

Exhibit: SAR Test Exclusion
Device: BlueFIRE Inflation Device
FCC ID: 2AMVF-IN10

November 2, 2017

This exhibit addresses the SAR exclusion for the above-referenced device.

Table 1: Device Summary

Item	See above
Manufacturer:	Merit Medical Systems, Inc.
FCC ID:	2AMVF-IN10
ISED ID:	NA
Model:	BlueFIRE Inflation Device
Serial Number of Unit Tested	None
FCC Rule Parts:	§15.247
Frequency Range:	2402-2480 MHz
Maximum Output Power:	0.62mW (-2.1dBm)
Production Tolerance:	+/-1 dB
Modulation:	PSK
Occupied Bandwidth:	1.7MHz
Keying:	Automatic
Type of Information:	Data

RF output power + Production Tolerance: -1.1 dBm = 0.78 mW

At 5 mm distance at 2450MHz, the maximum power is 10 mW. See Appendix A from KDB 447498 Appendix A (following).

The device is excluded from SAR evaluation.

Appendix A

SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table. The equation and threshold in 4.3.1 must be applied to determine SAR test exclusion.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	<i>SAR Test Exclusion Threshold (mW)</i>
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

would be appropriate, using the EUT's max target output + production tolerance.