: Off μW Path: Standard #PNO: Fast	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 1.91 Avg Hold: 5/5 Radio Std: None	6500000 GHz	print and a second seco	Frequency 00000 GHz	Settings
1 Graph	•		Ref LvI Offset 26.90	) dB			4.0000	MHz	
Scale/Div 10.0	dB		Ref Value 30.00 dB	m			CF Step		
20.0							400.000		
10.0							Aut Mar		
-10.0							Freq Off	set	
-20.0							0 Hz		
-30.0									
-40.0						RMS AVG			
-50.0									
-60.0									
Center 1.91650			Video BW 390.00 k	Hz*		Span 4 MHz			
Res BW 39.000	) kHz				#Swee	p 2.00 s (1001 pts)			
2 Metrics	v								
Total Channe	el Power	-28.99 dBm / 1.0	0 MHz						
Total Power	Spectral Densi	ty -88.99 d	Bm/Hz						
15		Dec 16, 2024	$\odot$						
		5:30:23 PM							

# LTE B25\_10 M\_Extended Band Edge\_High\_QPSK\_FullRB



Swept SA       KEYSIGHT       Input: RF       RL       Align: Auto	Corrections: Off Preamp: Off Gate: Freq Ref: Int (S) µW Path: Standard IF Gai		1.0000000 GHZ	Settings
Spectrum v icale/Div 10 dB	Ref LvI Offset 26.90 dB Ref Level 26.90 dBm	Mkr1 1.850 000 GHz -32.079 dBm		
16.9			Full Span	
3.10			Start Freq 1.848000000 GHz	
13.1		DL1-13.00 dBm	Stop Freq 1.852000000 GHz	
23.1	1	RMS	AUTO TUNE	
3.1			CF Step 400.000 kHz	
53.1	- Alter Mail and An Anna March and Anna Anna Anna Anna Anna Anna Anna		Auto Man	
53.1			Freq Offset 0 Hz	
enter 1.850000 GHz Res BW 150 kHz	#Video BW 470 kHz	Span 4.000 MHz #Sweep ~2.01 s (1001 pts)		
- n c -	Pec 16, 2024		Signal Track (Span Zoom)	

### LTE B25\_15 M\_Band Edge\_Low\_QPSK\_1RB



Spectrum Analy Swept SA	vzer 1 🔻	÷						Frequency	y 🔹 🗦
EYSIGHT	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 10 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Trig: Free Rur	wer (RMS <mark>1</mark> 23456 A <del>WWWWW</del> A A A A A A		equency 0000 GHz	Settings
Spectrum cale/Div 10 d	B		Ref LvI Offset 26.90 Ref Level 26.90 dB		Mkr1	1.850 000 GHz -35.168 dBm	Swe	000 MHz ot Span Span	
16.9							Fu	ll Span	
3.90						RMS	Start Free 1.848000	1 0000 GHz	
13.1						DL1 -13.00 dBm	Stop Fred 1.852000	l 0000 GHz	
23.1							AUT	O TUNE	
3.1							CF Step 400.000	kHz	
53.1							Auto Man		
53.1							Freq Offs 0 Hz	et	
enter 1.8500 Res BW 150			#Video BW 470 k	Hz	#Swe	Span 4.000 MHz ep ~2.01 s (1001 pts)	X Axis Sc Log Lin	ale	
1		Dec 16, 2024 5:32:35 PM	$\square$				Signal Tra (Span Zoo		

# LTE B25\_15 M\_Band Edge\_Low\_QPSK\_FullRB



Spectrum Ana Channel Powe	lyzer 1 💡	+					\$	Frequency	▼ \$\frac{\$12}{218}\$
	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	Atten: 10 dB Preamp: Off µW Path: Standard #PNO: Fast	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 1.8485000 Avg Hold: 5/5 Radio Std: None	000 GHz	1.84850	requency 0000 GHz	Settings
1 Graph Scale/Div 10.	T		Ref LvI Offset 26.90 Ref Value 30.00 dB				Span 4.0000 M	ИHz	
Log			Ref Value 30.00 dB				CF Step 400.000	kHz	
10.0							Auto Man		
-10.0							Freq Offs 0 Hz	et	
-30.0						RMS AVG			
-50.0									
Center 1.8485 Res BW 39.00			Video BW 390.00 k	Hz*	#Sweep 2.0	Span 4 MHz 0 s (1001 pts)			
2 Metrics	¥				#Sheep 2.0	5 (1001 pts)			
Total Chan	nel Power	-31.81 dBm / 1.00	) MHz						
Total Powe	r Spectral Densi	ty -91.81 dE	3m/Hz						
1	C -	2 Dec 16, 2024 5:32:53 PM	$\square$						

### LTE B25\_15 M\_Extended Band Edge\_Low\_QPSK\_FullRB



Spectrum Analyzer 1	+					•	Frequency	( 1
KEYSIGHT     Input: RF       RL     Image: Coupling: DC: Align: Auto	Input Ζ: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 10 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Trig: Free Run	wer (RMS <mark>123456</mark> AWWWWW AAAAAA	Center Fi 1.91500 Span	requency 0000 GHz	Settings
Spectrum v cale/Div 10 dB		Ref LvI Offset 26.9 Ref Level 26.90 dB		Mkr1	1.915 000 GHz -32.066 dBm	4.00000	000 MHz pt Span Span	
16.9						Fu	ll Span	
3.90						Start Free 1.91300	9 0000 GHz	
13.1					DL1 -13.00 dBm	Stop Free 1.91700	9 0000 GHz	
3.1		1				AUT	O TUNE	
3.1					RMS	CF Step 400.000	kHz	
i3.1			and a second sec	45 \$5 \$5 \$6 \$6 \$6 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	*********	Auto Man		
53.1						Freq Offs 0 Hz	et	
enter 1.915000 GHz Res BW 150 kHz		#Video BW 470 k	Hz	#Swee	Span 4.000 MHz p ~2.01 s (1001 pts)		ale	
1 7 C 1	Pec 16, 2024 5:38:27 PM	$\Box \triangle$				Signal Tri (Span Zoo		

#### LTE B25\_15 M\_Band Edge\_High\_QPSK\_1RB



Spectrum Analyzer 1 Swept SA	÷			Frequency	/ / 影
KEYSIGHT RL ↔ Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 10 dB PNO Best Wide Preamp: Off Gate: Off µW Path: Standard IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run A A A A A A	Center Frequency 1.915000000 GHz	Settings
1 Spectrum   Scale/Div 10 dB Log		ef Lvi Offset 26.90 dB ef Level 26.90 dBm	Mkr1 1.915 000 GHz -33.436 dBm	4.0000000 Will IL	
16.9				Full Span	
6.90				Start Freq 1.913000000 GHz	
.13.1			DL1 -13.00 dBm	Stop Freq 1.917000000 GHz	
23.1	- And	1	RMS	AUTO TUNE	
43.1			1570.5	CF Step 400.000 kHz	
53.1				Auto Man	
63.1				Freq Offset 0 Hz	
Center 1.915000 GHz #Res BW 150 kHz		#Video BW 470 kHz	Span 4.000 MHz #Sweep ~2.01 s (1001 pts)		
<b>1</b> 7 C	Pec 16, 2024 5:37:47 PM	ÐA		Signal Track (Span Zeom)	

### LTE B25\_15 M\_Band Edge\_High\_QPSK\_FullRB



Spectrum A Channel Po	malyzer 1	+					\$	Frequency	$\left( -\frac{s^{1}z}{z_{1}s}\right)$
KEYSIGI RL →	HT Input: RF ← Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	Atten: 10 dB Preamp: Off µW Path: Standard #PNO: Fast	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 1.91650000 Avg Hold: 5/5 Radio Std: None	00 GHz	1.91650	requency 00000 GHz	Settings
1 Graph	*		Ref LvI Offset 26.90				Span 4.0000	MHz	
Scale/Div 1	10.0 dB		Ref Value 30.00 dB	m			CF Step		
20.0							400.000	0	
-10.0							Freq Off 0 Hz	set	
-30.0						RMS AVG			
-50.0									
Center 1.91 Res BW 39			Video BW 390.00 k	Hz*	#Sweep 2.00	Span 4 MHz s (1001 pts)			
2 Metrics	Ŧ								
Total Ch	annel Power	-26.72 dBm / 1.00	) MHz						
Total Por	wer Spectral Densi	ty -86.72 dE	3m/Hz						
		2 Dec 16, 2024 5:38:04 PM	$\Box$						

# LTE B25\_15 M\_Extended Band Edge\_High\_QPSK\_FullRB



Swept SA KEYSIGHT RL →→→	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 10 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS 1 2 3 4 5 Trig: Free Run A WW WW A A A A A	1.8500	Frequency 00000 GHz	Settings
Spectrum cale/Div 10 d	T IB		Ref Lvi Offset 26.90 Ref Level 26.90 dB		Mkr1 1.850 000 GF -32.616 dB	m Sv	0000 MHz rept Span ro Span	
6.9							ull Span	
3.10						Theohemotore	00000 GHz	
3.1					Dt.1 -13.00 dt	Stop Fr 1.8520	eq 00000 GHz	
3.1			11				ITO TUNE	
3.1						CF Stej 400.00	0 kHz	
3.1		-anto-deservanterdation and the	and a start of the			Au	in	
33.1						Freq Of 0 Hz		
enter 1.8500 Res BW 200			#Video BW 620 k	Hz	Span 4.000 M #Sweep ~2.01 s (1001 p		g	
15	C [ ]	Dec 16, 2024 5:40:56 PM	$\square \triangle$			Signal "		

### LTE B25\_20 M\_Band Edge\_Low\_QPSK\_1RB



Spectrum Analyzer 1 Swept SA	• +			Frequency	/ · · 🔆
KEYSIGHT Input: RF RL ↔ Align: Auto		PNO: Best Wide #/ Gate: Off Tr Jard IF Gain: Low Sig Track: Off	Avg Type: Power (RMS 1 2 3 4 9 ng: Free Run A WWW A A A A A	1.85000000 GHz	Settings
1 Spectrum v Scale/Div 10 dB	Ref Lvi Offset 2 Ref Level 26.90		Mkr1 1.850 000 G -36.518 dB	Z 4.0000000 MHz	
16.9				Full Span	
3.10			R	Start Freq 1.848000000 GHz	
13.1			DL1-13.00 c	Stop Freq 1.852000000 GHz	
23.1				AUTO TUNE	
33.1		1		CF Step 400.000 kHz	
53.1				Auto Man	
63.1				Freq Offset 0 Hz	
Center 1.850000 GHz #Res BW 200 kHz	#Video BW 62	0 kHz	Span 4.000 N #Sweep ~2.01 s (1001 p		
<b>ま</b> って	2 Dec 16, 2024 5:40:16 PM			Signal Track (Span Zoom)	

# LTE B25\_20 M\_Band Edge\_Low\_QPSK\_FullRB



		Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	Atten: 10 dB Preamp: Off µW Path: Standard #PNO: Fast	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 1.8485000 Avg Hold: 5/5 Radio Std: None	000 GHz	1.8485	Frequency 00000 GHz	Settings
1 Graph	٠		Ref LvI Offset 26.9				Span 4.0000	MHz	
Scale/Div 10.0	dB		Ref Value 30.00 dB	m			CF Step 400.00 Aut Ma	0 kHz to	
0.00							Freq Of 0 Hz	fset	
30.0 40.0 50.0						RMS AVG			
60.0 Senter 1.84850 Ses BW 39.000			Video BW 390.00 k	Hz*	#Sweep 2.0	Span 4 MHz 0 s (1001 pts)			
? Metrics	Ţ								
Total Channe	el Power	-33.38 dBm / 1.0	00 MHz						
Total Power	Spectral Densit	-93.38 d	IBm/Hz						
<b>1</b> 50		Dec 16, 2024 5:40:35 PM	$\square$						

# LTE B25\_20 M\_Extended Band Edge\_Low\_QPSK\_FullRB



	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 10 dB Preamp: Off µW Path: Standard	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	#Avg Type: Po Trig: Free Run	wer (RMS <mark>123456</mark> A <del>WWWW</del> AAAAAA	Center Fr 1.91500 Span	equency 0000 GHz	Settings
Spectrum cale/Div 10 dl	3		Ref LvI Offset 26.9 Ref Level 26.90 dB		Mkr1	1.915 000 GHz -32.688 dBm	4.00000	000 MHz pt Span Span	
5.9 90 10							Start Free	ll Span 1 0000 GHz	
3.1						DL1 -13.00 dBm		0000 GHz	
3.1					Marganative brits - Maria par	RMS	CF Step 400.000 Auto Man	bj	
3.1						nen gangan sakan (a da kaya ya anaka baga na yang	Freq Offs 0 Hz X Axis Sc	et	
enter 1.91500 Res BW 200 k			#Video BW 620 k	Hz	#Swe	Span 4.000 MHz ep ~2.01 s (1001 pts)		ale	
5		Dec 16, 2024 5:46:07 PM					Signal Tra (Span Zoo		

#### LTE B25\_20 M\_Band Edge\_High\_QPSK\_1RB



Spectrum Analyzer 1 Swept SA	• +			Frequenc	y y 👯
RL +++ Align: Auto		#Atten: 10 dB PNO: Best Wide Preamp: Off Gate: Off µW Path: Standard IF Gain: Low Sig Track: Off	#Avg Type: Power (RMS 1 2 3 4 5 6 Trig: Free Run AWWWW A A A A A A	Center Frequency 1.915000000 GHz	Settings
1 Spectrum v Scale/Div 10 dB Log		Ref LvI Offset 26.90 dB Ref Level 26.90 dBm	Mkr1 1.915 000 GHz -33.838 dBm	4.00000000 11112	
16.9				Full Span	
6.90				Start Freq 1.913000000 GHz	
3.10			DL1 -13.00 dBm	Stop Freq 1.917000000 GHz	
23.1		1		AUTO TUNE	
33.1			RMS	CF Step 400.000 kHz	
53.1				Auto Man	
-63.1				Freq Offset 0 Hz	
Center 1.915000 GHz #Res BW 200 kHz		#Video BW 620 kHz	Span 4.000 MHz #Sweep ~2.01 s (1001 pts)		
1 う で 1	Dec 16, 2024 5:45:27 PM	$\square$		Signal Track (Span Zoom)	1

#### LTE B25\_20 M\_Band Edge\_High\_QPSK\_FullRB



Spectrum Analy Channel Power	zer 1	+						Frequency	- 祭
KEYSIGHT RL +→+	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	Atten: 10 dB Preamp: Off µW Path: Standard #PNO: Fast	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 1.91 Avg Hold: 5/5 Radio Std: None	6500000 GHz	provide the second second	Frequency 00000 GHz	Settings
1 Graph	•		Ref LvI Offset 26.90	) dB			4.0000	MHz	
Scale/Div 10.0	dB		Ref Value 30.00 dB	m			CF Step		
20.0							400.000		
10.0							Aut Mai		
-10.0							Freq Off	'set	
-20.0							0 Hz		
-30.0									
-40.0						RMS AVG			
-50.0									
-60.0									
Center 1.91650			Video BW 390.00 k	Hz*		Span 4 MHz			
Res BW 39.000	) kHz				#Swee	p 2.00 s (1001 pts)			
2 Metrics	•								
Total Channe	el Power	-28.40 dBm / 1.0	0 MHz						
Total Power	Spectral Densi	ty -88.40 d	Bm/Hz						
15		2 Dec 16, 2024	$\odot$						
		5:45:45 PM							

# LTE B25\_20 M\_Extended Band Edge\_High\_QPSK\_FullRB



# **10. ANNEX A\_ TEST SETUP PHOTO**

Please refer to test setup photo file no. as follows;

No.	Description
1	HCT-RF-2502-FC111-P