

Report No.: GZCR240100007505 EMC-TRF-01 Rev 1.1

> 1 of 31 Page: FCC ID: MNJ-MO191

TEST REPORT

GZCR2401000075AT **Application No.:**

Applicant: DOREL JUVENILE GROUP

Address of Applicant: 2525 State Street Columbus Indiana United States

DOREL JUVENILE GROUP Manufacturer:

Address of Manufacturer: 2525 State Street Columbus Indiana United States Factory: Kaixin Guangdian Company Limited. Dongguan branch

Address of Factory: Room 501, Building 1, Xuyu Science Park, No.1 Xuyu Road, Chang'an

Town, Dongguan City, Guangdong Province. China

Product Name: CryAssist Audio Monitor

Model No.: MO191 Trade Mark: MAXI-COSI

47 CFR Part 15, Subpart E 15.407 (h)(2) Standard(s):

Date of Receipt: 2024-01-18

Date of Test: 2024-01-22 to 2024-03-06

2024-03-18 Date of Issue:

Pass* **Test Result:**

Uday Liu

Manager

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



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Revision Record				
Version	Report No.	Date	Remark	
01	GZCR240100007505	2024-03-18	Original	

Authorized for issue by:			
	Jim Li		
	Jim Li/Project Engineer		
	vius cui		
	Vico Cui/Reviewer	_	



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Test Summary

Radio Spectrum Matter Part						
Item	Standard	Method	Requirement	Result		
Non-occupancy period		KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass		
Channel Move Time	47 CFR Part 15, Subpart E 15.407(h)(2)	KDB 905462 D02 Section 7.8.3	KDB 905462 D02 Section 5.1	Pass		
Channel Closing Transmission Time	13.407 (11)(2)	KDB 905462 D02 Section 7.8.3	KDB 905462 D02 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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General Information

4.1 Details of E.U.T.

Power supply: DC 5 V powered by AC/DC adapter as below:

Model: MYX-0501500LUS

Input: AC 100-240 V, 50/60Hz, 0.5A max

Output: DC 5 V, 1.5 A

Test Voltage: AC 120 V, 60 Hz

Cable(s): For main unit:

> DC input ports For AC/DC adapter:

AC plug;

DC output cables (Unshielded, 1.4m)

5180-5240MHz (4 Channels); U-NII-2A: 5260-5320MHz (4 Channels); U-Operation NII-2C: 5500-5700MHz (11 Channels); U-NII-3: 5745-5825MHz (5

Frequency/Number of

channels (20MHz): Channels)

Operation

Frequency/Number of

channels/(40MHz):

Operation

Frequency/Number of channels (80MHz):

NII-2C: 5510-5670MHz (5 Channels); U-NII-3: 5755-5795MHz (2 Channels)

5190-5230MHz (2 Channels); U-NII-2A: 5270-5310MHz (2 Channels); U-

5210MHz (1 Channel); U-NII-2A: 5290MHz (1 Channels); U-NII-2C: 5530-5610MHz (2 Channels); U-NII-3: 5775MHz (1 Channel)

OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, Modulation Type:

16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM,

256QAM)

Channel Spacing: 802.11a/n/ac 20: 20MHz; 802.11n/ac 40: 40MHz; 802.11ac 80: 80MHz

DFS Function: Slave without Radar detection

TPC Function: Without TPC function Antenna Type: Integral Antenna

Antenna Gain: 4.07 dBi max according to antenna specification

Antenna Number:

4.2 Description of Support Units

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

4.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663

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No tests were sub-contracted.



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4.4 Test Facility

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

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

• SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

• ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.5 Deviation from Standards

None

4.6 Abnormalities from Standard Conditions

None



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Equipment List 5

Non-occupancy period						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
MI CABLE	SGS-EMC	M8.0	EMC2137	2023-11-02	2025-11-01	
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2023-08-23	2024-08-22	
MXG Vector Signal Generator	Keysight	N5182B	EMC2216	2023-11-10	2024-11-09	
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2023-08-23	2024-08-22	
Test Software	TST	V2.0	GZE100-78	N/A	N/A	

Channel Move Time						
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date	
MI CABLE	SGS-EMC	0.8M	EMC2137	2023-11-02	2025-11-01	
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2023-08-23	2024-08-22	
MXG Vector Signal Generator	Keysight	N5182B	EMC2216	2023-11-10	2024-11-09	
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2023-08-23	2024-08-22	
Test Software	TST	V2.0	GZE100-78	N/A	N/A	

Channel Closing Transmission Time						
Equipment Manufacturer Model No. Inventory No. Cal Date						
MI CABLE	SGS-EMC	M8.0	EMC2137	2023-11-02	2025-11-01	
EXA Signal Analyzer (10Hz-44GHz)	Keysight	N9010A	EMC2138	2023-08-23	2024-08-22	
MXG Vector Signal Generator	Keysight	N5182B	EMC2216	2023-11-10	2024-11-09	
4X4 Power sensor Unit	TST	TSPS2023R	EMC2226	2023-08-23	2024-08-22	
Test Software	TST	V2.0	GZE100-78	N/A	N/A	

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2023-06-11	2024-06-10



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Radio Spectrum Technical Requirement 6

Non-occupancy period

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

Limit:

		Applic	ability
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.

6.1.1 E.U.T. Operation

Operating Environment:

20.3 °C Temperature: Humidity: 57.0 % RH Atmospheric Pressure: 1014 mbar

6.1.2 Test Mode Description

Mode Pre-scan /

Description Final test Code

Normal operating Keep the EUT communication with the companion Final test 09

device.



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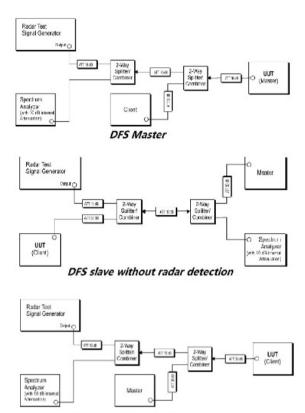
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6.1.3 Test Setup Diagram



DFS slave with radar detection



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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:

		Applica	bility
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: 20.3 °C Humidity: 57.0 % RH Atmospheric Pressure: 1014 mbar

6.2.2 Test Mode Description

Mode Pre-scan /

Description Final test Code

Normal operating Keep the EUT communication with the companion Final test 09

device.



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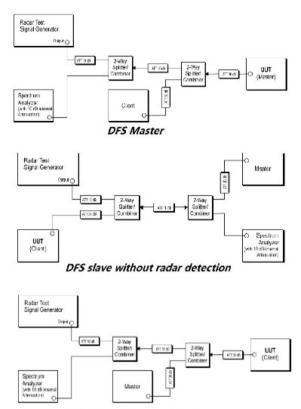
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6.2.3 Test Setup Diagram



DFS slave with radar detection



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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:

		Applica	bility
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: 20.3 °C Humidity: 57.0 % RH Atmospheric Pressure: 1014 mbar

6.3.2 Test Mode Description

Mode Pre-scan /

Description Final test Code

Normal operating Keep the EUT communication with the companion Final test 09

device.



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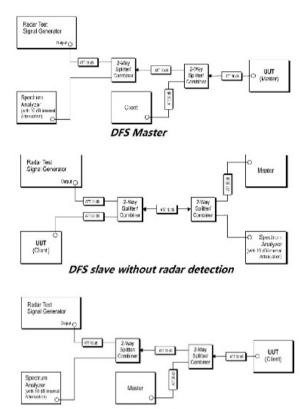
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6.3.3 Test Setup Diagram



DFS slave with radar detection



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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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EUT Constructional Details (EUT Photos) 7

Refer to Appendix - External and Internal Photos for GZCR2401000075AT



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Appendix 8

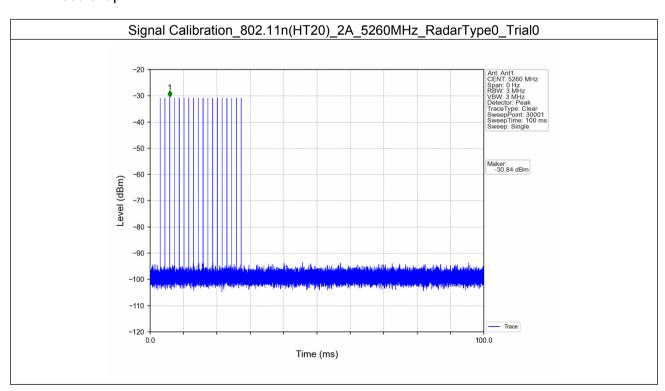
1. Signal Calibration

1.1 SC

1.1.1 Test Result

Band: 2A								
Mada	Bandwidth	Frequency (MHz)	Radar Signal		Signal Calibration		Verdict	
Mode	(MHz)		Туре	Trial Id	Result	Limit	verdict	
		5260	0	0	Refer To Test Graph		Pass	
	20		1	0	Refer To Test Graph		Pass	
000.44			2	0	Refer To Test Graph		Pass	
802.11n (HT20)			3	0	Refer To Tes	t Graph	Pass	
(11120)			4	0	Refer To Test Graph		Pass	
			5	0	Refer To Tes	t Graph	Pass	
			6	0	Refer To Test Graph		Pass	

1.1.2 Test Graph





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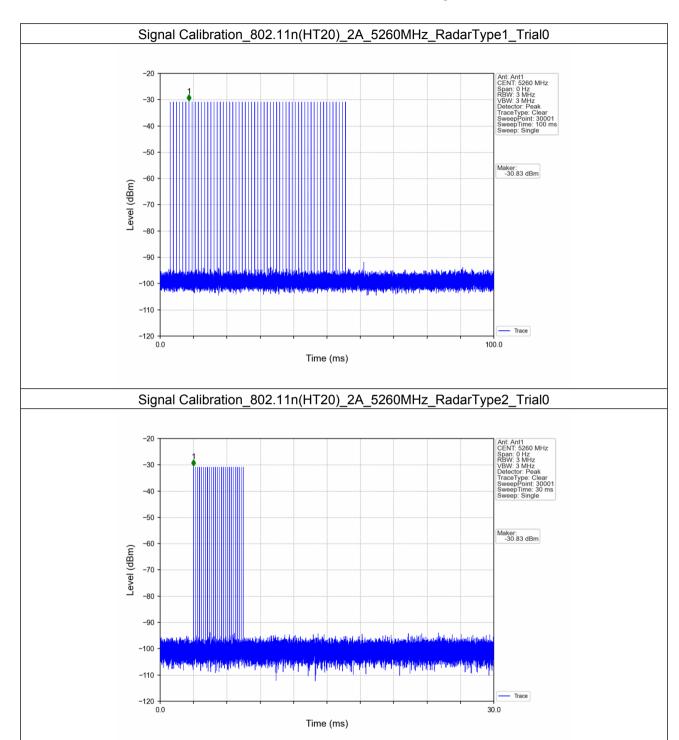
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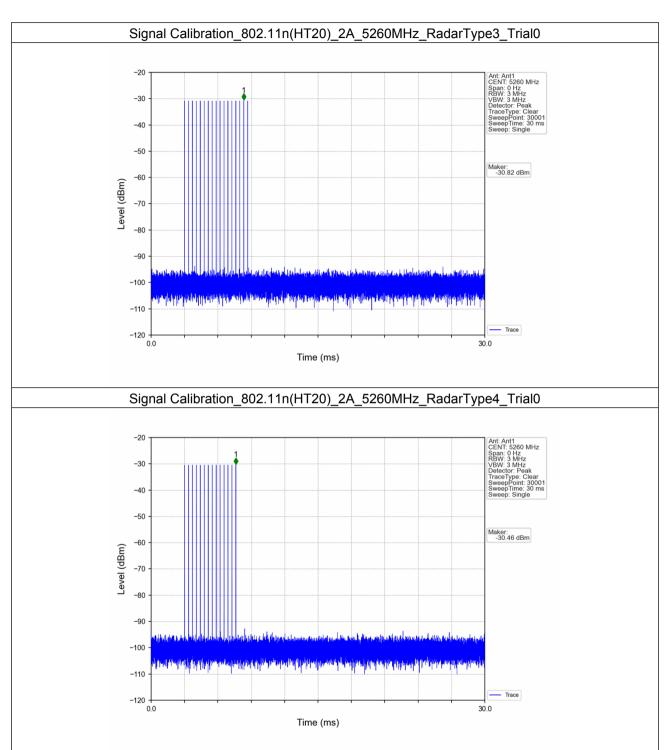
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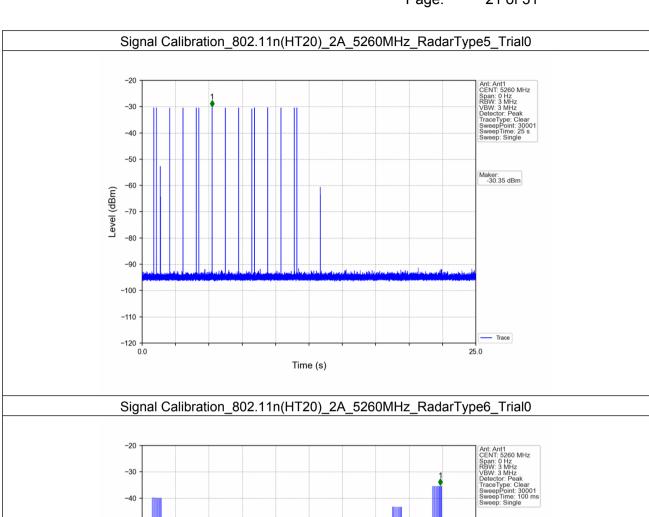
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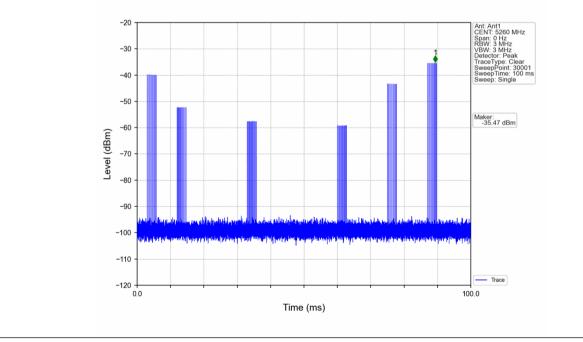
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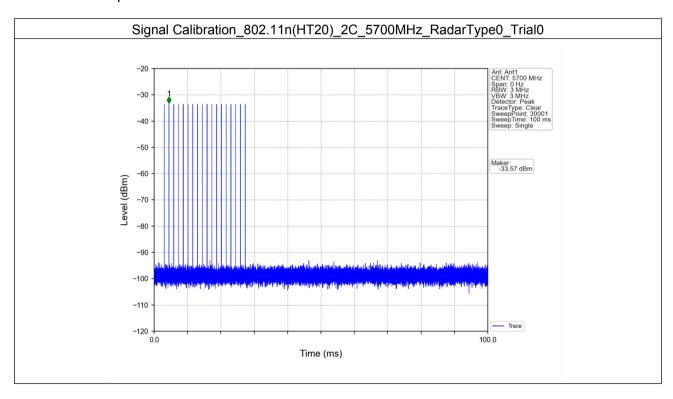
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1.2 SC

1.2.1 Test Result

Band: 2C								
Mode	Bandwidth	Frequency (MHz)	Radar Signal		Signal Calibration		Verdict	
Mode	(MHz)		Туре	Trial Id	Result	Limit	verdict	
		5700	0	0	Refer To Test Graph		Pass	
	20		1	0	Refer To Test Graph		Pass	
000.44			2	0	Refer To Tes	t Graph	Pass	
802.11n (HT20)			3	0	Refer To Tes	t Graph	Pass	
(11120)			4	0	Refer To Test Graph		Pass	
			5	0	Refer To Tes	t Graph	Pass	
			6	0	Refer To Test Graph		Pass	

1.2.2 Test Graph





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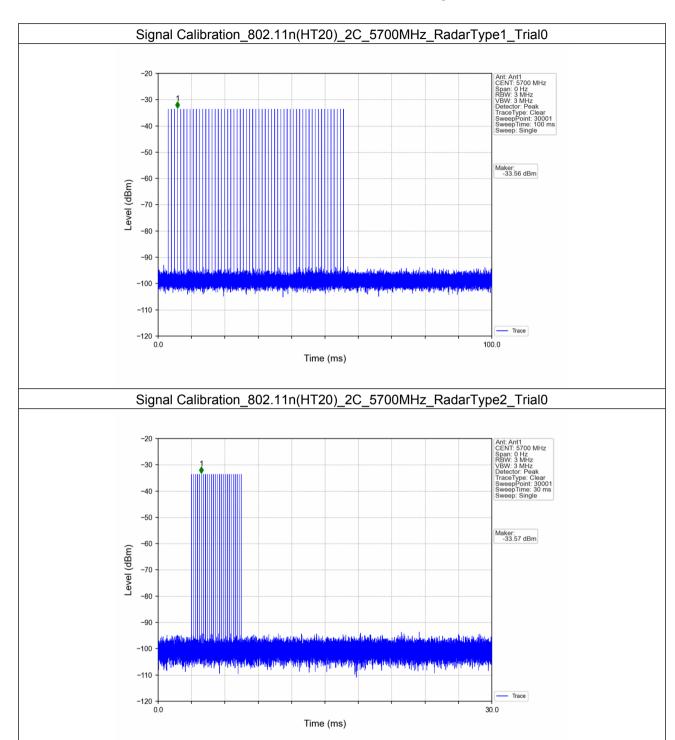
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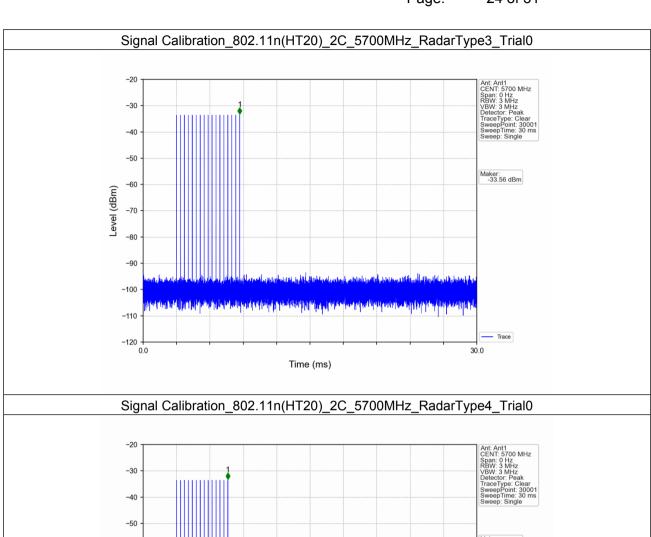
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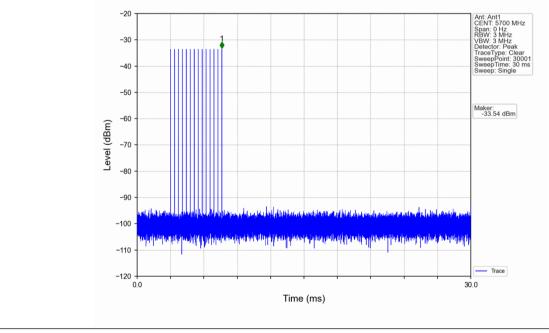
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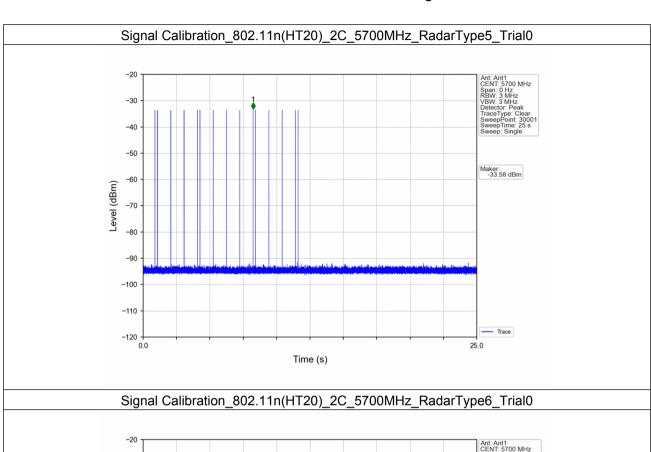
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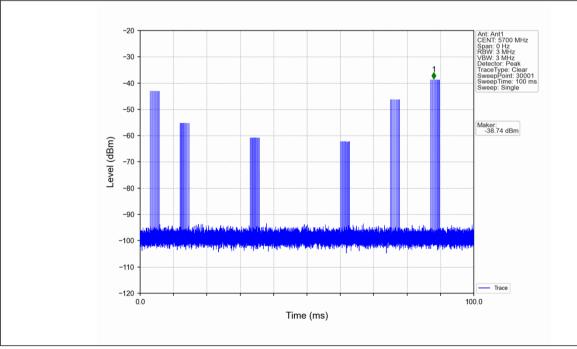
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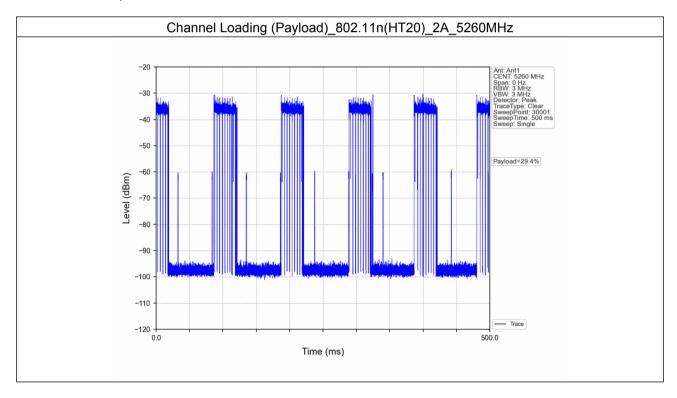
2. Channel Loading (Payload)

2.1 Payload

2.1.1 Test Result

Band: 2A								
Mode	Bandwidth	Frequency	Channel Loadin	g (Payload) (%)	Vordict			
iviode	Mode (MHz) (Result	Limit	Verdict			
802.11n (HT20)	20	5260	29.40	>=17	Pass			

2.1.2 Test Graph





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Report No.: GZCR240100007505

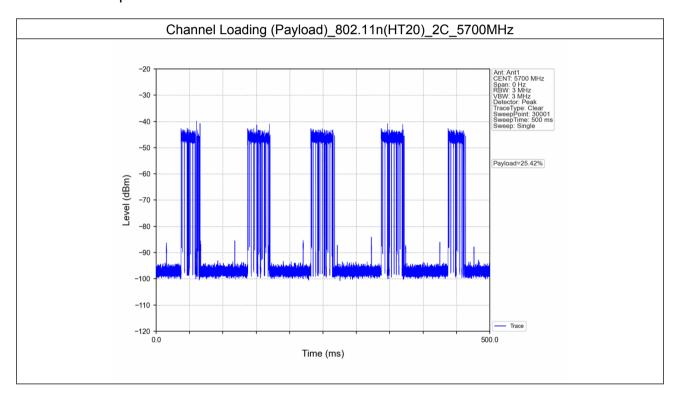
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2.2 Payload

2.2.1 Test Result

Band: 2C								
Mode	Bandwidth	Frequency	Channel Loadin	g (Payload) (%)	Verdict			
Mode	(MHz)	(MHz)	Result	Limit	verdict			
802.11n (HT20)	20	5700	25.42	>=17	Pass			

2.2.2 Test Graph





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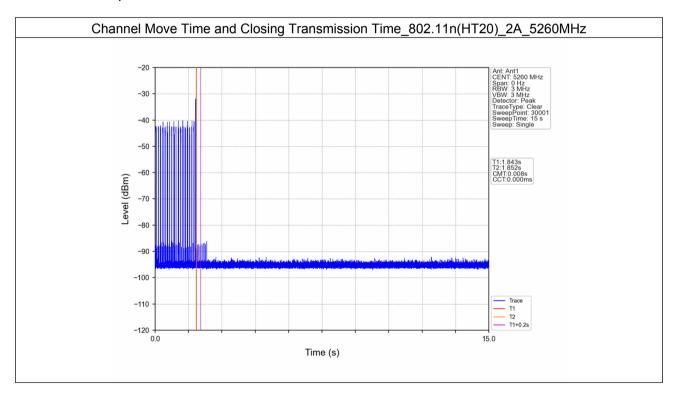
3. Channel Move Time and Closing Transmission Time

3.1 CMT CTT

3.1.1 Test Result

Band: 2A							
Mode	Bandwidth	Frequency	Channel Mo	\/owdiat			
Mode	(MHz)	(MHz)	Result	Limit	Verdict		
		20 5260	0.008 s	<=10s	Pass		
802.11n	20		Closing Trans	smission Time	Vardiat		
(HT20)	20 5260		Result	Limit	Verdict		
		0 s	<=60ms	Pass			

3.1.2 Test Graph





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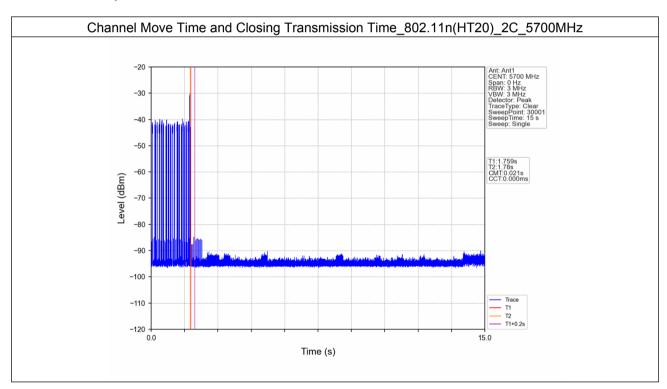
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3.2 CMT CTT

3.2.1 Test Result

Band: 2C							
Mode	Mode Bandwidth (MHz)	Frequency (MHz)	Channel Move Time an Tir	Verdict			
			Result	Limit			
	802.11n (HT20) 20	20 5700	0.021 s	<=10s	Pass		
802.11n			Closing Transmission Time		Verdict		
(HT20)			Result	Limit	verdict		
			0 s	<=60ms	Pass		

3.2.2 Test Graph





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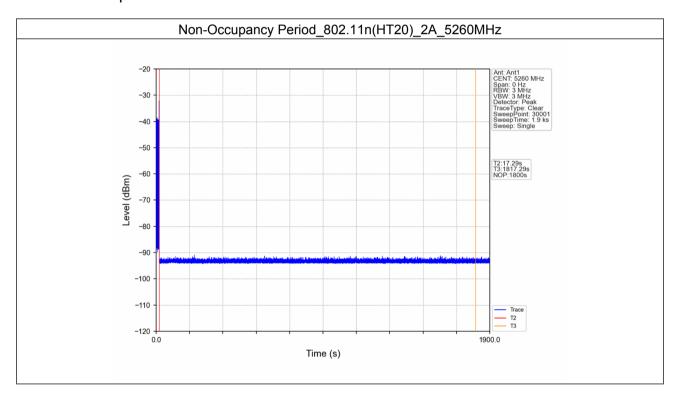
4. Non-Occupancy Period

4.1 Period

4.1.1 Test Result

Band: 2A								
Mada	Bandwidth	Frequency	Non-Occupano	cy Period	Vordint			
iviode	Mode (MHz)		Result	Limit	Verdict			
802.11n (HT20)	20	5260	1800s	>=1800s	Pass			

4.1.2 Test Graph





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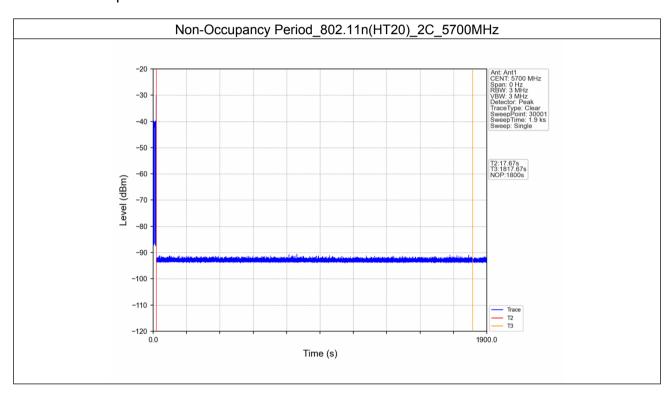
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4.2 Period

4.2.1 Test Result

Band: 2C							
Mode	Bandwidth	Frequency	Non-Occupan	cy Period	Vordict		
iviode	Mode (MHz)		Result	Limit	Verdict		
802.11n (HT20)	20	5700	1800s	>=1800s	Pass		

4.2.2 Test Graph



- End of the Report -



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