

TEST REPORT

Radio Frequency Devices-Intentional Radiators

for

Products Name: STRATACACHE PLAYER

Model No.: Refer to section 2.2

FCC ID: 2BWNQ-SMP-Q-WIV-AP

Report No.: SST2606E069

Issued Date: 2026-6-5

Issued for

Stratacache Asia-Pacific Pte. Ltd.

133 Cecil Street #04-02 Keck Seng Tower Singapore 069535

Issued by

DONGGUAN QIYANG TESTING TECHNOLOGY CO., LTD.

Room 101-1, Building 1, No. 19, Tianxin Butterfly 1st Road, Huangjiang, Dongguan, Guangdong, China

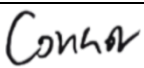
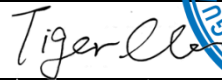
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1. Basic Introduction

Applicant's name :	Stratacache Asia-Pacific Pte. Ltd.	
Address	133 Cecil Street #04-02 Keck Seng Tower Singapore 069535	
Manufacturer's name	Stratacache Asia-Pacific Pte. Ltd.	
Address	133 Cecil Street #04-02 Keck Seng Tower Singapore 069535	
Factory name	Stratacache Asia-Pacific Pte. Ltd.	
Address	133 Cecil Street #04-02 Keck Seng Tower Singapore 069535	
Products Name :	STRATACACHE PLAYER	
Model No :	Refer to section 2.2	
Trade Mark	STRATACACHE	
Rating(s) :	Adapter Model: HKA06012050-0A7 Input: 100-240V, 50/60Hz Output: DC 12.0V 5A	
Date of sample receipt :	2026-5-14	
Date of Test :	2026-5-14~2026-6-5	
Standard(s)	FCC CFR Title 47 Part 15.407 KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02	
Tested by (+signature) :	Connor Ma	
Check by (+signature) :	Davis Zhou	
Approved by (+signature) :	Tiger Chen	



2. General description

2.1. EUT description

Products Name	STRATACACHE PLAYER	
Model No.	Refer to section 2.2	
Rating(s)	Adapter Model: HKA06012050-0A7 Input: 100-240V, 50/60Hz Output: DC 12.0V 5A	
SN:	26051313-0101	
Software version.....	V1.0	
Hardware version	FP530V10	
Operation frequency	5250MHz ~ 5350MHz 5470MHz ~ 5725MHz	
TPC Support.....	No	
DFS Type	Slave without radar detection	
Modulation technology	802.11b/g/n/ax	
Supported Bandwidth	20MHz, 40MHz, 80MHz	
Antenna type	External Antenna	
Antenna gain	3.03 dBi	
Cable	Name	Description
	AC line	☐ Shielded ☒ Unshielded ☒ Detachable ☐ Un-detachable ☐ No applicable ☒ Length:0.8m

Note: 802.11ax not support partial RU mode, all test configurations are solely applicable to Full RU.

2.2. Serial model(s) and model difference

Main model(s)	SMP-Q-wIV-AP
Serial model(s)	SMP-R-el-AP, SMP-S-el-AP, SMP-SP-all-AP, SMP-L-el-AP, SMP-DX-all-AP, SMP-QX-wIV-AP, SMP-H-FVI-AP, SMP HX-vI-AP
Model difference	All models were in same PCB design and internal structure. The only difference is model name.

2.3. Auxiliary equipment

Support equipment list			
Description	Manufacturer	Model No.	Serial No.
Notebook PC	HP	ZHAN 66P	/
Router	AUSU	RT-BE88U	MSQ-RTBE7000
Monitor	AOC	U27V4	/

Keyboard	leopard	Q9USB-1	/
Mouse	leopard	Q9USB-2	/
Support cable list			
Description	Specified length(m)	Shielded	Unshielded
/	/	/	/

2.4. Description of test modes

Prescan Operating Mode		
No.	Detailed description of the operating mode	Test voltage
1	Normal operation	AC 120V

Channel List for 802.11					
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
36	5180	100	5500	132	5660
38	5190	102	5510	134	5670
40	5200	104	5520	136	5680
42	5210	106	5530	140	5700
44	5220	108	5540	149	5745
46	5230	110	5550	151	5755
48	5240	112	5560	153	5765
52	5260	116	5580	155	5775
54	5270	118	5590	157	5785
56	5280	120	5600	159	5795
58	5290	122	5610	161	5805
60	5300	124	5620	165	5825
62	5310	126	5630		
64	5320	128	5640		

2.5. Test environmental conditions

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment.		
The climatic conditions during the tests were within the following limits:		
Ambient temperature	Relative humidity	Atmospheric pressure
15 °C ~ 35 °C	30 % ~ 60 %	86 kPa ~ 106 kPa
If explicitly required in the basic standard or applied product standard the climatic values are recorded and documented separately in this test report.		

2.6.Statement of Measurement Uncertainty

Test Item	Uncertainty
Uncertainty for Conducted emissions	3.31 dB
Uncertainty for Radiated emission (9 kHz to 30 MHz)	3.1 dB
Uncertainty for Radiated emission (30 MHz to 1 GHz)	4.53 dB
Uncertainty for Radiated emission (above 1 GHz)	4.80 dB
RF power, conducted	1.08 dB
Power Spectral Density, Conducted	1.46 dB
Spurious Emissions, Conducted	2.94 dB
Occupied bandwidth	57.74 kHz
Measurement Uncertainty Decision Rule Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2023, clause 4.3.3 and 4.3.4.	

2.7.Report modification record

Report No.	Issue Date	Description
SST2606E069	2026-6-5	Original Report

2.8.Test Facility

The test facility is recognized, certified, or accredited by the following organizations:	
A2LA	Certificate No.:7057.01
IC	Company Number: 30419
	CAB identifier: CN0154
Location	DONGGUAN QIYANG TESTING TECHNOLOGY CO., LTD. Room 101-1, Building 1, No. 19, Tianxin Butterfly 1st Road, Huangjiang, Dongguan, Guangdong, China

2.9. Other information

The laboratory responsible for all the information provided in the report, except those information provided by the applicant.

The applicant shall fully responsible for the information they provided.

The report would be invalid without a stamp of test laboratory and the signatures of compiler and approver.

The laboratory has not been responsible for the sampling stage; the test report merely corresponds to the test sample received.

Any objection to the test report shall submitted to the test laboratory within 15 days from the date of receipt of the report.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

2.10. Addition Instructions

Test Software	Normal firmware
Power level setup	default

3. Verdict summary section

Test items	Basics standards	Operational Mode	
		☐ Master Device or Client with Radar Detection	☒ Client Without Radar Detection
DFS Detection Threshold	47 CFR Part 15.407(h) KDB 905462	Y	N
Channel Closing Transmission Time		Y	Y
Channel Move Time		Y	Y
U-NII Detection Bandwidth		Y	N

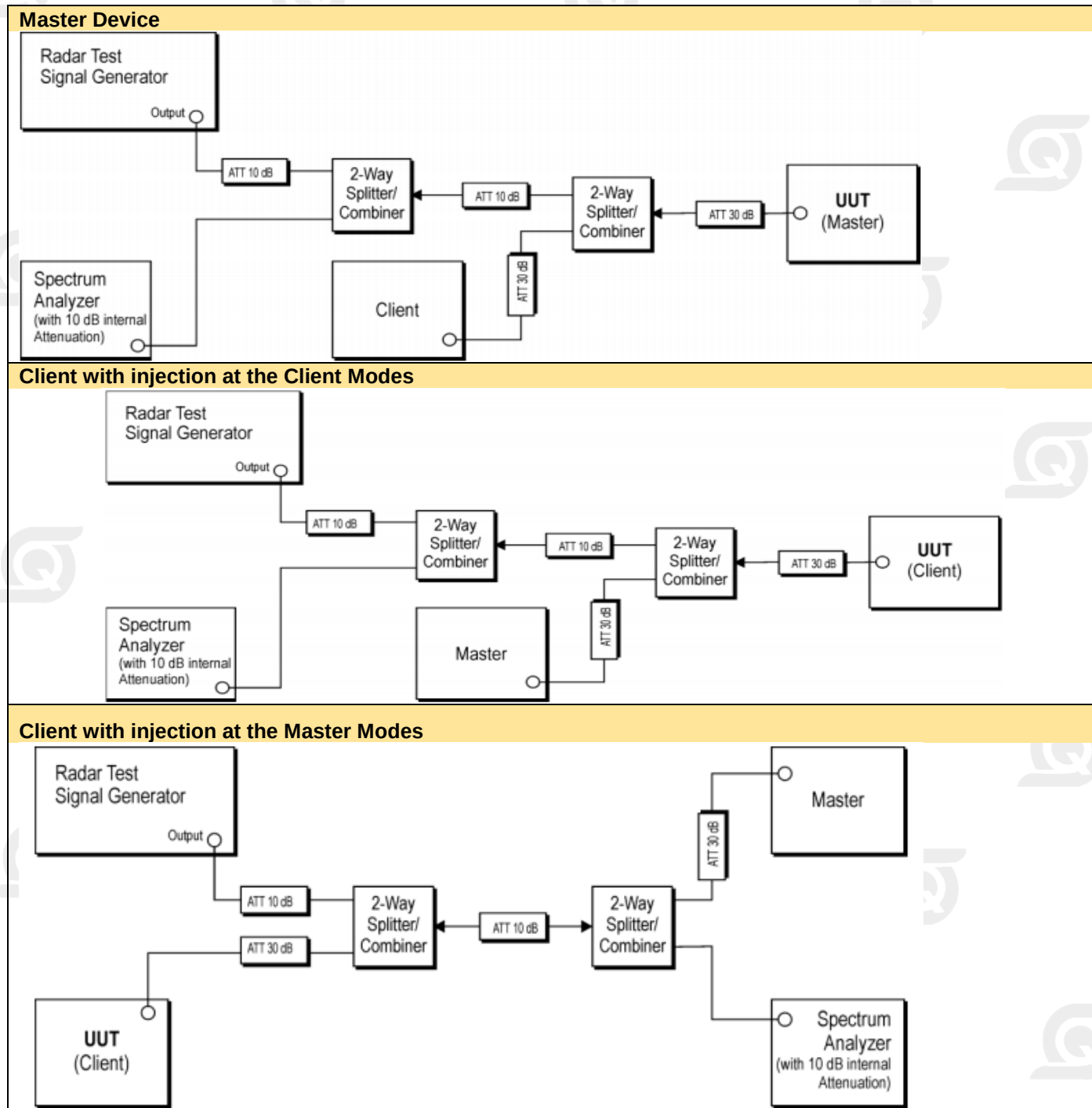
Test case verdicts	
- Test case does not apply to the test object	N/A
- Test object does meet the requirement	P (Pass)
- Test object does not meet the requirement	F (Fail)

4. List of Test Equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal. cycle	Cal. Due
RF conducted					
Spectrum Analyzer	keysight	N9020A	MY51280659	1 year	2027/04/09
Signal Generator	Agilent	N5181A	MY48180054	1 year	2027/04/09
Signal Generator	keysight	N5172B	MY57281610	1 year	2027/04/09
Spectrum Analyzer	R&S	FSV40-N	101791	1 year	2027/04/09
Wideband Radio Communication Tester	R&S	CMW500	123123	1 year	2027/04/09
RF Switch Box	TST PASS	TST V2	/	1 year	2027/04/09
Test Software	TST PASS	TST PASS	V2.0	/	/
Temperature and humidity chamber	Guangdong fenghe	FH-TH-1000	FH24032017	1 year	2027/03/10

5. Technical Requirement and Measurement Data

5.1. Test Configuration Diagram



5.2. DFS Detection Thresholds

DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power 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.

5.3. Response Requirements

DFS Response Requirement Values

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U-NII 99% 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.

5.4. Radar 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 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	Roundup $\left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	60%	30
		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			
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: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, 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 generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

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

The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type waveforms, then each additional waveform must also be unique and not repeated from the previous waveforms.

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

For the Frequency Hopping Radar Type, the same Burst parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by the following algorithm:

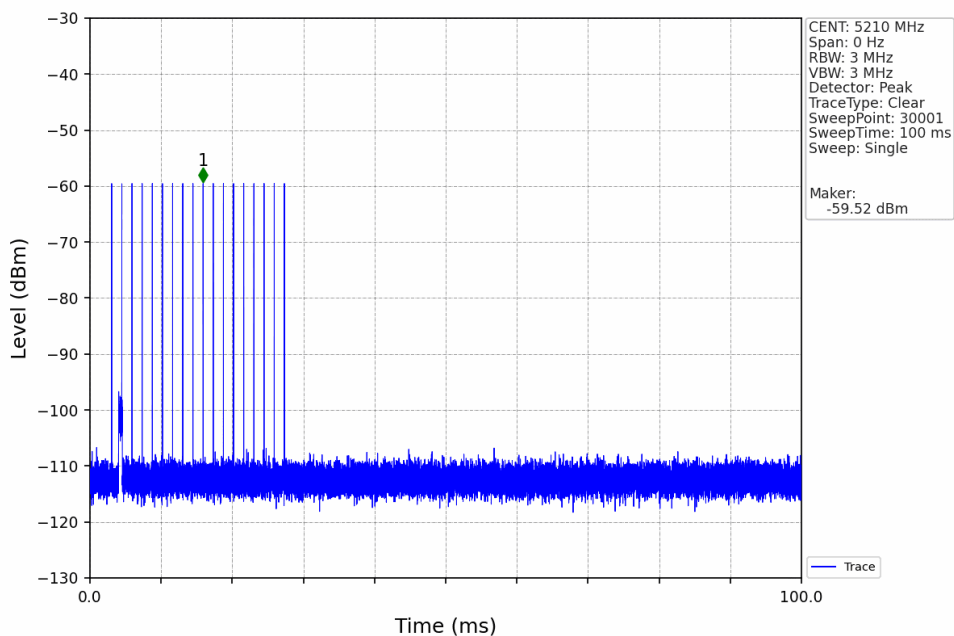
The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724 MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues 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.

6. Test Result

6.1. Radar Calibration

Test Result

Mode	Bandwidth (MHz)	Frequency (MHz)	Radar Signal	
			Type	Trial Id
802.11ax (HEW20)	80	5210	0	0

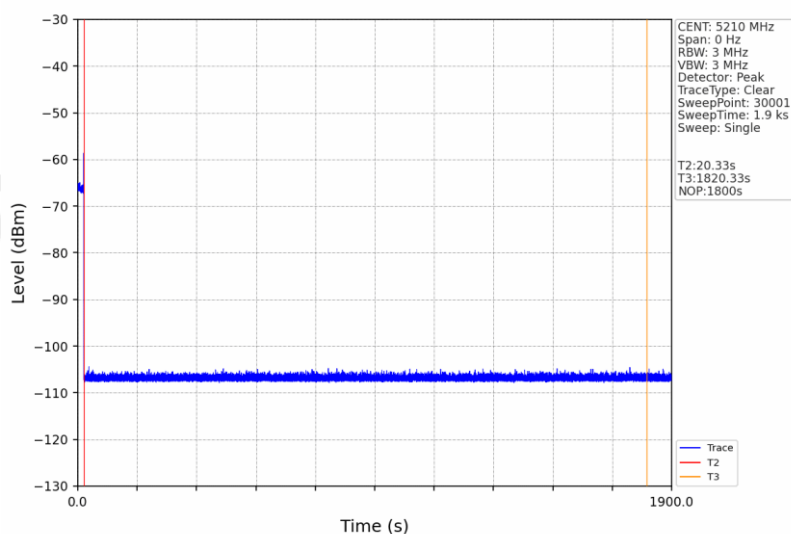
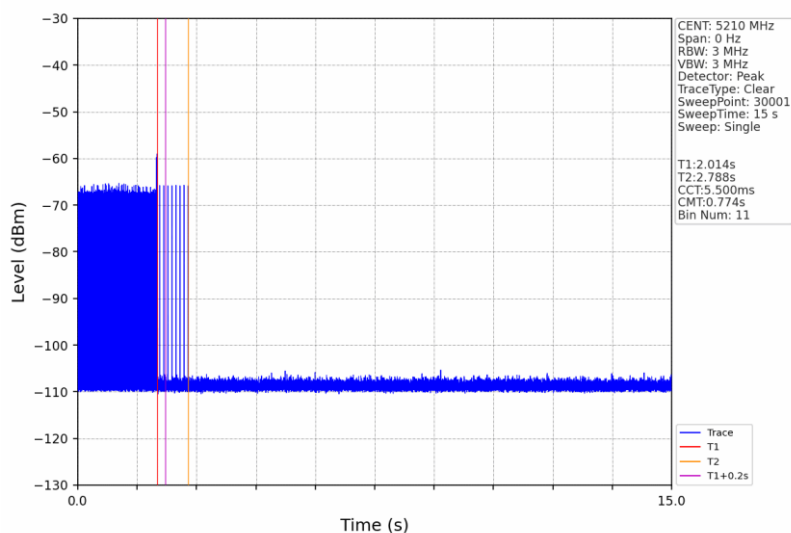


6.2. Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period

Limit	
Channel Move Time	<10s
Channel Closing Transmission Time	<260ms
Non-Occupancy Period	>30min

Test Result

Mode	Bandwidth (MHz)	Frequency (MHz)	Channel Closing Transmission Time (ms)		Channel Move Time (s)		Non-Occupancy Period		Verdict
			Result	Limit	Result	Limit	Result	Limit	
802.11ax (HEW80)	80	5210	5.500	<= 260	0.774	<=10	>30min	>30min	Pass



7. Test setup photo

Refer to appendix for details

8. Photo of the EUT

Refer to appendix for details

*****End of report*****