

FCC ID: 2BE99-AERIS 18220WC40024001 Report No.: Page 1 of 32

FCC Test Report

SHO PRODUCTS, LLC **Applicant**

1602 Lockness Place, Torrance, CA 90501, Address Torrance, California, 90505, United States

AERIS Product Name

Report Date : Mar. 12, 2024









Report No.: 18220WC40024001 FCC ID: 2BE99-AERIS Page 2 of 32

Contents

1. Gener	al Information	Vupo,			1931	ofer	Anb		otek 6
1.1.	Client Information	,ρυ _/	o ^{ter}	Anb. b	, _o y	Anbotek	Anbore	146/4 V	
1.3	Description of Device (EUT Auxiliary Equipment Used D	During Tes	st .						190
v. 14	Operation channel list								, 8
1.5.	Description of Test Modes	145		xe ^k	100°	h.,		POJE.	8
Anbore 1.6.	Measurement Uncertainty Test Summary		//	hotek	Anbois		otek 	, nboto	ة و و
1.8.	Description of Test Facility.	Pupp.	۱		۵,	Office	VU		.te™.1(
1.9.	Disclaimer		ořek	Anbo	- OK		Kupor	P.C.	10
P.T.TU	Disclaimer	*ek	abotek		Y	inotek.	Anbo	,o	ωνΤ΄
2. Anteni	na requirement	5/2 P	no _{fel}	P.Z	10018		ek	'potek	
otel 2.1.	Conclusion	upo _{te} ,	And	46K	vupojek	Pi0po,	, ok	.holek	13
3. Condu	Conclusion	line	Aup,	,	, sootel	نهر	po ^{re}	Vu.	14
3.1.	EUT Operation	oiel	<u> </u>	Uporo	Vu.		Mpoter	Anbe	14
3.2.	Test Setup	b11.		Autoter	VUD.	eV	Jpg/ek	Kupo	14
Ampro.	rest Data		rek	nbot	EV.	100		ek bi	,botel:
4. Occup	oied Bandwidth	,e.y	/odo,		0 ¹⁸ 1	Aupoie	424	stek	1,
4.1.	EUT Operation		Vipose.		- otek	NUD of C	N	, o.k	17
4.2. 4.3.	Test Data	otek.	anbo	,e/	Kupo		otek	Anbor	18
5 Maxim	num Conducted Output Pow	er dek							. 19
Anbores 5.1	num Conducted Output Pow EUT Operation	Anb	.ak	botek	Anbo		Viek	Napot	10
5.2	Test Setun								_0`10
5.3.	Test Data	9k	boter	Anba		, Notek	····bupo.	P.,	19
6. Power	Test Detup Test Data r Spectral Density EUT Operation Test Setup		dootek	ρ_{u_k}			<u>/</u>	ote.	20
6.1.	EUT Operation			ek	Vupo _{te} .	Ans	Ne ₂ K	obotek	20
botek 6.2.	Test Setup	Popose	Vur		Wholek	PUp			20
6.3.	Test Dataions in non-restricted freque	Vupoter.	p.o	*e\	nboʻ	b	''/p0]	~o ₄₆	20
7.1.	EUT Operation	γ _K ''	,,,,e,k	···· ^V //p _{G,c}	<u> </u>		9000	k	2
7.2. 7.3	Test Setup		otek	anb	., e.r	Kupo		otek	2'
9 Rand	odgo omissions (Padiatod)	otek	VUD.	<i>J</i> K	abotek	Aupo	, ku	:ojek	20
o. Dallu	EUT O	abotek	Anboy.	······	worek	Anbo	740k		24
8.1. 8.2	Test Setup	hotek	Ant	046		<i>Y</i> -	ob ^{orek}	PUPS,	2i
8.3.	Test Data	VI.		(lpo _{tek}	Anbo		Hotek	Anbore	23
9. Emiss	Test Setup	low 1GH	z)	r botel	Ant	,0 ⁷⁰	Vu.	das	o ^{tek} 24
9.1.	EUT Operation	K Ant	201°	VII.	tek.	Aupoter	VUD.	.ek	2002
9.2.	Test Setup	ove/r	^{Nupo} le	Anto		, deotek	4,761	,	2
9.3.	Test Data			<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	0po.	- Pro		1004c.	26







Report No.: 18220WC40024001	FCC ID: 2	BE99-AERI	Swork	Page 3 of	f 32
10. Emissions in frequency bands (above 1GH	Z)bołok	Anbore	Andotek	Anbotek	28
10.1. EUT Operation	r potek	Anboro	VII.	anbote	28
10.2. Test Setup	bu.	, boton	Anbe	-)4	28
10.3. Test Data	itek Vupo,		<u> 14</u>	Br. Will	29
APPENDIX I TEST SETUP PHOTOGRAPH.	stek sobo	iek Aupo	ak	potek	32
APPENDIX II EXTERNAL PHOTOGRAPH	Upo L	1016 Notes	OL VII		32
APPENDIX III INTERNAL PHOTOGRAPH					32





FCC ID: 2BE99-AERIS Report No.: 18220WC40024001 Page 4 of 32

TEST REPORT

SHO PRODUCTS, LLC Applicant

SHO PRODUCTS, LLC Manufacturer

Product Name

: AERIS Test Model No.

: N/A Reference Model No.

FOCUS Trade Mark

Rating(s) Input: 5V= 2A(with DC 7.4V 800mAh battery inside)

47 CFR Part 15.247

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

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:	Jan. 31, 2024
Date of Test:	Jan. 31, 2024 ~ Feb. 29, 2024
anbotek Anbotek Anbotek Anbotek Anbotek	Ella Liang
Prepared By:	obotes And botek Art Ando Mek
	(Ella Liang)
	Idward pan
Approved & Authorized Signer:	tek Anbote And tek abotek Anbo
k Anbo, An otek Anbore, Ant	(Edward Pan)



Report No.: 18220WC40024001 FCC ID: 2BE99-AERIS Page 5 of 32

Revision History

Report Version	Description	Issued Date
Anbore R00 potek An	Original Issue.	Mar. 12, 2024
k Anborek Anborek	Anbotek Anbotek Anbotek	K Anbotek Anbotek Anb
ore Ambotek Anbotek	Anbotek Anbotek Anbot	otek Anbotek Anbotek





Report No.: 18220WC40024001 FCC ID: 2BE99-AERIS Page 6 of 32

1. General Information

1.1. Client Information

VII.		10 VI
Applicant	:	SHO PRODUCTS, LLC
Address	:	1602 Lockness Place, Torrance, CA 90501, Torrance, California, 90505, United States
Manufacturer	:	SHO PRODUCTS, LLC
Address	:	1602 Lockness Place, Torrance, CA 90501, Torrance, California, 90505, United States
Factory	:	FOCUS HI-TECH CO.,LTD
Address	:	Building C,Jingfukang Industrial zone, FengHuang Road No.9, Torch development district, Zhongshan, China, 528437

1.2. Description of Device (EUT)

70 70	_	
Product Name	:	AERIS Andrek Anborek Anborek Anborek Anbore
Test Model No.	:	AERIS Anbotek Anbotek Anbotek Anbotek
Reference Model No.	:	N/A hotek Anbotek Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	* FOCUS V Tek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Test Power Supply	:	DC 7.4V battery inside, AC 120V/60Hz for Adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/Astek Anbotek Anbotek Anbotek Anbotek
RF Specification	•	
Operation Frequency	:	2402MHz to 2480MHz
Number of Channel	:	40 Anborek Anborek Anborek Anborek Anborek Anborek
Modulation Type	:	GFSK Anborek Anborek Anborek Anborek
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	-7.5dBi Anbotek Anbotek Anbotek Anbotek Anbotek
Domorki		The state of the s

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.







Report No.: 18220WC40024001 FCC ID: 2BE99-AERIS Page 7 of 32

1.3. Auxiliary Equipment Used During Test

Title	Title Manufacturer		Serial No.	
Xiaomi 33W adapter	Xiaomi	MDY-11-EX	SA62212LA04358J	





Report No.: 18220WC40024001 FCC ID: 2BE99-AERIS Page 8 of 32

1.4. Operation channel list

Operation Band:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
v Onbote	2402	10 por	2422	20	2442 ₀₀₀ 000	30	2462
otek 1 Anb	2404	11 m	ot ^{el} 2424 M ^{oo}	21	2444 M	31 And	2464
botek2 A	2406	12	2426	22	2446	nb ⁰¹⁸ 32	2466
3/4	2408	13	2428	Anbo 23	2448	33	2468
4 tek	2410	And 14 rek	2430	24	2450	34	2470
5 botek	2412	15	2432	25	2452	35 botto	2472
6 gbo	2414 Dolle	16	2434 Andor	26 Andre	2454	iek 36 Anbi	2474
rek 7	2416 M	17 And	2436	otek 27 An	2456	otel 37	2476
8	2418	18	2438	28	2458	38	2478
Anbo 9 tek	2420	Anbot 19	2440	29	2460	39	2480

1.5. Description of Test Modes

Pretest Modes	Descriptions
botek AnbTM1 Anbou	Keep the EUT in continuously transmitting mode with GFSK modulation.

1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.4dB hotek Anborek Anborek
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB
Power Spectral Density	0.76dB
Conducted Spurious Emission	1.24dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.78dB; 6G-18GHz: 4.88dB 18G-40GHz: 5.68dB
Radiated emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB
The measurement uncertainty and decision risk of	valuated according to AP/MLPE E 032

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.







Report No.: 18220WC40024001 FCC ID: 2BE99-AERIS Page 9 of 32

1.7. Test Summary

	-po	- 010
Test Items	Test Modes	Status
Antenna requirement	Anbotek / Anbote	And Projek
Conducted Emission at AC power line	Mode1	P
Occupied Bandwidth	Mode1	P P
Maximum Conducted Output Power	Mode1	P
Power Spectral Density	Mode1	upo. P
Emissions in non-restricted frequency bands	Mode1	Anb P rek
Band edge emissions (Radiated)	Mode1 Anboren	P P
Emissions in frequency bands (below 1GHz)	Mode1	Pane
Emissions in frequency bands (above 1GHz)	Mode1	P An
Note: P: Pass	Anbotek Anbotek A	nbotek

N: N/A, not applicable





Report No.: 18220WC40024001 FCC ID: 2BE99-AERIS Page 10 of 32

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.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, 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.
- 4. 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.





FCC ID: 2BE99-AERIS Report No.: 18220WC40024001 Page 11 of 32

1.10. Test Equipment List

Cond	ucted Emission at A	C power line	Aupo	k spotel	Anbore	An
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
. 1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2023-10-12	2024-10-11
2 5016K	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040D T001	2023-07-05	2024-07-04
3	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2023-10-12	2024-10-11
4	Software Name EZ-EMC	Farad Technology	ANB-03A	N/A	rek /Anbotek	Anborotek

Occupied Bandwidth

Maximum Conducted Output Power

Power Spectral Density

Emis	sions in non-restricte	d frequency bands	-ak	7007	VI	- Loter
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 _{An} t	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ- KHWS80B	N/A	2023-10-16	2024-10-15
2	DC Power Supply	IVYTECH	IV3605	1804D360 510	2023-10-20	2024-10-19
3	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
An 40 te	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-02-23	2024-02-22
5.nb	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	2024-10-11
6	MXG RF Vector Signal Generator	Agilent	N5182A	MY474206 47	2023-02-23	2024-10-22

Hotline

www.anbotek.com.cn

400-003-0500



Report No.: 18220WC40024001 FCC ID: 2BE99-AERIS Page 12 of 32

ote.	And	otek pupo.	N. ak	-boye.	VU _P	ysio
	edge emissions (Ra sions in frequency ba		Auporgoiek.	Anbotek	Aupoter.	Anbotek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1 00	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2023-10-12	2024-10-11
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2023-10-12	2024-10-11
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
nbole 4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	Anbotek	Aupolek
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2023-10-12	2024-10-11
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
e ^k 7	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24

Emiss	sions in frequency ba	ands (below 1GHz)				
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2023-10-12	2024-10-11
. 2	Pre-amplifier	SONOMA	310N	186860	2023-10-12	2024-10-11
34	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22
Anistel	Loop Antenna (9K- 30M)	Schwarzbeck	FMZB1519 B	00053	2023-10-12	2024-10-11
5,00	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A No	y Aupo	k Anbotek



Report No.: 18220WC40024001 FCC ID: 2BE99-AERIS Page 13 of 32

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 -7.5dBi . It complies with the standard requirement.





FCC ID: 2BE99-AERIS Report No.: 18220WC40024001 Page 14 of 32

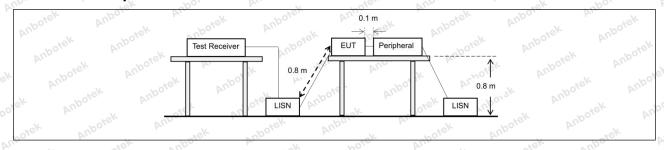
3. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except section, for an intentional radiator public utility (AC) power line, the result back onto the AC power line on are band 150 kHz to 30 MHz, shall no measured using a 50 µH/50 ohms (LISN).	that is designed to be con adio frequency voltage that my frequency or frequencient t exceed the limits in the f	nected to the at is conducted es, within the ollowing table, as				
spotek Ando	Frequency of emission (MHz)	Conducted limit (dBµV)					
YII.	Anbore Anbore	Quasi-peak	Average				
Aupor Ar.	0.15-0.5	66 to 56*	56 to 46*				
Test Limit:	0.5-5	56. An	46				
VII.	5-30 And 5	60	50 ten				
k Aupor K Ai.	*Decreases with the logarithm of the frequency.						
Test Method:	ANSI C63.10-2020 section 6.2	Anbores.	Aug				
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from un						

3.1. EUT Operation

Operating Envi	onment:	Anbo	boiek .	Anbote	Andrek	Anboick	Anbo.
Test mode:	1: TX mode modulation		EUT in continu	uously transr	mitting mode wi	th GFSK	y Aupo

3.2. Test Setup





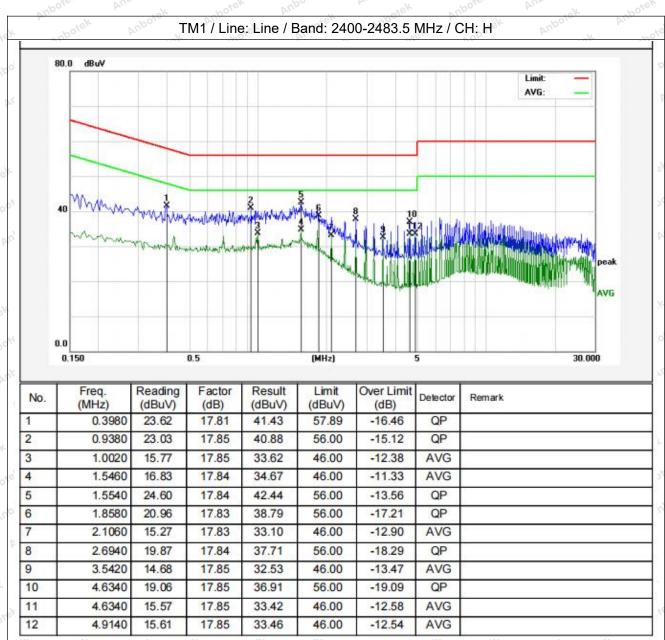
Hotline



Report No.: 18220WC40024001 FCC ID: 2BE99-AERIS Page 15 of 32

3.3. Test Data

Temperature: 23.5 °C Hum	nidity: 55.8 %	Atmospheric Pressure: 101 kPa
--------------------------	----------------	-------------------------------

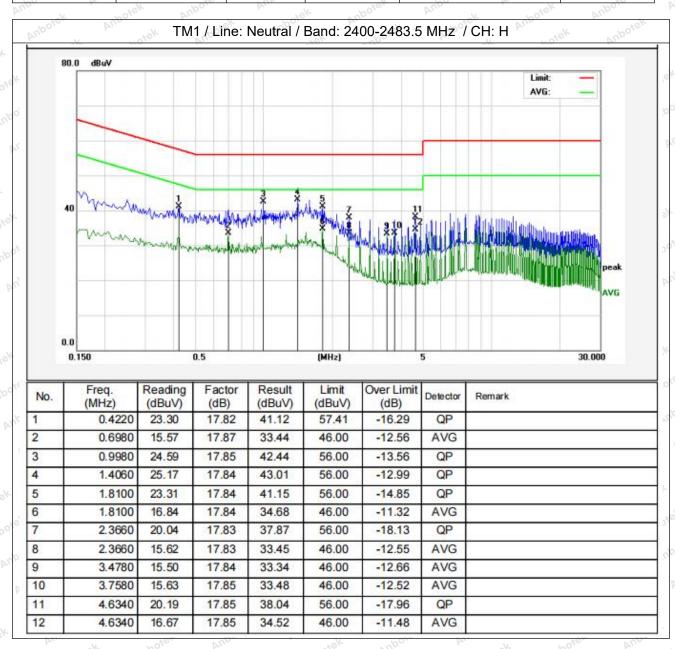






Report No.: 18220WC40024001 FCC ID: 2BE99-AERIS Page 16 of 32

Temperature: 23.5 °C Humidity: 55.8 % Atmospheric Pressure: 101 kPa



Note:Only record the worst data in the report.







Report No.: 18220WC40024001 FCC ID: 2BE99-AERIS Page 17 of 32

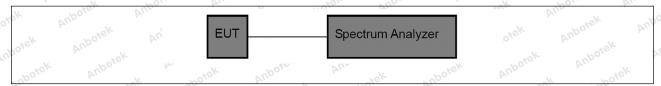
4. Occupied Bandwidth

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
Anbotek Anbotek	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.
Anborek Anbor	b) Set the VBW ≥ [3 × RBW]. c) Detector = peak. d) Trace mode = max-hold.
	e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize.
Procedure:	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 amplitude" value, then it shall be as close as possible to this value.
	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.
Anbotek Anbote	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 Envi	ronment:	Anbandiek	anbotek	Aupo, ak	potek	Anbore
Test mode:	1: TX mode: Kee modulation.	ep the EUT in o	continuously	transmitting m	ode with GFSK	Aupoter

4.2. Test Setup









Report No.: 18220WC40024001 FCC ID: 2BE99-AERIS Page 18 of 32

4.3. Test Data

Contract	Temperature:	25.2 °C	Humidity:	43 %	Atmospheric Pressure:	101 kPa	
ı	Tomporature.	P20.2 0	Mi fulfillalty.5	TO 70 P	7 turiospricito i ressure.	IOIKIA	





Report No.: 18220WC40024001 FCC ID: 2BE99-AERIS Page 19 of 32

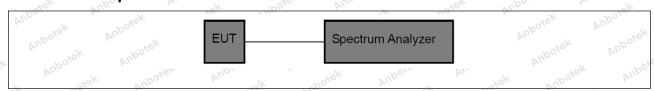
5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek 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 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	ronment:	abotek	Anbore	Vu., Potek	Anbotek	Aug	7000
Test mode:	1: TX mode: modulation.	Keep the El	JT in continu	ously transm	itting mode w	vith GFSK	

5.2. Test Setup



5.3. Test Data

70,	Temperature:	25.2 °C	Humidity:	43 %	Atmospheric Pressure:	101 kPa	





Report No.: 18220WC40024001 FCC ID: 2BE99-AERIS Page 20 of 32

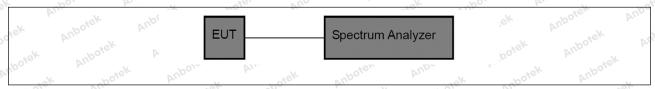
6. Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Limit:	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

Operating Envir	onment:	hoiek	Anboten	Anbo	k abotek	Aupo	-x	hoick
Test mode:	1: TX mo modulati		p the EUT ir	continuous	ly transmittin	g mode wi	th GFSK	Anbotek

6.2. Test Setup



6.3. Test Data

	Temperature:	25.2 °C		Humidity:	43 %	Atmospheric Pressure:	101 kPa
--	--------------	---------	--	-----------	------	-----------------------	---------





Report No.: 18220WC40024001 FCC ID: 2BE99-AERIS Page 21 of 32

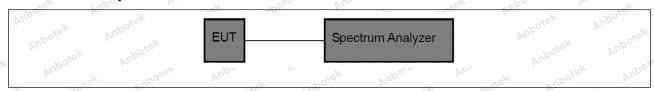
7. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Anbotek	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.
Test Method:	ANSI C63.10-2020 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3

7.1. EUT Operation

×	Operating Envir	onment:	abotek	Aupore	Aug	Anbotek	Yupo.	700
,0	Test mode:	1: TX mode: modulation.	Keep the El	JT in continu	ously transm	itting mode w	ith GFSK	k Vi

7.2. Test Setup



7.3. Test Data

Temperature:	25.2 °C	Humidity:	43 %	Atmospheric Pressure:	101 kPa
100			VU.	-0/00°	- Pri





FCC ID: 2BE99-AERIS Page 22 of 32 Report No.: 18220WC40024001

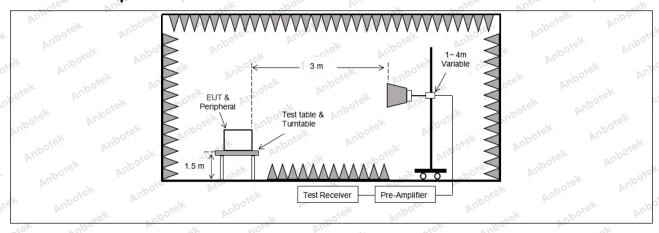
8. Band edge emissions (Radiated)

Pur Projek	Defends 47 OFD 45 047(-1)		Nation follows the
Tabolen And		In addition, radiated emissions	
Test Requirement:		d in § 15.205(a), must also comp	
Vupo, Vi	radiated emission limits spe	ecified in § 15.209(a)(see § 15.2	05(c)). _x
k hotek Anbo.	Frequency (MHz)	Field strength	Measurement
AM	lotek Aupo, W.	(microvolts/meter)	distance
otek Anbore An	ok hotek Anbi	atek anbore	(meters)
o tek	0.009-0.490	2400/F(kHz)	300 mboto
abotek Anbe	0.490-1.705	24000/F(kHz)	30
atek "Doter"	1.705-30.0	30°, h, h,	30
Anbo. A. Stek	30-88	100 **	3 ek anbore
Spotek Anbu	88-216	150 **	3
VII. Pose	216-960	200 **	3boten And
Anbor Ar	Above 960	500	3 rek no
Test Limit:	** Except as provided in pa	ragraph (g), fundamental emissi	ons from
Die VII.		ng under this section shall not b	
hotek Anbo,	frequency bands 54-72 MH	z, 76-88 MHz, 174-216 MHz or	470-806 MHz.
ur spotek		hese frequency bands is permitt	ed under other
Anboro Arri	sections of this part, e.g., §		tek aboten
hotek Anbore		e, the tighter limit applies at the b	
Ant boie		in the above table are based on	
Anbore Ana		peak detector except for the freq	
k hotek Anbe		above 1000 MHz. Radiated emis	
YEL YUDU		ed on measurements employing	an average
tek spore. A	detector.	oc. k. Hek Moyer	Vur.
Test Method:	ANSI C63.10-2020 section	6.10° And	
rest welliou.	KDB 558074 D01 15.247 M	leas Guidance v05r02	ok hotek
Procedure:	ANSI C63.10-2020 section	6.10.5.2	Pur Yun

8.1. EUT Operation

Operating Envi	onment:	Anbotek	Anbo.	k hoje	k Aupote,	Ans	otek .	70,0
Test mode:	1: TX mode: k modulation.	(eep the EUT	in continu	ously transm	nitting mode v	vith GFSK	Vupo _{tek}	

8.2. Test Setup







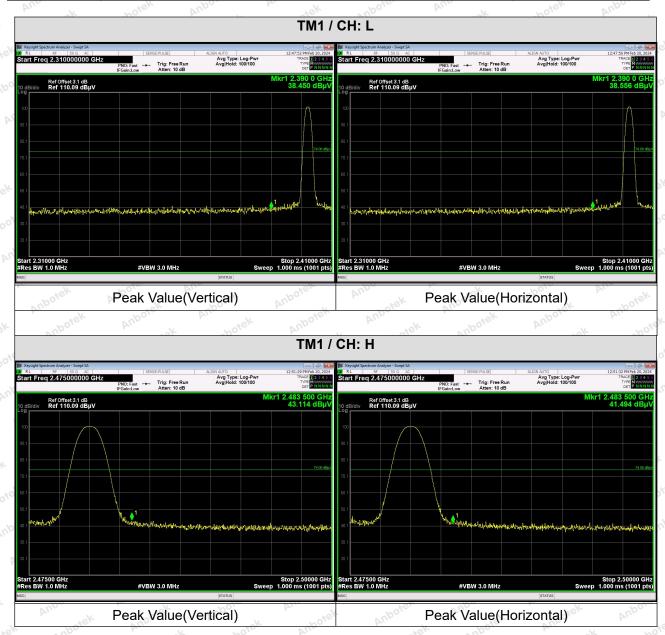




Report No.: 18220WC40024001 FCC ID: 2BE99-AERIS Page 23 of 32

8.3. Test Data

Temperature: 25.2 °C Humidity: 43 % Atmospheric Pressure: 101 kPa



Remark: When the PK measure result value is less than the AVG limit value, the AV measure result values test not applicable.







Report No.: 18220WC40024001 FCC ID: 2BE99-AERIS Page 24 of 32

9. Emissions in frequency bands (below 1GHz)

Test Requirement:	restricted bands, as defin radiated emission limits s	pecified in § 15.209(a)(see § 15	
ek Anbotek Anbo	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300 Mport
ofer Ande	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30° Ack	30
	30-88	100 **	3rek noon
anboren Anbe	88-216	150 **	AT 3
	216-960	200 **	3 pore An
	Above 960	500 Solek Andrew	3
Test Limit: Arbotek Ar	intentional radiators opera frequency bands 54-72 M	paragraph (g), fundamental emis ating under this section shall not IHz, 76-88 MHz, 174-216 MHz o	be located in the or 470-806 MHz.
Test Limit; otek Anbotek	intentional radiators operafrequency bands 54-72 M However, operation within sections of this part, e.g., In the emission table abo The emission limits show employing a CISPR quas 90 kHz, 110–490 kHz and	ating under this section shall not IHz, 76-88 MHz, 174-216 MHz on these frequency bands is perm	t be located in the or 470-806 MHz. nitted under other band edges. on measurements equency bands 9-nission limits in
Test Limit: Anborek Anborek Anborek Anborek Anborek Anborek Anborek	intentional radiators operafrequency bands 54-72 M However, operation within sections of this part, e.g., In the emission table about the emission limits show employing a CISPR quas 90 kHz, 110–490 kHz and these three bands are bar	ating under this section shall not IHz, 76-88 MHz, 174-216 MHz on these frequency bands is perm §§ 15.231 and 15.241. IVE, the tighter limit applies at the in the above table are based of i-peak detector except for the fred above 1000 MHz. Radiated emsed on measurements employing in 6.6.4	t be located in the or 470-806 MHz. nitted under other band edges. on measurements equency bands 9-nission limits in

9.1. EUT Operation

o¹	Operating Envir	onment:	upotek	Anbo.	w. potek	Anbore.	Ans	stek.	20
70,	Test mode:	1: TX mode: k modulation.	(eep the EUT	in continuou	ısly transmitt	ing mode wi	th GFSK	Aupolek 20	

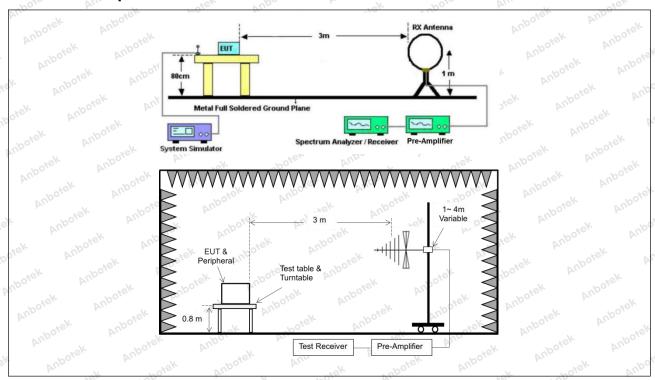


Hotline



Report No.: 18220WC40024001 FCC ID: 2BE99-AERIS Page 25 of 32

9.2. Test Setup





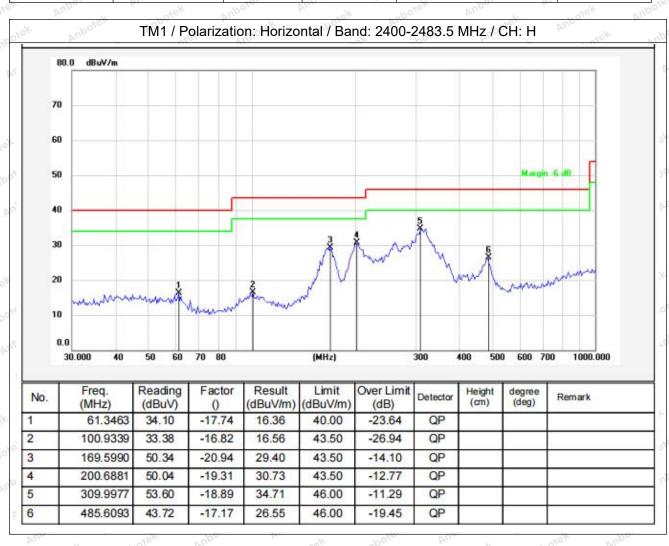


Report No.: 18220WC40024001 FCC ID: 2BE99-AERIS Page 26 of 32

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.

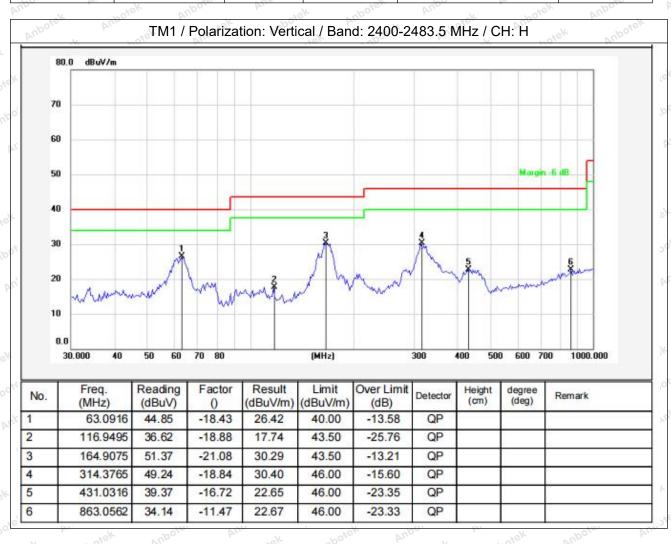
Temperature:	25.2 °C	VUL	Humidity:	43%	Atmospheric Pressure:	101 kPa
	-1:0			V.O. 12		A





Report No.: 18220WC40024001 FCC ID: 2BE99-AERIS Page 27 of 32

Temperature: 25.2 °C Humidity: 43 % Atmospheric Pressure: 101 kPa



Note: Only record the worst data in the report.









Page 28 of 32 Report No.: 18220WC40024001 FCC ID: 2BE99-AERIS

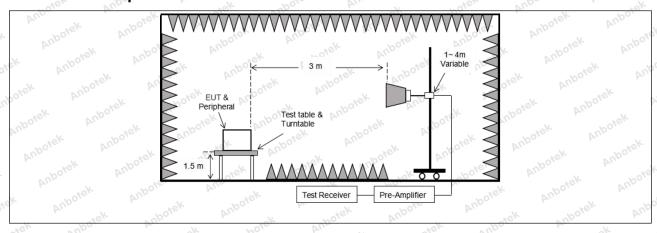
10. Emissions in frequency bands (above 1GHz)

PUD. FSK	Pole VII.	- Super Full	isk jeon
Test Requirement:		ons which fall in the restricted back comply with the radiated emission 5(c)) `	
k Aupotek Aupot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
'upote, Yur Potek	0.490-1.705 1.705-30.0	24000/F(kHz) 30	30
	30-88	100 **	3.ek anborek
Spotek Anbo	88-216	150 **	3
	216-960	200 **	3 bores And
Test Limit;	Above 960	500	3 rek on
	intentional radiators operatifrequency bands 54-72 MH However, operation within the sections of this part, e.g., § In the emission table above The emission limits shown employing a CISPR quasi-part of the emission table above 100 miles and	ragraph (g), fundamental emissing under this section shall not be z, 76-88 MHz, 174-216 MHz or hese frequency bands is permitt § 15.231 and 15.241. The tighter limit applies at the bein the above table are based on beak detector except for the frequency above 1000 MHz. Radiated emisted on measurements employing	e located in the 470-806 MHz. ed under other and edges. measurements uency bands 9— ssion limits in
Test Method:	ANSI C63.10-2020 section KDB 558074 D01 15.247 M		ak Anbotek
Procedure:	ANSI C63.10-2020 section	6.6.4 Ant	ote. Aug

10.1. EUT Operation

o¹	Operating Envir	onment:	upotek	Anbo.	w. potek	Anbore.	Ans	stek.	20
70,	Test mode:	1: TX mode: k modulation.	(eep the EUT	in continuou	ısly transmitt	ing mode wi	th GFSK	Aupotek 20	

10.2. Test Setup









Page 29 of 32 FCC ID: 2BE99-AERIS Report No.: 18220WC40024001

10.3. Test Data

Temperature: 25.2 °C	Humidity: 43 %	Atmospheric Pressure:	101 kPa
----------------------	----------------	-----------------------	---------

VII.	hoten A	up	rek anbi	Die Vi.	ak hoter	Anba
			TM1 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	28.67	15.27	43.94	74.00	-30.06	Vertical
7206.00	28.70	18.09	46.79	74.00	-27.21	Vertical
9608.00	29.62	23.76	53.38	74.00	-20.62	Vertical
12010.00	Aupo, *	isotek ar	OO, SL.	74.00	Sk Vupo,	Vertical
14412.00	Vupo * cr	Aug	shotek Ar	74.00	otek anboy	Vertical
4804.00	28.32	15.27	43.59	74.00	-30.41	Horizontal
7206.00	29.30	18.09	47.39	74.00	-26.61	Horizontal
9608.00	28.20	23.76	51.96	74.00	-22.04	Horizontal
12010.00	-otek * Anbot	Vu _D	ek abotek	74.00	i otek	Horizontal
14412.00	***	ootek Anbo	V 100	74.00	Array sek	Horizontal
Average valu	e:					***
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4804.00	16.94	15.27	32.21	54.00	-21.79	Vertical
7206.00	17.75	18.09	35.84	54.00	-18.16	Vertical
9608.00	19.09	23.76	42.85	54.00	-11.15	Vertical
12010.00	sek *	oter Ano	ok hote	54.00	p.o.	Vertical
14412.00	YUPO, *	work and	ore. Pur	54.00	V Viloo.	Vertical
4804.00	16.65	15.27	31.92	54.00	-22.08	Horizontal
7206.00	18.33	18.09	36.42	54.00	-17.58	Horizontal
9608.00	17.71	23.76	41.47	54.00	-12.53	Horizontal
12010.00	¥400	k hoiek	Aupore	54.00	anbotek P	Horizontal
14412.00	otek * Anbote	Du.	r abotel	54.00	i o'ek	Horizontal



Report No.: 18220WC40024001 FCC ID: 2BE99-AERIS Page 30 of 32

tek Aupor	Air.	, upoten	AUD	hotek	Anbor P	"sek
			TM1 / CH: M			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4880.00	28.22	15.42	43.64	74.00	-30.36	Vertical
7320.00	28.67	18.02	46.69	74.00	-27.31	Vertical
9760.00	29.12	23.80	52.92	74.00	-21.08	Vertical
12200.00	lek * Anbore	Vu.,	Shotek	74.00	Lotek	Vertical
14640.00	* * * *	iek Vupo,	A. otek	74.00	Aug	Vertical
4880.00	28.13	15.42	43.55	74.00	-30.45	Horizontal
7320.00	29.17	18.02	47.19	74.00	-26.81	Horizontal
9760.00	27.92	23.80	51.72	74.00 M	-22.28	Horizontal
12200.00	Vu. *	Spojek	Vupo.	74.00	pole Vie	Horizontal
14640.00	VLDG.	Lotek Lotek	Anbores	74.00	abotek Ar	Horizontal
Average valu	e:					
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4880.00	17.03	15.42	32.45	54.00	-21.55	Vertical
7320.00	17.61	18.02	35.63	54.00	-18.37	Vertical
9760.00	18.94	23.80	42.74	54.00	-11.26	Vertical
12200.00	VU.	Potek	Aupo	54.00	nbotel An	Vertical
14640.00	ek * Aupore	Vu.	hotek	54.00	hotek	Vertical
4880.00	16.76	15.42	32.18	54.00	-21.82	Horizontal
7320.00	18.68	18.02	36.70	54.00	-17.30	Horizontal
9760.00	18.01	23.80	41.81	54.00	-12.19	Horizontal



Report No.: 18220WC40024001 FCC ID: 2BE99-AERIS Page 31 of 32

		The second secon			
		TM1 / CH: H			
Reading	Factor	Result	Limit	Over Limit	polarization
(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	polarization
28.35	15.58	43.93	74.00	-30.07	Vertical
28.83	17.93	46.76	74.00	-27.24	Vertical
29.82	23.83	53.65	74.00	-20.35	Vertical
* V.	ek abotek	Aupo	74.00	Aupole	Vertical
botck * Anbo	PA.	ek upores	74.00	botek	Vertical
28.27	o ¹⁰ 15.58 M	43.85	74.00	-30.15	Horizontal
29.38	17.93	47.31	74.00	-26.69	Horizontal
28.30	23.83	52.13	74.00	-21.87	Horizontal
* iek	Aupor	P.U.	74.00	D	Horizontal
VA.	abotek	Vupo,	74.00	Vupoie, Vu	Horizontal
ie:					
Reading	Factor	Result	Limit	Over Limit	
(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	polarization
18.15	15.58	33.73	54.00	-20.27	Vertical
18.88	17.93	36.81	54.00	-17.19	Vertical
19.59	23.83	43.42	54.00	-10.58	Vertical
VUA.	is o'rek	Auport	54.00	abotek Ant	Vertical
tek *Upoter	Ann	botek	54.00	otek.	Vertical
17.94	15.58	33.52	54.00	-20.48	Horizontal
19.48	17.93	37.41	54.00	-16.59	Horizontal
18.16	23.83	41.99	54.00	-12.01	Horizontal
	(dBuV) 28.35 28.83 29.82 * 28.27 29.38 28.30 * * Reading (dBuV) 18.15 18.88 19.59 * 17.94 19.48	(dBuV) (dB/m) 28.35	(dBuV) (dB/m) (dBuV/m) 28.35 15.58 43.93 28.83 17.93 46.76 29.82 23.83 53.65 * * 28.27 15.58 43.85 29.38 17.93 47.31 28.30 23.83 52.13 * * Ie: Reading (dBwV) (dB/m) (dBwV/m) 18.15 15.58 33.73 18.88 17.93 36.81 19.59 23.83 43.42 * * 17.94 15.58 33.52 19.48 17.93 37.41	Reading	Reading (dBuV) Factor (dB/m) Result (dBuV/m) Limit (dBuV/m) Over Limit (dB) 28.35 15.58 43.93 74.00 -30.07 28.83 17.93 46.76 74.00 -27.24 29.82 23.83 53.65 74.00 -20.35 * 74.00 -20.35 * 74.00 -30.15 29.38 17.93 47.31 74.00 -26.69 28.30 23.83 52.13 74.00 -21.87 * 74.00 -21.87 -21.87 * 74.00 -21.87 * 74.00 -21.87 * 74.00 -21.87 * 74.00 -21.87 * 74.00 -21.87 * 74.00 -21.87 * 74.00 -20.27 18.85 15.58 33.73 54.00 -20.27 18.88 17.93 36.81 54.00 -10.58 * 54.00

Remark:

- Result =Reading + Factor
- 2. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.





Report No.: 18220WC40024001 FCC ID: 2BE99-AERIS Page 32 of 32

APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

