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Report No.:1811C40033812501 FCC ID: 2ANPB-RCC2430REGO

# FCC Test Report

Applicant : RNG International Inc.

Address 5050 S Archibald Ave, Ontario, CA 91762, United

States

Product Name : RENOGY REGO 12V/24V Solar Charge

Controller

nbotek

Report Date : Nov. 05, 2024

**Shenzhen Anbotek** 



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# TEST REPORT

RNG International Inc. Applicant

Manufacturer RENOGY New Energy Co., Ltd.

**Product Name** RENOGY REGO 12V/24V Solar Charge Controller

Model No. RCC2430REGO, RCC2440REGO

RENOGY Trade Mark

> Maximum input current value: 30A Maximum input voltage value: 100VDC

Maximum input power value: 450W@12VDC; 900W@24VDC

Maximum Output current value: 30A Maximum Output voltage value: 32VDC

Maximum Output power value: 450W@12VDC; 900W@24VDC

47 CFR Part 15.247

Test Standard(s) KDB 558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10-2020

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt:	Sept. 24, 2024
And Anbotek And	Aupolek Hugo
Date of Test:	Sept. 24, 2024 to Oct. 28, 2024
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# **Revision History**

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upotek	Report Version	Description	Issued Date
Anborek	helt apoteR00 Anbote	Original Issue.	Nov. 05, 2024
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18k	Aupotek Aupotek	Aupotek Vupotek Vupote	Anbotek Anbotek As
nbotek	Aupolek Aupole	Aupotek Aupotek Aupot	Aupotek Vipor

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# 1. General Information

# 1.1. Client Information

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Applicant	:	RNG International Inc.
Address	ŀ	5050 S Archibald Ave, Ontario, CA 91762, United States
Manufacturer		RENOGY New Energy Co., Ltd.
Address	:	Room 624-625, Taicang German Overseas Students Pioneer Park, 66 Ningbo East Road, Taicang Economic Development Zone China
Factory	:	RENOGY New Energy Co., Ltd.
Address	:	Room 624-625, Taicang German Overseas Students Pioneer Park, 66 Ningbo East Road, Taicang Economic Development Zone China

# 1.2. Description of Device (EUT)

		N. Alexander Mills
Product Name	:	RENOGY REGO 12V/24V Solar Charge Controller
Model No.	:	RCC2430REGO, RCC2440REGO (Note: All samples are the same except the model name, so we prepare "RCC2430REGO" for test only.)
Trade Mark	:	RENOGY Anbotek Anbotek Anbotek Anbotek
Test Power Supply	:	DC 100V/30A
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A hoper Andore And hotek Andorek And
RF Specification		
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	40 otek Anbotek Anbotek Anbotek Anbotek
Modulation Type		GFSK Anbotek Anbotek Anbotek Anbotek
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	1.5dBi Andotek Andotek Andotek Andotek Andotek Andotek

#### Remark:

- (1) All of the RF specification are provided by customer.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.









# 1.3. Auxiliary Equipment Used During Test

Title		Manufacturer	Model No.	Serial No.
¥	Augores, Aug	otek Alborek A	you I upolek	Aupore   Au

# 1.4. Operation channel list

#### Operation Band:

Jana.	10/0	17.	18/	V UD-		. de
Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
2402	10 Anbol	2422	16× 20	2442	30	2462
2404	otek 11 A	10018 2424 AT	21	2444	Anboat	2464
2406	10112	2426	And 22	2446	32	2466
2408	13.*	2428	23	2448	33 Anbox	2468
2410	14 hotek	2430	24 nb c	2450	rek 34 An	2470
2412	15	2432 100	25 Ant	2452	nbo**35	2472
e <sup>k</sup> 2414 <sub>Anbot</sub>	16 And	2434	1,001ek 26	2454	36	2474
2416	o <sup>oten</sup> 17	2436	Anb 27	2456	37 otek	2476
2418	Anbo18	2438	28 otek	2458	38	2478 Maria
2420	A 19 10 1	2440	29 nbote	2460	39	2480
	Frequency (MHz) 2402 2404 2406 2408 2410 2412 2414 2416 2418	Frequency (MHz)         Channel           2402         10           2404         11           2406         12           2408         13           2410         14           2412         15           2414         16           2416         17           2418         18	Frequency (MHz)         Channel         Frequency (MHz)           2402         10         2422           2404         11         2424           2406         12         2426           2408         13         2428           2410         14         2430           2412         15         2432           2414         16         2434           2416         17         2436           2418         18         2438	Frequency (MHz)         Channel         Frequency (MHz)         Channel           2402         10         2422         20           2404         11         2424         21           2406         12         2426         22           2408         13         2428         23           2410         14         2430         24           2412         15         2432         25           2414         16         2434         26           2416         17         2436         27           2418         18         2438         28	Frequency (MHz)         Channel         Frequency (MHz)         Channel         Frequency (MHz)           2402         10         2422         20         2442           2404         11         2424         21         2444           2406         12         2426         22         2446           2408         13         2428         23         2448           2410         14         2430         24         2450           2412         15         2432         25         2452           2414         16         2434         26         2454           2416         17         2436         27         2456           2418         18         2438         28         2458	Frequency (MHz)         Channel         Frequency (MHz)         Channel         Frequency (MHz)         Channel           2402         10         2422         20         2442         30           2404         11         2424         21         2444         31           2406         12         2426         22         2446         32           2408         13         2428         23         2448         33           2410         14         2430         24         2450         34           2412         15         2432         25         2452         35           2414         16         2434         26         2454         36           2416         17         2436         27         2456         37           2418         18         2438         28         2458         38

# 1.5. Description of Test Modes

	Pretest Modes		Descriptions
0	TM1	otek	Keep the EUT works in continuously transmitting mode (BLE 1M)
D.	TM2	Anbo	Keep the EUT works in continuously transmitting mode (BLE 2M)









# 1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB
Power Spectral Density	0.76dB
Conducted Spurious Emission	1.24dB Anbottek Anbottek Anbotte
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	3.53dB And Lek Andotek Andotek
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB

The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

# 1.7. Test Summary

View View I'ek "Upo,	-K HOLO	VI.
Test Items	Test Modes	Status
Antenna requirement	Aupole, Aug	ick P An
Conducted Emission at AC power line	k Aupole Aug	N <sup>4</sup> 950
Occupied Bandwidth	Mode1,2	Per
Maximum Conducted Output Power	Mode1,2	Pun Polek
Power Spectral Density	Mode1,2	P
Emissions in non-restricted frequency bands	Mode1,2	P
Band edge emissions (Radiated)	Mode1,2	Р
Emissions in frequency bands (below 1GHz)	Mode1,2	Anbore P
Emissions in frequency bands (above 1GHz)	Mode1,2	Aup Bles
Note: P: Pass N: N/A not applicable	Auporek Vuporek	Aupole Aupole







#### 1.8. Description of Test Facility

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

#### FCC-Registration No.:434132

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 434132.

#### ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

#### **Test Location**

Shenzhen Anbotek Compliance Laboratory Limited.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

#### 1.9. Disclaimer

- The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 2. The test report is invalid if there is any evidence and/or falsification.
- 3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- This document may not be altered or revised in any way unless done so by Anbotek and all
  revisions are duly noted in the revisions section.
- 5. 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.
- 6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.



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# 1.10. Test Equipment List

Cond	ucted Emission at A	C power line	<sup>Jupo</sup>	V upotek	Auporg	Allotek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
o <sup>lek</sup> 1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-01-18	2025-01-17
nbolek 2	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2024-01-17	2025-01-16
3	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	Anbolek	Vupor Vek
4	EMI Test Receiver	Rohde & Schwarz	ESPI3	100926	2023-10-12	2024-10-11

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Emissions in non-restricted frequency bands

Occupied Bandwidth

Maximum Conducted Output Power

Power Spectral Density

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
F 1	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	N/A Anbotek	2024-10-14	2025-10-13
o 1ek 2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2024-09-09	2025-09-08
Vugore.	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05
<b>4</b> <sup>Anb</sup>	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2024-09-09	2025-09-08
5	Oscilloscope	Tektronix	MDO3012	C020298	2024-10-10	2025-10-09
6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2024-02-04	2025-02-03

Band	edge emissions (Ra	ndiated)	, 6k	nbotek	Aupole, A	hotek b	
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date	
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22	
e <sup>k</sup> 2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-01-16	
10 3 K	3 Double Ridged Horn Antenna SCHWARZBE		BBHA 9120D	10 02555 pm	2022-10-16	2025-10-15	
14 <sup>00</sup>	EMI Test Software EZ-EMC	SHURPLE	N/A	nbol <sup>e</sup> N/A	Vupore Vek	Vupofek)	
5 A	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2024-01-22	2027-01-21	
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-05-05	
7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-05-06	
400.	K	"Pole VIII"	10 00 00	10 P.	10-	49.	





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Report No.:1811C40033812501 FCC ID: 2ANPB-RCC2430REGO

roauct	Safety	FCC ID: 2	2ANPB-RCC	2430REG	Jek Vupo	Ann	40.
upore	k Polek	Aupolen Aun	tek anbo	iek Vup	o. h	spotek Aupo	Ço.
Emiss	sions in frequency ba	ands (below 1GHz)	otek o	nbolek	Aupora ek	"polek V	upor
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date	PL
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-01-22	
ie <sup>k</sup> 2	Pre-amplifier	SONOMA	310N	186860	2024-01-17	2025-01-16	
nb 3ek	Bilog Broadband Antenna	Schwarzbeck	VULB9163	16 345 NA	2022-10-23	2025-10-22	) tek
A 50°	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2024-09-12	2025-09-11	nbo
5 A	EMI Test Software EZ-EMC	SHURPLE	N/A	N/Å	Vupor Polick	Aup Vek	P

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
IICÍB.	Equipment	Manuacturer	Model No.	Serial IVO.	boveast Cal. N.	Cal.Duc
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2024-01-23	2025-0
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2024-01-17	2025-0
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-1
, <sub>o</sub> ,v4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A Mbo	ick / Wupole	NOK A
An 5 rel	Horn Antenna	A-INFO Anbo	LB-180400- KF	J21106062 8	2024-1-22	2027-1
6, nb	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2024-05-06	2025-0
7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2024-05-07	2025-0

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Report No.:1811C40033812501 FCC ID: 2ANPB-RCC2430REGO

# 2. Antenna requirement

Test Requirement:

Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

#### 2.1. Conclusion

The antenna is a PCB Antenna which permanently attached, and the best case gain of the antenna is **1.5dBi**. It complies with the standard requirement.

Shenzhen Anbotek Compliance Laboratory Limited

Anbolek



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Report No.:1811C40033812501 FCC ID: 2ANPB-RCC2430REGO

# 3. Conducted Emission at AC power line

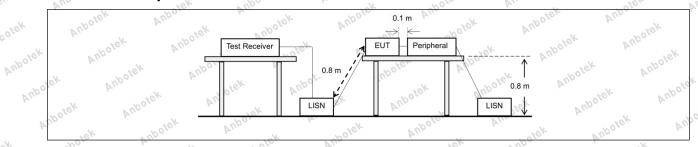
,k	Auporek Aupo	section, for an intentional radiator t public utility (AC) power line, the ra	efer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this ection, for an intentional radiator that is designed to be connected to the ublic utility (AC) power line, the radio frequency voltage that is conducted								
0	Test Requirement:	back onto the AC power line on any band 150 kHz to 30 MHz, shall not measured using a 50 µH/50 ohms (LISN).	exceed the limits in the fo	ollowing table, as							
İ	Vupores Vup	Frequency of emission (MHz)	Conducted limit (dBµV)	rek.							
	olek Anbore	VIII I'M Upoler	Quasi-peak	Average							
	- Aug	0.15-0.5	66 to 56*	56 to 46*							
6	Test Limit:	0.5-5	56 Stek Anbol	46							
	A. rek	5-30	60 And	50° Anbo							
10	otek Aupo.	*Decreases with the logarithm of the frequency.									
	Test Method:	ANSI C63.10-2020 section 6.2									
	Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from unli		od for ac power-							

# 3.1. EUT Operation

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Operating Environme	nt: "otek	Anbores	Vun Viek	Aupolek	Vupo.	abotel
Test mode: /	VIII.	Anboick	Vup.	"upolek	Anbor	. N
3.2. Test Setup	And	anbotek	Anbo	k abolek	Anbore	View

#### 3.2. Test Setup



#### 3.3. Test Data

Not applicable for equipment operated with DC power supply.



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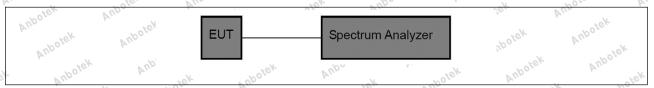
# 4. Occupied Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2020, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Aupotek Aupote	11.8.1 Option 1 The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
otek Vupotek	<ul> <li>b) Set the VBW ≥ [3 × RBW].</li> <li>c) Detector = peak.</li> <li>d) Trace mode = max-hold.</li> <li>e) Sweep = No faster than coupled (auto) time.</li> </ul>
Procedure:	f) Allow the trace to stabilize. g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-6 dB down amplitude". If a marker is below this "-6 dB down
otek Auporek V.	amplitude" value, then it shall be as close as possible to this value.
Anbotek Anbotek	11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW ≥ 3 × RBW, and peak detector with maximum hold) is implemented by the instrumentation function.
sek Aupolek V	When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

# 4.1. EUT Operation

	Operating Envir	onment:	Yur "Fek	" upolek	Anbo	/k	botek	Aupore	, P
	Vur	1: TX mode(B	LE 1M): Kee	p the EUT w	orks in conti	nuously tra	ansmitting	mode (Bl	LE
Y-	Test mode:	1M)	LE OMANDOIE	And	191	oo <sub>fek</sub>	Aupo	ı (Di	notek
	iek Vupojer	2: TX mode(B 2M)	LE ZIVI): Kee	p the EUT W	orks in conti	nuousiy tra	ansmitting	mode (Bi	EE VSY

#### 4.2. Test Setup



#### 4.3. Test Data

Temperature: 22.8 °C	Humidity: 57 %	Atmospheric Pressure: 101 kPa
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Please Refer to Appendix for Details.







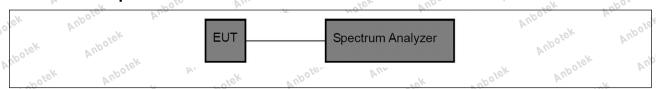
# 5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Limit:  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation
Potek Vupore	methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2020 section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020, section 11.9.1 Maximum peak conducted output power

#### 5.1. EUT Operation

	Operating Envir	onment: Anbore	V Air	"olek	Aupolek	AUB	rek	anbotek.	Aupor
, ci	Test mode:	1: TX mode(Bl 1M) 2: TX mode(Bl 2M)	rek	Vupore.	Vun	You	"polek	Aups	V

# 5.2. Test Setup



### 5.3. Test Data

Temperature: 22.8 °C Humidity	/: 57 %	Atmospheric Pressure:	101 kPa
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Please Refer to Appendix for Details.



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Report No.:1811C40033812501 FCC ID: 2ANPB-RCC2430REGO

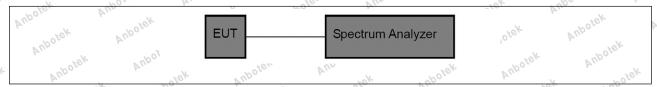
# 6. Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Limit:  Anbotek  Anbotek  Anbotek	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10-2020, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020, section 11.10, Maximum power spectral density level in the fundamental emission
6.1. EUT Operation	Auportek Vipolek Vipoles Vipolek Vipolek Vipolek Vipolek Vipolek Vipolek

### 6.1. EUT Operation

Operating Envir	ronment:	Olek	Aupolek	VUD	16k	upolek	Aupo	- N
Test mode:	1: TX mode(BLE 1M) 2: TX mode(BLE 2M)	Vupote.	VUL	40.	polek	Anbo	, , , , , , , , , , , , , , , , , , ,	rotek

# 6.2. Test Setup



#### 6.3. Test Data

Temperature:	22.8 °C	rek	Humidity:	57 %	Atmos	pheric Pressure:	101 kPa	
· (//>	~~	-100	V -		. 61	P. 1.	10.7	. 0

Please Refer to Appendix for Details.





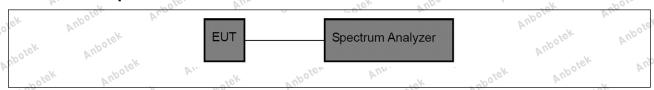
# 7. Emissions in non-restricted frequency bands

700
47 CFR 15.247(d), 15.209, 15.205
Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
ANSI C63.10-2020 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3

# 7.1. EUT Operation

	Operating Envir	onment:	Vun.	Vupolek	Anbo	"polek	Vupose
7.00	Test mode:	1: TX mode(BLE 1M) 2: TX mode(BLE 2M)	iek vupoje	An	rek spoick	Ambo	V 7

# 7.2. Test Setup



#### 7.3. Test Data

Temperatur	re: 22.8 °C	Humidity:	57 %	Atmospheric Pressure:	101 kPa
S		1() 1	DV.	10.	- V

Please Refer to Appendix for Details.









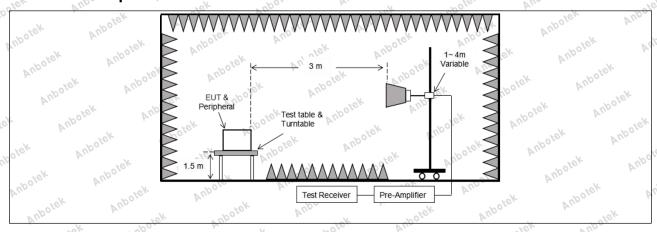
# 8. Band edge emissions (Radiated)

101 10"	, 24 , 20 ,	N	P. U
Test Requirement:		In addition, radiated emissions I in § 15.205(a), must also comp	
rest Requirement.		ecified in § 15.209(a)(see § 15.20	
Vick Vuporg	Frequency (MHz)	Field strength	Measurement
botek Anbotek	Augo sek	(microvolts/meter)	distance (meters)
Yun 'ek 'uporek	0.009-0.490	2400/F(kHz)	300,000
Aupore A.	0.490-1.705	24000/F(kHz)	30
Polek Vupo	1.705-30.0	30 All John	30 And
Vu.	30-88	100 **	3 noboles
k Aupoin Air	88-216	150 **	3
K hotek	216-960	200 **	3 tek Anbo
Roter AUD	Above 960	500	<u></u>
Test Limit:		ragraph (g), fundamental emissi	
Aupo		ng under this section shall not b	
Spokek Aups		z, 76-88 MHz, 174-216 MHz or 4	
All note		hese frequency bands is permitt	ed under other
Aupor	sections of this part, e.g., §		- rad - dans - Otek
k hotek An		, the tighter limit applies at the b	
War Wung		in the above table are based on	
rek vupoter		peak detector except for the frequebove 1000 MHz. Radiated emis	
you were		ed on measurements employing	
Aupotek Aupo	detector.	And of the casarements employing	anaverage
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		k Vupojek
Procedure:	ANSI C63.10-2020 section	6.10.5.2 And And	tek upolek

# 8.1. EUT Operation

Operating Envi	ronment:	Vupolek	Anbo	.ek	abolek	Anboro	, b.,	otek A
Anborek	1: TX mo 1M)	de(BLE 1M	l): Keep th	e EUT wo	rks in con	tinuously tr	ansmitting r	mode (BLE
Test mode:	V. (/////	de(BLE 2M	l): Keep th	e EUT wo	rks in con	tinuously tr	ansmitting r	mode (BLE

# 8.2. Test Setup



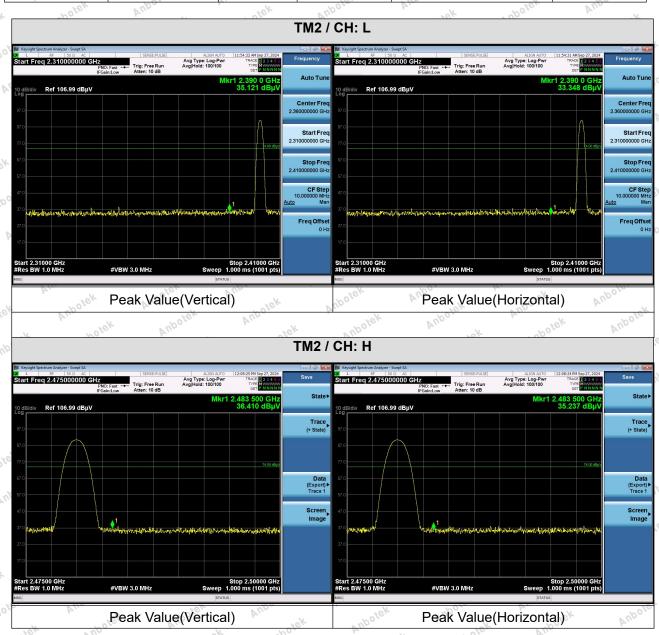






#### 8.3. Test Data

22.8 °C 101 kPa Temperature: 57 % Atmospheric Pressure: Humidity:



#### Remark:

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- 1. During the test, pre-scan all modes, the report only record the worse case mode.
- 2. When the PK measure result value is less than the AVG limit value, the AV measure result values test not applicable.







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Report No.:1811C40033812501 FCC ID: 2ANPB-RCC2430REGO

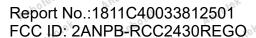
# 9. Emissions in frequency bands (below 1GHz)

- AD - AD -		D. FOLL	
Auporg Wi.	Refer to 47 CFR 15.247(d),	In addition, radiated emissions	which fall in the
Test Requirement:		l in § 15.205(a), must also comp	
VII.	radiated emission limits spe	ecified in § 15.209(a)(see § 15.2	05(c)).`
lek Aupor	Frequency (MHz)	Field strength	Measurement
ok sporek	Anbo	(microvolts/meter)	distance
upole. Aur	Anbe	Pupor	(meters)
iotek Anbore	0.009-0.490	2400/F(kHz)	300,000
Aub. K Pokel	0.490-1.705	24000/F(kHz)	30
"upoter Aug	1.705-30.0	30	30 And
b. Fek Vup	30-88	100 **	3 nooler
Vupo, W.	88-216	150 **	3
ok shotek	216-960	200 **	3 tek Anbo
T 1 1 in the sol	Above 960	500 Apporter A	n3
Test Limit:		ragraph (g), fundamental emissi	
Aupa		ng under this section shall not b	
upolen And		z, 76-88 MHz, 174-216 MHz or	
Ar. rek Vupore		hese frequency bands is permitt	ed under other
Anbo	sections of this part, e.g., §	९ ।ठ.८७। बात ।ठ.८४।. e, the tighter limit applies at the b	and added to tek
k shotek An		in the above table are based on	
VII.	-10	peak detector except for the freq	O .
otek Aupore		above 1000 MHz. Radiated emis	
, kotek		ed on measurements employing	
Aupore, Aur	detector, tek	wotek Aupole	Viek Olek
- Motek Aupora	ANSI C63.10-2020 section	6.6.4 Molek	Anto
Test Method:	KDB 558074 D01 15.247 M		k Aupoles
Procedure:	ANSI C63.10-2020 section	6.6.4 Anboten And	tek oupotek
9.1. EUT Operation	Aupotek Vipoter	And abotek Andorek And	potek Aupote

# 9.1. EUT Operation

P.	Operating Envir	onment:	Vupoler.	AUD	Yo.	abolek.	Anbo	٧ .	"Otek	ANY
	"Upolek Vi	1: TX mod	de(BLE 1M)	: Keep th	ne EUT wo	orks in conti	nuously tra	ansmitting	mode (Bl	E.
	Test mode:	1M) 2: TX mod	le(BLF 2M)	. Keen th	e FUT w	orks in conti	nuously tr	ansmitting	mode (Bl	Æ
V	Ali.	2M)	C(DLL ZIVI)	n recep ii	Anbolek	And III Conta	ridodsiy (i.e	ansimiting i	Anbore	





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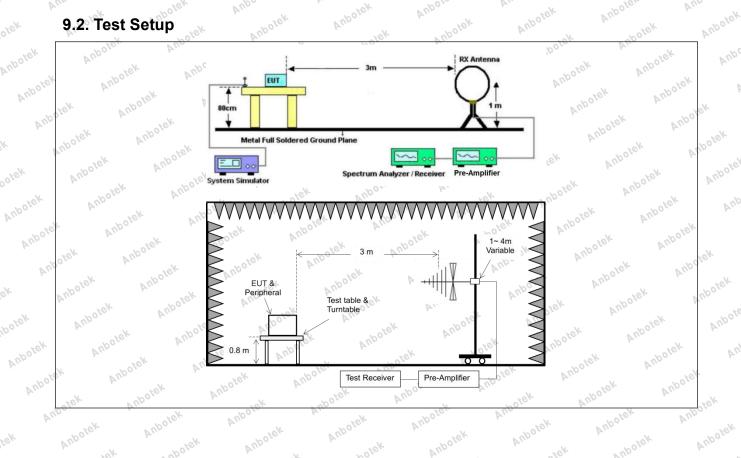
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#### 9.2. Test Setup



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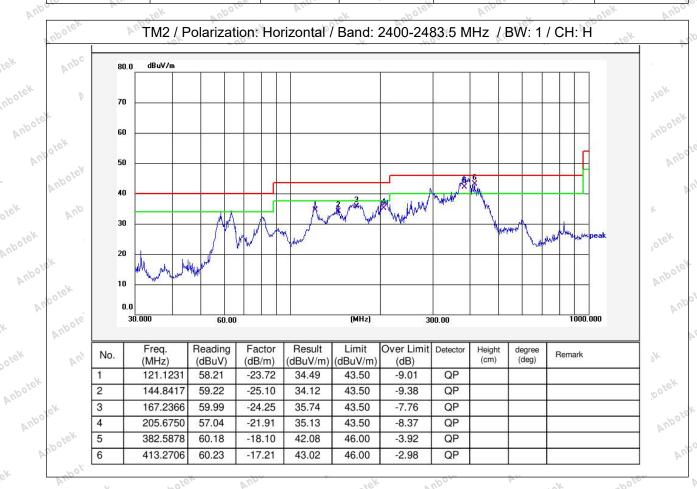




#### 9.3. Test Data

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

Temperature: 23.7 °C Humidity: 49 % Atmospheric Pressure: 101 kPa







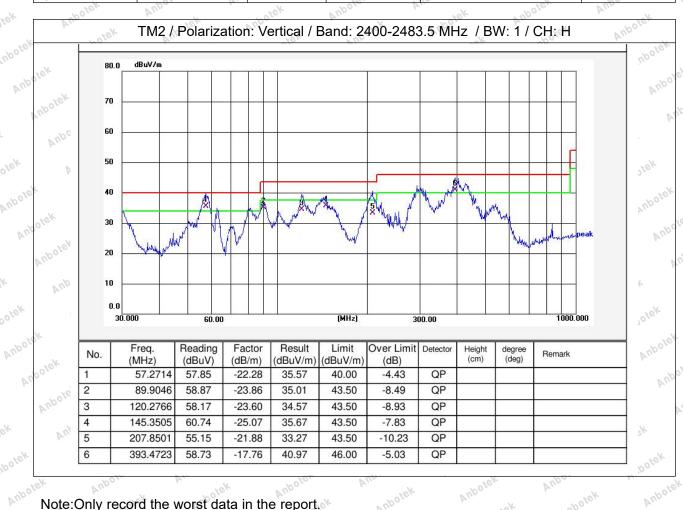


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Report No.:1811C40033812501 FCC ID: 2ANPB-RCC2430REGO

23.7 °C 49 % Atmospheric Pressure: Temperature: Humidity: 101 kPa



Note:Only record the worst data in the report.





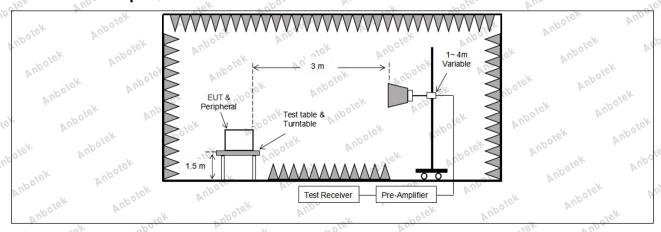
# 10. Emissions in frequency bands (above 1GHz)

- Yak - Ab'		70,	VU <sub>D</sub>
Test Requirement:		ons which fall in the restricted background $f(x)$ with the radiated emission $f(x)$ .	
stek Aupotek	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
Potek Vipoter	0.009-0.490 0.490-1.705	2400/F(kHz) 24000/F(kHz)	300
Wolek Wholes	1.705-30.0	30 Amboret	30 Anba
Yun 'ek 'up	30-88	100 **	3 nboter
Yupor Wi	88-216	150 **	3 A NO 100 PK
rek upotek	216-960 Above 960	200 ** 500	3 tek Anbo
Test Limit:  Anbotek   intentional radiators operatifrequency bands 54-72 MH However, operation within tections of this part, e.g., § In the emission table above	ragraph (g), fundamental emissing under this section shall not bz, 76-88 MHz, 174-216 MHz or 4 hese frequency bands is permitt § 15.231 and 15.241.  The tighter limit applies at the bin the above table are based on	e located in the 470-806 MHz. ed under other and edges.	
Potek Vupotek	employing a CISPR quasi-p 90 kHz, 110–490 kHz and a	peak detector except for the freq above 1000 MHz. Radiated emised on measurements employing	uency bands 9– sion limits in
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		k Aupolek
Procedure:	ANSI C63.10-2020 section	6.6.4 Anbotek Anb	tek vupotek
			117

# 10.1. EUT Operation

Operating Enviro	onment:	Anbotek	Aupo	ek	abolek	Auporg	P.	"olek	An
Aupotek Au		ode(BLE 1M	l): Keep th	e EUT wo	rks in con	tinuously tr	ansmitting	mode (B	LE
Test mode:	1M) 2: TX mo	ode(BLE 2M	l): Keep th	e EUT wo	rks in con	tinuously tr	ansmitting	mode (B	Œ
"Olek	2M)	V. VIII	, tek	upoter	AUD	Ya	botek	Aupo.	

# 10.2. Test Setup





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Report No.:1811C40033812501 FCC ID: 2ANPB-RCC2430REGO

# 10.3. Test Data

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40.	potek	Ando	Clek	Aupore	W.	abolen	And		
otek	TM2 / CH: L								
loo!	Peak value:								
P.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization		
	4804.00	28.32	15.27	43.59	74.00	-30.41	Vertical		
	7206.00	28.41	18.09	46.50	74.00	-27.50	Vertical		
	9608.00	29.21	23.76	52.97	74.00	-21.03	Vertical		
	12010.00	V4pore.	VI. Olek	Aupolice.	74.00	· upolek	Vertical		
	14412.00	k * Vupole	Anbo	abott	74.00	7 20	√ Vertical √ √ √ √ √ √ √ √ √ √ √ √ √ √ √ √ √ √ √		
	4804.00	28.00	otek 15.27 habo	43.27	74.00	-30.73	Horizontal		
	7206.00	28.88	18.09	46.97	74.00	-27.03	Horizontal		
	9608.00	28.06	23.76	51.82	74.00	-22.18	Horizontal		
	12010.00	*botek	Anbore	W. Polek	74.00	Vug.	Horizontal		
	14412.00	* * Stek	Vupolek	Anbolo lok	74.00	Auporer	Horizontal		
	14412.00 Average value:								
	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization		
	4804.00	16.59	15.27	31.86	54.00	-22.14	Vertical		
	7206.00	17.46	18.09	35.55	54.00	-18.45	Vertical		
	9608.00	18.68	23.76	42.44	54.00	-11.56	Vertical		
	12010.00	*nbore.	All	k Aupolek	54.00	ek abole	Vertical		
1	14412.00	tek * upot	Sk Aupo	'do 40.	54.00 habo	A.	√Vertical √v°		
	4804.00	16.33	15.27 AN	31.60	54.00	-22.40 hal	Horizontal		
	7206.00	17.91 A	18.09	36.00	54.00	-18.00	Horizontal		
	9608.00	17.57	23.76	41.33	54.00	-12.67	Horizontal		
	12010.00	* NOICK	Aupolek	VIII	54.00	And	Horizontal		
7	14412.00	PU*	abolek	Vuporg /	54.00	Anbor	Horizontal		

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. N.	otek Vupor	-	TM2 / CLI - M		- 01	ootek Ar	
TM2 / CH: M							
Peak value:							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4880.00	27.87	15.42	43.29	74.00	-30.71	Vertical	
7320.00	28.38	18.02	46.40	74.00	-27.60 ····	Vertical	
9760.00	28.71 M	23.80	52.51 M	74.00	-21.49	Vertical	
12200.00	hotek *	upole A	rek	74.00	'up'	Vertical	
14640.00	Ans *k	V upotek	Ando	74.00	Aupor	Vertical	
4880.00	27.81	15.42	43.23	74.00	-30.77	Horizontal	
7320.00	28.75	18.02	46.77	74.00	-27.23	Horizontal	
9760.00	27.78	23.80	51.58	74.00	-22.42	Horizontal	
12200.00	* *	otek Anbo	V.	74.00	OFER AUD	Horizontal	
14640.00	bose, * Vue	10k	upotek Ar	74.00	abolek A	Horizontal	
Average value:							
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization	
4880.00	16.68	15.42	32.10	54.00	-21.90	Vertical	
7320.00	17.32 do	18.02	35.34 , 100	54.00	-18.66	Vertical	
9760.00	18.53	23.80	42.33	54.00	-11.67	Vertical	
12200.00	**************************************	Spolek	Yupo, K	54.00	Anbole	Vertical	
14640.00	Aupor *	R. otek	Aupore	54.00	anbotek	Vertical	
4880.00	16.44	15.42	31.86	54.00	-22.14	Horizontal	
7320.00	18.26	18.02	36.28	54.00	-17.72	Horizontal	
9760.00	17.87	× 23.80,0000	41.67	54.00 00	-12.33	Horizontal	
12200.00	ter * Vup	10 No.	otek Anb	54.00	MOTER AN	Horizontal	
14640.00	rek *	po,	riek	54.00	16/4	Horizontal	

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Aupo,



-k - 20	ye. Yu.		View VUD	<u> </u>	la - No-	20, N.			
			ΓM2 / CH: H						
Peak value:									
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization			
4960.00	28.00	15.58	43.58	74.00	-30.42	Vertical			
7440.00	28.54	17.93	46.47	74.00	-27.53 (ho <sup>o)</sup>	Vertical			
9920.00	otek 29.41 Mar	23.83	53.24	74.00	-20.76	ູ່√Vertical ⋈			
12400.00	***	upotek Ar	100.	74.00	'upole A	Vertical			
14880.00	Aupo *	Polek	Aupoten	74.00	Vupolek	Vertical			
4960.00	27.95	15.58	43.53	74.00	-30.47	Horizontal			
7440.00	28.96	17.93	46.89	74.00	-27.11	Horizontal			
9920.00	28.16	23.83	51.99	74.00	-22.01	Horizontal			
12400.00	* *	rek anbo	ick Vupo	74.00	otek Aupo	Horizontal			
W. Cak	potek Aup	P	POTEK VI	bose, VIII	rek	Horizontal			
Average value:									
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization			
4960.00	17.80	15.58	33.38	54.00	-20.62	Vertical			
7440.00	× 18.59 000	17.93	36.52	54.00	-17.48	vertical no			
9920.00	19.18	otek 23.83 And	43.01	54.00	-10.99	Vertical			
12400.00	10010 * WI	rek	upotek A	54.00	abotek	Vertical			
14880.00	upole*	Vupo	spotek	54.00	V. Oick	Vertical			
4960.00	17.62	15.58	33.20	54.00	-20.80	Horizontal			
7440.00	19.06	17.93	36.99	54.00	-17.01	Horizontal			
9920.00	18.02	23.83	41.85	54.00	-12.15,00 <sup>10</sup>	Horizontal			
12400.00	tek * Aupor	Viv	siek anb	54.00	19.	Horizontal			
14880.00	*** *	Polek Vul	, o'	54.00	loo. W.	Horizontal			

#### Remark:

- 1. Result =Reading + Factor
- Test frequency are from 1GHz to 25GHz, "\*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.
- 3. Only the worst case is recorded in the report.







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# **APPENDIX I -- TEST SETUP PHOTOGRAPH**

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Please refer to separated files Appendix I -- Test Setup Photograph\_RF

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#### APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

#### APPENDIX III -- INTERNAL PHOTOGRAPH

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Please refer to separated files Appendix III -- Internal Photograph

------ End of Report

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