

RF Exposure Evaluation Report					
Report Reference No FCC ID	МТЕВ24070136-Н ХВЕ-СО71-2				
Compiled by (position+printed name+signature):	File administrators Alisa Luo	(Sti Sa			
Supervised by (position+printed name+signature):	Test Engineer Sunny Deng	Sam			
Approved by (position+printed name+signature):	Manager Yvette Zhou	Vatter			
Date of issue:	July 09,2024	-los			
Representative Laboratory Name. :	Shenzhen Most Technology Se	rvice Co., Ltd.			
Address:	No.5, 2nd Langshan Road, North Nanshan, Shenzhen, Guangdong				
Applicant's name	LINAK A/S				
Address	Our like the other Our descendents of C. Outles a DK 0400				
Test specification/ Standard	47 CFR Part 1.1307;47 CFR Par	t 1.1310			
	KDB447498D01 General RF Exp	oosure Guidance v06			
TRF Originator		ice Co., Ltd.			
Shenzhen Most Technology Service This publication may be reproduced in Shenzhen Most Technology Service Co material. Shenzhen Most Technology S liability for damages resulting from the placement and context.	whole or in part for non-commercia o., Ltd. is acknowledged as copyrig Service Co., Ltd. takes no responsi	ght owner and source of the bility for and will not assume			
Test item description:	CO71				
Trade Mark	LINAK				
Model/Type reference	CO7+19431T49200				
Listed Models	CO7+19431T29200, CO7+19431 CO7+19431X49200	X29200			
Modulation Type	GFSK				
Operation Frequency	From 2402MHz to 2480MHz				
Hardware Version	10908119				
Software Version	02023500				
Rating	AC 100-240V 50/60Hz				
Result	PASS				

TEST REPORT

Equipment under Test	:	CO71
Model /Type	:	CO7+19431T49200
Listed Models	:	CO7+19431T29200, CO7+19431X29200 CO7+19431X49200
Remark		All the same expect for the model name and the apparence.
Applicant	:	LINAK A/S
Address	:	Group Headquarters,Smedevænget 8, Guderup DK-6430 Nordborg, Denmark
Manufacturer	:	LINAK A/S
Address	:	Group Headquarters,Smedevænget 8, Guderup DK-6430 Nordborg, Denmark

Test Result:	PASS
--------------	------

The test report merely corresponds to the test sample.

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

1. <u>Revision History</u>

Revision	Issue Date	Revisions	Revised By
00	2024.07.09	Initial Issue	Alisa Luo

2. SAR Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

2.1.2 Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1-LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Lim	its for Occupational	/Controlled Exposure	es	
0.3–3.0	614	1.63	*(100)	2.0
3.0–30	1842/f	4.89/f	*(900/f2)	
30–300	61.4	0.163	1.0	1.9
300–1500			f/300	10
1500–100,000			5	
(B) Limits 1	or General Populati	on/Uncontrolled Exp	osure	
0.3–1.34	614	1.63	*(100)	3

0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

F= Frequency in MHz

Friis Formula Friis Formula Friis transmission formula: $Pd = (Pout^G)/(4^Pi R 2)$ Where Pd = power density in mW/cm2Pout = output power to antenna in mW G = gain of antenna in linear scalePi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

2.1.3 EUT RF Exposure

р	ட	

GFSK					
	Peak Output Power	Tune up tolerance	Maximum tune-up Power		
	(dBm)	(dBm)	(dBm)		
Lowest(2402 MHz)	-1.325	-1.325 ± 1	-0.325		
Middle(2440MHz)	-2.042	-2.042 ± 1	-1.042		
Highest(2480MHz)	-1.542	-1.542 ± 1	-0.542		

BLE

Worst case: GFSK						
Channel	Maximum tune-up Power (dBm)	Maximum tune-up Power (MW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm2)	Limit	Result
Lowest(2402 MHz)	-0.325	0.93	2.29	0.0003	1.0	Pass

Note: 1) Refer to report MTEB24070136-R for EUT test Max Conducted average Output Power value. Note: 2) Pd = $(Pout^*G)/(4^* Pi * R2)=(0.93^*1.69)/(4^*3.1416^*20^2)=0.0003$

.....THE END OF REPORT.....