

TEST REPORT

Product Name : Oasis mini
Model Number : OM0001
FCC ID : 2BFEO-001

Prepared for : Kinetic Oasis LLCs
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19702 USA

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1. TEST RESULT CERTIFICATION

Applicant : Kinetic Oasis LLCs
Address : 254 Chapman Rd, Ste 208 #12440, Newark, Delaware 19702 USA
EUT : Oasis mini
Model Name : OM0001
Trademark : N/A

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
§ 15.247(i), § 2.1093	PASS

The above equipment was tested by EMTEK(DONGGUAN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC § 15.247(i), § 2.1093.

The test results of this report relate only to the tested sample identified in this report

Date of Test : February 20, 2024 to March 19, 2024

Prepared by :

Warren Deng

Warren Deng /Editor

Reviewer :

Tim Dong

Tim Dong /Supervisor

Approve & Authorized Signer :

Sam Lv

Sam Lv / Manager

Modified History

Version	Report No.	Revision Date	Summary
	EDG2402200121E00202R	/	Original Report



2. EUT Specification

Characteristics	Description
Product:	Oasis mini
Model Number:	OM0001
Sample:	2#
Device Type:	2.4G WIFI
Data Rate:	802.11b 802.11g 802.11n(20MHz channel bandwidth) 802.11n(40MHz channel bandwidth)
Modulation:	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;
Operating Frequency Range(s) :	2412-2462MHz for 802.11b/g/n(HT20); 2422-2452MHz for 802.11n(HT40);
Number of Channels:	11 channels for 802.11b/g/n(HT20); 7 Channels for 802.11n(HT40);
Transmit Power Max:	10.02dBm(0.010046 W)
Antenna Gain:	3.87 dBi
Power supply:	AC 110-240V 50-60Hz
Evaluation applied:	☒ MPE Evaluation ☐ SAR Evaluation

3. Test Requirement:

RF EXPOSURE EVALUATION

According to §15.247(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f_{(\text{GHz})}}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR,}^{24} \text{ where}$$

- $f_{(\text{GHz})}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁵
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum *test separation distance* is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval. One antenna is available for the EUT. The minimum separation distance is 5mm.

4. Measurement Result

Antenna gain:
2.4G: 3.87 dBi

802.11b: Antenna A

Channel	Frequency (MHz)	Output Power (dBm)	E.I.R.P (dBm)	Target Power W/tolerance (dBm)	Max tune up power(dBm) tolerance	Max tuneup power(mW) tolerance	Power Density at R=20cm (mW/cm ²)	Power density Limits (mW/cm ²)
1	2412	10.02	13.89	13±1	14	25.12	0.012182	1
6	2437	9.3	13.17	13±1	14	25.12	0.012182	1
11	2462	8.31	12.18	12±1	13	19.95	0.009677	1

802.11g: Antenna A

Channel	Frequency (MHz)	Output Power (dBm)	E.I.R.P (dBm)	Target Power W/tolerance (dBm)	Max tune up power(dBm) tolerance	Max tuneup power(mW) tolerance	Power Density at R=20cm (mW/cm ²)	Power density Limits (mW/cm ²)
1	2412	9.1	12.97	12±1	13	19.95	0.009677	1
6	2437	8.67	12.54	12±1	13	19.95	0.009677	1
11	2462	7.38	11.25	11±1	12	15.85	0.007687	1

802.11n HT20: Antenna A

Channel	Frequency (MHz)	Output Power (dBm)	E.I.R.P (dBm)	Target Power W/tolerance (dBm)	Max tune up power(dBm) tolerance	Max tuneup power(mW) tolerance	Power Density at R=20cm (mW/cm ²)	Power density Limits (mW/cm ²)
1	2412	7.63	11.50	11±1	12	15.85	0.007687	1
6	2437	7.47	11.34	11±1	12	15.85	0.007687	1
11	2462	6.38	10.25	10±1	11	12.59	0.006106	1

802.11n HT40 : Antenna A

Channel	Frequency (MHz)	Output Power (dBm)	E.I.R.P (dBm)	Target Power W/tolerance (dBm)	Max tune up power(dBm) tolerance	Max tuneup power(mW) tolerance	Power Density at R=20cm (mW/cm ²)	Power density Limits (mW/cm ²)
3	2422	7.65	11.52	11±1	12	15.85	0.007687	1
6	2437	7.23	11.10	11±1	12	15.85	0.007687	1
9	2452	6.27	10.14	10±1	11	12.59	0.006106	1

According to KDB 447498, no stand-alone required for WIFI antenna, and no simultaneous SAR measurement is required.

*** End of Report ***