APPENDIX G: SAR SYSTEM VALIDATION

Per FCC KDB Publication 865664 D02v01r02, SAR system validation status should be documented to confirm measurement accuracy. The SAR systems (including SAR probes, system components and software versions) used for this device were validated against its performance specifications prior to the SAR measurements. Reference dipoles were used with the required tissue- equivalent media for system validation, according to the procedures outlined in FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013. Since SAR probe calibrations are frequency dependent, each probe calibration point was validated at a frequency within the valid frequency range of the probe calibration point, using the system that normally operates with the probe for routine SAR measurements and according to the required tissue-equivalent media.

A tabulated summary of the system validation status including the validation date(s), measurement frequencies, SAR probes and tissue dielectric parameters has been included.

Table G-1
SAR System Validation Summary

SAR System	Freq. (MHz)	Date	Probe SN	DAE	Probe Cal Point		Cond. (σ)	Perm. (εr)	CW VALIDATION			MOD. VALIDATION		
									SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
G	13	06/09/2022	7527	1272	13	Head	0.762	52.537	PASS	PASS	PASS	N/A	N/A	N/A
K1	750	08/23/2022	7491	1532	750	Head	0.886	41.040	PASS	PASS	PASS	N/A	N/A	N/A
S	835	08/08/2022	7488	1415	835	Head	0.886	41.278	PASS	PASS	PASS	GMSK	PASS	N/A
K1	835	08/23/2022	7491	1532	835	Head	0.916	40.801	PASS	PASS	PASS	GMSK	PASS	N/A
C	1750	08/10/2022	7406	1677	1750	Head	1.343	38.815	PASS	PASS	PASS	N/A	N/A	N/A
P	1900	08/17/2022	7409	1334	1900	Head	1.385	38.998	PASS	PASS	PASS	GMSK	PASS	N/A
P	2450	07/12/2022	7409	1334	2450	Head	1.757	39.544	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
L	2450	08/11/2022	7410	1583	2450	Head	1.862	39.716	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
G	2450	08/12/2022	7527	1272	2450	Head	1.876	38.918	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
G	2600	07/07/2022	7527	1272	2600	Head	1.943	37.386	PASS	PASS	PASS	TDD	PASS	N/A
L	2600	08/11/2022	7410	1583	2600	Head	1.987	39.461	PASS	PASS	PASS	TDD	PASS	N/A
G	5250	04/04/2022	7527	1272	5250	Head	4.840	35.964	PASS	PASS	PASS	OFDM	N/A	PASS
G	5600	04/04/2022	7527	1272	5600	Head	5.237	35.320	PASS	PASS	PASS	OFDM	N/A	PASS
G	5750	04/04/2022	7527	1272	5750	Head	5.427	35.065	PASS	PASS	PASS	OFDM	N/A	PASS
G	5800	04/04/2022	7527	1272	5800	Head	5.500	34.891	PASS	PASS	PASS	OFDM	N/A	PASS
K3	750	12/08/2022	7547	1322	750	Body	0.941	54.158	PASS	PASS	PASS	N/A	N/A	N/A
K2	835	03/29/2022	7640	1645	835	Body	1.004	54.030	PASS	PASS	PASS	GMSK	PASS	N/A
S	835	08/04/2022	7488	1415	835	Body	0.959	53.830	PASS	PASS	PASS	GMSK	PASS	N/A
K3	835	12/08/2022	7547	1322	835	Body	0.974	53.984	PASS	PASS	PASS	GMSK	PASS	N/A
C	1750	08/16/2022	7406	1677	1750	Body	1.460	53.454	PASS	PASS	PASS	N/A	N/A	N/A
J	1900	02/17/2022	7570	1558	1900	Body	1.578	53.899	PASS	PASS	PASS	GMSK	PASS	N/A
D	1900	11/29/2022	7551	1323	1900	Body	1.566	53.795	PASS	PASS	PASS	GMSK	PASS	N/A
L	2450	08/08/2022	7410	1583	2450	Body	2.042	53.429	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
L	2600	08/08/2022	7410	1583	2600	Body	2.190	53.159	PASS	PASS	PASS	TDD	PASS	N/A
K	5250	05/03/2022	7659	1407	5250	Body	5.389	47.450	PASS	PASS	PASS	OFDM	N/A	PASS
K	5600	05/03/2022	7659	1407	5600	Body	5.891	46.819	PASS	PASS	PASS	OFDM	N/A	PASS
K	5750	05/03/2022	7659	1407	5750	Body	6.105	46.554	PASS	PASS	PASS	OFDM	N/A	PASS
K	5800	05/03/2022	7659	1407	5800	Body	6.178	46.433	PASS	PASS	PASS	OFDM	N/A	PASS

NOTE: The probes have been calibrated for both CW and modulated signals. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664 D01v01r04 for scenarios when CW probe calibrations are used with other signal types. SAR systems were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5 dB), such as OFDM according to FCC KDB Publication 865664 D01v01r04.