

Client:	XPLOER	PR Number:	PR185702
Model:	DELLFMFHP	T-Log Number:	TL185702-RA-HF2-
Contact:	Huong Monnier	Project Manager:	Christine Krebill
Standard:	FCC Part 15, RSS-210, RSS-247	Project Engineer:	David Bare
		Class:	-

SAR Exclusion / Total Exposure Ratio

Specific Details

Objective: Evaluate the RF Exposure requirements per FCC 1.1310, 2.1091, 2.1093 and RSS-102.

Date of Test: 3/18/2025

Test Engineer: David Bare

General Test Configuration

SAR exclusion calculation formula is from FCC KDB 447498 D01 section 4.3:

$$\left[\frac{\text{(max. power of channel, including tune-up tolerance, mW)}}{\text{(min. test separation distance, mm)}} \right] \cdot [\sqrt{f_{\text{(GHz)}}}]$$

Where: $f_{\text{(GHz)}}$ is the RF transmit channel frequency

Summary of Results

Device complies with SAR exclusion at 5mm separation:	Yes
---	-----

Deviations From The Standard

No deviations were made from the requirements of the standard.

FCC SAR Exclusion Calculation (KDB 447498 D01 v6)

Freq. MHz	EUT @ Power		Cable Loss Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP mW	Separation Distance (mm)	SAR Exclusion Calc.	SAR Exclusion Limit
2404	-2.5	0.6	0	-2.9	-2.5	0.29	5.0	0.17	3.0
2404	-2.8	0.5	0	-1.1	-2.8	0.41	5.0	0.16	3.0
2404	-3.4	0.5	0	0.5	-3.4	0.51	5.0	0.14	3.0

@ Power adjusted for stated 34% maximum duty cycle in use

Combined exposure from both radios (highest contribution from each radio) as a percentage of the corresponding limit

2.4 GHz	5.8%	% of SAR exclusion limit
120 kHz	93.3%	% of RF exposure limit (see separate report)
Total	99.1%	TER is < 100%