





30MHz to 10GHz, Low Channel, Subcarrier (3.75kHz), BPSK, 1@0



30MHz to 10GHz, Low Channel, Subcarrier (15kHz), QPSK, 1@0

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30MHz to 10GHz, Low Channel, Subcarrier (15kHz), QPSK, 12@0



30MHz to 10GHz, Low Channel, Subcarrier (15kHz), BPSK, 1@0

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30MHz to 10GHz, Mid Channel, Subcarrier (3.75kHz), QPSK, 1@0



30MHz to 10GHz, Mid Channel, Subcarrier (3.75kHz), BPSK, 1@0

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Spectrum Analyzer 1 Swept SA	+		-					ø	Marker	1 44
	RF Input ng DG Corre Auto Freq I	2 50 0 #A ctions Off Pr Ref. Int (S)	uten 46 dB eamp Off	PNO Fast Gate Off IF Gain Low	Avg Type AvgiHold Trig: Free	Log-Power 39/100 Run		Select Marke Marker 1	¥ř	
1 Spectrum	*	Ref	LvI Offset 3.4	0 dB		Mkr1 8	37.57 MHz	Marker Fred 837.570000	uency MHz	Settings
Scale/Div 10 dB		Ref	Level 33.40 d	Bm			15.13 dBm	Peak S	earch	Peak Search
23.4								Next F	Peak	Pk Search Config
1324								Next Pk	Right	Properties
3 40								Next P	k Left	Marker Function
10 0							DL1-13.00 dBm	Minimur	n Peak	Marker+
-26.6			\$ <sup>2</sup>	2				Pk-Pk S	Search	Counter
-36 6 mondan margarate	upper a service and and	permanent and an	and a start and a start	No. American A	and the second sec	and a state of the		Marker	Delta	
-46.6								Mkr-	+CF	
56.0								Mkr-+F	tef Lvi	
Start 30 MHz #Res BW 1.0 MHz		#V	ideo BW 3.0 M	NHz	Sv	St veep ~18.1	op 10.000 GHz ms (1001 pts)	Continuous Search On	Peak	
4 n C	1 ? Jul 3 2:10	0, 2022 22 AM	1				X	Off		

30MHz to 10GHz, Mid Channel, Subcarrier (15kHz), QPSK, 1@0



30MHz to 10GHz, Mid Channel, Subcarrier (15kHz), QPSK, 12@0

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KEYSIGHT Input RF	Input Z: 50 Q Corrections, Off	WAtten: 46 dB Preamo: Off	PNO Fast Gate Off	Avg Type: Log-Power Avg/Hold: 35/100	121456	Select Marker	140
Align Auto	Freq Rel: Int (S)		IF Gain Low	Ing: Free Run	PNNNNN	Marker 2	-
1 Spectrum T		Ref LvI Offset 3.	40 dB	Mkr2 3.9	98 06 GHz	Marker Frequency 3.998060000 GHz	Settings
Scale/Div 10 dB		Ref Level 33.40	dBm	-4	27.08 dBm	Peak Search	Peak Search
73.4						Next Peak	Pk Search Config
1364						Next Pk Right	Properties
3 40						Next Pk Left	Marker Function
16.6					DL1-13.00 dBm	Minimum Peak	Marker
26.6		2				Pk-Pk Search	Counter
36 6 show we have shown an	a horistan in highly and the	white	approximition was	mananantalkatama	Mayor da Mayor Maylar	Marker Delta	
						Mkr-+CF	
						MkrRef LVI	
Start 30 MHz #Res BW 1.0 MHz		#Video BW 3.0	MHz	Sweep ~18.1	op 10.000 GHz ms (1001 pts)	Continuous Peak Search On	
1 5 C 1 ?	Jul 30, 2022	<u>e</u>			X	Off	

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Spectrum Analyzer 1 Swept SA	+					🛱 Marker	· · · 📸
KEYSIGHT Input RF Couping DG Augn: Auto	Input Z 50 Q Corrections Off Freq Ref. Int (S)	#Atten: 46 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold: 39/100 Trig: Eree Run		Select Marker Marker 2	
1 Spectrum		Ref LvI Offset 3.	40 dB	Mkr2 3.9	98 06 GHz	Marker Frequency 3.998060000 GHz	Settings
Scale/Div 10 dB Log		Ref Level 33.40	dBm		27.45 dBm	Peak Search	Peak Search
23.4 01						Next Peak	Pk Search Config
13,4						Next Pk Right	Properties
3 40						Next Pk Left	Marker Function
18.6					DL1-13 00 dBm	Minimum Peak	Marker
-26.6		2				Pk-Pk Search	Counter
36 15 payor minile mount	and any horner and	transfer Landa and the strate of the	in manufacture	and a state of the second s	iteration and the state of the	Marker Deita	
						Mkr→CF	
						Mkr-+Ref Lvi	
Start 30 MHz #Res BW 1.0 MHz		#Video BW 3.0	MHz	Sweep ~18.1	op 10.000 GHz ms (1001 pts)	Continuous Peak Search On	
	Jul 30, 2022 2:30:40 AM			🖎	X	Off	

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# 6.5.6 CAT-M B2 Conducted Spurious Emission Results

Band2-High Channel-1.4MHz Bandwidth-30MHz to 1GHz



Band2-High Channel-1.4MHz Bandwidth-1GHz to 10GHz

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	ut RF upling DC gn: Auto	Input Z 50 Q Corrections Off Freq Rel: Int (S)	#Atten: 38 dB Proamp: Off	PNO Fast Gate Off IF Gain Low Sw Track Off	Avg Type: Log-Power Avg[Hold: 26/100 Trig: Eree Run		Select Marker Marker 1	
1 Spoctrum Scale/Div 10 dB	*		Ref LvI Offset 3. Ref Level 31.40	40 dB	Mkrt	19.30 GHz	Marker Frequency 19.300000000 GHz	Settings
Log			101 20101 01.10				Marker Mode	Search
							Normal Delta (A)	Pk Search Config
н.							Eved	Properties
7.40							Fixed	Marker
						DL1=13 mLdBm	on	Function
							Delta Marker (Reset Delta)	Marker+
28.6 38.6 <b>4444444444</b>		and water and the	nort-prove-statestic-the	Maphananan	- in restaury set of a short way	nushanara ananara	Marker Table On Off	Counter
							Karker Settings Diagram	
							All Markers Off	
tart 10.000 GHz			#Video BW 3.0	MHz	Sweep ~18.5	op 20.000 GHz ms (1001 pts)	Couple Markers On	1

Band2-High Channel-1.4MHz Bandwidth-10GHz to 20GHz

Spectrum Analy Swept SA	vzer 1 ,	+						Ö	Marker		-
	Input RF Couping DC Align Auto	Input Z 50 Q Corrections Off Freq Ref. Int (S)	#Atter: 36 dB Preamp: Off	PNO Fast Gate Off IF Gain Low Set Teack Off	Avg Type Log Avg[Hold: 100 Trig: Erice Rur	)-Power 1/100 1		Select Ma Marker 1	rker	_	
1 Spoctrum	*		Ref LvI Offset -0.	60 dB	M	kr1 7	70.11 MHz	Marker Fr 770.1100	requency 100 MHz	Settin	gs
Scale/Div 10 d	B		Ref Level 25.40 o	1Bm		-4	5.34 dBm	Peal	k Search	Peak Searc	h
16 d								Ne:	kt Peak	Pk Se Config	arch J
5.40								Next	Pk Right	Prope	rties
-1 110							DE1-12.00 dBm	Nex	t Pk Left	Marke Funct	er ion
-14.6								Minim	ium Peak	Marke	98
-34.6								Pk-P	k Search	Count	ter
-44,6					•1			Mark	ker Delta		
-54.5	absonantions	anter a generation de la d	Madurlemanulista	and with a part of the	antelan alterativ	a transformation	served Walkson withe	M	r-+CF		
-04.0								MKr-	-Ref LVI		
Start 0.0300 G #Res BW 1.0 M	Hz MHz		#Video BW 3.0	MHz	Swe	Sto ep 1.00	p 1.0000 GHz ms (1001 pts)	Continuo Search On	us Peak		
15	C	? Aug 08, 2022 11:55:26 PM	9				X	Off			

Band2-High Channel-3MHz Bandwidth-30MHz to 1GHz

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Band2-High Channel-3MHz Bandwidth-1GHz to 10GHz



Band2-High Channel-3MHz Bandwidth-10GHz to 20GHz

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KEYSIGHT Input	RF Auto	Input Z 50 Q Corrections Off Freq Ref: Int (S)	WAtten: 40 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold >100/100 Trig: Eree Run		Select Marker Marker 1	
M Spectrum			Ref LvI Offset 3.	40 dB	Mkr1 9	02.03 MHz	Marker Frequency 902.030000 MHz	Settings
cale/Div 10 dB			Ref Level 33.40	dBm		33.35 dBm	Peak Search	Peak Search
							Next Peak	Pk Search Config
							Next Pk Right	Properties
3 40							Next Pk Left	Marker Function
16.8						DL1-13 00 dBm	Minimum Peak	Marker
						1	Pk-Pk Search	Counter
36 5 alternatively and	in the second	hand a gradie and get gate and a well find	and the street of the street of the	Le Malanciana ana an	understation of an arriver	and the man and the second	Marker Delta	
							Mkr-+CF	
							MkrRef Lvi	
tart 0.0300 GHz es BW 3.0 MHz			Video BW 50 M	MHz	Streep 1.00	op 1.0000 GHz ms (1001 pts)	Continuous Peak Search On	

Band2-High Channel-5MHz Bandwidth-30MHz to 1GHz



Band2-High Channel-5MHz Bandwidth-1GHz to 10GHz

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EYSIGHT Input RF Coupling Align Au	: Inpu P.OG. Con No Free	nt Z 50 Ω rections Off a Rel: Int (S)	#Atten: 40 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Pow Avg[Hold: 12/100 Trig: Eree Run	≝ <b>1234≣0</b> M₩₩₩₩₩₩	Select Marker Marker 1	
v Spectrum	•		Ref LvI Offset 3.	Sig Track: Off	Mkrt	19.18 GHz	Marker Frequency 19.180000000 GHz	Settings
cale/Div 10 dB			Ref Level 33.40 d	dBm		-27.25 aBm	Peak Search	Peak Search
							Next Peak	Pk Search Config
							Next Pk Right	Properties
9 411							Next Pk Left	Marker Function
10.0						DL1-13 00 dBm	Minimum Peak	Marker
						↓1	Pk-Pk Search	Counter
disalisticher growth	John marked the	rambultutte	باروي إلىوينا المجر ويار	month waamphane	and for the state of the state of the	Harmatur Politics Violanderit	Marker Delta	
							Mkr-+CF	
							Mkr-+Ref Lvi	
tart 10.000 GHz tes BW 3.0 MHz			Video BW 50 N	ИНz	Sweep ~18	Stop 20.000 GHz .5 ms (1001 pts)	Continuous Peak Search On	

Band2-High Channel-5MHz Bandwidth-10GHz to 20GHz

Spectrum Analyzer 1	+					Marker	* *
KEYSIGHT Input: RF Couping: DC Augn: Auto	Input Z 50 Q Corrections Off Freq Ref. Int (S)	WAtten: 40 dB Proamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type Log-Power Avg[Hold>100/100 Tng: Free Run		Select Marker Marker 1	
1 Spectrum V		Ref LvI Offset 3.4	40 dB	Mkrt 9	39.86 MHz	Marker Frequency 939.860000 MHz	Settings
Scale/Div 10 dB		Ref Level 33.40 o	1Bm	*	4.07 dBm	Peak Search	Peak Search
23.4						Next Peak	Pk Search Config
13.4						Next Pk Right	Properties
73-411						Next Pk Left	Marker Function
5.62					DL1-13 00 dBm	Minimum Peak	Marker
-26.6						Pk-Pk Search	Counter
-36 6 sparse relationship to a state	متحلين والمحد والمحدود	ورغباق ومالطينية اللدوراج	un shadowshallot	+ automucher + the Alia	haubdelanuenee	Marker Delta	
-46 6						Mkr-+CF	1
56.0						Mkr-+Ref Lvi	1
Start 0.0300 GHz Res BW 3.0 MHz		Video BW 50 N	1Hz	Sweep 1.00	op 1.0000 GHz ms (1001 pts)	Continuous Peak Search On	1
4501	? Aug 02, 2022 11:05:39 PM				X	Off	

Band2-High Channel-10MHz Bandwidth-30MHz to 1GHz

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Spectrum Anal Swept SA	yzer 1	+					C Marker	· · · · · · · · · · ·
	Input RF Couping DC. Align Auto	Input Z 50 Q Corrections Off Freq Ref. Int (S)	#Atten: 40 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold: 36/100 Trig: Eree Run		Select Marker Marker 2	
1 Spectrum	•		Ref LvI Offset 3	40 dB	Mkr2	3.997 GHz	Marker Frequency 3.997000000 GHz	Settings
Scale/Div 10 c	B A1		Ref Level 33.40	dBm	-	27.92 dBm	Peak Search	Peak Search
	· ·						Next Peak	Pk Search Config
							Next Pk Right	Properties
3 40							Next Pk Left	Marker Function
						DL1-13 00 dBm	Minimum Peak	Marker
		<b>2</b>					Pk-Pk Search	Counter
36 6 Annaldonia	del manus	managentication	woweness where	survey and a survey of	and when also grade all which a	wood and a start of the start o	Marker Delta	
							Mkr-+CF	
							Mkr-+Ref LVI	
start 1.000 GH Res BW 3.0 M	iz Hz		Video BW 50 I	MHz	Steep ~16.2	op 10.000 GHz ms (1001 pts)	Continuous Peak Search On	
15	CI	? Aug 02, 2022 11:06:04 PM	9			X	Off	

Band2-High Channel-10MHz Bandwidth-1GHz to 10GHz



Band2-High Channel-10MHz Bandwidth-10GHz to 20GHz

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Band2-High Channel-15MHz Bandwidth-30MHz to 1GHz



Band2-High Channel-15MHz Bandwidth-1GHz to 10GHz

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Spectrum Analyze Swept SA	en	+					Marker	1 3
	put RF outing DC, ign Auto	Input Z 50 Q Corrections Off Freq Rel: Int (S)	WAtten: 40 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Pow Avg[Hold: 10/100 Trig: Erice Run		Select Marker Marker 1	
07 1 Spoctrum			Ref LvI Offset 3	Sig Inack Off	Mkr	19.43 GHz	Marker Frequency 19.430000000 GHz	Settings
Scale/Div 10 dB			Ref Level 33.40	dBm		-27.21 dBm	Peak Search	Peak Search
							Next Peak	Pk Search Config
							Next Pk Right	Properties
3 40							Next Pk Left	Marker Function
16.6						DL1-13.00 dBm	Minimum Peak	Marker
						1	Pk-Pk Search	Counter
statementarila 36.6	Merropelebaar	which has a shere and	hading the spinist providence of the spinist	hi-smokher/helphytener	angentersterretionen	and the second states	Marker Delta	
							Mkr-+CF	
							MkrRef Lvi	
tart 10,000 GHz Res BW 3.0 MHz			Video BW 50 M	MHz	Sweep ~18	Stop 20.000 GHz 3.5 ms (1001 pts)	Continuous Peak Search On	
150		Aug 02, 2022	9				Off	

Band2-High Channel-15MHz Bandwidth-10GHz to 20GHz



Band2-High Channel-20MHz Bandwidth-30MHz to 1GHz

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Spectrum Anal Swept SA	yzer 1 💡	÷					Marker	· · ·
	Input RF Couping DC Align Auto	Input Z 50 Q Corrections Off Freq Ref. Int (S)	WAtten: 40 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold: 43/100 Trig: Eree Run		Select Marker Marker 1	
1 Spectrum			Ref LvI Offset 3.	40 dB	Mkr1	1.891 GHz	Marker Frequency 1.891000000 GHz	Settings
Scale/Div 10 o	1B		Ref Level 33.40	dBm		26.65 dBm	Peak Search	Peak Search
23.4							Next Peak	Pk Search Config
13.4							Next Pk Right	Properties
29 4D							Next Pk Left	Marker Function
16.6						DL1-13 00 dBm	Minimum Peak	Marker
-26.6	1		-	02			Pk-Pk Search	Counter
-36.6	an ale and all property	and and a start	Mathematical and the section	Unided the water and	are friend for a for the for the second second	had be particulated	Marker Delta	
-46.6							Mkr→CF	
560							MkrRef Lvi	
Start 1.000 GH Res BW 3.0 M	lz Hz		Video BW 50 M	MHz	Sweep ~16.2	op 10.000 GHz ms (1001 pts)	Search Ón	
15	C 1	? Aug 02, 2022 11:19:21 PM	ø			X	Off	

Band2-High Channel-20MHz Bandwidth-1GHz to 10GHz



Band2-High Channel-20MHz Bandwidth-10GHz to 20GHz

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Spectrum Analyzer Swept SA	11 1	+					🗘 Marke	r 1 👬
	out RF Subing DC, gn: Auto	Input 2 50 Q Corrections Off Freq Ref. Int (S)	WAtten: 42 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type Log-Power Avg[Hold>100/100 Trig: Errie Run		Select Marker Marker 1	
1 Spectrum			Ref LvI Offset 3.	40 dB	Mkr1 90	00.09 MHz	Marker Frequency 900.090000 MHz	Settings
Scale/Div 10 dB			Ref Level 33.40	dBm	-	31.25 dBm	Peak Search	Peak Search
							Next Peak	Pk Search Config
							Next Pk Right	Properties
							Next Pk Left	Marker Function
						DL1+13 00 dBm	Minimum Peak	Marker
						1	Pk-Pk Search	Counter
-16 6 torologlast	wellowands	ماليه روم وروم والداليموس	and the state of the	manphilophilasofile	and the second second second	mannalin	Marker Delta	
							Mkr-+CF	1
							Mkr-+Ref Lvi	1
Start 0.0300 GHz Res BW 3.0 MHz			Video BW 50 M	MHz	Steep 1.00	op 1.0000 GHz ms (1001 pts)	Continuous Peak Search On	1
100		Jul 27, 2022 8:30:03 PM	9			X	Off	

Band2-Middle Channel-1.4MHz Bandwidth-30MHz to 1GHz



Band2-Middle Channel-1.4MHz Bandwidth-1GHz to 10GHz

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Spectrum Analyze Swept SA	e1 .	+					Marker	1 🚟
	put RF buoing DC, ign Auto	Input 2:50 Q Corrections Off Freq Rel: Int (S)	WAtten: 42 dB Preamp: Oft	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power AvgiHold: 29/100 Trig: Eree Run		Select Marker Marker 1	
1 Spectrum	*		Ref LvI Offset 3.	40 dB	Mkrt	19.08 GHz	Marker Frequency 19.080000000 GHz	Settings
Scale/Div 10 dB			Ref Level 33.40	dBm		24.35 dBm	Peak Search	Peak Search
							Next Peak	Pk Search Config
							Next Pk Right	Properties
3 40							Next Pk Left	Marker Function
16.6						DL1-13-00 dBm	Minimum Peak	Marker+
-26.6	يروي الحاديد	المحمد ومرو وسيطالعون	withour manager	Marinadoraldiana	المراجعة والمراجعة والمحاد والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمحاد والمحاد والمراجعة والمحاد والمح	And a	Pk-Pk Search	Counter
36.6		ALL TO A MARK AND AND AND					Marker Delta	
							Mkr→CF	
							Mkr-+Ref Lvi	
Start 10.000 GHz Res BW 3.0 MHz			Video BW 50 I	MHz	Steep ~18.5	op 20.000 GHz ms (1001 pts)	Continuous Peak Search On	
100		Jul 27, 2022 8:31:34 PM				X	Off	

Band2-Middle Channel-1.4MHz Bandwidth-10GHz to 20GHz



Band2-Middle Channel-3MHz Bandwidth-30MHz to 1GHz

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Band2-Middle Channel-3MHz Bandwidth-1GHz to 10GHz



Band2-Middle Channel-3MHz Bandwidth-10GHz to 20GHz

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	put RF outping DC ign Auto	Input 2:50 Q Corrections: Off Freq Ref: Int (S)	WAtten: 42 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Powe Avg[Hold >100/100 Trig: Free Run		Select Marker Marker 1	
M Spoctrum	•		Ref LvI Offset 3.	40 dB	Mkrt	736.16 MHz	Marker Frequency 736.160000 MHz	Settings
cale/Div 10 dB			Ref Level 33.40	dBm		-36.20 dBm	Peak Search	Peak Search
							Next Peak	Pk Search Config
							Next Pk Right	Properties
							Next Pk Left	Marker Function
5.60.						DL1-13 00 dBm	Minimum Peak	Marker
							Pk-Pk Search	Counter
6.6					1	All and a later of the second second	Marker Deita	
-Muswellin 16.6	rter and the second	and the second	1999 (1997) - C. (1997)				Mkr-+CF	
							MkrRef Lvi	
tart 0.0300 GHz Res BW 1.0 MH	7.		#Video BW 3.0	MHz	Sweep 1.0	Stop 1.0000 GHz 00 ms (1001 pts)	Continuous Peak Search On	1

Band2-Middle Channel-5MHz Bandwidth-30MHz to 1GHz



Band2-Middle Channel-5MHz Bandwidth-1GHz to 10GHz

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Spectrum Analyzer Swept SA	1 1	+					Marker Marker	1 4
	ut RF uping DC In: Auto	Input Z 50 Q Corrections Off Freq Rel: Int (S)	WAtten: 42 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type Log-Power Avg[Hold: 26/100 Trig: Errie Run		Select Marker Marker 1	
1 Spectrum			Ref LvI Offset 3.	40 dB	Mkr1	19.18 GHz	Marker Frequency 19.180000000 GHz	Settings
Scale/Div 10 dB			Ref Level 33.40	dBm	1	29.85 dBm	Peak Search	Peak Search
							Next Peak	Pk Search Config
							Next Pk Right	Properties
							Next Pk Left	Marker Function
						DL1-13 00 dBm	Minimum Peak	Marker
						<b>1</b>	Pk-Pk Search	Counter
200 Lannan	MANAMAN	an mathematican a	and many many	homenmetershe	explanation and the	war and a second designed as the	Marker Delta	
							Mkr-+CF	
							Mkr-+Ref Lvi	
Start 10.000 GHz #Res BW 1.0 MHz			#Video BW 3.0	MHz	Steep ~18.5	op 20.000 GHz ms (1001 pts)	Continuous Peak Search On	1
150	1 2	Jul 27, 2022 8:19:27 PM	9		🔌	X	Off	

Band2-Middle Channel-5MHz Bandwidth-10GHz to 20GHz

Spectrum Analyzer		+					🗘 Marke	r + 🏤
	t RF ping DC, r Auto	Input 2 50 Q Corrections Off Freq Ref. Int (S)	WAtten: 42 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: Low Sin Track: Off	Avg Type: Log-Power Avg[Hold >100/100 Trig: Free Run		Select Marker Marker 1	
1 Spoctrum			Ref LvI Offset 3.	40 dB	Mkr1 8	55.47 MHz	Marker Frequency 855.470000 MHz	Settings
Scale/Div 10 dB			Ref Level 33.40	1Bm		36.57 dBm	Peak Search	Peak Search
73.4							Next Peak	Pk Search Config
13.4							Next Pk Right	Properties
78-410							Next Pk Left	Marker
10.0						DL1-13-00 dBm	Minimum Peak	Marker
26.6							Pk-Pk Search	Counter
-36 6				u		March And And Addition	Marker Delta	
-46 6	had an appropriate of the second s	Recellen Index experience wild	49-5-9,4-779,9,9,4-4-4-4	- John Marthale			Mkr-+CF	1
560							Mkr-+Ref LVI	1
Start 0,0300 GHz #Res BW 1.0 MHz			#Video BW 3.0	MHz	Silveep 1.00	op 1.0000 GHz ms (1001 pts)	Continuous Peak Search On	1
170		Jul 27, 2022 8:14:24 PM	9			X	Off	

Band2-Middle Channel-10MHz Bandwidth-30MHz to 1GHz

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Swept SA	-					-	Marke	
	Couping DC Align: Auto	Input 2:50 Ω Corrections Off Freq Ref: Int (S)	WAtten: 42 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power AvgiHold: 56/100 Trig: Free Run		Select Marker Marker 2	
M 1 Spectrum			Ref LvI Offset 3.	40 dB	Mkr2	4.024 GHz	Marker Frequency 4.024000000 GHz	Settings
cale/Div 10	dB X1		Ref Level 33.40	dBm		1.02 dBm	Peak Search	Peak Search
	Y						Next Peak	Pk Search Config
							Next Pk Right	Properties
9 4Ti							Next Pk Left	Marker Function
						DL1-13-00 dBm	Minimum Peak	Marker
		12-					Pk-Pk Search	Counter
16 16 LINA AL	bulator more	1-marght and and and	hallow the states	-hallower and the second	month in an annahren a chide	whichogenese	Marker Delta	
							Mkr-+CF	
							MkrRef Lvi	
tart 1.000 GH Res BW 1.0	Hz MHz		#Video BW 3.0	MHz	Sweep ~16.2	op 10.000 GHz ms (1001 pts)	Continuous Peak Search On	
Start 1.000 GH		Jul 27, 2022	#Video BW 3.0	MHz	Sto Sweep ~16.2	op 10.000 GHz ms (1001 pts)	Continuous Peak Search On Off	

Band2-Middle Channel-10MHz Bandwidth-1GHz to 10GHz



Band2-Middle Channel-10MHz Bandwidth-10GHz to 20GHz

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Swept SA	1	÷					C Marke	· · · 🛣
	iput RF ouping DC Jign: Auto	Input Z 50 Q Corrections Off Freq Ref. Int (S)	#Atten: 42 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Powe Avg[Hold >100/100 Trig: Free Run		Select Marker Marker 1	
1 Spectrum			Ref Lyl Offset 3	A0 dB	Mkrt	854.50 MHz	Marker Frequency 854,500000 MHz	Settings
Scale/Div 10 dB			Ref Level 33.40	dBm		-36.45 dBm	Peak Search	Peak Search
							Next Peak	Pk Search Config
							Next Pk Right	Properties
							Next Pk Left	Marker Function
16.8						DL1+13 00 dBm	Minimum Peak	Marker
26.6							Pk-Pk Search	Counter
36.6		1.000		www.webablemaanne	م دارونونچر برونوندارورد ارزیزی	1 Marchananana	Marker Delta	
46.6		Montha Longenter Monae					Mkr-+CF	
56 0							Mkr-+Ref Lvi	
Start 0.0300 GHz Res BW 1.0 MH	z		#Video BW 3.0	MHz	Sweep 1.0	Stop 1.0000 GHz 10 ms (1001 pts)	Continuous Peak Search On	
190		2 Jul 27, 2022				X	011	

Band2-Middle Channel-15MHz Bandwidth-30MHz to 1GHz



Band2-Middle Channel-15MHz Bandwidth-1GHz to 10GHz

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Swept SA					1		Marker	1 20
	ut RF iping DC n: Auto	Input Z 50 Q Corrections Off Freq Ref: Int (S)	WAtten: 42 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold: 33/100 Trig: Eree Run		Select Marker Marker 1	
N 1 Spectrum			Ref LvI Offset 3.	40 dB	Mkr1	19.06 GHz	Marker Frequency 19.060000000 GHz	Settings
Scale/Div 10 dB			Ref Level 33.40	dBm		28.54 dBm	Peak Search	Peak Search
							Next Peak	Pk Search Config
							Next Pk Right	Properties
3 40							Next Pk Left	Marker Function
						DL1-13-00 dBm	Minimum Peak	Marker+
26.6						•1	Pk-Pk Search	Counter
56 6 with a strait when	human	Mart Marthanet Mais	which the state of the second	etwinners forestantes	we draw the man man of a	hangtonesistation	Marker Delta	
							Mkr→CF	
							MkrRef Lvi	
tart 10.000 GHz Res BW 1.0 MHz			#Video BW 3.0	MHz	Sweep ~18.5	top 20.000 GHz i ms (1001 pts)	Continuous Peak Search On	
150		Jul 27, 2022				50	01	

Band2-Middle Channel-15MHz Bandwidth-10GHz to 20GHz

Spectrum Analyzer 1 swept SA	÷					Marker	· · · ·
KEYSIGHT Input RF Couping: DC Augn: Auto	Input 2:50 Q # Corrections Off P Freq Ref: Int (S)	Atten: 42 dB reamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold >100/100 Tng: Free Run		Select Marker Marker 1	
1 Spectrum V	Rel	LvI Offset 3.4	lo dB	Mkrt 8	73.90 MHz	Marker Frequency 873.900000 MHz	Settings
Scale/Div 10 dB	Rei	Level 33.40 d	Bm	-4	6.53 dBm	Peak Search	Peak Search
23.4						Next Peak	Pk Search Config
13.4						Next Pk Right	Properties
3.40						Next Pk Left	Marker Function
16.6					BL1-13 00 dBm	Minimum Peak	Marker
-26.6						Pk-Pk Search	Counter
-36 15	and the second	en en el	an an an and the state	and all the second sections of the	1 Indontescope	Marker Delta	
-46.6						Mkr-+CF	1
56.0						MkrRef LVI	1
Start 0.0300 GHz #Res BW 1.0 MHz	#\	/ideo BW 3.0 M	MHz	Sweep 1.00	p 1.0000 GHz ms (1001 pts)	Continuous Peak Search On	1
4501	? Jul 27, 2022	0			X	Off	

Band2-Middle Channel-20MHz Bandwidth-30MHz to 1GHz

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Spectrum Anal Swept SA	yzer 1 v	+					Marker	· · · · ·
	Input RF Couping DG Align: Auto	Input Z 50 Q Corrections Off Freq Ref. Int (S)	WAtter: 42 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold: 40/100 Trig: Eree Run		Select Marker Marker 2	
1 Spectrum			Ref LvI Offset 3.	40 dB	Mkr2	3.961 GHz	Marker Frequency 3.961000000 GHz	Settings
Scale/Div 10 c	IB		Ref Level 33.40	dBm		0.93 dBm	Peak Search	Peak Search
	Ŷ						Next Peak	Pk Search Config
							Next Pk Right	Properties
3 40							Next Pk Left	Marker Function
						DL1-13 00 dBm	Minimum Peak	Marker
		2_				1	Pk-Pk Search	Counter
-36.6 Autobase	a delanamente	waynunged the market	harring man and for	an marked	and a stand and a stand and a stand and a stand	low planet mentioned	Marker Delta	
							Mkr→CF	
							Mkr-+Ref Lvi	
Start 1.000 GH #Res BW 1.0 I	iz MHz		#Video BW 3.0	MHz	Sweep ~16.2	op 10.000 GHz ms (1001 pts)	Continuous Peak Search On	
15	CI	? Jul 27, 2022 8:04:31 PM				X	Off	

Band2-Middle Channel-20MHz Bandwidth-1GHz to 10GHz

Spectrum Analyzer 1 , Swept SA	+					Marker	1 4
KEYSIGHT Input RF Couping DC Align Auto	Input Z 50 Q Corrections Off Freq Ref. Int (S)	#Atten: 42 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold: 28/100 Trig: Free Run		Select Marker Marker 1	
1 Spectrum		Ref LvI Offset 3.	40 dB	Mkrt	19.24 GHz	Marker Frequency 19.240000000 GHz	Settings
Scale/Div 10 dB		Ref Level 33.40	dBm		28.27 dBm	Peak Search	Peak Search
23.4						Next Peak	Pk Search Config
13,4						Next Pk Right	Properties
7 40						Next Pk Left	Marker
0.60					DL1-13 00 dBm	Minimum Peak	Marker
26.8					•1	Pk-Pk Search	Counter
30 5 mylion where the strange	anothern showing the	ers, rounded, and	memory	normal and the second	un which in a few	Marker Delta	
-46 6						Mkr-+CF	1
56.0						Mkr-+Ref LVI	1
Start 10.000 GHz #Res BW 1.0 MHz		#Video BW 3.0	MHz	Steep ~18.5	op 20.000 GHz ms (1001 pts)	Continuous Peak Search On	1
45C1	? Jul 27, 2022 8:01:44 PM	9		💓	X	Off	

Band2-Middle Channel-20MHz Bandwidth-10GHz to 20GHz

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EYSIGHT Input RF Couping Align: Au	DG Corrections Of Freq Ref. Int (S	#Atten: 42 dB f Preamp Off )	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold >100/100 Trig: Free Run		Select Marker Marker 1	
v Spectrum		Ref LvI Offset 3.	40 dB	Mkrt 9	24.34 MHz	Marker Frequency 924.340000 MHz	Settings
cale/Div 10 dB		Ref Level 33.40	dBm	*	36.73 dBm	Peak Search	Peak Search
						Next Peak	Pk Search Config
						Next Pk Right	Properties
3 471						Next Pk Left	Marker Function
10.0					DL1+13 00 dBm	Minimum Peak	Marker
						Pk-Pk Search	Counter
		a mitale		Louise the same of a state lattice	¢1	Marker Delta	
Juniority management	hadden an	Wernels displaying and	alan ing the state of the state			Mkr→CF	1
						Mkr-+Ref Lvi	1
tart 0,0300 GHz Res BW 1.0 MHz		#Video BW 3.0	MHz	Sweep 1.00	op 1.0000 GHz ms (1001 pts)	Continuous Peak Search On	1

Band2-Low Channel-1.4MHz Bandwidth-30MHz to 1GHz



Band2-Low Channel-1.4MHz Bandwidth-1GHz to 10GHz

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	put RF pupling DC ign: Auto	Input Z 50 Q Corrections Off Freq Rel: Int (S)	WAtten: 42 dB Preamp: Off	PNO Fast Gate Off IF Gain Low Sig Track Off	Avg Type: Log- Avg[Hold 8/10 Trig: Eree Run	Power 0		Center Frequency 15.000000000 GHz	Settings
Spectrum cale/Div 10 dB	*		Ref LvI Offset 3. Ref Level 33.40	40 dB dBm		Mkr2	3.97 GHz dBm	Span 10.0000000 GHz Swept Span Zero Span	
is.1 <del>-</del>								Full Span	
13.4								Start Freq 10.000000000 GHz	
							D(1-13.00 dBm	Stop Freq 20.000000000 GHz	
6.6								AUTO TUNE	
6.6 2 6 6 <b>New Madere</b>	namulta	ution and an angeling of	dellografiseriotessadie.on	New Argest in the work of	www.www.	yphonesal	wydaubu ble befeir	CF Step 1.000000000 GHz Auto Man	
60								Freq Offset 0 Hz	
art 10.000 GHz Res BW 1.0 MH:	z		#Video BW 3.0	MHz	Sweep	Sto ~18.5 r	p 20.000 GHz ms (1001 pts)	X Axis Scale	
170		Jul 27, 2022 7:30:10 PM	-				X	Signal Track (Span Zoom)	

Band2-Low Channel-1.4MHz Bandwidth-10GHz to 20GHz

Spectrum Analyze Swept SA	r1 .	+					C Trace	1 4
	put RF Supling DG ign: Auto	Input Z 50 Q Corrections Off Freq Ref. Int (S)	#Atten: 42 dB Preamp: Off.	PNO Fast Gate Off IF Gain Low Sta Track Off	Avg Type Log-Po Avg[Hold >100/10] Tng Eree Run	Mer 1234 90 M Way Wey W	Select Trace Trace 1	
1 Spectrum Scale/Div 10 dB	*		Ref Lvi Offset 3. Ref Level 33.40	40 dB dBm	Mkrt	769.14 MHz -38.79 dBm	Trace Type Clear / Write	Trace Control Detector
23.4 13.4							Trace Average	Math Trace
3 40 0.60						DL1-12.00 dBm	Restart Max Hold	Normalize
16 G -26.6							View/Blank	
-36 6 -46 6	مراسيهما المراسي	oquaqeta.aqti.szmitutent	North March Market	late-hubble-shelar	njermogehelmetet invelle	and and a second and a second secon	Blank	
Start 0,0300 GHz #Res BW 1.0 MH			#Video BW 3.0	MHz	Sweep 1	Stop 1.0000 GHz	Trace Settings	
170		? Jul 27, 2022 7:32:25 PM				X		

Band2-Low Channel-3MHz Bandwidth-30MHz to 1GHz

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Spectrum Analy Swept SA	yzer 1	+					Marker	
	Input RF Couping DC Align: Auto	Input Z 50 Q Corrections Off Freq Ref. Int (S)	WAtten: 42 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type Log-Power Avg[Hold: 44/100 Trig: Free Run		Select Marker Marker 2	
1 Spectrum	•		Ref LvI Offset 3.	40 dB	Mkr2	4.006 GHz	Marker Frequency 4.006000000 GHz	Settings
Scale/Div 10 d	B		Ref Level 33.40	dBm		30.29 dBm	Peak Search	Peak Search
	Ŷ						Next Peak	Pk Search Config
							Next Pk Right	Properties
3 40							Next Pk Left	Marker Function
						DL1-13 00 dBm	Minimum Peak	Marker
		2					Pk-Pk Search	Counter
36 6 maplifier	- Internet and the	anthrough a mouth when	North Martin	unanter and the states	noniamouting-ubmash	somernalises where is	Marker Delta	
							Mkr-+CF	
							MkrRef Lvi	
Start 1.000 GH #Res BW 1.0 M	iz ViHz		#Video BW 3.0	MHz	Sweep ~16.2	op 10.000 GHz ms (1001 pts)	Continuous Peak Search Ón	
15	CI	? Jul 27, 2022 7:33:01 PM				X	Off	

Band2-Low Channel-3MHz Bandwidth-1GHz to 10GHz



Band2-Low Channel-3MHz Bandwidth-10GHz to 20GHz

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Swept SA	1				-			- <b>Q</b> -	Marker	1 20
	ut RF uping DC. gn. Auto	Input 2:50 Q Corrections Off Freq Ref: Int (S)	WAtten: 42 dB Proamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type Lo Avg[Hold >10 Tog: Free Ru	ig-Power 30/100 In		Select Marke Marker 1	Ŧ	
1 Spectrum			Ref LvI Offset 3.	40 dB	M	krt 7	63.32 MHz	Marker Freq 763.320000	uency MHz	Settings
Scale/Div 10 dB			Ref Level 33.40	dBm		4	36.53 dBm	Peak S	earch	Peak Search
								Next F	<sup>v</sup> eak	Pk Search Config
								Next Pk	Right	Properties
3 40								Next P	k Left	Marker Function
							DL1-13-00 dBm	Minimun	1 Peak	Marker+
								Pk-Pk S	earch	Counter
36.6	and in the second second	alt - materiale a deserve	Manufferra Mar	ممسلاه وسعاما	Jagura change	(however)	alla son an suit a sur fa	Marker	Delta	
-46 6								Mkr-	-CF	
								Mkr→R	ef Lvi	
Start 0.0300 GHz #Res BW 1.0 MHz			#Video BW 3.0	MHz	Sw	Sto eep 1.00	op 1.0000 GHz ms (1001 pts)	Continuous Search On	Peak	
150		Jul 27, 2022 7:37:13 PM	9				X	Off		

Band2-Low Channel-5MHz Bandwidth-30MHz to 1GHz



Band2-Low Channel-5MHz Bandwidth-1GHz to 10GHz

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Spectrum Analyzer Swept SA	1 7	+					C Marker	1
	ut RF uping DC In Auto	Input Z 50 Q Corrections Off Freq Ref: Int (S)	#Atten: 42 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold: 25/100 Trig: Eree Run		Select Marker Marker 1	
1 Spectrum			Ref LvI Offset 3.	40 dB	Mkr1	19.43 GHz	Marker Frequency 19.430000000 GHz	Settings
Scale/Div 10 dB			Ref Level 33.40	dBm		29.89 dBm	Peak Search	Peak Search
							Next Peak	Pk Search Config
							Next Pk Right	Properties
							Next Pk Left	Marker Function
						DL1-13 00 dBm	Minimum Peak	Marker+
-26.6						1	Pk-Pk Search	Counter
SE 5 Manufillion	mentowield,	dortem provident	enderstand on which which	Arount we have a south	adaut the service and a service and a service a se	rentermedia.ander	Marker Delta	
							Mkr-+CF	1
							Mkr-+Ref LVI	1
Start 10.000 GHz #Res BW 1.0 MHz			#Video BW 3.0	MHz	Steep ~18.5	op 20.000 GHz ms (1001 pts)	Continuous Peak Search On	1
4 h C		Jul 27, 2022 7:38:11 PM	9		🖎	X	Off	

Band2-Low Channel-5MHz Bandwidth-10GHz to 20GHz

Spectrum Analyzer 1 Swept SA	÷					Marker	• 🚟
KEYSIGHT Input: RF Coupling DC Align: Auto	Input 2:50 Q Corrections: Off Freq Ref: Int (S)	WAtter: 42 dB Preamp Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold >100/100 Tng: Eree Run		Select Marker Marker 1	,
1 Spectrum 🔹		Ref LvI Offset 3.	40 dB	Mkrt 7	34.22 MHz	Marker Frequency 734.220000 MHz	Settings
Scale/Div 10 dB		Ref Level 33.40	dBm		36.63 dBm	Peak Search	Peak Search
23.4						Next Peak	Pk Search Config
13,4						Next Pk Right	Properties
3 40						Next Pk Left	Marker Function
16.8					DL1-13.00 dBm	Minimum Peak	Marker
-26.6						Pk-Pk Search	Counter
-36.6		La la Marine de Mariana de M	a a super-line	1	والمرجو والمرجو والمرجو والمرجو	Marker Delta	
-46.6	Add Developments where					Mkr-+CF	1
56 0						MkrRef Lvi	1
Start 0.0300 GHz #Res BW 1.0 MHz		#Video BW 3.0	MHz	Sweep 1.00	top 1.0000 GHz ) ms (1001 pts)	Continuous Peak Search On	1
45C	? Jul 27, 2022 7:45:46 PM	0		🔌	X	Off	

Band2-Low Channel-10MHz Bandwidth-30MHz to 1GHz

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Couping UG Align Auto	Input 2:50 Q Corrections Off Freq Rel: Int (S)	WAtten: 42 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold: 37/100 Tng: Eree Run		Select Marker Marker 2	
Spectrum +		Ref LvI Offset 3.	40 dB	Mkr2	3.727 GHz	Marker Frequency 3.727000000 GHz	Settings
cale/Div 10 dB		Ref Level 33.40	dBm	-3	0.17 dBm	Peak Search	Peak Search
23.4						Next Peak	Pk Search Config
13.4						Next Pk Right	Properties
9.40						Next Pk Left	Marker Function
(n.i)					DL1-13 00 dBm	Minimum Peak	Marker
16.6	2					Pk-Pk Search	Counter
15 6 Januar and marken and an and and	and an anno	and the second	anonym more a	neep-received the proves that may	high shandaged sport	Marker Delta	
16,6						Mkr-+CF	
						MkrRef Lvi	1
tart 1.000 GHz Res BW 1.0 MHz		#Video BW 3.0	MHz	Sweep ~16.2	op 10.000 GHz ms (1001 pts)	Continuous Peak Search On	1

Band2-Low Channel-10MHz Bandwidth-1GHz to 10GHz



Band2-Low Channel-10MHz Bandwidth-10GHz to 20GHz

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EYSIGHT Input RF Couping DC Align Auto	Input Z 50 Q Corrections Off Freq Ref. Int (S)	WAtten: 42 d8 Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type Log-Power Avg[Hold >100/100 Trig: Free Run		Select Marker Marker 1	
a Spectrum 🔹		Ref LvI Offset 3.	40 dB	Mkrt 8	48.68 MHz	Marker Frequency 848.680000 MHz	Settings
cale/Div 10 dB		Ref Level 33.40	dBm		36.09 dBm	Peak Search	Peak Search
						Next Peak	Pk Search Config
						Next Pk Right	Properties
						Next Pk Left	Marker Function
0.00 IA R					DL1-13 00 dBm	Minimum Peak	Marker
						Pk-Pk Search	Counter
6.6			Jaho and A Aboli at	1	howthermore takes and a	Marker Delta	
6.5						Mkr→CF	
						MkrRef Lvi	
art 0.0300 GHz Res BW 1.0 MHz		#Video BW 3.0	MHz	Steep 1.00	op 1.0000 GHz ms (1001 pts)	Continuous Peak Search On	1

Band2-Low Channel-15MHz Bandwidth-30MHz to 1GHz



Band2-Low Channel-15MHz Bandwidth-1GHz to 10GHz

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swept SA						Marker	
KEYSIGHT Input RF Coupling DC Align Auto	Input Z 50 Q Corrections Off Freq Rel: Int (S)	WAtten: 42 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold: 40/100 Trig: Eree Run		Select Marker Marker 1	
1 Spectrum V		Ref LvI Offset 3.	40 dB	Mkr1	19.02 GHz	Marker Frequency 19.020000000 GHz	Settings
Scale/Div 10 dB		Ref Level 33.40	dBm		29.69 dBm	Peak Search	Peak Search
						Next Peak	Pk Search Config
						Next Pk Right	Properties
3 40						Next Pk Left	Marker Function
					DL1-13 00 dBm	Minimum Peak	Marker+
26.6					1	Pk-Pk Search	Counter
56 5 magnetichtrating marian	commentance washing	un done war	diterrity of a state of the sta	multiplitherestingenerth	develorist-ror-router	Marker Delta	
						Mkr-+CF	
						Mkr-+Ref Lvi	
tart 10.000 GHz Res BW 1.0 MHz		#Video BW 3.0	MHz	St Sweep ~18.5	op 20.000 GHz ms (1001 pts)	Continuous Peak Search On	
1501	? Jul 27, 2022				M	01	

Band2-Low Channel-15MHz Bandwidth-10GHz to 20GHz

Spectrum Analyzer 1 Swept SA	÷					Marker	· · · ·
KEYSIGHT Input: RF Coupling: DC Align: Auto	Input Z 50 Q Corrections Off Freq Ref. Int (S)	WAtten: 42 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold >100/100 Tng: Free Run		Select Marker Marker 1	
1 Spectrum 🔻		Ref LvI Offset 3.	40 dB	Mkr1 64	41.10 MHz	Marker Frequency 641.100000 MHz	Settings
Scale/Div 10 dB		Ref Level 33.40	dBm	-3	6.36 dBm	Peak Search	Peak Search
23.4						Next Peak	Pk Search Config
13.4						Next Pk Right	Properties
3 40						Next Pk Left	Marker Function
10.02					BL1-13 00 dBm	Minimum Peak	Marker
-26.6						Pk-Pk Search	Counter
-36 6			1	ALL AND DAMES IN ALL MARKS	Malagana dar	Marker Delta	
-4616	al a faith an	*********				Mkr-+CF	1
56.0						MkrRef LVI	1
Start 0.0300 GHz #Res BW 1.0 MHz		#Video BW 3.0	MHz	Sweep 1.00	op 1.0000 GHz ms (1001 pts)	Continuous Peak Search On	1
47C1	? Jul 27, 2022 7:56:22 PM				X	Off	

Band2-Low Channel-20MHz Bandwidth-30MHz to 1GHz

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Spectrum Anal Swept SA	yzer 1	+					🛱 Marker	· · 🚔
	Input RF Couping DC Align Auto	Input Z 50 Q Corrections Off Freq Ref: Int (S)	WAtter: 42 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type Log-Power AvgHold: 38/100 Tng: Ene Run		Select Marker Marker 2	
1 Spectrum			Ref LvI Offset 3.	40 dB	Mkr2	3.916 GHz	Marker Frequency 3.916000000 GHz	Settings
Scale/Div 10 o	B A1		Ref Level 33.40	dBm	*	1.21 dBm	Peak Search	Peak Search
	Ŷ						Next Peak	Pk Search Config
							Next Pk Right	Properties
3 40							Next Pk Left	Marker Function
						DL1-13 00 dBm	Minimum Peak	Marker
		2					Pk-Pk Search	Counter
36 6 July 100	- And for your and have	with any we will be an	you have been	which is string are adopt	and all and a second	rennon	Marker Deita	
							Mkr→CF	
							Mkr-+Ref Lvi	
Start 1.000 GH #Res BW 1.0 /	łz MHz		#Video BW 3.0	MHz	Sweep ~16.2	op 10.000 GHz ms (1001 pts)	Continuous Peak Search On	
15	C -	? Jul 27, 2022 7:56:51 PM				X	Off	

Band2-Low Channel-20MHz Bandwidth-1GHz to 10GHz



Band2-Low Channel-20MHz Bandwidth-10GHz to 20GHz

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# 6.5.7 CAT-M B4 Conducted Spurious Emission Results

Band4-High Channel-1.4MHz Bandwidth-30MHz to 1GHz



Band4-High Channel-1.4MHz Bandwidth-1GHz to 10GHz

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Swept SA	1	+					Marker	1 20
	ut RF uping DC In: Auto	Input Z: 50 Q Corrections Off Freq Ref: Int (S)	WAtten: 40 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Pr Avg[Hold: 27/100 Trig: Erree Run	wer 123450	Select Marker Marker 1	
1 Spoctrum			Ref LvI Offset 3.	40 dB	Mk	r1 19.61 GHz	Marker Frequency 19.610000000 GHz	Settings
Scale/Div 10 dB			Ref Level 33.40	dBm		-26.75 dBm	Peak Search	Peak Search
							Next Peak	Pk Search Config
							Next Pk Right	Properties
3.40							Next Pk Left	Marker Function
16.0						DL1-13 00 dBm	Minimum Peak	Marker
26.6						1	Pk-Pk Search	Counter
36.6	ily shall be a start of the sta	have been also and a feature of the	*****	and a second second	ndalader eis Bill and and		Marker Delta	
							Mkr-+CF	
							MkrRef Lvi	
tart 10,000 GHz Res BW 3.0 MHz			Video BW 50 M	ИНz	Sweep ~	Stop 20.000 GHz 18.5 ms (1001 pts)	Continuous Peak Search On	
150		Jul 28, 2022				<b>N</b> M	Off	

Band4-High Channel-1.4MHz Bandwidth-10GHz to 20GHz

Spectrum Analyzer 1 Swept SA	2 <b>+</b>					🗘 Mark	er r 👬
KEYSIGHT Input RF Couping Align Auto	DG Corrections Of Freq Ref. Int (S	#Atten: 40 dB Preamp Off )	PNO Fast Gate Off IF Gain Low	Avg Type Log-Power Avg[Hold >100/100 Trig: Free Run		Select Marker Marker 1	
1 Spectrum T		Ref LvI Offset 3.	40 dB	Mkrt 9	36.95 MHz	Marker Frequency 936.950000 MHz	Settings
Scale/Div 10 dB		Ref Level 33.40	dBm	-	3.14 dBm	Peak Search	Peak Search
23.4						Next Peak	Pk Search Config
13,4						Next Pk Right	Properties
3.40						Next Pk Left	Marker Function
46.6					DL1=13.00 dBm	Minimum Peak	Marker
-26.8						Pk-Pk Search	Counter
-38 6 acculated and a	الإقباوس ويتهملو ليطام مقبولا ومالياته	and manhan and the subfiction	hamme and a state of the state	man month and a figure of the	weight have an	Marker Delta	
-46.6						Mkr-+CF	
56.0						Mkr-+Ref Lvi	
Start 0.0300 GHz Res BW 3.0 MHz		Video BW 50 I	MHz	Sto Sweep 1.00	op 1.0000 GHz ms (1001 pts)	Continuous Peak Search On	1
45CI	<b>?</b> Jul 28, 2022 1:50:09 AM				X	Off	

Band4-High Channel-3MHz Bandwidth-30MHz to 1GHz

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Swept SA						Frequency	
KEYSIGHT Input RF Couping DC Align Auto	Input 2:50 Q Corrections Off Freq Ref. Int (S)	WAtten: 40 dB Preamp Off	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log-Power AvgiHold: 88/100 Trig: Eree Run		Center Frequency 5.500000000 GHz	Settings
Spectrum T cale/Div 10 dB		Ref LvI Offset 3. Ref Level 33.40	40 dB dBm	Mkr2	4.789 GHz 28.14 dBm	9,00000000 GHz Swept Span Zero Span	
Sta Y						Full Span	
13,4						Start Freq 1.000000000 GHz	
. (53)					D(1-13.00 dBm	Stop Freq 10.000000000 GHz	
6.6						AUTO TUNE	
6.0	man and the second second	- share was	net internet	and and and a start and a st	mannahill	CF Step 900.000000 MHz	
10 0						Auto Man	
						Freq Offset 0 Hz	
tart 1.000 GHz es BW 3.0 MHz		Video BW 50 M	ЛНz	Steep ~16.2	op 10.000 GHz ms (1001 pts)	X Axis Scale Log	
1 つ ご !!?	Jul 28, 2022 1:48:01 AM					Signal Track (Span Zoom)	

Band4-High Channel-3MHz Bandwidth-1GHz to 10GHz



Band4-High Channel-3MHz Bandwidth-10GHz to 20GHz

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KEYSIGHT Input	RF ng DC Auto	Input Z 50 Q Corrections Off Freq Rel: Int (S)	WAtten: 40 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold >100/100 Trig: Free Run		Select Marker Marker 1	
M Spectrum	•		Ref LvI Offset 3.	40 dB	Mkr1 8	32.19 MHz	Marker Frequency 832.190000 MHz	Settings
cale/Div 10 dB			Ref Level 33.40	dBm	*	23.43 dBm	Peak Search	Peak Search
							Next Peak	Pk Search Config
							Next Pk Right	Properties
9 471							Next Pk Left	Marker Function
5,000 10,0						DL1-13.00 dBm	Minimum Peak	Marker
							Pk-Pk Search	Counter
16 5 Amaximut	A.J.A.M	مريا استاد مرد المرد (مدور المنتخط	Langenterration	de managent an all and a star frances	Annalis and the	manufacture	Marker Delta	
							Mkr-+CF	
							Mkr-+Ref LVI	
tart 0.0300 GHz es BW 3.0 MHz			Video BW 50 M	MHz	Steep 1.00	op 1.0000 GHz ms (1001 pts)	Continuous Peak Search On	1

Band4-High Channel-5MHz Bandwidth-30MHz to 1GHz



Band4-High Channel-5MHz Bandwidth-1GHz to 10GHz

**Chongqing Academy of Information and Communication Technology** 





KEYSIGHT Input RF Couping DC Align Auto	Input 2:50 Q Corrections: Off Freq Ref: Int (S)	WAttern 40 dB Preamp Off	PNO Fast Gate Off IF Gain Low Sig Track Off	Avg Type: Log-Power Avg[Hold: 55/100 Trig: Erre Run		Select Marker Marker 1	
i Spectrum T	R	ef LvI Offset 3.	40 dB	Mkrt	19.04 GHz	Marker Frequency 19.040000000 GHz	Settings
		CT LCTCT 55.40 (			10.00 abiii	Marker Mode	Search
						Normal	Pk Search Config
13.4						Fixed	Propertie
b.mt						Off	Marker Function
					DL1-13 00 dBm	Delta Marker (Reset Delta)	Marker
28.8 stheydron a fellen than an a	worker who was south	an and a start and a start and a start and a start a st	لىرى كەلەرمەيىرىكى <mark>تەر</mark> مەرە <sup>ر</sup> ە	ang a dia mang ang ang ang ang ang ang ang ang ang	alar and an and a	Marker Table On Off	Counter
						K Marker Settings Diagram	
						All Markers Off	
tart 10.000 GHz es BW 3.0 MHz		Video BW 50 N	ſHz	Sweep ~18.5	op 20.000 GHz ms (1001 pts)	Couple Markers On	

Band4-High Channel-5MHz Bandwidth-10GHz to 20GHz

Spectrum Analyzer 1	÷					Marker	· · ·
KEYSIGHT Input RF Couping: DC Augn: Auto	Input Z 50 Q Corrections Off Freq Ref: Int (S)	WAtten: 40 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold >109/100 Trig: Free Run		Select Marker Marker 1	
1 Spectrum V		Ref LvI Offset 3.	40 dB	Mkr1 9	02.03 MHz	Marker Frequency 902.030000 MHz	Settings
Scale/Div 10 dB		Ref Level 33.40	dBm	*	33.43 dBm	Peak Search	Peak Search
23.4						Next Peak	Pk Search Config
13.4						Next Pk Right	Properties
3.40						Next Pk Left	Marker
0.60					DL1-12-00 dBm	Minimum Peak	Marker
-26.8						Pk-Pk Search	Counter
36 6 water and share	With the second of the second	ورمعوان العارة لي دوم بلور	yi.Amg <sup>h</sup> gayan <mark>ler</mark> ligtingangan M	and the state of the state of the state of the	- Station all games	Marker Delta	
-46 6						Mkr-+CF	1
56.0						Mkr-+Ref LVI	1
Start 0.0300 GHz Res BW 3.0 MHz		Video BW 50 M	MHz	Sto Sweep 1.00	op 1.0000 GHz ms (1001 pts)	Continuous Peak Search On	1
	? Jul 28, 2022 2:07:07 AM				X	Off	

Band4-High Channel-10MHz Bandwidth-30MHz to 1GHz

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Swept SA	÷					Marker	
KEYSIGHT Input RF Couping DC Align Auto	Input 2:50 Q Corrections Off Freq Rel: Int (S)	WAtten: 40 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold: 81/100 Trig: Erice Run		Select Marker Marker 2	
1 Spectrum 🔹		Ref LvI Offset 3.	40 dB	Mkr2	4.834 GHz	Marker Frequency 4.834000000 GHz	Settings
Scale/Div 10 dB		Ref Level 33.40	dBm	-2	28.03 dBm	Peak Search	Peak Search
23.4						Next Peak	Pk Search Config
13,4						Next Pk Right	Properties
3 40						Next Pk Left	Marker Function
16.6					DL1-13 00 dBm	Minimum Peak	Marker
26.6		12				Pk-Pk Search	Counter
36 6 amon have a sur and a	www.lin. and have you	and the second second	and the stranger and a stranger	A. J. Manger of Barris and a strategic of the	- the work of the ch	Marker Delta	
						Mkr→CF	
						Mkr-+Ref LVI	
Start 1.000 GHz Res BW 3.0 MHz		Video BW 50 M	MHz	Steep ~16.2	op 10.000 GHz ms (1001 pts)	Continuous Peak Search On	
-50-1	Jul 28, 2022				50	Off	

Band4-High Channel-10MHz Bandwidth-1GHz to 10GHz

Spectrum Analyzer 1 Swept SA	* +					Marker	1
KEYSIGHT Input RF Couping Align Auto	06 Input 2 50 Ω Corrections Off Freq Ref. Int (S	#Atten: 40 dB Preamp: Off )	PNO Fast Gate Off IF Gain Low Sw Track Off	Avg Type: Log-Power Avg[Hold >100/100 Trig: Eree Run		Select Marker Marker 1	
1 Spectrum 🔹		Ref LvI Offset 3.	40 dB	Mkr1	19.46 GHz	Marker Frequency 19.460000000 GHz	Settings
Scale/Div 10 dB		Ref Level 33.40	dBm		26.19 aBm	Peak Search	Peak Search
23.8						Next Peak	Pk Search Config
13,4						Next Pk Right	Properties
73 401						Next Pk Left	Marker Function
0.60					DL1-13.00 dBm	Minimum Peak	Marker
28.6					¢1	Pk-Pk Search	Counter
-38 6	moundman	Maria - Ma i - Maria - Mari	ndija ta a dina di a di a di a di a di a di a d	ne borned iterstance	NUMBER OF STREET	Marker Delta	
-46.6						Mkr-+CF	1
56.0						Mkr-+Ref Lvi	1
Start 10,000 GHz Res BW 3.0 MHz		Video BW 50 1	ИНz	Steep ~18.5	op 20.000 GHz ms (1001 pts)	Continuous Peak Search On	1
45 CI	<b>?</b> Jul 28, 2022 2:06:08 AM	9			X	Off	

Band4-High Channel-10MHz Bandwidth-10GHz to 20GHz

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Align Auto	Corrections Off Freq Ref: Int (S)	WAtten: 40 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Typer Log-Power Avg[Hold>100/100 Trig: Erice Run		Select Marker Marker 1	
/ Spectrum •	R	ef LvI Offset 3.4	40 dB	Mkrt 8	96.21 MHz	Marker Frequency 896.210000 MHz	Settings
cale/Div 10 dB	R	ef Level 33.40 c	lBm	~	51.82 dBm	Peak Search	Peak Search
						Next Peak	Pk Search Config
						Next Pk Right	Properties
						Next Pk Left	Marker Function
					DL1+13 00 dBm	Minimum Peak	Marker
					.1	Pk-Pk Search	Counter
6 6 Lunaterstrates	work the state of	manetimeter	mathing in the state of the state	and a market and a second	and and by service as	Marker Deita	
						Mkr→CF	1
						Mkr-+Ref Lvi	
art 0.0300 GHz es BW 3.0 MHz		Video BW 50 N	NHz	Sweep 1.00	op 1.0000 GHz ms (1001 pts)	Continuous Peak Search On	1

Band4-High Channel-15MHz Bandwidth-30MHz to 1GHz



Band4-High Channel-15MHz Bandwidth-1GHz to 10GHz

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KEYSIGHT Input I Couped Align / Spectrum cale/Div 10 dB	RF Ir Ng DG G Nuto F	put 2:50 Q orrections Off req Rel: Int (S)	WAtten: 40 dB Preamp: Off	PNO Fast	Avg Type: Log-F	INVER 1		Concentration of the local division of the l		
Spectrum cale/Div 10 dB				IF Gain Low	Avg[Hold: 62/10 Trig: Erne Run			Select Mark Marker 1	ker	
cale/Div 10 dB			Ref Lvl Offset 3.	40 dB	M	(r1 19.40	GHz	Marker Fre 19.400000	quency 1000 GHz	Settings
.og			Ref Level 33.40 o	dBm		-26.55	dBm	Peak	Search	Peak Search
							_	Next	Peak	Pk Search Config
								Next F	Pk Right	Properties
\$ 4D								Next	Pk Left	Marker Function
						DL1-1	I 00 dBm	Minimu	ım Peak	Marker
26.6						But much m	1	Pk-Pk	Search	Counter
36.6	terene recently all	Hannahallan			AD DUCKEL AND			Marke	er Delta	
								Mkr	→CF	
								Mkr-+	Ref LVI	
tart 10,000 GHz tes BW 3.0 MHz			Video BW 50 N	ИНz	Sweep	Stop 20.0	00 GHz 01 pts)	Continuour Search On	s Peak	

Band4-High Channel-15MHz Bandwidth-10GHz to 20GHz

Spectrum Analyzer 1 Swept SA	+					🗘 Marker	1 4
KEYSIGHT Input: RF Coupling: DG Align: Auto	Input Z 50 Q Corrections Off Freq Ref. Int (S)	WAtten: 40 dB Preamp: Off	PNO Fast Gate Off IF Gain Low Sig Track Off	Avg Type: Log-Power Avg[Hold >100/100 Tng: Erne Run		Select Marker Marker 2	
1 Spectrum • Scale/Div 10 dB	1	Ref LvI Offset 3. Ref Level 33.40	40 dB dBm			Marker Mode	Settlings Peak Search
23.4						Normal Delta (Δ)	Pk Search Config
3 45						Fixed	Properties Marker Function
16.6				\_ <sup>1</sup>	DL1-13 00 dBm	Delta Marker (Reset Delta)	Marker+
-26.6	ngnorginomorpitionadare	م المسم المستر المسالية ال	muuntaahumidaa	-	how water and a state	Marker Table On Off	Counter
-46.6						Marker Settings Diagram	
Start 0.0300 GHz		Video BW 50 M	ИНz	Streep 1 00	op 1.0000 GHz	All Markers Off Couple Markers On	
to C L	? Jul 28, 2022 2:18:18 AM			Sweep 1.00		Off	

Band4-High Channel-20MHz Bandwidth-30MHz to 1GHz

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Spectrum Analyzer 1 Swept SA	+					Marker	· · · 🛱
KEYSIGHT Input RF Couping DC Align Auto	Input Z 50 Q Corrections Off Freq Rel: Int (S)	WAtten: 40 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold: 46/100 Trig: Free Run		Select Marker Marker 2	
1 Spectrum V		Ref LvI Offset 3.	40 dB	Mkr2	3.997 GHz	Marker Frequency 3.997000000 GHz	Settings
Scale/Div 10 dB		Ref Level 33.40	dBm		7.62 dBm	Peak Search	Peak Search
783 Y						Next Peak	Pk Search Config
1364						Next Pk Right	Properties
3.40						Next Pk Left	Marker Function
10.60					DL1-13 00 dBm	Minimum Peak	Marker
-26.6	2					Pk-Pk Search	Counter
36 6 moderate daman	and a stand and	where we want	an and an agen	Hargerstanson of the Menorie and all of	Mungulanan	Marker Delta	
-46.6						Mkr→CF	1
56.0						MkrRef Lvi	1
Start 1.000 GHz Res BW 3.0 MHz		Video BW 50 M	MHz	Steep ~16.2	op 10.000 GHz ms (1001 pts)	Continuous Peak Search On	
47C1	? Jul 28, 2022 2:17:43 AM				X	Off	

Band4-High Channel-20MHz Bandwidth-1GHz to 10GHz



Band4-High Channel-20MHz Bandwidth-10GHz to 20GHz

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KEYSIGHT Input RF Couping Align Aut	06 Corrections Of Freq Ref. Int (S	WAtten: 44 dB f Preamp: Off i)	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold >100/100 Trig: Eree Run		Select Marker Marker 1	
Spectrum		Ref LvI Offset 3.	40 dB	Mkr1 7	50.71 MHz	Marker Frequency 750.710000 MHz	Settings
Cale/Div 10 dB		Ref Level 33.40	dBm		34.74 dBm	Peak Search	Peak Search
						Next Peak	Pk Searc Config
						Next Pk Right	Propertie
s ari						Next Pk Left	Marker Function
					DL1-13-00 dBm	Minimum Peak	Marker
						Pk-Pk Search	Counter
55 15 addature to Artholic	and an adding the second states of the	and the second states of the	م مراجع المراجع ومناقع المقاهر المحالي ( المو	and the second of the second	Anto the state of the second	Marker Delta	
16.6						Mkr-+CF	
						Mkr-+Ref Lvi	1
tart 0.0300 GHz Res BW 1.0 MHz		#Video BW 3.0	MHz	Silveep 1.00	top 1.0000 GHz ) ms (1001 pts)	Continuous Peak Search On	1

Band4-Middle Channel-1.4MHz Bandwidth-30MHz to 1GHz



Band4-Middle Channel-1.4MHz Bandwidth-1GHz to 10GHz

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EVELCHT Input RE						
Couping DG. Augn Auto	Input Z 50 Q #Atten Corrections Off Preamp Freq Rel: Int (S)	44 dB PNO Fast Off Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold: 37/100 Trig: Free Run		Select Marker Marker 1	
Spoctrum •	Ref LvI Q	Offset 3.40 dB	Mkrt	19.79 GHz	Marker Frequency 19.790000000 GHz	Settings
ale/Div 10 dB	Ref Leve	1 33,40 dBm		27.78 dBm	Peak Search	Peak Search
					Next Peak	Pk Search Config
					Next Pk Right	Properties
40					Next Pk Left	Marker Function
6 6				DL1-13.00 dBm	Minimum Peak	Marker
					Pk-Pk Search	Counter
55	hearteness and a service	the home the stand of the stand	and a second the property and and		Marker Delta	
					Mkr→CF	
					MkrRef Lvi	
art 10.000 GHz Res BW 1.0 MHz	#Video	BW 3.0 MHz	Steep ~18.5	op 20.000 GHz ms (1001 pts)	Continuous Peak Search On	

Band4-Middle Channel-1.4MHz Bandwidth-10GHz to 20GHz

Spectrum Analy Swept SA	zer 1	+					Mark	er r 🏤
	Input RF Couping DG Align Auto	Input Z 50 Q Corrections Off Freq Ref. Int (S)	#Atten: 44 dB Preamp: Off	PNO Fast Gate Off IF Gate Low	Avg Type: Log-Power Avg[Hold >100/100 Tng: Free Run		Select Marker Marker 1	
1 Spectrum	*		Ref LvI Offset 3.	40 dB	Mkrt 8	29.28 MHz	Marker Frequency 829.280000 MHz	Settings
Scale/Div 10 d	B		Ref Level 33.40	dBm		34.60 dBm	Peak Search	Peak Search
73.4							Next Peak	Pk Search Config
13.4							Next Pk Right	Properties
75 411							Next Pk Left	Marker Function
5.60						DL1-13-00 dBm	Minimum Peak	Marker
-26.6							Pk-Pk Search	Counter
-36 6	manufal America a defen	. Multer Lander Art	العام والمروسة وجاجع المسادير	and an other and a start	LILLINGALALANA AND	managalana	Marker Delta	
-46.6							Mkr-+CF	
55.0							Mkr-+Ref Lvi	
Start 0.0300 G #Res BW 1.0 M	Hz 1Hz		#Video BW 3.0	MHz	Sweep 1.00	top 1.0000 GHz ) ms (1001 pts)	Continuous Peak Search On	
15	C 1	Jul 28, 2022	9		🔌	X	Off	

Band4-Middle Channel-3MHz Bandwidth-30MHz to 1GHz

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Swept SA						Marker	
KEYSIGHT Input RF Chuping DC Align Auto	Input 2:50 Q Corrections Off Freq Ref: Int (S)	WAtten: 44 dB Preamp: Off.	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power AvgiHold: 34/100 Trig: Eree Run		Select Marker Marker 2	
1 Spectrum		Ref LvI Offset 3.	40 dB	Mkr2	3.682 GHz	Marker Frequency 3.682000000 GHz	Settings
Scale/Div 10 dB		Ref Level 33.40	dBm	-1	28.82 dBm	Peak Search	Peak Search
73.4						Next Peak	Pk Search Config
13.4						Next Pk Right	Properties
3.40						Next Pk Left	Marker Function
10.0					DL1-13 00 dBm	Minimum Peak	Marker
-26.6	2					Pk-Pk Search	Counter
-36 6 and many and many har to water	anim presents	and a stand and	mushamagenerication	elaudhartraspektions bilanger	errowinghter	Marker Delta	
						Mkr-+CF	1
						Mkr-+Ref Lvi	1
Start 1.000 GHz #Res BW 1.0 MHz		#Video BW 3.0	MHz	Sweep ~16.2	op 10.000 GHz ms (1001 pts)	Continuous Peak Search On	1
4 h c 1 ?	Jul 28, 2022	9			X	Off	

Band4-Middle Channel-3MHz Bandwidth-1GHz to 10GHz



Band4-Middle Channel-3MHz Bandwidth-10GHz to 20GHz

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wept SA						-	marke	
	terref pling DC. h: Auto	Corrections Off Freq Ref. Int (S)	WAtten: 44 d8 Preamp: Off	Gate Off LF Gain Low	Avg Type: Log-Power Avg[Hold >100/100 Thg: Eree Run		Select Marker Marker 1	
of Spoctrum			Ref LvI Offset 3.	40 dB	Mkr1 8	03.09 MHz	Marker Frequency 803.090000 MHz	Settings
cale/Div 10 dB			Ref Level 33.40	dBm		34.36 dBm	Peak Search	Peak Search
							Next Peak	Pk Search Config
							Next Pk Right	Properties
1 411							Next Pk Left	Marker Function
						DL1-13 00 dBm	Minimum Peak	Marker
26.6							Pk-Pk Search	Counter
16 16	n natural states	والمعادية والمعادية والمعادية	warmonowith	and and a low and a low and a low and a low a low and a low a	an and a second s	angente the start port	Marker Delta	
							Mkr-+CF	
							Mkr-+Ref Lvi	
tart 0.0300 GHz Res BW 1.0 MHz			#Video BW 3.0	MHz	St Sweep 1.00	op 1.0000 GHz ms (1001 pts)	Continuous Peak Search On	

Band4-Middle Channel-5MHz Bandwidth-30MHz to 1GHz



Band4-Middle Channel-5MHz Bandwidth-1GHz to 10GHz

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Spectrum Analyzer Swept SA	1 1	÷					Marker Marker	· · 🖧
	ut RF uping DC In Auto	Input Z 50 Q Corrections Off Freq Ref: Int (S)	WAtten: 44 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg Hold: 26/100 Trig: Errie Run		Select Marker Marker 1	
1 Spectrum			Ref LvI Offset 3.	40 dB	Mkrt	18.97 GHz	Marker Frequency 18.970000000 GHz	Settings
Scale/Div 10 dB			Ref Level 33,40	dBm	-	27.58 dBm	Peak Search	Peak Search
							Next Peak	Pk Search Config
							Next Pk Right	Properties
							Next Pk Left	Marker Function
						DL1-13 00 dBm	Minimum Peak	Marker
28.8						<b>1</b>	Pk-Pk Search	Counter
30 5	na opposately	bearmal guest proven	and the second second second	mmunadassaa	Nuteristania seather and	and sector that plays	Marker Delta	
							Mkr-+CF	1
							Mkr-+Ref Lvi	1
Start 10.000 GHz #Res BW 1.0 MHz			#Video BW 3.0	MHz	Steep ~18.5	op 20.000 GHz ms (1001 pts)	Continuous Peak Search On	1
4 h C		Jul 28, 2022	9			X	Off	

Band4-Middle Channel-5MHz Bandwidth-10GHz to 20GHz



Band4-Middle Channel-10MHz Bandwidth-30MHz to 1GHz

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Band4-Middle Channel-10MHz Bandwidth-1GHz to 10GHz

Spectrum Analyzer 1	+					Marker	1
KEYSIGHT Input RF Couping DC Align Auto	Input 2:50 Q Corrections Off Freq Ref. Int (S)	WAttern 34 dB Preamp Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold: 59/100 Trig: Free Run		Select Marker Marker 1	
1 Spectrum T		Ref LvI Offset 3.	40 dB	Mkrt	18.73 GHz	Marker Frequency 18.730000000 GHz	Settings
Scale/Div 10 dB		Ref Level 27.40	dBm		1.22 dBm	Peak Search	Peak Search
12.4						Next Peak	Pk Search Config
7-40						Next Pk Right	Properties
2 80					DL1-0.60 dBm	Next Pk Left	Marker Function
						Minimum Peak	Marker
-32.8					1	Pk-Pk Search	Counter
4, san stall and share the stall s	nonorhebeneral provides	mangla his managements we have	the state of the second second	and a second sec	and a second second	Marker Delta	
-57.15						Mkr-+CF	1
02.0						Mkr-+Ref LVI	1
Start 10.000 GHz Res BW 3.0 MHz		Video BW 50 N	NHz	Sto Sweep ~18.5	op 20.000 GHz ms (1001 pts)	Continuous Peak Search On	
47C1'	Jul 28, 2022	9			X	Off	

Band4-Middle Channel-10MHz Bandwidth-10GHz to 20GHz

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wept SA						maine	
EYSIGHT Input RF Couping DC Align: Auto	Input 2:50 Q Corrections Off Freq Ref. Int (S)	WAtten: 38 dB Preamp: Off.	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold >100/100 Trg: Free Run		Select Marker Marker 1	
/ Spoctrum T		Ref LvI Offset 3.	40 dB	Mkrt 8	58.38 MHz	Marker Frequency 858.380000 MHz	Settings
cale/Div 10 dB		Ref Level 31.40	dBm		40.41 dBm	Peak Search	Peak Search
						Next Peak	Pk Search Config
						Next Pk Right	Properties
					ni i a fui dan	Next Pk Left	Marker Function
n.n.						Minimum Peak	Marker
						Pk-Pk Search	Counter
					1	Marker Delta	
or the second se	us-hannenscionpeteram	and the second sec	where the stand and the stand the second stand is the second stand in the second stand s	Man live of the states of	and an other the	Mkr-+CF	
						Mkr-+Ref Lvi	
art 0.0300 GHz Res BW 1.0 MHz		#Video BW 3.0	MHz	Steep 1.00	op 1.0000 GHz ms (1001 pts)	Continuous Peak Search On	1

Band4-Low Channel-1.4MHz Bandwidth-30MHz to 1GHz



Band4-Low Channel-1.4MHz Bandwidth-1GHz to 10GHz

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swept SA	1	÷					Marker	1 2
	ut RF uping DC. gn: Auto	Input Z 50 Q Corrections Off Freq Ref. Int (S)	WAtten: 38 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold: 64/100 Trig: Eree Run		Select Marker Marker 1	
M I Spectrum			Ref LvI Offset 3.	40 dB	Mkr1	14.58 GHz	Marker Frequency 14.580000000 GHz	Settings
Scale/Div 10 dB			Ref Level 31.40	dBm		34.75 dBm	Peak Search	Peak Search
							Next Peak	Pk Search Config
							Next Pk Right	Properties
1 40						th i g ili dum	Next Pk Left	Marker Function
10 6							Minimum Peak	Marker
							Pk-Pk Search	Counter
Station Land Land	havenalthillion	Annal and the manual the	mounderstand	here frameric and the second	with the second s	ارما <mark>م بار</mark> اده مید. موردان	Marker Delta	
							Mkr-+CF	
							Mkr-+Ref Lvi	
tart 10.000 GHz Res BW 1.0 MHz			#Video BW 3.0	MHz	Sweep ~18.5	op 20.000 GHz ms (1001 pts)	Continuous Peak Search On	
120		Jul 27, 2022	-			50	Off	

Band4-Low Channel-1.4MHz Bandwidth-10GHz to 20GHz

Spectrum Analyzer 1 , Swept SA	+					Marker	· · · ·
KEYSIGHT Input RF Coupling DC Align Auto	Input Z 50 Q Corrections Off Freq Ref. Int (S)	#Atten: 38 dB Preamp: Off	PNO: Fast Gate: Off IF Gain: Low Sin Track: Off	Avg Type: Log-Power Avg[Hold >100/100 Trig: Free Run		Select Marker Marker 1	
1 Spectrum		Ref LvI Offset 3.	40 dB	Mkr1 8	28.31 MHz	Marker Frequency 828,310000 MHz	Settings
Scale/Div 10 dB		Ref Level 31.40 c	1Bm		34.26 dBm	Peak Search	Peak Search
21.4						Next Peak	Pk Search Config
îL4						Next Pk Right	Properties
7 40						Next Pk Left	Marker
					DL 1-13-00 dBm	Minimum Peak	Marker-+
29.8						Pk-Pk Search	Counter
-38 6 Marsh Sun research American	undraumanan andre	man manager and the second	manyalipeties	. dawn mawn an an Raman		Marker Delta	
_19 (5)						Mkr→CF	1
58.0						Mkr-+Ref Lvi	1
Start 0.0300 GHz Res BW 3.0 MHz		Video BW 50 N	۱Hz	Sweep 1.00	top 1.0000 GHz ) ms (1001 pts)	Continuous Peak Search On	1
-	2 Jul 28, 2022 12:05:08 AM				X	Off	

Band4-Low Channel-3MHz Bandwidth-30MHz to 1GHz

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Swept SA	3					Marker	
KEYSIGHT Input RF Couping DC Align Auto	Input Z 50 Q Corrections Off Freq Ref. Int (S)	WAtten: 38 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold: 49/100 Trig: Erice Run		Select Marker Marker 2	
1 Spectrum		Ref LvI Offset 3.	40 dB	Mkr2	4.024 GHz	Marker Frequency 4.024000000 GHz	Settings
Scale/Div 10 dB		Ref Level 31.40	dBm		30.42 dBm	Peak Search	Peak Search
714 Y						Next Peak	Pk Search Config
ÎL4						Next Pk Right	Properties
1 40						Next Pk Left	Marker Function
15.6					DL1-13-00 dBm	Minimum Peak	Marker
-28.6	¢2					Pk-Pk Search	Counter
38.6 some all harring martine	- A BOLE AL AL AND DE AL	mitchelmenter	and the stand of t	and a support of the second	lermannenalmera	Marker Delta	
						Mkr→CF	
						Mkr-+Ref Lvi	
Start 1.000 GHz Res BW 3.0 MHz		Video BW 50 M	MHz	Steep ~16.2	op 10.000 GHz ms (1001 pts)	Continuous Peak Search On	
·····	Jul 28, 2022 12:06:19 AM					Off	

Band4-Low Channel-3MHz Bandwidth-1GHz to 10GHz



Band4-Low Channel-3MHz Bandwidth-10GHz to 20GHz

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Swept SA	1				and the second		Marke	1 10
	aut RF Noting DC. gn: Auto	Input 2:50 Ω Corrections Off Freq Ref: Int (S)	#Atten: 40 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type Log-Power Avg[Hold >100/100 Trg: Free Run		Select Marker Marker 1	
1 Spectrum			Ref LvI Offset 3.	40 dB	Mkr1 8	26.37 MHz	Marker Frequency 826.370000 MHz	Settings
Scale/Div 10 dB			Ref Level 33.40	dBm	4	6.27 dBm	Peak Search	Peak Search
							Next Peak	Pk Search Config
							Next Pk Right	Properties
3 40							Next Pk Left	Marker Function
10.01						DL1-13 00 dBm	Minimum Peak	Marker
							Pk-Pk Search	Counter
					<b>1</b>		Marker Delta	
-46.6	ue that must be a loss	where the state of the second	approved when the	nagana perintera	glantined line program and the constant	and all and a second	Mkr-+CF	
							Mkr-+Ref Lvi	
Start 0.0300 GHz #Res BW 1.0 MHz			#Video BW 3.0	MHz	Steep 1.00	op 1.0000 GHz ms (1001 pts)	Continuous Peak Search On	
100		Jul 28, 2022	9			X	Off	

Band4-Low Channel-5MHz Bandwidth-30MHz to 1GHz



Band4-Low Channel-5MHz Bandwidth-1GHz to 10GHz

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Swept SA	-	+					Marker	1 20
	put RF Suping DC, ign: Auto	Input 2 50 Q Corrections Off Freq Ref. Int (S)	WAtten: 40 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type Log-Powe AvgiHold: 18/100 Tng: Free Run		Select Marker Marker 1	
M I Spectrum	*		Ref LvI Offset 3.	40 dB	Mkr1	19.09 GHz	Marker Frequency 19.090000000 GHz	Settings
Scale/Div 10 dB			Ref Level 33.40	dBm		-31.57 dBm	Peak Search	Peak Search
							Next Peak	Pk Search Config
							Next Pk Right	Properties
3 411							Next Pk Left	Marker Function
						DL1-13 00 dBm	Minimum Peak	Marker
26.6						1	Pk-Pk Search	Counter
56 6 QARABARA	philippinet and go	+Harry- Josefer Harry	server water and the server and the	Schentzlaywothelawa	ad an destroyed and a second second	Wehner popular	Marker Delta	
							Mkr-+CF	
							Mkr-+Ref Lvi	
tart 10,000 GHz Res BW 1.0 MHz	t		#Video BW 3.0	MHz	Sweep ~18.	Stop 20.000 GHz 5 ms (1001 pts)	Continuous Peak Search On	
100		Jul 28, 2022				56	01	

Band4-Low Channel-5MHz Bandwidth-10GHz to 20GHz

Spectrum Analyzer 1	÷					Marker	* 1
KEYSIGHT Input: RF Couping: DC Augn: Auto	Input 2:50 Q Corrections Off Freq Ref. Int (S)	#Atten: 40 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold >100/100 Tng: Free Run		Select Marker Marker 1	
1 Spectrum Y		Ref LvI Offset 3.	40 dB	Mkrt 9	21.43 MHz	Marker Frequency 921,430000 MHz	Settings
Scale/Div 10 dB		Ref Level 33.40	dBm	~	3.13 aBm	Peak Search	Peak Search
23.8						Next Peak	Pk Search Config
13,4						Next Pk Right	Properties
3.40						Next Pk Left	Marker Function
16.6					DL1-13 00 dBm	Minimum Peak	Marker
-26.6						Pk-Pk Search	Counter
-36 6 gandulanariandanaran	المحربية والمجاورين والإفراني	-	ه جاييل مېخ الرو اور او وا	ad a new White on a second war and	proved and a second	Marker Delta	
-46.6						Mkr-+CF	1
56.0						Mkr-+Ref Lvi	1
Start 0.0300 GHz Res BW 3.0 MHz		Video BW 50 N	MHz	Sto Sweep 1.00	op 1.0000 GHz ms (1001 pts)	Continuous Peak Search On	1
4501	? Jul 28, 2022 12:15:56 AM	9			×	Off	

Band4-Low Channel-10MHz Bandwidth-30MHz to 1GHz

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Band4-Low Channel-10MHz Bandwidth-1GHz to 10GHz

Spectrum Analyzer 1 Swept SA	÷					Marker	1
KEYSIGHT Input: RF Coupling: DC Align: Auto	Input Z 50 Q Corrections Off Freq Ref. Int (S)	#Atten: 40 dB Preamp Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold: 18/100 Trig: Free Run		Select Marker Marker 1	
1 Spectrum		Ref LvI Offset 3.	40 dB	Mkrt	19.45 GHz	Marker Frequency 19.450000000 GHz	Settings
Scale/Div 10 dB		Ref Level 33.40	dBm		31.35 dBm	Peak Search	Peak Search
73.4						Next Peak	Pk Search Config
13,4						Next Pk Right	Properties
3 411						Next Pk Left	Marker Function
0.62					DL1-13 00 dBm	Minimum Peak	Marker+
26.6					41	Pk-Pk Search	Counter
38 6 mar	and and a stand and a stand and a	mushaleteraleteral	Winneres Winkertightness	an nel new nershallower	shapplant and	Marker Delta	
-46.6						Mkr-+CF	
560						Mkr+Ref Lvi	1
Start 10.000 GHz #Res BW 1.0 MHz		#Video BW 3.0	MHz	Sweep ~18.5	op 20.000 GHz ms (1001 pts)	Continuous Peak Search On	1
4 h C 1	? Jul 28, 2022				X	Off	

Band4-Low Channel-10MHz Bandwidth-10GHz to 20GHz

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EYSIGHT Input RF Inp Coupling DG Co Align Auto Fr	put 2 50 Q #Atten: 42 dB prections Off Preamp Off req Ref. Int (S)	PNO Fast Gate Off IF Gain Low	Avg Type Log-Power Avg[Hold >100/100 Trig. Free Run	121430 MWWWWW	Select Marker Marker 1	
a Spectrum v	Ref LvI Offset	Sig Track: Off	Mkr1 9	06.88 MHz	Marker Frequency 906.880000 MHz	Settings
	Rei Level 53.4	U GBIN		1.50 ubm	Peak Search	Search
					Next Peak	Pk Search Config
					Next Pk Right	Properties
1.471					Next Pk Left	Marker Function
10.0				DL1-13 00 dBm	Minimum Peak	Marker
				17	Pk-Pk Search	Counter
to a marken welling a more than a firm of the start of th	land query and a provide stand	والاستريبي أوفاقه والمرود مشاهده	wanter the street	Harper many and	Marker Delta	
					Mkr-+CF	
					Mkr-+Ref Lvi	
tart 0.0300 GHz Video BW 50 MHz Stop 1.0000 GHz					Continuous Peak Search On	1

Band4-Low Channel-15MHz Bandwidth-30MHz to 1GHz



Band4-Low Channel-15MHz Bandwidth-1GHz to 10GHz

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	put RF Supping DG ign: Auto	Input Z 50 Q Corrections Off Freq Rel: Int (S)	WAtten: 36 dB Preamp Off	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log-Power AvgiHold: 57/100 Trig: Free Run		Ref Level 29.40 dBm	Y Scale
I Spoctrum	*		Ref LvI Offset 3.	40 dB	Mkr2	19.79 GHz	Scale/Div 10 dB	Attenuatio
Scale/Div 10 dB			Ref Level 29,40	dBm		31.93 dBm	Display Scale Log Lin	Signal Pa
							Y Axis Unit dBm	
							Ref Level Offset 3.40 dB	
							On Off	
90.6 بىرىلىرى بىرى	anged from the de	hor superior and an orall the	transfel with participants	-haven-scrittlattist.ready	whether the second states and second	had a market water and	Number of Divisions	
4U.6 50 6								
tart 10,000 GHz tes BW 3.0 MHz			Video BW 50 M	ИНz	St Sweep ~18.5	op 20.000 GHz ms (1001 pts)		
100		Jul 28, 2022	9			X		

Band4-Low Channel-15MHz Bandwidth-10GHz to 20GHz

Spectrum Analyzer 1 Swept SA		+					🗘 Ma	irker 🔹
KEYSIGHT Inpu	t RF bing DC. I Auto	Input Z 50 Q Corrections Off Freq Ref. Int (S)	WAttern 36 dB Preamp Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold >100/100 Trig: Free Run		Select Marker Marker 1	
1 Spectrum	*		Ref LvI Offset 3.	40 dB	Mkr1 8	69.05 MHz	Marker Frequence 869.050000 MH	y Settings
Scale/Div 10 dB			Ref Level 29.40	dBm		37.43 GBM	Peak Search	Peak Search
18i ð							Next Peak	Pk Search Config
U.40							Next Pk Righ	t Properties
.0.60							Next Pk Lef	Marker Function
-10.6						1811-12.00 dBm	Minimum Per	k Marker→
-30.6							Pk-Pk Searc	h Counter
-40.6 monoral surder	molonomen	، بەرمەرلىغەرچىرىيە غۇلىكە خەلھىمە م	ين من	Language Mary Sugar Pray	a party and a party and a party and a party and a party of the party o	monstationer	Marker Delta	
-50.6							Mkr-+CF	
-00.0							Mkr-+Ref LV	
Start 0.0300 GHz Res BW 3.0 MHz			Video BW 50 N	ИНz	Steep 1.00	op 1.0000 GHz ms (1001 pts)	Continuous Peak Search On	
17C		Jul 28, 2022 12:24:31 AM	9			X	Off	

Band4-Low Channel-20MHz Bandwidth-30MHz to 1GHz

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Band4-Low Channel-20MHz Bandwidth-1GHz to 10GHz



Band4-Low Channel-20MHz Bandwidth-10GHz to 20GHz

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# 6.5.8 CAT-M B12 Conducted Spurious Emission Results

High Channel-1.4MHz Bandwidth-30MHz to 1GHz



High Channel-1.4MHz Bandwidth-1GHz to 10GHz

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	RF Ngr DC.	Input Z: 50 Q Corrections: Off	#Atten: 40 dB Preamp: Off	PNO Fast Gate Off	Avg Typer Log- Avg[Hold >100	Power /100		Select Marker	
Align /	Auto	Freq Rel: Int (S)		IF Gain Low Sig Track: Off	Ing: Eree Run		PNNNNN	Marker 2	-
1 Spectrum			Ref LvI Offset 3.	40 dB	Mk	r2 16	7.74 MHz	Marker Frequency 167.740000 MHz	Settings
Scale/Div 10 dB			Ref Level 33.40	dBm		-3	4.57 dBm	Peak Search	Peak Search
					01			Next Peak	Pk Search Config
					-			Next Pk Right	Properties
3 40								Next Pk Left	Marker Function
46.6							DL1-13.00 dBm	Minimum Peak	Marker
					1 I.I.			Pk-Pk Search	Counter
36 6 partian destay and been as	2 Instantion	ويواد المراجع المراجع المراجع	-	and an and the second second	1 William	num plue	un anti-	Marker Delta	
								Mkr-+CF	
								Mkr-+Ref Lvi	
Start 0.0300 GHz Res BW 3.0 MHz			Video BW 50 N	NHz	Swee	Sto p 1.00 r	p 1.0000 GHz ns (1001 pts)	Continuous Peak Search On	1

High Channel-3MHz Bandwidth-30MHz to 1GHz



High Channel-3MHz Bandwidth -1GHz to 10GHz

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High Channel-5MHz Bandwidth-30MHz to 1GHz



High Channel-5MHz Bandwidth-1GHz to 10GHz

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High Channel-10MHz Bandwidth-30MHz to 1GHz



High Channel-10MHz Bandwidth-1GHz to 10GHz

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Middle Channel-1.4MHz Bandwidth-30MHz to 1GHz



Middle Channel-1.4MHz Bandwidth-1GHz to 10GHz

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Middle Channel-3MHz Bandwidth-30MHz to 1GHz



Middle Channel-3MHz Bandwidth-1GHz to 10GHz

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Middle Channel-5MHz Bandwidth-30MHz to 1GHz



Middle Channel-5MHz Bandwidth-1GHz to 10GHz

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Middle Channel-10MHz Bandwidth-30MHz to 1GHz



Middle Channel-10MHz Bandwidth-1GHz to 10GHz

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Low Channel-1.4MHz Bandwidth-30MHz to 1GHz



Low Channel-1.4MHz Bandwidth-1GHz to 10GHz

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KEYSIGHT Input RF Coupling DC Align Auto	Input Z 50 Q Corrections Off Freq Rel: Int (S)	Atten: 40 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type Log-Power Avg[Hold >100/100 Trig. Erice Run		Select Marker Marker 2	
1 Spectrum 🕴		Ref LvI Offset 3.	40 dB	Mkr2 5	57.68 MHz	Marker Frequency 557,680000 MHz	Settings
Log		Ref Level 33.40	dBm	<u></u>	40.65 aBm	Peak Search	Peak Search
						Next Peak	Pk Search Config
						Next Pk Right	Properties
3 40						Next Pk Left	Marker Function
16.6					DL1-13 00 dBm	Minimum Peak	Marker
						Pk-Pk Search	Counter
-36.6			2	Nultitute a state of the	dan e ser a ser a s	Marker Delta	
-46.6		and the state of the state of the state	hand all any history of the second	all showing an operation of the		Mkr→CF	
						MkrRef Lvi	
Start 0.0300 GHz #Res BW 1.0 MHz		#Video BW 3.0	MHz	St Sweep 1.00	op 1.0000 GHz ms (1001 pts)	Continuous Peak Search On	1

Low Channel-3MHz Bandwidth-30MHz to 1GHz



Low Channel-3MHz Bandwidth-1GHz to 10GHz

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Low Channel-5MHz Bandwidth-30MHz to 1GHz



Low Channel-5MHz Bandwidth-1GHz to 10GHz

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Low Channel-10MHz Bandwidth-30MHz to 1GHz



Low Channel-10MHz Bandwidth-1GHz to 10GHz

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# 6.5.9 CAT-M B13 Conducted Spurious Emission Results

High Channel-5MHz Bandwidth-30MHz to 1GHz



High Channel-5MHz Bandwidth-1GHz to 10GHz

**Chongqing Academy of Information and Communication Technology** 







High Channel-10MHz Bandwidth-30MHz to 1GHz



High Channel-10MHz Bandwidth-1GHz to 10GHz

**Chongqing Academy of Information and Communication Technology**






Middle Channel-5MHz Bandwidth-30MHz to 1GHz

Spectrum Ana Swept SA	lyzer 1	+			-		🗘 Mark	er v 📸
	Input RF Couping DG Align Auto	Input 2 50 0 Corrections Off Freq Ref Int (S)	Atten 38 dB Proamp Off	PNO Fast Gate Off IF Gain Low	Avg Typer Log-Power Avg[Hold: 33/100 Trig: Free Run		Select Marker Marker 1	
1 Spectrum			Ref LvI Offset 3	.40 dB	Mkrt 9	9.757 GHz	Marker Frequency 9.757000000 GHz	Settings
Scale/Div 10	dB		Ref Level 30.40	dBm	-3	5.08 dBm	Peak Search	Peak Search
20.4							Next Peak	Pk Search Config
10.4							Next Pk Right	Properties
0.400							Next Pk Left	Marker
-0.60						101. T-13 00 dBm	Minimum Peak	Marker
29.6							Pk-Pk Search	Counter
-39.6	a dealer wild	and we have a start and a st	and the and the are in	millementingener	ral to the second of the second second	monimater	Marker Delta	
-4.9 15	- The second sec						Mkr-+CF	
39.0							Mkr-+Ref Lvi	
Start 1.000 G #Res BW 1.0	Hz MHz		#Video BW 3.0	MHz	Sweep ~16.2	op 10.000 GHz ms (1001 pts)	Continuous Peak Search On	
15	CI	2 Jul 28, 2022 7:47:54 PM				X	Off	

Middle Channel-5MHz Bandwidth-1GHz to 10GHz

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Middle Channel-10MHz Bandwidth-30MHz to 1GHz



Middle Channel-10MHz Bandwidth-1GHz to 10GHz

**Chongqing Academy of Information and Communication Technology** 







Low Channel-5MHz Bandwidth-30MHz to 1GHz

Spectrum Ana Swept SA	llyzer 1	+			-		<b>Ö</b>	Marker r
	T Input RF Couping DC Align: Auto	Input Z 50 Q Corrections Off Freq Ref Int (S)	Atten 38 dB Preamp Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold: 33/100 Trig: Eree Run		Select Marker Marker 1	
1 Sportrum				Sig Track Off	Mkr1	757 GHz	Marker Freque	ncy Settings
Scale/Div 10	dB		Ref Level 30.40	dBm	-3	5.08 dBm	9.757000000	Peak
Log						T	Peak Sea	rch Search
20.4							Next Pea	ek Pk Search Config
10.4							Next Pk R	ght Properties
0.400						-	Next Pk L	eft Marker Function
19.0						11L 1-12 UI dBm	Minimum P	Peak Marker
-29.6						1	Pk-Pk Sea	rch Counter
-39.6	- to alice to the first the	popular propher and so	with the and the age in	millimentinentropense	ral president and the black	monorder	Marker De	alta
-40 E							Mkr-+Cl	3
-59.0							MkrRef	LVI
Start 1.000 G #Res BW 1.0	Hz MHz		#Video BW 3.0	MHz	Steep ~16.2	op 10.000 GHz ms (1001 pts)	Continuous Pe Search On	ak
15	C	? Jul 28, 2022 7:47:54 PM				X	Off	

Low Channel-5MHz Bandwidth-1GHz to 10GHz

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Low Channel-10MHz Bandwidth-30MHz to 1GHz



Low Channel-10MHz Bandwidth-1GHz to 10GHz

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# 6.5.10 CAT-M B26 Conducted Spurious Emission Results (814MHz-824MHz)

High Channel-1.4MHz Bandwidth-30MHz to 1GHz



High Channel-1.4MHz Bandwidth-1GHz to 10GHz

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High Channel-3MHz Bandwidth-30MHz to 1GHz



High Channel-3MHz Bandwidth-1GHz to 10GHz

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	Input 2:50 Q Atten: 40 d Corrections Off Preamp O	B PNO Fast tt Gate Off	Avg Type: Log-Power Avg[Hold>100/100	121456	Select Marker	
Align: Auto	Freq Ref Int (S)	IF Gain Low Sig Track Off	Ing: Erne Run	PNNNNN	Marker 2	
Spectrum T	Ref Lvi Off	set 3.40 dB	Mkr2 5	64.47 MHz	Marker Frequency 564,470000 MHz	Settings
cale/Div 10 dB	Ref Level 3	3.40 dBm	-3	39.48 dBm	Peak Search	Peak Search
					Next Peak	Pk Search Config
					Next Pk Right	Properties
5 40					Next Pk Left	Marker Function
16.6				DL1-13 00 dBm	Minimum Peak	Marker
			M h		Pk-Pk Search	Counter
		¢2	M M	(here a	Marker Delta	
sunstructure and a second s	have been and the second se	-Biter Stanflate programs and some	ADWARD IN I . W	Tre The second state	Mkr-+CF	
					MkrRef Lvi	
tart 0.0300 GHz Res BW 1.0 MHz	#Video BV	V 3.0 MHz	Steep 1.00	op 1.0000 GHz ms (1001 pts)	Continuous Peak Search On	1

High Channel-5MHz Bandwidth-30MHz to 1GHz



High Channel-5MHz Bandwidth-1GHz to 10GHz

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High Channel-10MHz Bandwidth-30MHz to 1GHz



High Channel-10MHz Bandwidth-1GHz to 10GHz

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Spectrum Analyz Swept SA	ter 1	+					Marke	ar 🔹 👬
	Input RF Coupling DC Align: Auto	Input 2 50 Q Corrections Off Freq Ref Int (S)	Atten 40 dB Proamp Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold >100/100 Trig: Eree Run		Select Marker Marker 2	
1 Spectrum	*		Ref LvI Offset 3	.40 dB	Mkr2 5	60.59 MHz	Marker Frequency 560.590000 MHz	Settings
Scale/Div 10 dB	3		Ref Level 33.40	dBm	-	19.05 dBm	Peak Search	Peak Search
					· ·		Next Peak	Pk Search Config
							Next Pk Right	Properties
3 40							Next Pk Left	Marker Function
						DL1-13 00 dBm	Minimum Peak	Marker→
							Pk-Pk Search	Counter
				¢ <sup>2</sup>		scherzskeit, der sie s	Marker Delta	
46.6	nin lant within a	unumeritere dere	an de la canada de l	anders and the second second			Mkr-+CF	
							MkrRef Lvi	
Start 0.0300 GH #Res BW 1.0 M	lz Hz		#Video BW 3.0	MHz	Steep 1.00	op 1.0000 GHz ms (1001 pts)	Continuous Peak Search On	
150		? Jul 29, 2022				X	Oil	

Middle Channel-1.4MHz Bandwidth-30MHz to 1GHz



Middle Channel-1.4MHz Bandwidth-1GHz to 10GHz

**Chongqing Academy of Information and Communication Technology** 





KEYSIGHT Input RF In Couping DC Co Align Auto Fr	nput Z 50 Q Atten: 40 dB corrections Off Proamp Off req Ref Int (S)	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold >100/100 Tog: Free Run		Select Marker Marker 2	
1 Spectrum T Scale/Div 10 dB	Ref LvI Offset : Ref Level 33,40	3.40 dB 0 dBm	Mkr2 2	88.02 MHz 39.87 dBm	Marker Frequency 288.020000 MHz	Settlings Peak
23.4			\$1		Normal	Search Pk Search Config
					Fixed	Properties Marker
				DL1-13.00 dBm	e of	Function Marker
-26.6	A2				(Reset Delta) Marker Table	Counter
-46 6	interestablement representer	erlanstenservischeidenste	commanded of Hilder	entertaine.	Marker Settings Diagram	
					All Markers Off	
Start 0.0300 GHz #Res BW 1.0 MHz	#Video BW 3.	0 MHz	Steep 1.00	op 1.0000 GHz ms (1001 pts)	Couple Markers On Off	

Middle Channel-3MHz Bandwidth-30MHz to 1GHz



Middle Channel-3MHz Bandwidth-1GHz to 10GHz

**Chongqing Academy of Information and Communication Technology** 





KEYSIGHT Input RF Couping Align Au	Input Z 50 Ω DG Corrections to Freq Ref Int	Atten: 40 dB Off: Preamp Off (S)	PNO Fast Gate Off IF Gain Low	Avg Type Log-Power Avg[Hold >100/100 Trig: Free Run		Select Marker Marker 2	
N/ Spectrum		Ref LvI Offset 3	40 dB	Mkr2 5	62.53 MHz	Marker Frequency 562.530000 MHz	Settings
cale/Div 10 dB		Ref Level 33.40	dBm		38.50 dBm	Peak Search	Peak Search
				1 Y.		Next Peak	Pk Search Config
						Next Pk Right	Properties
3 40						Next Pk Left	Marker Function
16.6					DL1-13.00 dBm	Minimum Peak	Marker
				11		Pk-Pk Search	Counter
			2			Marker Delta	
struggingh-schart brocks	Anine and the second second	warment of the particular	productions	Condition of the second s	A A A A A A A A A A A A A A A A A A A	Mkr-+CF	
						Mkr-+Ref Lvi	
tart 0.0300 GHz Res BW 1.0 MHz		#Video BW 3.0	MHz	Steep 1.00	op 1.0000 GHz ms (1001 pts)	Continuous Peak Search On	1

Middle Channel-5MHz Bandwidth-30MHz to 1GHz



Middle Channel-5MHz Bandwidth-1GHz to 10GHz

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Middle Channel-10MHz Bandwidth-30MHz to 1GHz



Middle Channel-10MHz Bandwidth-1GHz to 10GHz

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Low Channel-1.4MHz Bandwidth-30MHz to 1GHz



Low Channel-1.4MHz Bandwidth-1GHz to 10GHz

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#### Low Channel-3MHz Bandwidth-30MHz to 1GHz



Low Channel-3MHz Bandwidth-1GHz to 10GHz

**Chongqing Academy of Information and Communication Technology** 





	ut RF uping DC. gn: Aulo	Input Z 50 Q Corrections Off Freq Ref: Int (S)	Atten 40 dB Preamp Off	PNO Fast Gate Off IF Gain Low Sin Track Off	Avg Type Log-Power Avg[Hold >100/100 Trig. Free Run		Select Marker Marker 2	
1 Spectrum Scale/Div 10 dB	*		Ref LvI Offset 3. Ref Level 33.40	.40 dB dBm	Mkr2 2	24.00 MHz	Marker Frequency 224.000000 MHz	Settings
23.4							Marker Mode Normal	Search Pk Search
							Delta (Δ)	Properties
3 40							Fixed	Marker Function
					4	DL1-13 00 dBm	Delta Marker (Reset Delta)	Marker
		2					Marker Table On Off	Counter
46.6	hertheensagelier	and an and a second	and the second of the second o	liperskyrat werding	PAGENTING AND AND AND AND	ngeneration of the second s	K Marker Settings Diagram	
							All Markers Off	
Start 0.0300 GHz Res BW 1.0 MHz			#Video BW 3.0	MHz	Steep 1.00	op 1.0000 GHz ms (1001 pts)	Couple Markers On Off	1

Low Channel-5MHz Bandwidth-30MHz to 1GHz



Low Channel-5MHz Bandwidth-1GHz to 10GHz

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Low Channel-10MHz Bandwidth-30MHz to 1GHz



Low Channel-10MHz Bandwidth-1GHz to 10GHz

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# CAICT

#### Report No.: I22W00056-WWAN RF-Rev3

#### (824MHz-849MHz)



High Channel-1.4MHz Bandwidth-30MHz to 1GHz



High Channel-1.4MHz Bandwidth-1GHz to 10GHz

**Chongqing Academy of Information and Communication Technology** 





Spectrum Analyzer 1 Swept SA	+					Marke	· · · 📸
KEYSIGHT Input RF Couping DG Augn: Auto	Input 2:50 Q Corrections: Off Freq Ref: Int (S)	Atten 40 dB Preamp Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold >100/100 Trig: Eree Run		Select Marker Marker 2	
1 Spectrum		Ref LvI Offset 3	.40 dB	Mkr2 2	98.69 MHz	Marker Frequency 298.690000 MHz	Settings
Scale/Div 10 dB		Ref Level 33.40	dBm	-	39.91 dBm	Peak Search	Peak Search
						Next Peak	Pk Search Config
						Next Pk Right	Properties
3 40						Next Pk Left	Marker Function
					DL1-13 00 dBm	Minimum Peak	Marker
				<b>, ll</b> ,		Pk-Pk Search	Counter
	22				and house and	Marker Delta	
-466	an a subserve and a s	All a subsection of the subsection of				Mkr-+CF	
						Mkr-+Ref LVI	
Start 0.0300 GHz #Res BW 1.0 MHz		#Video BW 3.0	MHz	Si Sweep 1.00	top 1.0000 GHz ms (1001 pts)	Continuous Peak Search On	
1901	? Jul 29, 2022 1:43:24 AM	9			X	Off	

High Channel-3MHz Bandwidth-30MHz to 1GHz



High Channel-3MHz Bandwidth-1GHz to 10GHz

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Spectrum Analyzer Swept SA	1 1	E					C Marke	· · · 📸
	ut RF Iping DC In: Auto	Input Z 50 Q Corrections Off Freq Rel: Int (S)	Atten 40 dB Preamp Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Powe AvgjHold >100/100 Tng: Free Run		Select Marker Marker 2	
1 Spectrum	*		Ref LvI Offset 3	.40 dB	Mkr2 4	438.37 MHz	Marker Frequency 438.370000 MHz	Settings
Scale/Div 10 dB			Ref Level 33.40	dBm		-40.64 dBm	Peak Search	Peak Search
							Next Peak	Pk Search Config
							Next Pk Right	Properties
3 40							Next Pk Left	Marker Function
						DL1-13 00 dBm	Minimum Peak	Marker
					. M		Pk-Pk Search	Counter
			2			Martana	Marker Delta	
46.6	al Andrewski har di	watershipping	And Burning and	udig antique a construction of some d			Mkr-+CF	
							Mkr-+Ref Lvi	
Start 0.0300 GHz #Res BW 1.0 MHz			#Video BW 3.0	MHz	Sweep 1.0	top 1.0000 GHz 0 ms (1001 pts)	Continuous Peak Search On	
170	2	Jul 29, 2022				X	Off	

High Channel-5MHz Bandwidth-30MHz to 1GHz



High Channel-5MHz Bandwidth-1GHz to 10GHz

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High Channel-10MHz Bandwidth-30MHz to 1GHz



High Channel-10MHz Bandwidth-1GHz to 10GHz

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Couping: DG Align: Auto	Input 2:50 Q Corrections: Off Freq Ref: Int (S)	Atten 40 dB Preamp Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold >100/100 Tng: Free Run		Select Marker Marker 2	
Spectrum T		Ref LvI Offset 3.	40 dB	Mkr2 56	60.59 MHz	Marker Frequency 560.590000 MHz	Settings
cale/Div 10 dB		Ref Level 33.40	dBm	-3	9.05 dBm	Peak Search	Peak Search
						Next Peak	Pk Searc Config
						Next Pk Right	Propertie
5 411						Next Pk Left	Marker Function
5.60 5.6					DL1-13 00 dBm	Minimum Peak	Marker
						Pk-Pk Search	Counter
			¢2	, (III ) May		Marker Delta	
66	unumentation	and the second	المتهور أيهره المراجع سراديسا يعده	officiency and a second		Mkr→CF	
						MkrRef Lvi	
art 0.0300 GHz Res BW 1.0 MHz		#Video BW 3.0	MHz	Sweep 1.00	p 1.0000 GHz ms (1001 pts)	Continuous Peak Search On	1

Middle Channel-1.4MHz Bandwidth-30MHz to 1GHz



Middle Channel-1.4MHz Bandwidth-1GHz to 10GHz

**Chongqing Academy of Information and Communication Technology** 





KEYSIGHT Input: RF In Couping DC C Align Auto F	nput Z 50 Q Atten: 40 dB corrections: Off Proamp Off reg.Ref. Int (S)	PNO Fast Gate Off IF Gain Low Set Track Off	Avg Type Log-Power Avg[Hold >100/100 Tng: Free Run		Select Marker Marker 2	
1 Spectrum •	Ref Lvi Offset Ref Level 33 4	3.40 dB	Mkr2 2	88.02 MHz	Marker Frequency 288.020000 MHz	Settings
Log	Kei Level 55,4		1	Join abiii	Marker Mode	Search
			Y*		Normal	Pk Search
					Delta (Δ)	Properties
					Fixed	Fropenties
					Off	Function
				DL1-13 00 dBm	Delta Marker (Reset Delta)	Marker→
	¢2		di du		Marker Table On Off	Counter
-46 6	have and the second represented	erland times of the destination of the	-latin allelate million	and the second	Marker Settings Diagram	
					All Markers Off	
Start 0.0300 GHz #Res BW 1.0 MHz	#Video BW 3.	0 MHz	Steep 1.00	op 1.0000 GHz ms (1001 pts)	Couple Markers	1

Middle Channel-3MHz Bandwidth-30MHz to 1GHz



Middle Channel-3MHz Bandwidth-1GHz to 10GHz

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Avaj Typis Log-Fower Avaj Hold-Stollar M WAW WWW Marker 2 Marker 2 Marker Frequency Se2.530000 MHz Peak Search Next Pic Right Next Pic Right Next Pic Right Next Pic Right
Marker Frequency Settings Mkr2: 562.53 MHz -38.50 dBm 01 Next Peak Next Pk Right Properties Next Pk Right Properties
-38.50 dBm Peak Search Search Search Next Peak Config Next Peak Properties
Next Peak Pic Search Config Next Pic Right: Properties
Next Pk. Right Properties
Marker
Next Pk Left Function
DL1-12 00 dBm Minimum Peak Marker-+
Pk-Pk Search Counter
Marker Delta
Mkr-+CF
Mkr-+Ref Lvi
Continuous Peak Stop 1.0000 GHz Search Sweep 1.00 ms (1001 pts) On

Middle Channel-5MHz Bandwidth-30MHz to 1GHz



Middle Channel-5MHz Bandwidth-1GHz to 10GHz

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Middle Channel-10MHz Bandwidth-30MHz to 1GHz



Middle Channel-10MHz Bandwidth-1GHz to 10GHz

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Spectrum Analyzer 1 Swept SA	* +					Marke	· · · · · · · · · · · · · · · · · · ·
KEYSIGHT Input Couple Align	RF Input Z 50 Q and DC Corrections Auto Freq Ref Int	Atten: 40 dB Off Preamp Off (S)	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold >100/100 Trig: Erice Run		Select Marker Marker 2	
1 Spoctrum	*	Ref LvI Offset 3	.40 dB	Mkr2 2	54.07 MHz	Marker Frequency 254.070000 MHz	Settings
Scale/Div 10 dB		Ref Level 33.40	dBm	-4	10.99 dBm	Peak Search	Peak Search
						Next Peak	Pk Search Config
						Next Pk Right	Properties
78 401						Next Pk Left	Marker Function
					DL1-13 00 dBm	Minimum Peak	Marker
						Pk-Pk Search	Counter
	<b>↓</b> 2		ata mandari birana	warman William	MIND Antonia II.	Marker Delta	
-46.6	hamilianisti alianna an dalama	An	All have the share all all all all all all all all all al		والتقارية ال	Mkr-+CF	
						Mkr-+Ref Lvi	
Start 0.0300 GHz #Res BW 1.0 MHz		#Video BW 3.0	MHz	Sto Sweep 1.00	op 1.0000 GHz ms (1001 pts)	Continuous Peak Search On	
170	Jul 29, 202 12:52:35 A	2			X		

Low Channel-1.4MHz Bandwidth-30MHz to 1GHz



Low Channel-1.4MHz Bandwidth-1GHz to 10GHz

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KEYSIGHT Input RF Coupling DG Align Auto	Input Z 50 Q Corrections Off Freq Ref. Int (S)	Atten: 40 dB Preamp: Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold >100/100 Trig: Eree Run		Select Marker Marker 2	
1 Spectrum T		Ref LvI Offset 3	.40 dB	Mkr2 5	95.51 MHz	Marker Frequency 595.510000 MHz	Settings
Scale/Div 10 dB		Ref Level 33.40	dBm	-	38.95 dBm	Peak Search	Peak Search
						Next Peak	Pk Search Config
						Next Pk Right	Properties
3 40						Next Pk Left	Marker Function
16 8					DL1-13.00 dBm	Minimum Peak	Marker
						Pk-Pk Search	Counter
			2	Martin Martin	Merrow	Marker Delta	
46.6	, and the second se	na an an the the second se	ales and the second as sup			Mkr-+CF	
						Mkr-+Ref Lvi	1
Start 0.0300 GHz #Res BW 1.0 MHz		#Video BW 3.0	MHz	Sweep 1.00	op 1.0000 GHz ms (1001 pts)	Continuous Peak Search On	1
4 h C 1	? Jul 29, 2022 12:56:30 AM	9			X	Off	

Low Channel-3MHz Bandwidth-30MHz to 1GHz



Low Channel-3MHz Bandwidth-1GHz to 10GHz

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Swept SA		÷					Marke	r · · 🔛
KEYSIGHT Inpu	t RF ping DC n Aulo	Input Z 50 Q Corrections Off Freq Rel: Int (S)	Atten 40 dB Preamp Off	PNO Fast Gate Off IF Gain Low	Avg Type: Log-Power Avg[Hold>100/100 Trig: Eree Run		Select Marker Marker 2	
M 1 Spectrum			Ref LvI Offset 3	.40 dB	Mkr2 4	80.08 MHz	Marker Frequency 480.080000 MHz	Settings
Scale/Div 10 dB			Ref Level 33.40	dBm	-	40.08 dBm	Peak Search	Peak Search
							Next Peak	Pk Search Config
							Next Pk Right	Properties
3 40							Next Pk Left	Marker Function
						DL1-13 00 dBm	Minimum Peak	Marker
26.6							Pk-Pk Search	Counter
			•2	and a local diama	and brill the state	Human	Marker Delta	
26 B	nd type between the	ייילאלוגיואלייגייאליייגעייעיטייעיייייייייייייייייייייייייי	A. S. W. S.	a da defensada en la carterífica e que a			Mkr-+CF	
							Mkr-+Ref Lvi	
tart 0.0300 GHz Res BW 1.0 MHz			#Video BW 3.0	MHz	St Sweep 1.00	op 1.0000 GHz ms (1001 pts)	Continuous Peak Search On	
150		Jul 29, 2022				50	Off	

Low Channel-5MHz Bandwidth-30MHz to 1GHz



Low Channel-5MHz Bandwidth-1GHz to 10GHz

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Low Channel-10MHz Bandwidth-30MHz to 1GHz



Low Channel-10MHz Bandwidth-1GHz to 10GHz

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# **CAICT**

#### Report No.: I22W00056-WWAN RF-Rev3

1			
Specifications:	FCC Part 2.1051, 2.1053, 22.917		
DUT Serial Number:	866884046100616		
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa		
Test Results:	Pass		

#### 6.6. Radiated Spurious Emission

#### Limit Level Construction:

According to Part 22.917 (a), i.e., Out of Band emissions. 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  $43 + 10 \log(P) dB$ .

According to Part 24.238 (a), i.e., Out of Band emissions. 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  $43 + 10 \log(P) dB$ , so the limit level is: P(dBm)– ( $43 + 10 \log(P)$ ) dB= -13dBm.

#### According to Part 27.53(c):

On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log (P) dB$ ;

#### According to Part 27.53(h):

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 Bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10(P) dB.

#### According to Part 27.53(g):

For operations in the 600 MHz Band and the 698-746 MHz Band, the power of any emission outside a licensee's frequency Band(s) of operation shall be attenuated below the transmitter power (P) within the licensed Band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution Bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz Bands immediately outside and adjacent to a licensee's frequency block, a resolution Bandwidth of at least 30 kHz may be employed.

#### According to Part 90.691:

(a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

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(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

Limits for Radiated spurious emissions(UE)					
Frequency range Limit Level /Resolution Bandwidth					
30 MHz to 20000 MHz -13dBm/1MHz					

#### **Measurement Uncertainty:**

Item	Uncertainty
Expanded Uncertainty(30MHz-150MHz)	5.15 dB (k=2)
Expanded Uncertainty (150MHz-1GHz)	4.09dB (k=2)
Expanded Uncertainty (1GHz-3GHz)	2.92dB (k=2)
Expanded Uncertainty (3GHz-6GHz)	2.93dB (k=2)
Expanded Uncertainty (3GHz-12.75GHz)	2.69dB (k=2)

#### **Test Setup:**

The EUT was placed in an anechoic chamber. The Wireless Communications Test Set was used to set the TX channel and power level and modulate the TX signal with different bit patterns.

#### Test Method:

The measurement method is substitution method accordance with section 2.2.12 of ANSI/TIA-603-E: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

(a) Connect the equipment as illustrated and measure the spurious emissions as the method as above. The distance from the device to the antenna is 3 m.

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(c) Remove the transmitter and replace it with a substitution antenna. The center of the substitution antenna should be approximately at the same location as the center of the transmitter.

(d) Feed the substitution antenna at the transmitter end with a signal generator connected to the antenna by means of a non-radiating cable. With the antennas at both ends horizontally polarized, and with the signal generator tuned to a particular spurious frequency, raise and lower the test antenna to obtain a maximum reading at the spectrum analyzer. Adjust the level of the signal generator output until the previously recorded maximum reading for this set of conditions is obtained. This should be done carefully repeating the adjustment of the test antenna and generator output.

(e) Repeat step d) with both antennas vertically polarized for each spurious frequency.

(f) Calculate power in dBm into a reference ideal half-wave dipole antenna by reducing the readings obtained in steps d) and e) by the power loss in the cable between the generator and the antenna, and further corrected for the gain of the substitution antenna used relative to an ideal half-wave dipole antenna by the following formula:

 $P_d(dBm) = P_g(dBm) - cable loss (dB) + antenna gain (dB)$ 

where:

Pd is the dipole equivalent power and Pg is the generator output power into the substitution antenna. **Note:** 

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 Tel:
 0086-23-88069965
 FAX:0086-23-88608777





The radiation spurious test data only show the worst case, which is chosen according to the conduction power.

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#### **NB-IoT B 2 Radiated Spurious Emission Results**

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
2604.8	-51.1	1.3	-0.4	-52.8	V
3819.6	-65.5	1.6	8.7	-58.4	V
5279.6	-62.0	2.0	10.5	-53.5	V
7639.2	-65.4	2.6	11.5	-56.5	V
8131.2	-69.1	2.6	11.7	-60.0	V
10880	-67.9	3.4	13.5	-57.8	V

#### Test Data (3.75 kHz Sub-carrier Spacing 19199 QPSK Mode)

#### **NB-IoT B 4 Radiated Spurious Emission Results**

Test Data	(3.75	kHz Sub-carrier Spacing 20399 QPSK Mode	e)
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Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3509.8	-70.7	1.6	9.0	-63.3	V
5264.7	-70.2	2.0	10.4	-61.8	V
7019.6	-69.2	2.5	11.3	-60.4	V
8774.5	-69.4	3.3	12.0	-60.7	V
10529.4	-68.8	3.6	13.2	-59.2	V
12284.3	-69.5	3.5	13.9	-59.1	V

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Test Data (3.75 KHZ Sub-carrier Spacing 23011 QPSK Mode)								
Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]			
1412.2	-49.0	0.9	1.7	-48.2	V			
2068.8	-54.5	1.2	1.7	-54.0	V			
2627.4	-50.8	1.3	-0.4	-52.5	V			
3059.6	-70.5	1.4	8.6	-63.3	V			
5264.4	-68.9	2.0	10.5	-60.4	V			
7019.2	-61.5	2.5	11.3	-52.7	V			

#### NB-IoT B 12 Radiated Spurious Emission Results

#### Test Dat . C . ADDIT ODGIZ M. L. )

#### NB-IoT B 13 Radiated Spurious Emission Results

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1410.2	-50.3	0.9	1.7	-49.5	V
2134.0	-55.9	1.2	1.2	-55.9	V
2438.4	-47.4	1.3	0.1	-48.6	V
3075.6	-71.1	1.4	8.7	-63.8	V
3794.0	-68.1	1.7	8.7	-61.1	V
4516.0	-70.3	1.8	9.7	-62.4	V

Test Data (3.75 kHz Sub-carrier Spacing 23279 QPSK Mode)

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#### NB-IoT B26 (824MHz-849MHz) Radiated Spurious Emission Results

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1400.0	-50.0	0.9	1.7	-49.2	V
1697.4	-54.9	1.0	1.6	-54.3	V
2050.8	-56.2	1.1	1.8	-55.5	V
2604.4	-51.1	1.3	-0.4	-52.8	V
3034.0	-70.8	1.4	8.93	-63.3	V
6586.0	-68.7	2.5	11.13	-60.1	V

Test Data (3.75 kHz Sub-carrier Spacing 27039QPSK Mode)

#### NB-IoT B26(814MHz-824MHz) Radiated Spurious Emission Results

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1414.4	-50.3	0.9	1.7	-49.5	V
1642.3	-56.3	1.2	1.6	-55.9	V
2078.8	-49.0	1.3	1.7	-48.6	V
2630.8	-62.0	1.4	-0.4	-63.8	V
3146.8	-68.1	1.7	8.73	-61.1	V
4262.8	-70.3	1.8	9.66	-62.4	V

Test Data (3.75 kHz Sub-carrier Spacing 26691 QPSK Mode)

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CAT-M B2 Radiated Spurious Emission Results	
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Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3815.0	-71.9	1.6	9.3	-64.2	V
5722.5	-72.6	2.2	10.3	-64.5	V
7630.0	-71.6	2.6	11.7	-62.5	V
9537.5	-70.3	3.2	12.4	-61.1	V
11445.0	-70.0	3.7	13.8	-59.9	V
13352.5	-68.8	4.1	14.0	-58.9	V

#### Test Data (5MHz bandwidth 19175 16QAM Mode)

## **CAT-M B4 Radiated Spurious Emission Results**

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
3505.0	-74.4	1.6	9.0	-67.0	V
5257.5	-72.9	2.0	10.3	-64.6	V
7010.0	-71.3	2.5	11.4	-62.4	V
8762.5	-69.1	3.3	12.1	-60.3	V
10515.0	-70.7	3.6	13.2	-61.1	V
12267.5	-69.6	3.5	14.1	-59.0	V

#### Test Data (5MHz bandwidth 20375 16QAM Mode)

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# **CAT-M B12 Radiated Spurious Emission Results**

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1415.0	-69.4	0.9	1.7	-68.6	Н
2122.5	-64.1	1.2	1.6	-63.7	Н
2830.0	-56.6	1.4	-0.7	-58.7	Н
3537.5	-74.4	1.6	9.0	-67.0	V
4245.0	-73.0	1.8	9.3	-65.5	V
4952.5	-71.4	1.9	9.8	-63.5	V

#### Test Data (5MHz bandwidth 23095 16QAM Mode)

#### **CAT-M B13 Radiated Spurious Emission Results**

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1564.0	-65.4	1.0	0.2	-66.2	Н
2346.0	-60.4	1.3	0.4	-61.3	V
3128.0	-74.2	1.5	8.9	-66.8	V
3910.0	-72.0	1.7	9.3	-64.4	V
4692.0	-72.2	1.9	9.7	-64.4	V
5474.0	-73.4	2.1	10.3	-65.2	V

#### Test Data (10MHz bandwidth 23230 16QAM Mode)

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Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1633.0	-67.2	1.0	1.6	-66.6	V
2449.5	-59.5	1.3	0.3	-60.5	V
3266.0	-73.8	1.5	9.0	-66.3	V
4082.5	-72.9	1.7	9.3	-65.3	V
4899.0	-72.1	2.0	9.8	-64.3	V
5715.5	-72.1	2.1	10.3	-63.9	V

# CAT-M B26(Part22) Radiated Spurious Emission Results

#### Test Data (5MHz bandwidth 26715 16OAM Mode)

#### CAT-M B26(Part90) Radiated Spurious Emission Results

Frequency [MHz]	Generator output power(Pg) [dBm]	Cable loss [dB]	Antenna Gain [dB]	Spurious Emission Power (Pd) [dBm]	Antenna Polarization [H/V]
1653.0	-67.4	1.0	1.6	-66.8	Н
2479.5	-59.3	1.3	-0.1	-60.7	Н
3306.0	-74.3	1.5	9.0	-66.8	V
4132.5	-73.1	1.7	9.3	-65.5	V
4959.0	-72.1	1.9	9.8	-64.2	V
5785.5	-73.5	2.2	10.9	-64.8	V

#### Test Data (5MHz bandwidth 26815 16QAM Mode)

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### 6.7. Band Edge

Specifications:	FCC Part 2.1051, 2.1053, 22.917
DUT Serial Number:	866884046100624
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

#### **Limit Level Construction:**

According to Part 22.917 (a), i.e., Out of Band emissions. 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  $43 + 10 \log(P) dB$ .

According to Part 24.238 (a), i.e., Out of Band emissions. 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  $43 + 10 \log(P) dB$ , so the limit level is: P(dBm)– ( $43 + 10 \log(P)$ ) dB=-13dBm.

#### According to Part 27.53(h):

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 Bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log10(P) dB.

#### According to Part 90.691:

For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz

#### According to Part 27.53(g):

For operations in the 600 MHz Band and the 698-746 MHz Band, the power of any emission outside a licensee's frequency Band(s) of operation shall be attenuated below the transmitter power (P) within the licensed Band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution Bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz Bands immediately outside and adjacent to a licensee's frequency block, a resolution Bandwidth of at least 30 kHz may be employed.

#### Measurement Uncertainty:

Item	Uncertainty			
Expanded Uncertainty	9kHz < f≤4GHz	0.71 dB (k=2)		

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4GHz≤f < 12.75GHz	0.74 dB (k=2)	
12.75GHz≤f < 26GHz	2.70 dB (k=2)	

#### **Test Setup:**

During the test, the EUT was controlled via the Wireless Communications Test Set to ensure max power transmission and proper modulation and measured by spectrum analyzer.



### **Test Method:**

1) The EUT was coupled to the EMI test receiver analyzer mode and the base station simulator through a power divider. The lost of the cables the test system is calibrated to correct the readings.

2) The spectrum analyzer was set to Average Detector function and Maximum hold mode.

3) The resolution Bandwidth of the spectrum analyzer was a little greater than 1% of the 26dB emission Bandwidth.

**Note:** In the graphical result description (X, Y), X represents the number of RB, Y represents the RB offset.

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# 6.7.1 NB-IoT Band2 Edge Results

Low Channel, Subcarrier (3.75kHz), QPSK, 1@0

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#### Report No.: I22W00056-WWAN RF-Rev3



#### Low Channel, Subcarrier (3.75kHz), BPSK, 1@0



Low Channel, Subcarrier (15kHz), QPSK, 1@0

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Low Channel, Subcarrier (15kHz), QPSK, 12@0



Low Channel, Subcarrier (15kHz), BPSK, 1@0

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