FCC/ISED TESTREPORT

ISSUED BY Shenzhen BALUN Technology Co., Ltd.



FOR

Navigation and Multimedia device

ISSUED TO Robert Bosch Car Multimedia GmbH

Robert-Bosch-Str. 200, 31139 Hildesheim, Germany





Report No.:

BL-SZ1870190-607

EUT Name:

Navigation and Multimedia device

Model Name: AIVIH60A0 Brand Name:

Bosch

Test Standard: 47 CFR Part 15 Subpart E

RSS-247 (Issue 2, February 2017)

FCC ID:

YBN-AIVIH60A0

ISED Number:

9595A- AIVIH60A0

Test Conclusion:

Pass

Test Date:

Jul. 18, 2018 ~ Jul. 20, 2018

Date of Issue: Aug. 01, 2018

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Revision History

Version Issue Date Revisions Content

Rev. 01 Aug. 01, 2018 Initial Issue

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1 ADMINISTRATIVE DATA (GENERAL INFORMATION)

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road,
	Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Addroop	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road,
Address	Nanshan District, Shenzhen, Guangdong Province, P. R. China
	The laboratory has been listed by Industry Canada to perform
	electromagnetic emission measurements. The recognition numbers of
	test site are 11524A-1.
	The laboratory is a testing organization accredited by FCC as a
Accreditation	accredited testing laboratory. The designation number is CN1196.
Certificate	The laboratory is a testing organization accredited by American
Certificate	Association for Laboratory Accreditation(A2LA) according to ISO/IEC
	17025.The accreditation certificate is 4344.01.
	The laboratory is a testing organization accredited by China National
	Accreditation Service for Conformity Assessment (CNAS) according to
	ISO/IEC 17025. The accreditation certificate number is L6791.
	All measurement facilities used to collect the measurement data are
Description	located at Block B, FL 1, Baisha Science and Technology Park, Shahe
Description	Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R.
	China 518055

1.3 Laboratory Condition

Ambient Temperature	20°C to 25°C
Ambient Relative	45% to 55%
Humidity	45% to 55%
Ambient Pressure	100 kPa to 102 kPa

1.4 Announce

- (1) The test report reference to the report template version v4.5.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.



2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Robert Bosch Car Multimedia GmbH
Address	Robert-Bosch-Str. 200, 31139 Hildesheim, Germany

2.2 Manufacturer Information

	Manufacturer	Robert Bosch Car Multimedia GmbH
I	Address	Robert-Bosch-Str. 200, 31139 Hildesheim, Germany

2.3 Factory Information

Factory 1	Bosch Car Multimedia Portugal, S.A.
Address 1	Rua Max Grundig, 35-Lomar, 4705-820 Braga
Factory 2	Robert Bosch (Malaysia)
Address 2	Free Trade Zone 11900, Bayan Lepas, Penang
Factory 3	Bosch Automotive Products (Wuhu) Co., Ltd.
Address 3	No. 88 Guandoumen Road, Jiujiang District; Wuhu City, Anhui
	Province 241000; China

2.4 General Description for Equipment under Test (EUT)

EUT Name	Navigation and Multimedia device
Model Name Under Test	AIVIH60A0
Series Model Name	N/A
Description of Model	N/A
name differentiation	N/A
Hardware Version	001
Software Version	X308
Dimensions (Approx.)	27.8*15.6*17cm
Weight (Approx.)	N/A

2.5 Ancillary Equipment

Note: Not applicable.



2.6 Technical Information

Network and Wireless	Bluetooth 4.0 (BR+EDR)
connectivity	WIFI 802.11a, 802.11b, 802.11g and 802.11n (HT20/40), 802.11ac

The requirement for the following technical information of the EUT was tested in this report:

	9
Frequency Range	5250 MHz to 5350 MHz, 5470 MHz to 5725 MHz
Product Type	☐ Portable
	☐ Fix Location
Mariana Ortant Dama	5250 MHz to 5350 MHz: 1.04 dBm
Maximum Output Power	5470 MHz to 5725 MHz: 5.66 dBm
Antenna Type	Integrated Antenna
Antonno Coin	5250 MHz to 5350 MHz: 5.4 dBi
Antenna Gain	5470 MHz to 5725 MHz: 4.5 dBi

Note: This device (Client) is without radar detection, then the manufacturer statement confirming that information regarding the parameters of the detected Radar Waveforms is not available to the end user. And the device doesn't have Ad Hoc mode on DFS frequency band.



3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15	Unlicensed National Information Infrastructure Devices
'	Subpart E	Officerised National Information Infrastructure Devices
2	KDB Publication	LINII DES Compliance Procedures New Pules
	905462 D02v02	UNII DFS Compliance Procedures New Rules
3	KDB Publication	LINIII Cliente Without Dodar Detection New Bules
٥	905462 D03v01r02	UNII Clients Without Radar Detection New Rules
4	KDB Publication	Guidelines for Compliance Testing of Unlicensed National
4	789033 D02v02r01	Information Infrastructure (U-NII) Devices Part 15, Subpart E
	RSS-247	Digital Transmission Systems (DTSs), Frequency Hopping
5	(Issue 2, Feb 2017)	Systems(FHSs) and Licence-Exemp Local Area Network (LE-LAN)
	(155ue 2, 1 eb 2017)	Devices
6	KDB Publication	Operational Modes for DFS Testing New Rules
0	905462 D04v01	Operational vioues for Dr 3 resting New Rules

3.2 Verdict

No.	Description	FCC Part No.	RSS Part No.	Verdict	Remark
1	Channel Move Time	15.407	RSS-247, 6.3	Pass	Applicable
2	Channel Closing Transmission Time	15.407	RSS-247, 6.3	Pass	Applicable
3	Non- Occupancy Period	15.407	RSS-247, 6.3	Pass	Applicable

3.3 Test Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement	Value
Occupied Channel Bandwidth	±4%
RF output power, conducted	±1.4 dB
Power Spectral Density, conducted	±2.5 dB
Unwanted Emissions, conducted	±2.8 dB
All emissions, radiated	±5.4 dB
Temperature	±1°C
Humidity	±4%



4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	45% to 55%		
Atmospheric Pressure	100 kPa to 102 kPa		
	NT (Normal Temperature)	+22°C to +25°C	
Temperature	LT (Low Temperature)	-30℃	
	HT (High Temperature)	+70°C	
	NV (Normal Voltage)	13.6 V	
Working Voltage of the EUT	LV (Low Voltage)	9.0 V	
	HV (High Voltage)	16.0 V	

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	nalyzer ROHDE&SCHWARZ		103118	2018.06.11	2019.06.10
Vector Signal Generator	ROHDE&SCHWARZ	SMBV100A	260592	2018.06.11	2019.06.10
Signal Generator	ROHDE&SCHWARZ	SMB100A	177746	2018.06.11	2019.06.10
Switch Unit with OSP- B157	ROHDE&SCHWARZ	OSP120	101270	2018.06.11	2019.06.10
Spectrum Analyzer	AGILENT	E4440A	MY45304434	2018.06.21	2019.06.20
Power Splitter	KMW	DCPD-LDC	1305003215		-1
Power Sensor	ROHDE&SCHWARZ	NRP-Z21	103971	2018.06.11	2019.06.10
Attenuator (20 dB)	KMW	ZA-S1-201	110617091		
Attenuator (6 dB)	KMW	ZA-S1-61	1305003189		
DC Power Supply	ITECH	IT6720	60010301071 7610007	2018.06.21	2019.06.20
RF cable	Balun	Balun1	SRD01	2018.04.25	2018.10.24
RF cable	Balun	Balun2	SRD02	2018.04.25	2018.10.24
RF cable	Balun	EMC1	EMC01	2018.04.25	2018.10.24
RF cable	Huber&suhner	Boa-flex I	N/A	2018.04.25	2018.10.24
RF cable	Huber&suhner	Steel-flex I	N/A	2018.04.25	2018.10.24
laptop	Lenovo	X220	4286A17	N/A	N/A

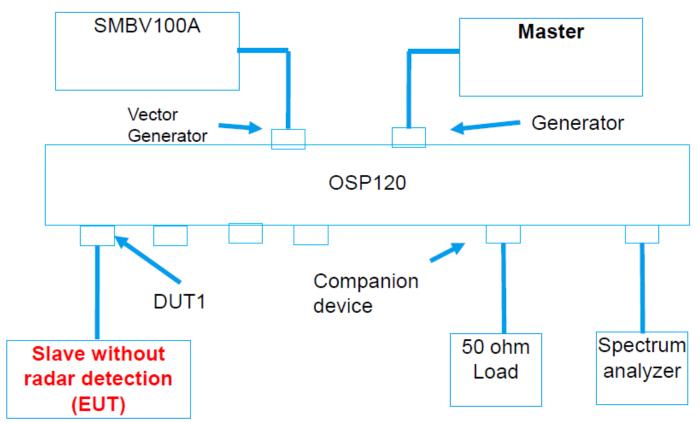
	Access Point	
Master	Brand Name	Aerohive
	Model No.	AP230
	Serial No.	AH-AP-230-AC-W
	FCC ID	WBV-AP230
	SPEC.	The maximum EIRP is18.5dBm, Antenna Gain is 6.57dBi



4.3 Description of Test Setup

4.3.1 Conducted Test Setup Configuration

Client without Radar Detection Mode



The UUT is a U-NII Device operating in Client mode without radar detection. The radar test signals are injected into the Master Device.

(Diagram 1)



5 Test Type and Test Results

5.1 DFS

5.1.1 U-NII DFS Rule Requirements

5.1.1.1 Working Mode and Required Test Items

The manufacturer shall state whether the UUT is capable of operating as a Master and/or a Client. If the UUT is capable of operating in more than one operating mode then each operating mode shall be tested separately. See tables 1 and 2 for the applicability of DFS requirements for each of the operational modes.

APPLICABILITY OF DFS REQUIREMENTS PRIOR TO USE A CHANNEL

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

APPLICABILITY OF DFS REQUIREMENTS DURING NORMAL OPERATION

		Operational Mode	
Requirement	Master	Client without radar detection	t radar Client with radar detection
DFS Detection Threshold	✓	Not required	✓
Channel Closing Transmission Time	✓	✓	✓
Channel Move Time	✓	✓	✓
U-NII Detection Bandwidth	✓	Not required	✓



5.1.2 Test Limits and Radar Signal Parameters

Detection Thereshold Values

DFS DETECTION THRESHOLDS FOR MASTER DEVICES AND CLIENT DEVICES WITH RADAR DETECTION

Maximum Transmit Power	Value (See Note ^{1 & 2})
≥ 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 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	Minimum 30 minutes				
Channel Availability Check Time	60 seconds				
Channel Move Time	10 seconds See Note ¹ .				
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Note 182.				
U-NII Detection Bandwidth	100% of the UNII transmission power bandwidth. See Note 3.				

Note ¹: 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 second period defining the Radar Waveform.

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 1 is used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.



Parameters of DFS Test Signals

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.

SHORT PULSE RADAR TEST WAVEFORMS

Radar Type	Pulse Width (µsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note	See Note
		Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	(I)		
1	1	Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A	Roundup $ \left\{ \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{sec}}} \right) \right\} $	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 (Radar Types	80%	120	

Note: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

LONG PULSE RADAR TEST WAVEFORM

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

FREQUENCY HOPPING RADAR TEST WAVEFORM

Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30



5.1.2.1 Test Setup

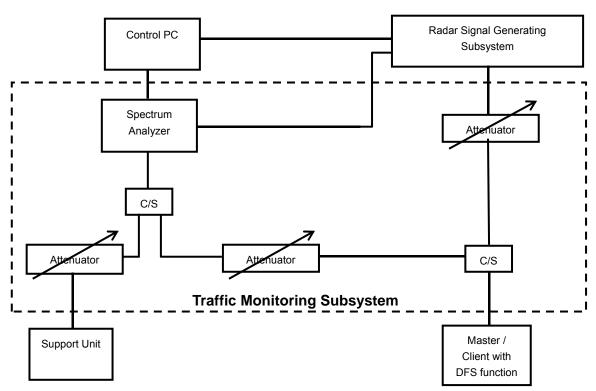
See 4.3 for test setup description for the radiated test. The photo of test setup please refer to ANNEX B.

5.1.2.2 Test Procedure

DFS MEASUREMENT SYSTEM:

A complete DFS Measurement System consists of two subsystems: (1) the Radar Signal Generating Subsystem and (2) the Traffic Monitoring Subsystem. The control PC is necessary for generating the Radar waveforms in Table 6, 7 and 8. The traffic monitoring subsystem is specified to the type of unit under test (UUT).

Conducted setup configuration of ADT DFS Measurement System



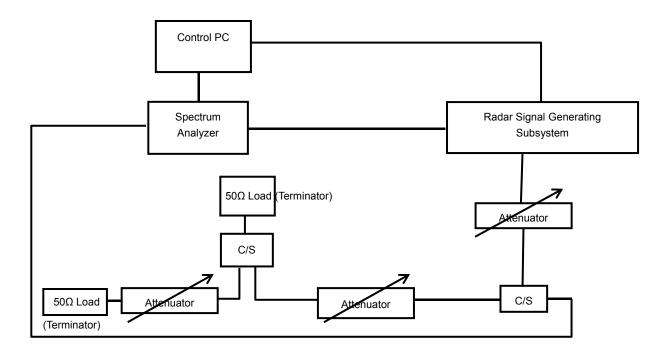
The test transmission will always be from the Master Device to the Client Device. While the Client device is set up to associate with the Master device and play the MPEG file (6 $\frac{1}{2}$ Magic Hours) from Master device, the designated MPEG test file and instructions are located at: http://ntiacsd.ntia.doc.gov/dfs/.

CALIBRATION OF DFS DETECTION THRESHOLD LEVEL:

The measured channel is 5500 MHz in 20MHz Bandwidth and 5530MHz in 80MHz Bandwidth. The radar signal was the same as transmitted channels, and injected into the antenna port of AP (master) or Client Device with Radar Detection, measured the channel closing transmission time and channel move time. The Master antenna gain is 6.57dBi and required detection threshold is-54.43dBm (= -62 +1 +6.57)dBm. The calibrated conducted detection threshold level is set to -54.43 dBm.



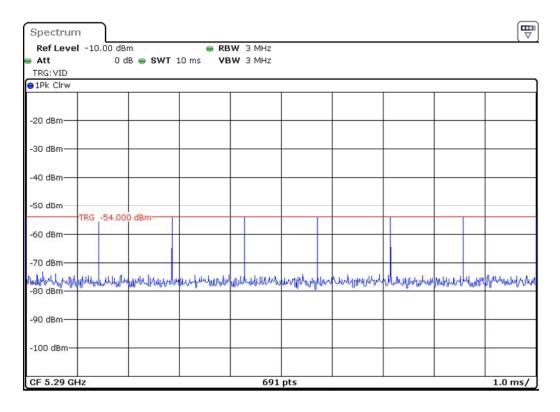
Conducted setup configuration of Calibration of DFS Detection Threshold Level





Radar Waveform Calibration Result

Radar Type 0 Calibration Plot (5290MHz)

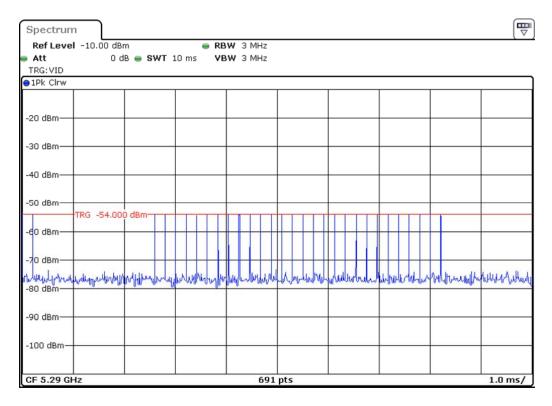


Trial ID	Radar type	Pulse width(us)	PRI(us)	Number of pulse	
0	Type 0	1.0 1428		1.0 1428 18	18
1	Type 0	1.0	1428	18	
2	Type 0	1.0	1428	18	
3	Type 0	1.0	1428	18	
4	Type 0	1.0	1428	18	
5	Type 0	1.0	1428	18	
6	Type 0	1.0	1428	18	
7	Type 0	1.0	1428	18	
8	Type 0	1.0	1428	18	
9	Type 0	1.0	1428	18	
10	Type 0	1.0	1428	18	
11	Type 0	1.0	1428	18	
12	Type 0	1.0	1428	18	
13	Type 0	1.0	1428	18	
14	Type 0	1.0	1428	18	
15	Type 0	1.0	1428	18	
16	Type 0	1.0	1428	18	
17	Type 0	1.0	1428	18	
18	Type 0	1.0	1428	18	
19	Type 0	1.0	1428	18	
20	Type 0	1.0	1428	18	
21	Type 0	1.0	1428	18	



22	Type 0	1.0	1428	18
23	Type 0	1.0	1428	18
24	Type 0	1.0	1428	18
25	Type 0	1.0	1428	18
26	Type 0	1.0	1428	18
27	Type 0	1.0	1428	18
28	Type 0	1.0	1428	18
29	Type 0	1.0	1428	18

Radar Type 2 Calibration Plot (5290MHz)



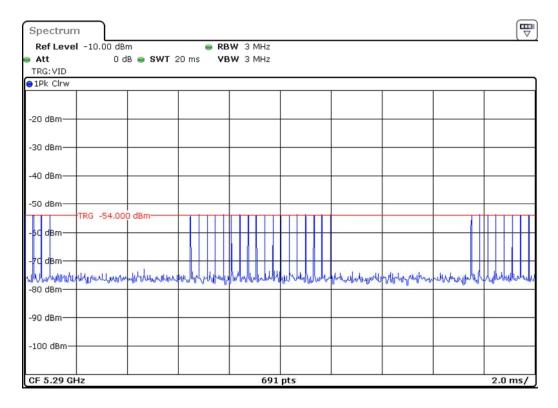
Trial ID	Radar type	Pulse width(us)	PRI(us)	Number of pulse
0	Type 2	2.4	161	27
1	Type 2	1.2	229	28
2	Type 2	3.3	180	23
3	Type 2	3.8	164	25
4	Type 2	4.4	185	24
5	Type 2	2.2	214	27
6	Type 2	4.5	157	28
7	Type 2	2.6	196	26
8	Type 2	2	216	24
9	Type 2	2.2	188	26
10	Type 2	2.8	191	29
11	Type 2	3.4	165	24
12	Type 2	1.6	164	27



13	Type 2	3.2	209	29
14	Type 2	1.4	213	29
15	Type 2	3.3	224	27
16	Type 2	4	217	25
17	Type 2	4.7	178	27
18	Type 2	3.9	183	26
19	Type 2	1.6	174	26
20	Type 2	2.3	182	24
21	Type 2	4.7	185	25
22	Type 2	2.2	199	23
23	Type 2	3.8	165	29
24	Type 2	4.3	227	28
25	Type 2	4.9	152	29
26	Type 2	4.2	220	29
27	Type 2	2.9	176	28
28	Type 2	4.6	159	25
29	Type 2	2	203	28



Radar Type 3 Calibration Plot (5290MHz)

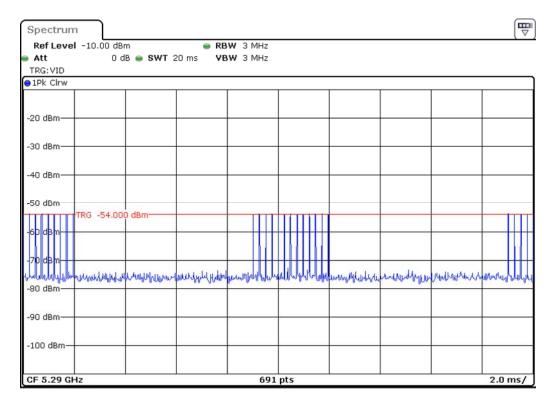


Trial ID	Radar type	Pulse width(us)	PRI(us)	Number of pulse
0	Type 3	9.2	455	17
1	Type 3	7.5	481	18
2	Type 3	8.7	373	16
3	Type 3	9.6	238	18
4	Type 3	8.1	218	18
5	Type 3	6.9	304	16
6	Type 3	7.6	274	18
7	Type 3	7.1	388	17
8	Type 3	6.3	242	17
9	Type 3	6.7	219	17
10	Type 3	8.7	478	17
11	Type 3	7.5	339	17
12	Type 3	7.3	327	16
13	Type 3	7.4	376	17
14	Type 3	9.6	358	16
15	Type 3	7.6	211	17
16	Type 3	9.9	283	17
17	Type 3	9	314	16
18	Type 3	6.2	477	18
19	Type 3	9.3	272	16
20	Type 3	8.1	288	17
21	Type 3	8	327	17



22	Type 3	9.9	255	18	
23	Type 3	7.9	272	16	
24	Type 3	8.9	494	17	
25	Type 3	6.7	242	16	
26	Type 3	7.9	262	17	
27	Type 3	9.1	426	16	
28	Type 3	9.6	346	18	
29	Type 3	6.5	329	16	

Radar Type 4 Calibration Plot (5290MHz



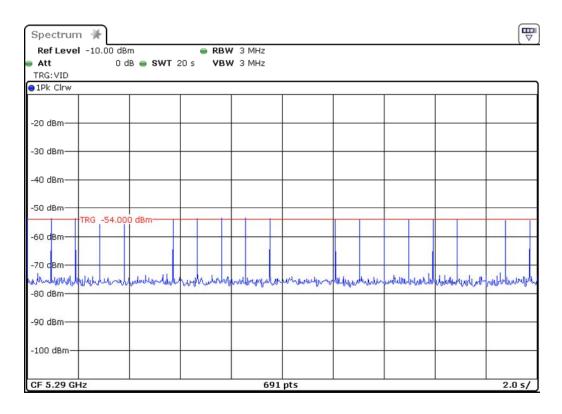
Trial ID	Radar type	Pulse width(us)	PRI(us)	Number of pulse
0	Type 4	20	296	14
1	Type 4	19.3	403	12
2	Type 4	13.4	326	12
3	Type 4	14.9	362	14
4	Type 4	18.7	480	13
5	Type 4	19.1	295	15
6	Type 4	11.2	278	16
7	Type 4	13.2	439	16
8	Type 4	19.5	294	16
9	Type 4	15.1	481	15
10	Type 4	14.2	221	13
11	Type 4	17.7	446	12
12	Type 4	16.5	264	16



13	Type 4	13.1	488	13
14	Type 4	11.5	241	13
15	Type 4	14.9	309	12
16	Type 4	17.6	310	13
17	Type 4	19.2	489	12
18	Type 4	11.7	369	14
19	Type 4	15.9	414	16
20	Type 4	11.1	245	12
21	Type 4	11.2	300	14
22	Type 4	15.1	300	16
23	Type 4	16.3	387	15
24	Type 4	16.4	246	12
25	Type 4	11.3	227	13
26	Type 4	17.8	349	12
27	Type 4	18.4	236	12
28	Type 4	16.4	482	12
29	Type 4	14.9	412	12



Radar Type 5 Calibration Plot (5290MHz)

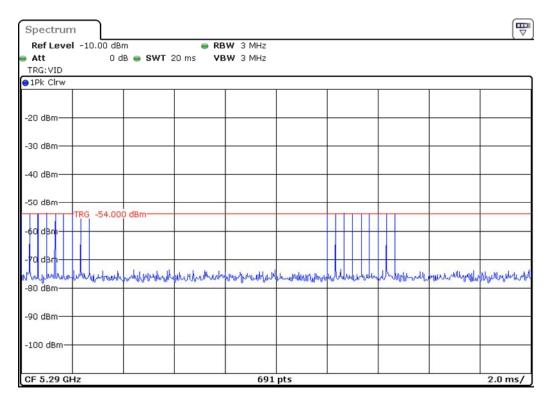


Trial ID	Radar type	Number of bursts	Burst period (S)	Waveform length (S)
0	Type 5	19	0.6315789	12.0000000
1	Type 5	14	0.8571429	12.0000000
2	Type 5	15	0.8000000	12.0000000
3	Type 5	9	1.3333333	12.0000000
4	Type 5	12	1.0000000	12.0000000
5	Type 5	19	0.6315789	12.0000000
6	Type 5	14	0.8571429	12.0000000
7	Type 5	20	0.6000000	12.0000000
8	Type 5	15	0.8000000	12.0000000
9	Type 5	8	1.5000000	12.0000000
10	Type 5	20	0.6000000	12.0000000
11	Type 5	16	0.7500000	12.0000000
12	Type 5	17	0.7058824	12.0000000
13	Type 5	13	0.9230769	12.0000000
14	Type 5	15	0.8000000	12.0000000
15	Type 5	18	0.6666667	12.0000000
16	Type 5	17	0.7058824	12.0000000
17	Type 5	12	1.0000000	12.0000000
18	Type 5	15	0.8000000	12.0000000
19	Type 5	14	0.8571429	12.0000000
20	Type 5	8	1.5000000	12.0000000
21	Type 5	20	0.6000000	12.0000000
22	Type 5	11	1.0909091	12.0000000



23	Type 5	15	0.8000000	12.0000000
24	Type 5	14	0.8571429	12.0000000
25	Type 5	8	1.5000000	12.0000000
26	Type 5	12	1.0000000	12.0000000
27	Type 5	18	0.6666667	12.0000000
28	Type 5	13	0.9230769	12.0000000
29	Type 5	17	0.7058824	12.0000000

Radar Type 6 Calibration Plot (5290MHz



Trial ID	Radar type	Pulse width (us)	PRI (us)	Pulses per Hop	Hopping Rate (KHz)	Hopping sequence length (ms)	Visible frequency mumber
0	Type 6	1.0	333.3	9	0.3333	300	28
1	Type 6	1.0	333.3	9	0.3333	300	31
2	Type 6	1.0	333.3	9	0.3333	300	38
3	Type 6	1.0	333.3	9	0.3333	300	30
4	Type 6	1.0	333.3	9	0.3333	300	29
5	Type 6	1.0	333.3	9	0.3333	300	34
6	Type 6	1.0	333.3	9	0.3333	300	35
7	Type 6	1.0	333.3	9	0.3333	300	31
8	Type 6	1.0	333.3	9	0.3333	300	38
9	Type 6	1.0	333.3	9	0.3333	300	40
10	Type 6	1.0	333.3	9	0.3333	300	32
11	Type 6	1.0	333.3	9	0.3333	300	27



12	Type 6	1.0	333.3	9	0.3333	300	26
13	Type 6	1.0	333.3	9	0.3333	300	37
14	Type 6	1.0	333.3	9	0.3333	300	34
15	Type 6	1.0	333.3	9	0.3333	300	35
16	Type 6	1.0	333.3	9	0.3333	300	29
17	Type 6	1.0	333.3	9	0.3333	300	31
18	Type 6	1.0	333.3	9	0.3333	300	40
19	Type 6	1.0	333.3	9	0.3333	300	38
20	Type 6	1.0	333.3	9	0.3333	300	34
21	Type 6	1.0	333.3	9	0.3333	300	36
22	Type 6	1.0	333.3	9	0.3333	300	29
23	Type 6	1.0	333.3	9	0.3333	300	34
24	Type 6	1.0	333.3	9	0.3333	300	32
25	Type 6	1.0	333.3	9	0.3333	300	39
26	Type 6	1.0	333.3	9	0.3333	300	37
27	Type 6	1.0	333.3	9	0.3333	300	32
28	Type 6	1.0	333.3	9	0.3333	300	35
29	Type 6	1.0	333.3	9	0.3333	300	30

5.1.2.3 Test Result

Please refer to ANNEX A

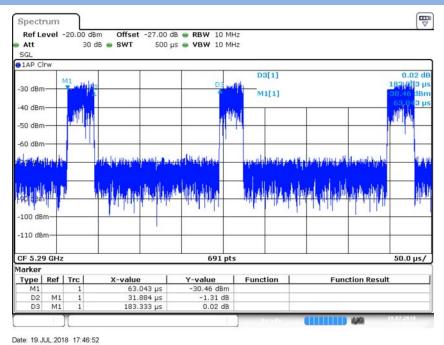


ANNEX A TEST RESULT

A.1 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME

The timing plot of the channel loading





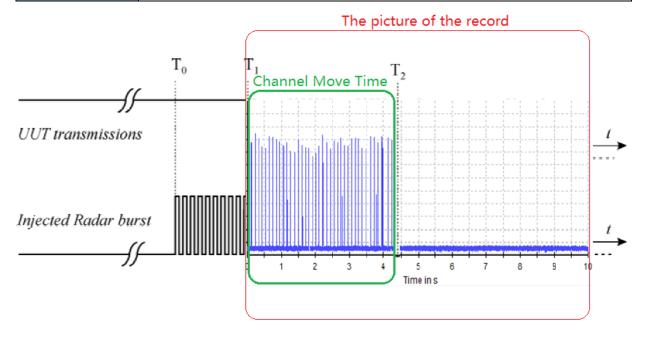
The channel loading Specification of Ton/ (Ton +Toff) as the file streaming between master to client is 17.39%.



Result of DFS Channel Shutdown

Note: The radar test signals are injected into the Master Device.

Description	Operation	Operation	Value	Limit
	Mode	Channel	(s)	
Channel Move	/e 802.11ac (80 MHz)	58	0.854	10 s
Time				
Channel Closing	802.11ac (80 MHz)	58	0.199	200 milliseconds + an aggregate of 60
Transmission				milliseconds over remaining 10 second
Time				period.
Test Verdict	Pass			



T0 denotes DFS test signal start generated on the channel.

T1 denotes the end of the radar burst.

T2 denotes the instant when the UUT has ceased all transmissions on the channel.

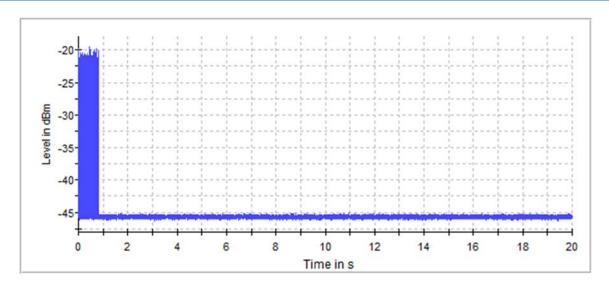
The time difference between T1 and T2 shall be measured. This value (Channel Move Time) shall be noted and compared with the limit.

The aggregate duration (*Channel Closing Transmission Time*) of all transmissions from the UUT on Ch_r during the *Channel Move Time* shall be compared to the limit.

DFS Test schematic graphic



802.11ac Channel 58



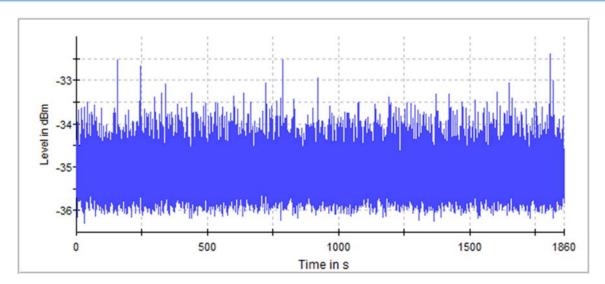


A.2 NON-OCCUPANCY PERIOD

Master was off.

During the 30 minutes observation time, The UUT did not make any transmissions in the DFS band after UUT power up.

802.11ac (80 MHz) CH58





ANNEX B TEST SETUP PHOTOS

Please refer the document "BL-SZ1870190-AR1.PDF".

--END OF REPORT--