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# **FCC Test Report**

Launch Tech Co., Ltd. **Applicant** 

Launch Industrial Park, North of Wuhe Road, Address

Bantian Street, Longgang District, Shenzhen

City, Guangdong Province, P.R. China.

**Automotive Diagnosis Terminal Product Name** 

: Oct. 08, 2023 **Report Date** 

Compliance Laboratory

Anbotek

Anbotek Shenzhen Anbotek Compliance Laboratory Limited







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# TEST REPORT

Launch Tech Co., Ltd. Applicant

Manufacturer Launch Tech Co., Ltd.

**Product Name** Automotive Diagnosis Terminal

DBScar VII 2.0 Test Model No.

: N/A Reference Model No.

Trade Mark LAUNCH

Input: 9-18VDC, 150mA Rating(s)

47 CFR Part 15.247 Test Standard(s)

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. 00, 2023
	Anbotek Anbotek Anbote All botek
Date of Test:	Sept. 06, 2023 to Sept. 27, 2023
	Tu Tu Hong
Prepared By:	And And And
Anbotek Anbotek Anbore Am	(TuTu Hong)
oter Ando tek shotek Andor An	And sek abotek
	Idward pan
Approved & Authorized Signer:	And atek Anbotek Anb
Potek Aupor Ali.	(Edward Pan)





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### **Revision History**

	Report Version	Description	Issued Date
	Anbore R00 botek An	Original Issue.	Oct. 08, 2023
97	W. Aupotek Aupotek	Anbotek Anbotek Anbotek	K Anbotek Anbotek Ant
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### 1. General Information

### 1.1. Client Information

Applicant	:	Launch Tech Co., Ltd.
Address	:	Launch Industrial Park, North of Wuhe Road, Bantian Street, Longgang District, Shenzhen City, Guangdong Province, P.R. China.
Manufacturer	:	Launch Tech Co., Ltd.
Address	:	Launch Industrial Park, North of Wuhe Road, Bantian Street, Longgang District, Shenzhen City, Guangdong Province, P.R. China.

### 1.2. Description of Device (EUT)

riek nabe		All steel and the steel and th
Product Name	:	Automotive Diagnosis Terminal
Test Model No.	:	DBScar VII 2.0
Reference Model No.		N/A Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	LAUNCH
Test Power Supply		DC 12V
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A Andrew Anbotek Anbotek Anbotek Anbotek Anbotek
RF Specification		
Operation Frequency		2402MHz to 2480MHz
Number of Channel	:	79 De Anbotek Anbotek Anbotek Anbotek Anbotek
Modulation Type	:	GFSK, π/4 DQPSK, 8DPSK
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)		2.08 dBi hotek Anbotek Anbotek Anbotek Anbotek

#### 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.





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### 1.3. Auxiliary Equipment Used During Test

	Title	Manufacturer	Model No.	Serial No.		
	AUTO Smart Diagnostic Tool	Launch Tech Co., Ltd.	OADD-WO0805A	Aupores, Aug		
101	Adapter	Launch Tech Co., Ltd.	XDJ361R-050500	ek Aupolitek		





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### 1.4. Operation channel list

hoge.							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
P.O. O. Sop	2402	20	2422	40 borek	2442	60	2462
· 1 <sub>Anbote</sub>	2403	× 21 00°	2423	41	2443 hote	61	2463
tek 2 Anb	2404	22	otek 2424 Mbo	42	2444	62 And	2464
New 3	2405	23	2425	43	2445	63	2465
4	2406	<sup>nb0</sup> 24	2426	Arrbo144	2446	64	2466
Anbot 5	2407	25	2427	45	2447	65	2467
A 6	2408	26	2428	46	2448	66	2468
Zupore.	2409	27, noote	2429	47 bot	2449	67	2469
iek 8 Aupo	2410	, 28 , no	2430	48	2450 Anb	68	2470
notek 9	2411 And	29	2431	49	2451	<sup>69</sup>	2471
10	2412	30	2432	Anbotto	2452	70 no	2472
And 11,ek	2413	Anba 31	2433	51	2453	7.1	2473
12	2414	32	2434	52°	2454	72	2474
13	2415	33 <sup>1/2016</sup>	2435	× 53, nbot	2455	73	2475 botto
14 Anbo	2416	rek 34 Anb	2436	sex 54 m	2456 Maria	74	2476 And
otek 15 An	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	Anbot 76	2478
1704	2419	And 37, 64	2439	Anbore	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59 nbote	2461	ek - Mbot	- Anbor

### 1.5. Description of Test Modes

Pretest Modes	Descriptions
Anbotek TM1otek Anbo	Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
Anborek TM2 nborek	Keep the EUT in continuously transmitting mode (non-hopping) with π/4-DQPS modulation.
TM3 And Thorek	Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
TM4 Anborek	Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation,.
Anborrek TM5 tek Anborren	Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ -DQPS modulation.
Anborek TM6, borek Ar	Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.





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### 1.6. Measurement Uncertainty

Parameter	Uncertainty			
Conducted emissions (AMN 150kHz~30MHz)	3.8dB			
Occupied Bandwidth	925Hz			
Conducted Output Power	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 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.





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### 1.7. Test Summary

Test Items	Test Modes	Status
Antenna requirement	ek Anbotek / Anbote	P
Conducted Emission at AC power line	atel Anbotel Anbote	N <sup>AMB</sup>
Occupied Bandwidth	Mode1,2,3	P Pu
Maximum Conducted Output Power	Mode1,2,3	nbore P
Channel Separation	Mode4,5,6	Anbor
Number of Hopping Frequencies	Mode4,5,6	AP
Dwell Time	Mode4,5,6	Panboa
Emissions in non-restricted frequency bands	Mode1,2,3,4,5,6	P Ant
Band edge emissions (Radiated)	Mode1,2,3	nbore P
Emissions in frequency bands (below 1GHz)	Mode1,2,3	Anbore P
Emissions in frequency bands (above 1GHz)	Mode1,2,3	ATP
Note: P: Pass N: N/A not applicable	otek Anbotek Anbotek	Hek Vupose

N: N/A, not applicable





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### 1.8. Description of Test Facility

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

#### FCC-Registration No.:184111

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. 184111.

#### 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.518128

#### 1.9. Disclaimer

- 1. 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.





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### 1.10. Test Equipment List

Occupied Bandwidth

Maximum Conducted Output Power

Channel Separation

Number of Hopping Frequencies

**Dwell Time** 

Emissions in non-restricted frequency bands

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
nbotek	MXG RF Vector Signal Generator	Agilent	N5182A	MY481806 56	2022-10-13	2023-10-12
2	Power Meter	Agilent	N1914A	MY500011 02	2022-10-26	2023-10-25
3	DC Power Supply	IVYTECH	IV3605	1804D360 510	2022-10-22	2023-10-21
e <sup>1</sup> 4	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY505318 23	2023-02-23	2024-02-22
,b0 <b>5</b> K	Oscilloscope	Tektronix	MDO3012	C020298	2022-10-19	2023-10-18

	edge emissions (Ra sions in frequency ba		ak Anbore.	iek Vupo,	ek Anbotek	Anbor shorek
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
e¥ 1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2022-10-23	2023-10-22
2	EMI Preamplifier	SKET Electronic	LNPA- 0118G-45	SKET-PA- 002	2022-10-13	2023-10-12
An <mark>3</mark> otel	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	2025-10-15
4.nb	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A nbott	otek Anbore	r Wpotek
5	Horn Antenna	A-INFO	LB-180400- KF	J21106062 8	2022-10-23	2023-10-22
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	2024-05-25
7 tek	Amplifier	Talent Microwave	TLLA18G40 G-50-30	23022802	2023-05-25	2024-05-24

Emiss	Emissions in frequency bands (below 1GHz)							
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date		
1	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2022-10-23	2023-10-22		
2	Pre-amplifier	SONOMA	310N	186860	2022-10-23	2023-10-22		
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	2025-10-22		
4	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	tek / Anbotek	ek Anborek		







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### 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 **2.08 dBi**. It complies with the standard requirement.





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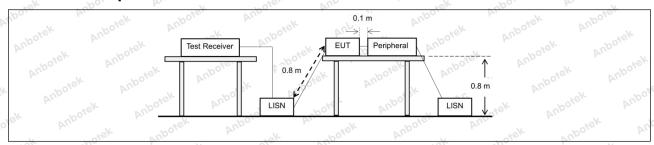
### 3. Conducted Emission at AC power line

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 tha ny frequency or frequencie t exceed the limits in the f	nnected to the at is conducted es, within the following table, as			
shotek Anbore	Frequency of emission (MHz)	Conducted limit (dBµV)				
Ans sek abotek	Anbore Anbore	Quasi-peak	Average			
Anbor Arr	0.15-0.5	66 to 56*	56 to 46*			
Test Limit:	0.5-5 tek nbote Am	56 Borel An	46			
Ant both	5-30 And State of Sta	60	50 reh And			
k Wuporg Wu.	*Decreases with the logarithm of the frequency.					
Test Method:	ANSI C63.10-2020 section 6.2	Projek Auporen	Ans			
Procedure:	Refer to ANSI C63.10-2020 section line conducted emissions from un					

### 3.1. EUT Operation

	Operating Envir	onment:	Anborr	bojek .	Aupole.	Aug ofek	Anbotek	Vupo.
3,4	Test mode:	1 aboiek	Anboro	VII. Potek	Anbotek	Anbo	hotek	Anbo

### 3.2. Test Setup



### 3.3. Test Data

Not Applicable.

The EUT is powered by DC 12V, so there is no need for conducted emission test



Hotline



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### 4. Occupied Bandwidth

Test Requirement:	47 CFR 15.215(c)
Test Limit:  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Method:	ANSI C63.10-2020, section 7.8.6, For occupied bandwidth measurements, use the procedure in 6.9.3. Frequency hopping shall be disabled for this test.
Anbotek	The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:  a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.6.2.
Procedure:	d) Step a) through step c) might require iteration to adjust within the specified range.
	e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.
	f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
	g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are
	placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99%
	power bandwidth is the difference between these two frequencies.  h) The occupied bandwidth shall be reported by providing spectral plot(s) of the measuring instrument display; the plot axes and the scale units per
hotek Anbotek	division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

# 4.1. EUT Operation

Operating Envir	onment:	Anbotek	Aupo.	hotek	Anbore	And	Anbore
Test mode:	1: TX-GFSK hopping) wit			ne EUT in c	ontinuously t	ransmitting mod	le (non-





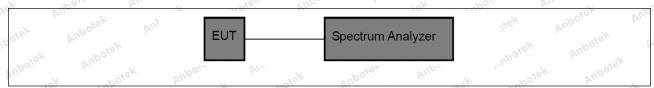


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2: TX- $\pi$ /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with  $\pi$ /4-DQPS modulation.

3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.

### 4.2. Test Setup



### 4.3. Test Data

Temperature:   25.3 °C   Humidity:   48 %   Atmospheric Pressure:   102 k	Temperature: 25	perature: 25.3 °C	Humidity:	48 %	Atmospheric Pressure:	102 kPa
---------------------------------------------------------------------------	-----------------	-------------------	-----------	------	-----------------------	---------





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### 5. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit: ek Anborek Anborek Anborek	Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test Method:	ANSI C63.10-2020, section 7.8.5
Anbotek	This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. Frequency hopping shall be disabled for this test. Use the following spectrum analyzer settings:  a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel. b) RBW > 20 dB bandwidth of the emission being measured. c) VBW ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak.
Procedure:	f) Trace: Max-hold. g) Allow trace to stabilize.
	<ul><li>h) Use the marker-to-peak function to set the marker to the peak of the emission.</li><li>i) The indicated level is the peak output power, after any corrections for</li></ul>
botek Anbotek	external attenuators and cables.  j) A spectral plot of the test results and setup description shall be included in the test report.
	NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

# 5.1. EUT Operation

70	Operating Envi	nment: who have an arrow and a set to the se
i.	Test mode:	1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation. 2: TX-π/4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with π/4-DQPS modulation. 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.

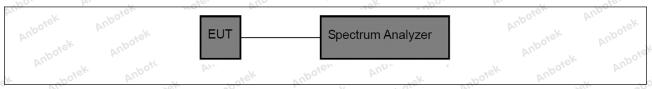






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### 5.2. Test Setup



### 5.3. Test Data

Temperature:	25.3 °C	Humidity:	48 %	Atmospheric Pressure:	102 kPa
Tomporataro.	20.0	i i di i ii di i i j	10 1/0	/ tarrioopriorio i roccaro.	102 111 001





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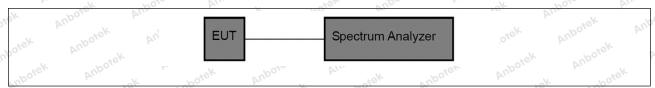
### 6. Channel Separation

in in the second	1 700, by
Test Requirement:	47 CFR 15.247(a)(1)
Test Limit:  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek	Refer to 47 CFR 15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.
Test Method:	ANSI C63.10-2020, section 7.8.2
Anborek	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:  a) Span: Wide enough to capture the peaks of two adjacent channels. b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel. c) Video (or average) bandwidth (VBW) ≥ RBW. d) Sweep: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize.  Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A spectral plot of the data shall be included in the test report.

# 6.1. EUT Operation

Operating Envi	ronment:	And	abotek	Aupor	Pr. Potek	Anbo
Test mode:	4: TX-GFSK (Hopping): with GFSK modulation,. 5: TX-π/4-DQPSK (Hopping) with π/4-DQP 6: TX-8DPSK (Hopping) with 8DPSK modulation	ping): Keep the l S modulation. EKeep the EUT	EUT in con	tinuously trans	smitting mode	ek e

### 6.2. Test Setup



### 6.3. Test Data

Temperature:	25.3 °C	Humidity:	48 %	Atmospheric Pressure:	102 kPa
17	- 01	P11.	-01	- A01	01,









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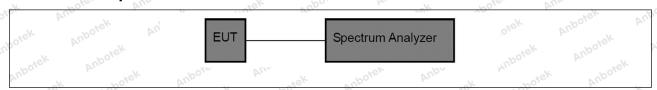
### 7. Number of Hopping Frequencies

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2020, section 7.8.3
Anbotek Anbotek Anbotek Anbotek Anbotek	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:  a) Span: The frequency band of operation. Depending on the number of channels the device supports, it could be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen. b) RBW: To identify clearly the individual channels, set the RBW to less than
Procedure:  Anborek  Anborek  Anborek	<ul> <li>30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.</li> <li>c) VBW ≥ RBW.</li> <li>d) Sweep: No faster than coupled (auto) time.</li> <li>e) Detector function: Peak.</li> <li>f) Trace: Max-hold.</li> </ul>
tek Anbotek Anbotek Anbotek Anbotek	g) Allow the trace to stabilize.  It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A spectral plot of the data shall be included in the test report.

### 7.1. EUT Operation

Operating Envi	ronment:	Aupo	aboiek	Aupoi	, hotek	Anbotes	Aupo
Test mode:	with GFSK 5: TX-π/4-E (hopping) w 6: TX-8DPS	K (Hopping): Ke modulation, DQPSK (Hoppin vith π/4-DQPS r SK (Hopping): K K modulation.	g): Keep the modulation.	EUT in con	tinuously trans	mitting mode	oriek Boriek

### 7.2. Test Setup



### 7.3. Test Data

Temperature:	25.3 °C	VUD.	Humidity:	48 %	Atmospheric Pressure: 1	02 kPa









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### 8. Dwell Time

Aupor Armin	potek Aupo k. otek aupote Aug sk potek
Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2020, section 7.8.4
Anbotek Anbotek Anbotek Anbotek	The dwell time per hop on a channel is the time from the start of the first transmission to the end of the last transmission for that hop. If the device has a single transmission per hop then the dwell time is the duration of that transmission. If the device has a multiple transmissions per hop then the dwell time is measured from the start of the first transmission to the end of the last transmission.
	The time of occupancy is the total time that the device dwells on a channel over an observation period specified in the regulatory requirement. To determine the time of occupancy the spectrum analyzer will be configured to measure both the dwell time per hop and the number of times the device transmits on a specific channel in a given period.
potek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Procedure:	The EUT shall have its hopping function enabled. Compliance with the requirements shall be made with the minimum and with the maximum number of channels enabled. If the dwell time per channel does not vary with the number of channels than compliance with the requirements may be based on the minimum number of channels. If the device supports different dwell times per channel (example Bluetooth devices can dwell on a channel for 1, 3 or 5 time slots) then measurements can be limited to the longest dwell time with the minimum number of channels.
	Use the following spectrum analyzer settings to determine the dwell time per hop:
	<ul> <li>a) Span: Zero span, centered on a hopping channel.</li> <li>b) RBW shall be ≤ channel spacing and where possible RBW should be set &gt;&gt; 1 / T, where T is the expected transmission time per hop.</li> <li>c) Sweep time: Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period =</li> </ul>
	1/hopping rate) should achieve this. d) Use a video trigger, where possible with a trigger delay, so that the start of the transmission is clearly observed. The trigger level might need adjustment to reduce the chance of triggering when the system hops on an adjacent channel.
k Anbotek Anbo	<ul><li>e) Detector function: Peak.</li><li>f) Trace: Clear-write, single sweep.</li><li>g) Place markers at the start of the first transmission on the channel and at the end of the last transmission. The dwell time per hop is the time between</li></ul>









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these two markers.

To determine the number of hops on a channel in the regulatory observation period repeat the measurement using a longer sweep time. When the device uses a single hopping sequence the period of measurement should be sufficient to capture at least 2 hops. When the device uses a dynamic hopping sequence, or the sequence varies, the period of measurement may need to capture multiple hops to better determine the average time of occupancy. Count the number of hops on the channel across the sweep time.

The average number of hops on the same channel within the regulatory observation period is calculated from the number of hops on the channel divided by the spectrum analyzer sweep time multiplied by the regulatory observation period. For example, if three hops are counted with an analyzer sweep time of 500 ms and the regulatory observation period is 10 s, then the number of hops in that ten seconds is  $3 / 0.5 \times 10$ , or 60 hops.

The average time of occupancy is calculated by multiplying the dwell time per hop by the number of hops in the observation period.

#### 8.1. EUT Operation

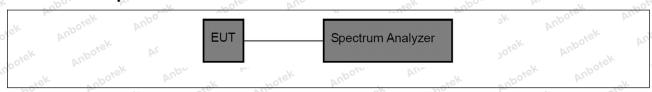
#### **Operating Environment:**

4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation..

Test mode:

- 5: TX- $\pi$ /4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with  $\pi$ /4-DQPS modulation.
- 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

#### 8.2. Test Setup



#### 8.3. Test Data

Temperature:	25.3 °C	Humidity:	48 %	Atmospheric Pressure:	102 kPa	·0'i







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### 9. Emissions in non-restricted frequency bands

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Anbotek Anbotek Anbotek Anbotek  Test Limit: 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 7.8.7
Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek  Anbotek	7.8.7.1 General considerations To demonstrate compliance with the relative out-of-band emissions requirements conducted spurious emissions shall be measured for the transmit frequencies, per 5.5 and 5.6, and at the maximum transmit powers. Frequency hopping shall be disabled for this test with the exception of measurements at the allocated band-edges which shall be repeated with hopping enabled.
	Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The frequency range of testing shall span 30 MHz to 10 times the operating frequency and this may be done in a single sweep or, to aid resolution, across a number of sweeps. The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector.
Procedure:  Anborek  Anborek  Anborek  Anborek	The limit is based on the highest in-band level across all channels measured using the same instrument settings (resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector). To help clearly demonstrate compliance a display line may be set at the required offset (typically 20 dB) below the highest in-band level. Where the highest in-band level is not clearly identified in the out-of-band measurements a separate spectral plot showing the in-band level shall be provided.
	When conducted measurements cannot be made (for example a device with integrated, non-removable antenna) radiated measurements shall be used. The reference level for determining the limit shall be established by maximizing the field strength from the highest power channel and measuring using the resolution and video bandwidth settings and peak detector as described above. The field strength limit for spurious emissions outside of restricted-bands shall then be set at the required offset (typically 20 dB) below the highest in-band level. Radiated measurements will follow the standards measurement procedures described in Clause 6 with the exception that the resolution bandwidth shall be 100 kHz, video bandwidth







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300 kHz, and a coupled sweep time with a peak detector. Note that use of wider measurement bandwidths are acceptable for measuring the spurious emissions provided that the peak detector is used and that the measured value of spurious emissions are compared to the highest in-band level measured with the 100 kHz / 300 kHz bandwidth settings to determine compliance.

#### 7.8.7.2 Band-edges

Compliance with a relative limit at the band-edges (e.g., -20 dBc) shall be made on the lowest and on the highest channels with frequency hopping disabled and repeated with frequency hopping enabled. For the latter test the hopping sequence shall include the lowest and highest channels.

For measurements with the hopping disabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of the allocated band-edge.

For measurements with the hopping enabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of both of the allocated band-edges. This could require separate spectral plots for each band-edge.

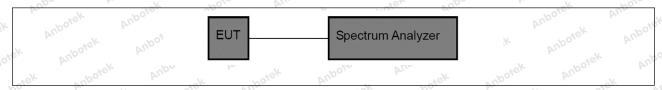
### 9.1. EUT Operation

#### **Operating Environment:**

- 1: TX-GFSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.
- 2: TX- $\pi$ /4-DQPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with  $\pi$ /4-DQPS modulation.
- 3: TX-8DPSK (Non-Hopping): Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.
- 4: TX-GFSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation..
  - 5: TX- $\pi$ /4-DQPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with  $\pi$ /4-DQPS modulation.
  - 6: TX-8DPSK (Hopping): Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.

#### 9.2. Test Setup

Test mode:



#### 9.3. Test Data

Temperature:	25.3 °C	Humidity:	48 %	Atmospheric Pressure:	102 kPa
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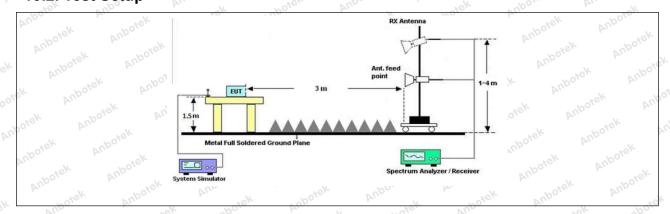
### 10. Band edge emissions (Radiated)

Test Requirement:	restricted bands, as defined	In addition, radiated emissions in § 15.205(a), must also compecified in § 15.209(a)(see § 15.20	ly with the
k Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
o. A. Lotek	0.009-0.490	2400/F(kHz)	300 Mboto
aborer And	0.490-1.705	24000/F(kHz)	30
atek Anbotes	1.705-30.0	30° , ack	30
	30-88	100 **	3rek note
T- tobotek Anbe	88-216	150 **	3
Test Limit:	216-960	200 **	3 botes And
Ando.	Above 960	500 Morel Ambou	3 rek ont
hbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operati frequency bands 54-72 MH	ragraph (g), fundamental emissi ing under this section shall not b z, 76-88 MHz, 174-216 MHz or 4 hese frequency bands is permitt	e located in the 470-806 MHz.
Test Method:	ANSI C63.10-2020 section	6.10	Anboren And
Procedure:	ANSI C63.10-2020 section	6.10.5.2	Anborek Anb

### 10.1. EUT Operation

Operating Envi	ronment:	hotek A	'upoter, Yup	rek	anbotek	Anbo.
Test mode:	1: TX-GFSK (Non hopping) with GFS 2: TX-π/4-DQPSk (non-hopping) wit 3: TX-8DPSK (No hopping) with 8DR	SK modulation. ( (Non-Hopping): Ι n π/4-DQPS modu n-Hopping): Keep	Keep the EUT i	n continuo	ously transm	nitting mode

### 10.2. Test Setup





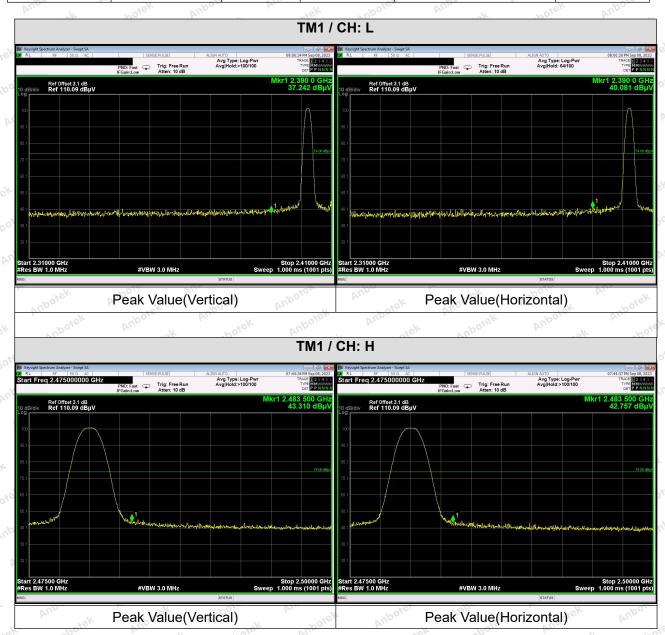




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### 10.3. Test Data

Temperature: 25.3 °C Humidity: 48 % Atmospheric Pressure: 102 kPa









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### Average:

Test Mode	Peak Value (dBuV/m)	DCCF	Average Value (dBuV/m)	Limit (dBuV/m)	Polarization	Verdict
TMA	37.242	-2.27	34.973	54.00	Vertical	Pass
TM1 / CH: L	43.310	-2.27	41.041	54.00	Horizontal	Pass
TM1 / CH: H	40.081	-2.29	37.788	54.00	Vertical	otel Pass
IMIT/CH. H	42.757	-2.29	40.464	54.00	Horizontal	Pass

#### Remark:

- 1. During the test, pre-scan all modes, the report only record the worse case mode.
- 1. DCCF=20log(Duty Cycle)
- 2. Average Value=Peak Value+DCCF





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

Test Requirement:	restricted bands, as defined	, In addition, radiated emissions d in § 15.205(a), must also comp ecified in § 15.209(a)(see § 15.2	ly with the
k Anbotek Anbot	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
o h hotek	0.009-0.490	2400/F(kHz)	300 Mport
aboren And	0.490-1.705	24000/F(kHz)	30
atek Aubotes.	1.705-30.0	30° , and	30
Anbo	30-88	100 **	3rek note
Tabotek Andre	88-216	150 **	3
Test Limit:	216-960	200 **	3 botes And
Anbo. A.	Above 960	500 Morell Ambou	3 rek ont
upotek Aupotek  Aupotek Aupotek  Aupotek Aupotek	intentional radiators operatifrequency bands 54-72 MH	ragraph (g), fundamental emissi ing under this section shall not b z, 76-88 MHz, 174-216 MHz or 4 hese frequency bands is permitt	e located in the 470-806 MHz.
Test Method:	ANSI C63.10-2020 section	6.6.4 Mark	Anbore. And
Procedure:	ANSI C63.10-2020 section	6.6.4 Anbore	Aupotek Aup

### 11.1. EUT Operation

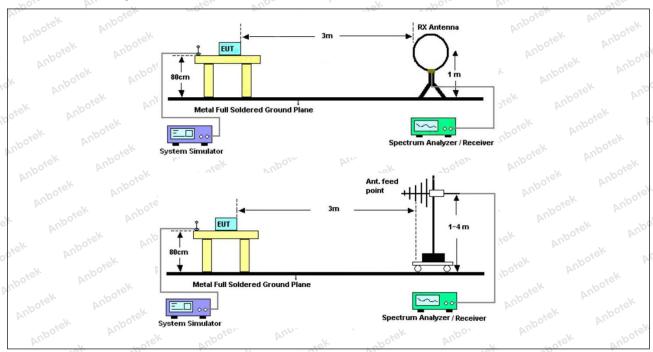
Operating Envi	ronment:			ek anbotek	
Test mode:	hopping) with GFS 2: TX-π/4-DQPSk (non-hopping) wit	K (Non-Hopping): Kee  h π/4-DQPS modulation n-Hopping): Keep the	o the EUT in co	ontinuously transr	mitting mode





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### 11.2. Test Setup



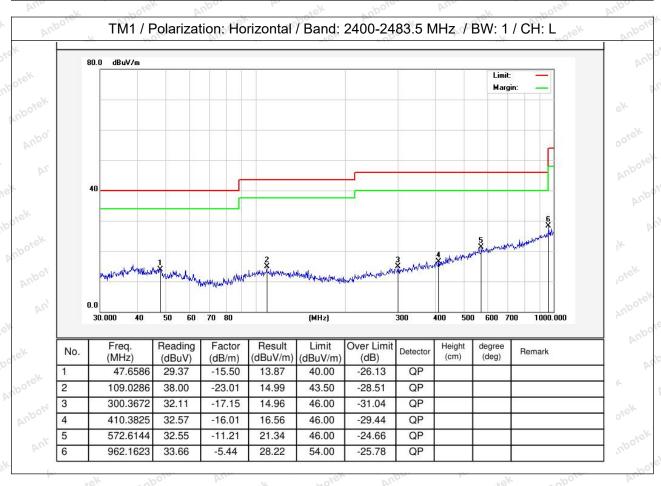




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### 11.3. Test Data

Temperature: 23.5 °C Humidity: 49 % Atmospheric Pressure: 99 kPa

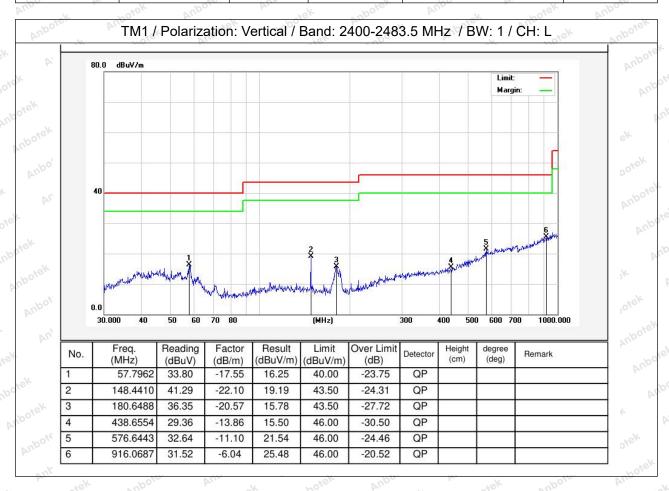






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Temperature: 23.5 °C Humidity: 49 % Atmospheric Pressure: 99 kPa









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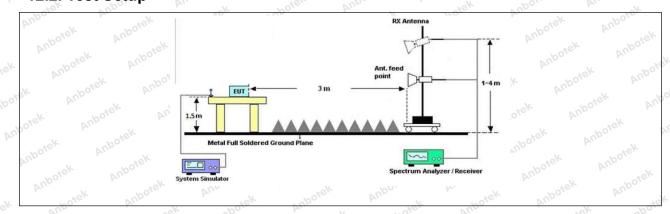
### 12. Emissions in frequency bands (above 1GHz)

Test Requirement:		ons which fall in the restricted background $S(x)$ .	
otek Vupotek Vupo.	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
, wotek	0.009-0.490	2400/F(kHz)	300 Mbore
nboren Anb	0.490-1.705	24000/F(kHz)	30
otek Anbote	1.705-30.0	30° Arek anbo	30
Anbo	30-88	100 **	3 ck nbore
T thore And	88-216	150 **	3
Test Limit:	216-960	200 **	3bore And
k Aupo, W.	Above 960	500 hotel Anbou	3 rek and
nbotek Anbotek Anbotek Anbotek Anbotek	intentional radiators operati frequency bands 54-72 MH	ragraph (g), fundamental emissi ng under this section shall not b z, 76-88 MHz, 174-216 MHz or 4 hese frequency bands is permitt	e located in the 470-806 MHz.
Test Method:	ANSI C63.10-2020 section	6.6.4 Marie	Anbote. And
Procedure:	ANSI C63.10-2020 section	6.6.4 Anbore And	Aupotek Aup

### 12.1. EUT Operation

Operating Envi	ronment:	hotek A	'upoter, Yup	rek	anbotek	Anbo.
Test mode:	1: TX-GFSK (Non hopping) with GFS 2: TX-π/4-DQPSk (non-hopping) wit 3: TX-8DPSK (No hopping) with 8DR	SK modulation. ( (Non-Hopping): Ι n π/4-DQPS modu n-Hopping): Keep	Keep the EUT i	n continuo	ously transm	nitting mode

### 12.2. Test Setup









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### 12.3. Test Data

Vun ok	hotek Anb		atek anboti	Ans.	k hotek	Anbo.
			TM1 / CH: L			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	28.76	15.27	44.03	74.00	-29.97	Vertical
7206.00	29.65	18.09	47.74	74.00	-26.26	Vertical
9608.00	31.02	23.76	54.78	74.00	-19.22	Vertical
12010.00	Anboie * A	iek.	abotek Anb	74.00	otek Anbote	Vertical
14412.00	VUPO*SIK	Aupo, ok	Potek b	74.00	siek onk	Vertical
4804.00	29.00	15.27	44.27	74.00	-29.73	Horizontal
7206.00	30.41	18.09	48.50	74.00	-25.50	Horizontal
9608.00	28.92	23.76	52.68	74.00	-21.32	Horizontal
12010.00	otek * Anbo	V. 20	iek Aupote	74.00	s abotek	Horizontal
14412.00	hotek*	boye. Yun	stek anbo	74.00	ok hotel	Horizontal
Average value: Frequency	Reading	Factor	Result	Limit	Over Limit	
(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	polarization
4804.00	18.14	15.27	33.41	54.00	-20.59	Vertical
7206.00	18.68	18.09	36.77	54.00	-17.23	Vertical
9608.00	20.04	23.76	43.80	54.00	-10.20	Vertical
12010.00	NO tek	Aupote. Au	iek .	54.00	. Br.	Vertical o
14412.00	Ant *	, upotek	Aupo.	54.00	ipole. Aug	Vertical
4804.00	17.35	15.27	32.62	54.00	-21.38	Horizontal
7206.00	19.47	18.09	37.56	54.00	-16.44	Horizontal
9608.00	18.23	23.76	41.99	54.00	-12.01	Horizontal
12010.00	-10× *	otek Aupor	-K NO!	54.00	YUP FEK	Horizontal
14412.00	Upo. *	indiek ant	oto And	54.00	ek Aupo	Horizontal



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			ГМ1 / СН: М			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	28.78	15.42	44.20	74.00	-29.80	Vertical
7323.00	29.50	18.02	47.52	74.00	-26.48	Vertical
9764.00	30.03	23.80	53.83	74.00	-20.17	Vertical
12205.00	ek * nbotek	Aupor	hotek	74.00	And	Vertical
14646.00	*	tek Wipose	Pun de	74.00	Aupo	Vertical
4882.00	28.70	15.42	44.12	74.00	-29.88	Horizontal
7323.00	30.40	18.02	48.42	74.00	-25.58	Horizontal
9764.00	28.62	23.80	52.42	74.00	-21.58	Horizontal
12205.00	*otek	Aupole.	Aug	74.00	YUpor bu	Horizontal
14646.00	Art rek	nbotek	Aupo	74.00	Anbore	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4882.00	17.87	15.42	33.29	54.00	-20.71	Vertical Vertical
7323.00	18.78	18.02	36.80	54.00	-17.20	Vertical
9764.00	19.90	23.80	43.70	54.00	-10.30	Vertical
12205.00	k *upor	N. Siek	anbotek	54.00	boiek	Vertical
14646.00	otek * Anbot	Anb	sk spojek	54.00	pi, potek	Vertical
4882.00	17.26	15.42	32.68	54.00	-21.32	Horizontal
7323.00	19.03	18.02	37.05	54.00	-16.95	Horizontal
9764.00	18.74	23.80	42.54	54.00	11.46 M	Horizontal
12205.00	anb*otek	Aupo	abotek	54.00	otek v	Horizontal
14646.00	* "otek	Anbor	All	54.00	VUD.	Horizontal





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Se VUD.	, siek	"upo,	VII.	-poles	And	ate <sup>K</sup>
		٦	ГМ1 / CH: H			
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	29.05	15.58	44.63	74.00		Vertical
7440.00	29.51	17.93	47.44	74.00	-26.56	Vertical
9920.00	30.58	23.83	54.41	74.00	-19.59	Vertical
12400.00	* ~ otek	anbore.	And	74.00	Anbo.	Vertical
14880.00	* Vup	iek upołek	Aupo.	74.00	Anbore	Vertical
4960.00	28.77	15.58	44.35	74.00	-29.65	Horizontal
7440.00	30.43	17.93	48.36	74.00	-25.64	Horizontal
9920.00	29.30	23.83	53.13	74.00	-20.87	Horizontal
12400.00	Anb * * ek	abotek	Aupo,	74.00	Tupose, Vu	Horizontal
14880.00	V.Apo.	Notek Notek	Anbores	74.00	abotek	Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
4960.00	18.99	15.58	34.57	54.00	-19.43	Vertical
7440.00	19.79	17.93	37.72	54.00	-16.28	Vertical
9920.00	20.45	23.83	44.28	54.00	-9.72	Vertical N
12400.00	* * sboick	Aupor	hotek	54.00	Aug	Vertical
14880.00	* * *	sk Vupoje.	Aug	54.00	Vupo,	Vertical
4960.00	18.70	15.58 NO	34.28	54.00	-19.72	Horizontal
7440.00	20.40	17.93	38.33 Andro	54.00	-15.67	Horizontal
9920.00	18.64	23.83	42.47	54.00 And	±11.53	Horizontal
12400.00	* totek	Anbores	Ann	54.00	100. br.	Horizontal
14880.00	An*	* Upotek	Aupo.	54.00	Aupole	Horizontal

#### Remark:

- 1. 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.
- 3. Only the worst case is recorded in the report.







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### 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 -----

