## Dynamic Frequency Selection (DFS) Test Report

Product Name	Intelligent Robot
Model No	Zenbo
FCC ID	MSQ-ZENBO

Applicant	ASUSTeK COMPUTER INC.
Address	4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan

Date of Receipt	Aug. 15, 2016
Issued Date	Apr. 26, 2017
Report No.	1740337R-RFUSP05V00-A
Report Version	V1.0
Bac-MRA	Testing Laboratory 3023

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

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The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.



## DFS Test Report

Issued Date: Apr. 26, 2017 Report No.: 1740337R-RFUSP05V00-A

# **DEKRA**

Product Name	Intelligent Robot				
Applicant	ASUSTeK COMPUTER INC.				
Address	4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan				
Manufacturer	ASUSTeK COMPUTER INC.				
Model No.	Zenbo				
FCC ID.	MSQ-ZENBO				
EUT Rated Voltage	DC 14.4V (Power by Battery)				
EUT Test Voltage	AC 120V/60Hz				
Trade Name	ASUS				
Applicable Standard	FCC CFR Title 47 Part 15 Subpart E 15.407 (h): 2016				
	KDB 905462 D02 UNII DFS Compliance Procedures				
	KDB 905462 D03 UNII Clients Without Radar Detection				
	FCC 14-30				
Test Result	Complied				

Documented By :

:

:

Gente Chang

(Senior Adm. Specialist / Genie Chang)

Tested By

Yulin Chen

(Engineer / Yulin Chen)

Approved By

(Director/Vincent Lin)



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Attachment 1: EUT Test Photographs

#### 1. GENERAL INFORMATION

#### **1.1. EUT Description**

Product Name	Intelligent Robot			
Trade Name	ASUS			
FCC ID.	MSQ-ZENBO			
Model No.	Zenbo			
Frequency Range	802.11a/n-20MHz: 5180-5320MHz, 5500-5700MHz, 5745-5825MHz			
	802.11n-40MHz: 5190-5310, 5510-5670MHz, 5755-5795MHz			
	802.11ac-20MHz: 5720, 802.11ac-40MHz: 5710			
	802.11ac-80MHz: 5210-5290MHz, 5530-5690MHz, 5775MHz			
Number of Channels	802.11a/n-20MHz: 24; 802.11n-40MHz: 11			
	802.11ac-20MHz: 1, 802.11ac-40MHz: 1, 802.11ac-80MHz: 6			
Channel Control	Auto			
Data Rate	802.11a: 6 - 54Mbps			
	802.11n: up to150Mbps			
	802.11ac-80MHz: up to 433.3MHz			
Type of Modulation	OFDM, BPSK, QPSK, 16QAM, 64QAM, 256QAM			
DFS Function	☐ Master			
TPC Function	■ <500mW not required $\square \ge 500$ mW employ a TPC			
Communication Mode	■ IP Based Systems □ Frame Based System □ Other System			
Antenna type	PIFA Antenna			
Power Adapter	MFR: ASUS, M/N: ADP-45BW B			
	Input: AC 100-240V, 50-60Hz, 1.2A			
	Output: DC 19V, 2.37A			
	Cable Out: Non-shielded, 2.3m			

#### Antenna List

No.	Manufacturer	Part No.	ASUS Part No.	Antenna Type	Peak Gain
1	ASUS	290-70109	14008-02060000	PIFA Antenna	0.59dBi for 2.4 GHz
					2.07dBi for 5.15~5.25GHz
					1.05dBi for 5.25~5.35GHz
					2.51dBi for 5.47~5.725GHz
					1.80dBi for 5.725~5.850GHz



802.11a/n-20MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 036:	5180 MHz	Channel 040:	5200 MHz	Channel 044:	5220 MHz	Channel 048:	5240 MHz
Channel 052:	5260 MHz	Channel 056:	5280 MHz	Channel 060:	5300 MHz	Channel 064:	5320 MHz
Channel 100:	5500 MHz	Channel 104:	5520 MHz	Channel 108:	5540 MHz	Channel 112:	5560 MHz
Channel 116:	5580 MHz	Channel 120:	5600 MHz	Channel 124:	5620 MHz	Channel 128:	5640 MHz
Channel 132:	5660 MHz	Channel 136:	5680 MHz	Channel 140:	5700 MHz	Channel 149:	5745 MHz
Channel 153:	5765 MHz	Channel 157:	5785 MHz	Channel 161:	5805 MHz	Channel 165:	5825 MHz

802.11n-40MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 038:	5190 MHz	Channel 046:	5230 MHz	Channel 054:	5270 MHz	Channel 062:	5310 MHz
Channel 102:	5510 MHz	Channel 110:	5550 MHz	Channel 118:	5590 MHz	Channel 126:	5630 MHz
Channel 134:	5670 MHz	Channel 151:	5755 MHz	Channel 159:	5795 MHz		

802.11ac-20MHz Center Working Frequency of Each Channel:

Channel Frequency Channel 144: 5720 MHz

802.11ac-40MHz Center Working Frequency of Each Channel:

Channel Frequency Channel 142: 5710 MHz

802.11ac-80MHz Center Working Frequency of Each Channel:

ChannelFrequencyChannelFrequencyChannelFrequencyChannelChannel 042:5210 MHzChannel 058:5290 MHzChannel 106:5530 MHzChannel 122:5610 MHzChannel 138:5690 MHzChannel 155:5775 MHz5775 MHz5775 MHz5775 MHz5775 MHz

Test Mode Mode 1: Transmit
----------------------------

#### **1.2.** Standard Requirement

#### FCC Part 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 30dBm. A TPC mechanism is not required for systems with an E.I.R.P. of less than 500mW.

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.

#### **1.3.** UNII Device Description

(1) The EUT operates in the following DFS band:

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

(2) The maximum EIRP of the 5GHz equipment is 17.98dBm.

Below are the available 50 ohm antenna assemblies and their corresponding gains.

0dBi gain was used to set the -63 dBm threshold level (-64dBm +1 dB) during calibration of the test setup.

No.	Manufacturer	Part No.	ASUS Part No.	Antenna Type	Peak Gain
1	ASUS	290-70109	14008-02060000	PIFA Antenna	0.59dBi for 2.4 GHz
					2.07 dBi for 5.15~5.25GHz
					1.05 dBi for 5.25~5.35GHz
					2.51 dBi for 5.47~5.725GHz
					1.80 dBi for 5.725~5.850GHz

(3) DFS operation description:

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.

(4) This device does not exceed 27dBm eirp, so no transmit power control is implemented.

(5) The master device is an Access Point and FCC ID: SK6-XR320

#### 1.4. Test Equipment

Dynamic Frequency Selection (DFS) / ASR6

Instrument	Manufacturer	Type No.	Serial No	Cal. Date	Cal. Date
Spectrum Analyzer	R&S	FSV30	103467	Dec, 14, 2016	Dec, 13, 2017
Vector Signal Generator	R&S	SMBV100	261871	Mar, 02, 2017	Mar, 01, 2018

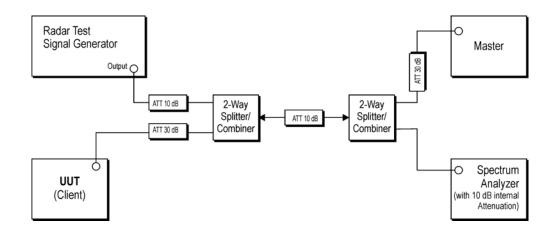
Instrument	Manufacturer	Type No.	Serial No
Splitter/Combiner (Qty: 2)	Mini-Circuits	ZFRSC-123-S+	SN331000910
Notebook Pc	Нр	HSTNN-155C	CNU8476RVZ
Notebook Pc	Dell	CPQ511VT5870Q4X320MIBNCN2Pa	CNU0060M23
8-WAY Power Divider	JFW	50PD-647-SMA	517518
RF Cable (Qty: 4)	GORE	C86	N/A
ATT (Qty: 2)	Mini-Circuits	15542	30912
ATT (Qty: 2)	Mini-Circuits	15542	30909
RF Cable	SUHNER	SUCOFLEX 104	309180/4
RF Cable	SUHNER	SUCOFLEX 106	3474516
Splitter/Combiner (Qty: 2)	Mini-Circuits	ZFRSC-123-S+	SN331000910
Access Point	XiRRUS	XR300	X103502006E80

Software	Manufacturer	Function
R&S Pulse Sequencer V1.3	R&S	Radar Signal Generation Software

Note: All equipments are calibrated every one year.



#### 1.5. Test Setup



#### **1.6. DFS Requirements Prior to Use of a Channel**

Requirement	Operational Mode			
		Client	Client	
	Master	Without	With	
	Master	Radar	Radar	
		Detection	Detection	
Non-Occupancy Period	Yes	Not	Yes	
		required		
DFS Detection Threshold	Yes	Not	Yes	
		required		
Channel Availability Check Time	Yes	Not	Not	
		required	required	
Uniform Spreading	Yes	Not	Not	
		required	required	
U-NII Detection Bandwidth	Yes	Not	Yes	
		required		

10. Distequinements during normal operation	1.7.	DFS requirements during normal operat	ion
---	------	---------------------------------------	-----

Requirement	Operational Mode				
	Master	Client Without Radar	Client With Radar		
		Detection	Detection		
DFS Detection Threshold	Yes	Not required	Yes		
Channel Closing Transmission Time	Yes	Yes	Yes		
Channel Move Time	Yes	Yes	Yes		
U-NII Detection Bandwidth	Yes	Not required	Yes		

#### **1.8. DFS Detection Thresholds**

#### (1) Interference Threshold value, Master or Client incorporating In-Service Monitoring

Maximum Transmit Power	Value (see note)			
≥200 milliwatt	-64 dBm			
EIRP < 200 milliwatt and				
ower spectral density < 10 dBm/MHz -62 dBm				
EIRP < 200 milliwatt that do not meet the power				
spectral density requirement -64 dBm				
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.

**Note3:** EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

#### (2) DFS Response requirement values

Parameter	Value
Non-Occupancy Period	30 Minutes
Channel Availability Check Time	60 Seconds
	10 seconds
Channel Move Time	See Note 1.
	200 milliseconds + an aggregate of 60
Channel Closing Transmission Time	milliseconds over remaining 10 second period.
	See Notes 1 and 2.
	Minimum 100% of the U-NII 99%
U-NII Detection Bandwidth	transmission power bandwidth. See Note 3.

**Note 1:** *Channel Move Time* and the *Channel Closing Transmission Time* should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

**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 to facilitate a *Channel* move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

**Note 3:** During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

#### **1.9.** Radar Test Waveforms

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.



#### (1) Short Pulse Radar Test Waveforms

Radar	Pulse	PRI	Number of Pulses	Minimum	Minimum
Type	Width	(µsec)		Percentage of	Number
	(µsec)			Successful	of
				Detection	Trials
0	1	1428	18	See Note 1	See Note
					1
1	1	Test A: 15 unique	$\left( \left( 1 \right) \right)$	60%	30
		PRI values	$\left(\frac{1}{360}\right)$		
		randomly selected	D 1		
		from the list of 23	Roundup $\left( 19.10^{6} \right)$		
		PRI values in	$(PRI_{\mu sec})$		
		Table 5a	(( ,/)		
		Test B: 15 unique			
		PRI values			
		randomly selected			
		within the range			
		of 518-3066			
		$\mu$ sec, with a			
		minimum			
		increment of 1			
		$\mu$ sec,			
		excluding PRI			
		values			
		selected in			
		Test A			
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 (	Radar Types	1-4)		80%	120
Note 1: Sho	ort Pulse Ra	adar Type 0 shoul	d be used for the d	letection band	width
test, char	nnel move t	ime, and channel	closing time tests.		

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is 905462 D02 UNII DFS Compliance Procedures v01 Page 10 generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

#### (2) Long Pulse Radar Test Signal

Radar Waveform	Bursts	Pulses Per Burst	Pulse Width (usec)	Chirp Width (MHz)	PRI (usec)	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.

Each waveform is defined as follows:

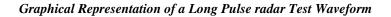
- 1) The transmission period for the Long Pulse Radar test signal is 12 seconds.
- 2) There are a total of 8 to 20 Bursts in the 12 second period, with the number of Bursts being randomly chosen. This number is Burst\_Count.
- 3) Each Burst consists of 1 to 3 pulses, with the number of pulses being randomly chosen. Each Burst within the 12 second sequence may have a different number of pulses.
- 4) The pulse width is between 50 and 100 microseconds, with the pulse width being randomly chosen. Each pulse within a Burst will have the same pulse width. Pulses in different Bursts may have different pulse widths.
- 5) Each pulse has a linear FM chirp between 5 and 20 MHz, with the chirp width being randomly chosen. Each pulse within a Burst will have the same chirp width. Pulses in different Bursts may have different chirp widths. The chirp is centered on the pulse. For example, with radar frequency of 5310 MHz and a 20 MHz chirped signal, the chirp starts at 5300 MHz and ends at 5320 MHz.
- 6) If more than one pulse is present in a Burst, the time between the pulses will be between 1000 and 2000 microseconds, with the time being randomly chosen. If three pulses are present in a Burst, the time between the first and second pulses is chosen independently of the time between the second and third pulses.
- 7) The 12 second transmission period is divided into even intervals. The number of intervals is equal to Burst\_Count. Each interval is of length (12,000,000 / Burst\_Count) microseconds. Each interval contains one Burst. The start time for the Burst, relative to the beginning of the interval, is between 1 and [(12,000,000 / Burst\_Count) (Total Burst Length) + (One Random PRI Interval)] microseconds, with the start time being randomly chosen. The step interval for the start time is 1 microsecond. The start time for each Burst is chosen independently.

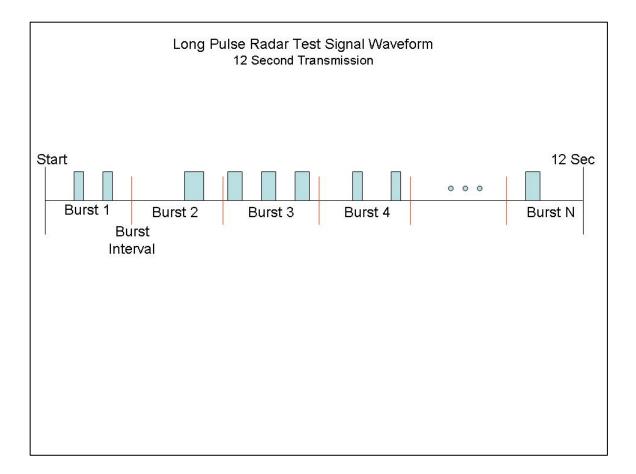
#### A representative example of a Long Pulse radar test waveform:

- 1) The total test signal length is 12 seconds.
- 2) 8 Bursts are randomly generated for the Burst\_Count.
- 3) Burst 1 has 2 randomly generated pulses.
- 4) The pulse width (for both pulses) is randomly selected to be 75 microseconds.
- 5) The PRI is randomly selected to be at 1213 microseconds.
- 6) Bursts 2 through 8 are generated using steps 3 5.



7) Each Burst is contained in even intervals of 1,500,000 microseconds. The starting location for Pulse 1, Burst 1 is randomly generated (1 to 1,500,000 minus the total Burst 1 length + 1 random PRI interval) at the 325,001 microsecond step. Bursts 2 through 8 randomly fall in successive 1,500,000 microsecond intervals (i.e. Burst 2 falls in the 1,500,001 – 3,000,000 microsecond range).







Radar	Pulse	PRI	Hopping	Pulses Per	Hopping	Minimum	Minimum
Waveform	Width	$(\mu \sec)$	Sequence	Нор	Rate (kHz)	Percentage	Trials
	$(\mu \text{sec})$		Length			of	
			(msec)			Successful	
						Detection	
6	1	333	300	9	0.333	70%	30

#### (3) Frequency Hopping Radar Test Signal

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<sub>1</sub> from the hopping sequence defined by the following algorithm:

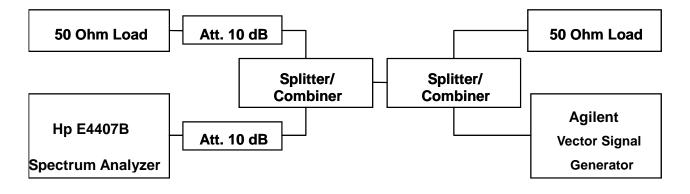
The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724 MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely.

#### **1.10.** 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 500hm 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 3MHz and 3 MHz.

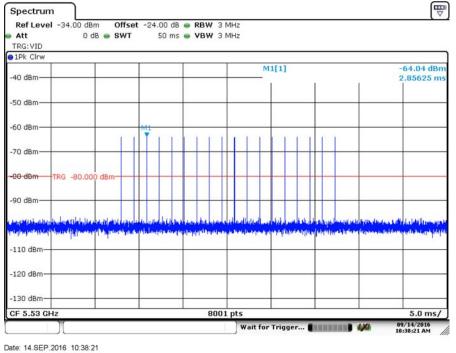
The signal generator amplitude was set so that the power level measured at the spectrum analyzer was -64dBm due to the interference threshold level is not required.

Conducted Calibration Setup



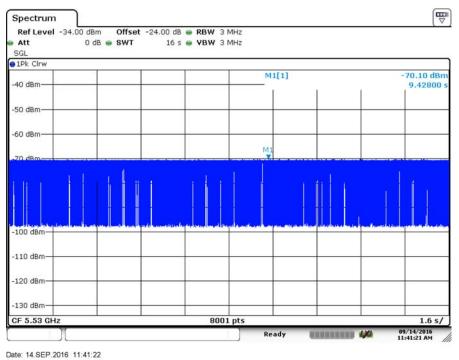
#### 1.11. Radar Waveform Calibration Result

#### Radar Type 0 Calibration Plot (5530MHz)



#### 1.12. Slave Data Traffic Plot Result

#### Plot of Slave Traffic at 5530MHz



#### 2. In-Service Monitoring for Channel Move Time and Channel Closing Transmission Time and Non-Occupancy Period

#### 2.1. Test Procedure

These tests define how the following DFS parameters are verified during In-Service Monitoring;

Channel Closing Transmission Time, Channel Move Time, and Non-Occupancy Period.. The steps below define the procedure to determine the above mentioned parameters when a radar Burst with a level equal to the DFS Detection Threshold + 1dB (-63dBm) is generated on the Operating Channel of the U-NII device.

A U-NII device operating as a Master Device will associate with the UUT (Client) at 5300 MHz and 5500MHz.

Stream the MPEG test file from the Client (TX) Device to the Master (RX) Device on the selected Channel for the entire period of the test.

At time To the Radar Waveform generator sends a Burst of pulses for each of the radar types at

-63dBm.

Observe the transmissions of the UUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). Compare the Channel Move Time and Channel Closing

Transmission Time results to the limits defined in the DFS Response requirement values table.

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

#### 2.2. Test Requirement

Parameter	Value
Channel Move Time	10 Seconds
Channel Closing Transmission	200 milliseconds + an aggregate of 60
Time	milliseconds over remaining 10 seconds period
Non-Occupancy Period	Minimum 30 minutes

#### 2.3. Uncertainty

± 2.31ms.

## 2.4. Test Result of Channel Move Time and Channel Closing Transmission Time and Non-Occupancy Period

Product	:	Intelligent Robot	
Test Item	:	Channel Move Time Test	
Radar Type	:	Type 0	
Test Mode	:	Mode 1: Transmit	

#### ₽ Spectrum **Ref Level** -34.00 dBm Offset -24.00 dB 👜 RBW 3 MHz Att 0 dB 💿 SWT 16 s 👄 VBW 3 MHz SGL 91Pk Clrw D1[1] -11.19 dB -40 dBm-490.00 ms -64.02 dBm M1[1] -50 dBm 2.41400 -60 dBm -100 dBn -110 dBm -120 dBm -130 dBm-CF 5.53 GHz 8001 pts 1.6 s/ Marker Type Ref Trc M1 1 D1 M1 1 Function Function Result X-value Y-value 2.414 s 490.0 ms -64.02 dBm -11.19 dB 09/14/2016 11:29:57 AM Ready

#### Channel Move Time for Radar Test Type 0 at 5530MHz

Date: 14.SEP.2016 11:29:58

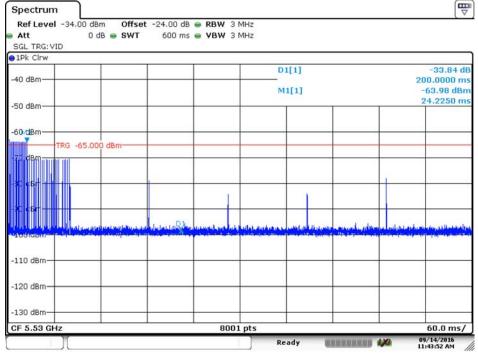
Test Item	Test Result (Sec)	Limit (Sec)	
Channel Move Time	0.492	10	

The results showed that after radar signal injected the channel move time was less than 10 seconds.



Product	:	Intelligent Robot	
Test Item	:	Channel Closing Transmission Time Test	
Radar Type	:	Type 0	
Test Mode	:	Mode 1: Transmit	

#### Channel Closing Transmission Time for Radar Test Type 0 at 5530 MHz



Date: 14.SEP.2016 11:43:53

Togt Home	Test Result	Limit
Test Item	(ms)	( <b>ms</b> )
Channel Closing Transmission	0.187	200 milliseconds + approx. 60
		milliseconds over remaining 10
		seconds period

\*Note: The test result is "bin number X time per bin (600 ms / 8000)"

The results showed that after radar signal injected the channel transmission closing time less than 200 milliseconds and an aggregate of no more than 60 milliseconds.



Product	:	Intelligent Robot	
Test Item		Non-Occupancy Period	
Radar Type	:	Type 0	
Test Mode	:	Mode 1: Transmit	

#### Non-Occupancy Period at 5530 MHz

Spectrum						
Ref Level Att SGL			B 👄 RBW 3 MH2 s 👄 VBW 3 MH2			,
1Pk Clrw		0.0				
-40 dBm				D1[1]		-27.57 dE 1800.000 s
-50 dBm				M1[1]	7	-62.44 dBm 129.027 s
-60 dB						
-70 dBm						
-80 dBm						
-90 dBm			1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			and the second second
-100 dBm-	ingili - tip daha	a the same in the transmission of a black of a	-21-41-7-1-12-12-12-12-12-12-12-12-12-12-12-12-1	0-12×14-02-22-22-22-22-22-22-22-22-22-22-22-22-	dan da ba da	
-110 dBm-						
-120 dBm						
-130 dBm						
CF 5.53 GH	z		8001 pt	s		1.6 s/
Marker	1 - 1					
Type Ref M1	Trc 1	X-value 129.028 s	-62.44 dBm	Function	Fund	tion Result
D1 M1		1.8 ks	-27.57 dB			
	)[			Ready	STREETINGS	09/19/2016 06:33:22 PM

Date: 19.SEP.2016 18:33:22

Test Item	Test Result (Minutes)	Limit (Minutes)
Non-Occupancy Period	>30	≧30

No EUT transmissions were observed on the test channel during 30 minutes observation time.