EMC Test Data

Client:	ConserVention	PR Number:	PR118617
Model:	SMAT	T-Log Number:	TL118617-RA
		Project Manager:	Christine Krebill
Contact:	Thomas Shaw	Project Engineer:	David Bare
Standard:	FCC Part 15	Class:	N/A

SAR Exclusion

Specific Details

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

Date of Test: 7/1/2020
Test Engineer: David Bare

General Test Configuration

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

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

Where: $f_{(GHz)}$ 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

Freq. MHz	EUT Power dBm	EUT Power mW*	Cable Loss Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP mW	Separation Distance (mm)	SAR Exclusion Calc.	SAR Exclusion Limit
2402	-1.5	0.7	0	1.3	-1.5	0.95	5.0	0.22	3.0
2440	-2.5	0.6	0	1.6	-2.5	0.81	5.0	0.18	3.0
2480	-1.7	0.7	0	1.2	-1.7	0.89	5.0	0.21	3.0

ISED SAR Exclusion Calculation (Highest of output power or EIRP)

Freq. MHz	EUT Power dBm	EUT Power mW*	Cable Loss Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP mW	Separation Distance (mm)	Maximum Power or EIRP (mW)	SAR Exclusion Limit (mW)
2402	-1.5	0.7	0	1.3	-1.5	0.95	5.0	0.95	4.0
2440	-2.5	0.6	0	1.6	-2.5	0.81	5.0	0.81	4.0
2480	-1.7	0.7	0	1.2	-1.7	0.89	5.0	0.89	4.0