Appendix E: Test Data for E-UTRA Band 17

Product Name: LTE GSM/WCDMA Smartphone **Trade Mark: DOOGEE** Test Model: S70 Lite

Environmental Conditions

Temperature:	22.8
Relative Humidity:	53.2
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.Xu
Supervised by:	Jayden Zhuo

E.1 Conducted Output Power

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		Conducte	d Output Pov	ver Test Result (Channel Ban	dwidth: 5 MHz)	
	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Verdiet
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict
		1	0	23.27	22.57	PASS
		1	12	23.66	22.89	PASS
		1	24	23.26	22.58	PASS
	LCH	12	0	22.35	21.45	PASS
		12	6	22.43	21.52	PASS
		12	13	22.31	21.41	PASS
		25	0	22.35	21.34	PASS
		1	0	23.33	22.25	PASS
		1	12	23.65	22.36	PASS
QPSK /		1	24	23.34	22.26	PASS
16QAM	MCH	12	0	22.35	21.36	PASS
IOQAIVI		12	6	22.39	21.37	PASS
		12	13	22.32	21.34	PASS
		25	0	22.36	21.34	PASS
		1	0	23.21	22.30	PASS
		1	12	23.40	22.63	PASS
		1	24	23.22	22.24	PASS
	HCH	12	0	22.31	21.33	PASS
		12	6	22.38	21.38	PASS
		12	13	22.28	21.27	PASS
		25	0	22.29	21.31	PASS

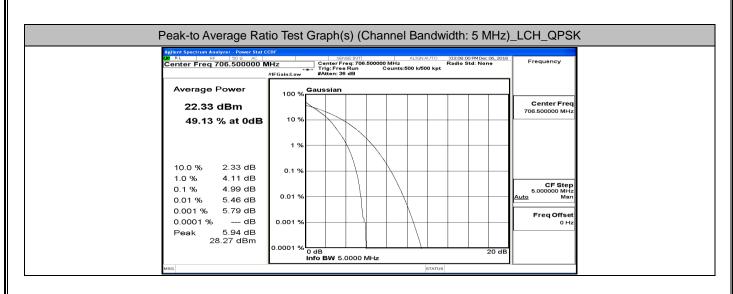
		Conducted	d Output Pow	ver Test Result (Channel Band	dwidth: 10 MHz)	
	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]) (a raliat
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict
		1	0	23.26	22.49	PASS
		1	24	23.47	22.70	PASS
		1	49	23.27	22.50	PASS
	LCH	25	0	22.43	21.38	PASS
		25	12	22.40	21.34	PASS
		25	25	22.36	21.27	PASS
		50	0	22.38	21.32	PASS
		1	0	23.29	22.49	PASS
		1	24	23.52	22.71	PASS
		1	49	23.28	22.46	PASS
QPSK /	MCH	25	0	22.46	21.41	PASS
16QAM		25	12	22.42	21.39	PASS
		25	25	22.37	21.34	PASS
		50	0	22.45	21.34	PASS
		1	0	23.29	22.61	PASS
		1	24	23.53	22.84	PASS
		1	49	23.30	22.61	PASS
	НСН	25	0	22.48	21.44	PASS
		25	12	22.42	21.37	PASS
		25	25	22.33	21.30	PASS
		50	0	22.38	21.34	PASS

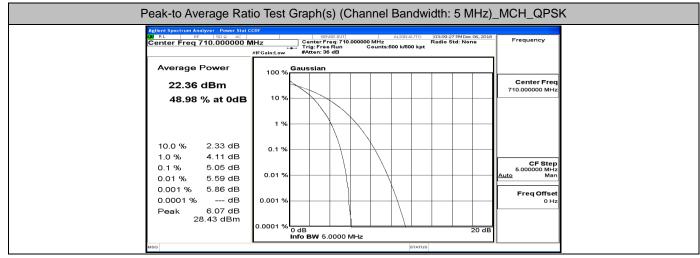
E.2 Peak-to-Average Ratio

	Peak-to Average Ra	itio Test Result (Channel	Bandwidth: 5 MHz)	
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict
MODUIATION	Channe	[dB]	[dB]	Verdict
	LCH	4.99	<13	PASS
QPSK	MCH	5.05	<13	PASS
	НСН	4.94	<13	PASS
	LCH	5.83	<13	PASS
16QAM	MCH	5.86	<13	PASS
	НСН	5.76	<13	PASS

	Peak-to Average Ra	tio Test Result (Channel	Bandwidth: 10 MHz)	
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict
MODULATION	Channel	[dB]	[dB]	Verdict
	LCH	5.14	<13	PASS
QPSK	MCH	5.1	<13	PASS
	НСН	5.14	<13	PASS
	LCH	5.91	<13	PASS
16QAM	MCH	5.89	<13	PASS
	НСН	5.89	<13	PASS

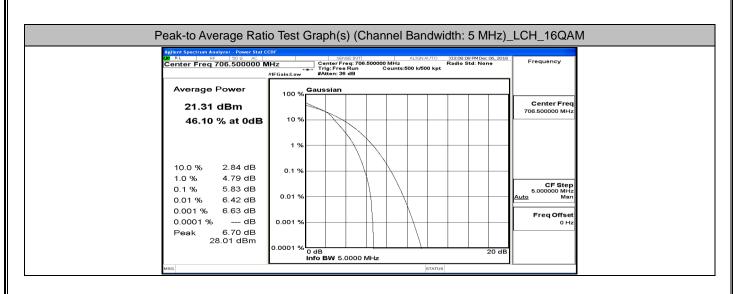
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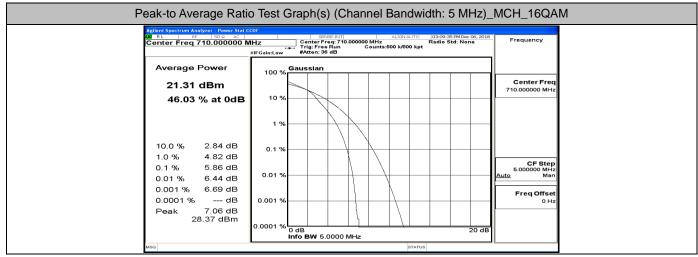




/Trig:FreeRun Counts:500 k/500 kpt #FGeln:Low #Atten:36 dB	
Average Power Gaussian 22.31 dBm 100 % 48.76 % at 0dB 10 %	Center Freq 713.500000 MHz
10.0 % 2.32 dB 0.1 %	
0.1 % 4.94 dB 0.01 % 5.44 dB 0.001 % 5.70 dB	CF Step 5.00000 MHz Man Freq Offset
0.0001 % dB 0.001 % dB 0.0001 %	0 Hz

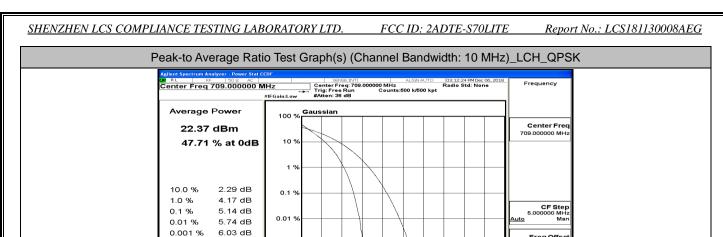
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Agilent Spectrum Analyzer - Power Stat 0	io Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QA
(20) RL BF 1509 AC Center Freq 713.500000 M	#IFGain:Low #Atten: 36 dB	Frequency
Average Power 21.25 dBm 46.20 % at 0dB	100 % Gaussian	Center Freq 713.500000 MHz
40.20 % at 00B	1%	_
10.0 % 2.85 dB 1.0 % 4.74 dB	0.1 %	_
0.1 % 5.76 dB 0.01 % 6.23 dB	0.01 %	CF Step 5.000000 MHz <u>Auto</u> Man
0.001 % 6.45 dB 0.0001 % dB Peak 6.70 dB	0.001 %	Freq Offset 0 Hz
27.95 dBm	0.0001 % 0 dB 20 d Info BW 5.0000 MHz 20 d	в
M8G	STATUS	

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0.001 % 0.0001 % 0 dB Info BW 8.0000 MHz STATUS

0.0001 %

Peak

---- dB

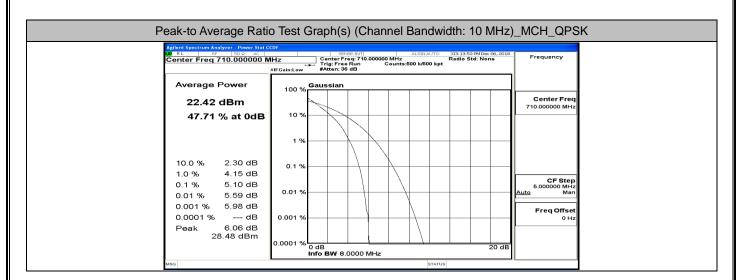
6.26 dB

28.63 dBm

Freq Offset

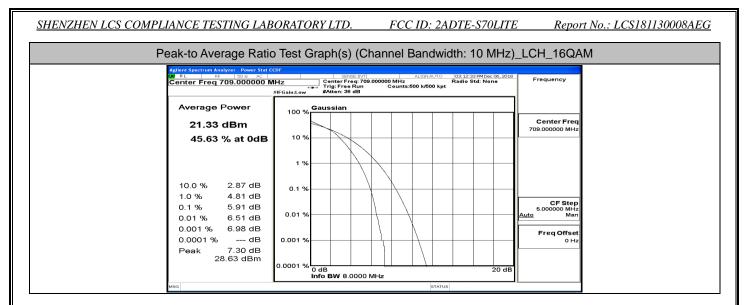
20 dB

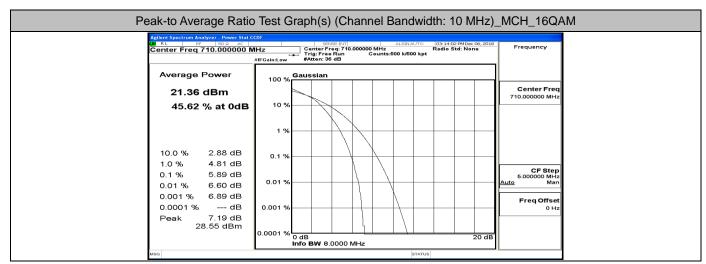
0 Hz



Center Freq 711.000000 N	CDF	Frequency
	Trig: Free Run Counts:500 k/500 kpt #IFGain:Low #Atten: 36 dB	
Average Power	100 % Gaussian	
22.38 dBm		Center Freq 711.000000 MHz
47.60 % at 0dB	10 %	
	1 %	
10.0 % 2.30 dB	0,1 %	
1.0 % 4.16 dB		CF Step
0.1 % 5.14 dB 0.01 % 5.60 dB	0.01 %	5.000000 MHz Auto Man
0.001 % 5.97 dB		Freq Offset
0.0001 % dB Peak 6.00 dB	0.001 %	0 Hz
29.39 dBm		
	0.0001 % 0 dB 20 dE 20 dE	1

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	o Test Graph(s) (Channel Bandwidth: 10 MHz)	_HCH_16QA
Aglent Spectrum Analyzer - Power Stat C 100 RL = RF = Sec ac Center Freq 711.000000 N	SENSE:INT ALIGN AUTO 03:15:31 PM Dec 06, 2018	Frequency
Average Power 21.31 dBm	100 % Gaussian	Center Freq 711.000000 MHz
45.55 % at 0dB 10.0 % 2.88 dB		
1.0 % 4.84 dB 0.1 % 5.89 dB 0.01 % 6.53 dB 0.001 % 7.09 dB	0.01 %	CF Step 5.000000 MHz <u>Auto</u> Man Freq Offset
0.0001 % dB Peak 7.29 dB 28.60 dBm	0.0001 % 0.0001 % 0 dB 20 dB 20 dB	0 Hz
MSG	STATUS	

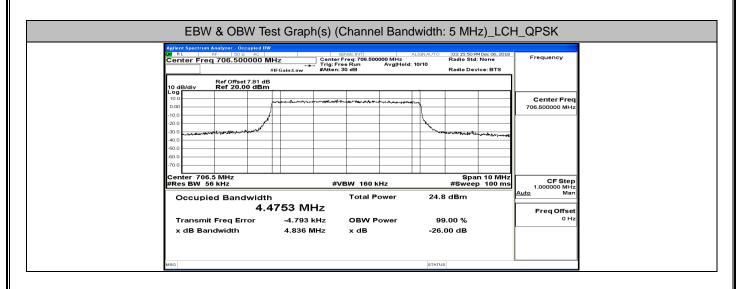
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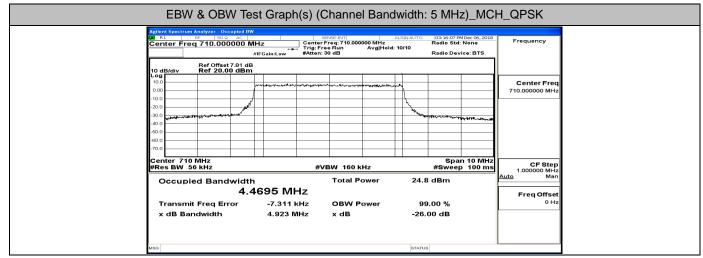
E.3 26dB Bandwidth and Occupied Bandwidth

	EBW & OBW T	est Result (Channel Ban	dwidth: 5 MHz)	
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
wouldtion	Channel	(MHz)	(MHz)	Verdict
	LCH	4.4753	4.836	PASS
QPSK	MCH	4.4695	4.923	PASS
	HCH	4.4823	4.884	PASS
	LCH	4.4616	4.885	PASS
16QAM	MCH	4.4869	4.853	PASS
	НСН	4.4766	4.891	PASS

	EBW & OBW Te	est Result (Channel Band	lwidth: 10 MHz)	
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
wouldtion	Channel	(MHz)	(MHz)	Verdici
	LCH	8.9398	9.537	PASS
QPSK	MCH	8.9469	9.548	PASS
	НСН	8.9356	9.512	PASS
	LCH	8.9334	9.536	PASS
16QAM	MCH	8.9399	9.539	PASS
	НСН	8.9496	9.476	PASS

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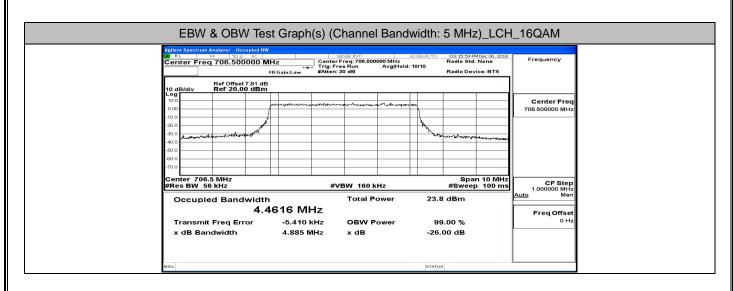


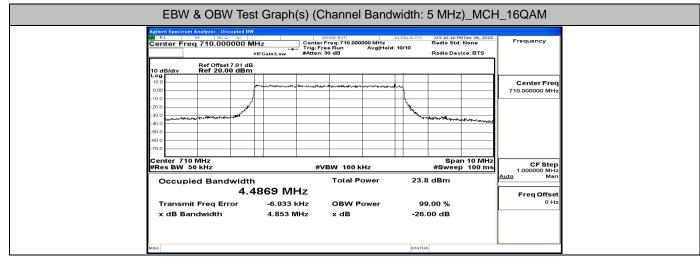


LX/RL RF 50.0 AC		ENSE:INT		IDec 06, 2018 Name Frequency
Center Freq 713.500000 M	Trig: Fr		Radio Std: d: 10/10	None
	#IFGain:Low #Atten:	30 dB	Radio Devi	ice: BTS
Ref Offset 7.81 dB 10 dB/div Ref 20.00 dBm				
10.0				Center Freq
0.00	,	********	rind	713.500000 MHz
-10.0				
-20.0			1 Nu	
-30.0 www.marganga				mu marture 2
-50.0				
+60.0				
-70.0				
Center 713.5 MHz #Res BW 56 kHz	#\	/BW 160 kHz		10 MHz CF Step
			24.8 dBm	1.000000 MHz Auto Man
Occupied Bandwidth		Total Power	24.8 dBm	
	823 MHz			Freq Offset
Transmit Freq Error	-6.884 kHz	OBW Power	99.00 %	0 Hz
x dB Bandwidth	4.884 MHz	x dB	-26.00 dB	

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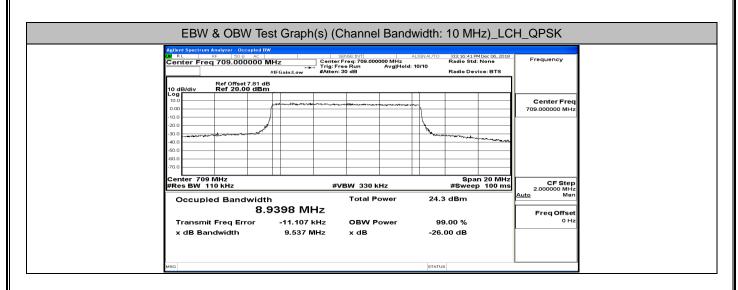


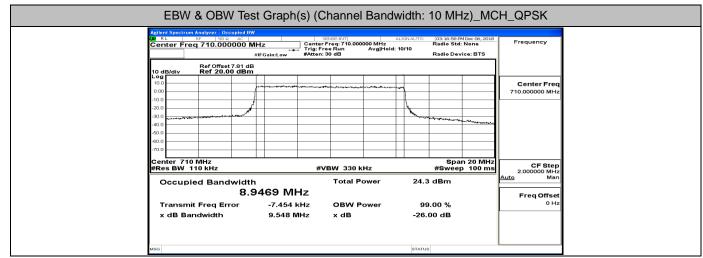




XX RL RF 50Ω AC		ENSE:INT Freg: 713.500000 MHz	ALIGNAUTO 03:16:33 F	MDec 06, 2018	Frequency
Center Freq 713.500000 M	HZ Trig: Fr	ee Run Avg Hold:			
Ref Offset 7.81 dB	Guineow				
10 dB/div Ref 20.00 dBm					
10.0	- marine marine and				Center Freq 713.500000 MHz
-10.0					713.500000 MHz
-20.0			- M		
-30.0 Wetrementer all approximation of the			Www.angerster	and marine and the	
-40.0					
-60.0					
-70.0					
Center 713.5 MHz #Res BW 56 kHz	#\	'BW 160 kHz	Spa #Swee	n 10 MHz p 100 ms	CF Step
					1.000000 MHz <u>Auto</u> Man
Occupied Bandwidth		Total Power	23.7 dBm		
	766 MHz				Freq Offset
Transmit Freq Error	-3.611 kHz	OBW Power	99.00 %		0 Hz
x dB Bandwidth	4.891 MHz	x dB	-26.00 dB		

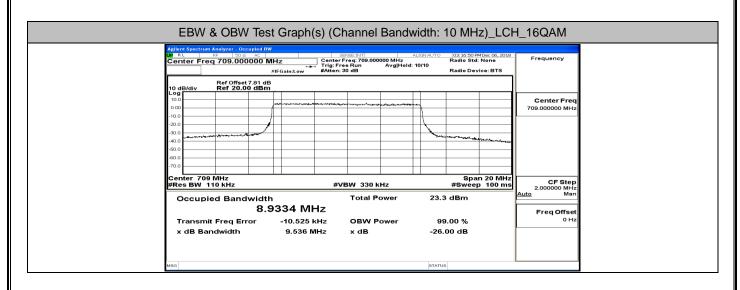
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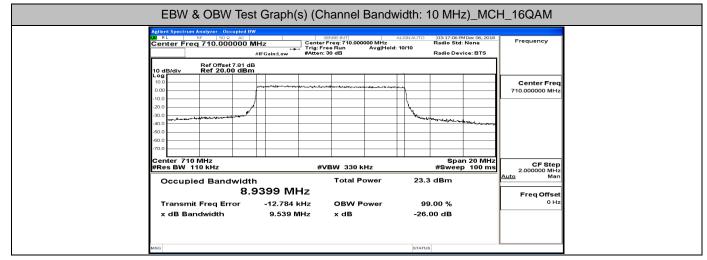




Center 711.00000 MHZ AvgHeid: 10/10 Radio Device: BTS 10 dB/div Ref Offset 7.81 dB Radio Device: BTS 10 dB/div Ref Offset 7.81 dB Center Freq 0.00 dBm 100 0 Center Freq 0.00 dBm 100 0 Center 711.000000 MHZ 200 Center 711 MHz #Res BW 110 kHz #VBW 330 kHz \$	LXI RL RF 50Ω AC	/	SENSE:INT	ALIGN AUTO		MDec 06, 2018	Frequency
Ref Offset 7.81 dB Center Free Log Center Free 10 dB/div Ref 20.00 dBm 20 dB/div		· · · T	rig: Free Run Avg H				Frequency
10 dB/div Ref 20.00 dBm Log Center Freq 10 dB/div Span 20 MHz 10 dB/div Total Power 2.00000 MHz 10 dL/div Mar Mar 10 dL/div Total Power 24.3 dBm Freq Offset Orffset Orffset 11 dHz CF51 kHz OBW Power 99.00 %		an odmeon a	Atten: 30 dB		Radio Dev	vice: BTS	
Indiana Center Freq 100 <	10 dB/div Ref 20.00 dBm						
000 100 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Center Freg</td>							Center Freg
200 300 <td></td> <td></td> <td>*************************************</td> <td>~~~~</td> <td></td> <td></td> <td>711.000000 MHz</td>			*************************************	~~~~			711.000000 MHz
300		/					
Solution Solution Solution Solution CF Step 2.00000 MHz CF Step 2.00000 MHz				No.			
Span 20 MHz CF Step 200 CF Step 2000000 MHz Center 711 MHz #VBW 330 KHz \$\$\$ \$	-40.0						
700 Center 711 MHz Span 20 MHz Center 711 MHz #VBW 330 kHz \$Span 20 MHz #Res BW 110 kHz #VBW 330 kHz #Sweep 100 ms Occupied Bandwidth Total Power 24.3 dBm B.9356 MHz Freq Offset Transmit Freq Error -5.751 kHz OBW Power 99.00 %							
#Res BW 110 kHz #VBW 330 kHz #Sweep 100 ms CFStep Decode MHz Occupied Bandwidth Total Power 24.3 dBm Auto Man 8.9356 MHz Freq Offset Freq Offset 0 Hz Transmit Freq Error -5.751 kHz OBW Power 99.00 % 0 Hz							
#Res BW 110 kHz #VBW 330 kHz #Sweep 100 ms CFStep Decode MHz Occupied Bandwidth Total Power 24.3 dBm Auto Man 8.9356 MHz Freq Offset Freq Offset 0 Hz Transmit Freq Error -5.751 kHz OBW Power 99.00 % 0 Hz	Cepter 711 MHz				Spa	n 20 MHz	
Occupied Bandwidth Total Power 24.3 dBm 8.9356 MHz Freq Offset Transmit Freq Error -5.751 kHz OBW Power 99.00 % 0 Hz			#VBW 330 kHz				2.000000 MHz
Transmit Freq Error -5.751 kHz OBW Power 99.00 % 0 Hz	Occupied Bandwidt	ו	Total Power	24.	3 dBm		<u>Auto</u> Man
Transmit Freq Error -5.751 kHz OBW Power 99.00 %	8.9	9356 MHz					Freg Offset
x dB Bandwidth 9.512 MHz x dB -26.00 dB	Transmit Freq Error	-5.751 kHa	OBW Power	9	9.00 %		0 Hz
	x dB Bandwidth	9.512 MHz	x dB	-26	.00 dB		
	MSG			STAT	19		

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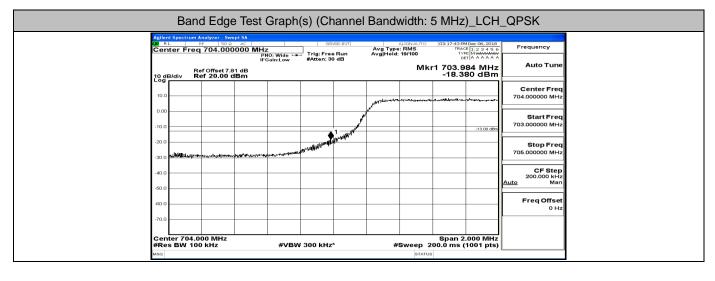


Center Freq 711.000000 N	1Hz	SENSE:INT Center Freq: 711.0 Trig: Free Run		LIGN AUTO	03:17:23 P Radio Std	MDec 06, 2018 I: None	Frequency
	#IFGain:Low	#Atten: 30 dB			Radio Dev	vice: BTS	
Ref Offset 7.81 dB 10 dB/div Ref 20.00 dBm Log	1 1 1			·			
0.00	po manarana	****	****	-			Center Freq 711.000000 MHz
-10.0	/			l			
-30.0 Annumenter menericante and				"Vorane	manya	-	
-40.0						and the factor of the second	
-60.0							
Center 711 MHz		#1(D)1(000			Spa	n 20 MHz	CF Step
#Res BW 110 kHz Occupied Bandwidth		#VBW 330	Power	23.5	#swee	p 100 ms	2.000000 MHz <u>Auto</u> Man
	9496 M⊦		i ower	20.0	abiii		Freq Offset
Transmit Freq Error	-6.546 k	Hz OBW	Power	99	9.00 %		0 Hz
x dB Bandwidth	9.476 M	Hz xdB		-26.	00 dB		

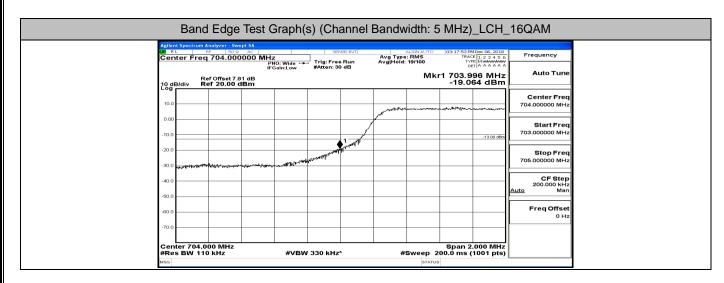
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Report No.: LCS181130008AEG

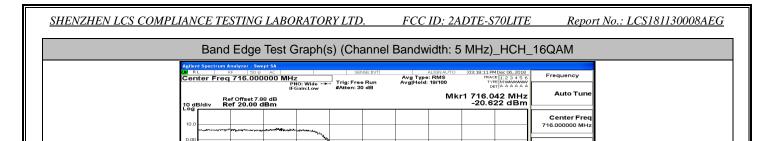
E.4 Band Edge



	Ba	and E	dge 7	Fest (Graph((s) (Cł	nanne	I Band	width: 5	5 MHz)_HCH	_QPSK
Cer	nter F	Ref Off	50 Q A	IB	Z NO: Wide ↔ Gain:Low		NSE:INT e Run 0 dB	Avg Type Avg Hold	18/100	1 716.0	1 2 3 4 5 6 1 3	Frequency Auto Tune
10.0		10mm.p.1.098	1111 ⁴⁰ 1111	unite of the first	a course and							Center Freq 716.000000 MHz
-10.0						No.					-13.00 dBm	Start Freq 715.000000 MHz
-20.0						فره الدران	an a	He want	en-energing	Revenue and	(hereingeingeingen vollt) for fin	Stop Freq 717.000000 MHz
-40.0												CF Step 200.000 kHz <u>Auto</u> Man
-60.0												Freq Offset 0 Hz
	nter 71	16.000 N 110 kH			#\/B\A	330 KHz			Sweep 2		.000 MHz	
MSG	53 200	115 KH.	٤.		#VBV	550 KH2		"	SWEEP 20		ioor proj	



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#VBW 330 kHz*

30

Center 716.000 MHz #Res BW 110 kHz Start Fred 715.000000 MHz

Stop Fred 717.000000 MHz

> CF Step 200.000 kHz Man

Freq Offset 0 Hz

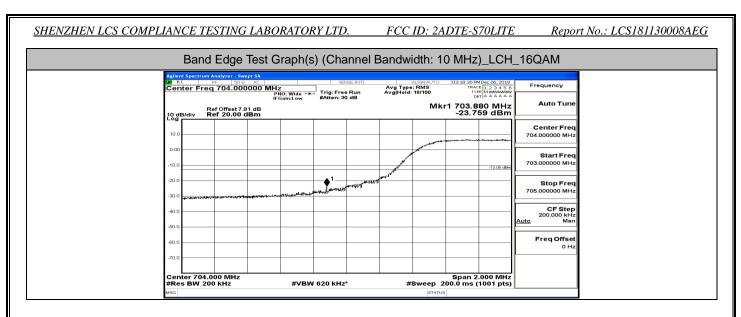
-13.00 dE

\$pan 2.000 MHz #Sweep 200.0 ms (1001 pts)

Agilent Spectrum Analyzer - Swept SA	SENSE:INT	Bandwidth: 10 MHz	1Dec 06. 2018
Center Freq 704.000000 N		Avg Type: RMS TRACI Avg Hold: 18/100 TYP DE	E 123456 Frequency
Ref Offset 7.81 dB 10 dB/div Ref 20.00 dBm		Mkr1 703.9 -22.50	74 MHz Add Tulle 04 dBm
10.0			Center Freq 704.000000 MHz
-10.0			Start Freq 703.000000 MHz
	1	NEW YOU	-13.00 dBm Stop Freg
-30.0	1		705.000000 MHz
-40.0			CF Step 200.000 kHz <u>Auto</u> Man
-60.0			Freq Offset
-70.0			0 Hz

Agilent Spectrum Analyzer - Swept SA ALIGNAUTO 03:18:39 PM Dec 06, 2018 Frequence VM R.L RF 50.0 AC SENSE:INT ALIGNAUTO 03:18:39 PM Dec 06, 2018 Frequence Center Freq 716.000000 MHz Avg Type: RMS TRACE [12.3.4.5.6] Frequence	
PNO: Wide Trig: Free Run Avg Hold: 19/100 TVPE Nowwww IFGain:Low #Atten: 30 dB	
Ref offset 7.98 dB Auto 10 dB/div Ref 20,00 dBm -23.692 dBm -23.692 dBm	Tune
10.0 Center 716.0000	
1000 Start 1000 The second start	t Freq
	Freq
-20.0 -30.0	5 Step
	00 kHz Man
-60.0 Freq C	Offset 0 Hz
-70.0	
Center 716.000 MHz Span 2.000 MHz #VBW 620 kHz* #Sweep 2000 ms (1001 pts)	

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	В	Band E	Edge T	est G	raph(s) (Cha	nnel B	Bandwi	dth: 10) MHz)	_HCH	_16QAM
UC1	RL	RF	alyzer - Swej - 50 Ω 716.000		O: Wide	1	Run	Avg Type Avg Hold:	align auto : RMS 19/100	03:18:48 PM TRACI TYP DE	Dec 06, 2018	Frequency
10,	dB/c	Ref div Re	Offset 7.86	dB	ain:Low	#Millen. Sc			Mkr	1 716.0	14 MHz 57 dBm	
10	_			444								Center Freq 716.000000 MHz
-10.					Nava							Start Freq 715.000000 MHz
-20					"Why water	Ken	● ¹				-13.00 dBm	Stop Freq
-30.							^{በገ} ጉ የተቀረጉት	genelose anneles or	********	10~~~~	and we are to the state of the st	717.000000 MHz
-60.												200.000 kHz <u>Auto</u> Man
-60.												Freq Offset 0 Hz
-70.		r 716.00	0 MHz							Spap 2	000 MHz	
	tes I	BW 200			#VBW	620 kHz'	v	#\$	Sweep 20			

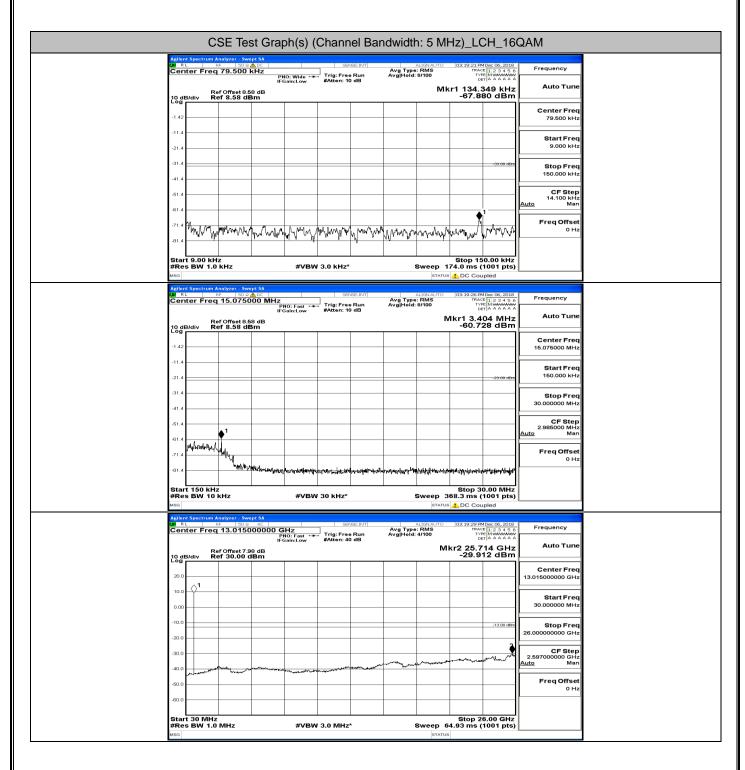
E.5 Conducted Spurious Emission

		C				Chan	nel Ba	ndwidt	h: 5 M	Hz)_L	CH_Q	PSK
1)(1)	RL	Spectrum Ar RF	- 50 Ω /	NDC		SEN	ISE:INT	Avg Type Avg Hold:	ALIGNAUTO	03:19:06 PM TRACI	1Dec 06, 2018 E 1 2 3 4 5 6 E MWWWWW T A A A A A A	Frequency
19	dB	Ref div Re	/ Offset 8.5 f 8.58 dE		IO: Wide ↔ Sain:Low	#Atten: 10	dB	Avg Hold:		/lkr1 9.1		Auto Tune
	.42											Center Freq 79.500 kHz
-1 -2												Start Freq 9.000 kHz
-3											-99.00 dDm	Stop Freq 150.000 kHz
-4 -5												CF Step 14.100 kHz Auto Man
-6		1										Auto Man Freq Offset 0 Hz
-8	1.4	**YMYL _{MYM}	wer when	boot walked the	nddhynyn fr	when the stand of	n/Mythrem	~~~~~	M harlest	www.	amily far the	0 Hz
ST #F	Res	9.00 kHz BW 1.0	: kHz		#VBW	3.0 kHz*		ę		Stop 15 74.0 ms (1 1 DC Cou		
(X)	RL	Spectrum Ar	÷ 50 Ω /			SEN	SE:INT	Avg Type	LIGN AUTO	03:19:11 PM TRACI	Dec 06, 2018 1 2 3 4 5 6	Frequency
		Ret	/Offset 8.5 f 8.58 dE	PI IFC B dB	NO: Fast 🔸 Fain:Low	Atten: 10	dB	Avg Hold:		lkr1 3.4	04 MHz	Auto Tune
	.42											Center Freq 15.075000 MHz
-1 -2											-20.00 dDm	Start Freq 150.000 kHz
-3												Stop Freq 30.000000 MHz
-4 -5			1									CF Step 2.985000 MHz Auto Man
-6	1.4 1.4	pellywrutechie										Auto Man Freq Offset 0 Hz
-8			" when the	nd all and and	rengenetylenderp	a postimation of the state	fæskeffellek-stelenje	unialtra ladana	halan an a	for had an a specific state of the second	ipernal kalenderging	0 12
SI #F	tart Res a	150 kHz BW 10 k	Hz		#VBW	30 kHz*		ŝ		Stop 30 68.3 ms (1 1 DC Cou		
1 11	R L	Spectrum Ar RF ter Freq	50.0	AC 00000 G	Hz NO: Fast ↔	SEN	ISE:INT	Avg Type Avg Hold:	ALIGNAUTO : RMS 4/100	03:19:14 PM TRACI TYP	1Dec 06, 2018 E 1 2 3 4 5 6 E MWWWW	Frequency
19	dB	Ref div Re	/ Offset 7.9 f 30.00 d	IFC	Sain:Low	#Atten: 40	dB			r2 25.7		
	0.0	^1										Center Freq 13.015000000 GHz
	0.0	<u>ү</u> .										Start Freq 30.000000 MHz
	0.0										-13.00 dBm	Stop Freq 26.00000000 GHz
	0.0								manter	ana ta ang ta	- Har A	CF Step 2.597000000 GHz Auto Man
	0.0	-	her all the second and the		<i>اسر_{ان و}رویوانی ایند</i>		Santon Constant	- Ann				Freq Offset 0 Hz
	0.0											
SI #F	Res	30 MHz BW 1.0	MHz		#VBW	3.0 MHz			Sweep 64	4.93 ms (*	6.00 GHz 1001 pts)	

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CSF Test Gr	aph(s) (Channel Ba	ndwidth: 5 MHz)_MCH_C	PSK
Agilent Spectrum Analyzer - Swept SA	SENSE:INT	ALIGNAUTO 03:19:36 PMDec 06, 2018	
Ref Offset 8.58 dB 10 dB/div Ref 8.58 dBm	PNO: Wide Trig: Free Run IFGain:Low #Atten: 10 dB	Avg Type: RMS Avg Hold: 8/100 Mkr1 11.679 kHz -72.713 dBm	Auto Tune
			Center Freq 79.500 kHz
-11.4			Start Freq 9.000 kHz
-31.4			Stop Freq 150.000 kHz
-41.4			CF Step 14.100 kHz
-61.4 -71.4 1			Auto Man Freq Offset
	whownantorwater	he who we der from the second and the second	0 Hz
Start 9.00 kHz #Res BW 1.0 kHz	#VBW 3.0 kHz*	Stop 150.00 kHz Sweep 174.0 ms (1001 pts)	
Aglient Spectrum Analyzer - Swept SA OW RL RF SORADC Center Freq 15.075000 MH	Z SENSE:INT	ALIGNAUTO 03:19:41 PM Dec 06, 2018 Avg Type: RMS TRACE 12:3 4 5 E Avg Hold: 8/100 Type Mwwww.	Frequency
	PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 10 dB	Avg Hold: 8/100 TYPE MAXAAA DerlA AAAAA Mkr1 986 kHz -59.725 dBm	Auto Tune
-1.42			Center Freq 15.075000 MHz
-11.4			Start Freq 150.000 kHz
-31.4			Stop Freq 30.000000 MHz
-41.4			CF Step 2.985000 MHz <u>Auto</u> Man
-61.4			Freq Offset
	มีระใจข่ะสะในเข้าเป็นสารที่มีหนึ่งเห็นของได้ได้แก่งเห็นสารที่มีได้เห็น 	where the the second of the second state of th	
Start 150 kHz #Res BW 10 kHz ^{MSG}	#VBW 30 kHz*	Stop 30.00 MHz Sweep 368.3 ms (1001 pts) هتمتنده المعلم ا	
Agilent Spectrum Analyzer - Swept SA XI RL RF 50 9 AC Center Freq 13.015000000		ALIGNAUTO 03:19:45 PMDec 06, 2018 Avg Type: RMS TRACE 1/2 2 4 5 6 AvgHoid: 4/100 Type[Mwwww.beck A A A A	Frequency
Ref Offset 7.98 dB 10 dB/div Ref 30.00 dBm	FGain:Low #Atten: 40 dB	Mkr2 25.714 GHz -30.561 dBm	
20.0 10.0 1			Center Freq 13.015000000 GHz
0.00			Start Freq 30.000000 MHz
-10.0		-13.00 dBm	Stop Freq 26.00000000 GHz
-30.0		and and an and an and and and and and an	CF Step 2.597000000 GHz <u>Auto</u> Man
-50.0			Freq Offset 0 Hz
-60.0 Start 30 MHz		Stop 26.00 GHz	
#Res BW 1.0 MHz	#VBW 3.0 MHz*	Sweep 64.93 ms (1001 pts)	

Aptient Spectrum Analyzer : Swept SA ONE RL RF 50 0 AbC Seven Center Freq 79.500 KHz PN0:Wide →→ IFGeinLow #Atten: 10 d 10 dB/div Ref 0/fact 9.58 dB Log	ENT ALIONAUTO 03:20:07 FMDec 06, 2018 Avg Type: RMS TRACE 1 2 : 3 : 4 : 5 : 6 tun Avg Hold: 9/100 TYPE M WWWWW B	Frequency
PNO: Wide The free free free free free free free fr	DET A A A A A A	Frequency
	Mkr1 9.000 kHz -72.444 dBm	Auto Tune
-1.42		Center Freq 79.500 kHz
-11.4		Start Freq 9.000 kHz
-31.4	-39.00 dDm	Stop Freq 150.000 kHz
-61.4		CF Step 14.100 kHz Auto Man
-61.4 -71.4		Freq Offset
. 81.4 MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	,	
Start 9.00 KHz #Res BW 1.0 KHz #VBW 3.0 KHz* MBG	Stop 150.00 kHz Sweep 174.0 ms (1001 pts) STATUS 1 DC Coupled	
Agilent Spectrum Analyzer - Swept SA Center Freq 15.075000 MHz Freq 15.07500 MHZ Freq 15.0750	Autonauto 03:20:12 PM Dec 00, 2018 Avg Type: RMS TRACE [12:3:4:5:0 tun Avg[Hoid: 8/100 TYPE [M WWWWWW Det IA A A A A	Frequency
IFGaintow #Atten: 10 d 10 dB/div Ref 8.58 dBm	Mkr1 956 kHz -59.164 dBm	Auto Tune
-1.42		Center Freq 15.075000 MHz
-21.4	-29.00 dBm	Start Freq 150.000 kHz
-31.4		Stop Freq 30.000000 MHz
.61.4		CF Step 2.985000 MHz Auto Man
-71.4 Kill Welden Halle		Freq Offset 0 Hz
Start 150 kHz	มชม-มุพริม อาฟ-มุมุมเส สุดมากระวายรังมุมเกาะสมุลสารแหลงมุม-ส Stop 30.00 MHz	
#Res BW 10 kHz #VBW 30 kHz* MBg	Sweep 368.3 ms (1001 pts)	
Center Freq 13.015000000 GHz sever Center Freq 13.015000000 GHz Tigeree If Gaintow sAtten: 40 d	Avg Type: RMS TRACE 123456 trun Avg Hold: 4/100 Type MwAAwa B	Frequency Auto Tune
10 dB/div Ref 30.00 dBm	Mkr2 25.766 GHz -30.188 dBm	Center Freq
20.0 10.0		13.015000000 GHz Start Freq
10.0	-13.00 dBm	30.000000 MHz Stop Freg
-20.0		26.00000000 GHz
.40.0	and the company was the	2.597000000 GHz <u>Auto</u> Man
-60.0		Freq Offset 0 Hz
Start 30 MHz #Res BW 1.0 MHz #VBW 3.0 MHz*	Stop 26.00 GHz Sweep 64.93 ms (1001 pts)	



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	(CSE Tes	st Grap	h(s) ((Chann	el Ban	dwidth	: 5 MH	17) M(CH 16	QAM	
L X /	ent Spectrun R L	n Analyzer - Swo RF 50 Q	apt SA		SEM				03:19:52 PM	Dec 06, 2018		
Ce	nter Fre	eq 79.500	KHZ PN	O: Wide ain:Low	Trig: Free #Atten: 10	Run dB	Avg Type Avg Hold:	RMS 8/100	TRACI TYP DE	E 1 2 3 4 5 6 E MWWWWW T A A A A A A	Frequency	
10,	dB/div	Ref Offset 8.5 Ref 8.58 di	8 dB 3m					м	kr1 13.7 -68.8	794 kHz 58 dBm	Auto Tune	
-1.4	2										Center Freq 79.500 kHz	
-11	4										Start Freq	
-21		-									9.000 kHz	
-31										-33.00 dDm	Stop Freq 150.000 kHz	
-61	4										CF Step 14.100 kHz <u>Auto</u> Man	
-61		1 1 1 1 1 1 1	1 M	M		19 4.1					Freq Offset	
-81	4 4	rd from the Vinit	WWWWWW	,www.wyVill"	oroving	mana	len ture and	WWWYNW	w printing	n/mV(prv)jw	0 Hz	
Sta #R	art 9.00 k es BW 1	Hz .0 kHz		#VBW	3.0 kHz*		ـــــــــــــــــــــــــــــــــــــ	Sweep 17	74.0 ms (*			
MSG		n Analyzer - Swa	apt SA					STATUS	🚹 DC Cou	pled		
() ()	RL	RF 50 Ω 9q 15.0750	A⊡ DOOMHz PN	IO: Fast 🔸	SEM	Run	Avg Type: Avg Hold:	RMS 8/100	03:19:57 PM TRACI TVP	Dec 06, 2018 E 1 2 3 4 5 6 E MWWWWW T A A A A A A	Frequency	
10	dB/div	Ref Offset 8.5 Ref 8.58 di	IFG 8 dB	ain:Low	#Atten: 10	dB			kr1 3.4	04 MHz 55 dBm	Auto Tune	
-1.4											Center Freq 15.075000 MHz	
-11	4										Start Freq	
-21										-29.00 dDm	150.000 kHz	
-41	4										Stop Freq 30.000000 MHz	
-61		● ¹									CF Step 2.985000 MHz <u>Auto</u> Man	
-61	4 4 4	M.									Freq Offset 0 Hz	
-81		WWW	and the state of the second	and which we have a second	Warmannigh	and the state of t	allahala hara ya		Halford Hink arrest	~~~~}).+{h/pr==qu		
#R	art 150 k es BW 1	Hz 0 kHz		#VBW	30 kHz*		£	weep 36	38.3 ms (*			
MSG Agi	ent Spectrun	n Analyzer - Swe	apt SA						1 DC Cou			
	nter Fre	RF 50 Ω 9q 13.0150	AC 000000 GI	Hz IO: Fast ↔ ain:Low	Trig: Free #Atten: 40	Run dB	Avg Type: Avg Hold:	LIGN AUTO RMS 4/100	03:20:00 PM TRACI TVP DE	E 1 2 3 4 5 6 MMMMMM T A A A A A A	Frequency	
10	dB/div	Ref Offset 7.9 Ref 30.00 d						Мн	(r2 25.6	88 GHz 31 dBm	Auto Tune	
20											Center Freq 13.015000000 GHz	
10	₀ ↓ 1										Start Freq	
0.0											30.000000 MHz	
-10 -20										-13.00 dBm	Stop Freq 26.00000000 GHz	
-30							- Maria		water the state of	and the second	CF Step 2.597000000 GHz <u>Auto</u> Man	
-40	and a start	and the second		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	and the second	and the selection of the					Freq Offset 0 Hz	
-60	0										U HZ	
#R	art 30 MH es BW 1	Hz .0 MHz	1	#VBW	3.0 MHz	•	s		Stop 20 4.93 ms (*	6.00 GHz 1001 pts)		
MSG								STATUS				

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		C	SE Te	st Gra	aph(s)	(Chanr	nel Bai	ndwidtł	า: 5 M⊦	lz)_HC	CH_16	QAM
Agil	ent Spe R L		nalyzer - Sw		/		NCC-INT		ALICNALITO		1Dec 06, 2018	
Ce	nter	Freq	79.500		PNO: Wide •	Trig: Fre	e Run	Avg Type Avg Hold:	: RMS 8/100	TRACI TYP		Frequency
19.	dB/div	v Re	offset8. of 8.58 d	58 dB	IFGain:Low	#Atten: 1			Mk	r1 100.0	086 kHz 90 dBm	Auto Tune
-1.4												Center Freq 79.500 kHz
-11.	4											Start Freq
-21.				-								9.000 kHz
-31.											-99:00 dDm	Stop Freq 150.000 kHz
-61.	4											CF Step 14.100 kHz
-61.	4							♦ ¹				Auto Man Freq Offset
-71. -81.	_ 	while w	YUN4/VA	uh/imm/w	VWWW	www.mlww	mm/h/m	- X 01	www.www	m your	ᠾᡥᡰᢇᡁᡀᡊᠰ	0 Hz
Sta	art 9.	.00 kH	z						_		0.00 kHz	
#R MSG	es B	W 1.0	kHz		#VB	W 3.0 kHz	×		Sweep 17 STATUS	74.0 ms (* <u>1</u> DC Cou		
LX(RL	F	nalyzer - Sw F 50 S 15.075	ADC	z	S	INSE:INT	Avg Type Avg Hold	ALIGNAUTO	03:20:28 PM	1Dec 06, 2018 E 1 2 3 4 5 6 E MWWWWW T A A A A A A	Frequency
		Re	of Offset 8. of 8.58 d		PNO: Fast + IFGain:Low	#Atten: 1	lo dB	Avg Hold:	8/100	Mkr1 9	986 kHz	Auto Tune
		v R	ef 8.58 d	Bm						-61.73	35 dBm	Center Freq
-1.4												15.075000 MHz
-21.											-29.00 dDm	Start Freq 150.000 kHz
-31.												Stop Freq 30.000000 MHz
-41. -61.												CF Step
-61.		1 										2.985000 MHz <u>Auto</u> Man
-71.	4	mul	Hu Yuw									Freq Offset 0 Hz
-81.				Mrspersterni	gt the and the second	dipeting the second	4comptiviterie-ivel	u.profitVitat/stAb	Kine menter and and a second			
Sta #R	art 15 es Bi	50 kHz W 10	z KHz		#VB	W 30 kHz'			Sweep 36	Stop 30 38.3 ms (1 1 DC Cou		
LX/	RL	F	nalyzer - Sw 8F 50 \$	AC		SE	NSE:INT	-	ALIGNALITO	03:20:31 PM	1Dec 06 2018	Frequency
Ce	nter		13.015		GHz PNO: Fast - IFGain:Low	Trig: Fre #Atten: 4	e Run 10 dB	Avg Type Avg Hold				Frequency Auto Tune
18;		v Re	ef Offset 7. ef 30.00	98 dB dBm					MI	-30.54	66 GHz 47 dBm	
20.	.0											Center Freq 13.015000000 GHz
10.	ľ	<u>, </u>										Start Freq 30.000000 MHz
-10.											-13.00 dBm	Stop Freq
-20.	•										2	26.00000000 GHz
-30.							nuner	-	- Marganese	source and	and the second	CF Step 2.597000000 GHz <u>Auto</u> Man
-40.	reh	*****	مر میں میں ا		nes and a second dama	and and and and a second	Contraction of the second					Freq Offset 0 Hz
-60.	o —											0 Hz
Sta #R	art 30 es Bi	0 MHz W 1.0	MHz		#VB	W 3.0 MH:	 z*		Sweep 64	Stop 20 1.93 ms (*	6.00 GHz 1001 pts)	
MSG									STATUS			

CSE Tost (Graph(s) (Channel Ba	ndwidth: 10 MHz)	CH ODSK	
Agilent Spectrum Analyzer - Swept SA				
Center Freq 79.500 kHz		Avg Type: RMS TRACE Avg Hold: 9/100 Type	TAAAAAA	
Ref Offset 8.58 dB 10 dB/div Ref 8.58 dBm Log	IFGain:Low #Atten: 10 dB	Mkr1 10.1		
-1.42			Center Freq 79.500 kHz	
-11.4			Start Freq 9.000 kHz	
-31.4				
-41.4			CF Step	
-61.4			14.100 kHz Auto Man	
-71.4 -81.4	Museuman water	Annal manager	Freq Offset 0 Hz	
Start 9.00 kHz #Res BW 1.0 kHz	#VBW 3.0 KHz*		0.00 kHz	
 MSG		STATUS 1 DC Cou		
 Agilent Spectrum Analyzer - Swept SA	SENSE:INT	ALIGNAUTO D3:20:44 PM	Dec 06, 2018	
Center Freq 15.075000	MHz PNO: Fast +++ Trig: Free Run IFGain:Low #Atten: 10 dB	Avg Type: RMS TRACE Avg Hold: 8/100 TYPE DET	TAAAAAA	
Ref Offset 8.58 dB 10 dB/div Ref 8.58 dBm Log		Mkr1 1.88		
-1.42			Center Freq 15.075000 MHz	
-11.4			-29-00 dBm 150.000 kHz	
-31.4			Stop Freq 30.000000 MHz	
-41.4			CF Step 2.985000 MHz	
-61.4 • ¹			Auto Man	
-71.4 (Au) 11 11 11 11 11 11 11 11 11 11 11 11 11	Marty to the second and a second second		o Hz	
Start 150 kHz		Stop 30	0.00 MHz	
#Res BW 10 kHz	#VBW 30 kHz*	Sweep 368.3 ms (1 STATUS 1 DC Cou	1001 pts)	
Agilent Spectrum Analyzer - Swept SA				
Center Freq 13.015000	DOO GHZ	ALIGN AUTO 03:20:47 PM Avg Type: RMS TRACE Avg Hold: 4/100 TYPP	Dec 06, 2018 1 2 3 4 5 6 Frequency	
Ref Offset 7.98 dB	PNO: Fast Trig: Free Run IFGain:Low #Atten: 40 dB	Mkr2 25.6	88 GHz 72 dBm	
10 dB/div Ref 30.00 dBm			Center Freq 13.015000000 GHz	
10.0			Start Freq	
-10.0			30.000000 MHz	
-20.0			26.00000000 GHz	
-30.0	the wind way and the a		CF Step 2.59700000 GHz Auto Man	
-50.0			Freq Offset 0 Hz	
-60.0 Start 30 MHz #Res BW 1.0 MHz		Stop 26 Sweep 64.93 ms (1	5.00 GHz	
	#VBW 3.0 MHz*			

	CSE Test Graph(s) (Channel Ba	odwidth: 10 M	(Hz) MCH C	PSK	
Agilent Spect	rum Analyzer - Swept SA RF 50 Q 🛆 DC		ALIGNAUTO	03:21:09 PMDec 06, 2018	Frequency	
Center F	req 79.500 kHz PNO: Wid IFGain:Lo Ref Offset 8.58 dB	le ↔ Trig: Free Run w #Atten: 10 dB	Avg Type: RMS Avg Hold: 9/100	TRACE 1 2 3 4 5 6 TYPE MWWWW DET A A A A A A	Auto Tune	
10 dB/div	Ref 8.58 dBm			-72.195 dBm	Center Freq	
-1.42					79.500 kHz	
-21.4					Start Freq 9.000 kHz	
-31.4				-00.00 dDm	Stop Freq 150.000 kHz	
-51.4					CF Step 14.100 kHz Auto Man	
-61.4					Auto Man Freq Offset	
-71.4 -81.4	Male of the second way and the	the way and a provident	Month Marin Marine Marine	will when the work of the second	0 Hz	
Start 9.00 #Res BW) kHz	VBW 3.0 kHz*		Stop 150.00 kHz 74.0 ms (1001 pts)		
MSG				DC Coupled	J	
Center F	rum Analyzer - Swept SA RF 50 ♀ ▲ ▷⊂ req 15.075000 MHz PN0: Fa	st +++ Trig: Free Run w #Atten: 10 dB	ALIGNAUTO Avg Type: RMS Avg Hold: 8/100	03:21:14 PM Dec 06, 2018 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET A A A A A A	Frequency	
10 dB/div	IFGain:Lo Ref Offset 8.58 dB Ref 8.58 dBm	Whiten. Io da	N	/kr1 2.598 MHz -60.131 dBm	Auto Tune	
-1.42					Center Freq 15.075000 MHz	
-11.4					Start Freq 150.000 kHz	
-31.4				~29.00 dBm	Stop Freq	
-41.4					30.000000 MHz	
-51.4	∳ ¹				2.985000 MHz <u>Auto</u> Man	
-71.4 ph 10	Whom muture experiments	Reption combined to black a second		1	Freq Offset 0 Hz	
-81.4 Start 150		an star manaka shekarakara	ingen under aller och sind hand hand hand der	Stop 30.00 MHz		
#Res BW		VBW 30 kHz*	Sweep 3	68.3 ms (1001 pts)		
IXI RL	rum Analyzer - Swept SA RF 50 Q AC req 13.015000000 GHz	SENSE:INT	ALIGNAUTO Avg Type: RMS Avg Hold: 4/100	03:21:18 PMDec 06, 2018 TRACE 1 2 3 4 5 6 TYPE MWWWWWWW DET A A A A A	Frequency	
	Ref Offset 7.98 dB Ref 30.00 dBm	st Trig: Free Run www. #Atten: 40 dB		kr2 25.610 GHz -30.510 dBm	Auto Tune	
10 dB/div 20.0	Ref 30.00 aBm				Center Freq	
10.0					13.015000000 GHz	
0.00					30.000000 MHz	
-10.0				-13.00 dBm	Stop Freq 26.000000000 GHz	
-30.0			-Mare Jone at an	- mar and the second	CF Step 2.59700000 GHz Auto Man	
-40.0		and the second	and the second s		FreqOffset	
-60.0					0 Hz	
Start 30 N #Res BW	инz 1.0 MHz #	VBW 3.0 MHz*	Sweep 6	Stop 26.00 GHz 4.93 ms (1001 pts)		
мва			STATUS			

	CSE Test	Graph(s) (Chan	nel Bandwid	h: 10 MHz)	нсн ог	PSK	
Agite	nt Spectrum Analyzer - Swept S				PMDec 06, 2018		
Cei	nter Freq 79.500 kH	PNO: Wide +++ Irig: Fr	Avg Ty ee Run Avg Ho	e: RMS TR d: 8/100 1	ACE 1 2 3 4 5 6 TYPE MWAWAWA DET A A A A A A	Frequency	
18 5	Ref Offset 8.58 d B/div Ref 8.58 dBm				.204 kHz 730 dBm	Auto Tune	
-1.42	2					Center Freq 79.500 kHz	
-11.4	4					Start Freq 9.000 kHz	
-31	1					Stop Freq 150.000 kHz	
-61.4	1					CF Step 14.100 kHz Auto Man	
-61.4						Freq Offset 0 Hz	
-81.4		and a share and a second and a second	www.				
Sta #Re	rt 9.00 kHz es BW 1.0 kHz	#VBW 3.0 kH	z*	Sweep 174.0 ms			
Aglic	nt Spectrum Analyzer - Swept S RL RF 50 Q 🔥 D	C	ENSE:INT	ALIGNAUTO 03:21:46	PMDec 06, 2018	Frequenci	
Ce	nter Freq 15.075000	PNO: Fast +++ Trig: Fr IFGain:Low #Atten:	Avg Ty ee Run Avg Ho	e: RMS TR d: 8/100 T	ACE 1 2 3 4 5 6 VPE MWAAAAAA DET A A A A A A	Frequency	
10 c	Ref Offset 8.58 d B/div Ref 8.58 dBm			Mkr1 7. -61.	075 MHz 508 dBm	Auto Tune	
-1.42	2					Center Freq 15.075000 MHz	
-11.4	1				-29.00 dDm	Start Freq 150.000 kHz	
-31	1					Stop Freq 30.000000 MHz	
-61.4	1	▲1				CF Step 2.985000 MHz Auto Man	
-61.4	. Mulangham Courses when way	Alley and a				Freq Offset 0 Hz	
-81.4	1	"Unphilipsophic period	หนึ่งใช้สารารของสาราสสาราสุรัตร์ไปสุดชัตร์และ	เร _า ประหา _ต อได <i>ด</i> สุดประชาชาติเป็นทุก	as you have been as		
Sta #Re	rt 150 kHz es BW 10 kHz	#VBW 30 kHz	*	Sweep 368.3 ms			
	nt Spectrum Analyzer - Swept S	c c	ENSE:INT	ALIGNAUTO 03:21:49	PMDec 06, 2018		
	nter Freq 13.015000	1000 GHz PNO: Fast Trig: Fr IFGain:Low #Atten:	Avg Ty ee Run Avg Ho 40 dB	e: RMS TR d: 4/100 T	ACE 1 2 3 4 5 6 VPE MWAAAAAA DET A A A A A A	Frequency	
10 c	Ref Offset 7.98 d B/div Ref 30.00 dB	в		Mkr2 25. -30.:	792 GHz 220 dBm	Auto Tune	
20.0						Center Freq 13.015000000 GHz	
10.0						Start Freq 30.000000 MHz	
-10.0					-13.00 dDm	Stop Freq	
-20.0						26.00000000 GHz	
-30.0		and any of a substantian and a substantian		en main and a more and	man the state of the	CF Step 2.597000000 GHz <u>Auto</u> Man	
-50.0					+	Freq Offset 0 Hz	
-60.0 Sta	rt 30 MHz			Stop Sweep 64.93 ms	26.00 GHz		
#Re	s BW 1.0 MHz	#VBW 3.0 MH	Z*	Sweep 64.93 ms	(1001 pts)		

Report	No.:	LCS181130008AE0	5

		CS	E Tes	t Grap	h(s) (0	Channe	el Ban	dwidth	: 10 M	Hz)_L	CH_16	QAM
1 11	RL	RE	alyzer - Swe	N DC) gen	ISE:INT		LIGNAUTO	03:20:54 04	1Dec 06, 2018	
Ce	nter	Freq	79.500		IO: Wide	Trig: Free	Run	Avg Type Avg Hold:	8/100	TRAC	E 1 2 3 4 5 6 E M M A A A A A	Frequency
10	dB/div	Rei v Re	f Offset 8.5 f 8.58 dE	IFO	3ain:Low	#Atten: 10	dB			kr1 13.6	653 kHz 91 dBm	Auto Tune
-1.4												Center Freq 79.500 kHz
-11	.4											
-21	4											Start Freq 9.000 kHz
-31	.4										-99.00 dDm	Stop Freq
-41	4											150.000 kHz
-51	4											CF Step 14.100 kHz <u>Auto</u> Man
-61		1										Freq Offset
-71	MM	WWW	Nr Windows	MANAM	man		www.	why mush have	are Man Ar	MANAA	MANAN	0 Hz
-81				4121	• • • • •	akun t.	-14 and 4	V ¶ V	h luû			
#R	es Bl	00 kHz W 1.0	z kHz		#VBW	3.0 kHz*				74.0 ms (
MSG Agit		actrum Ar	nalyzer - Swe	pt SA						1 DC Cou		
Ce	nter	Freq	15.0750	00 MHz	NO: Fast 🔸	SEN	Run	Avg Type Avg Hold:	LIGNAUTO RMS 8/100	03:20:59 PM TRAC TYP DE	E 1 2 3 4 5 6 MWWWWW T A A A A A A	Frequency
10	dB/div	Ref Re	f Offset 8.5 f 8.58 dE		sain:Low	#Atten: 10			N		28 MHz 37 dBm	Auto Tune
-1.4												Center Freq 15.075000 MHz
-11												
-21	4										-25.00 dDm	Start Freq 150.000 kHz
-31	.4											Stop Freq
-41	4											30.000000 MHz
-61												CF Step 2.985000 MHz <u>Auto</u> Man
-61	4 www.	white	where									Freq Offset
-71 -81	4			www.www.wileyl	-	www.ana	holy of the state	-	a for the second second	bornaparatina	where where the	0 Hz
		50 1-1-				4	3	¢0 اند د ا⊢ ∟	and the second	Stop 2	0.00 MHz	
Sti #R	es Bi	50 kHz W 10 k	Hz			30 kHz*			Sweep 3	Stop 30 68.3 ms (DC Cou	1001 pts)	
L)XI	RL	RF	nalyzer - Swe = 50 Ω	AC		SEN	ISE:INT			03:21:02 PM	1Dec 06. 2018	_
Ce	nter	Freq	13.0150	00000 G	iHz NO:Fast ↔ Sain:Low	Trig: Free #Atten: 40	Run	Avg Type Avg Hold:	4/100	TRAC TYP DE	E 1 2 3 4 5 6 E M M A A A A A	Frequency
10	dB/div	v Ret	f Offset 7.9 f 30.00 d	8 dB	Some ow				м	kr2 25.6		Auto Tune
20												Center Freq 13.015000000 GHz
10		1										Start Freq
0.0	20											30.000000 MHz
-10	•										-13.00 dDm	Stop Freq 26.00000000 GHz
-20											2	
-30								and the second	anter an and	والبرجي المالاتين سرواني	and survey and	CF Step 2.597000000 GHz <u>Auto</u> Man
-40	m.	www.awawa	Mark Market		مىر، مامىرىيە مەراھارىيە	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	and the second					Freq Offset
-60												0 Hz
		D MHZ								Ctore C	6.00.01	
Sta #R	es Bl	W 1.0	MHz		#VBW	3.0 MHz'	v	5	Sweep 6	4.93 ms (6.00 GHz 1001 pts)	
										I		

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			t Grank	(c)	hanne	Band	dwidth:	10 M	17) M			
A	gilent Spect	CSE Tes			nanne	a Dario						
	enter F	req 79.500		D:Wide	Trig: Free	Run	Avg Type Avg Hold:	align auto : RMS 8/100	03:21:25 PM TRACI TYP	E 1 2 3 4 5 6 E MWWWWWW T A A A A A A	Frequency	
2	0 dB/div	Ref Offset 8. Ref 8.58 di		ain:Low	#Atten: 10			м	kr1 10.8	333 kHz 96 dBm	Auto Tune	
	.42										Center Freq 79.500 kHz	
	21.4										Start Freq 9.000 kHz	
	31.4									-00.00 dDm	Stop Freq 150.000 kHz	
	51.4										CF Step 14.100 kHz <u>Auto</u> Man	
-E	1.4										Freq Offset	
-6	31.4 MMar	whather	hwampart	/Tail/ ^{Ma} y/rol	Apopt Maple	apenter and	hunny	physion	Whym	MAMM	0 Hz	
#	tart 9.00 Res BW) kHz 1.0 kHz	I	#VBW	3.0 kHz*		5	Sweep 1	Stop 15 74.0 ms (7			
A		rum Analyzer - Sw	ept SA		an ^{art}	Notes and the	1					
	enter F	RF 50 Ω Treq 15.0750	A ▷⊂ DOO MHz PN	O: Fast +++ ain:Low	Trig: Free	Run	Avg Type Avg Hold:	: RMS	03:21:30 PM TRACI TYP	E 1 2 3 4 5 6 E MMMMMM T A A A A A A	Frequency	
2	0 dB/div	Ref Offset 8. Ref 8.58 di		ain:Low	#Atten: 10	dB		M	kr1 1.8	81 MHz 77 dBm	Auto Tune	
-1	.42										Center Freq 15.075000 MHz	
	21.4									-23.00 dDm	Start Freq 150.000 kHz	
-3	31.4										Stop Freq 30.000000 MHz	
-6	51.4										CF Step 2.985000 MHz <u>Auto</u> Man	
	1.4 W.40.44	humand	way with a								Freq Offset 0 Hz	
	31.4	KHZ		mumaikaplati	unat-laitezt	hrybrythrkythij vyd	undelikuvski filiti	ti napatrata na finang ta	all the second	entral-stewingertoriu		
#	tart 150 Res BW				30 kHz*			Sweep 30		1001 pts)		
() (RL	rum Analyzer - Sw RF 50 ຊ	AC		SEN	ISE:INT	Aug 7	ALIGNAUTO	03:21:33 PM	1Dec 06, 2018	Frequency	
		Ref Offset 7.5	PN IFG	HZ Ο: Fast ↔⊷ ain:Low	Trig: Free #Atten: 40	Run dB	Avg Type Avg Hold:		r2 26 0	00 GHz	Auto Tune	
	20.0	Ref Offset 7.9 Ref 30.00 (Bm						-30.71	15 dBm	Center Freq 13.01500000 GHz	
	10.0										Start Freq	
	0.00									-13.00 dDm	30.000000 MHz Stop Freq	
	20.0									2	26.00000000 GHz	
	10.0 10.0	and the strates to a second		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		and and the second second	m	umanin'		me han to see	CF Step 2.597000000 GHz <u>Auto</u> Man	
	i0.0 i0.0										Freq Offset 0 Hz	
		MHz 1.0 MHz		#VBW	3.0 MHz*	v	s	Sweep 64	Stop 20	6.00 GHz 1001 pts)		
	ю							STATUS				

Aglient Spectrum Analyzer, Swept 55 Ref 0:00 kHz Center Freq 79.500 kHz Ref 0:00 kHz 1.42 -1.42 - -1.43 - -1.44 -	PNO: Wide +++ IFGain:Low #Atten: 10 dB	ALIGNAUTO Avg Type: RMS Avg Hold: 8/100	09:21:57 FMOx: 00, 2018 TRACE 10:3 - 4.5 6 TYTE HANNAG cert 1 10.551 kHz -72.159 dBm	Frequency Auto Tune Center Freq 79.500 kHz
Center Freq 79.500 kHz	PNO: Wide ++- Trig: Free Run IFGain:Low #Atten: 10 dB			Auto Tune Center Freq
-1.42 -11.4 -21.4 -31.4 -41.4 -61.4				Center Freq
-11.4 -21.4 -31.4 -41.4 -61.4				
-21.4				
-31.4				Start Freq
-41.4				9.000 kHz
-61.4			~00.00 dDm	Stop Freq 150.000 kHz
				CF Step
			e	14.100 kHz Auto Man
-71.4				Freq Offset
-21.4 Way Mary John Mary	white the the the property of	why April Manna M	Mar Mary	0 Hz
Start 9.00 kHz		v	Stop 150.00 kHz	
 #Res BW 1.0 kHz	#VBW 3.0 kHz*		74.0 ms (1001 pts)	
Agilent Spectrum Analyzer - Swept SA W/RL RF 50 @ ADC Center Freq 15.075000	SENSE:INT	ALIGNAUTO Avg Type: RMS	03:22:02 PMDec 06, 2018	Frequency
Center Freq 15.075000	PNO: Fast Trig: Free Run IFGain:Low #Atten: 10 dB		03:22:02 PM Dec 06, 2018 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET A A A A A	Auto Tune
10 dB/div Ref 8.58 dBm	3	IVI	kr1 2.657 MHz -62.715 dBm	
-1.42				Center Freq 15.075000 MHz
-11.4				Start Freq
-21.4			-29.00 dDm	150.000 kHz
-31.4			——————————————————————————————————————	Stop Freq 30.000000 MHz
-41.4				CF Step
			e	2.985000 MHz Auto Man
-71.4 Willow and marty last along				Freq Offset 0 Hz
-81.4	Willy Marken and Antonina and	เหล่าสู่รุ่งขางเหม่มีแล่งกับกลุ่มส่งใสสารเจริการ์	treaking the subscription of the second	
Start 150 kHz #Res BW 10 kHz	#VBW 30 kHz*	Sween 36	Stop 30.00 MHz \$8.3 ms (1001 pts)	
	#VBVV JU RHZ"	aweep Ju	DC Coupled	
Agilent Spectrum Analyzer - Swept SA IXI RL RF 50 Q AC Center Freq 13.01500000	SENSE:INT	ALIGNAUTO Avg Type: RMS Avg Hold: 4/100	03:22:05 PMDec 06, 2018 TRACE 1 2 3 4 5 6	Frequency
	PNO: Fast Trig: Free Run IFGain:Low #Atten: 40 dB		TRACE 123456 TYPE MWWWW DET A A A A A A	Auto Tune
10 dB/div Ref 30.00 dBm			r2 25.610 GHz -31.037 dBm	
20.0				Center Freq 13.015000000 GHz
10.0				Start Freq
0.00				30.000000 MHz
-10.0			-13.00 dBm	Stop Freq 26.000000000 GHz
-30.0				CF Step 2.597000000 GHz
-40.0	and the second and th	manneyman	A have been and the same of th	Auto Man
-50.0				Freq Offset 0 Hz
-60.0			₽	