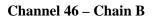
	1134 = Chann A			
			ctrum Analyzer - Swept SA	
AC SENSE:INT ALIGN AUTO 11:04:24PM Aug 16, 2011 #Avg Type: Pwr(RMS) TRACE 12 3 4 5 6 Frequency	#Avg Type: Pwr(RMS)		50 Ω	XI RL
#Atten: 30 dB	1B	PNO: Fast Trig: Free IFGain:Low #Atten: 30	Input: RF	
Mkr1 5.665 15 GHz -2.52 dBm	Mkr1 5		Ref 20.00 dBm	10 dB/div
Center Free				-
5.67000000 GH				10.0
1 Start Free	all hours and the set and the set		Mar all and a second and a second and a second and a second a se	0.00
5.645000000 GH	1 a fall we are an anna an anna an	and an an arranged	At the apple where the	-10.0
				-20.0
5.69500000 GH			1	-30.0
			d-upla	mant
CF Stel 5.000000 MH				40.0
Auto Mai				50.0
Freq Offse				60.0
ОН				70.0
Span 50.00 MHz BW 1.0 MHz #Sweep 500 ms (1001 pts)	#Sweep 50	#VBW 1.0 MHz	67000 GHz 1.0 MHz	Center 5.6 #Res BW
STATUS			na porte a del provincio de l'Al 2017 Del 201	ISG

# Channel 134 – Chain A

		Channel 30			
DAgilent Spectrum Analyzer -	Swept SA				
02/ RL 50 Ω Center Freq 5.1900 Ιπ	put: RF PNO: Fast 😱	] Trig: Free Run	ALIGN AUTO #Avg Type: Pwr(RMS	01:53:51 PM Aug 17, 2011 TRACE 1 2 3 4 5 6 TYPE A WWWWW DET S N N N N	Frequency
10 dB/div Ref 20.00	IFGain:Low	#Atten: 30 dB	Mkr	1 5.177 80 GHz -4.10 dBm	Auto Tune
10.0					Center Freq 5.190000000 GHz
-10.0	1 Power the state of the state	ALOSHANNY LAND	rdrawstalling and an and	market and a local	<b>Start Freq</b> 5.165000000 GHz
-20.0					<b>Stop Freq</b> 5.215000000 GHz
-40.0 Holy Manual				h harana	CF Step 5.000000 MHz <u>Auto</u> Man
-60.0					Freq Offset
-70.0					
Center 5.19000 GHz #Res BW 1.0 MHz	#VBW	3.0 MHz	#Sweep	Span 50.00 MHz 500 ms (1001 pts)	
🛃 start 🔰 🤨 🛤 🤗	D Agilent Spectrum Ana				🔇 💐 🕘 🔎 1:53 PM

Channel 38 – Chain B



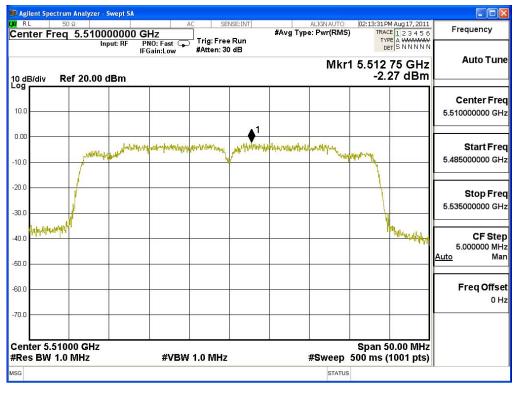


🛙 Agilent Spectrum Analyzer - S	wept SA			
RL 50 Ω Center Freq 5.27000	00000 GHz ut: BE PNO: East Trig: Free			Frequency
0 dB/div Ref 20.00 d	IFGain:Low #Atten: 30		r1 5.271 65 GHz -3.28 dBm	Auto Tun
og 10.0				Center Fre 5.270000000 GH
0.00	wat the of the provide the second second	har a special processing and the second second second	en un all the	Start Fre 5.245000000 GH
80.0				<b>Stop Fre</b> 5.295000000 GH
			A and the second second	CF Ste 5.000000 Mi <u>Auto</u> Mi
0.0				Freq Offs
Center 5.27000 GHz Res BW 1.0 MHz	#VBW 3.0 MHz	#Sweep	Span 50.00 MHz 500 ms (1001 pts)	

Channel 54 – Chain B

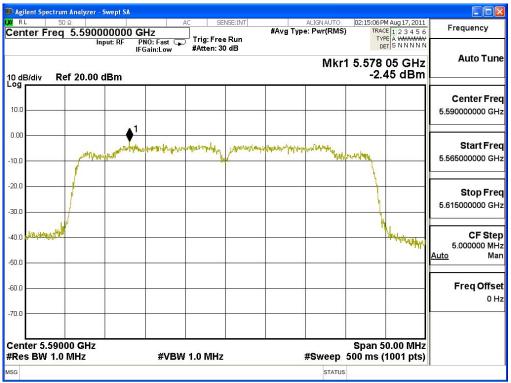
Channel 62 – Chain B





**Channel 102 – Chain B** 

Channel 118 – Chain B



🎾 Agilent Spectrum Analyzer - Sv	wept SA			
Center Freq 5.67000	00000 GHz	NSE:INT ALIGN AUTO #Avg Type: Pwr(RM	S) TRACE 1 2 3 4 5 6	Frequency
10 dB/div Ref 20.00 d	IFGain:Low #Atten: 3	0 dB	r1 5.672 40 GHz -3.30 dBm	Auto Tune
10.0				Center Freq 5.670000000 GHz
-10.0	had a second and the second and the second	and the second start and a start of the second	www.	Start Freq 5.645000000 GHz
-20.0				<b>Stop Freq</b> 5.695000000 GHz
-40.0 1447 1447 1447			Manyanyanya	CF Step 5.000000 MHz <u>Auto</u> Mar
-60.0				Freq Offse 0 Hi
-70.0			Span 50.00 MHz	
#Res BW 1.0 MHz	#VBW 1.0 MHz	stat	o 500 ms (1001 pts)	

### Channel 134 – Chain B

# 5. Peak Excursion

## 5.1. Test Equipment

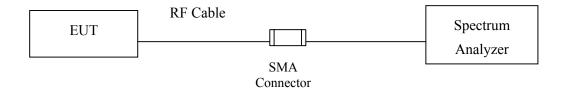
	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2011
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2011
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr.,2011

Note:

- 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
- 2. The test instruments marked with "X" are used to measure the final test results.

## 5.2. Test Setup

### **Conduction Power Measurement**



## 5.3. Limits

The ratio of the peak excursion of the modulation envelope (measured suing a peak hold function) to the peak transmit power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

# 5.4. Test Procedure

The EUT was setup to ANSI C63.4, 2009; tested to DTS test procedure of Aug 2002 DA 02-2138 for compliance to FCC 47CFR Subpart E requirements.

# 5.5. Uncertainty

± 1.27 dB

# 5.6. Test Result of Peak Excursion

Product	:	Plug-In PC.
Test Item	:	Peak Excursion
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmitter (802.11a-6Mbps)

Channel No.	Frequency (MHz)	Measurement Level (dB)	Required Limit (dB)	Result
36	5180	6.829	<13	Pass
44	5220	6.698	<13	Pass
48	5240	6.393	<13	Pass
52	5260	5.843	<13	Pass
60	5300	6.050	<13	Pass
64	5320	6.631	<13	Pass
100	5500	5.341	<13	Pass
120	5600	6.408	<13	Pass
140	5700	5.259	<13	Pass

# Channel 36:

L 50 Ω		AC SENSE:INT	ALIGN AUTO	03:25:54 PM Aug 17, 2011	Frequency
enter Freg 5.1800	100000 GHz put: RF PNO: Fast IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE MM <del>W///////////////////////////////////</del>	Frequency
) dB/div Ref 20.00	dBm		Mkr2	5.180 050 GHz 1.720 dBm	Auto Tu
pg		2			
0.0 .00	The stand and the stand of the second stand and the second stand stand stand stand stand stand stand stand stand		Landon Mirani Mirani Math		Center Fr 5.180000000 G
0.0 <b></b>				West and the second	0.100000000
				A REAL PROPERTY OF THE REAL PR	Start Fr
).0 ).0					5.167500000 0
0.0					
0.0					Stop Fr 5,192500000 G
0.0					5.192500000 G
enter 5.18000 GHz Res BW 1.0 MHz	#VE	SW 3.0 MHz	#Sweep	Span 25.00 MHz 500 ms (1001 pts)	CF St
(R MODE TRC SCL	×	Y	UNCTION FUNCTION WIDTH		2.500000 N Auto N
1 N 1 f 2 N 2 f	5.172 800 GHz 5.180 050 GHz	8.549 dBm 1.720 dBm			
3					Freq Off
5					0
7					
9 0 1					



🛙 Agilent Spe	ctrum Ar	alyzer - Sv	wept SA								
XI L	50 Ω				AC SE	ENSE:INT		ALIGN AUTO		PM Aug 17, 2011	Frequency
Center Fi	req 5		ut: RF PN	lZ O: Fast ain:Low	Trig: Fre Atten: 30			Type: Log-Pwr Hold: 95/100	TY	CE 1 2 3 4 5 6 PE MMWWWW DET P S N N N N	
10 dB/div	Ref	20.00 d	Bm					Mkr2		975 GHz 37 dBm	Auto Tun
		20.00 4			/\1						
10.0		a	ละพัฒนาเม	him and	\ Z	2	Multi-	มันเหมมีเสียง เสียงการในท			Center Fre
10.00		(Jan and a land			1. and 1. 1. 1. 1. 1. 1. 1. 1.	19/*0*-1·/· ·			Star Star	North Harrison	5.220000000 GH
	IN WY								1	Ward Hun	
The same t	47									MAN PARTY	Start Fre
40.0											5.207500000 GH
50.0									2		
60.0					_						Stop Fre
70.0	_			-		-	-		-		5.232500000 GH
enter 5.2	22000	GHz						0	Span 2	25.00 MHz	
Res BW				#VE	SW 3.0 MHz			#Sweep		(1001 pts)	CF Ste 2.500000 MH
KR MODE TF	C SCL		×		Y		FUNCTION	FUNCTION WIDTH	FUNCT	ON VALUE	Auto Ma
1 N 1 2 N 2			5.217 375		8.535 c 1.837 c			-			
2 N 2 3	-		5.219975	GHZ	1.837 0	БШ					Freq Offs
4 5											0 H
6				1							UF
7 8											
9											
10											
12											
SG								STATU	5		1

Channel 44:

Channel 48:

L 50 Ω enter Freq 5.2400		AC SENSE:INT	ALIGNAUTO #Avg Type: Pwr(RMS) Avg Hold: 68/100	03:31:44 PM Aug 17, 2011 TRACE 1 2 3 4 5 6 TYPE MMWWWW	
h	nput: RF PNO: Fast IFGain:Low	Atten: 30 dB	2.59	DETPSNNNN	A
) dB/div Ref 20.00	dBm		Mkr2	5.239 700 GHz 1.518 dBm	Auto Tui
o.0		2			Center Fre
	nilledown i man ing a rushinat	ערייזע אוויישער אייער אייער אייעראייעראייעראייעראייער	radial warding with the function of the states	And a state of the	
				Martin	
				11-11-144444Anta	
0.0					5.227500000 G
0.0					
D.0 D.0					Stop Fr 5.252500000 G
enter 5.24000 GHz Res BW 1.0 MHz	#VE	3W 3.0 MHz	#Sweep	Span 25.00 MHz 500 ms (1001 pts)	
KR MODE TRC SCL	×		FUNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> M
1 N 1 f 2 N 2 f	5.246 875 GHz 5.239 700 GHz	7.911 dBm 1.518 dBm			
3					Freq Offs
5 5 7					0
9 S					
0					
1					
1 2					



📕 Agilent Spectrum Analyzer -	Swept SA				
X/L 50Ω		AC SENSE:INT	ALIGN AUTO	03:37:34 PM Aug 17, 2011	Frequency
Center Freq 5.2600	100000 GHz 1put: RF PNO: Fast IFGain:Lov		#Avg Type: Pwr(RMS) Avg Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE MMWWWW DET P S N N N N	
0 dB/div Ref 20.00	dBm		Mkr1 ∜	5.253 175 GHz 8.085 dBm	Auto Tur
og		. 2			
10.0	a shall mar with the frage	1/14	AND	N	Center Fr
1.00				A Constant of the second of th	5.26000000 G
0.0	-			Mr. Mu	
D.0 Minute Way				The state of the state of the	
0.0				וערישיי	Start Fr
22122					5.247500000 0
0.0					
0.0					
0.0					Stop Fi
0.0					5.272500000 0
enter 5.26000 GHz				Span 25.00 MHz	CF St
Res BW 1.0 MHz	#V	BW 3.0 MHz	#Sweep \$	500 ms (1001 pts)	2.500000 N
(R MODE TRC SCL	×	Y	UNCTION FUNCTION WIDTH	FUNCTION VALUE	Auto M
1 N 1 f	5.253 175 GHz	8.085 dBm			
2 N 2 f 3	5.260 250 GHz	2.242 dBm			
4					Freq Off
5					0
6					
8					
9					
1					
2					
G			STATUS		9
٥			STATUS		

Channel 52:

Channel 60:

Marc         SENSE:INT         ALIGNAUTO         D338:37FM Aug 17,2011           Center Freq 5.300000000 GHz         Trig: Free Run IFGain:Low         Trig: Free Run Atten: 30 dB         #Avg Type: Pwr(RMS) Avg Hold: 88/100         Trace [123456 TYPERMAWWWWW Mer PSNNN           10 dB/div         Pef 20 00 dBm         2.142 dBm	Frequency
Mkr2 5.299 700 GHz	
	Auto Tun
10 dB/div Ref 20.00 dBm 2.142 dBm 100 100 100 100 100 100 100 100 100 100	
10.0	Center Fre
	5.30000000 GH
	Start Fro
0.0	5.287500000 G
40.0	
50.0	Stop Fre
60.0	5.312500000 G
	0.012000000 01
Center 5.30000 GHz Span 25.00 MHz	CF Ste
Res BW 1.0 MHz #VBW 3.0 MHz #Sweep 500 ms (1001 pts)	2.500000 MI
	Auto M
1 N 1 f 5.293 475 GHz 8.192 dBm 2 N 2 f 5.299 700 GHz 2.142 dBm	
3	Freq Offs
5	01
6 7	
9	
10 10	
11 12 12 12 12 12 12 12 12 12 12 12 12 1	
SG STATUS	



D Ag	ilent S	Spect	rum A	nalyzer -	Swept S	A						2				
₩ Cer	L nter	Fre	50Ω q5		00000			AC		SE:INT		Type: Pw		TRAC	M Aug 17, 2011 E 1 2 3 4 5 6 PE M M W M M M	Frequency
10 d	B/div	,	Ref	20.00	dBm		0: Fast ← ain:Low		: Free l en: 30 c		Avgir	101d: 75/10		5.320 1	75 GHz 39 dBm	Auto Tune
Log 10.0 0.00 -10.0			M	Haran	aqunta,	jii yalida	national states	1 Caminian	Winnich	2	1. Nakristovski	WWW.MAN	and the second	College	Martin Martin	Center Freq 5.320000000 GHz
-40.0				Harris										ų	Wide Pride allo	Start Freq 5.307500000 GHz
-50.0 -60.0 -70.0																<b>Stop Freq</b> 5.332500000 GHz
#Re	s Bl	N 1	.0 M	GHz Hz			#VB	N 3.0 I	MHz		INOTION			500 ms (	5.00 MHz 1001 pts)	CF Step 2.500000 MHz
MKH 1 2 3	N N N	1 2	f f			1 <u>6 775</u> 20 175			70 dB 39 dB	m	JNCTION	FUNCTION	WIDTH	FUNCTI	ON VALUE	<u>Auto</u> Man
4 5 6 7 8 9																Freq Offset 0 Hz
9 10 11 12 MSG													STATUS			

### Channel 64:

### Channel 100:

D Agi	ilent S	ipect		Analyzer -	Swept SA									
<mark>⊯</mark> Cen	ter	Fre	50 s 9 <b>q</b>	5.5000	00000		AC		BE:INT		ALIGN AUT	VIS) TF	9PM Aug 17, 2011 RACE 1 2 3 4 5 6	Frequency
				In	put: RF	PNO: Fast IFGain:Lov		ig: Free tten: 30 d		AVgjF	lold: 74/100	_	DETPSNNNN	Auto Tuno
10 di	Mkr2 5.498 200 GHz 0 dB/div Ref 20.00 dBm 200 000 100 100 100 100 100 100													
Log 10.0				20100	The state of the	- 1 Mail II. 194 B		2		11 mil N d	<u>\</u> 1			Center Freq
				1000000	River and Alte	a charult and		a fan were start fan de start fan	in a state of the	THE PROPERTY OF A	alaiki eeskii oo aa aha	A CONTRACTOR OF STREET		5.50000000 GHz
-10.0 -20.0	Laura 19.44	he why	<b>F</b>	р <mark>ина</mark> П								<u>ੇ</u> ਅ	Margaret	
-20.0	· · · ·													Start Freq
-40.0						_								5.487500000 GHz
-50.0			+			_								
-60.0			+			-							-	Stop Freq
-70.0													<u>.</u>	5.512500000 GHz
Cen #Re				0 GHz /IHz		#V	BW 3.0	MHz			#Swee		25.00 MHz (1001 pts)	CF Step
MKR	MODE	TRC	SCL		×			Y	FL	INCTION	FUNCTION WID		TION VALUE	2.500000 MHz Auto Man
1	NN	1 2	f			175 GHz 200 GHz		).675 dB 5.334 dB				_		
3		_		0					5.50					Freq Offset
5		_					-							0 Hz
7		_												
9 10														
11														
MSG	_										STA	тиз		



			Chum				
D Agilent Spect	trum Analyzer -	Swept SA					
ovu ⊥ Center Fre		000000 GHz	AC SENSE	#Avg	ALIGNAUTO Fype: Pwr(RMS) old: 61/100	03:41:20 PM Aug 17, 20 TRACE 1 2 3 4 5 TYPE MMWWMA	6 Frequency
	Ir	nput: RF PNO: Fast IFGain:Lov				DETPSNNN	
10 dB/div	Ref 20.00	dBm			Mkr2	5.599 925 GH 4.005 dBr	ZII
10.0		Fridenthuker with a station of	2		u - Muzius a dol -		Center Fre
0.00	11	Jilli Trousen Veta mata 19.2 Jar	UL- ALTA BEIRT D' YRDUR LLEAD DE R	<u>ፈመድምስ አይት</u> ለተስ ጨታጭል	all and a second and the form	And a start of the	- 5.60000000 GH
0.00 10.0 Canely 20.0 Hill 100	AN TOWN					Print and a start	чс W1
30.0							Start Fre
40.0	_						5.587500000 GH
50.0	-						
50.0							- Stop Fre 5.612500000 GH
70.0							3.512500000 Gr
enter 5.6 Res BW 1		#V	BW 3.0 MHz		#Sweep \$	Span 25.00 MH 500 ms (1001 pts	
IKR MODE TIRO		X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	Auto Ma
1 N 1 2 N 2	f f	5.597 325 GHz 5.599 925 GHz	10.413 dBm 4.005 dBm				
3 4			í				Freq Offs
5							01
7 8							-
9							
11							1
ISG					STATUS		

Channel 120:

Channel 140:

L 50 Ω		AC SENSE:INT	ALIGN AUTO	03:42:22 PM Aug 17, 2011	Frequency
enter Freg 5.700	000000 GHz Input: RF PNO: Fast IFGain:Low		#Avg Type: Pwr(RMS) Avg Hold: 93/100	TRACE 123456 TYPE MMWWWW DET P SNNNN	
) dB/div Ref 20.00	dBm		Mkr2	5.700 100 GHz 5.134 dBm	Auto Tu
<b>29</b>	<u>\</u> 1	2			Contor Er
00	and the second second second	where we want the second state of the second s	Aurolumman Jain States and a strategy with the	and the second s	Center Fr 5.700000000 G
				Martin all Martin and And	0.700000000
D.O HAMMAN				T Martine Way have	
0.0					Start Fr
					5.687500000 G
).0					
1.0					Stop Fr
10					5.712500000 G
1.0					
				Span 25.00 MHz	CER
	#V	BW 3.0 MHz	#Sweep	Span 25.00 MHz 500 ms (1001 pts)	CF St
Res BW 1.0 MHz	X	Y	#Sweep		CF St 2.500000 M
Res BW 1.0 MHz	× 5.693 625 GHz	Y 10.393 dBm		500 ms (1001 pts)	CF St 2.500000 M
Res BW 1.0 MHz R MODE TRC SCL N 1 f 2 N 2 f	X	Y		500 ms (1001 pts)	CF St 2.500000 M <u>Auto</u> M
No         1.0         MHz           N         1         f           N         2         f           3         4         4	× 5.693 625 GHz	Y 10.393 dBm		500 ms (1001 pts)	CF St 2.500000 M Auto M Freq Offs
Res BW 1.0 MHz           Imode Trop Scl           Imode Trop Scl	× 5.693 625 GHz	Y 10.393 dBm		500 ms (1001 pts)	CF St 2.500000 M Auto M Freq Offs
Res         BW         1.0         MHz           I         N         1         f           1         N         1         f           2         N         2         f           3         -         -           4         -         -           5         -         -           6         -         -           7         -         -           3         -         -	× 5.693 625 GHz	Y 10.393 dBm		500 ms (1001 pts)	CF St 2.500000 M <u>Auto</u> M Freq Offs
	× 5.693 625 GHz	Y 10.393 dBm		500 ms (1001 pts)	CF St 2.500000 M Auto M Freq Offs
Res         BW         1.0 MHz           I         N         1         f           2         N         2         f           3         4         4         4           5         -         -         -           6         -         -         -         -           7         -         -         -         -           8         -         -         -         -           9         -         -         -         -	× 5.693 625 GHz	Y 10.393 dBm		500 ms (1001 pts)	CF St 2.500000 M

Product	:	Plug-In PC.
Test Item	:	Peak Excursion
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmitter (802.11n-20BW 14.4Mbps)

## Chain A

Channel No.	Frequency (MHz)	Measurement Level (dB)	Required Limit (dB)	Result
36	5180	8.466	<13	Pass
44	5220	11.422	<13	Pass
48	5240	12.009	<13	Pass
52	5260	9.014	<13	Pass
60	5300	4.881	<13	Pass
64	5320	8.484	<13	Pass
100	5500	9.446	<13	Pass
120	5600	8.466	<13	Pass
140	5700	8.429	<13	Pass

Channel 36:

🗾 Agilent Spectrum Analyz	er - Swept SA				
X/L 50Ω Center Freq 5.18		AC SENSE:INT	ALIGNAUTO #Avg Type: Pwr(RMS)	03:43:35 PM Aug 17, 2011 TRACE 1 2 3 4 5 6 TYPE MMWWWW	Frequency
10 dB/div Ref 20.0	Input: RF PNO: Fast ↔ IFGain:Low	⊶ Trig: Free Run Atten: 30 dB	Avg Hold: 100/100	5.180 300 GHz 0.331 dBm	Auto Tune
10.0 0.00 -10.0	A I	2 10,10,10,10,10,10,10,10,10,10,10,10,10,1	nally run and an and a second	and the second second	Center Free 5.180000000 GH:
-20.0 -30.0				No N	<b>Start Fre</b> 5.167500000 GH
-50.0					<b>Stop Fre</b> 5.192500000 GH
Center 5.18000 GH #Res BW 1.0 MHz MKR MODE TRO SCL		N 3.0 MHz	#Sweep 5	Span 25.00 MHz 00 ms (1001 pts) FUNCTION VALUE	CF Ste 2.500000 MH Auto Ma
N         1         f           N         2         f           3         -         -           4         -         -           5         -         -           6         -         -           7         -         -           9         -         -           10         -         -           11         -         -           12         -         -	5.174 550 GHz 5.180 300 GHz	8.797 dBm 0.331 dBm			Freq Offse 0 ⊢
SG			STATUS		



Frequency	3:45:51 PM Aug 17, 2011			ENSE:INT	AC SE				50		L
	TRACE 123456 TYPE MMWWWW DET P SNNNN	ype: Pwr(RMS) Id: 37/100			Trig: Fre Atten: 30	GHz PNO: Fast IFGain:Low	000000 ( Input: RF	5.22	req	er Fr	nte
Auto Tu	220 200 GHz -2.681 dBm	Mkr2 5.					dBm	f 20.0	Re	div	1B/
Center F											ļ
5.220000000	A CONTRACTOR	provident and the second of the		2îh	All altre we had not	White the art of	and go the of the second	and			
04	Mar In		-					P.		لا المسلم الله .	í
Start Fi 5.207500000 0	HANNA HANNA									- All Parts	N
Stop Fi											
5.232500000											-
CF St 2.500000 M	Span 25.00 MHz 0 ms (1001 pts)			z	3W 3.0 MHz	#VB		0 GH: MHz		er 5.2 BW	
Auto N	FUNCTION VALUE	FUNCTION WIDTH	NCTION		Y 8.741 d	475 GHz	X 5 221 4			DE TR	MO
					-2.681 d	200 GHz		3			Ń
Freq Off 0											
				_						_	
									-		

Channel 44:

Channel 48:

Agilent Spectrum Analyz     XI L 50 Ω	zer - Swept SA	AC SENSE:INT	ALIGNAUTO	03:46:46 PM Aug 17, 2011	
Center Freq 5.24	IOOOOOOO GHz Input: RF PNO: Fast IFGain:Low		#Avg Type: Pwr(RMS Avg Hold: 32/100	TYPE MMWWWW DET P S N N N N	
	00 dBm		Mkr2	5.239 725 GHz -3.516 dBm	Auto Tune
10.0				wint.	Center Fre
10.00	and the second		and a start of the	and the second s	5.240000000 GH
20.0 30.0 40.0				MAN MAN	Start Fre 5.227500000 GH
50.0 60.0					Stop Fre
Center 5.24000 GH		BW 3.0 MHz	#Sweep	Span 25.00 MHz 500 ms (1001 pts)	CF Ste
1kr mode tro scl 1 N 1 f	× 5.238 750 GHz	Y 8.493 dBm	FUNCTION FUNCTION WIDTH		2.500000 MH Auto Ma
2 N 2 f 3 4 5 5 6	5.239 725 GHz	-3.516 dBm			Freq Offs 0 F
7 8 9					
10 11 12					
SG			STATUS	3	



Agilent Spectrum Analyze	r - Swept SA				
enter Freq 5.260	Input: RF PNO: Fast C	AC SENSE:INT	ALIGNAUTO #Avg Type: Pwr(RMS) Avg Hold: 60/100	03:47:33 PM Aug 17, 2011 TRACE 1 2 3 4 5 6 TYPE MMWWWW DET P S N N N N	Frequency
) dB/div Ref 20.01	IFGain:Low	Atten: 30 dB	Mkr2	5.260 075 GHz -1.142 dBm	Auto Tui
og		2 Minimum and a Martin	Lum Jum Present and a singer print of the second	N. W.	<b>Center Fr</b> 5.260000000 G
				Marine Marine Marine	<b>Start Fr</b> 5.247500000 G
0.0 0.0 0.0					Stop Fr 5.272500000 G
enter 5.26000 GHz Res BW 1.0 MHz	#VB	W 3.0 MHz		Span 25.00 MHz 500 ms (1001 pts)	CF St 2.500000 M
R MODE TRC SCL 1 N 1 f 2 N 2 f	× 5.263 525 GHz 5.260 075 GHz	7.872 dBm -1.142 dBm	UNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> N
3 4 5 5					Freq Off 0
7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9					
2			STATUS		

Channel 52:

Channel 60:

nter Freq 5.3000	00000 GHz put: RF PNO: Fast C IFGain:Low	AC SENSE:INT	ALIGNAUTO #Avg Type: Pwr(RMS) Avg Hold: 62/100	03:48:22 PM Aug 17, 2011 TRACE 1 2 3 4 5 6 TYPE MMWWWW DET P S N N N N	Frequency
B/div Ref 20.00		Atten: 30 dB	Mkr2 5	.299 575 GHz -1.638 dBm	Auto Tur
					Center Fro
0	Louis de monte la constante de	Lunin trisetting to black their	**************************************		5.300000000 G
				AND	Start Fr
) <mark></mark>				· ୩୩୩၂	5.287500000 G
					Stop Fr
					5.312500000 G
nter 5.30000 GHz es BW 1.0 MHz	#VB	W 3.0 MHz	#Sweep 5	Span 25.00 MHz 00 ms (1001 pts)	CF St 2.500000 M
MODE THE SCL N 1 f N 2 f	× 5.300 575 GHz 5.299 575 GHz	6.519 dBm -1.638 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> M
	5.299 575 GHZ	-1.038 dBm			Freq Offs



DAgilent Spectrum Analyzer	- Swept SA				
Center Freq 5.3200		AC SENSE:INT	ALIGNAUTO #Avg Type: Pwr(RMS)	03:49:26 PM Aug 17, 2011 TRACE 1 2 3 4 5 6 TYPE MMWWWW	Frequency
	nput: RF PNO: Fast ( IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Hold: 96/100	DETPSNNNN	Auto Tune
10 dB/div Ref 20.00	dBm		Mkr2	5.319 850 GHz -0.519 dBm	
Log 10.0	1	2			Center Freq
0.00	and a service of the and the service of the service	When the stand and the stand of	and the second		5.320000000 GHz
-10.0				The second second	
-20.0 -30.0				"NUM	Start Freq 5.307500000 GHz
-40.0					5.307500000 GH2
-50.0					Stop Freq
-70.0					5.332500000 GHz
Center 5.32000 GHz				Span 25.00 MHz	
#Res BW 1.0 MHz		W 3.0 MHz		500 ms (1001 pts)	2.500000 MHz
MKR MODE TRC SCL 1 N 1 f 2 N 2 f	× 5.313 650 GHz 5.319 850 GHz	7.965 dBm -0.519 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Man
3 4	5.3 19 850 GHZ	-0.519 dBm			Freq Offset
5					0 Hz
7 8	~				
9 10 11					
11 12					
MSG			STATUS		

Channel 64:

Channel 100:

💴 Agilent Spectrum Analyzer - S	Swept SA												
Center Freq 5.5000	00000 GHz put: RF PNO: Fast	AC SENSE:INT	ALIGNAUTO #Avg Type: Pwr(RMS) Avg Hold: 39/100	03:50:01 PM Aug 17, 2011 TRACE 1 2 3 4 5 6 TYPE MMWWWW	Frequency								
	IFGain:Low         Atten: 30 dB         Del/F SMMR           dB/div         Ref 20.00 dBm         0.531 dBm												
Log 10.0 0.00 -10.0	1 milinghi Mindensensensensensensensensensensensensense	And Marine Proved	ייייעלין בייזיקנגעוויינקאינגעייקנגעינגעייייטע	A MARCH MA	Center Free 5.500000000 GH:								
-20.0				TO AN ANALA	Start Free 5.487500000 GH								
-50.0					Stop Fre 5.512500000 GH								
Center 5.50000 GHz #Res BW 1.0 MHz MKR MODE TRC SCL	×	SW 3.0 MHz	#Sweep	Span 25.00 MHz 500 ms (1001 pts) FUNCTION VALUE	CF Ste 2.500000 MH Auto Ma								
1 N 1 f 2 N 2 f 3 4 5 6	5.494 550 GHz 5.500 375 GHz	9.977 dBm 0.531 dBm			Freq Offse 0 ⊢								
7 8 9 9 10 11 12 12 12 12 12 12 12 12 12 12 12 12													
MSG			STATUS		1								



D Ag	ilent S	pect		Analyzer -	Swept S	A										
⊯ Cer	ter	Fre	50 Ω	5.6000				AC	SE	NSE:INT			ALIGNAUTO ce: Pwr(RMS) I: 57/100	TRA	M Aug 17, 2011 CE 1 2 3 4 5 6 PE MM <del>W/M/W</del>	Frequency
	B/div		Ref	20.00	nput: RF dBm		NO: Fast Sain:Low		Atten: 30			ginor		5.599 S	50 GHz 76 dBm	Auto Tune
Log 10.0 0.00 -10.0				W	i. William	/1 /*	-	4/1/m-	morperola,	2 	Jul Part	<sup>, re</sup> levelow	al wing the	North Contraction		Center Freq 5.60000000 GHz
-40.0	norther a	μ.,	<b>M</b> .												WILL HARWIN	Start Freq 5.587500000 GHz
-50.0 -60.0 -70.0																<b>Stop Freq</b> 5.612500000 GHz
#Re	s BV	N 1	.0 N SCL	) GHz IHz	X				0 MHz		FUNCTIO	N FL	#Sweep	500 ms (	25.00 MHz (1001 pts) 0NVALUE	CF Step 2.500000 MHz <u>Auto</u> Man
1 3 4 5 6 7 8 9 10 11 12	N	1 2	f				0 GHz 0 GHz		9.342 di 0.876 di							Freq Offset 0 Hz
MSG													STATUS			

Channel 120:

#### Channel 140:

DAgilent Sp	ectrum Ar	nalyzer - Swept SA	-							
<mark>₩</mark> ∟ Center F	50 Ω Freq 5	.700000000		7			ALIGNAUTO : Pwr(RMS)	TRAC	M Aug 17, 2011 E 1 2 3 4 5 6 E M Manadata	Frequency
10 dB/div	Ref	Input: RF 20.00 dBm	PNO: Fast G IFGain:Low	Atten: 30 d		vgirioid. (		5.704 1	50 GHz 39 dBm	Auto Tune
Log 10.0 0.00 -10.0	Arm Mark	Particular data and an and an	hung-aptraction	ministerin dia 2	An and a faith of the faith	1 20110-00100-0	ni z Niglija (na v Al Laf	A REAL PROVIDENCE OF THE		Center Freq 5.700000000 GHz
-20.0 -30.0 -40.0									Mart Laborer	Start Freq 5.687500000 GHz
-50.0 -60.0 -70.0										Stop Freq 5.712500000 GHz
Center 5 #Res BW	1.0 M	Hz	# <b>VB</b>	W 3.0 MHz 9.539 dBi	FUNCTIO		#Sweep	500 ms (	5.00 MHz 1001 pts) NVALUE	CF Step 2.500000 MHz <u>Auto</u> Mar
2 N 3 4 5 6	2 f	5.699	700 GHz	1.110 dBi						Freq Offset 0 Hz
7 8 9 10 11 12										
MSG							STATUS			1

Channel No.	Frequency (MHz)	Measurement Level (dB)	Required Limit (dB)	Result
36	5180	7.110	<13	Pass
44	5220	9.011	<13	Pass
48	5240	9.034	<13	Pass
52	5260	10.412	<13	Pass
60	5300	8.241	<13	Pass
64	5320	8.839	<13	Pass
100	5500	8.603	<13	Pass
120	5600	10.921	<13	Pass
140	5700	10.469	<13	Pass

# Chain B

### Channel 36:

💴 Agilent Spectrum /								
🗶 ୮ ରେ ଜ Center Frea	5.180000000 G	Hz AC	SENSE:INT	#Avg Type	ALIGNAUTO : Pwr(RMS)	TRACE	Aug 17, 2011	Frequency
	Input: RF P	IO: East Con T	rig: Free Run tten: 30 dB	Avg Hold:		DET	50 GHz	Auto Tune
10.0 0.00 -10.0	20.00 aDm	T-Ju-Lighturnton-		Fredra-uphen-prist		-		<b>Center Free</b> 5.180000000 GH:
-20.0 -30.0 -40.0							A CONTRACTOR	Start Free 5.167500000 GH
-50.0								<b>Stop Fre</b> 5.192500000 GH
Center 5.1800 #Res BW 1.0 N MKR MODE TRC SCL		#VBW 3.0			#Sweep 5			<b>CF Ste</b> 2.500000 M⊢ <u>Auto</u> Ma
2 N 2 f 3 4 5 6	5.179 85		2.383 dBm					Freq Offse 0 H
7 8 9 10 11 12								
/SG	<del>9</del>				STATUS			



D Ag	ilent S			nalyzer -	Swept S	A										
الا Cer	L nter		50 Ω	5.2200				AC		NSE:INT			ALIGNAUTO be: Pwr(RMS) I: 100/100	TRA	MAug 17, 2011 CE 1 2 3 4 5 6 PE MMWWWW	Frequency
10 d	B/div		Ref	20.00	dBm		0: Fast ain:Low	•••	Trig: Free Atten: 30		AV	ginoic		5.220 <sup>-</sup>	150 GHz	Auto Tune
Log 10.0 0.00 -10.0			C. And			int reaction of the	harrytanit.	A.A.P	ant and a second se	2	1 ;iijmr	L.	inn Jour Hard			Center Freq 5.220000000 GHz
-20.0 -30.0 -40.0	ally"	A.													Wildman Martin	Start Freq 5.207500000 GHz
-50.0 -60.0 -70.0																<b>Stop Freq</b> 5.232500000 GHz
#Re	nter : s B\ MODE	N 1.	.0 IV	) GHz IHz	×		#VE	SW 3	.0 MHz	_	FUNCTION	FL	#Sweep	500 ms	25.00 MHz (1001 pts)	CF Step 2.500000 MHz Auto Man
1 2 3 4 5 6 7 8 9 10 11 12	N	1	f			22 350			<u>9.838 d</u> 0.827 d							Freq Offset 0 Hz
MSG													STATUS			

Channel 44:

Channel 48:

M Ag	ilent S	Spect		Analyzer	- Swep	t SA									
⊯ Cer	L nter	Fre	50 ⊆ €q	5.240				AC	ig: Free	JSE:INT		ALIGN AUTO Type: Pwr(RM fold: 45/100	IS) TRA	PM Aug 17, 2011 ACE 1 2 3 4 5 6 YPE MMWWWW	Frequency
	B/div	,	Ref	20.00	Input: F dBn	IFO	NO: Fast Gain:Low		ten: 30		Avgir		1 5.245	700 GHz 700 dBm	Auto Tune
Log 10.0 0.00 -10.0			and the second second	No and a start of the start of	in with a	₩₩₩₩	and all fourth	n Wirder Wieser	and all the second s			1 Networkshire			Center Freq 5.240000000 GHz
-20.0 -30.0 -40.0	AUA	MM	<b>h</b> ui											and the state of t	Start Freq 5.227500000 GHz
-50.0 -60.0 -70.0															<b>Stop Freq</b> 5.252500000 GHz
#Re MKR	NODE	W 1	.0 P	0 GHz /IHz	5.	× 245 70	0 GHz		Y .750 dE	3m	JNCTION	#Sweep	500 ms	25.00 MHz (1001 pts) ION VALUE	CF Step 2.500000 MHz <u>Auto</u> Man
2 3 4 5 6 7 8 9	N	2	t		5.	240 37	5 GHz	-1	.284 dE	3m					Freq Offset 0 Hz
10 11 12 MSG												STAT	US		



L 50 Ω			41 X (04 1 4 4 1 100 00)		
enter Freq 5.2	Input: RF PNO: Fast		ALIGNAUTO #Avg Type: Pwr(RMS) Avg Hold: 43/100	04:17:46 PM Aug 17, 2011 TRACE 1 2 3 4 5 6 TYPE MMWWWW DET P S N N N N	Frequency
	IFGain:Low	Atten: 30 dB	Mkr1 {	5.266 675 GHz	Auto Tur
dB/div Ref 20.	.00 dBm		<b>_</b>	9.369 dBm	
0.0		2	and the second s		Center Fr
.00 00	angenerate a frankriker allenter allenter allenter	-when the first of the second of the	margette Mathematic Reputer and	New York	5.26000000 G
0.0				- North -	
1.0				"White	
				- William	Start Fr
0.0					5.247500000 0
0.0					Stop Fr
0.0					5.272500000 0
enter 5.26000 GI	7			Span 25.00 MHz	-
	224-234		#Ourson 6		CF St
Res BW 1.0 MHz	#V	BW 3.0 MHz		600 ms (1001 pts)	2.500000 N
Res BW 1.0 MHz	#V	Y F	#Sweep 5	600 ms (1001 pts)	2.500000 N
Res BW 1.0 MHz	#V			600 ms (1001 pts)	2.500000 N
Res BW 1.0 MHz R MODE TRC SCL N 1 f N 2 f	#V	Y 9.369 dBm		600 ms (1001 pts)	2.500000 M <u>Auto</u> M
Res         BW         1.0 MHz           R         MODE         TRC         SCL           N         1         f           2         N         2         f           3         -         -         -           4         -         -         -           5         -         -         -	#V	Y 9.369 dBm		600 ms (1001 pts)	2.500000 M Auto M Freq Offs
Res BW 1.0 MHz           Imode TRG SCL           N         1           P         7	#V	Y 9.369 dBm		600 ms (1001 pts)	2.500000 M Auto M Freq Offs
Res BW 1.0 MHz           R MODE         TRC         SCL           N         1         f           2         N         2         f           3         -         f         -           5         -         -         -           6         -         -         -           7         -         -         -           3         -         -         -	#V	Y 9.369 dBm		600 ms (1001 pts)	2.500000 M Auto M Freq Offs
Res         BW         1.0         MHz           If         MODE         IfIG         SCL         I           I         N         1         f         I           2         N         2         f         I           3         -         -         -         -           4         -         -         -         -           5         -         -         -         -           6         -         -         -         -           7         -         -         -         -           9         -         -         -         -	#V	Y 9.369 dBm		600 ms (1001 pts)	2.500000 M Auto M Freq Offs
Res BW 1.0 MHz           Mode         Trc         Scl           N         1         f           2         N         2         f           3         -         f           4         -         -           5         -         -           6         -         -           7         -         -           9         -         -	#V	Y 9.369 dBm		600 ms (1001 pts)	CF St 2.500000 M Muto N Freq Offs 0

Channel 52:

Channel 60:

💴 Agilent Spectrum Analyzer -	Swept SA				
⊠ ∟ <u>50 Ω</u> Center Freq 5.3000		AC SENSE:INT	ALIGNAUTO #Avg Type: Pwr(RMS) Avg Hold: 90/100	TYPE MMWWWWW	Frequency
10 dB/div Ref 20.00	IFGain:Low	Atten: 30 dB		5.300 200 GHz 1.551 dBm	Auto Tune
10.0 0.00 -10.0	U. 	2 UIL	 	10 I	Center Freq 5.300000000 GHz
-20.0 -30.0 -40.0				A CONTRACTOR	Start Freq 5.287500000 GHz
-50.0					Stop Fred 5.312500000 GHz
Center 5.30000 GHz #Res BW 1.0 MHz	1000 A. (1990)	W 3.0 MHz	-	Span 25.00 MHz 500 ms (1001 pts)	CF Step 2.500000 MH
MKR MODE TRC SCL 1 N 1 f 2 N 2 f	5.301 375 GHz	9.792 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Mar
3 4 5 6	5.300 200 GHz	1.551 dBm			Freq Offse 0 Ha
7 8 9 10 11					
12 MSG			STATUS		



D Agiler	it Spec	trum	Analyzer - Sw	ept SA								
w⊥ Cente	er Fro	50 s eq	5.320000						ALIGNAUTO Type: Pwr(RMS old: 56/100	TRAC	M Aug 17, 2011 E 1 2 3 4 5 6 PE MM <del>WMM</del>	Frequency
10 dB/c	div	Ref	Input 20.00 dE	IFG	10: Fast Gain:Low	Atten: 30				5.319 6	00 GHz 34 dBm	Auto Tune
10.0 - 0.00 - -10.0 -			And the second second	wyłukt/inpurti	A BALLAND	- And and a start of the	2 	altering and all all and a	1	Silver Britter		Center Freq 5.320000000 GHz
ہو -20.0 -30.0 <b>41</b> -40.0 —	WYY W											Start Freq 5.307500000 GHz
-50.0 — -60.0 — -70.0 —												<b>Stop Freq</b> 5.332500000 GHz
Cente #Res   MX8 M0		1.0 P		×	#VE	3W 3.0 MHz		FUNCTION	#Sweep	500 ms (	5.00 MHz 1001 pts)	
1 N 2 N 3 4 5 6	1	f		5.323 800 5.319 600		<u>9.773 d</u> 0.834 d						Freq Offset 0 Hz
7 8 9 10 11 12												
MSG									STATUS	3		

Channel 64:

Channel 100:

	Analyzer - Swept SA					
Center Freq	5.500000000 G		SENSE:INT	ALIGNAUTO #Avg Type: Pwr(RMS Avg Hold: 46/100	04:22:06 PM Aug 17, 2011 TRACE 1 2 3 4 5 6 TYPE MMWWWM	Frequency
			en: 30 dB		5.500 250 GHz	Auto Tur
0 dB/div Re	f 20.00 dBm				1.506 dBm	
10.0	add Milling Mary	Angeline Walter Walterstreet			Carlos A	Center Fre
0.00	all a second sec		Alt Halley al 11 km			5.50000000 G
					No. of the second se	Start Fr
10.0						5.487500000 G
0.0						Stop Fr
0.0						5.512500000 G
enter 5.5000 Res BW 1.0		#VBW 3.0 I	MHz	#Sweep	Span 25.00 MHz 500 ms (1001 pts)	
Krimode Tro Sci 1 N 1 f			09 dBm	JNCTION FUNCTION WIDTH	FUNCTION VALUE	Auto N
2 N 2 f	5.505 72 5.500 25		06 dBm			
3						Freq Offs
5 6						0
8						
9 0						
1			1			
G	·			STATUS	:	1



		pecti		Analyzer -	Swept S/	A							<u></u>		
	L Iter	Fre	50 Ω	5.6000				AC	sel	JSE:INT		ALIGNAUTO Type: Pwr(RMS) Iold: 36/100	TRAG	M Aug 17, 2011 CE 1 2 3 4 5 6 PE MMWWWW	Frequency
	B/div		Ref	20.00	nput: RF dBm		): Fast in:Low		atten: 30				5.607 C	000 GHz 14 dBm	Auto Tune
Log 10.0 0.00 -10.0			4	ANT ANT ANT		<b>6.</b> 01/1-51/10	JANNI I		ni h <b>it</b> iyyyyk	2 minut	*****************	1 ידרייייייייייייייייייייייייייייייייייי	all a		Center Freq 5.60000000 GHz
-20.0 -30.0 -40.0	<b>A</b>	γ <b>i</b> η <sup>4</sup>												Walth Land and	Start Freq 5.587500000 GHz
-50.0 -60.0 -70.0					~										<b>Stop Freq</b> 5.612500000 GHz
#Re	s BV	N 1.	.0 N	0 GHz /IHz			#VE	3W 3.0	0 MHz		UNCTION		500 ms (	25.00 MHz (1001 pts)	CF Step 2.500000 MHz Auto Man
1	MODE	1	f	_		7 000			0.414 dE	3m	UNCTION	FUNCTION WIDTH	FUNCTI	UN VALUE	<u>Auto</u> Man
2 3 4 5 6 7 8	N	2	f		5.60	0 100	GHZ		).507 dE	sm					Freq Offset 0 Hz
9 10 11 12 MSG												STATUS			

Channel 120:

### Channel 140:

D Agilent	Spect	rum	Analyzer - Swept S	SA						
Center	r Fre	50 s 9 <b>q</b>	5.70000000	00 GHz			ALIGN AUTO g Type: Pwr(RMS	S) TRAC	M Aug 17, 2011	Frequency
Input: RF         PN0: Fast → IFGain:Low         Trig: Free Run AvgiHold: 54/100         Type MMWWWW Der P SNNN           10 dB/div         Ref 20.00 dBm         Mkr1 5.702 425 GHz 10.499 dBm										Auto Tune
Log 10.0		W	and the second second	Langer and the second s	WWW WWWWWWWWWWWWWWWWWWWWWWWWWWWW	Al Contraction of the second	Numin and a stand			Center Freq 5.700000000 GHz
-20.0 -30.0		<u> </u>							North Contraction	Start Freq 5.687500000 GHz
-50.0 -60.0 -70.0										<b>Stop Freq</b> 5.712500000 GHz
Center 5.70000 GHz         Span 25.00 MHz           #Res BW 1.0 MHz         #VBW 3.0 MHz         #Sweep 500 ms (1001 pts)           IMMER Model TRG ISCU         X         Y         FUNCTION WIDTH         FUNCTION WIDTH										
1 N 2 N	1	f	5.7	02 425 GHz 99 875 GHz	10.499 dB 0.030 dB	m	TORCHOR WIDT			
3 4 5 6										Freq Offset 0 Hz
7 8 9 10 11										
12 MSG							STATU	s		<u> </u>