

Product Name	Notebook Computer
Model No.	: S21IIX(X=0-9,A-Z,or Blank);
	S21IXY(X=0-9, A-Z, or Blank; Y=0-9,A-Z,or Blank);
	AVERATEC ES-200; 2700 Series

Applicant	:	ELITEGROUP COMPUTER SYSTEMS CO., LTD
Address	:	No.239,Sec.2,Ti Ding Blvd., Taipei, Taiwan

Date of Receipt	: 2008/08/12
Report No.	: 088203S
Issued Date	: 2008/08/25
Version	:V0.4-Draft

The test results relate only to the samples tested.

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		DFS Test Report Issued Date : 2008/08/25 Report No. : 088203S GuieTek
Product Name	:	Notebook Computer
Applicant	:	ELITEGROUP COMPUTER SYSTEMS CO., LTD
Address	:	No.239,Sec.2,Ti Ding Blvd., Taipei, Taiwan
Manufacturer	:	UNIWILL COMPUTER (SIP) CO. LTD
Model No.	:	S21IIX(X=0-9,A-Z,or Blank);
		S21IXY(X=0-9, A-Z, or Blank; Y=0-9,A-Z,or Blank);
		AVERATEC ES-200; 2700 Series
Trade Name	:	UNIWILL, AVERATEC, ECS, ELITEGROUP
Applicable Standard	:	Dynamic Frequency Selection (DFS)
Test Result	:	Pass
Description for Test	:	Wireless module: Intel® / WiFi Link 5300

Test Item	Test Result	
Dynamic Frequency Selection (DFS)	🛛 Pass	🗌 Fail

Roy Vang 0

(Roy Wang / Manager)

Steven Reng

(Steven Peng / Engineer)

Dynamic Frequency Selection (DFS) Test Result

15.407:

U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an E.I.R.P. of less than 500 mW.

U-NII devices operating in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems.

General Information

The UUT operates in the following bands:

- 1. 5250-5350 MHz
- 2. 5470-5725 MHz

The UUT is a Client Device that does not have radar detection capability and ad-hoc function. The highest gain antenna assembly utilized with the EUT has a maximum gain of 1.03 dBi in 5GHz frequency band. The 50-ohm Tx/Rx antenna port is connected to the test system to perform conducted tests. TPC is not required since the maximum EIRP is less than 500mW (27dBm).

The UUT utilizes 802.11a/b/g/n **IP based** architecture. Two nominal channel bandwidths, 20 MHz and 40MHz are implemented.

WLAN traffic is generated by streaming the video file TestFile.mp2 from the Master device to the Slave device in full motion video mode using the media player with the V2.61 Codec package

The master device is a Cisco Aironet 802.11a/g/n Access Point. The DFS software installed in the master device is Cisco IOS Releases 12.3(11) JA.

The UUT is a client device without radar detection, therefore the interference threshold level is not required.

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Test Equipment

Dynamic Frequency Selection (DFS) / SR-7

Instrument	Manufacturer	Type No.	Serial No	Cal. Date
Spectrum Analyzer	Rohde & Schwarz	FSP	100561	Jan, 21, 2008
Vector Signal Generator	Rohde & Schwarz	SUM 200A	102168	Jan., 08, 2008

Instrument	Manufacturer	Туре No.	Serial No
Splitter/Combiner (Qty: 2)	Mini-Circuits	ZAPD-50W 4.2-6.0 GHz	NN256400424
Splitter/Combiner (Qty: 2)	Mini-Circuits	ZA2PD-63-S+	SN049200828
ATT (Qty: 3)	Mini-Circuits	BW-S3W2 DC-18GHz	0025
Aironet Access Point	Cisco System	AP1252AG	FTX121090DP
Laptop PC	Dell	M65	28G9N1S
RF Cable (Qty: 4)	Schaffner		25494/6

Software	Manufacturer	Function
IOS Releases 12.3(11) JA	Cisco System	DFS Software
R&S K6 Pulse Sequencer	Rohde & Schwarz	Radar Signal Generation Software
Media Player Classic v6.4.8.6	UNICAST	



Limit

According to §15.407(h) and FCC 06-96 APPENDIX "COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE DEVICES OPERATING IN THE 5250-5350 MHz AND 5470-5725MHz BANDS INCORPORATING DYNAMIC FREQUENCY SELECTION".

Applicability of DFS requirements prior to use of a channel

	Operational Mode			
Requirement	Master	Client (with radar	Client (without	
		detection)	radar detection)	
Non-Occupancy Period	Yes	Yes	Yes	
DFS Detection Threshold	Yes	Yes	Not Required	
Channel Availability Check Time	Yes	Not Required	Not Required	
Uniform Spreading	Yes	Not Required	Not Required	
U-NII Detection	Yes	Yes	Not Required	
Bandwidth				

Applicability of DFS requirements during normal operation

	Operational Mode			
Requirement	Master	Client (with radar detection)	Client (without radar detection)	
DFS Detection Threshold	Yes	Yes	Not Required	
Channel Closing Transmission	Yes	Yes	Yes	
Time				
Channel Move Time	Yes	Yes	Yes	
U-NII Detection	Yes	Yes	Not required	
Bandwidth				

Interference Threshold value, Master or Client incorporating In-Service Monitoring

Maximum Transmit Power	Value (see note)	
≥200 milliwatt	-64 dBm	
< 200 milliwatt	-62 dBm	
Note 1. This is the level at the input of the receiver assuming a 0 dBi receive antenna		

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

DFS Response requirement values

Parameter	Value	
Non-Occupancy Period	30 Minutes	
Channel Availability Check Time	60 Seconds	
Channel Move Time	10 Seconds	
Channel Closing Transmission Time	200 milliseconds + approx. 60 milliseconds over remaining 10 seconds period (See Notes 1 and 2)	
Note1: The instant that the Channel Move Time and the Channel Closing Transmission]		

Note1: The instant that the Channel Move Time and the Channel Closing Transmission Time begins is as follows:

- For the short pulse radar test signals this instant is the end of the burst.
- For the frequency hopping radar test signal, this instant is the end of the last radar burst generated
- For the long pulse radar test signal this instant is the end of the 12 seconds period defining the radar transmission.

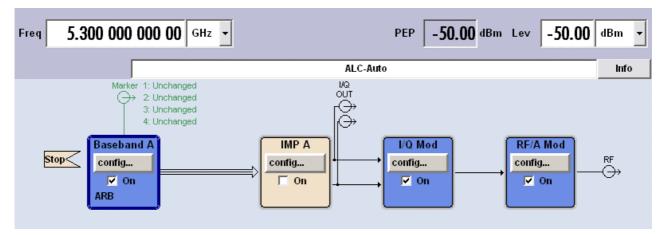
Note 2: The channel closing transmission time is comprised of 200 milliseconds starting at the beginning of the channel move time plus any additional intermittent control signals required facilitating channel changes (an aggregate of approximately 60 milliseconds) during the remainder of the 10 seconds period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Radar Type	Pulse Width (µsec)	PRI (μ sec)	Pulses	Minimum Percentage of Successful Detection	Minimum Trials
1	1	1428	18	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (r	adar types 1-4)			80%	120

Short Pulse Radar Test Waveforms

A minimum of 30 unique waveforms are required for each of the short pulse radar type 2 through 4. For short pulse radar type 1, then same waveform is used a minimum of 30 times. If more than 30 waveforms are used for short pulse radar type 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. The aggregate is the average of the percentage of successful detections of short pulse radar type 1-4.

FCC Radar Types (1 to 4) System Diagram



Used R&S SMU200A (Vector SG with one ARB)

B11: Base-band Generator with ARB and Digital Modulation

B106: Frequency range (100kHz to 6GHz)

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R&S K6 Pulse Sequencer (DFS-FCC File Create Options Help	.01)			
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	Author Rohde & So	hwarz	Versi	on.
V	Konde & Se	.1. waiz		
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Radar Type 5 - Trigger - 20	2 200000	0.00	Radar Type 3 - 18	Unchanged 🔻
alla Radar Type 5 - Trigger - 18 alla Radar Type 5 - Trigger - 16	3 200000	0.00	Radar Type 3 - 16	10.000000 MHz
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"Ils Radar Type 5 - Trigger - 12	5 200000	0.00		
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alla Radar Type 6 - 100 simulated	9 20000	0.00		Trigger mode
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Radar Type 5 - 18	14 200000	0.00	Radar Type 3 - 17	Segment
💊 Radar Type 5 - 16	15 200000	0.00	Radar Type 3 - 16	1
💊 Radar Type 5 - 14	16 200000	0.00		
🐂 Radar Type 5 - 12	17 200000	0.00	Radar Type 3 - 16	Apply
💊 Radar Type 5 - 10 🍡 Radar Type 5 - 8	18 200000	0.00	Radar Type 3 - 16 🗾	
= 📖 RF List	Remote multi segment file	Comment All 30 ran	dom patterns in a multi segment wav	eform 🗾
🐂 Type 6 Hopping				
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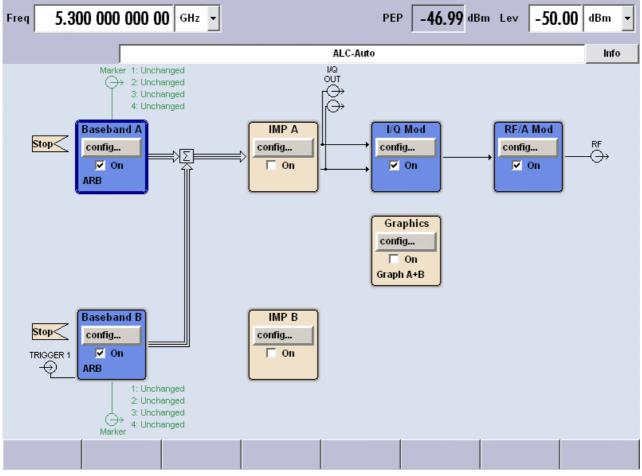
Used R&S K6 Pulse Sequencer Software to select the waveform parameters from the bounds of the signal type, system were random selection using uniform distribution.

Long Pulse Radar Test Signal

Radar Waveform	Bursts	Pulses Per Burst	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Minimum Percentage of Successful Detection	Minimum Trials
5	8-20	1-3	50-100	5-20	1000-2000	80%	30

The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the long pulse radar test signal. If more than 30 waveforms are used for the long pulse radar test signal, then each additional waveform must also be unique and not repeated from the previous waveforms.

FCC Radar Type 5 System Diagram



Used R&S SMU200A (Vector SG with Two ARB)

2*B11: Base-band Generator with ARB and Digital Modulation

2*B13: Base-band Main Module

B106: Frequency range (100kHz to 6GHz)



R&S K6 Pulse Sequencer (DFS-FCC.prj		
<u>File Create Options H</u> elp		
	Project FCC 15.407 / FCC-060-96A DFS Date Author Rohde & Schwarz Version Wulti segment Data Log	
	Mana Arburar Paranear Prog	
🖃 🛄 Pulse Library 🛁	Name Radar Type 5 - 8	
😑 🔔 Unmodulated		
🕀 🕂 FCC-Туре б		
🛄 Modulated		
🖻 🛄 Sequence Library	tem Samples CRF Sequence ARB clock rate	
Radar Type 5 - Trigger - 20 ماله	1 120000 0.00 Radar Type 5 - 1, Path A	
.alla Radar Type 5 - Trigger - 18	2 120000 0.00 Radar Type 5 - 1, Path A 3 120000 0.00 Radar Type 5 - 2, Path A	
ullu Radar Type 5 - Trigger - 16 سالا Radar Type 5 - Trigger - 14		
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Alla Radar Type 5 - Trigger - 8	7 120000 0.00 Radar Type 5 - 1, Path A	
ullu Radar Type 6 - 100 ullu Radar Type 6 - 100 simulated	8 120000 0.00 Radar Type 5 - 3, Path A Trigger mode	
Multi Segment Waveforms	SINGLE V	
Radar Type 1	Extended trigger mode	
Radar Type 2		
💊 Radar Type 3		
💊 Radar Type 4	Trigger source	
🐂 Radar Type 5 - 20		
💊 Radar Type 5 – 18 💊 Radar Type 5 – 16	Segment	
Radar Type 5 - 14		
💊 Radar Type 5 - 12	Apply	
Radar Type 5 - 10		
Radar Type 5 - 8		
- W RF List	Remote multi segment file Comment 8 random bursts in a multi segment waveform	
Type 6 Hopping		
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	MS name D: 🔻 RadarType5	
لتے ۔	Batok build Patk A 🔻	
4 <u>–</u>	Transfer complete.	

Used R&S K6 Pulse Sequencer Software to select the waveform parameters from the bounds of the signal type, system were random selection using uniform distribution.

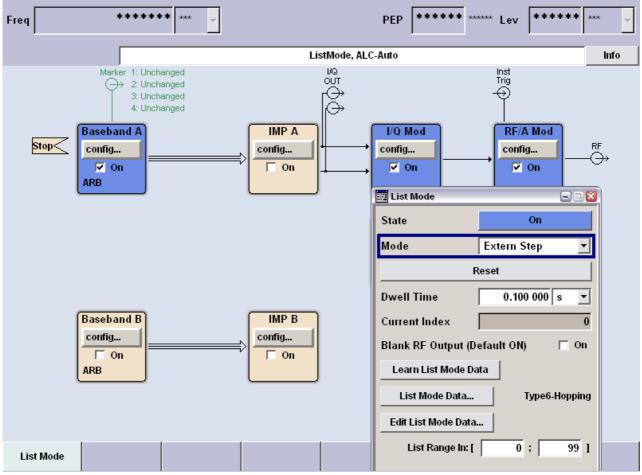


Frequency Hopping Radar Test Signal

Radar	Pulse	PRI	Hopping	Pulses	Hopping	Minimum	Minimum
Waveform	Width	(μ sec)	Sequence	Per Hop	Rate	Percentage	Trials
	(μ sec)		Length		(kHz)	of	
			(msec)			Successful	
						Detection	
6	1	333	300	9	.333	70%	30

For the frequency hopping radar type, the same burst parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence.

FCC Radar Types 6 System Diagram



Used R&S SMU200A (Vector SG with one ARB)

B11: Base-band Generator with ARB and Digital Modulation

B13: Base-band Main Module

B106: Frequency range (100kHz to 6GHz)



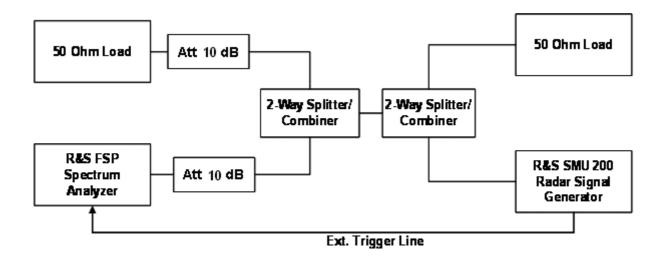
R&S K6 Pulse Sequencer (DFS-FCC.pr	-					
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🖃 🛄 Pulse Library 🔺	Name Type	6 Hopping				
 □ Unmodulated ● ↓_ FCC-Type 6 □ Modulated 		-				
🖃 🛄 Sequence Library	Eatry	Frequency [GHz]	Level [dBm]		4 1	Set length
alls Radar Type 5 - Trigger - 20 alls Radar Type 5 - Trigger - 18 alls Radar Type 5 - Trigger - 16 alls Radar Type 5 - Trigger - 14 alls Radar Type 5 - Trigger - 10 alls Radar Type 5 - Trigger - 10 alls Radar Type 6 - 100 alls Radar Type 6 - 100 alls Radar Type 6 - 100 alls Radar Type 1 Radar Type 1 Radar Type 2 Radar Type 4 Radar Type 5 - 20 Radar Type 5 - 10 Radar Type 5 - 10 Radar Type 5 - 10 Radar Type 5 - 10 Radar Type 5 - 12	1 2 3 4 5 6 7 7 8 9 10 11 11 12 13 14 15 16	5.347000 5.371000 5.396000 5.498000 5.702000 5.678000 5.368000 5.353000 5.655000 5.486000 5.486000 5.486000 5.299000 5.358000 5.512000 5.512000 5.340000	-63.00 -63.00		Dwell time 100.0 ms Value Frequency V Data mode Unique Rad V Max 5.250000 Max 5.724000 Step 0.001000	Fill list Import list Export list
Radar Type 5 - 10 Radar Type 5 - 8 Image: RF List Type 6 Hopping	Commeat Type 6	Frequency Hopping			۵ ۵	
🟵 🛄 Plugins	List file d:\Type	6-Hopping.lsw t transfer			Remote file	
a	<u>∏</u> <u>R</u> eset	Construction of the State	ument connected	•		

Used R&S Pulse K6 Sequencer Software to select the waveform parameters from the bounds of the signal type, system were random selection using uniform distribution.

Radar Waveform Calibration

The following equipment setup was used to calibrate the conducted radar waveform. A spectrum analyzer was used to establish the test signal level for each radar type. During this process there were replace 50ohm terminal from master and client device and no transmissions by either the master or client device. The spectrum analyzer was switched to the zero span (time domain) at the frequency of the radar waveform generator. Peak detection was utilized. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 1 MHz and 3 MHz.

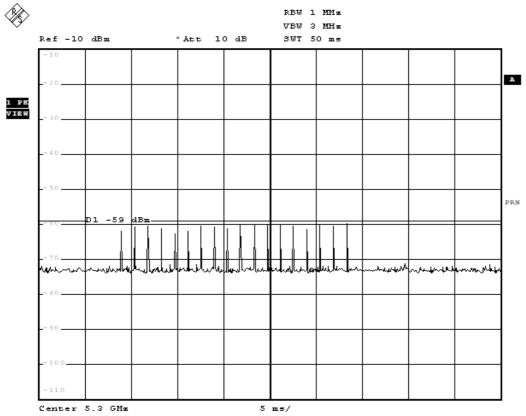
The signal generator amplitude was set so that the power level measured at the spectrum analyzer was -59 dBm due to the interference threshold level is not required.



Conducted Calibration Setup

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Radar Type 1 Calibration Plot



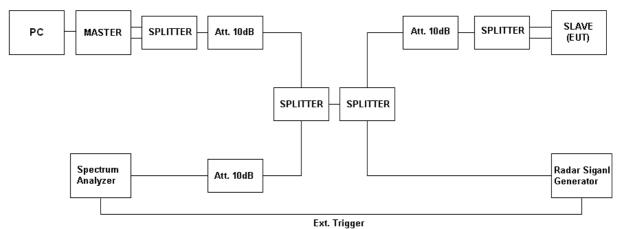
QuieTek

Test Procedure

A spectrum analyzer is used as a monitor to verify that the EUT has vacated the channel within the channel closing transmission time and channel move time after the detection and channel move.

The EUT is a WLAN device operating as client without radar interference detection function. Radar test signals are injected into the master device. This set-up also contains a WLAN device operating in master device. The EUT (client device) is associated with the master device.

Following is the test setup used to generate the radar waveforms and for all DFS tests described herein.



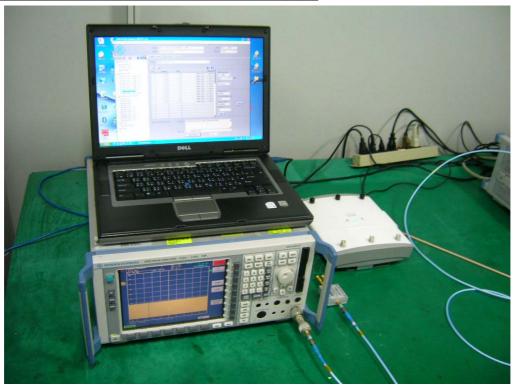


Full DFS Test Set-up Photo





DFS Set-up Photo: Master and Spectrum Analyzer





DFS Set-up Photo: Client and Radar Generator



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Channel Move Time and Channel Closing Transmission Time

These tests define how the following DFS parameters are verified during In-Service Monitoring; Channel Closing Transmission Time and Channel Move Time.

The steps below define the procedure to determine the above mentioned parameters when a radar burst with a level -59 dBm is generated on the operating channel of the U-NII device.

A U-NII device operating as a Client device will associate with the Master device at 5300MHz, 5500MHz for 20MHz channel bandwidth and 5310MHz, 5510MHz for 40 MHz channel bandwidth. Traffic data from the master device to the client device on the selected channel for the entire period of the test.

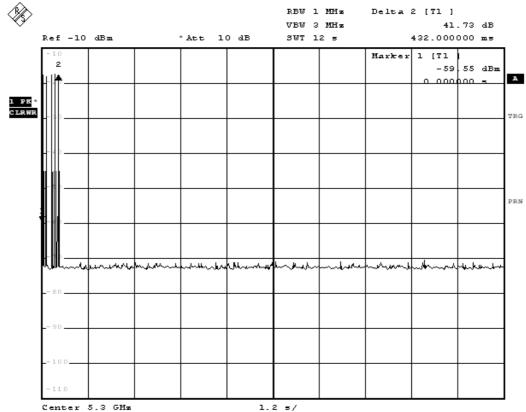
Observe the transmissions of the EUT at the end of the radar burst on the operating channel for duration greater than 10 seconds. Measure and record the transmissions from the spectrum analyzer during the observation time (Channel Move Time). The aggregate transmission closing time is measured in one of two ways:

The total time of all individual transmissions from the EUT that are observed starting 200ms at the end of the last radar waveform. This value is required to be less than 60ms.

Compare the channel move time and channel closing transmission time results to the limits defined in the DFS Response requirement values table.



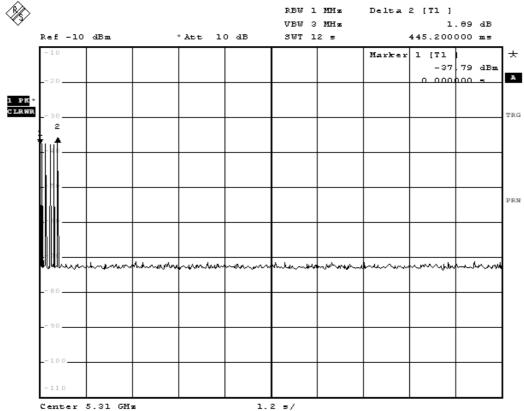
Channel Move Time for Radar Test Signal 1 at 5300MHz



Test Item	Limit	Results
Channel Move Time	10 Seconds	Pass



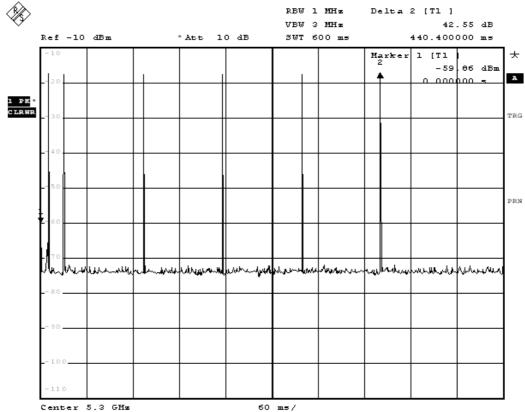
Channel Move Time for Radar Test Signal 1 at 5310MHz



Test Item	Limit	Results
Channel Move Time	10 Seconds	Pass



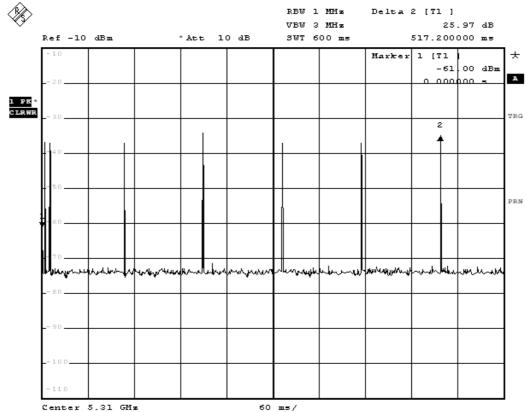
Channel Closing Transmission Time for Radar Test Signal 1 at 5300 MHz



Test Item	Limit	Results
Channel Closing Transmission	200 milliseconds + approx. 60	Pass
	milliseconds over remaining 10 seconds	
	period	



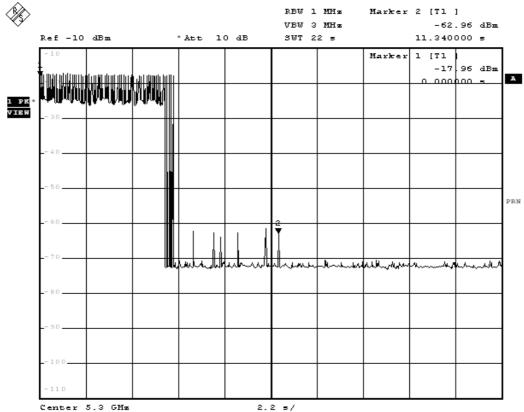
Channel Closing Transmission Time for Radar Test Signal 1 at 5310 MHz



Test Item	Limit	Results
Channel Closing Transmission	200 milliseconds + approx. 60	Pass
	milliseconds over remaining 10 seconds	
	period	



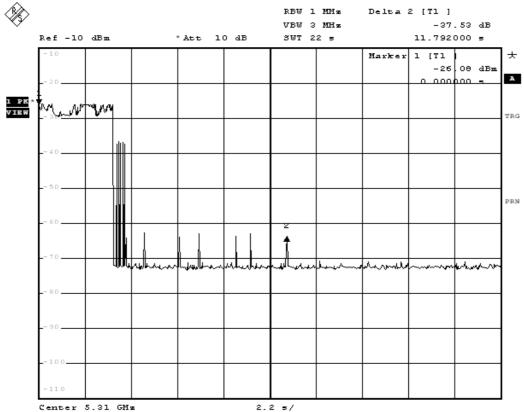
Channel Move Time for Radar Test Signal 5 at 5300MHz



Test Item	Limit	Results
Channel Move Time	10 Seconds	Pass

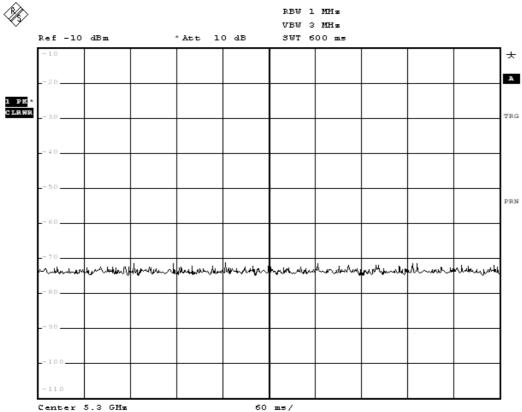


Channel Move Time for Radar Test Signal 5 at 5310MHz



Test Item	Limit	Results
Channel Move Time	10 Seconds	Pass

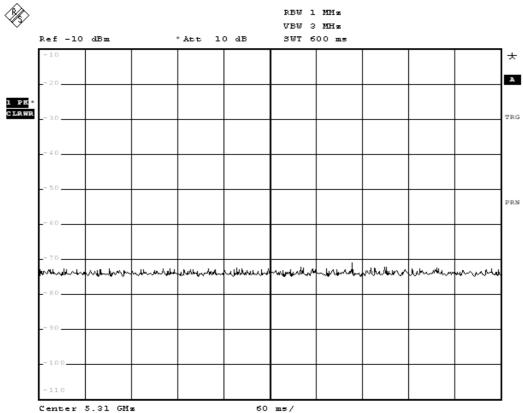
Channel Closing Transmission Time for Radar Test Signal 5 at 5300 MHz



Test Item	Limit	Results
Channel Closing Transmission	200 milliseconds + approx. 60	Pass
	milliseconds over remaining 10 seconds	
	period	



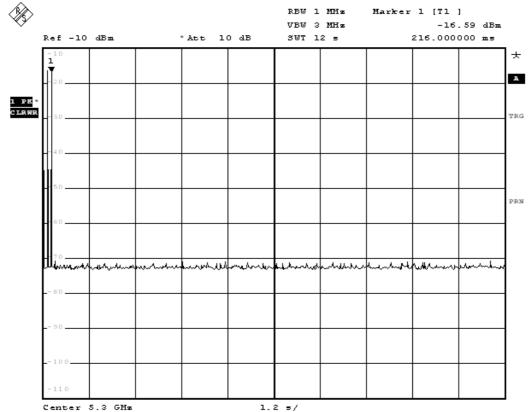
Channel Closing Transmission Time for Radar Test Signal 5 at 5310 MHz



Test Item	Limit	Results
Channel Closing Transmission	200 milliseconds + approx. 60	Pass
	milliseconds over remaining 10 seconds	
	period	



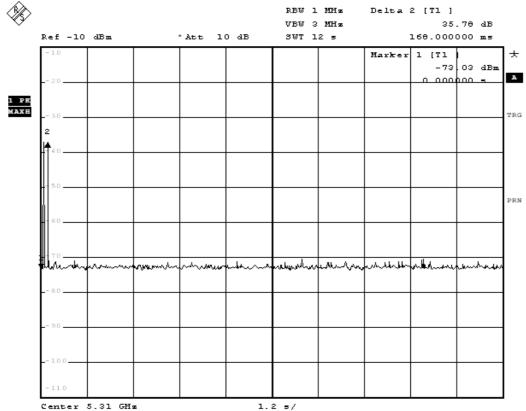
Channel Move Time for Radar Test Signal 6 at 5300MHz



Test Item	Limit	Results
Channel Move Time	10 Seconds	Pass

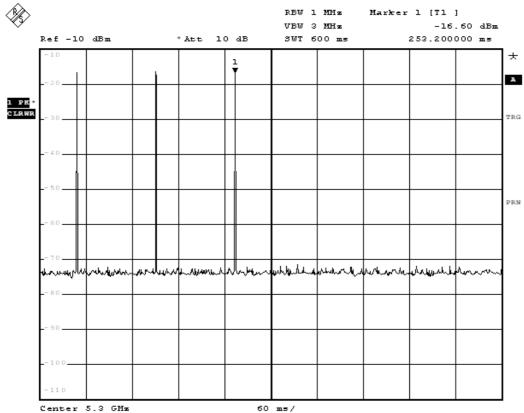


Channel Move Time for Radar Test Signal 6 at 5310MHz



Test Item	Limit	Results
Channel Move Time	10 Seconds	Pass

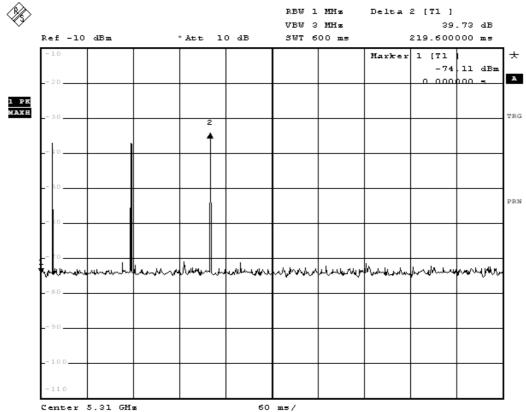
Channel Closing Transmission Time for Radar Test Signal 6 at 5300 MHz



Test Item	Limit	Results
Channel Closing Transmission	200 milliseconds + approx. 60	Pass
	milliseconds over remaining 10 seconds	
	period	



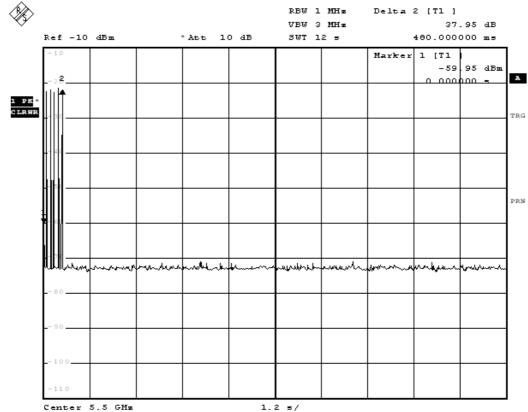
Channel Closing Transmission Time for Radar Test Signal 6 at 5310 MHz



Test Item	Limit	Results
Channel Closing Transmission	200 milliseconds + approx. 60	Pass
	milliseconds over remaining 10 seconds	
	period	



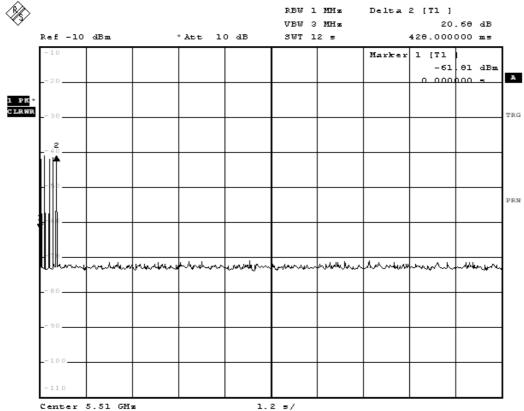
Channel Move Time for Radar Test Signal 1 at 5500MHz



Test Item	Limit	Results
Channel Move Time	10 Seconds	Pass



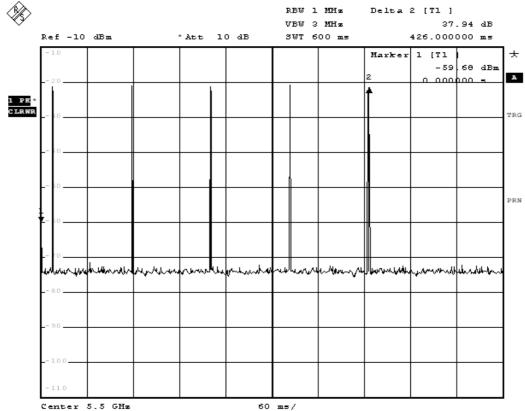
Channel Move Time for Radar Test Signal 1 at 5510MHz



Test Item	Limit	Results
Channel Move Time	10 Seconds	Pass



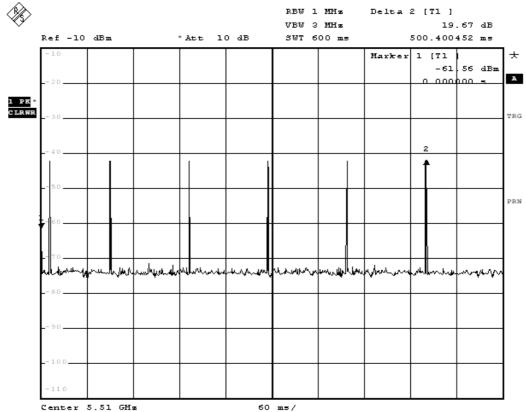
Channel Closing Transmission Time for Radar Test Signal 1 at 5500 MHz



Test Item	Limit	Results
Channel Closing Transmission	200 milliseconds + approx. 60	Pass
	milliseconds over remaining 10 seconds	
	period	



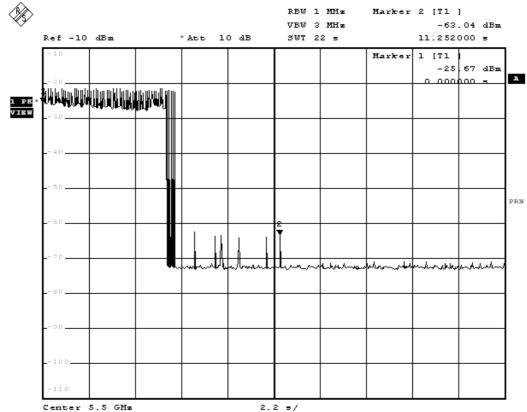
Channel Closing Transmission Time for Radar Test Signal 1 at 5510 MHz



Test Item	Limit	Results
Channel Closing Transmission	200 milliseconds + approx. 60	Pass
	milliseconds over remaining 10 seconds	
	period	



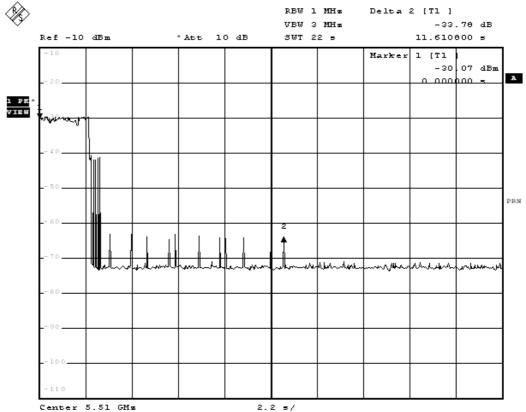
Channel Move Time for Radar Test Signal 5 at 5500MHz



Test Item	Limit	Results
Channel Move Time	10 Seconds	Pass

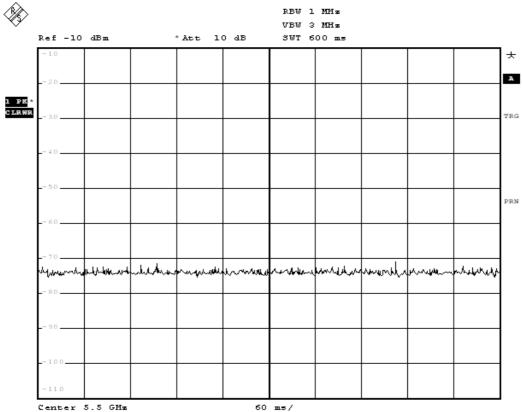


Channel Move Time for Radar Test Signal 5 at 5510MHz



Test Item	Limit	Results
Channel Move Time	10 Seconds	Pass

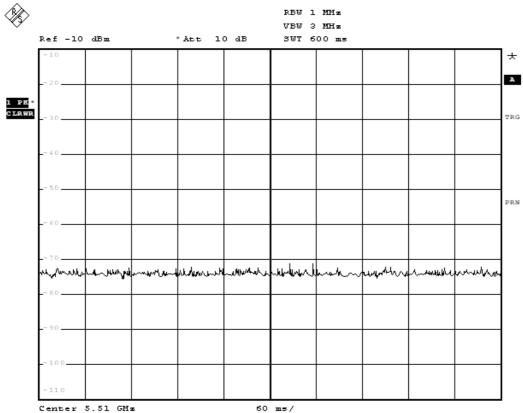
Channel Closing Transmission Time for Radar Test Signal 5 at 5500 MHz



Test Item	Limit	Results
Channel Closing Transmission	200 milliseconds + approx. 60	Pass
	milliseconds over remaining 10 seconds	
	period	



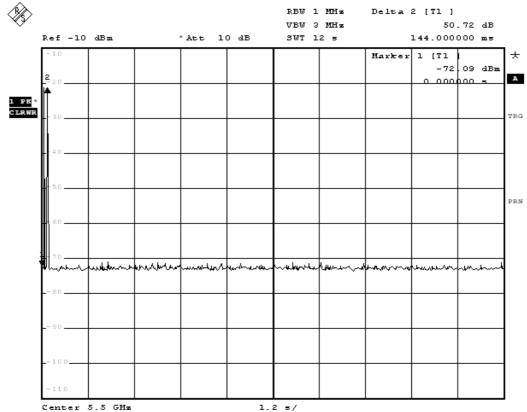
Channel Closing Transmission Time for Radar Test Signal 5 at 5510 MHz



Test Item	Limit	Results
Channel Closing Transmission	200 milliseconds + approx. 60	Pass
	milliseconds over remaining 10 seconds	
	period	



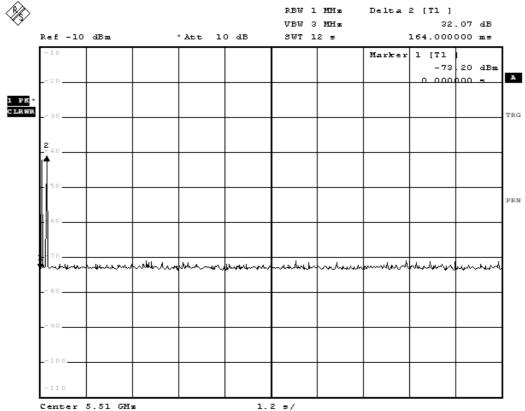
Channel Move Time for Radar Test Signal 6 at 5500MHz



Test Item	Limit	Results
Channel Move Time	10 Seconds	Pass



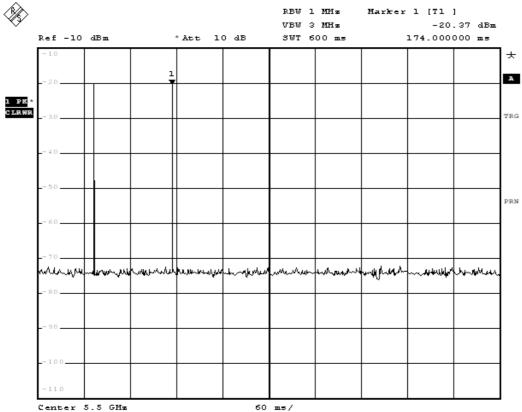
Channel Move Time for Radar Test Signal 6 at 5510MHz



Test Item	Limit	Results
Channel Move Time	10 Seconds	Pass



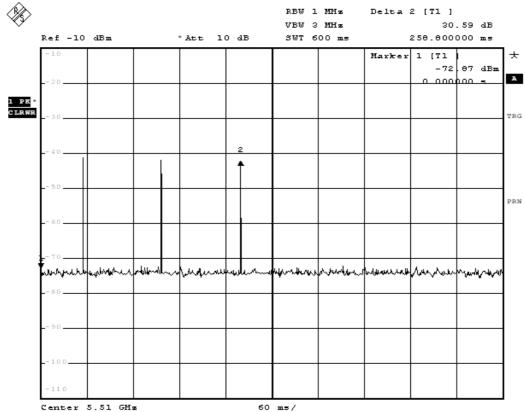
Channel Closing Transmission Time for Radar Test Signal 6 at 5500 MHz



Test Item	Limit	Results
Channel Closing Transmission	200 milliseconds + approx. 60	Pass
	milliseconds over remaining 10 seconds	
	period	



Channel Closing Transmission Time for Radar Test Signal 6 at 5510 MHz



Test Item	Limit	Results
Channel Closing Transmission	200 milliseconds + approx. 60	Pass
	milliseconds over remaining 10 seconds	
	period	

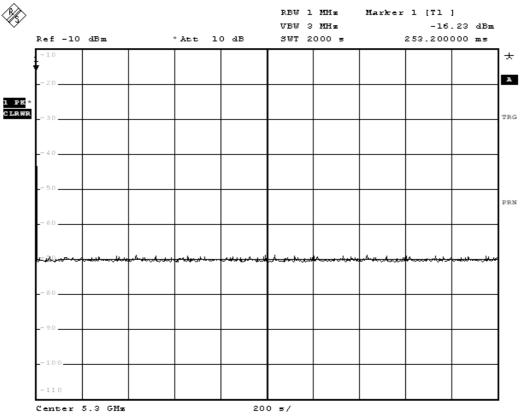
QuieTek

Non-Occupancy Period

Measure the EUT for more than 30 minutes following the channel close/move time to verify that the UUT does not resume any transmissions on this channel.

20MHz Channel Mode

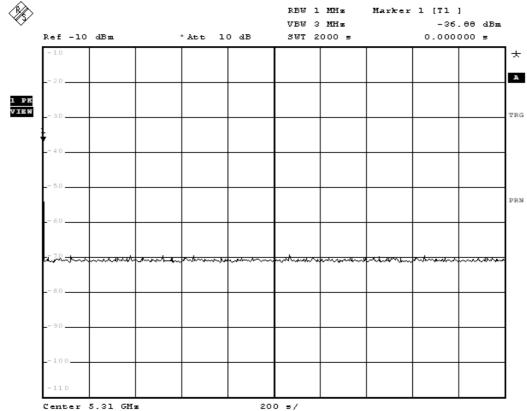
30 Minute Non-Occupancy Period (using Type 1 Radar) at 5300 MHz



Test Item	Limit	Results
Non-Occupancy Period	30 Minutes	Pass



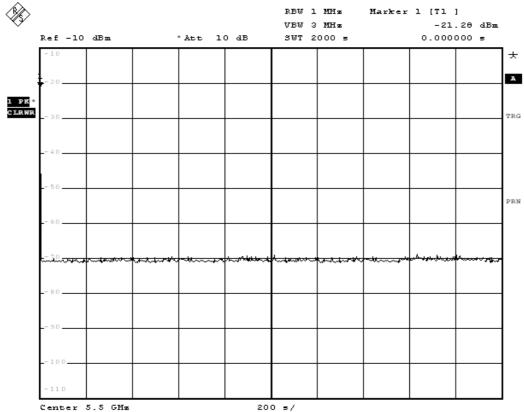
30 Minute Non-Occupancy Period (using Type 1 Radar) at 5310 MHz



Test Item	Limit	Results
Non-Occupancy Period	30 Minutes	Pass



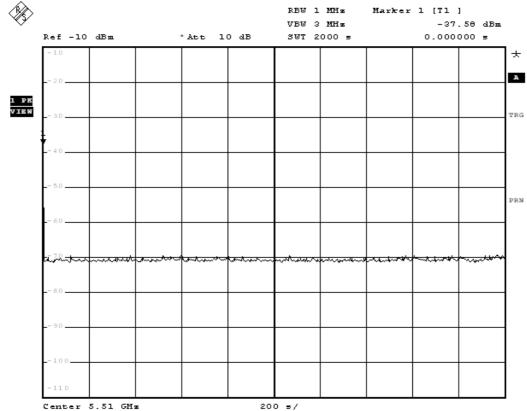
30 Minute Non-Occupancy Period (using Type 1 Radar) at 5500 MHz



Test Item	Limit	Results
Non-Occupancy Period	30 Minutes	Pass



30 Minute Non-Occupancy Period (using Type 1 Radar) at 5510 MHz



Test Item	Limit	Results
Non-Occupancy Period	30 Minutes	Pass