Intertek

TEST REPORT

6 Conducted Unwanted Emission

Test result: Pass

6.1 Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P) dB$.

6.2 Measurement Procedure

In accordance with FCC rules, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

The spurious emissions from the antenna terminal were measured. The transmitter output power was attenuated using an attenuator and the frequency spectrum investigated from 9kHz to 20GHz. The resolution bandwidth of 1MHz was employed for frequency band 9kHz to 20GHz. The spectrum analyzer detector was set to RMS.

For MIMO mode configurations, the limit was adjusted with a correction of -6.02dB [10Log(1/4)] by using the Measure and Add 10Log(N) dB technique according to KDB 662911 D01 Multiple Transmitter Output accounting for simultaneous transmission from antenna ports. Then the limit was adjusted to -19.02dBm.



TEST REPORT

6.3 Measurement result

NR-1C

Antenna Port	Channel Position	Modulation	Carrier BW (MHz)	RBW (kHz)	Limit (dBm)
D	В	256QAM	25	1000	-19.02
D	М	256QAM	25	1000	-19.02
D	Т	256QAM	25	1000	-19.02

					Chann	el PUSI						
Spectrum A Swept SA	nalyzer 1	Spectrum A Swept SA	nalyzer 2	Spectr Swept	um Analyze SA		Spectrum Ana Swept SA		+		Marker	v 👯
	Input: RF Coupling: DC Align: Auto	Input Z: 5 Correctio Freq Ref: NFE: Ada	ns:Off F ∶Int(S) µ	¢Atten: 10 dΒ Preamp: Off ιW Path: Star	Gate: ndard IF Gai	LO	Avg Type: Po Trig: Externa		123456 WWWWWW ANNNN	Select Ma Marker 1	rker	
a Spectrum	▼		·	f Lvl Offset		ack. Off	M	kr1 1.9	29 0 GHz	Marker Fr 1.929000		Settings
ale/Div 10 d	IB		Ref	Level 20.0	0 dBm			-7	7.20 dBm	Peak	Search	Peak Search
).0										Ne>	kt Peak	Pk Searc Config
00									1	Next	Pk Right	Propertie
.0										Next	: Pk Left	Marker Function
.0										Minim	ium Peak	Marker-
.0										Pk-Pl	k Search	Counter
.0				l i distante	di Multi I m	مافرد المربية	A dat constation of a liters	and an a state of the first state of the state	الإلجار المحالية الم	Mark	er Delta	
	n in the second s	a in the set of the set	and the state of the							Mk	r→CF	
											→Ref Lvl	
art 9 kHz tes BW 1.0 N	ЛНz		#\	/ideo BW 3	.0 MHz*		#Sw		9 1.9290 GHz s (4001 pts)	On	ıs Peak	
		? Jan 31, 2:47:5			acterize Noi	se Floor re	equired			Off		

Channel Position B

Spectrum Analyzer 4 Swept SA	Spectrum Analyzer 5 Swept SA	Spectrum A Channel Po		Channel P		+	Marker	· · 米
KEYSIGHT Input: RF	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 10 dB Preamp: Off μW Path: Standard	PNO: Fast Gate: LO IF Gain: Low Sig Track: Off	Avg Typ Trig: Ext	e: Power (RMS ternal 1	123456 WWWWWW ANNNNN	Select Marker Marker 1	•
LNT 1 Graph ▼	R	ef LvI Offset 42.73	dB			ANNINN	Marker Frequency 1.929000000 GHz	Settings
Scale/Div 10.0 dB	R	ef Value 20.00 dB	m				Peak Search	Peak Search
0.00							Next Peak	Pk Search Config
-10.0 -20.0							Next Pk Right	Properties
-30.0							Next Pk Left	Marker Function
-50.0 ^{เป็ญปี} เป็นปฏาหัวในช่วงหมายคุณกับหุลไทยใจเมือง -60.0	entitional to be showed a state of the second	pepel/distrike/spontilyter/decase/decky	er personang tangkan kan	-payal franking half an	"wayon preserve massings	blepeloophe ^u lpruse	Minimum Peak	Marker→
-70.0							Pk-Pk Search	Counter
Center 1.928500 GHz #Res BW 10.000 kHz	#\	/ideo BW 30.000 I	<hz*< td=""><td></td><td>#Sween 1.0</td><td>Span 2 MHz 0 s (1001 pts)</td><td>Marker Delta</td><td></td></hz*<>		#Sween 1.0	Span 2 MHz 0 s (1001 pts)	Marker Delta	
2 Metrics							Mkr→CF	
Total Channel Power	-29.12 dBm / 1.00	MHz					Mkr→Ref Lvl	
Total Power Spectral Dens	ity -89.12 dBr						Continuous Peak Search On Off	
	? Jan 31, 2023 2:49:33 PM		ize Noise Floo	r required				



Spectrum A Swept SA	nalyzer 1	Spectrum A Swept SA	nalyzer 2	Spect Swept	rum Analy: t SA	zer 3	Sw	ectrum Anal /ept SA		+	\$	Marker	· · 宗
	Input: RF Coupling: DC Align: Auto	Input Z: Correctio Freq Ref NFE: Ad	ons: Off : Int (S)	#Atten: 20 dB Preamp: Off µW Path: Sta	Gate ndard IF G): Fast e: LO ain: Low Track: Off		Avg Type: Po Trig: Externa	ower (RN al 1	MS) 12 3 4 5 6 W WW WW W A N N N N N	Select Mar Marker 1	'ker	
1 Spectrum	•	NI L. / U	R	ef Lvi Offset	12.08 dB			M		6.028 5 GHz	Marker Fr 6.028500		Settings
Scale/Div 10 d	B		R	ef Level 10.0	0 dBm					-64.07 dBm	Peak	Search	Peak Search
0.00											Nex	t Peak	Pk Search Config
-10.0											Next	Pk Right	Properties
-20.0											Next	Pk Left	Marker Function
-40.0											Minim	um Peak	Marker→
-50.0											Pk-Pł	Search	Counter
-60.0 1											Mark	er Delta	
-70.0	ر المسالي المار الم	~~~		لملمين المحرب الجمر	-	مراجه	Y		ان ال		Mk	r→CF	
-80.0											Mkr– Continuou	→Ref Lvl	
Start 6.000 GH #Res BW 1.0 M			#	Video BW 3	.0 MHz*			#Swe		top 13.000 GHz .0 s (14001 pts)	Search On	i s r eak	
		? Feb 01 8:58:4		··· 1 Char	racterize N	loise Flo	or req	uired			Off		

Spectrum Ana Swept SA	<u> </u>	Spectrum Swept SA	Analyzer 2	Spectr Swept	um Analyze SA		Spectrum Ana Swept SA	·	• + •	Marker	- * 崇
	nput: RF Coupling: DC Align: Auto		ions: Off ef: Int (S)	#Atten: 20 dB Preamp: Off μW Path: Star	Gate: ndard IF Gai	LO	Avg Type: Po Trig: Externa	ower (RMS) il 1	123456 W\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Select Marker Marker 1	
1 Spectrum Scale/Div 10 dB	v		Re	f Lvi Offset	35.00 dB		Mk		i00 5 GHz 4.62 dBm	Marker Frequency 19.500500000 GHz	Settings
Log			Re	f Level 10.0	U dBM			-4	4.62 UDIII	Peak Search	Peak Search
0.00										Next Peak	Pk Search Config
-10.0										Next Pk Right	Properties
-20.0										Next Pk Left	Marker Function
-40.0									1	Minimum Peak	Marker→
-50.0	روالر سالي المس	ميينة فأستريه المتاجم	والفن بالغافش الأمل		alline and Manager		and growth and the second		antipland ^{Con} tinuing Internet	Pk-Pk Search	Counter
-60.0										Marker Delta	
-70.0										Mkr→CF	
-80.0										Mkr→Ref Lvl	
Start 13.000 GH: #Res BW 1.0 MH			# 1, 2023 29 AM	Video BW 3	.0 MHz* acterize No	ise Floor re		ep ~14.0	p 20.000 GHz s (14001 pts)	Continuous Peak Search On Off	

TEST REPORT

Channel Position M

Spectrum A Swept SA		Spectrum Analyzer 2 Swept SA	2 Spectrum Ar Swept SA		Spectrum Ana Swept SA		+ >	Marker	- ※
KEYSIGHT	Input: RF Coupling: DC Align: Auto	Input Ζ: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	Preamp: Off µW Path: Standard	PNO: Fast Gate: LO IF Gain: Low Sig Track: Off	Avg Type: Pe Trig: Externa	al 1	1 2 3 4 <mark>5 6</mark> WWWWWW A N N N N N	Select Marker Marker 1	
1 Spectrum	•	R	ef Lvi Offset 42.73	dB	М	kr1 1.92	9 0 GHz	Marker Frequency 1.929000000 GHz	Settings
Scale/Div 10 d	B	R	tef Level 20.00 dBn	n		-34	.54 dBm	Peak Search	Peak Search
10.0								Next Peak	Pk Search Config
0.00								Next Pk Right	Properties
-10.0								Next Pk Left	Marker Function
-30.0							1/	Minimum Peak	Marker→
-40.0							<u> </u>	Pk-Pk Search	Counter
-50.0					and distinguishing a literature	line,	بالاد. بربالان معالمه ارد	Marker Delta	
-60.0	ine takkladion er kleninger t	an a philosophilological part of the second seco			and an an and a second			Mkr→CF	
-70.0								Mkr→Ref Lvl	
Start 9 kHz #Res BW 1.0 M		A lan 31, 2023	#Video BW 3.0 MH	z* ze Noise Floor r		veep ~4.01 s	1.9290 GHz s (4001 pts)		



Spectrum Al Swept SA		Spectrum Ana Swept SA		ctrum Analyzer 3 pt SA	Spectrum Ana Swept SA		+	Ф м	arker v 🔀
KEYSIGHT	Input: RF Coupling: DC Align: Auto	Input Z: 50 Corrections Freq Ref: In NFE: Adapt	: Off Preamp: Of nt (S) µW Path: S		v Irig: Externa	W ∀	3456 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Select Marker Marker 1	
1 Spectrum	•		Ref LvI Offse	et 12.08 dB		r1 10.878	0 GHz	Marker Frequen	GHz
Scale/Div 10 d	B		Ref Level 10	.00 dBm		-64.8	0 dBm	Peak Searc	h Peak Search
0.00								Next Peak	Pk Search Config
-10.0								Next Pk Rig	ht Properties
-20.0								Next Pk Le	ft Marker Function
-40.0								Minimum Pe	eak Marker→
-50.0								Pk-Pk Sear	ch Counter
-60.0					1			Marker Del	ta
-70.0	نىشىرىلە		فسالمسالمها	al and a start of the	~~~~	$\wedge \wedge \dots$		Mkr→CF	
-80.0								Mkr→Ref L	
Start 6.000 GH #Res BW 1.0 M		? Feb 01, 2 9:02:12/		3.0 MHz* aracterize Noise F		ep~14.0 s (1		Continuous Pea Search On Off	k

	Swept SA
KEYSIGHT Input: RF Input Z: 50 Ω #Atten: 20 dB PN → Coupling: DC Corrections: Off Ga Preamp: Off Ga Align: Auto Freq Ref: Int (S) NFE: Adaptive W Path: Standard IF Sig	Trig: External 1 Www.www Marker 1 v Off A NN NN N
1 Spectrum v Ref Lvi Offset 35.00 dB Scale/Div 10 dB Ref Level 10.00 dBm	Mkr1 18.820 5 GHz Marker Frequency Settings Settings
	-42.12 dBm Peak Search Search
0.00	Next Peak Pk Search Config
-10.0	Next Pk Right Properties
-20.0	Next Pk Left Marker Function
-40.0	1
-50.0	Pk-Pk Search Counter
-60.0	Marker Delta
-70.0	Mkr→CF
-80.0	Mkr→Ref Lvl
Start 13.000 GHz #Res BW 1.0 MHz #Res BW 1.0 MHz Feb 01, 2023	Stop 20.000 GHz #Sweep ~14.0 s (14001 pts) Floor required

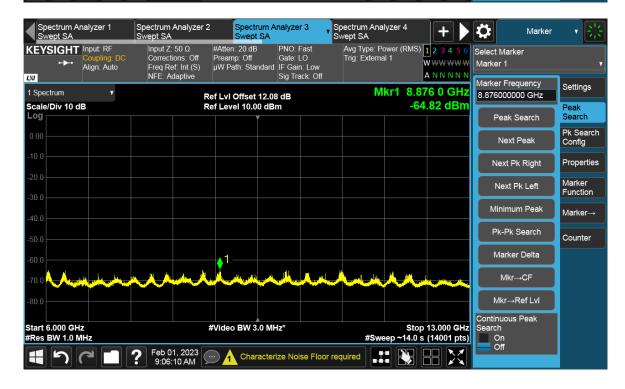
TEST REPORT

Channel Position T

Spectrum Al Swept SA	nalyzer 1	Spectrum Analyzer 2 Swept SA	2 Spectrum A Swept SA	Analyzer 3	Spectrum Ana Swept SA		+ >	Marker	影
KEYSIGHT	Input: RF 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: Fast Gate: LO IF Gain: Low Sig Track: Off	Avg Type: P Trig: Externa	ower (RMS) al 1	123456 WWWWWW ANNNN	Select Marker Marker 1	•
1 Spectrum	•	F	ef LvI Offset 42.7	3 dB	M		28 5 GHz	1.520011102 0112	Settings
Scale/Div 10 d	В	.	Ref Level 20.00 dB	m		-31	6.84 dBm	Peak Search	Peak Search
10.0								Next Peak	Pk Search Config
0.00								Next Pk Right	Properties
-10.0								Next Pk Left	Marker Function
-30.0								Minimum Peak	Marker→
-40.0								Pk-Pk Search	Counter
-50.0					والمتعادين والمتعادين	وتعاصفهم ومناعرها والأل	aller Marine and a start of the start of	Marker Delta	
-60.0	nga ayan da la da ayan da an an	الانتخار فليعلم الجيز والمدادية بالأفادية بروا ويسترك المر	معادرتهم بالرجية فتحمالهم والمرأفين والارو	and a start from the start of the				Mkr→CF	
-70.0								Mkr→Ref Lvl	
Start 9 kHz #Res BW 1.0 M		A lap 31, 2023	#Video BW 3.0 Mi	Hz*		veep ~4.01	0 1.9290 GHz s (4001 pts)		



KEYSIGHT Input: RF Input: Z: 50 Ω Atten: 20 dB Trig: External 1 Center Freq: 1.996500000 GHz Center Frequency Coupling: DC Corrections: Off Gate: LO AvglHold: 8/10 1.996500000 GHz 1.996500000 GHz 1.996500000 GHz 1.996500000 GHz	
NT NFE Adaptive #PNO Fast	Settings
I Graph Ref Lvl Offset 44.50 dB 2.0000 MHz Scale/Div 10.0 dB Ref Value 10.00 dBm 2.0000 MHz	
Log CF Step 0.00	
-60.0 -70.0 -80.0 -80.0 -80.0 -80.0 Center 1.996500 GHz #Video BW 30.000 kHz* Span 2 MHz	
#Res BW 10.000 kHz #Sweep 1.00 s (1001 pts) 2 Metrics Total Channel Power -28.56 dBm / 1.00 MHz Total Power Spectral Density -88.56 dBm/Hz	



TEST REPORT

Spectrum A Swept SA	nalyzer 1	Spectrum Analyzer Swept SA	2 Spectrum A Swept SA	Analyzer 3	Spectrum Anal Swept SA		Marker	▼ ∺
KEYSIGHT ↔	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 20 dB Preamp: Off μW Path: Standard	PNO: Fast Gate: LO IF Gain: Low Sig Track: Off	Avg Type: Po Trig: Externa	wer (RMS) 12 3 4 5 6 I 1 W WW WW W A N N N N N	Select Marker Marker 1	
1 Spectrum	•		Ref LvI Offset 35.0	0 dB	Mkı	r1 18.847 0 GHz		Settings
Scale/Div 10 d	IB		Ref Level 10.00 dB	m		-42.55 dBm	Peak Search	Peak Search
0.00							Next Peak	Pk Search Config
-10.0							Next Pk Right	Properties
-20.0							Next Pk Left	Marker Function
-30.0						1	Minimum Peak	Marker→
-50.0		and the state of the		alised and the assessments have	iles a let be attracted as a set	inter the second state of a second state of the second state of th	Pk-Pk Search	Counter
60.0							Marker Delta	
.70.0							Mkr→CF	
-80.0							Mkr→Ref Lvl	
Start 13.000 G #Res BW 1.0 N			#Video BW 3.0 Mi	Hz*	#Swe	Stop 20.000 GHz ep ~14.0 s (14001 pts)	On	
	C	? Feb 01, 2023 10:08:35 AM		rize Noise Flooi	r required		Off	

Antenna Port	Channel Position	Modulation	Carrier BW (MHz)	RBW (kHz)	Limit (dBm)
D	В	256QAM	30	1000	-19.02
D	М	256QAM	30	1000	-19.02
D	Т	256QAM	30	1000	-19.02

Channel Position B

Spectrum A Swept SA		Spectrum Analyzer 2 Swept SA	Spectrum A Swept SA	Analyzer 3	Spectrum Anal Swept SA		+	*	Marker	- *
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 Gate: LO IF Gain: Low Sig Track: Off	Avg Type: Po Trig: Externa	M	23456	Select Marke Marker 1	er	
1 Spectrum	▼		ef LvI Offset 42.7		M	kr1 1.92		Marker Fred 1.9290000		Settings
Scale/Div 10 c	IB		ef Level 20.00 dB			-10.	90 dBm	Peak S	Search	Peak Search
10.0								Next	Peak	Pk Search Config
0.00							1/	Next Pl	k Right	Properties
-10.0							\rightarrow	Next P	Pk Left	Marker Function
-30.0								Minimur	m Peak	Marker→
-40.0								Pk-Pk \$	Search	Counter
-50.0			and the company of the second	and the second state of th	a manifest to all the offered	والمتعادية أفروه ومعطرا والعا	Netwind Line of Control of	Marker	r Delta	
-60.0								Mkr-	→CF	
-70.0								Mkr→F		
Start 9 kHz #Res BW 1.0 M	MHz	Ian 31, 2023	¢Video BW 3.0 MI			veep ~4.01 s	1.9290 GHz (4001 pts)		Peak	
		3:15:33 PM		ize Noise Floor	required		ii 🔀			

Spectrum A Swept SA	Analyzer 4	Spectrum Analyzer 5 Swept SA		pectrum Analyzer 7 hannel Power		· · · 🛞
KEYSIGHT ↔	Input: RF Coupling: DC Align: Auto	Corrections: Off Prea	n: 10 dB PNO: Fast np: Off Gate: LO ath: Standard IF Gain: Low Sig Track: Off		4 5 6 Select Marker Marker 1	
1 Graph	•	Ref Lv	Offset 42.73 dB		Marker Frequency 1.929000000 GHz	Settings
Scale/Div 10.0) dB	Ref Va	ue 20.00 dBm		Peak Search	Peak Search
10.0 0.00					Next Peak	Pk Search Config
-10.0					Next Pk Right	Properties
-30.0					Next Pk Left	Marker Function
-50.0	energy and the second	helina langa kala kala kala kala kala kala kala ka	hter of the second of the second s	anter-rule manager-rules with statement of	Minimum Peak	Marker→
-70.0					Pk-Pk Search	Counter
Center 1.9285 #Res BW 10.0		#Video	BW 30.000 kHz*	Span #Sweep 1.00 s (100	2 MHz Marker Delta	
2 Metrics	•				Mkr→CF	
Total Chanr	nel Power	-27.68 dBm / 1.00 MHz			Mkr→Ref Lvl	
Total Power	r Spectral Densi	-87.68 dBm/Hz			Continuous Peak Search On	
1 5	C	? Jan 31, 2023 3:16:11 PM	Characterize Noise Floor re-	quired	off	

Spectrum A Swept SA	nalyzer 1	Spectrum Analyz Swept SA		ectrum Analyz ept SA		pectrum Analı wept SA		+	₽	Marker	、 米
KEYSIGHT	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Of Freq Ref: Int (S NFE: Adaptive		ff Gate Standard IF Ga		Avg Type: Po Trig: External		123456 WWWWWW ANNNN	Select Mark Marker 1	er	
1 Spectrum	•		Ref Lvi Offs	et 44.50 dB		M		96 0 GHz	Marker Fre 1.9960000		Settings
Scale/Div 10 d	B		Ref Level 3	0.00 dBm			-34	2.46 dBm	Peak	Search	Peak Search
20.0									Next	Peak	Pk Search Config
10.0									Next P	k Right	Properties
-10.00									Next F	^p k Left	Marker Function
-20.0									Minimu	m Peak	Marker→
-30.0									Pk-Pk	Search	Counter
-40.0									Marke	r Delta	
-50.0	and started desired as	times description description	Nerrow March 1	Lun and a second	the state of the s	an a	No. of Concession, Name		Mkr-	→CF	
-60.0									Mkr→		
Start 1.996 GH #Res BW 1.0 M		? Jan 31, 2023 3:18:36 PM	#Video BV	V 3.0 MHz*	bise Floor re		eep ~8.21	op 6.000 GHz s (8201 pts)	Continuous Search On Off	Peak	

Spectrum Ar Swept SA	nalyzer 1	Spectrum Swept SA		2 Spect Swept	rum Analy t SA	zer 3	Św	ectrum Anal ept SA		+		Marker	· 米
	Input: RF Coupling: DC Align: Auto		ions: Off ef: Int (S)	#Atten: 20 dE Preamp: Off µW Path: Sta	Gat ndard IF C	D: Fast e: LO Bain: Low Track: Off		Avg Type: Po Trig: Externa	ower (RMS) Il 1	123456 WWWWWW ANNNNN	Select Ma Marker 1	rker	•
1 Spectrum	T		R	ef Lvi Offset	12.08 dB			Mk		87 0 GHz	Marker Fi 10.88700	requency 00000 GHz	Settings
Scale/Div 10 d	B		R	lef Level 10.0	0 dBm				d-	4.95 dBm	Peak	< Search	Peak Search
0.00											Ne	kt Peak	Pk Search Config
-10.0											Next	Pk Right	Properties
-20.0											Nex	t Pk Left	Marker Function
-40.0											Minim	num Peak	Marker→
-50.0											Pk-P	k Search	Counter
-60.0							_	1			Mark	ker Delta	
-70.0	ماطوياللويان	くく	-	Mar Mar Mar	الر اللي	المريد أأتحرجها	V	بالمرياض	ر المرين المر	and when when	Mł	ĸr→CF	
-80.0												→Ref Lvl	
Start 6.000 GH: #Res BW 1.0 M			1, 2023 39 AM	#Video BW 3	.0 MHz*	loise F <u>lo</u>	or requ		ep ~14.0	p 13.000 GHz s (14001 pts)	Continuo Search On Off	us Peak	

Spectrum A Swept SA	<u> </u>	Spectrum Swept SA	Analyzer 2	Spectr Swept	um Analyze SA		pectrum Anal wept SA	·	• + •	‡	Marker	- ※
KEYSIGHT ↔→	Input: RF Coupling: DC Align: Auto		ions: Off ef: Int (S)	#Atten: 20 dB Preamp: Off μW Path: Sta	Gate: I ndard IF Gai	_0	Avg Type: Po Trig: Externa	ower (RMS) Il 1	123456 WWWWWW ANNNN	Select Marker Marker 1		_
1 Spectrum	T		Re	f Lvl Offset	35.00 dB		Mk		42 0 GHz 1.89 dBm	Marker Frequ 19.54200000		Settings
Scale/Div 10 d	IB		Re	f Level 10.0	U dBm			-4	1.09 UDIII	Peak Se	earch	Peak Search
0.00										Next P	eak	Pk Search Config
-10.0										Next Pk	Right	Properties
-20.0										Next Pk	Left	Marker Function
-40.0									1	Minimum	Peak	Marker→
-50.0	man market	a de la constante de la constan	-	م المرد الأنس	-	ale, medication		الغالا بالأعمالة ألمعطوه		Pk-Pk Se	earch	Counter
-60.0										Marker [Delta	
-70.0										Mkr→	CF	
-80.0										Mkr→Re	ef Lvi	
Start 13.000 G #Res BW 1.0 N				Video BW 3	.0 MHz*			ep ~14.0	o 20.000 GHz s (14001 pts)	Continuous F Search On Off	^v eak	
			1, 2023 :22 AM		acterize Noi	se Floor re	quired					

TEST REPORT

Channel Position M

Spectrum A Swept SA		Spectrum Analyzer 2 Swept SA	Spectrum A Swept SA		Spectrum Ana Swept SA		+	Marker	- ※
KEYSIGHT	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	Preamp: Off µW Path: Standard	PNO: Fast Gate: LO IF Gain: Low Sig Track: Off	Avg Type: Po Trig: Externa	al 1	1 2 3 4 <mark>5 6</mark> WWWWWW A N N N N N	Select Marker Marker 1	
1 Spectrum	•	R	ef LvI Offset 42.73	dB	M	kr1 1.92	8 5 GHz	Marker Frequency 1.928517752 GHz	Settings
Scale/Div 10 d	В	R	ef Level 20.00 dBr	n		-30	.64 dBm	Peak Search	Peak Search
10.0								Next Peak	Pk Search Config
0.00								Next Pk Right	Properties
-10.0								Next Pk Left	Marker Function
-30.0							1	Minimum Peak	Marker→
-40.0								Pk-Pk Search	Counter
-50.0			A destautoties and second	a an saturdaya	والقريط والقروم والمعار ومرو	و معالية المربع من رقم	Alfred and a state of the state of	Marker Delta	
-60.0	ladonia tidon fini ang	naken an dipeter (an des de peles par else de le de			and and a set of a s			Mkr→CF	
-70.0								Mkr→Ref Lvi	
Start 9 kHz #Res BW 1.0 M		A lan 31 2023	#Video BW 3.0 MH	z* ze Noise Floor r		veep ~4.01 s	1.9290 GHz s (4001 pts)		



Spectrum A Swept SA	nalyzer 1	Spectrum Swept SA		2 Spect Swept	um Analyz SA	zer 3	Sw	ectrum Anal /ept SA		+		Marker	· · · · · · · · · · · · · · · · · · ·
	Input: RF Coupling: DC Align: Auto		ions: Off ef: Int (S)	#Atten: 20 dE Preamp: Off µW Path: Sta	Gate Indard IF G			Avg Type: Po Trig: Externa	ower (RMS I 1	123456 WWWWWW ANNNNN	Select Ma Marker 1	rker	
1 Spectrum			R	ef Lvi Offset	12.08 dB			Mk		02 5 GHz	Marker Fi 10.90250	requency 00000 GHz	Settings
Scale/Div 10 d	B		R	lef Level 10.0	0 dBm				-6	4.34 dBm	Peal	< Search	Peak Search
0.00											Ne	kt Peak	Pk Search Config
-10.0											Next	Pk Right	Properties
-20.0											Nex	t Pk Left	Marker Function
-40.0											Minim	num Peak	Marker→
-50.0											Pk-P	k Search	Counter
-60.0							_	1			Mark	ker Delta	
-70.0	ويدعله والمحاص		بالجريدة المطيع	and the second second	بالرياس	مرالي	4	باللحون المحص	×.	the second	Mł	ĸr→CF	
-80.0												→Ref Lvl	
Start 6.000 GH #Res BW 1.0 N		Feb.0	1. 2023	#Video BW 3					ep ~14.0	p 13.000 GHz s (14001 pts)	Continuou Search On Off	us Peak	
			55 AM		acterize N	oise Flo	or req	uired					

Spectrum Ana Swept SA	<u> </u>	Spectrum Swept SA	Analyzer 2	Spectr Swept	um Analyze SA		pectrum Ana wept SA		•+ •	Marker	• 影
	nput: RF Coupling: DC Align: Auto		ions: Off ef: Int (S)	#Atten: 20 dB Preamp: Off µW Path: Star	Gate: I ndard IF Gai	LO	Avg Type: Po Trig: Externa	ower (RMS al 1) <mark>1</mark> 2 3 4 5 6 W WW WW W A N N N N N	Select Marker Marker 1	_
1 Spectrum Scale/Div 10 dB	•			ef LvI Offset ef Level 10.0			Mk		346 5 GHz 2.60 dBm	Marker Frequency 19.346500000 GHz	Settings Peak
Log	, 		R	er Lever 10.0	U UBIII				2.00 0.011	Peak Search	Peak Search
0.00										Next Peak	Pk Search Config
-10.0										Next Pk Right	Properties
-20.0										Next Pk Left	Marker Function
-40.0									1	Minimum Peak	Marker→
-50.0	الفاسي _{ن ا} ذاكر الم		athe and the sectors		فالمناط فيرجا ال	a _{Ca} dreni d ^{il} lar			and the state of the	Pk-Pk Search	Counter
-60.0										Marker Delta	
-70.0										Mkr→CF	
-80.0										Mkr→Ref Lvl	
Start 13.000 GH #Res BW 1.0 MH			# 1, 2023 :13 AM	Video BW 3	.0 MHz* acterize Noi	ise Floor re		eep ~14.0	p 20.000 GHz s (14001 pts)	Continuous Peak Search On Off	

TEST REPORT

Channel Position T

Spectrum Al Swept SA	nalyzer 1	Spectrum Analyzer 2 Swept SA	Spectrum Ar Swept SA		Spectrum Ana Swept SA		+)	Marker	- ※
KEYSIGHT ↔	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	Preamp: Off µW Path: Standard	PNO: Fast Gate: LO IF Gain: Low Sig Track: Off	Avg Type: Po Trig: Externa	al 1 V	L 2 3 4 5 6 V W W W W A N N N N N	Select Marker Marker 1	
1 Spectrum	•		ef LvI Offset 42.73	dB	M	kr1 1.92	9 0 GHz	Marker Frequency 1.929000000 GHz	Settings
Scale/Div 10 d	B	R	ef Level 20.00 dBn	1		-35	.85 dBm	Peak Search	Peak Search
10.0								Next Peak	Pk Search Config
0.00								Next Pk Right	Properties
-10.0								Next Pk Left	Marker Function
-30.0							1	Minimum Peak	Marker→
-40.0								Pk-Pk Search	Counter
-50.0					والمعجفية والمعافرة ومعالماته	and a state of the state of the state	الأنبية المالية المسالة	Marker Delta	
-60.0	enderse aleganetienen behandet bei	an a	in the species in the trajectory of the trajectory of the species			e fan de lien, en plitteleken kinne skon	and pre-print provide	Mkr→CF	
-70.0								Mkr→Ref Lvl	
Start 9 kHz #Res BW 1.0 M		A lan 31 2023	Wideo BW 3.0 MH	z* :e Noise Floor re		veep ~4.01 s	1.9290 GHz (4001 pts)	Continuous Peak Search On Off	



Spectrum A Swept SA		Spectrum Analyzer 5 Swept SA	5 Spectrum An Channel Pov		rum Analyzer 7 nel Power	•+ •	Frequenc	y y 误
KEYSIGHT	Input: RF Coupling: DC Align: Auto	Corrections: Off Freq Ref: Int (S)		Gate: LO Ave	nter Freq: 1.9965000 g Hold: 10/10 dio Std: None	00 GHz	Center Frequency 1.996500000 GHz	Settings
1 Graph Scale/Div 10.0	v		ef Lvi Offset 44.50 ef Value 10.00 dBm				Span 2.0000 MHz	
Log 0.00 -10.0 -20.0 -30.0 -40.0 -50.0			l l l l l l l l l l l l l l l l l l l		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		CF Step 200.000 kHz Auto Man Freq Offset 0 Hz	
-60.0 -70.0 -80.0 Center 1.9965 #Res BW 10.0		#V	Video BW 30.000 kł	Hz*	#Sweep 1.00	Span 2 MHz) s (1001 pts)		
2 Metrics Total Chann Total Power	el Power Spectral Densi	-29.18 dBm / 1.00 l ty -89.18 dBm Jan 31, 2023 3:36:13 PM	m/Hz	ze Noise Floor require	a 📑 🏹			



TEST REPORT

Spectrum A Swept SA	nalyzer 1	Spectrum Analyzer Swept SA	2 Spectrum / Swept SA	Analyzer 3	Spectrum Analyz Swept SA		Marker	- * ※
KEYSIGHT ↔	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 20 dB Preamp: Off µW Path: Standard	PNO: Fast Gate: LO IF Gain: Low Sig Track: Off	Avg Type: Pow Trig: External 1	er (RMS) 1 2 3 4 5 6 W W W W W A N N N N N	Select Marker Marker 1	,
1 Spectrum	•		Ref LvI Offset 35.0		Mkr1	19.518 0 GHz	Marker Frequency 19.518000000 GHz	Settings
Scale/Div 10 d	IB		Ref Level 10.00 dE	im 🛛		-42.32 dBm	Peak Search	Peak Search
0.00							Next Peak	Pk Search Config
10.0							Next Pk Right	Properties
-20.0							Next Pk Left	Marker Function
-40.0						1	Minimum Peak	Marker→
-50.0	and the second		ورواد والمعادة والمحاصر والمعاد	and the second second		and the second	Pk-Pk Search	Counter
60.0							Marker Delta	
.70.0							Mkr→CF	
-80.0							Mkr→Ref Lvl	
Start 13.000 G #Res BW 1.0 N			#Video BW 3.0 M	Hz*	#Sweep	Stop 20.000 GHz o ~14.0 s (14001 pts)	On	
		Peb 01, 2023 12:16:05 PM	Characte	rize Noise Floor	required		Off	

Antenna Port	Channel Position	Modulation	Carrier BW (MHz)	RBW (kHz)	Limit (dBm)
D	В	256QAM	40	1000	-19.02
D	М	256QAM	40	1000	-19.02
D	Т	256QAM	40	1000	-19.02

Channel Position B

Spectrum Ar Swept SA		Spectrum Analyzer 2 Swept SA	Swept SA		Spectrum Analyzer Swept SA		Marker	· 7 ※
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 Gate: LO IF Gain: Low Sig Track: Off	Avg Type: Power (Trig: External 1	RMS) 12 3 4 5 6 W WWWWW A N N N N N	Select Marker Marker 1	
1 Spectrum	•	R	ef LvI Offset 42.7	3 dB	Mkr1	1.929 0 GHz	Marker Frequency 1.929000000 GHz	Settings
Scale/Div 10 d	3	R	ef Level 20.00 dB	m		-10.21 dBm	Peak Search	Peak Search
10.0							Next Peak	Pk Search Config
0.00						1/	Next Pk Right	Properties
-10.0						````````````````````````````````	Next Pk Left	Marker Function
-30.0							Minimum Peak	Marker→
-40.0							Pk-Pk Search	Counter
-50.0			er felse in eller felsen inder eler	استعاد النالي		الم المديني الم المديني الم المدينية في المارين المدينية المارين	Marker Delta	
-60.0	na Lydroddorgfor of th	aller van set fakteren ster en seelen het het de seelen het.					Mkr→CF	
-70.0							Mkr→Ref Lvl	
Start 9 kHz #Res BW 1.0 M	IHz	A lan 31 2023	#Video BW 3.0 MI			Stop 1.9290 GHz ~4.01 s (4001 pts)		
		3:39:22 PM		ize Noise Floor	required			

Spectrum Ar Swept SA	nalyzer 4	Spectrum Analyzer 5 Swept SA	Spectrum Channel	Analyzer 6 Power	Spectrum A Channel Po		+	Marke	n v 🛞
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: Standa	PNO: Fast Gate: LO rd IF Gain: Low Sig Track; Off	Avg Type Trig: Exte	ernal 1	123456 WWWWWW ANNNNN	Select Marker Marker 1	
1 Graph	•	R	ef LvI Offset 42.	.73 dB				Marker Frequency 1.929000000 GHz	Settings
Scale/Div 10.0	dB	R	ef Value 20.00 d	IBm				Peak Search	Peak Search
10.0 0.00								Next Peak	Pk Search Config
-10.0								Next Pk Right	Properties
-30.0								Next Pk Left	Marker Function
-50.0	~	~**************************************	╋╬╍╬╍╣╊╍╌╬	มูมักตรักมีทา ¹ ได้รัฐ _ก ะสะบรุษภัณฑ์รัสที่สะ	Marine and a start	hineyelikar ^a layalpalanyalaranya	∼uP~d,wt^vtyk-styk	Minimum Peak	Marker→
-70.0								Pk-Pk Search	Counter
Center 1.92850 #Res BW 10.00		*	Video BW 30.00	0 kHz*	•	#Sweep 1.00	Span 2 MHz s (1001 pts)	Marker Delta	
2 Metrics								Mkr→CF	
Total Channe	el Power	-26.07 dBm / 1.00	MHz					Mkr→Ref Lvl	
Total Power	Spectral Densi	ty -86.07 dB	m/Hz					Continuous Peak Search On	
		? Jan 31, 2023 3:40:53 PM		erize Noise Floor	r required			Off	

Spectru Swept S	m Analyzer 1 SA	Spectrum Analyzer 2 Swept SA	Spectrum Analyz Swept SA	Swep		+	Marker	- 7 😤
KEYSIG ↔	HT Input: RF Coupling: DC Align: Auto	Corrections: Off	Preamp: Off Gate µW Path: Standard IF Ga	LO INC	g Type: Power (RN g: External 1	AS) 1 2 3 4 5 6 W W W W W A N N N N N	Select Marker Marker 1	
1 Spectrum	V	Re	ef Lvi Offset 44.50 dB			.996 0 GHz -28.59 dBm	Marker Frequency 1.996000000 GHz	Settings
Scale/Div 1	10 dB	Re	ef Level 30.00 dBm			-20.59 UBIII	Peak Search	Peak Search
20.0							Next Peak	Pk Search Config
10.0							Next Pk Right	Properties
-10.0							Next Pk Left	Marker Function
-20.0							Minimum Peak	Marker→
-30.0							Pk-Pk Search	Counter
-40.0			<u> </u>				Marker Delta	
-50.0				and the second sec	and and a state of the second de		Mkr→CF	
-60.0							Mkr→Ref Lvl	
Start 1.996 #Res BW 1		# ? Jan 31, 2023 3:43:07 PM	#Video BW 3.0 MHz*	Dise Floor require	#Sweep ~8	Stop 6.000 GHz .21 s (8201 pts)	Continuous Peak Search On Off	

Spectrum Al Swept SA	·	Spectrum / Swept SA		Spect Swept	um Analy. SA	zer 3	Sv	ectrum Ana vept SA		+		Marker	- * 影
KEYSIGHT	Input: RF Coupling: DC Align: Auto	Input Z: Correcti Freq Re NFE: Ac	ons: Off f: Int (S)	#Atten: 20 dB Preamp: Off µW Path: Sta	Gate Indard IF G): Fast e: LO ain: Low Track: Off		Avg Type: Po Trig: Externa	ower (RMS I 1	i) <mark>1</mark> 2 3 4 5 6 WWWWWW A N N N N N	Select Ma Marker 1	rker	
Lva 1 Spectrum			R	ef Lvi Offset	12.08 dB			Mk		877 0 GHz	Marker Fr 10.87700	equency 0000 GHz	Settings
Scale/Div 10 d	B		R	ef Level 10.0	0 dBm				-6	4.53 dBm	Peak	Search	Peak Search
0.00											Ne	t Peak	Pk Search Config
-10.0											Next	Pk Right	Properties
-20.0											Next	: Pk Left	Marker Function
-40.0											Minim	um Peak	Marker→
-50.0											Pk-P	k Search	Counter
-60.0							_	1			Mark	er Delta	
-70.0	مەسىر الارساس	بلر الر الم	×.	يني سار سالم	المريطاني	ر الم	-	بالعلور العرب الم	人人	and the second sec	Mk	r→CF	
-80.0												→Ref Lvl	
Start 6.000 GH #Res BW 1.0 M			1, 2023 43 AM	#Video BW 3	.0 MHz* acterize N	loise Flo	or req		ep ~14.0	op 13.000 GHz s (14001 pts)	Continuou Search On Off	is Peak	

Spectrum Al Swept SA		Spectrum Swept SA	Analyzer 2	Spect Swept	rum Analyze SA		pectrum Ana wept SA		•+ •	Marker	- * 景
	Input: RF Coupling: DC Align: Auto		ions: Off ef: Int (S)	#Atten: 20 dB Preamp: Off μW Path: Sta	Gate: I ndard IF Gair	_0	Avg Type: Po Trig: Externa	ower (RMS) al 1	123456 WWWWWW ANNNN	Select Marker Marker 1	•
1 Spectrum	•		Re	f LvI Offset	35.00 dB		Mk		25 0 GHz 2.68 dBm	Marker Frequency 19.525000000 GHz	Settings
Scale/Div 10 d	B		Re	f Level 10.0	U dBm			-4,	2.00 UDIII	Peak Search	Peak Search
0.00										Next Peak	Pk Search Config
-10.0										Next Pk Right	Properties
-20.0										Next Pk Left	Marker Function
-40.0									1	Minimum Peak	Marker→
-50.0	man man	and the second second	and the particular spectrum street spectrum spectrum spectrum spectrum spectrum spectrum spectrum spectrum spe			en la datein die	, iluis si iline si il		and the second data and the se	Pk-Pk Search	Counter
-60.0										Marker Delta	
-70.0										Mkr→CF	
-80.0										Mkr→Ref Lvl	
Start 13.000 GI #Res BW 1.0 M		Ech 0	#	Video BW 3				ep ~14.0	o 20.000 GHz s (14001 pts)		
			:24 PM		acterize Noi	se Floor red	quired				



Channel Position M

	ectrum A vept SA	nalyzer 1	Spectrum Analyzer Swept SA	2 Spectrum A Swept SA		Spectrum Analyzer 4 Swept SA	+	Marker	▼ ^{**} / _*
KEY	'SIGHT ↔	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: LO I IF Gain: Low Sig Track: Off	Avg Type: Power (RM Trig: External 1	5) 1 2 3 4 5 6 WWWWWW A N N N N N	Select Marker Marker 1	
1 Spe Scale	ctrum e/Div 10 d	, B		Ref LvI Offset 42.7 Ref Level 20.00 dB			929 0 GHz 26.42 dBm	Marker Frequency 1.929000000 GHz	Settings Peak
Log				Ť				Peak Search	Search Pk Search
10.0 0.00								Next Peak	Config
-10.0								Next Pk Right	Properties
-20.0							1	Next Pk Left	Marker Function
-30.0							<u>`</u>	Minimum Peak	Marker→
-40.0								Pk-Pk Search	Counter
-50.0			ر. مۇلىلىرىرىلىرىدى ئەرەر بىرىدىرىلىرىرى	Lands Lands II is filled in the		والمناطر والمتحاد والمتحاد والمتحال والمحاجر	international and	Marker Delta	
-60.0	Malandari Malandari	and the second						Mkr→CF	
-70.0								Mkr→Ref Lvl	
Start #Res	9 kHz BW 1.0 N	١Hz		#Video BW 3.0 M	Hz*		op 1.9290 GHz)1 s (4001 pts)		
	5		Jan 31, 2023 3:46:29 PM		rize Noise Floor re	equired			

Spectrum Ar Swept SA	nalyzer 1	Spectrum Analyzer 2 Swept SA	Spectru Swept	um Analyzer: SA	Sw	ectrum Analyz ⁄ept SA		+	‡	Marker	- * 器
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: Stan	PNO: Fa Gate: LC dard IF Gain: Sig Trac	Low	Avg Type: Powe Trig: External 1	Ň	1 2 3 4 5 6 V WW WW W A N N N N N	Select M Marker 1		
1 Spectrum	•		ef Lvi Offset 4			Mkr		6 0 GHz		requency 00000 GHz	Settings
Scale/Div 10 d	B	R	ef Level 30.00) dBm			-25	.58 dBm	Pea	ak Search	Peak Search
20.0									Ne	ext Peak	Pk Search Config
10.0									Nex	t Pk Right	Properties
-10.0									Ne	xt Pk Left	Marker Function
-20.0 c 1									Mini	mum Peak	Marker→
-30.0									Pk-I	Pk Search	Counter
-40.0			A						Mai	rker Delta	
-50.0	an an tha an			and the second designed and the second designed and the second designed and the second designed and the second	and the second	alitic made and a state of the second	and the second second	wether wether	N	lkr→CF	
-60.0										′→Ref Lvl	
Start 1.996 GH #Res BW 1.0 N		‡	∜Video BW 3.	0 MHz*		#Swee		o 6.000 GHz s (8201 pts)	Search On	ous Peak	
15		? Jan 31, 2023 3:48:20 PM		acterize Noise	e Floor requ	uired			Off		

Spectrum Ana Swept SA	alyzer 1	Spectrum A Swept SA	nalyzer 2	Spect	rum Analyz t SA	er 3	Swe	ctrum Ana pt SA		+ >	\$	Marker	- * 崇
	nput: RF Coupling: DC Align: Auto	Input Z: 5 Correctio Freq Ref NFE: Ada	ns: Off : Int (S)	#Atten: 20 dE Preamp: Off µW Path: Sta	Gate ndard IF G		A T	vg Type: Po rig: Externa	ower (RM al 1	S) 12 3 4 5 6 W WWWWW A N N N N N	Select Mar Marker 1	rker	
1 Spectrum	•		R	ef Lvi Offset	12.08 dB	ruck. On		М		.027 0 GHz	Marker Fr 6.027000		Settings
Scale/Div 10 dB	;		R	ef Level 10.0	0 dBm				-	64.90 dBm	Peak	Search	Peak Search
0.00											Nex	t Peak	Pk Search Config
-10.0											Next	Pk Right	Properties
-20.0											Next	Pk Left	Marker Function
-40.0											Minim	um Peak	Marker→
-50.0											Pk-Pł	< Search	Counter
-60.0											Mark	er Delta	
-70.0	مسالمتوساتهما		m.A.	المريداني	-		~	يالمني أمغني	×,×	يسطور يتعطم وسلطنون	Mk	r→CF	
-80.0												→Ref Lvl	
Start 6.000 GHz #Res BW 1.0 MH		? Feb 01 9:25:4	, 2023	#Video BW 3	.0 MHz*	oise Flor	or requi		ep ~14.	op 13.000 GHz 0 s (14001 pts)	Continuou Search On Off	is Peak	

KEYSIGHT Input Z: 50 0. Corrections. Off Align. Auto Input Z: 50 0. Freq. Ref. Int (5). NFE: Adaptive #Atten: 20 dB Preamp. Off July Path: Standard III (S). IF Gant. Low Sig Track: Off Avg Type: Power (RMS) 1 2 3 4 5 6. Trg: External 1 Select Marker Marker 1 Select Marker Marker 1 1 Spectrum Ref Lvt Offset 35.00 dB Ref Level 10.00 dBm Ref Lvt Offset 35.00 dB Ref Level 10.00 dBm Mkr1 19.284 5 GHz 9.284500000 GHz Select Marker Marker 1 Select Marker Marker 1 200 No Ref Lvt Offset 35.00 dB Ref Level 10.00 dBm Mkr1 19.284 5 GHz 9.284500000 GHz Peak Search Peak Search 100 No No Next Peak Preak Search Peak Search 200 No Next Peak Propertiles 300 No Next Pk Right Propertiles 400 Next Pk Right Propertiles Next Pk Search 700 No Next Pk Search Marker Peak 800 No No No Marker Delta Marker Delta NkrRef LVI Continuous Peak Marker Peak 800 Wideo BW 3.0 MHz* Stop 20.000 GHz Stop 20.000 GHz	Spectrum A Swept SA	nalyzer 1	Spectrum Swept SA	Analyzer 2	Spectr Swept	um Analyze SA		pectrum Anal wept SA	·	• + •	Mark	er v 🔆
I Spectrum Ref Lvl Offset 35.00 dB Mkr1 19.284 5 GHz Marker Frequency Settings Scale/Div 10 dB Ref Level 10.00 dBm -42.57 dBm Peak Search Peak Search 0.00 Next Peak Peak Search Next Peak Peak Search 0.00 Next Peak Peak Search Next Peak Peak Search 0.00 Next Peak Next Peak Peak Search Next Peak 0.00 Next Peak Next Peak Next Peak Next Peak 0.00 Next Peak Next Peak Next Peak Next Peak 0.00 Next Peak Next Peak Next Peak Next Peak 0.00 Next Pk Left Marker Punction 0.00 Next Peak Next Peak Next Peak 0.00 Next Pk Left Marker Output 0.00 Next Peak Next Peak Next Peak 0.00 Next Peak	•	Coupling: DC	Correct Freq Re	ions: Off ef: Int (S)	Preamp: Off	Gate: I ndard IF Gai	LO n: Low	Avg Type: Po Trig: Externa	ower (RMS) il 1	₩₩₩₩₩₩	Marker 1	•
Log Peak Search Search 0.00 Next Peak Properties 1.00 Next Pk Right Properties 2.00 Next Pk Right Marker 3.00 Next Pk Right Marker 4.00 Next Pk Right Marker 5.00 Next Pk Left Marker 5.00 Next Pk Search Counter Marker- Next Pk Search Counter Marker Marker Counter Marker Marker Counter Mkr->CF Mkr->CF Mkr->Ref Lvl Start 13.000 GHz #Video BW 3.0 MHz* Stop 20.000 GHz Stop 20.000 GHz	1 Spectrum	T		Re		35.00 dB		Mk				z
0.00		ю		Re	Level 10.0	U UBIII			,		Peak Search	
20.0 Next Pk Right Properties 30.0 1 Marker 40.0 1 Marker 50.0 1 Marker 50.0 1 Marker 60.0 1 Marker 80.0 Marker Marker 70.0 Marker Marker 80.0 Mkr→CF Mkr→CF Mkr→Ref Lvl Continuous Peak Stop 20.000 GHz											Next Peak	
300 1 Next Pk Left Marker 300 1 1 Minimum Peak Marker 500 1 1 Minimum Peak Marker 600 1 1 Marker Counter 800 400 400 400 400 400 400 500 1 1 1 Marker 400											Next Pk Right	Properties
-40.0 -40.0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Next Pk Left</td><td></td></t<>											Next Pk Left	
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-60 0 -70.0 -80.0 -	-50.0	, and the second second	and the second second	ant and a strength of the stre	مر المراجع الم	and the second second	a	a di kana di ka	lasa di kana seri d		Pk-Pk Search	Counter
-100 -80 0 -80	-60.0										Marker Delta	
Start 13.000 GHz #Video BW 3.0 MHz* Stop 20.000 GHz Search	-70.0										Mkr→CF	
Start 13.000 GHz #Video BW 3.0 MHz* Stop 20.000 GHz Search	-80.0										Mkr→Ref Lvi	
#Res BW 1.0 MHz #Sweep ~14.0 s (14001 pts) Image: State of the s				1, 2023	~ ^		ise Floor re		ep ~14.0		Search On	

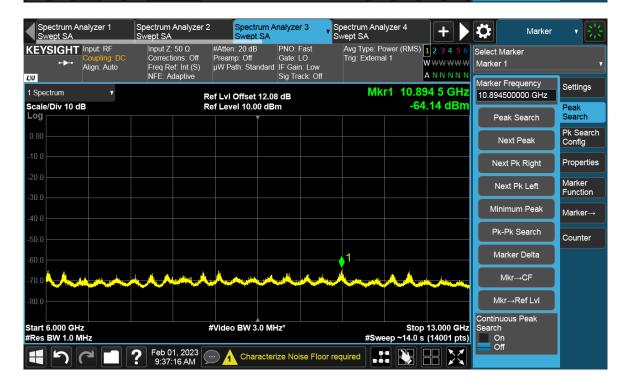
TEST REPORT

Channel Position T

Spectrum Al Swept SA		Spectrum Analyzer Swept SA	2 Spectrum A Swept SA	Analyzer 3	Spectrum Ana Swept SA		+	Marker	• 影
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 Gate: LO I IF Gain: Low Sig Track; Off	Avg Type: P Trig: Externa	ower (RMS) al 1	123456 W\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Select Marker Marker 1	
1 Spectrum	•		Ref LvI Offset 42.7	3 dB	M		28 5 GHz	Marker Frequency 1.928517752 GHz	Settings
Scale/Div 10 d	B		Ref Level 20.00 dB	im		-2:	9.23 dBm	Peak Search	Peak Search
10.0								Next Peak	Pk Search Config
0.00								Next Pk Right	Properties
-10.0								Next Pk Left	Marker Function
-20.0							1	Minimum Peak	Marker→
-40.0								Pk-Pk Search	Counter
-50.0					a de a constante de la decidad de la deci	والمتعادية والمتعادية	الله المحمد المعادية عامدة	Marker Delta	
-60.0	han in ining a sport	ومغوا والمغارفة ويراغ والمنتجب ومروافا ورائكم	ye ya <mark>Manana Manana ana ana kana kana kana kan</mark>	ike to konstant in the second first				Mkr→CF	
-70.0								Mkr→Ref Lvl	
Start 9 kHz #Res BW 1.0 N		? Jan 31, 2023 3:51:29 PM	#Video BW 3.0 Mi	Hz* rize Noise Floor r		veep ~4.01	1.9290 GHz s (4001 pts)	Continuous Peak Search On Off	



Spectrum A Swept SA		Spectrum Analyzer 5 Swept SA	Spectrum Analyzer 6 Channel Power	Spectrum Analyzer 7 Channel Power	+	Frequency	▼爰
KÉYSIGHT ↔	Input: RF Coupling: DC Align: Auto	Corrections: Off P Freq Ref: Int (S)	Atten: 20 dB Trig: Exter Preamp: Off Gate: LO W Path: Standard #IF Gain: PNO: Fast	Avg Hold: 9/10	GHz	Center Frequency 1.996500000 GHz	Settings
1 Graph Scale/Div 10.0	v dB		Lvi Offset 44.50 dB Value 10.00 dBm			Span 2.0000 MHz	
Log 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0				мунал-араранандар, каранар, к	at a constant	CF Step 200.000 kHz Auto Man Freq Offset 0 Hz	
-80.0 Center 1.9965 #Res BW 10.0 2 Metrics		#Vic	deo BW 30.000 kHz*	\$ #Sweep 1.00 s	Span 2 MHz : (1001 pts)		
Total Chann Total Power	el Power Spectral Densi	-27.34 dBm / 1.00 M +y -87.34 dBm/ 2 Jan 31, 2023		Floor required			



TEST REPORT

Spectrum A Swept SA	nalyzer 1	Spectrum Swept SA	Analyzer 2	Spectr Swept	um Analyze SA		Spectrum Ana Swept SA	·	• +)	Marker	▼影
KEYSIGHT ↔	Input: RF Coupling: DC Align: Auto		ions: Off ef: Int (S)	#Atten: 20 dB Preamp: Off μW Path: Sta		LO	Avg Type: Po Trig: Externa	11	123456 W\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Select Marker Marker 1	
1 Spectrum Scale/Div 10 o	- - -		Re	f LvI Offset f Level 10.0	35.00 dB		Mk		40 5 GHz 2.85 dBm	Marker Frequency 19.540500000 GHz	Settings Peak
Log			Re	Level 10.0	UBIII					Peak Search	Search
0.00										Next Peak	Pk Search Config
-10.0										Next Pk Right	Properties
-20.0										Next Pk Left	Marker Function
-40.0									1	Minimum Peak	Marker→
-50.0	مەمىيەتىيەتىمى		an an an Antonia an Antonia	and the second second	and a superior of the	a na shi na shi n	and the start of the start of the	فليتجو ملها فتريتهم	-	Pk-Pk Search	Counter
-60.0										Marker Delta	
-70.0										Mkr→CF	
-80.0										Mkr→Ref Lvl	
Start 13.000 G #Res BW 1.0 I			#	Video BW 3	.0 MHz*		#Swe		20.000 GHz (14001 pts)	Continuous Peak Search On Off	
1			1, 2023 :12 PM 💭		acterize No	ise Floor re	equired				

NR-2C

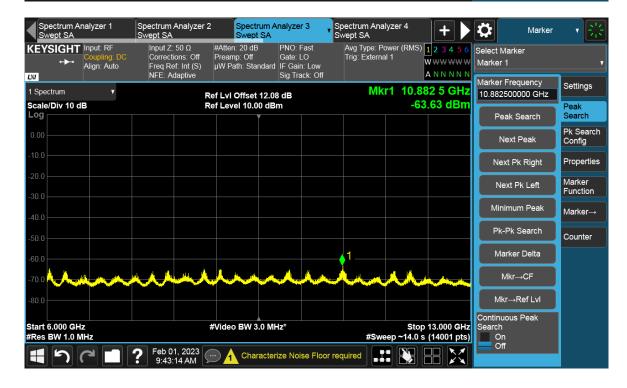
Antenna Port	Channel Position	Modulation	Carrier BW (MHz)	RBW (kHz)	Limit (dBm)
D	М	256QAM	25	1000	-19.02

	Spectrum Ar Swept SA	nalyzer 1	Spectrum Analyze Swept SA	r 2 Spectrum Swept SA		Spectrum Analyzer 4 Swept SA	+	Marker	- * 崇
KE	YSIGHT	Input: RF	Input Z: 50 Ω	#Atten: 10 dB	PNO: Fast	Avg Type: Power (R	MS) 123456	Select Marker	
	•••	Coupling: DC Align: Auto	Corrections: Off Freg Ref: Int (S)	Preamp: Off µW Path: Standard	Gate: LO 1 IF Gain: Low	Trig: External 1	₩₩₩₩₩₩	Marker 1	•
L)A			NFE: Adaptive		Sig Track: Off	ANNNN			
	pectrum	•		Ref LvI Offset 42.7		Mkr1 1.929 0 GHz		Marker Frequency 1.929000000 GHz	Settings
	ile/Div 10 d	В		Ref Level 20.00 de	3m		-9.36 dBm		Peak
Lo	g			Ť				Peak Search	Search
10.	0							Next Peak	Pk Search Config
0.0	0						1	Next Pk Right	Properties
-10. -20.								Next Pk Left	Marker Function
-20.								Minimum Peak	Marker→
-40.	0							Pk-Pk Search	Counter
-50.	0			souli de constant provinsion de la constant		والاورة إذارة والانتقاف والمرور والمروم ومراوعهم	يرالې الارتيان د الارتيان د المعد الله	Marker Delta	
-60.	0	an in the second se	in the second					Mkr→CF	
-70.								Mkr→Ref Lvl	
								Continuous Peak	
	rt9 kHz sBW 1.0 M	H 7		#Video BW 3.0 M	Hz*		Stop 1.9290 GHz .01 s (4001 pts)	Search On	
wike			a 1 04, 0000					Off	
E	5		? Jan 31, 2023 4:00:23 PM		rize Noise Floor n	equired			

m Analyzer : SA		oectrum A wept SA	nalyzer 4	Spectrum A Swept SA	nalyzer 5	Spectrum Channel F	Power		Spectru Channe	+		Marker	- * 😹
KEYSIGHT ↔→	Input: RF Coupling: Align: Auto	DC o	Input Ζ: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 10 Preamp: C µW Path: :	off Gate: Standard IF Ga	LO	Avg Typ Trig: Ex	oe: Power dernal 1		3456 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Select Markei		
1 Graph	•				set 42.73 dB							r Frequency 000000 GHz	Settings
Scale/Div 10.0	dB			Ref Value 2	0.00 dBm						P	eak Search	Peak Search
0.00												Next Peak	Pk Search Config
-10.0											Ne	ext Pk Right	Properties
-30.0					after to the state of the state				A Aserstanting Area		N	lext Pk Left	Marker Function
-50.0		*********************	and a stand of the		alar Crano and and and		and the family of	and a second data	ny nangunin na priva		Mi	nimum Peak	Marker→
-60.0 -70.0											Pł	-Pk Search	Counter
Center 1.92850 #Res BW 10.00			•	#Video BW	30.000 kHz*		•	#Swee		an 2 MHz 1001 pts)	м	larker Delta	
2 Metrics	٧											Mkr→CF	
Total Chann	el Power	÷	23.44 dBm / 1.0	00 MHz								kr→Ref Lvl	
Total Power Spectral Density -83.44 dBm/Hz											Contin Search O		
	2]?	Jan 31, 2023 4:02:18 PM		haracterize No	ise Floor red	quired				- o		

	Spectrum A Swept SA	nalyzer 1	Spectrum Swept SA	Analyzer 2	Spect Swept	rum Analyze : SA		pectrum Ana wept SA		+	*	Marker	- * 影
KE	YSIGHT ↔	Input: RF Coupling: DC Align: Auto		ions: Off ef: Int (S)	#Atten: 10 dE Preamp: Off µW Path: Sta	Gate: I ndard IF Gai	LO	Avg Type: P Trig: Extern	Power (RM: al 1	5) 1 2 3 4 5 6 WWWWWW A N N N N N	Select Mar Marker 1	rker	
1 S	pectrum	7		Re	ef LvI Offset	44.50 dB		M		996 0 GHz -9.11 dBm	Marker Fr 1.996000		Settings
Lo	ale/Div 10 d g			R	ef Level 30.0	U abm				-9. IT UDIII	Peak	Search	Peak Search
20											Nex	t Peak	Pk Search Config
10											Next	Pk Right	Properties
0.0 -10	1										Next	Pk Left	Marker Function
-20	.0										Minim	um Peak	Marker→
-30	.0										Pk-Pł	< Search	Counter
-40	.0				Ň						Mark	er Delta	
-50	.0 Uninternet		lan dan kalan	hin telepid.	Same and the second	and the subscription of th	and the second second	فيشتله المسلمية الملاحدة	And the second diversion of th	No. of the owner owner owner owner owner owner	Mk	r→CF	
-60												→Ref Lvl	
	rt 1.996 GH es BW 1.0 M			#	∜Video BW 3	.0 MHz*		#Sv		top 6.000 GHz 21 s (8201 pts)	On	ıs Peak	
	1			1, 2023 59 PM		acterize Noi	se Floor re	quired			Off		

Spectrum Analyzer 4 Swept SA	Spectrum Analyzer 5 Swept SA		ctrum Analyzer 7	Frequency	· · · 迷
KEYSIGHT Input: RF Coupling: DC Align: Auto	Corrections: Off Prear Freq Ref: Int (S) µW P	np:Off Gate:LO A	enter Freq: 1.996500000 GHz vg Hold: 2/10 adio Std: None	Center Frequency 1.996500000 GHz	Settings
1 Graph v Scale/Div 10.0 dB		Offset 44.50 dB ue 10.00 dBm		Span 2.0000 MHz CF Step	
Log 0.00 -10.0 -20.0				200.000 kHz Auto Man	
-30.0	ระชุรายางการกระหรับราย	astrinalitation (mainly appendix for the	dreaded to the big on production of the second s	Freq Offset 0 Hz	
-60.0 -70.0 -80.0					
Center 1.996500 GHz #Res BW 10.000 kHz 2 Metrics	#Video	BW 30.000 kHz*	Span 2 M #Sweep 1.00 s(1001 p		
Total Channel Power Total Power Spectral De	·			2	
1 5 7 1	2 Jan 31, 2023	Characterize Noise Floor requir	red 💶 💽 🕂		



intertek

Total Quality. Assured.

Spectrum A Swept SA	nalyzer 1	Spectrum Swept SA	Analyzer 2	Spectrun Swept S/	n Analyzer 3 A	Swep	trum Analyzer 4 pt SA	· +)	Marker	マ器
KEYSIGHT	Input: RF Coupling: DC Align: Auto	Input Z: Correcti Freq Re NFE: A	ions: Off ef: Int (S)	#Atten: 20 dΒ Preamp: Off μW Path: Standa	PNO: Fast Gate: LO ard IF Gain: Lo Sig Track: 0	w	/g Type: Power (RM ig: External 1	S) 1 2 3 4 5 6 WWWWWW A N N N N N	Select Marker Marker 1	
1 Spectrum			Re	f Lvi Offset 35	.00 dB	211		.835 5 GHz	Marker Frequency 18.835500000 GHz	Settings
Scale/Div 10 d	IB		Re	f Level 10.00 o	iBm			42.42 dBm	Peak Search	Peak Search
0.00									Next Peak	Pk Search Config
-10.0									Next Pk Right	Properties
-20.0									Next Pk Left	Marker Function
-40.0									Minimum Peak	Marker→
-50.0	and the second	and the state of the state			and the second designed designed designed designed designed and the second designed designed designed designed	والمتر ومعاولة المراجعة			Pk-Pk Search	Counter
-60.0									Marker Delta	
-70.0									Mkr→CF	
-80.0									Mkr→Ref Lvl	
Start 13.000 G #Res BW 1.0 M			# 1, 2023	Video BW 3.0	MHz*	loor requir	#Sweep ~14.	top 20.000 GHz 0 s (14001 pts)	Continuous Peak Search On Off	

Antenna Port	Channel Position	Modulation	Carrier BW (MHz)	RBW (kHz)	Limit (dBm)
D	М	256QAM	30	1000	-19.02

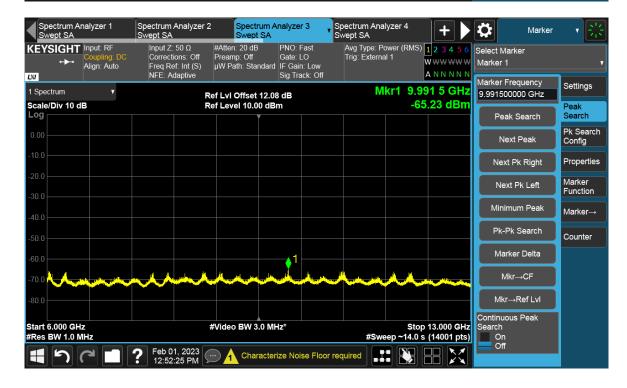
Channel Position M



Spectrum Al Swept SA	nalyzer 4	Spectrum Analyzer & Swept SA		rum Analyzer 6 nel Power	Channe		+	Marker	- 米
KÉYSIGHT ↔	Input: RF Coupling: DC Align: Auto	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S) NFE: Adaptive	#Atten: 10 dE Preamp: Off µW Path: Sta	B PNO: Fas Gate: LO IF Gain: L Sig Track:	ow Irig: t	ype: Power (RN External 1	AS) 123456 WWWWWW ANNNNN	Select Marker Marker 1	
1 Graph	•	F	ef Lvl Offset	42.73 dB				Marker Frequency 1.996000000 GHz	Settings
Scale/Div 10.0	dB	⊼	ef Value 20.0	00 dBm				Peak Search	Peak Search
0.00								Next Peak	Pk Search Config
-10.0								Next Pk Right	Properties
-30.0								Next Pk Left	Marker Function
-50.0	e ⁿ an san dara kanalaria	ph/happy.ph/happy.abuve.hap	ሲማቀሳራዊ ^ው የተመለከ <mark>ያ</mark> መህ	h, av a _ tealanteanteanteanteanteanteanteanteanteante	Maril Aufline and M	aletharmore a la statema	under-ander kyllinder viel der an der einer der eine	Minimum Peak	Marker→
-60.0								Pk-Pk Search	Counter
Center 1.92850 #Res BW 10.00			Video BW 30	.000 kHz*		#Sweep 1	Span 2 MHz .00 s (1001 pts)	Marker Delta	
2 Metrics								Mkr→CF	
Total Channe	el Power	-23.17 dBm / 1.00	MHz					Mkr→Ref Lvl	
Total Power	Spectral Densit	y -83.17 dB	m/Hz					Continuous Peak Search On	
		2 Jan 31, 2023 4:15:10 PM		racterize Noise	Floor required			Off	



Spectrum A Swept SA		Spectrum Analyzer 5 Swept SA	Channel P		Spectrum Ana Channel Pow		+	*	Frequency	- 7 崇
KEYSIGHT	Input: RF Coupling: DC Align: Auto	Corrections: Off Freq Ref: Int (S)	Atten: 20 dB Preamp: Off μW Path: Standarc #PNO: Fast	Trig: External 1 Gate: LO #IF Gain: Low	Center Freq Avg Hold: 2 Radio Std: 1		GHz	Center Fre 1.9965000	<u> </u>	Settings
1 Graph Scale/Div 10.0	, dB		ef LvI Offset 44.5 ef Value 10.00 dE					Span _2.0000 Mł	Ηz	
Log 0.00 -10.0								CF Step 200.000 k	Hz	
-20.0								Man Freq Offse 0 Hz	t	
-40.0 Juni-analyti -50.0 -60.0	halimin hoherdrawinika	helper of the second	Yatariyadiyadada yatariya	₽°°÷Jær≠l¥jk/≈ _v ≉r†sistur°i _d	ende bernalderan	hydroen an gened	ntant h rananta			
-70.0										
Center 1.9965 #Res BW 10.0		#V	/ideo BW 30.000	KHZ^	#\$	sweep 1.00 s	pan 2 MHz (1001 pts)			
2 Metrics Total Chann Total Power	▼ el Power Spectral Dens	-23.85 dBm / 1.00 M ity -83.85 dBm								
4 5		? Jan 31, 2023		ize Noise Floor r	required		88			



Spectrum A Swept SA	nalyzer 1	Spectrum Swept SA	Analyzer 2	Spectr Swept	um Analyze SA	er 3	Spectrum Ana Swept SA		•+ •	₽	Marker	- * 崇
KEYSIGHT	Input: RF Coupling: DC Align: Auto		ions: Off ef: Int (S)	#Atten: 20 dB Preamp: Off µW Path: Star	Gate: ndard IF Gai	LO	Avg Type: P Trig: Extern	Power (RMS al 1) <mark>1</mark> 2 3 4 5 6 W W W W W A N N N N N	Select Marke Marker 1	ər	
LXI 1 Spectrum	*		R	ef Lvi Offset	35.00 dB		Mk		322 5 GHz	Marker Fred 18.8225000		Settings
Scale/Div 10 d	IB		R	ef Level 10.0	0 dBm			-4	2.06 dBm	Peak S	earch	Peak Search
0.00										Next I	Peak	Pk Search Config
-10.0										Next Pł	Right	Properties
-20.0										Next P	k Left	Marker Function
-40.0								1_		Minimur	n Peak	Marker→
-50.0	-	alesta and and	etal galista galis	ور بالمربية المربية	ال _{غورة و} الأواريد الت		ite but the second	a la dinatan		Pk-Pk S	Search	Counter
-60.0										Marker	Delta	
-70.0										Mkr–	→CF	
-80.0										Mkr→F	Ref Lvl	
Start 13.000 G #Res BW 1.0 M			1 2023	≠Video BW 3	.0 MHz* acterize No	ise Floor		eep ~14.0	p 20.000 GHz s (14001 pts)	Continuous Search On Off	Peak	



7 Frequency Stability

Test result: Tested

7.1 Limit

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

7.2 Measurement Procedure

Temperature Variation

The EUT was tested over the temperature range -30°C to +50°C in 10°C steps with -48 VDC Power Supply. At each temperature step, the Base Station was configured to transmit at maximum power on the middle channel of the operating band.

Voltage Variation

The EUT was tested at the supplied voltages varied from 85 to 115 percent of the nominal values of -48 VDC. At +20°C, the Base Station was configured to transmit at maximum power on the middle channel of the frequency block.



7.3 Measurement result

Frequency Error – Temperature Variation

NR-1C	Channel	Bandwidth:	40MH7
INIX IC,	Channer	Dunuwiuti.	40101112

Antenna Port	Modulation	Temperature (°C)	Frequency Stability (Hz)			
			Channel	Channel	Channel	
			Position B	Position M	Position T	
D	256QAM	-30	0.24	0.38	0.18	
		-20	0.22	0.75	0.08	
		-10	0.67	0.26	0.25	
		0	0.19	0.56	0.33	
		10	0.22	3.83	1.18	
		20	1.45	1.53	2.09	
		30	0.17	0.38	0.68	
		40	0.86	0.35	0.01	
		50	0.57	0.30	0.35	

Frequency Error – Voltage Variation

NR-1C, Channel Bandwidth: 40MHz

Antenna Port	Modulation	Temperature (°C)	Supply	Frequency Stability (Hz)		
			Voltage	Channel	Channel	Channel
			(V)	Position B	Position M	Position T
D	256QAM	20	-40.8	1.43	0.56	0.99
			-48.0	1.45	1.53	2.09
			-55.2	0.94	2.23	1.92