Manufacturer: Tokinomo Marketing SA **Name:** Oscar Frau

Product: Tokinomo V4 **Title:** Project Handler

FCC ID: 2ASEI-TOKIV4 **Signature:** 

MPE limits (§1.1310)

Mode	Frequency	Duty Cycle	Power	Antenna Gain	EIRP[1]	EIRP	Distance	PD[2]	PD Limit[3]	Margin	2.1091 EIRP Limit	2.1091 EIRP Margin	PD/PD Limit	Worst PD/PD values to be considered
	MHz	%	dBm	dBi	dBm	mW	cm	mW/cm^2	mW/cm^2	dB	mW	dB		
BLE[4]	2480,0	100	10,32	2,5	12,82	19,1	20	0,004	1,000	24,19	1260	18,18	0,00381	
WiFi[5]	2462,0	100	17,38	2,5	19,88	97,3	20	0,019	1,000	17,13	1260	11,12	0,01935	**0,01935**
LTE B4[6]	1755	100	22,80	5	27,80	602,6	20	0,120	1,000	9,21	1260	3,20	0,11988	**0,11988**
	FCC Co-Location =	**0,13923**	**< 1**											

[1]EIRP = (Power dBm + Antenna Gain dBi) + 10 x Log (Duty Cycle % / 100)
[2]PD = EIRP / (4πxD^2)
[3]CFR 47 Part 1, §1.1310(e), table 1
[4]See FCC ID: 2AI4I-AP6212; Report No: DRTFCC1610-0133, p.
[5]See FCC ID: 2AI4I-AP6212; Report No: DRTFCC1610-0134, p. 16
[6]See Test report 444569TRFWL, §8.3
New Cellular antenna, type LY-P11-002-V1, Gain 5 dBi
New WiFi 2.4 GHz/BT antenna, type SXW-WIFI-W10, Gain 2.5 dBi

2.1091 EIRP Limit

1.1307 (b)(3)(i)(C) exemption limit

RF Source Frequency	F	R	λ	λ/2π	R/(λ/2π)	Threshold ERP	Threshold EIRP	Threshold EIRP	EIRP	Margin
MHz	MHz	m	m	m		W	W	mW	mW	dB
300-1500										
	2480,0	0,20	0,121	0,0193	10,4	0,76800	1,260	1260	19,1	18,18
1500-100000	2462,0	0,20	0,122	0,0194	10,3	0,76800	1,260	1260	97,3	11,12
	1755	0,20	0,171	0,0272	7,35	0,76800	1,260	1260	602,6	3,20

1.1307 (b)(3)(i)(B) exemption limit

0.3 GHz ≤ f ≤ 1.5 GHz
0.5 cm ≤ d ≤ 20 cm

f	ERP_{20cm}		d	Pth	Threshold EIRP	EIRP	Margin
GHz	mW	x	cm	mW	mW	mW	dB
1,5	3060	1,796	20	3060	5018		

0.3 GHz ≤ f ≤ 1.5 GHz
20 cm < d ≤ 40 cm

f	ERP_{20cm}	$Pth = ERP_{20cm}$
GHz	mW	mW

1.5 GHz < f ≤ 6.0 GHz
0.5 cm ≤ d ≤ 20 cm

f	ERP_{20cm}		d	Pth	
GHz	mW	x	d	mW	
6	3060	2,097	20	3060	5018

1.5 GHz < f ≤ 6.0 GHz
20 cm < d ≤ 40 cm

f	ERP_{20cm}	$Pth = ERP_{20cm}$			
GHz	mW	mW			
1755	3060	3060	5018	602,6	9,21
2480,0	3060	3060	5018	19,1	24,2
2462,0	3060	3060	5018	97,3	17,13