

APPENDIX F: 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 F-1
SAR System Validation Summary – 1g

SAR System	Freq. (MHz)	Date	Probe SN	Probe Cal Point		Cond. (σ)	Perm. (ϵ_r)	CW VALIDATION			MOD. VALIDATION		
								SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
L	750	01/10/2022	7670	750	Head	0.904	43.321	PASS	PASS	PASS	N/A	N/A	N/A
K4	750	04/15/2022	7637	750	Head	0.873	43.945	PASS	PASS	PASS	N/A	N/A	N/A
D	835	02/07/2022	7571	835	Head	0.944	43.324	PASS	PASS	PASS	GMSK	PASS	N/A
K4	835	04/15/2022	7637	835	Head	0.923	43.560	PASS	PASS	PASS	GMSK	PASS	N/A
L	1750	01/10/2022	7670	1750	Head	1.380	41.113	PASS	PASS	PASS	N/A	N/A	N/A
K	1750	02/08/2022	3914	1750	Head	1.388	39.624	PASS	PASS	PASS	N/A	N/A	N/A
E	1900	03/21/2022	7538	1900	Head	1.456	39.181	PASS	PASS	PASS	GMSK	PASS	N/A
G	1900	04/20/2022	7527	1900	Head	1.458	39.624	PASS	PASS	PASS	GMSK	PASS	N/A
P	2300	01/17/2022	7410	2300	Head	1.752	38.929	PASS	PASS	PASS	N/A	N/A	N/A
P	2450	01/18/2022	7410	2450	Head	1.872	38.651	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
J	2450	02/24/2022	7570	2450	Head	1.836	40.313	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
P	2600	01/19/2022	7410	2600	Head	1.990	38.359	PASS	PASS	PASS	TDD	PASS	N/A
L	3500	10/13/2021	7670	3500	Head	2.786	38.172	PASS	PASS	PASS	TDD	PASS	N/A
L	3700	10/13/2021	7670	3700	Head	2.881	38.022	PASS	PASS	PASS	TDD	PASS	N/A
L	3900	10/13/2021	7670	3900	Head	2.975	37.851	PASS	PASS	PASS	TDD	PASS	N/A
G	5250	04/04/2022	7527	5250	Head	4.840	35.964	PASS	PASS	PASS	OFDM	N/A	PASS
G	5600	04/04/2022	7527	5600	Head	5.237	35.320	PASS	PASS	PASS	OFDM	N/A	PASS
G	5750	04/04/2022	7527	5750	Head	5.427	35.065	PASS	PASS	PASS	OFDM	N/A	PASS
G	5800	04/04/2022	7527	5800	Head	5.500	34.891	PASS	PASS	PASS	OFDM	N/A	PASS
K1	750	10/21/2021	7558	750	Body	0.968	54.027	PASS	PASS	PASS	N/A	N/A	N/A
I	750	01/10/2022	7661	750	Body	0.943	54.941	PASS	PASS	PASS	N/A	N/A	N/A
K4	750	04/12/2022	7637	750	Body	0.954	55.608	PASS	PASS	PASS	N/A	N/A	N/A
K1	835	10/21/2021	7558	835	Body	1.002	53.813	PASS	PASS	PASS	GMSK	PASS	N/A
K5	835	02/08/2022	7491	835	Body	0.977	55.526	PASS	PASS	PASS	GMSK	PASS	N/A
D	835	02/17/2022	7571	835	Body	0.948	56.699	PASS	PASS	PASS	GMSK	PASS	N/A
L	1750	01/05/2022	7670	1750	Body	1.477	53.736	PASS	PASS	PASS	N/A	N/A	N/A
K	1750	02/04/2022	3914	1750	Body	1.489	54.035	PASS	PASS	PASS	N/A	N/A	N/A
A	1900	01/10/2022	7406	1900	Body	1.545	53.143	PASS	PASS	PASS	GMSK	PASS	N/A
E	1900	03/22/2022	7538	1900	Body	1.583	50.883	PASS	PASS	PASS	GMSK	PASS	N/A
H	2300	01/12/2022	7409	2300	Body	1.897	51.354	PASS	PASS	PASS	N/A	N/A	N/A
O	2300	03/23/2022	7417	2300	Body	1.849	52.296	PASS	PASS	PASS	N/A	N/A	N/A
J	2450	02/16/2022	7570	2450	Body	2.008	54.126	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
O	2450	03/23/2022	7417	2450	Body	1.986	52.109	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
S	2600	01/25/2022	7552	2600	Body	2.147	51.997	PASS	PASS	PASS	TDD	PASS	N/A
O	2600	03/23/2022	7417	2600	Body	2.129	51.871	PASS	PASS	PASS	TDD	PASS	N/A
E	3500	03/14/2022	7538	3500	Body	3.200	49.165	PASS	PASS	PASS	TDD	PASS	N/A
E	3700	03/14/2022	7538	3700	Body	3.425	48.843	PASS	PASS	PASS	TDD	PASS	N/A
E	3900	03/14/2022	7538	3900	Body	3.666	48.431	PASS	PASS	PASS	TDD	PASS	N/A
K	5250	05/03/2022	7659	5250	Body	5.389	47.450	PASS	PASS	PASS	OFDM	N/A	PASS
K	5600	05/03/2022	7659	5600	Body	5.891	46.819	PASS	PASS	PASS	OFDM	N/A	PASS
K	5750	05/03/2022	7659	5750	Body	6.105	46.554	PASS	PASS	PASS	OFDM	N/A	PASS
K	5800	05/03/2022	7659	5800	Body	6.178	46.433	PASS	PASS	PASS	OFDM	N/A	PASS

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		Technical Manager
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**Table F-2
SAR System Validation Summary – 10g**

SAR System	Freq. (MHz)	Date	Probe SN	Probe Cal Point		Cond. (σ)	Perm. (ϵ_r)	CW VALIDATION			MOD. VALIDATION		
								SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
G	13	06/09/2022	7527	13	Head	0.762	52.537	PASS	PASS	PASS	N/A	N/A	N/A
K	1750	02/04/2022	3914	1750	Body	1.489	54.035	PASS	PASS	PASS	N/A	N/A	N/A
A	1900	01/10/2022	7406	1900	Body	1.545	53.143	PASS	PASS	PASS	GMSK	PASS	N/A
E	1900	03/22/2022	7538	1900	Body	1.583	50.883	PASS	PASS	PASS	GMSK	PASS	N/A
H	2300	01/12/2022	7409	2300	Body	1.897	51.354	PASS	PASS	PASS	N/A	N/A	N/A
O	2450	03/23/2022	7417	2450	Body	1.986	52.109	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
S	2600	01/25/2022	7552	2600	Body	2.147	51.997	PASS	PASS	PASS	TDD	PASS	N/A
O	2600	03/23/2022	7417	2600	Body	2.129	51.871	PASS	PASS	PASS	TDD	PASS	N/A
I	3500	10/13/2021	7661	3500	Body	3.198	49.804	PASS	PASS	PASS	TDD	PASS	N/A
E	3500	03/14/2022	7538	3500	Body	3.200	49.165	PASS	PASS	PASS	TDD	PASS	N/A
E	3700	03/14/2022	7538	3700	Body	3.425	48.843	PASS	PASS	PASS	TDD	PASS	N/A
E	3900	03/14/2022	7538	3900	Body	3.666	48.431	PASS	PASS	PASS	TDD	PASS	N/A
K	5250	05/03/2022	7659	5250	Body	5.389	47.450	PASS	PASS	PASS	OFDM	N/A	PASS
K	5600	05/03/2022	7659	5600	Body	5.891	46.819	PASS	PASS	PASS	OFDM	N/A	PASS
K	5750	05/03/2022	7659	5750	Body	6.105	46.554	PASS	PASS	PASS	OFDM	N/A	PASS
K	5800	05/03/2022	7659	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.

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