

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600190408 Page: 1 of 29 FCC ID: APIHKVIRTUO

TEST REPORT

Application No.:	SZCR2306001904AT
Applicant:	Harman International Industries, Inc.
Address of Applicant:	8500 Balboa Boulevard, Northridge, California, 91329, United States
Manufacturer:	Harman International Industries, Inc.
Address of Manufacturer:	8500 Balboa Boulevard, Northridge, California, 91329, United States
Factory:	Guangzhou Panyu Juda Car Audio Equipment Co., Ltd
Address of Factory:	NO.5 Building, No.139, Zhouxing Street, Dongchong Town, Nansha District, Guangzhou City, Guangdong Province, China
Equipment Under Test (EUT):
EUT Name:	Smart Speaker
Model No.:	VIRTUO
Trade Mark:	harman/kardon
Standard(s) :	47 CFR Part 15, Subpart E 15.407(h)(2)
Date of Receipt:	2023-06-16
Date of Test:	2023-06-19 to 2023-06-21
Date of Issue:	2023-06-25
Test Result:	Pass*

* In the configuration tested, the EUT complied with the standards specified above.

Keny. Ku

Keny Xu EMC Laboratory Manager



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		Revision Record		
Version	Chapter	Date	Modifier	Remark
01		2023-06-25		Original

Authorized for issue by:		
	Benson Wang	
	Benson Wang/Project Engineer	
	Eric Fu	
	Eric Fu/Reviewer	



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Test Summary 2

Radio Spectrum Matter Part						
ltem	Standard	Method	Requirement	Result		
Non-occupancy		KDB 905462 D02	KDB 905462 D02	Pass		
period		Section 7.8.3	Section 5.1	F d 5 5		
Channel Move Time	47 CFR Part 15,	KDB 905462 D02	KDB 905462 D02	Deee		
	Subpart E 15.407(h) (2)	Section 7.8.3	Section 5.1	Pass		
Channel Closing		KDB 905462 D02	KDB 905462 D02	Dasa		
Transmission Time		Section 7.8.3	Section 5.1	Pass		

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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4 General Information

4.1	Details of E.U.T.	
	Power supply:	AC 100-240 V, 50/60 Hz, 45 W
	Cable(s):	AC mains ports with unshielded cables (2m)
		Aux in ports
		LAN ports
		Type C ports
	Test Voltage:	AC 120 V, 60 Hz
		U-NII-1: 5180-5240MHz (4 Channels);
	Operation Frequency/ Number of channels	U-NII-2A: 5260-5320MHz (4 Channels);
	(20MHz):	U-NII-2C: 5500-5700MHz (11 Channels);
	, , , , , , , , , , , , , , , , , , ,	U-NII-3: 5745-5825MHz (5 Channels)
	Operation Frequency/	U-NII-1: 5190-5230MHz (2 Channels);
	Operation Frequency/ Number of channels	U-NII-2A: 5270-5310MHz (2 Channels);
	(40MHz):	U-NII-2C: 5510-5670MHz (5 Channels);
		U-NII-3: 5755-5795MHz (2 Channels)
	Operation Frequency/ Number of channels	U-NII-1: 5210MHz (1 Channel); U-NII-2A: 5290MHz (1 Channels);
	(80MHz):	U-NII-2C: 5530-5610MHz (2 Channels); U-NII-3: 5775MHz (1 Channel)
		802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK);
	Modulation Type:	802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM);
	Modulation Type:	802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM);
		802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
		802.11a/n(HT20)/ac(HT20)/ax(HEW20): 20MHz;
	Channel Spacing:	802.11n(HT40)/ac(HT40)/ax(HEW40): 40MHz;
		802.11ac(HT80)/ax(HEW80): 80MHz
	DFS Function:	Slave without Radar detection
	TPC Function:	Without TPC function
	Antenna Type:	Integral Antenna
	Antenna Gain:	2.85 dBi for antenna 0, 2.92 dBi for antenna 1
	Remark:	Two antennas can simultaneous transmission
	Antenna Number:	2 n in this spatian is provided by the applicant or manufacturar. SCS is not lisk
	Lomark' I ha intermatio	n in this socian is provided by the applicant or manufacturer. SCS is not ligh

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

	Description	Manufacturer	Model No.	Serial No.
N	ote Book Computer	LENOVO	ThinkPad T490	PF1D1MVJ





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4.3 Test Location

All tests were performed at: SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057. No tests were sub-contracted.

4.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006. IC#: 4620C.

4.5 Deviation from Standards

None

4.6 Abnormalities from Standard Conditions

None



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5 Equipment List

Channel Move Time					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	AUDIX	N/A	SEM001-08	2022-05-14	2025-05-13
	KEYSIGHT	N0010A	SEM004-09	2022-04-01	2023-03-31
EXA Signal Analyzer	KE I SIGHT	N9010A	SEI0004-09	2023-03-31	2024-03-30
Signal Generator	KEYSIGHT	N5171B	SEM006-13	2023-03-20	2024-03-19
MXG Vector Signal Generator	KEYSIGHT	N5182A	SEM006-14	2023-03-20	2024-03-19
ESG Vector Signal Generator	KEYSIGHT	E4438C	SEM006-15	2022-09-20	2023-09-19
DC Power Supply	KEYSIGHT	E3642A	SEM011-07	2023-03-21	2024-03-20
Manual Stan Attanuator	KEYSIGHT	8494B	SEM021-05	2022-04-01	2023-03-31
Manual Step Attenuator	KETSIGHT	0494D	3EIVI021-05	2023-03-31	2024-03-30
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2022-04-01	2023-03-31
	KE I SIGITI		SLIM021-00	2023-03-31	2024-03-30
Power Sensor	TST PASS	TSPS2023R	SEM009-22	2022-09-21	2023-09-20
Power Sensor	TST PASS	TSPS2023R	SEM009-23	2022-09-21	2023-09-20
Power Sensor	TST PASS	TSPS2023R	SEM009-24	2022-09-21	2023-09-20
Power Sensor	TST PASS	TSPS2023R	SEM009-25	2022-09-21	2023-09-20
Programmable Temperature&Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20
Universal Radio Communication Tester	Rohde&Schwarz	CMW500	SEM010-08	2023-03-20	2024-03-19
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM028-01	2022-07-08	2023-07-07



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Channel Closing Transmission Time					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	AUDIX	N/A	SEM001-08	2022-05-14	2025-05-13
EVA Signal Analyzar	KEYSIGHT	N9010A	SEM004-09	2022-04-01	2023-03-31
EXA Signal Analyzer	KETSIGHT	N9010A	SEIVI004-09	2023-03-31	2024-03-30
Signal Generator	KEYSIGHT	N5171B	SEM006-13	2023-03-20	2024-03-19
MXG Vector Signal Generator	KEYSIGHT	N5182A	SEM006-14	2023-03-20	2024-03-19
ESG Vector Signal Generator	KEYSIGHT	E4438C	SEM006-15	2022-09-20	2023-09-19
DC Power Supply	KEYSIGHT	E3642A	SEM011-07	2023-03-21	2024-03-20
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2022-04-01	2023-03-31
Manual Step Attenuator	RETSIGNT	0494D	3EIVI021-05	2023-03-31	2024-03-30
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2022-04-01	2023-03-31
Manual Step Attenuator	RETSIGHT	04300	SEIVI021-00	2023-03-31	2024-03-30
Power Sensor	TST PASS	TSPS2023R	SEM009-22	2022-09-21	2023-09-20
Power Sensor	TST PASS	TSPS2023R	SEM009-23	2022-09-21	2023-09-20
Power Sensor	TST PASS	TSPS2023R	SEM009-24	2022-09-21	2023-09-20
Power Sensor	TST PASS	TSPS2023R	SEM009-25	2022-09-21	2023-09-20
Programmable Temperature&Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20
Universal Radio Communication Tester	Rohde&Schwarz	CMW500	SEM010-08	2023-03-20	2024-03-19
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM028-01	2022-07-08	2023-07-07

General used equipment						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2022-09-04	2023-09-03	
Humidity/ Temperature Indicator	Anymetre	TH101B	SEM002-09	2022-09-04	2023-09-03	
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-23	2024-03-22	



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6 Radio Spectrum Matter Test Results

6.1 Non-occupancy period

Test Requirement	KDB 905462 D02 Section 5.1
Test Method:	KDB 905462 D02 Section 7.8.3

Limit:

		Applicability		
Test item	Limit	Master Device or client with Radar Detection	Client without Radar Detection	
Non-occupancy period	Minimum 30 minutes	Yes	Not required	
Channel Availability Check Time	60 seconds	Yes	Not required	
Channel Move Time	10 seconds	Yes	Yes	
	See Note 1.	165	Tes	
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.	Yes	Yes	
	See Notes 1 and 2.			
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required	

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.

6.1.1 E.U.T. Operation

Operating Environment:

· -						
Temperature:	24.9 °C	Humidity:	68.7 % RH	Atmospheric Pressure:	1008	mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Descript	tion						
Final test	09	Normal device.	operating_Keep	the	EUT	communication	with	the	companion



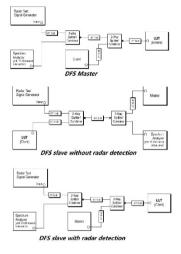
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6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.

2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.

3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.

4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.

5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.

6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.

7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) = S (12000ms) / B (4000); where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms)= N X Dwell (0.3ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.

8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details



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6.2 Channel Move Time

Test Requirement	KDB 905462 D02 Section 5.1
Test Method:	KDB 905462 D02 Section 7.8.3

Limit:

		Applicability		
Test item	Limit	Master Device or client with Radar Detection	Client without Radar Detection	
Non-occupancy period	Minimum 30 minutes	Yes	Not required	
Channel Availability Check Time	60 seconds	Yes	Not required	
Channel Move Time	10 seconds See Note 1.	Yes	Yes	
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes	
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required	

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.

6.2.1 E.U.T. Operation

Operating Environment:

Temperature:	24.9 °C	Humidity:	68.7 % RH	Atmospheric Pressure:	1008	mbar
2 Test Made Desc						

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Descrip	tion						
Final test	09	Normal device.	operating_Keep	the	EUT	communication	with	the	companion



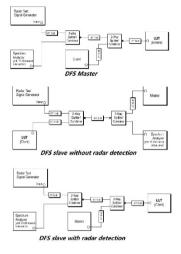
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6.2.3 Test Setup Diagram



6.2.4 Measurement Procedure and Data

1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.

2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.

3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.

4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.

5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.

6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.

7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) = S (12000ms) / B (4000); where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms)= N X Dwell (0.3ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.

8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details



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6.3 Channel Closing Transmission Time

Test Requirement	KDB 905462 D02 Section 5.1
Test Method:	KDB 905462 D02 Section 7.8.3

Limit:

		Applicability		
Test item	Limit	Master Device or client with Radar Detection	Client without Radar Detection	
Non-occupancy period	Minimum 30 minutes	Yes	Not required	
Channel Availability Check Time	60 seconds	Yes	Not required	
Channel Move Time	10 seconds See Note 1.	Yes	Yes	
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.	Yes	Yes	
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.	Yes	Not required	

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.

6.3.1 E.U.T. Operation

Operating Environment:

Temperature:	24.9 °C	Humidity:	68.7 % RH	Atmospheric Pressure:	1008	mbar
Temperature:	24.9 °C	Humidity:	68.7 % RH	Atmospheric Pressure:	1008	mb

6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	09	Normal operating_Keep the EUT communication with the companion device.



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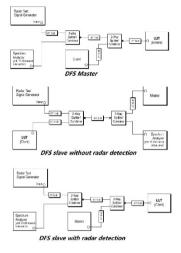
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6.3.3 Test Setup Diagram



6.3.4 Measurement Procedure and Data

1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.

2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.

3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.

4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.

5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.

6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.

7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) = S (12000ms) / B (4000); where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms)= N X Dwell (0.3ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.

8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Please Refer to Appendix for Details



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7 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for SZCR2306001904AT



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8 Appendix

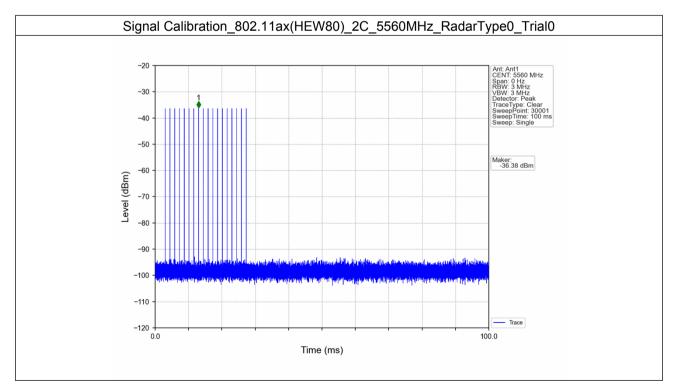
1. Signal Calibration

1.1 SC

1.1.1 Test Result

Band: 2C										
Mode Bandwidth	Frequency	Rada	r Signal	Signal Calibra	ition	Verdict				
Mode	(MHz)	(MHz)	Туре	Trial Id	Result	Limit	verdict			
			0	0	Refer To Test (Graph	Pass			
		1	0	Refer To Test Graph		Pass				
			2	0	Refer To Test (Graph	Pass			
802.11ax (HEW80)	80	5560	3	0	Refer To Test (Graph	Pass			
			4	0	0 Refer To Test Graph		Pass			
			5	0	Refer To Test Graph		Pass			
			6	0	Refer To Test (Graph	Pass			

1.1.2 Test Graph





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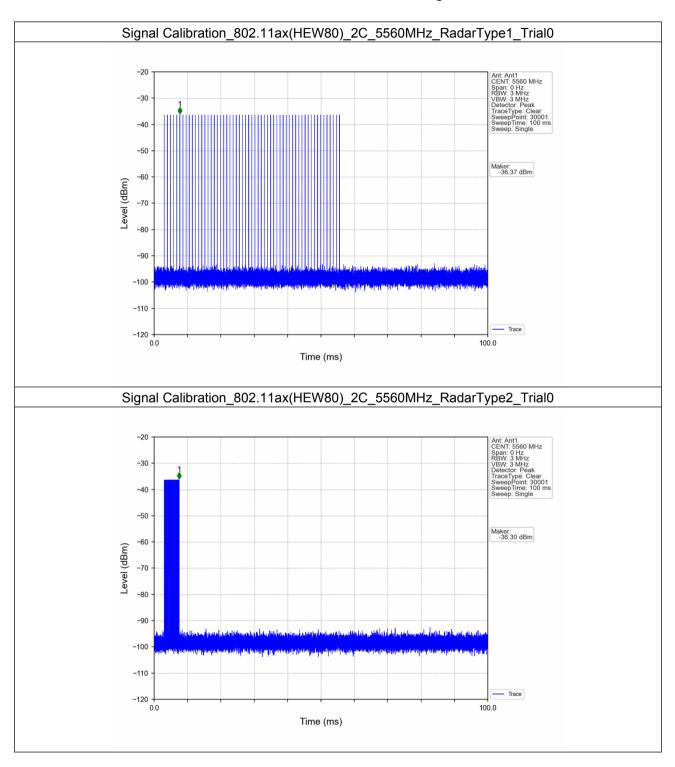
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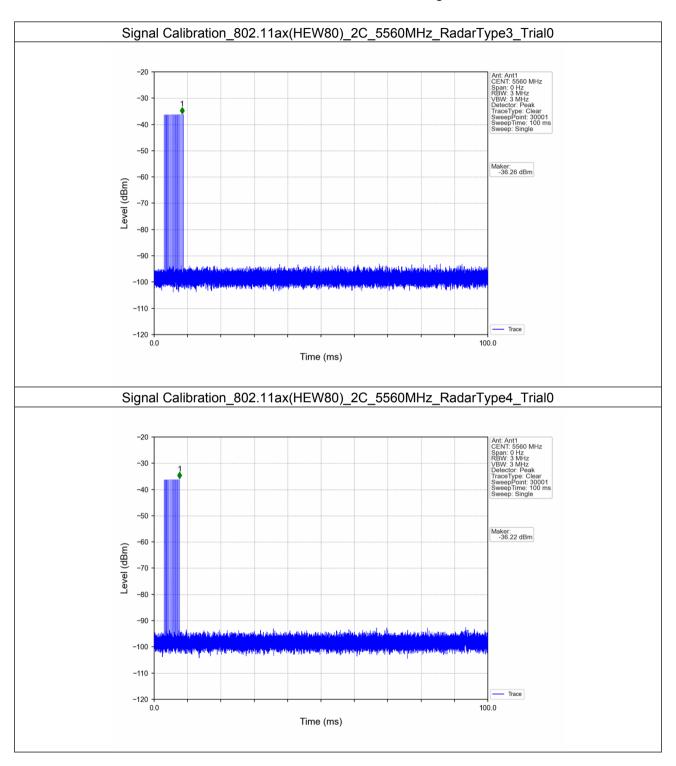
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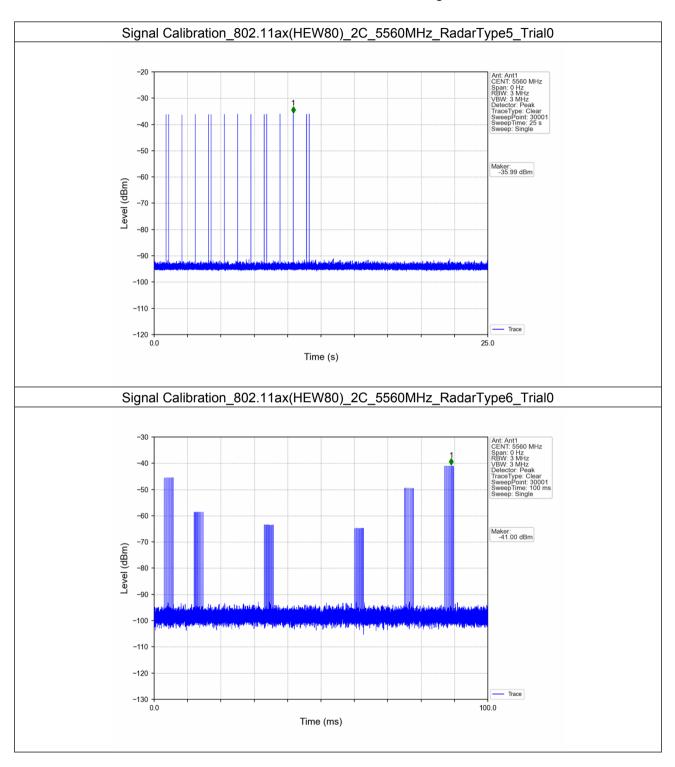
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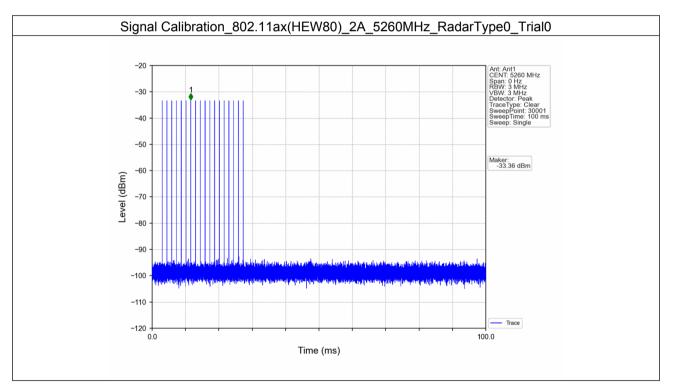
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1.2 SC

1.2.1 Test Result

Band: 2A										
Bandwidth	Frequency	Radar Signal		Signal Calibra	Verdict					
Mode	(MHz)	(MHz)	Туре	Trial Id	Result	Limit	verdict			
			0	0	Refer To Test (Graph	Pass			
		1	0	Refer To Test (Refer To Test Graph					
000.44			2	0	Refer To Test (Graph	Pass			
802.11ax (HEW80)	20	5260	3	0	Refer To Test (Graph	Pass			
(112000)			4	0	Refer To Test (Graph	Pass			
			5	0	Refer To Test (Refer To Test Graph				
			6	0	Refer To Test (Graph	Pass			

1.2.2 Test Graph





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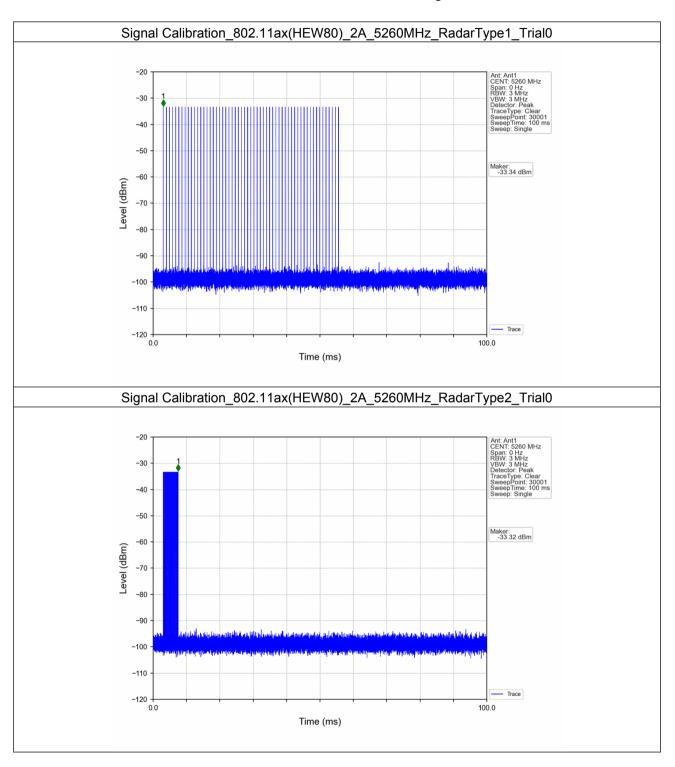
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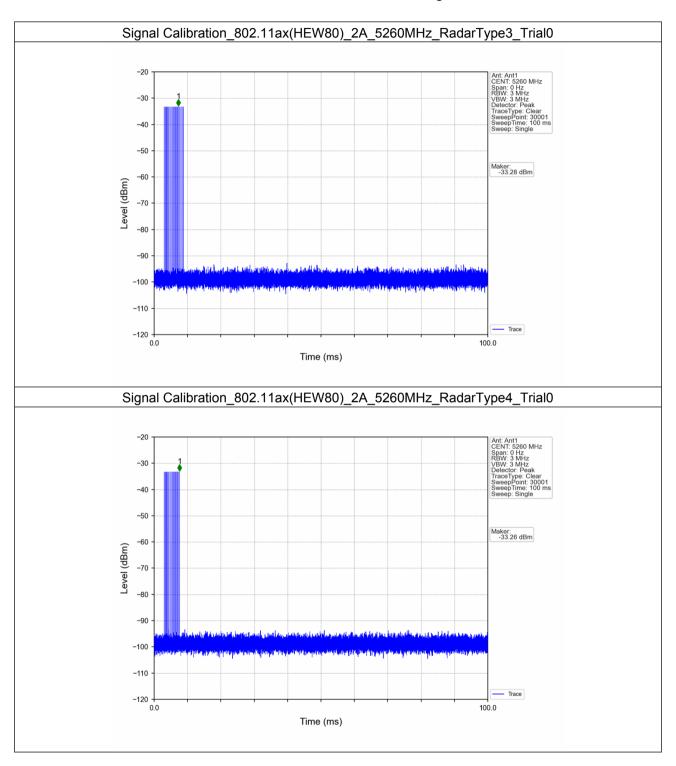
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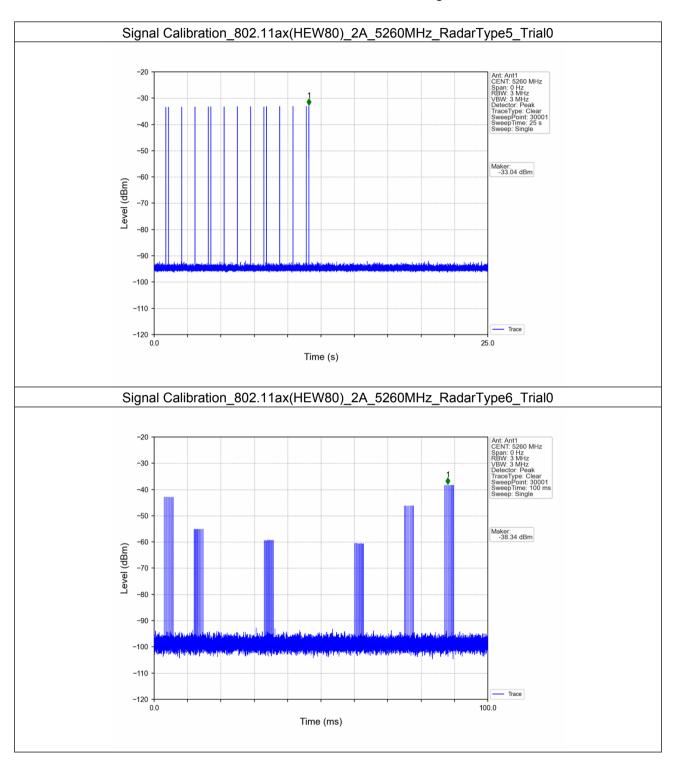
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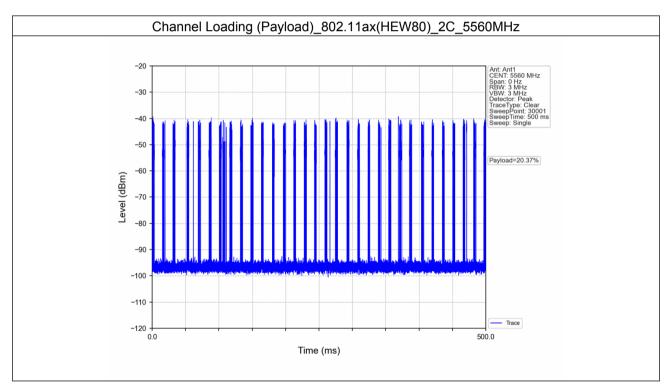
2. Channel Loading (Payload)

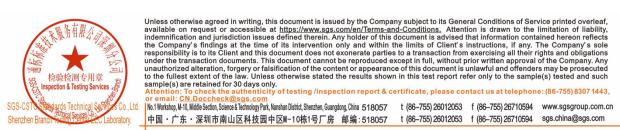
2.1 Payload

2.1.1 Test Result

Band: 2C						
Mode	Bandwidth	Frequency (MHz)	Channel Loading (Payload) (%)		Vardiat	
	(MHz)		Result	Limit	Verdict	
802.11ax (HEW80)	80	5560	20.37	>=17	Pass	

2.1.2 Test Graph







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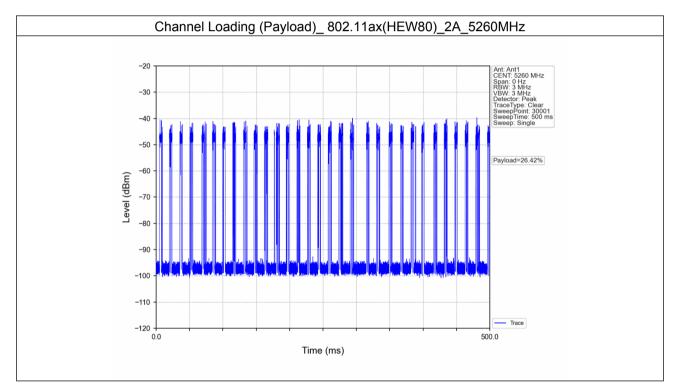
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2.2 Payload

2.2.1 Test Result

Band: 2A						
Mada	Bandwidth	Frequency (MHz)	Channel Loading (Payload) (%)		\/ardiat	
Mode	(MHz)		Result	Limit	Verdict	
802.11ax (HEW80)	80	5260	26.42	>=17	Pass	

2.2.2 Test Graph







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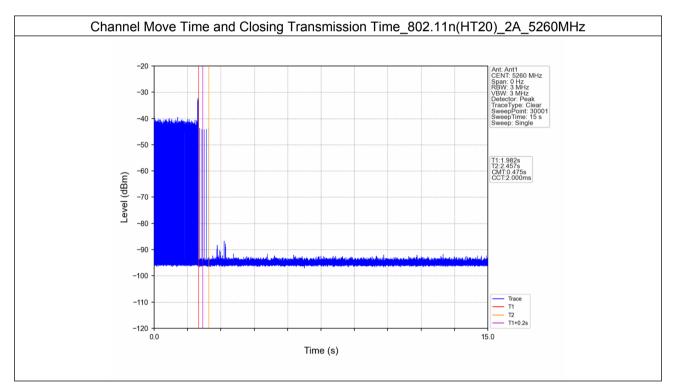
3. Channel Move Time and Closing Transmission Time

3.1 CMT CTT

3.1.1 Test Result

Band: 2A						
Mada	Bandwidth (MHz)	Frequency (MHz)	Channel M	Vordiat		
Mode			Result	Limit	Verdict	
			0.475 s	<=10 s	Pass	
802.11ax	0 5000	Closing Transmission Time		Vardiat		
(HEW80)	80	0) 80 5290 -	Result	Limit	Verdict	
			0.002 s	<=60 ms	Pass	

3.1.2 Test Graph





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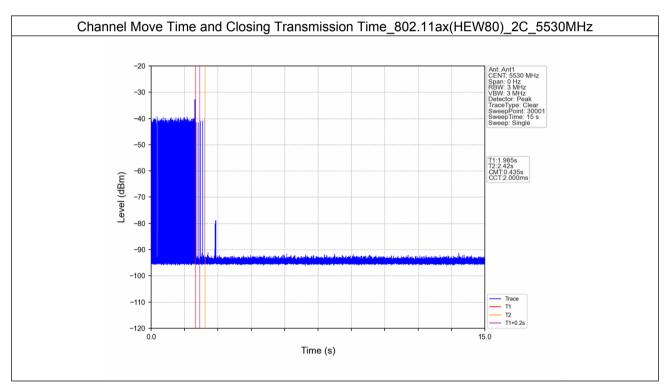
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3.2 CMT_CTT

3.2.1 Test Result

Band: 2C						
Mode	Bandwidth (MHz)	Frequency (MHz)	Channel M	Vardiat		
			Result	Limit	Verdict	
802.11ax (HEW80)			0.435 s	<=10 s	Pass	
	80	5520	Closing Trans	smission Time	Verdict	
	80	5530	Result	Limit		
			0.002 s	<=60 ms	Pass	

3.2.2 Test Graph





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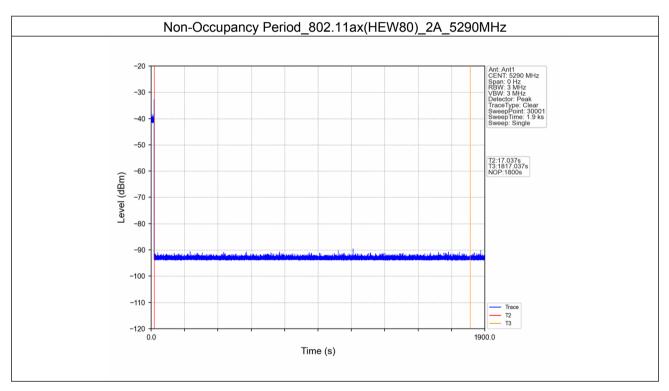
4. Non-Occupancy Period

4.1 Period

4.1.1 Test Result

Band: 2A						
Mode	Bandwidth (MHz)	Frequency (MHz)	Non-Occupancy Period		Vardiat	
			Result	Limit	Verdict	
802.11ax (HEW80)	80	5290	1800 s	>=1800 s	Pass	

4.1.2 Test Graph





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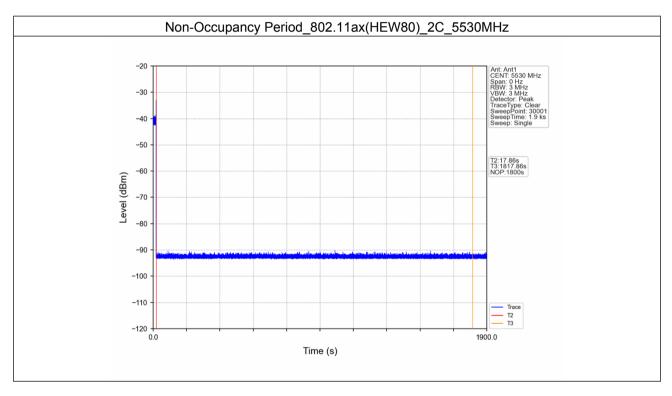
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4.2 Period

4.2.1 Test Result

Band: 2C						
Mode	Bandwidth (MHz)	Frequency (MHz)	Non-Occupancy Period		Vardiat	
			Result	Limit	Verdict	
802.11 ax (HEW80)	80	5530	Refer To Test Graph		Pass	

4.2.2 Test Graph



- End of the Report -

