

MANUFACTURER: Favero Electronics S.r.l.

TEST ENGINEER: Oscar Frau

PRODUCT: F-PM2

Title: Project Handler

FCC ID: 2ATKD-FPM2

Signature:



MPE limits (§1.1310)

Mode	Frequency MHz	Duty Cycle %	Power ^{6,7} dBm	Antenna		EIRP ¹ dBm	EIRP mW	Distance D cm	PD ² mW/cm ²	PD Limit ³ mW/cm ²	PD/PD Limit	PD/PD Limit dB	2.1091 EIRP	2.1091 EIRP
				Gain ⁸ dBi	EIRP ¹ dBm								Limit mW	Margin dB
BLE	2480	100	6,3	-5,5	0,8	1,2	20	0,00024	1,0	0,00024		36,2	5018	36,21
ANT+	2457	100	5,65	-7,38	-1,73	0,7	20	0,000	1,0	0,00013		38,7	5018	38,74

FCC Co-Location = not applicable (see Operational description)

MPE limits for Innovation, Science and Economic Development Canada, RSS-102 Issue 5

Mode	Frequency MHz	Duty Cycle %	Power ^{6,7} dBm	Antenna		EIRP ¹ dBm	EIRP W	Distance D m	PD ² W/m ²	PD Limit ⁴ W/m ²	Margin dB	RSS 102 §2.5.2	RSS 102	PD/PD
				Gain ⁸ dBi	EIRP ¹ dBm							Lim. ⁵ W	§2.5.2 Marg. dB	Limit
BLE	2480	100	6,3	-5,5	0,8	0,001	0,2	0,00239	5,47	33,6		2,7	33,6	0,00044
ANT+	2457	100	5,65	-7,38	-1,7	0,001	0,2	0,00134	5,43	36,1		2,7	36,1	0,00025

FCC Co-Location = not applicable (see Operational description)

¹EIRP = (Power dBm + Antenna Gain dBi) + 10 x Log (Duty Cycle % / 100)

²PD = EIRP / (4πr²)

³CFR 47 Part 1, §1.1310(e), table 1

⁴RSS 102 §4, table 4

⁵RSS 102 §2.5.2

⁶Test Report n. 474474-3TRFWL, p. 28

⁷Test Report n. 474474-4TRFWL, p. 23 (93.5 dBuV/m = -1.73 dBm eirp)

⁸See "F2116 Custom antenna datasheet-v4-20230413_150531.pdf" and measured values in Test Report n. 474474-3TRFWL, p. 28

2.1091 EIRP Limit

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

RF Source	Frequency	F	R	ERP _{20cm}	x	Pth	Pth _{EIRP}	EIRP	Margin
	MHz	MHz	m	mW		mW	mW	mW	dB
	1500-6000	2480	0,20	3060	1,905	3060	5018	1,2	36,21
		2457	0,20	3060	1,903	3060	5018	0,7	38,74

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
	1500-100000	2480	0,20	0,121	0,0193	10,4	0,76800	1,260	1260	1,2	30,2
		2457	0,20	0,122	0,0194	10,3	0,76800	1,260	1260	0,7	32,7