

# FCC SAR Test Report

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20025	Mid CH 20175	High CH 20325		Low CH 20025	Mid CH 20175	High CH 20325	
			1717.5 MHz	1732.5 MHz	1747.5 MHz		1717.5 MHz	1732.5 MHz	1747.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
4 / 15M	1	0	21.97	21.98	21.96	0	21.28	21.34	21.31	1
	1	37	22.29	22.34	22.33	0	21.62	21.65	21.70	1
	1	74	21.90	21.95	21.94	0	21.19	21.27	21.28	1
	36	0	21.21	21.26	21.32	1	20.30	20.28	20.37	2
	36	19	21.35	21.38	21.37	1	20.32	20.40	20.41	2
	36	39	21.20	21.25	21.32	1	20.28	20.29	20.35	2
	75	0	21.26	21.27	21.30	1	20.29	20.29	20.28	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
4 / 15M	1	0	13.11	13.01	13.11	0	12.95	12.90	12.99	1
	1	37	13.35	13.29	13.40	0	13.22	13.14	13.31	1
	1	74	12.99	12.93	13.04	0	12.83	12.80	12.93	1
	36	0	13.00	12.94	13.12	1	13.05	12.92	13.13	2
	36	19	13.08	13.00	13.11	1	13.01	12.98	13.11	2
	36	39	12.96	12.90	13.09	1	13.02	12.92	13.10	2
	75	0	13.02	12.92	13.07	1	13.02	12.91	13.02	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20050	Mid CH 20175	High CH 20300		Low CH 20050	Mid CH 20175	High CH 20300	
			1720.0 MHz	1732.5 MHz	1745.0 MHz		1720.0 MHz	1732.5 MHz	1745.0 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
4 / 20M	1	0	21.98	22.02	22.04	0	21.31	21.35	21.37	1
	1	50	22.33	22.37	<b>22.39</b>	0	21.66	21.70	21.72	1
	1	99	21.92	21.96	21.98	0	21.25	21.29	21.31	1
	50	0	21.27	21.31	21.33	1	20.32	20.36	20.38	2
	50	25	21.36	21.40	21.42	1	20.40	20.44	20.46	2
	50	50	21.28	21.32	21.34	1	20.31	20.35	20.37	2
	100	0	21.27	21.31	21.33	1	20.30	20.34	20.36	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
4 / 20M	1	0	13.12	13.05	13.19	0	12.98	12.91	13.05	1
	1	50	13.39	13.32	<b>13.46</b>	0	13.26	13.19	13.33	1
	1	99	13.01	12.94	13.08	0	12.89	12.82	12.96	1
	50	0	13.06	12.99	13.13	1	13.07	13.00	13.14	2
	50	25	13.09	13.02	13.16	1	13.09	13.02	13.16	2
	50	50	13.04	12.97	13.11	1	13.05	12.98	13.12	2
	100	0	13.03	12.96	13.10	1	13.03	12.96	13.10	2

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20407	Mid CH 20525	High CH 20643		Low CH 20407	Mid CH 20525	High CH 20643	
			824.7 MHz	836.5 MHz	848.3 MHz		824.7 MHz	836.5 MHz	848.3 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
5 / 1.4M	1	0	22.29	22.36	22.37	0	21.59	21.60	21.64	1
	1	2	22.43	22.43	22.49	0	21.71	21.68	21.76	1
	1	5	22.38	22.36	22.40	0	21.61	21.61	21.70	1
	3	0	22.43	22.44	22.52	0	22.47	22.49	22.51	1
	3	1	22.42	22.44	22.40	0	22.38	22.48	22.46	1
	3	3	22.26	22.26	22.30	0	22.31	22.33	22.39	1
	6	0	21.36	21.34	21.40	1	21.38	21.45	21.44	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
5 / 1.4M	1	0	16.97	17.04	17.08	0	16.83	16.84	16.91	0
	1	2	17.10	17.10	17.19	0	16.96	16.93	17.04	0
	1	5	17.05	17.03	17.10	0	16.88	16.88	17.00	0
	3	0	16.78	16.79	16.90	0	16.80	16.82	16.87	0
	3	1	16.75	16.77	16.76	0	16.72	16.82	16.83	0
	3	3	16.63	16.63	16.70	0	16.65	16.67	16.76	0
	6	0	16.74	16.72	16.81	0	16.71	16.78	16.80	0
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20415	Mid CH 20525	High CH 20635		Low CH 20415	Mid CH 20525	High CH 20635	
			825.5 MHz	836.5 MHz	847.5 MHz		825.5 MHz	836.5 MHz	847.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
5 / 3M	1	0	22.31	22.38	22.36	0	21.56	21.66	21.67	1
	1	7	22.39	22.44	22.49	0	21.68	21.71	21.74	1
	1	14	22.34	22.36	22.40	0	21.64	21.61	21.70	1
	8	0	21.42	21.47	21.52	1	21.43	21.50	21.51	2
	8	3	21.35	21.44	21.42	1	21.43	21.43	21.49	2
	8	7	21.23	21.33	21.34	1	21.33	21.31	21.35	2
	15	0	21.33	21.35	21.34	1	21.38	21.39	21.47	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
5 / 3M	1	0	16.99	17.06	17.07	0	16.80	16.90	16.94	0
	1	7	17.06	17.11	17.19	0	16.93	16.96	17.02	0
	1	14	17.01	17.03	17.10	0	16.91	16.88	17.00	0
	8	0	16.77	16.82	16.90	0	16.76	16.83	16.87	0
	8	3	16.68	16.77	16.78	0	16.77	16.77	16.86	0
	8	7	16.60	16.70	16.74	0	16.67	16.65	16.72	0
	15	0	16.71	16.73	16.75	0	16.71	16.72	16.83	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20425	Mid CH 20525	High CH 20625		Low CH 20425	Mid CH 20525	High CH 20625	
			826.5 MHz	836.5 MHz	846.5 MHz		826.5 MHz	836.5 MHz	846.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
5 / 5M	1	0	22.32	22.33	22.37	0	21.57	21.62	21.67	1
	1	12	22.44	22.41	22.49	0	21.65	21.74	21.73	1
	1	24	22.35	22.35	22.44	0	21.64	21.61	21.69	1
	12	0	21.45	21.47	21.49	1	21.43	21.48	21.48	2
	12	6	21.35	21.45	21.43	1	21.40	21.47	21.45	2
	12	13	21.27	21.29	21.35	1	21.28	21.33	21.38	2
	25	0	21.31	21.38	21.37	1	21.38	21.40	21.44	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
5 / 5M	1	0	17.00	17.01	17.08	0	16.81	16.86	16.94	0
	1	12	17.11	17.08	17.19	0	16.90	16.99	17.01	0
	1	24	17.02	17.02	17.14	0	16.91	16.88	16.99	0
	12	0	16.80	16.82	16.87	0	16.76	16.81	16.84	0
	12	6	16.68	16.78	16.79	0	16.74	16.81	16.82	0
	12	13	16.64	16.66	16.75	0	16.62	16.67	16.75	0
	25	0	16.69	16.76	16.78	0	16.71	16.73	16.80	0
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20450	Mid CH 20525	High CH 20600		Low CH 20450	Mid CH 20525	High CH 20600	
			829.0 MHz	836.5 MHz	844.0 MHz		829.0 MHz	836.5 MHz	844.0 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
5 / 10M	1	0	22.37	22.40	22.42	0	21.64	21.67	21.69	1
	1	24	22.46	22.49	<b>22.51</b>	0	21.73	21.76	21.78	1
	1	49	22.40	22.43	22.45	0	21.66	21.69	21.71	1
	25	0	21.49	21.52	21.54	1	21.51	21.54	21.56	2
	25	12	21.43	21.46	21.48	1	21.46	21.49	21.51	2
	25	25	21.31	21.34	21.36	1	21.35	21.38	21.40	2
	50	0	21.37	21.40	21.42	1	21.44	21.47	21.49	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
5 / 10M	1	0	17.05	17.08	17.13	0	16.88	16.91	16.96	0
	1	24	17.13	17.16	<b>17.21</b>	0	16.98	17.01	17.06	0
	1	49	17.07	17.10	17.15	0	16.93	16.96	17.01	0
	25	0	16.84	16.87	16.92	0	16.84	16.87	16.92	0
	25	12	16.76	16.79	16.84	0	16.80	16.83	16.88	0
	25	25	16.68	16.71	16.76	0	16.69	16.72	16.77	0
	50	0	16.75	16.78	16.83	0	16.77	16.80	16.85	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20775	Mid CH 21100	High CH 21425		Low CH 20775	Mid CH 21100	High CH 21425	
			2502.5 MHz	2535.0 MHz	2567.5 MHz		2502.5 MHz	2535.0 MHz	2567.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
7 / 5M	1	0	21.93	21.99	22.09	0	21.26	21.36	21.47	1
	1	12	22.44	22.46	22.60	0	21.67	21.81	21.86	1
	1	24	22.11	22.16	22.31	0	21.47	21.49	21.63	1
	12	0	21.28	21.35	21.43	1	20.28	20.38	20.44	2
	12	6	21.36	21.51	21.55	1	20.45	20.57	20.61	2
	12	13	21.46	21.53	21.65	1	20.48	20.58	20.69	2
	25	0	21.39	21.51	21.56	1	20.42	20.49	20.59	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
7 / 5M	1	0	10.19	10.21	10.39	0	10.02	10.08	10.27	0
	1	12	10.61	10.59	10.81	0	10.46	10.56	10.69	0
	1	24	10.34	10.35	10.58	0	10.20	10.18	10.40	0
	12	0	10.20	10.23	10.39	0	10.17	10.23	10.37	0
	12	6	10.23	10.34	10.46	0	10.26	10.34	10.46	0
	12	13	10.41	10.44	10.64	0	10.36	10.42	10.61	0
	25	0	10.31	10.39	10.52	0	10.29	10.32	10.50	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20800	Mid CH 21100	High CH 21400		Low CH 20800	Mid CH 21100	High CH 21400	
			2505.0 MHz	2535.0 MHz	2565.0 MHz		2505.0 MHz	2535.0 MHz	2565.0 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
7 / 10M	1	0	21.90	22.02	22.09	0	21.26	21.33	21.43	1
	1	24	22.44	22.46	22.61	0	21.72	21.77	21.89	1
	1	49	22.08	22.20	22.27	0	21.47	21.50	21.60	1
	25	0	21.29	21.34	21.46	1	20.30	20.36	20.50	2
	25	12	21.42	21.45	21.55	1	20.49	20.51	20.66	2
	25	25	21.44	21.50	21.64	1	20.47	20.59	20.66	2
	50	0	21.44	21.51	21.53	1	20.46	20.48	20.63	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
7 / 10M	1	0	10.16	10.24	10.39	0	10.02	10.05	10.23	0
	1	24	10.61	10.59	10.82	0	10.51	10.52	10.72	0
	1	49	10.31	10.39	10.54	0	10.20	10.19	10.37	0
	25	0	10.21	10.22	10.42	0	10.19	10.21	10.43	0
	25	12	10.29	10.28	10.46	0	10.30	10.28	10.51	0
	25	25	10.39	10.41	10.63	0	10.35	10.43	10.58	0
	50	0	10.36	10.39	10.49	0	10.33	10.31	10.54	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20825	Mid CH 21100	High CH 21375		Low CH 20825	Mid CH 21100	High CH 21375	
			2507.5 MHz	2535.0 MHz	2562.5 MHz		2507.5 MHz	2535.0 MHz	2562.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
7 / 15M	1	0	21.97	22.02	22.06	0	21.30	21.40	21.43	1
	1	37	22.42	22.51	22.56	0	21.71	21.78	21.89	1
	1	74	22.14	22.23	22.28	0	21.43	21.55	21.62	1
	36	0	21.26	21.35	21.47	1	20.34	20.36	20.51	2
	36	19	21.43	21.50	21.55	1	20.43	20.55	20.62	2
	36	39	21.42	21.51	21.64	1	20.52	20.57	20.69	2
	75	0	21.44	21.49	21.58	1	20.47	20.51	20.56	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
7 / 15M	1	0	10.23	10.24	10.36	0	10.06	10.12	10.23	0
	1	37	10.59	10.64	10.77	0	10.50	10.53	10.72	0
	1	74	10.37	10.42	10.55	0	10.16	10.24	10.39	0
	36	0	10.18	10.23	10.43	0	10.23	10.21	10.44	0
	36	19	10.30	10.33	10.46	0	10.24	10.32	10.47	0
	36	39	10.37	10.42	10.63	0	10.40	10.41	10.61	0
	75	0	10.36	10.37	10.54	0	10.34	10.34	10.47	0
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 20850	Mid CH 21100	High CH 21350		Low CH 20850	Mid CH 21100	High CH 21350	
			2510.0 MHz	2535.0 MHz	2560.0 MHz		2510.0 MHz	2535.0 MHz	2560.0 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
7 / 20M	1	0	21.98	22.06	22.14	0	21.33	21.41	21.49	1
	1	50	22.46	22.54	<b>22.62</b>	0	21.75	21.83	21.91	1
	1	99	22.16	22.24	22.32	0	21.49	21.57	21.65	1
	50	0	21.32	21.40	21.48	1	20.36	20.44	20.52	2
	50	25	21.44	21.52	21.60	1	20.51	20.59	20.67	2
	50	50	21.50	21.58	21.66	1	20.55	20.63	20.71	2
	100	0	21.45	21.53	21.61	1	20.48	20.56	20.64	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
7 / 20M	1	0	10.24	10.28	10.44	0	10.09	10.13	10.29	0
	1	50	10.63	10.67	<b>10.83</b>	0	10.54	10.58	10.74	0
	1	99	10.39	10.43	10.59	0	10.22	10.26	10.42	0
	50	0	10.24	10.28	10.44	0	10.25	10.29	10.45	0
	50	25	10.31	10.35	10.51	0	10.32	10.36	10.52	0
	50	50	10.45	10.49	10.65	0	10.43	10.47	10.63	0
	100	0	10.37	10.41	10.57	0	10.35	10.39	10.55	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26697	Mid CH 26865	High CH 27033		Low CH 26697	Mid CH 26865	High CH 27033	
			814.7 MHz	831.0 MHz	848.3 MHz		814.7 MHz	831.0 MHz	848.3 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
26 / 1.4M	1	0	22.17	22.18	22.23	0	21.44	21.39	21.47	1
	1	2	22.43	22.37	22.47	0	21.72	21.63	21.75	1
	1	5	22.19	22.11	22.19	0	21.48	21.42	21.55	1
	3	0	22.25	22.20	22.32	0	21.28	21.24	21.30	1
	3	1	22.34	22.30	22.30	0	21.26	21.30	21.32	1
	3	3	22.17	22.11	22.19	0	21.18	21.14	21.24	1
	6	0	21.23	21.15	21.25	1	20.22	20.23	20.26	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
26 / 1.4M	1	0	16.87	16.93	16.97	0	16.77	16.77	16.84	0
	1	2	17.15	17.14	17.23	0	17.02	16.98	17.09	0
	1	5	16.98	16.95	17.02	0	16.81	16.80	16.92	0
	3	0	16.66	16.66	16.77	0	16.71	16.72	16.77	0
	3	1	16.90	16.91	16.90	0	16.70	16.79	16.80	0
	3	3	16.56	16.55	16.62	0	16.58	16.59	16.68	0
	6	0	16.66	16.63	16.72	0	16.57	16.63	16.65	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26705	Mid CH 26865	High CH 27025		Low CH 26705	Mid CH 26865	High CH 27025	
			815.5 MHz	831.0 MHz	847.5 MHz		815.5 MHz	831.0 MHz	847.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
26 / 3M	1	0	22.19	22.20	22.22	0	21.41	21.45	21.50	1
	1	7	22.39	22.38	22.47	0	21.69	21.66	21.73	1
	1	14	22.15	22.11	22.19	0	21.51	21.42	21.55	1
	8	0	21.24	21.23	21.32	1	20.24	20.25	20.30	2
	8	3	21.27	21.30	21.32	1	20.31	20.25	20.35	2
	8	7	21.14	21.18	21.23	1	20.20	20.12	20.20	2
	15	0	21.20	21.16	21.19	1	20.22	20.17	20.29	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
26 / 3M	1	0	16.89	16.95	16.96	0	16.74	16.83	16.87	0
	1	7	17.11	17.15	17.23	0	16.99	17.01	17.07	0
	1	14	16.94	16.95	17.02	0	16.84	16.80	16.92	0
	8	0	16.65	16.69	16.77	0	16.67	16.73	16.77	0
	8	3	16.83	16.91	16.92	0	16.75	16.74	16.83	0
	8	7	16.53	16.62	16.66	0	16.60	16.57	16.64	0
	15	0	16.63	16.64	16.66	0	16.57	16.57	16.68	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26715	Mid CH 26865	High CH 27015		Low CH 26715	Mid CH 26865	High CH 27015	
			816.5 MHz	831.0 MHz	846.5 MHz		816.5 MHz	831.0 MHz	846.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
26 / 5M	1	0	22.20	22.15	22.23	0	21.42	21.41	21.50	1
	1	12	22.44	22.35	22.47	0	21.66	21.69	21.72	1
	1	24	22.16	22.10	22.23	0	21.51	21.42	21.54	1
	12	0	21.27	21.23	21.29	1	20.24	20.23	20.27	2
	12	6	21.27	21.31	21.33	1	20.28	20.29	20.31	2
	12	13	21.18	21.14	21.24	1	20.15	20.14	20.23	2
	25	0	21.18	21.19	21.22	1	20.22	20.18	20.26	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
26 / 5M	1	0	16.90	16.90	16.97	0	16.75	16.79	16.87	0
	1	12	17.16	17.12	17.23	0	16.96	17.04	17.06	0
	1	24	16.95	16.94	17.06	0	16.84	16.80	16.91	0
	12	0	16.68	16.69	16.74	0	16.67	16.71	16.74	0
	12	6	16.83	16.92	16.93	0	16.72	16.78	16.79	0
	12	13	16.57	16.58	16.67	0	16.55	16.59	16.67	0
	25	0	16.61	16.67	16.69	0	16.57	16.58	16.65	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26740	Mid CH 26865	High CH 26990		Low CH 26740	Mid CH 26865	High CH 26990	
			819.0 MHz	831.0 MHz	844.0 MHz		819.0 MHz	831.0 MHz	844.0 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
26 / 10M	1	0	22.17	22.18	22.23	0	21.42	21.38	21.46	1
	1	24	22.44	22.35	22.48	0	21.71	21.65	21.75	1
	1	49	22.13	22.14	22.19	0	21.51	21.43	21.51	1
	25	0	21.28	21.22	21.32	1	20.26	20.21	20.33	2
	25	12	21.33	21.25	21.33	1	20.32	20.23	20.36	2
	25	25	21.16	21.11	21.23	1	20.14	20.15	20.20	2
	50	0	21.23	21.19	21.19	1	20.26	20.17	20.30	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
26 / 10M	1	0	16.87	16.93	16.97	0	16.75	16.76	16.83	0
	1	24	17.16	17.12	17.24	0	17.01	17.00	17.09	0
	1	49	16.92	16.98	17.02	0	16.84	16.81	16.88	0
	25	0	16.69	16.68	16.77	0	16.69	16.69	16.80	0
	25	12	16.89	16.86	16.93	0	16.76	16.72	16.84	0
	25	25	16.55	16.55	16.66	0	16.54	16.60	16.64	0
	50	0	16.66	16.67	16.66	0	16.61	16.57	16.69	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26765	Mid CH 26865	High CH 26965		Low CH 26765	Mid CH 26865	High CH 26965	
			821.5 MHz	831.0 MHz	841.5 MHz		821.5 MHz	831.0 MHz	841.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
26 / 15M	1	0	22.25	22.22	22.28	0	21.49	21.46	21.52	1
	1	37	22.46	22.43	<b>22.49</b>	0	21.74	21.71	21.77	1
	1	74	22.21	22.18	22.24	0	21.53	21.50	21.56	1
	36	0	21.31	21.28	21.34	1	20.32	20.29	20.35	2
	36	19	21.35	21.32	21.38	1	20.34	20.31	20.37	2
	36	39	21.22	21.19	21.25	1	20.22	20.19	20.25	2
	75	0	21.24	21.21	21.27	1	20.28	20.25	20.31	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
26 / 15M	1	0	16.95	16.97	17.02	0	16.82	16.84	16.89	0
	1	37	17.18	17.20	<b>17.25</b>	0	17.04	17.06	17.11	0
	1	74	17.00	17.02	17.07	0	16.86	16.88	16.93	0
	36	0	16.72	16.74	16.79	0	16.75	16.77	16.82	0
	36	19	16.91	16.93	16.98	0	16.78	16.80	16.85	0
	36	39	16.61	16.63	16.68	0	16.62	16.64	16.69	0
	75	0	16.67	16.69	16.74	0	16.63	16.65	16.70	0



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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 37775	Mid CH 38000	High CH 38225		Low CH 37775	Mid CH 38000	High CH 38225	
			2572.5 MHz	2595 MHz	2617.5 MHz		2572.5 MHz	2595 MHz	2617.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
38 / 5M	1	0	22.13	22.09	22.08	0	21.17	21.17	21.17	1
	1	12	22.41	22.33	22.36	0	21.41	21.45	21.39	1
	1	24	22.10	22.05	22.09	0	21.19	21.11	21.14	1
	12	0	21.25	21.22	21.19	1	20.33	20.33	20.28	2
	12	6	21.33	21.38	21.31	1	20.47	20.49	20.42	2
	12	13	21.35	21.32	21.33	1	20.40	20.40	20.40	2
	25	0	21.31	21.33	21.27	1	20.42	20.39	20.38	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
38 / 5M	1	0	11.81	11.76	11.76	0	11.72	11.71	11.72	0
	1	12	12.10	12.01	12.05	0	11.97	12.00	11.95	0
	1	24	11.76	11.70	11.75	0	11.69	11.60	11.64	0
	12	0	12.06	12.02	12.00	0	11.93	11.92	11.88	0
	12	6	11.96	12.00	11.94	0	11.89	11.90	11.84	0
	12	13	11.97	11.93	11.95	0	11.83	11.82	11.83	0
	25	0	12.01	12.02	11.97	0	11.92	11.88	11.88	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 37800	Mid CH 38000	High CH 38200		Low CH 37800	Mid CH 38000	High CH 38200	
			2575 MHz	2595 MHz	2615 MHz		2575 MHz	2595 MHz	2615 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
38 / 10M	1	0	22.10	22.12	22.08	0	21.17	21.14	21.13	1
	1	24	22.41	22.33	22.37	0	21.46	21.41	21.42	1
	1	49	22.07	22.09	22.05	0	21.19	21.12	21.11	1
	25	0	21.26	21.21	21.22	1	20.35	20.31	20.34	2
	25	12	21.39	21.32	21.31	1	20.51	20.43	20.47	2
	25	25	21.33	21.29	21.32	1	20.39	20.41	20.37	2
	50	0	21.36	21.33	21.24	1	20.46	20.38	20.42	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
38 / 10M	1	0	11.78	11.79	11.76	0	11.72	11.68	11.68	0
	1	24	12.10	12.01	12.06	0	12.02	11.96	11.98	0
	1	49	11.73	11.74	11.71	0	11.69	11.61	11.61	0
	25	0	12.07	12.01	12.03	0	11.95	11.90	11.94	0
	25	12	12.02	11.94	11.94	0	11.93	11.84	11.89	0
	25	25	11.95	11.90	11.94	0	11.82	11.83	11.80	0
	50	0	12.06	12.02	11.94	0	11.96	11.87	11.92	0

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 37825	Mid CH 38000	High CH 38175		Low CH 37825	Mid CH 38000	High CH 38175	
			2577.5 MHz	2595 MHz	2612.5 MHz		2577.5 MHz	2595 MHz	2612.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
38 / 15M	1	0	22.17	22.12	22.05	0	21.21	21.21	21.13	1
	1	37	22.39	22.38	22.32	0	21.45	21.42	21.42	1
	1	74	22.13	22.12	22.06	0	21.15	21.17	21.13	1
	36	0	21.23	21.22	21.23	1	20.39	20.31	20.35	2
	36	19	21.40	21.37	21.31	1	20.45	20.47	20.43	2
	36	39	21.31	21.30	21.32	1	20.44	20.39	20.40	2
	75	0	21.36	21.31	21.29	1	20.47	20.41	20.35	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
38 / 15M	1	0	11.85	11.79	11.73	0	11.76	11.75	11.68	0
	1	37	12.08	12.06	12.01	0	12.01	11.97	11.98	0
	1	74	11.79	11.77	11.72	0	11.65	11.66	11.63	0
	36	0	12.04	12.02	12.04	0	11.99	11.90	11.95	0
	36	19	12.03	11.99	11.94	0	11.87	11.88	11.85	0
	36	39	11.93	11.91	11.94	0	11.87	11.81	11.83	0
	75	0	12.06	12.00	11.99	0	11.97	11.90	11.85	0

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 37850	Mid CH 38000	High CH 38150		Low CH 37850	Mid CH 38000	High CH 38150	
			2580 MHz	2595 MHz	2610 MHz		2580 MHz	2595 MHz	2610 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>										
38 / 20M	1	0	22.18	22.16	22.13	0	21.24	21.22	21.19	1
	1	50	<b>22.43</b>	22.41	22.38	0	21.49	21.47	21.44	1
	1	99	22.15	22.13	22.10	0	21.21	21.19	21.16	1
	50	0	21.29	21.27	21.24	1	20.41	20.39	20.36	2
	50	25	21.41	21.39	21.36	1	20.53	20.51	20.48	2
	50	50	21.39	21.37	21.34	1	20.47	20.45	20.42	2
	100	0	21.37	21.35	21.32	1	20.48	20.46	20.43	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>										
38 / 20M	1	0	11.86	11.83	11.81	0	11.79	11.76	11.74	0
	1	50	<b>12.12</b>	12.09	12.07	0	12.05	12.02	12.00	0
	1	99	11.81	11.78	11.76	0	11.71	11.68	11.66	0
	50	0	12.10	12.07	12.05	0	12.01	11.98	11.96	0
	50	25	12.04	12.01	11.99	0	11.95	11.92	11.90	0
	50	50	12.01	11.98	11.96	0	11.90	11.87	11.85	0
	100	0	12.07	12.04	12.02	0	11.98	11.95	11.93	0

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Band / BW	RB Size	RB Offset	QPSK					3GPP MPR (dB)	16QAM					3GPP MPR (dB)
			L-CH 39675	M-CH 40148	M-CH 40620	M-CH 41093	H-CH 41565		L-CH 39675	M-CH 40148	M-CH 40620	M-CH 41093	H-CH 41565	
			2498.5 MHz	2545.8 MHz	2593.0 MHz	2640.3 MHz	2687.5 MHz		2498.5 MHz	2545.8 MHz	2593.0 MHz	2640.3 MHz	2687.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>														
41 / 5M	1	0	21.96	22.11	22.19	22.15	22.09	0	20.98	21.17	21.26	21.16	21.14	1
	1	12	22.46	22.57	22.69	22.63	22.55	0	21.45	21.68	21.71	21.68	21.66	1
	1	24	21.98	22.12	22.25	22.14	22.11	0	21.06	21.17	21.29	21.19	21.17	1
	12	0	21.17	21.33	21.39	21.36	21.28	1	20.20	20.39	20.43	20.43	20.40	2
	12	6	21.18	21.42	21.44	21.39	21.32	1	20.28	20.49	20.51	20.47	20.43	2
	12	13	21.25	21.41	21.51	21.41	21.37	1	20.32	20.51	20.60	20.57	20.51	2
	25	0	21.26	21.47	21.50	21.43	21.44	1	20.31	20.47	20.55	20.51	20.50	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>														
41 / 5M	1	0	11.61	11.77	11.83	11.72	11.76	0	11.57	11.77	11.84	11.67	11.75	1
	1	12	12.01	12.13	12.23	12.10	12.12	0	11.91	12.15	12.16	12.06	12.14	1
	1	24	11.65	11.80	11.91	11.73	11.80	0	11.55	11.67	11.77	11.60	11.68	1
	12	0	11.96	12.13	12.17	12.07	12.09	1	11.88	12.08	12.10	12.03	12.10	2
	12	6	11.83	12.08	12.08	11.96	11.99	1	11.83	12.05	12.05	11.94	12.00	2
	12	13	11.85	12.02	12.10	11.93	11.99	1	11.77	11.97	12.04	11.94	11.98	2
	25	0	11.89	12.11	12.12	11.98	12.09	1	11.86	12.03	12.09	11.98	12.07	2
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>														
Band / BW	RB Size	RB Offset	QPSK					3GPP MPR (dB)	16QAM					3GPP MPR (dB)
			L-CH 39700	M-CH 40160	M-CH 40620	M-CH 41080	H-CH 41540		L-CH 39700	M-CH 40160	M-CH 40620	M-CH 41080	H-CH 41540	
			2501.0 MHz	2547.0 MHz	2593.0 MHz	2639.0 MHz	2685.0 MHz		2501.0 MHz	2547.0 MHz	2593.0 MHz	2639.0 MHz	2685.0 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>														
41 / 10M	1	0	21.93	22.14	22.19	22.13	22.07	0	20.98	21.14	21.22	21.22	21.14	1
	1	24	22.46	22.57	22.70	22.59	22.60	0	21.50	21.64	21.74	21.67	21.65	1
	1	49	21.95	22.16	22.21	22.20	22.09	0	21.06	21.18	21.26	21.25	21.14	1
	25	0	21.18	21.32	21.42	21.32	21.32	1	20.22	20.37	20.49	20.39	20.36	2
	25	12	21.24	21.36	21.44	21.39	21.38	1	20.32	20.43	20.56	20.50	20.42	2
	25	25	21.23	21.38	21.50	21.47	21.38	1	20.31	20.52	20.57	20.56	20.46	2
	50	0	21.31	21.47	21.47	21.46	21.44	1	20.35	20.46	20.59	20.50	20.43	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>														
41 / 10M	1	0	11.58	11.80	11.83	11.70	11.74	0	11.57	11.74	11.80	11.73	11.75	1
	1	24	12.01	12.13	12.24	12.06	12.17	0	11.96	12.11	12.19	12.05	12.13	1
	1	49	11.62	11.84	11.87	11.79	11.78	0	11.55	11.68	11.74	11.66	11.65	1
	25	0	11.97	12.12	12.20	12.03	12.13	1	11.90	12.06	12.16	11.99	12.06	2
	25	12	11.89	12.02	12.08	11.96	12.05	1	11.87	11.99	12.10	11.97	11.99	2
	25	25	11.83	11.99	12.09	11.99	12.00	1	11.76	11.98	12.01	11.93	11.93	2
	50	0	11.94	12.11	12.09	12.01	12.09	1	11.90	12.02	12.13	11.97	12.00	2

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Band / BW	RB Size	RB Offset	QPSK					3GPP MPR (dB)	16QAM					3GPP MPR (dB)
			L-CH 39725	M-CH 40173	M-CH 40620	M-CH 41068	H-CH 41515		L-CH 39725	M-CH 40173	M-CH 40620	M-CH 41068	H-CH 41515	
			2503.5 MHz	2548.3 MHz	2593.0 MHz	2637.8 MHz	2682.5 MHz		2503.5 MHz	2548.3 MHz	2593.0 MHz	2637.8 MHz	2682.5 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>														
41 / 15M	1	0	22.00	22.14	22.16	22.18	22.09	0	21.02	21.21	21.22	21.17	21.17	1
	1	37	22.44	22.62	22.65	22.59	22.60	0	21.49	21.65	21.74	21.64	21.60	1
	1	74	22.01	22.19	22.22	22.16	22.11	0	21.02	21.23	21.28	21.25	21.18	1
	36	0	21.15	21.33	21.43	21.36	21.34	1	20.26	20.37	20.50	20.43	20.41	2
	36	19	21.25	21.41	21.44	21.44	21.33	1	20.26	20.47	20.52	20.47	20.43	2
	36	39	21.21	21.39	21.50	21.43	21.41	1	20.36	20.50	20.60	20.56	20.51	2
	75	0	21.31	21.45	21.52	21.48	21.41	1	20.36	20.49	20.52	20.48	20.45	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>														
41 / 15M	1	0	11.65	11.80	11.80	11.75	11.76	0	11.61	11.81	11.80	11.68	11.78	1
	1	37	11.99	12.18	12.19	12.06	12.17	0	11.95	12.12	12.19	12.02	12.08	1
	1	74	11.68	11.87	11.88	11.75	11.80	0	11.51	11.73	11.76	11.66	11.69	1
	36	0	11.94	12.13	12.21	12.07	12.15	1	11.94	12.06	12.17	12.03	12.11	2
	36	19	11.90	12.07	12.08	12.01	12.00	1	11.81	12.03	12.06	11.94	12.00	2
	36	39	11.81	12.00	12.09	11.95	12.03	1	11.81	11.96	12.04	11.93	11.98	2
	75	0	11.94	12.09	12.14	12.03	12.06	1	11.91	12.05	12.06	11.95	12.02	2

Band / BW	RB Size	RB Offset	QPSK					3GPP MPR (dB)	16QAM					3GPP MPR (dB)
			L-CH 39750	M-CH 40185	M-CH 40620	M-CH 41055	H-CH 41490		L-CH 39750	M-CH 40185	M-CH 40620	M-CH 41055	H-CH 41490	
			2506.0 MHz	2549.5 MHz	2593.0 MHz	2636.5 MHz	2680.0 MHz		2506.0 MHz	2549.5 MHz	2593.0 MHz	2636.5 MHz	2680.0 MHz	
<b>EUT without Power Reduction (P-Sensor NOT Triggered)</b>														
41 / 20M	1	0	22.01	22.18	22.24	22.20	22.15	0	21.05	21.22	21.28	21.24	21.19	1
	1	50	22.48	22.65	22.71	22.67	22.62	0	21.53	21.70	21.76	21.72	21.67	1
	1	99	22.03	22.20	22.26	22.22	22.17	0	21.08	21.25	21.31	21.27	21.22	1
	50	0	21.21	21.38	21.44	21.40	21.35	1	20.28	20.45	20.51	20.47	20.42	2
	50	25	21.26	21.43	21.49	21.45	21.40	1	20.34	20.51	20.57	20.53	20.48	2
	50	50	21.29	21.46	21.52	21.48	21.43	1	20.39	20.56	20.62	20.58	20.53	2
	100	0	21.32	21.49	21.55	21.51	21.46	1	20.37	20.54	20.60	20.56	20.51	2
<b>EUT with Power Reduction (P-Sensor Triggered)</b>														
41 / 20M	1	0	11.66	11.84	11.88	11.77	11.82	0	11.64	11.82	11.86	11.75	11.80	1
	1	50	12.03	12.21	12.25	12.14	12.19	0	11.99	12.17	12.21	12.10	12.15	1
	1	99	11.70	11.88	11.92	11.81	11.86	0	11.57	11.75	11.79	11.68	11.73	1
	50	0	12.00	12.18	12.22	12.11	12.16	1	11.96	12.14	12.18	12.07	12.12	2
	50	25	11.91	12.09	12.13	12.02	12.07	1	11.89	12.07	12.11	12.00	12.05	2
	50	50	11.89	12.07	12.11	12.00	12.05	1	11.84	12.02	12.06	11.95	12.00	2
	100	0	11.95	12.13	12.17	12.06	12.11	1	11.92	12.10	12.14	12.03	12.08	2

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2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm) (without Power Reduction)	Average power (dBm) (with Power Reduction)	Duty Cycle %
	802.11b 1Mbps	1	2412	20.23	11.98	100
		6	2437	19.90	12.06	
		11	2462	20.47	12.82	
	802.11g 6Mbps	1	2412	16.58	11.10	100
		6	2437	19.26	11.15	
		11	2462	15.42	12.37	
	802.11n-HT20 MCS0	1	2412	16.48	11.05	100
		6	2437	16.90	11.09	
		11	2462	14.83	12.16	
802.11n-HT40 MCS0	3	2422	15.00	11.25	100	
	6	2437	15.61	11.37		
	9	2452	12.16	11.06		

5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm) (without Power Reduction)	Average power (dBm) (with Power Reduction)	Duty Cycle %
	802.11a 6Mbps	36	5180	18.71	10.73	100
		40	5200	18.91	11.21	
		44	5220	18.85	11.28	
		48	5240	18.73	11.43	
	802.11n-HT20 MCS0	36	5180	17.89	10.64	100
		40	5200	18.45	11.06	
		44	5220	18.66	11.12	
		48	5240	18.91	11.43	
	802.11n-HT40 MCS0	38	5190	15.72	10.73	100
		46	5230	17.18	10.95	
	802.11ac-VHT20 MCS0	36	5180	17.72	10.67	100
		40	5200	18.16	10.94	
		44	5220	18.55	11.07	
	802.11ac-VHT40 MCS0	48	5240	18.65	11.43	100
		38	5190	15.22	10.68	
	802.11ac-VHT80 MCS0	46	5230	17.06	10.89	100
		42	5210	16.28	10.93	

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	Mode	Channel	Frequency (MHz)	Average power (dBm) (without Power Reduction)	Average power (dBm) (with Power Reduction)	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	19.44	11.19	100
		56	5280	19.95	11.32	
		60	5300	19.76	11.39	
		64	5320	19.99	11.46	
	802.11n-HT20 MCS0	52	5260	18.99	11.08	100
		56	5280	19.55	11.30	
		60	5300	19.71	11.36	
		64	5320	19.89	11.42	
	802.11n-HT40 MCS0	54	5270	18.26	10.94	100
		62	5310	16.56	10.97	
	802.11ac-VHT20 MCS0	52	5260	18.81	10.86	100
		56	5280	19.51	11.25	
		60	5300	19.64	10.59	
		64	5320	19.77	11.24	
	802.11ac-VHT40 MCS0	54	5270	18.15	10.96	100
		62	5310	16.22	10.45	
802.11ac-VHT80 MCS0	58	5290	15.53	10.78	100	

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	Mode	Channel	Frequency (MHz)	Average power (dBm) (without Power Reduction)	Average power (dBm) (with Power Reduction)	Duty Cycle %
5.6GHz WLAN	802.11a 6Mbps	100	5500	19.63	11.62	100
		116	5580	19.08	11.23	
		124	5620	19.55	11.26	
		132	5660	19.57	11.02	
		140	5700	18.52	11.05	
		144	5720	18.50	11.61	
	802.11n-HT20 MCS0	100	5500	19.55	11.56	100
		116	5580	19.40	11.51	
		124	5620	19.49	11.13	
		132	5660	19.45	10.89	
		140	5700	18.86	10.92	
		144	5720	18.24	10.96	
	802.11n-HT40 MCS0	102	5510	18.42	11.15	100
		110	5550	18.40	10.52	
		126	5630	18.35	10.79	
		134	5670	17.52	10.47	
		142	5710	17.10	10.92	
	802.11ac-VHT20 MCS0	100	5500	18.79	11.04	100
		116	5580	19.08	10.93	
		124	5620	19.45	10.91	
		132	5660	19.41	10.84	
		140	5700	18.72	10.89	
		144	5720	18.05	10.95	
	802.11ac-VHT40 MCS0	102	5510	16.78	11.14	100
		110	5550	18.00	10.72	
		126	5630	18.36	10.81	
		134	5670	17.36	10.69	
		142	5710	16.86	10.84	
	802.11ac-VHT80 MCS0	106	5530	17.10	10.73	100
		122	5610	17.47	10.62	
138		5690	16.44	10.49		

# FCC SAR Test Report

5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm) (without Power Reduction)	Average power (dBm) (with Power Reduction)	Duty Cycle %
	802.11a 6Mbps	149	5745	18.53	9.59	100
		157	5785	18.31	9.61	
		165	5825	18.58	9.67	
	802.11n-HT20 MCS0	149	5745	18.53	9.46	100
		157	5785	18.30	9.52	
		165	5825	18.47	9.56	
	802.11n-HT40 MCS0	151	5755	17.58	9.31	100
		159	5795	17.33	9.23	
	802.11ac-VHT20 MCS0	149	5745	18.21	9.35	100
157		5785	17.94	9.32		
165		5825	18.15	9.38		
802.11ac-VHT40 MCS0	151	5755	17.44	9.34	100	
	159	5795	17.21	9.23		
802.11ac-VHT80 MCS0	155	5775	16.66	9.41	100	

## <Bluetooth>

Mode	Bluetooth GFSK		
Channel / Frequency (MHz)	0 (2402)	39 (2441)	78 (2480)
Average Power	8.72	9.21	9.70
Mode	Bluetooth $\pi/4$ -DQPSK		
Channel / Frequency (MHz)	0 (2402)	39 (2441)	78 (2480)
Average Power	4.89	5.88	6.78
Mode	Bluetooth 8-DPSK		
Channel / Frequency (MHz)	0 (2402)	39 (2441)	78 (2480)
Average Power	5.0	5.7	6.8
Mode	Bluetooth LE		
Channel / Frequency (MHz)	0 (2402)	19 (2440)	39 (2480)
Average Power	-2.37	-1.96	-2.42



### **4.6 SAR Testing Results**

#### **4.6.1 SAR Test Reduction Considerations**

##### **<KDB 447498 D01, General RF Exposure Guidance>**

Testing of other required channels within the operating mode of a frequency band is not required when the reported SAR for the mid-band or highest output power channel is:

- (1)  $\leq 0.8$  W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is  $\leq 100$  MHz
- (2)  $\leq 0.6$  W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
- (3)  $\leq 0.4$  W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is  $\geq 200$  MHz

##### **<KDB 941225 D01, 3G SAR Measurement Procedures>**

The mode tested for SAR is referred to as the primary mode. The equivalent modes considered for SAR test reduction are denoted as secondary modes. Both primary and secondary modes must be in the same frequency band. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq 1/4$  dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for the secondary mode.

##### **<KDB 941225 D05, SAR Evaluation Considerations for LTE Devices>**

- (1) QPSK with 1 RB and 50% RB allocation

Start with the largest channel bandwidth and measure SAR, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is  $\leq 0.8$  W/kg, testing of the remaining RB offset configurations and required test channels is not required; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is  $> 1.45$  W/kg, SAR is required for all three RB offset configurations for that required test channel.

- (2) QPSK with 100% RB allocation

SAR is not required when the highest maximum output power for 100% RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are  $\leq 0.8$  W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is  $> 1.45$  W/kg, the remaining required test channels must also be tested.

- (3) Higher order modulations

SAR is required only when the highest maximum output power for the configuration in the higher order modulation is  $> 1/2$  dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is  $> 1.45$  W/kg.

- (4) Other channel bandwidth

SAR is required when the highest maximum output power of the smaller channel bandwidth is  $> 1/2$  dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is  $> 1.45$  W/kg.

### <KDB 248227 D01, SAR Guidance for Wi-Fi Transmitters>

- (1) For handsets operating next to ear, hotspot mode or mini-tablet configurations, the initial test position procedures were applied. The test position with the highest extrapolated peak SAR will be used as the initial test position. When the reported SAR of initial test position is  $\leq 0.4$  W/kg, SAR testing for remaining test positions is not required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is  $\leq 0.8$  W/kg or all test positions are measured.
- (2) For WLAN 2.4 GHz, the highest measured maximum output power channel for DSSS was selected for SAR measurement. When the reported SAR is  $\leq 0.8$  W/kg, no further SAR testing is required. Otherwise, SAR is evaluated at the next highest measured output power channel. When any reported SAR is  $> 1.2$  W/kg, SAR is required for the third channel. For OFDM modes (802.11g/n), SAR is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and it is  $\leq 1.2$  W/kg.
- (3) For WLAN 5 GHz, the initial test configuration was selected according to the transmission mode with the highest maximum output power. When the reported SAR of initial test configuration is  $> 0.8$  W/kg, SAR is required for the subsequent highest measured output power channel until the reported SAR result is  $\leq 1.2$  W/kg or all required channels are measured. For other transmission modes, SAR is not required when the highest reported SAR for initial test configuration is adjusted by the ratio of subsequent test configuration to initial test configuration specified maximum output power and it is  $\leq 1.2$  W/kg.
- (4) For WLAN MIMO mode, the power-based standalone SAR test exclusion or the sum of SAR provision in KDB 447498 to determine simultaneous transmission SAR test exclusion should be applied. Otherwise, SAR for MIMO mode will be measured with all applicable antennas transmitting simultaneously at the specified maximum output power of MIMO operation.

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## 4.6.2 SAR Results for Body Exposure Condition (Separation Distance is 0 cm Gap)

### <GSM / WCDMA>

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Power Reduction	Sample	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
1	GSM850	GPRS12	Rear Face	0	251	Sensor On	1	23.5	22.27	0.01	0.583	1.33	<b>0.77</b>
	GSM850	GPRS12	Left Side	0	251	Sensor On	1	23.5	22.27	0.07	0.143	1.33	0.19
	GSM850	GPRS12	Top Side	0	251	Sensor On	1	23.5	22.27	0.12	0.462	1.33	0.61
	GSM850	GPRS12	Rear Face	1.5	251	Sensor Off	1	31.0	29.91	0.09	0.520	1.29	0.67
	GSM850	GPRS12	Left Side	0.8	251	Sensor Off	1	31.0	29.91	-0.05	0.356	1.29	0.46
	GSM850	GPRS12	Top Side	2.5	251	Sensor Off	1	31.0	29.91	0.01	0.240	1.29	0.31
	GSM850	GPRS12	Rear Face	0	251	Sensor On	2	23.5	22.27	0.07	0.426	1.33	0.57
	GSM850	GPRS12	Rear Face	0	251	Sensor On	3	23.5	22.27	0.12	0.464	1.33	0.62
	GSM850	GPRS12	Rear Face	0	251	Sensor On	4	23.5	22.27	0.07	0.461	1.33	0.61
2	GSM1900	GPRS12	Rear Face	0	810	Sensor On	1	21.5	20.75	0.09	0.788	1.19	0.94
	GSM1900	GPRS12	Left Side	0	810	Sensor On	1	21.5	20.75	0.05	0.366	1.19	0.43
	GSM1900	GPRS12	Top Side	0	810	Sensor On	1	21.5	20.75	0.01	0.811	1.19	0.96
	GSM1900	GPRS12	Rear Face	1.5	810	Sensor Off	1	28.0	27.04	-0.01	0.345	1.25	0.43
	GSM1900	GPRS12	Left Side	0.8	810	Sensor Off	1	28.0	27.04	0.04	0.255	1.25	0.32
	GSM1900	GPRS12	Top Side	2.5	810	Sensor Off	1	28.0	27.04	-0.06	0.167	1.25	0.21
	GSM1900	GPRS12	Rear Face	0	512	Sensor On	1	21.5	20.72	0.05	0.910	1.20	1.09
	GSM1900	GPRS12	Rear Face	0	661	Sensor On	1	21.5	20.70	0.09	0.916	1.20	<b>1.10</b>
	GSM1900	GPRS12	Top Side	0	512	Sensor On	1	21.5	20.72	0.01	0.806	1.20	0.96
3	GSM1900	GPRS12	Top Side	0	661	Sensor On	1	21.5	20.70	0.09	0.785	1.20	0.94
	GSM1900	GPRS12	Rear Face	0	661	Sensor On	2	21.5	20.70	0.02	0.914	1.20	1.10
	GSM1900	GPRS12	Rear Face	0	661	Sensor On	3	21.5	20.70	0.14	0.903	1.20	1.09
	GSM1900	GPRS12	Rear Face	0	661	Sensor On	4	21.5	20.70	0.08	0.908	1.20	1.09
	WCDMA II	RMC12.2K	Rear Face	0	9262	Sensor On	1	15.0	13.95	0	0.859	1.27	<b>1.09</b>
	WCDMA II	RMC12.2K	Left Side	0	9262	Sensor On	1	15.0	13.95	0.01	0.339	1.27	0.43
	WCDMA II	RMC12.2K	Top Side	0	9262	Sensor On	1	15.0	13.95	0.05	0.692	1.27	0.88
	WCDMA II	RMC12.2K	Rear Face	1.5	9262	Sensor Off	1	24.5	22.82	-0.05	0.586	1.47	0.86
	WCDMA II	RMC12.2K	Left Side	0.8	9262	Sensor Off	1	24.5	22.82	0.08	0.520	1.47	0.77
WCDMA II	RMC12.2K	Top Side	2.5	9262	Sensor Off	1	24.5	22.82	0.05	0.314	1.47	0.46	
4	WCDMA II	RMC12.2K	Rear Face	0	9400	Sensor On	1	15.0	13.72	0.09	0.777	1.34	1.04
	WCDMA II	RMC12.2K	Rear Face	0	9538	Sensor On	1	15.0	13.68	0.04	0.711	1.36	0.96
	WCDMA II	RMC12.2K	Top Side	0	9400	Sensor On	1	15.0	13.72	0.09	0.694	1.34	0.93
	WCDMA II	RMC12.2K	Top Side	0	9538	Sensor On	1	15.0	13.68	0.09	0.700	1.36	0.95
	WCDMA II	RMC12.2K	Rear Face	1.5	9400	Sensor Off	1	24.5	22.75	-0.02	0.590	1.50	0.88
	WCDMA II	RMC12.2K	Rear Face	1.5	9538	Sensor Off	1	24.5	22.77	0.01	0.534	1.49	0.80
	WCDMA II	RMC12.2K	Rear Face	0	9262	Sensor On	2	15.0	13.95	0.09	0.842	1.27	1.07
	WCDMA II	RMC12.2K	Rear Face	0	9262	Sensor On	3	15.0	13.95	0.03	0.848	1.27	1.08
	WCDMA II	RMC12.2K	Rear Face	0	9262	Sensor On	4	15.0	13.95	0.02	0.830	1.27	1.06
	WCDMA IV	RMC12.2K	Rear Face	0	1513	Sensor On	1	14.0	12.19	0.09	0.632	1.52	<b>0.96</b>
	WCDMA IV	RMC12.2K	Left Side	0	1513	Sensor On	1	14.0	12.19	0.03	0.162	1.52	0.25
	WCDMA IV	RMC12.2K	Top Side	0	1513	Sensor On	1	14.0	12.19	0.19	0.358	1.52	0.54
	WCDMA IV	RMC12.2K	Rear Face	1.5	1513	Sensor Off	1	24.5	22.66	-0.01	0.626	1.53	0.96
	WCDMA IV	RMC12.2K	Left Side	0.8	1513	Sensor Off	1	24.5	22.66	0.08	0.559	1.53	0.85
	WCDMA IV	RMC12.2K	Top Side	2.5	1513	Sensor Off	1	24.5	22.66	0.01	0.211	1.53	0.32
WCDMA IV	RMC12.2K	Rear Face	0	1312	Sensor On	1	14.0	12.08	0.02	0.564	1.56	0.88	
WCDMA IV	RMC12.2K	Rear Face	0	1413	Sensor On	1	14.0	12.11	0.01	0.596	1.55	0.92	
WCDMA IV	RMC12.2K	Rear Face	1.5	1312	Sensor Off	1	24.5	22.52	-0.02	0.555	1.58	0.88	
WCDMA IV	RMC12.2K	Rear Face	1.5	1413	Sensor Off	1	24.5	22.54	-0.02	0.595	1.57	0.93	
WCDMA IV	RMC12.2K	Left Side	0.8	1312	Sensor Off	1	24.5	22.52	0.07	0.499	1.58	0.79	
WCDMA IV	RMC12.2K	Left Side	0.8	1413	Sensor Off	1	24.5	22.54	0.05	0.530	1.57	0.83	
WCDMA IV	RMC12.2K	Rear Face	0	1513	Sensor On	2	14.0	12.19	0.07	0.583	1.52	0.88	
WCDMA IV	RMC12.2K	Rear Face	0	1513	Sensor On	3	14.0	12.19	0.14	0.609	1.52	0.92	
WCDMA IV	RMC12.2K	Rear Face	0	1513	Sensor On	4	14.0	12.19	0.11	0.624	1.52	0.95	

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Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Power Reduction	Sample	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
	WCDMA V	RMC12.2K	Rear Face	0	4182	Sensor On	1	18.5	17.16	0.05	0.767	1.36	1.04
	WCDMA V	RMC12.2K	Left Side	0	4182	Sensor On	1	18.5	17.16	0.05	0.162	1.36	0.22
	WCDMA V	RMC12.2K	Top Side	0	4182	Sensor On	1	18.5	17.16	0.15	0.521	1.36	0.71
	WCDMA V	RMC12.2K	Rear Face	1.5	4182	Sensor Off	1	24.5	22.82	0.06	0.378	1.47	0.56
	WCDMA V	RMC12.2K	Left Side	0.8	4182	Sensor Off	1	24.5	22.82	0.09	0.220	1.47	0.32
	WCDMA V	RMC12.2K	Top Side	2.5	4182	Sensor Off	1	24.5	22.82	0	0.163	1.47	0.24
5	WCDMA V	RMC12.2K	Rear Face	0	4132	Sensor On	1	18.5	17.14	0.03	0.800	1.37	<b>1.09</b>
	WCDMA V	RMC12.2K	Rear Face	0	4233	Sensor On	1	18.5	17.11	0.01	0.740	1.38	1.02
	WCDMA V	RMC12.2K	Rear Face	0	4132	Sensor On	2	18.5	17.14	0.03	0.759	1.37	1.04
	WCDMA V	RMC12.2K	Rear Face	0	4132	Sensor On	3	18.5	17.14	0.06	0.761	1.37	1.04
	WCDMA V	RMC12.2K	Rear Face	0	4132	Sensor On	4	18.5	17.14	0.06	0.781	1.37	1.07

## <FDD-LTE>

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Power Reduction	Sample	RB	offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)
6	LTE 2	QPSK20M	Rear Face	0	18700	Sensor On	1	1	50	15.0	13.83	-0.09	0.831	1.31	<b>1.09</b>
	LTE 2	QPSK20M	Left Side	0	18700	Sensor On	1	1	50	15.0	13.83	0.06	0.276	1.31	0.36
	LTE 2	QPSK20M	Top Side	0	18700	Sensor On	1	1	50	15.0	13.83	0.05	0.703	1.31	0.92
	LTE 2	QPSK20M	Rear Face	1.5	18700	Sensor Off	1	1	50	24.0	22.57	-0.03	0.575	1.39	0.80
	LTE 2	QPSK20M	Left Side	0.8	18700	Sensor Off	1	1	50	24.0	22.57	0.07	0.436	1.39	0.61
	LTE 2	QPSK20M	Top Side	2.5	18700	Sensor Off	1	1	50	24.0	22.57	0.02	0.282	1.39	0.39
	LTE 2	QPSK20M	Rear Face	0	18900	Sensor On	1	1	50	15.0	13.77	0.04	0.773	1.33	1.03
	LTE 2	QPSK20M	Rear Face	0	19100	Sensor On	1	1	50	15.0	13.75	0	0.727	1.33	0.97
	LTE 2	QPSK20M	Top Side	0	18900	Sensor On	1	1	50	15.0	13.77	0.06	0.713	1.33	0.95
	LTE 2	QPSK20M	Top Side	0	19100	Sensor On	1	1	50	15.0	13.75	0.1	0.724	1.33	0.97
	LTE 2	QPSK20M	Rear Face	1.5	18900	Sensor Off	1	1	50	24.0	22.53	-0.04	0.550	1.40	0.77
	LTE 2	QPSK20M	Rear Face	1.5	19100	Sensor Off	1	1	50	24.0	22.50	-0.07	0.511	1.41	0.72
	LTE 2	QPSK20M	Rear Face	0	18700	Sensor On	1	50	25	15.0	13.75	0	0.821	1.33	1.09
	LTE 2	QPSK20M	Left Side	0	18700	Sensor On	1	50	25	15.0	13.75	0.06	0.275	1.33	0.37
	LTE 2	QPSK20M	Top Side	0	18700	Sensor On	1	50	25	15.0	13.75	0.09	0.706	1.33	0.94
	LTE 2	QPSK20M	Rear Face	1.5	18700	Sensor Off	1	50	25	23.0	21.51	0.08	0.469	1.41	0.66
	LTE 2	QPSK20M	Left Side	0.8	18700	Sensor Off	1	50	25	23.0	21.51	-0.1	0.351	1.41	0.49
	LTE 2	QPSK20M	Top Side	2.5	18700	Sensor Off	1	50	25	23.0	21.51	0.11	0.228	1.41	0.32
	LTE 2	QPSK20M	Rear Face	0	18900	Sensor On	1	50	25	15.0	13.69	0.09	0.771	1.35	1.04
	LTE 2	QPSK20M	Rear Face	0	19100	Sensor On	1	50	25	15.0	13.67	0	0.735	1.36	1.00
	LTE 2	QPSK20M	Top Side	0	18900	Sensor On	1	50	25	15.0	13.69	-0.01	0.717	1.35	0.97
	LTE 2	QPSK20M	Top Side	0	19100	Sensor On	1	50	25	15.0	13.67	0.09	0.723	1.36	0.98
	LTE 2	QPSK20M	Rear Face	0	18700	Sensor On	1	100	0	15.0	13.71	0.09	0.813	1.35	1.09
	LTE 2	QPSK20M	Top Side	0	18700	Sensor On	1	100	0	15.0	13.71	0.05	0.697	1.35	0.94
	LTE 2	QPSK20M	Rear Face	1.5	18700	Sensor Off	1	100	0	23.0	21.44	0	0.472	1.43	0.68
	LTE 2	QPSK20M	Rear Face	0	18700	Sensor On	2	1	50	15.0	13.83	0.08	0.812	1.31	1.06
	LTE 2	QPSK20M	Rear Face	0	18700	Sensor On	3	1	50	15.0	13.83	0.05	0.824	1.31	1.08
	LTE 2	QPSK20M	Rear Face	0	18700	Sensor On	4	1	50	15.0	13.83	0.12	0.820	1.31	1.07
	LTE 4	QPSK20M	Rear Face	0	20300	Sensor On	1	1	50	14.5	13.46	0.09	0.790	1.27	1.00
	LTE 4	QPSK20M	Left Side	0	20300	Sensor On	1	1	50	14.5	13.46	0.01	0.192	1.27	0.24
	LTE 4	QPSK20M	Top Side	0	20300	Sensor On	1	1	50	14.5	13.46	0.19	0.505	1.27	0.64
	LTE 4	QPSK20M	Rear Face	1.5	20300	Sensor Off	1	1	50	23.5	22.39	-0.03	0.568	1.29	0.73
	LTE 4	QPSK20M	Left Side	0.8	20300	Sensor Off	1	1	50	23.5	22.39	0.05	0.489	1.29	0.63
	LTE 4	QPSK20M	Top Side	2.5	20300	Sensor Off	1	1	50	23.5	22.39	0.19	0.184	1.29	0.24
	LTE 4	QPSK20M	Rear Face	0	20050	Sensor On	1	1	50	14.5	13.39	0.09	0.730	1.29	0.94
	LTE 4	QPSK20M	Rear Face	0	20175	Sensor On	1	1	50	14.5	13.32	0.09	0.760	1.31	1.00
7	LTE 4	QPSK20M	Rear Face	0	20300	Sensor On	1	50	25	14.5	13.16	0.04	0.788	1.36	<b>1.07</b>
	LTE 4	QPSK20M	Left Side	0	20300	Sensor On	1	50	25	14.5	13.16	0.03	0.191	1.36	0.26
	LTE 4	QPSK20M	Top Side	0	20300	Sensor On	1	50	25	14.5	13.16	0.14	0.503	1.36	0.68
	LTE 4	QPSK20M	Rear Face	1.5	20300	Sensor Off	1	50	25	22.5	21.42	-0.05	0.472	1.28	0.61
	LTE 4	QPSK20M	Left Side	0.8	20300	Sensor Off	1	50	25	22.5	21.42	-0.12	0.392	1.28	0.50
	LTE 4	QPSK20M	Top Side	2.5	20300	Sensor Off	1	50	25	22.5	21.42	-0.03	0.148	1.28	0.19
	LTE 4	QPSK20M	Rear Face	0	20050	Sensor On	1	50	25	14.5	13.09	0.01	0.734	1.38	1.02
	LTE 4	QPSK20M	Rear Face	0	20175	Sensor On	1	50	25	14.5	13.02	0.09	0.764	1.41	1.07

# FCC SAR Test Report

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Power Reduction	Sample	RB	offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)
	LTE 4	QPSK20M	Rear Face	0	20300	Sensor On	1	100	0	14.5	13.10	0.01	0.760	1.38	1.05
	LTE 4	QPSK20M	Rear Face	0	20300	Sensor On	2	50	25	14.5	13.16	0.01	0.721	1.36	0.98
	LTE 4	QPSK20M	Rear Face	0	20300	Sensor On	3	50	25	14.5	13.16	0.17	0.751	1.36	1.02
	LTE 4	QPSK20M	Rear Face	0	20300	Sensor On	4	50	25	14.5	13.16	0.03	0.779	1.36	1.06
	LTE 7	QPSK20M	Rear Face	0	21350	Sensor On	1	1	50	11.5	10.83	0.09	0.548	1.17	0.64
	LTE 7	QPSK20M	Left Side	0	21350	Sensor On	1	1	50	11.5	10.83	0.09	0.167	1.17	0.19
	LTE 7	QPSK20M	Top Side	0	21350	Sensor On	1	1	50	11.5	10.83	0.05	0.701	1.17	0.82
	LTE 7	QPSK20M	Rear Face	1.5	21350	Sensor Off	1	1	50	23.5	22.62	-0.03	0.729	1.22	0.89
	LTE 7	QPSK20M	Left Side	0.8	21350	Sensor Off	1	1	50	23.5	22.62	0.09	0.581	1.22	0.71
	LTE 7	QPSK20M	Top Side	2.5	21350	Sensor Off	1	1	50	23.5	22.62	-0.13	0.708	1.22	0.87
	LTE 7	QPSK20M	Top Side	0	20850	Sensor On	1	1	50	11.5	10.63	0.05	0.717	1.22	0.88
	LTE 7	QPSK20M	Top Side	0	21100	Sensor On	1	1	50	11.5	10.67	0.01	0.705	1.21	0.85
	LTE 7	QPSK20M	Rear Face	1.5	20850	Sensor Off	1	1	50	23.5	22.46	-0.04	0.823	1.27	1.05
	LTE 7	QPSK20M	Rear Face	1.5	21100	Sensor Off	1	1	50	23.5	22.54	0.03	0.811	1.25	1.01
8	LTE 7	QPSK20M	Top Side	2.5	20850	Sensor Off	1	1	50	23.5	22.46	-0.01	0.859	1.27	1.09
	LTE 7	QPSK20M	Top Side	2.5	21100	Sensor Off	1	1	50	23.5	22.54	0.13	0.798	1.25	1.00
	LTE 7	QPSK20M	Rear Face	0	21350	Sensor On	1	50	50	11.5	10.65	0.05	0.365	1.22	0.44
	LTE 7	QPSK20M	Left Side	0	21350	Sensor On	1	50	50	11.5	10.65	0.08	0.162	1.22	0.20
	LTE 7	QPSK20M	Top Side	0	21350	Sensor On	1	50	50	11.5	10.65	0.06	0.718	1.22	0.87
	LTE 7	QPSK20M	Rear Face	1.5	21350	Sensor Off	1	50	50	22.5	21.66	0.07	0.579	1.21	0.70
	LTE 7	QPSK20M	Left Side	0.8	21350	Sensor Off	1	50	50	22.5	21.66	-0.06	0.447	1.21	0.54
	LTE 7	QPSK20M	Top Side	2.5	21350	Sensor Off	1	50	50	22.5	21.66	0.09	0.568	1.21	0.69
	LTE 7	QPSK20M	Top Side	0	20850	Sensor On	1	50	50	11.5	10.45	0.03	0.723	1.27	0.92
	LTE 7	QPSK20M	Top Side	0	21100	Sensor On	1	50	50	11.5	10.49	0.07	0.693	1.26	0.87
	LTE 7	QPSK20M	Top Side	0	21350	Sensor On	1	100	0	11.5	10.57	0.07	0.713	1.24	0.88
	LTE 7	QPSK20M	Rear Face	1.5	21350	Sensor Off	1	100	0	22.5	21.61	-0.12	0.591	1.23	0.73
	LTE 7	QPSK20M	Top Side	2.5	21350	Sensor Off	1	100	0	22.5	21.61	-0.01	0.581	1.23	0.71
	LTE 7	QPSK20M	Top Side	2.5	20850	Sensor Off	2	1	50	23.5	22.46	-0.04	0.773	1.27	0.98
	LTE 7	QPSK20M	Top Side	2.5	20850	Sensor Off	3	1	50	23.5	22.46	0.07	0.695	1.27	0.88
	LTE 7	QPSK20M	Top Side	2.5	20850	Sensor Off	4	1	50	23.5	22.46	0.01	0.780	1.27	0.99
	LTE 26	QPSK15M	Rear Face	0	26965	Sensor On	1	1	37	18.5	17.25	0	0.713	1.33	0.95
	LTE 26	QPSK15M	Left Side	0	26965	Sensor On	1	1	37	18.5	17.25	0.06	0.142	1.33	0.19
	LTE 26	QPSK15M	Top Side	0	26965	Sensor On	1	1	37	18.5	17.25	0.03	0.480	1.33	0.64
	LTE 26	QPSK15M	Rear Face	1.5	26965	Sensor Off	1	1	37	24.0	22.49	0.12	0.325	1.42	0.46
	LTE 26	QPSK15M	Left Side	0.8	26965	Sensor Off	1	1	37	24.0	22.49	-0.07	0.198	1.42	0.28
	LTE 26	QPSK15M	Top Side	2.5	26965	Sensor Off	1	1	37	24.0	22.49	0	0.150	1.42	0.21
	LTE 26	QPSK15M	Rear Face	0	26765	Sensor On	1	1	37	18.5	17.18	0.04	0.774	1.36	1.05
	LTE 26	QPSK15M	Rear Face	0	26865	Sensor On	1	1	37	18.5	17.20	0.06	0.741	1.35	1.00
	LTE 26	QPSK15M	Rear Face	0	26965	Sensor On	1	36	19	18.5	16.98	0.06	0.695	1.42	0.99
	LTE 26	QPSK15M	Left Side	0	26965	Sensor On	1	36	19	18.5	16.98	0.05	0.142	1.42	0.20
	LTE 26	QPSK15M	Top Side	0	26965	Sensor On	1	36	19	18.5	16.98	0.05	0.474	1.42	0.67
	LTE 26	QPSK15M	Rear Face	1.5	26965	Sensor Off	1	36	19	23.0	21.38	-0.1	0.266	1.45	0.39
	LTE 26	QPSK15M	Left Side	0.8	26965	Sensor Off	1	36	19	23.0	21.38	0.03	0.158	1.45	0.23
	LTE 26	QPSK15M	Top Side	2.5	26965	Sensor Off	1	36	19	23.0	21.38	0.01	0.119	1.45	0.17
9	LTE 26	QPSK15M	Rear Face	0	26765	Sensor On	1	36	19	18.5	16.91	0.04	0.756	1.44	1.09
	LTE 26	QPSK15M	Rear Face	0	26865	Sensor On	1	36	19	18.5	16.93	0.01	0.734	1.44	1.05
	LTE 26	QPSK15M	Rear Face	0	26965	Sensor On	1	75	0	18.5	16.74	0.03	0.667	1.50	1.00
	LTE 26	QPSK15M	Rear Face	0	26765	Sensor On	2	36	19	18.5	16.91	0.02	0.745	1.44	1.07
	LTE 26	QPSK15M	Rear Face	0	26765	Sensor On	3	36	19	18.5	16.91	0.07	0.749	1.44	1.08
	LTE 26	QPSK15M	Rear Face	0	26765	Sensor On	4	36	19	18.5	16.91	0.05	0.753	1.44	1.09



# FCC SAR Test Report

## <TDD-LTE>

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Power Reduction	Sample	RB	offset	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
	LTE 41	QPSK20M	Rear Face	0	40620	Sensor On	1	1	50	62.9	13.5	12.25	0.09	0.497	1.01	1.33	0.67
	LTE 41	QPSK20M	Left Side	0	40620	Sensor On	1	1	50	62.9	13.5	12.25	0.01	0.114	1.01	1.33	0.15
	LTE 41	QPSK20M	Top Side	0	40620	Sensor On	1	1	50	62.9	13.5	12.25	0.02	0.653	1.01	1.33	0.88
	LTE 41	QPSK20M	Rear Face	1.5	40620	Sensor Off	1	1	50	62.9	24.0	22.71	0.15	0.419	1.01	1.35	0.57
	LTE 41	QPSK20M	Left Side	0.8	40620	Sensor Off	1	1	50	62.9	24.0	22.71	0.13	0.268	1.01	1.35	0.36
	LTE 41	QPSK20M	Top Side	2.5	40620	Sensor Off	1	1	50	62.9	24.0	22.71	0.04	0.400	1.01	1.35	0.54
	LTE 41	QPSK20M	Rear Face	0	39750	Sensor On	1	1	50	62.9	13.5	12.03	0.06	0.531	1.01	1.40	0.75
	LTE 41	QPSK20M	Rear Face	0	40185	Sensor On	1	1	50	62.9	13.5	12.21	0	0.499	1.01	1.35	0.68
	LTE 41	QPSK20M	Rear Face	0	41055	Sensor On	1	1	50	62.9	13.5	12.14	0	0.514	1.01	1.37	0.71
	LTE 41	QPSK20M	Rear Face	0	41490	Sensor On	1	1	50	62.9	13.5	12.19	0.01	0.550	1.01	1.35	0.75
	LTE 41	QPSK20M	Top Side	0	39750	Sensor On	1	1	50	62.9	13.5	12.03	0.02	0.657	1.01	1.40	0.93
	LTE 41	QPSK20M	Top Side	0	40185	Sensor On	1	1	50	62.9	13.5	12.21	0.03	0.639	1.01	1.35	0.87
	LTE 41	QPSK20M	Top Side	0	41055	Sensor On	1	1	50	62.9	13.5	12.14	0.08	0.669	1.01	1.37	0.92
	LTE 41	QPSK20M	Top Side	0	41490	Sensor On	1	1	50	62.9	13.5	12.19	0.06	0.744	1.01	1.35	1.01
	LTE 41	QPSK20M	Rear Face	0	40620	Sensor On	1	50	0	62.9	13.5	12.22	0.04	0.461	1.01	1.34	0.62
	LTE 41	QPSK20M	Left Side	0	40620	Sensor On	1	50	0	62.9	13.5	12.22	0.06	0.127	1.01	1.34	0.17
	LTE 41	QPSK20M	Top Side	0	40620	Sensor On	1	50	0	62.9	13.5	12.22	0.02	0.639	1.01	1.34	0.86
	LTE 41	QPSK20M	Rear Face	1.5	40620	Sensor Off	1	50	0	62.9	23.0	21.44	0.14	0.331	1.01	1.43	0.48
	LTE 41	QPSK20M	Left Side	0.8	40620	Sensor Off	1	50	0	62.9	23.0	21.44	0.02	0.221	1.01	1.43	0.32
	LTE 41	QPSK20M	Top Side	2.5	40620	Sensor Off	1	50	0	62.9	23.0	21.44	0.01	0.318	1.01	1.43	0.46
	LTE 41	QPSK20M	Rear Face	0	39750	Sensor On	1	50	0	62.9	13.5	12.00	0.09	0.512	1.01	1.41	0.73
	LTE 41	QPSK20M	Rear Face	0	40185	Sensor On	1	50	0	62.9	13.5	12.18	0.06	0.489	1.01	1.36	0.67
	LTE 41	QPSK20M	Rear Face	0	41055	Sensor On	1	50	0	62.9	13.5	12.11	0.09	0.482	1.01	1.38	0.67
	LTE 41	QPSK20M	Rear Face	0	41490	Sensor On	1	50	0	62.9	13.5	12.16	0.02	0.544	1.01	1.36	0.75
	LTE 41	QPSK20M	Top Side	0	39750	Sensor On	1	50	0	62.9	13.5	12.00	0.07	0.630	1.01	1.41	0.90
	LTE 41	QPSK20M	Top Side	0	40185	Sensor On	1	50	0	62.9	13.5	12.18	0.03	0.632	1.01	1.36	0.86
	LTE 41	QPSK20M	Top Side	0	41055	Sensor On	1	50	0	62.9	13.5	12.11	0.02	0.660	1.01	1.38	0.91
10	LTE 41	QPSK20M	Top Side	0	41490	Sensor On	1	50	0	62.9	13.5	12.16	0.12	0.744	1.01	1.36	<b>1.02</b>
	LTE 41	QPSK20M	Rear Face	0	40620	Sensor On	1	100	0	62.9	13.5	12.17	0.02	0.475	1.01	1.36	0.65
	LTE 41	QPSK20M	Top Side	0	40620	Sensor On	1	100	0	62.9	13.5	12.17	0.04	0.643	1.01	1.36	0.88
	LTE 41	QPSK20M	Top Side	0	41490	Sensor On	2	50	0	62.9	13.5	12.16	0.02	0.736	1.01	1.36	1.01
	LTE 41	QPSK20M	Top Side	0	41490	Sensor On	3	50	0	62.9	13.5	12.16	0.04	0.741	1.01	1.36	1.02
	LTE 41	QPSK20M	Top Side	0	41490	Sensor On	4	50	0	62.9	13.5	12.16	0.18	0.717	1.01	1.36	0.98

# FCC SAR Test Report

## <WLAN / BT >

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Power Reduction	Sample	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
	WLAN2.4G	802.11b	Rear Face	0	11	Sensor On	1	100	13.0	12.82	0	0.798	1.00	1.04	0.83
	WLAN2.4G	802.11b	Right Side	0	11	Sensor On	1	100	13.0	12.82	0.07	0.324	1.00	1.04	0.34
	WLAN2.4G	802.11b	Top Side	0	11	Sensor On	1	100	13.0	12.82	0.11	0.265	1.00	1.04	0.28
	WLAN2.4G	802.11b	Rear Face	0.8	11	Sensor Off	1	100	21.0	20.47	0.08	0.909	1.00	1.13	1.03
	WLAN2.4G	802.11b	Right Side	0.3	11	Sensor Off	1	100	21.0	20.47	0.01	0.803	1.00	1.13	0.91
	WLAN2.4G	802.11b	Top Side	1.2	11	Sensor Off	1	100	21.0	20.47	-0.02	0.202	1.00	1.13	0.23
	WLAN2.4G	802.11b	Rear Face	1.5	11	Sensor Off	1	100	21.0	20.47	0.05	0.174	1.00	1.13	0.20
	WLAN2.4G	802.11b	Top Side	2.5	11	Sensor Off	1	100	21.0	20.47	-0.16	0.077	1.00	1.13	0.09
11	WLAN2.4G	802.11b	Rear Face	0	6	Sensor On	1	100	13.0	12.06	0.19	0.877	1.00	1.24	<b>1.09</b>
	WLAN2.4G	802.11b	Rear Face	0.8	1	Sensor On	1	100	21.0	20.23	0.02	0.850	1.00	1.19	1.01
	WLAN2.4G	802.11b	Right Side	0.3	1	Sensor Off	1	100	21.0	20.23	-0.18	0.631	1.00	1.19	0.75
	WLAN2.4G	802.11b	Rear Face	0	6	Sensor On	2	100	13.0	12.06	0.08	0.775	1.00	1.24	0.96
	WLAN2.4G	802.11b	Rear Face	0	6	Sensor On	3	100	13.0	12.06	0.06	0.869	1.00	1.24	1.08
	WLAN2.4G	802.11b	Rear Face	0	6	Sensor On	4	100	13.0	12.06	0.08	0.850	1.00	1.24	1.06
	WLAN5G	802.11a	Rear Face	0	64	Sensor On	1	100	11.5	11.46	0	0.367	1.00	1.01	0.37
	WLAN5G	802.11a	Right Side	0	64	Sensor On	1	100	11.5	11.46	0.07	0.079	1.00	1.01	0.08
	WLAN5G	802.11a	Top Side	0	64	Sensor On	1	100	11.5	11.46	0.04	1.030	1.00	1.01	1.04
	WLAN5G	802.11a	Rear Face	0.8	64	Sensor Off	1	100	20.0	19.99	0	0.665	1.00	1.00	0.67
	WLAN5G	802.11a	Right Side	0.3	64	Sensor Off	1	100	20.0	19.99	-0.02	0.336	1.00	1.00	0.34
	WLAN5G	802.11a	Top Side	1.2	64	Sensor Off	1	100	20.0	19.99	0.06	1.050	1.00	1.00	1.05
	WLAN5G	802.11a	Rear Face	1.5	64	Sensor Off	1	100	20.0	19.99	0.01	0.277	1.00	1.00	0.28
	WLAN5G	802.11a	Top Side	2.5	64	Sensor Off	1	100	20.0	19.99	0.09	0.411	1.00	1.00	0.41
	WLAN5G	802.11a	Top Side	0	60	Sensor On	1	100	11.5	11.39	-0.08	0.971	1.00	1.03	1.00
12	WLAN5G	802.11a	Top Side	1.2	60	Sensor Off	1	100	20.0	19.76	-0.01	1.060	1.00	1.06	<b>1.12</b>
	WLAN5G	802.11a	Top Side	1.2	60	Sensor Off	2	100	20.0	19.76	0.09	1.050	1.00	1.06	1.11
	WLAN5G	802.11a	Top Side	1.2	60	Sensor Off	3	100	20.0	19.76	0.04	0.970	1.00	1.06	1.03
	WLAN5G	802.11a	Top Side	1.2	60	Sensor Off	4	100	20.0	19.76	-0.07	0.928	1.00	1.06	0.98
	WLAN5G	802.11a	Rear Face	0	100	Sensor On	1	100	12.0	11.62	0.09	0.584	1.00	1.09	0.64
	WLAN5G	802.11a	Right Side	0	100	Sensor On	1	100	12.0	11.62	0.05	0.028	1.00	1.09	0.03
	WLAN5G	802.11a	Top Side	0	100	Sensor On	1	100	12.0	11.62	-0.09	0.739	1.00	1.09	0.81
	WLAN5G	802.11a	Rear Face	0.8	100	Sensor Off	1	100	20.0	19.63	0.09	0.693	1.00	1.09	0.75
	WLAN5G	802.11a	Right Side	0.3	100	Sensor Off	1	100	20.0	19.63	0.01	0.217	1.00	1.09	0.24
	WLAN5G	802.11a	Top Side	1.2	100	Sensor Off	1	100	20.0	19.63	-0.07	0.730	1.00	1.09	0.79
	WLAN5G	802.11a	Rear Face	1.5	100	Sensor Off	1	100	20.0	19.63	0.06	0.277	1.00	1.09	0.30
	WLAN5G	802.11a	Top Side	2.5	100	Sensor Off	1	100	20.0	19.63	0.13	0.393	1.00	1.09	0.43
13	WLAN5G	802.11a	Top Side	0	144	Sensor On	1	100	12.0	11.61	0.01	0.968	1.00	1.09	<b>1.06</b>
	WLAN5G	802.11a	Top Side	0	144	Sensor On	2	100	12.0	11.61	0	0.724	1.00	1.09	0.79
	WLAN5G	802.11a	Top Side	0	144	Sensor On	3	100	12.0	11.61	0.05	0.959	1.00	1.09	1.05
	WLAN5G	802.11a	Top Side	0	144	Sensor On	4	100	12.0	11.61	0.01	0.818	1.00	1.09	0.89
	WLAN5G	802.11a	Rear Face	0	165	Sensor On	1	100	10.0	9.67	0.09	0.606	1.00	1.08	0.65
	WLAN5G	802.11a	Right Side	0	165	Sensor On	1	100	10.0	9.67	0.03	0.095	1.00	1.08	0.10
	WLAN5G	802.11a	Top Side	0	165	Sensor On	1	100	10.0	9.67	0.01	0.858	1.00	1.08	0.93
	WLAN5G	802.11a	Rear Face	0.8	165	Sensor Off	1	100	20.0	18.58	0	0.677	1.00	1.39	0.94
	WLAN5G	802.11a	Right Side	0.3	165	Sensor Off	1	100	20.0	18.58	0.06	0.377	1.00	1.39	0.52
14	WLAN5G	802.11a	Top Side	1.2	165	Sensor Off	1	100	20.0	18.58	-0.05	0.787	1.00	1.39	<b>1.09</b>
	WLAN5G	802.11a	Rear Face	1.5	165	Sensor Off	1	100	20.0	18.58	0.09	0.399	1.00	1.39	0.55
	WLAN5G	802.11a	Top Side	2.5	165	Sensor Off	1	100	20.0	18.58	-0.01	0.504	1.00	1.39	0.70
	WLAN5G	802.11a	Top Side	0	157	Sensor On	1	100	10.0	9.61	0.01	0.940	1.00	1.09	1.03
	WLAN5G	802.11a	Rear Face	0.8	149	Sensor Off	1	100	20.0	18.53	0.09	0.680	1.00	1.40	0.95
	WLAN5G	802.11a	Top Side	1.2	149	Sensor Off	1	100	20.0	18.53	0.09	0.750	1.00	1.40	1.05
	WLAN5G	802.11a	Top Side	1.2	165	Sensor Off	2	100	20.0	18.58	0.08	0.491	1.00	1.39	0.68
	WLAN5G	802.11a	Top Side	1.2	165	Sensor Off	3	100	20.0	18.58	-0.09	0.778	1.00	1.39	1.08
	WLAN5G	802.11a	Top Side	1.2	165	Sensor Off	4	100	20.0	18.58	0	0.533	1.00	1.39	0.74

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Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Power Reduction	Sample	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Scaling Factor	Tune-up Scaling Factor	Scaled SAR-1g (W/kg)
15	BT	GFSK	Rear Face	0	78	Sensor Off	1	76.9	11.0	9.70	0.01	0.239	1.08	1.35	<b>0.35</b>
	BT	GFSK	Right Side	0	78	Sensor Off	1	76.9	11.0	9.70	0.08	0.112	1.08	1.35	0.16
	BT	GFSK	Top Side	0	78	Sensor Off	1	76.9	11.0	9.70	0.11	0.119	1.08	1.35	0.17
	BT	GFSK	Rear Face	1.5	78	Sensor Off	1	76.9	11.0	9.70	0.03	0.065	1.08	1.35	0.09
	BT	GFSK	Right Side	0.8	78	Sensor Off	1	76.9	11.0	9.70	0.02	0.069	1.08	1.35	0.10
	BT	GFSK	Top Side	2.5	78	Sensor Off	1	76.9	11.0	9.70	-0.05	0.014	1.08	1.35	0.02
	BT	GFSK	Rear Face	0	78	Sensor Off	2	76.9	11.0	9.70	0.06	0.229	1.08	1.35	0.33
	BT	GFSK	Rear Face	0	78	Sensor Off	3	76.9	11.0	9.70	0.01	0.221	1.08	1.35	0.32
	BT	GFSK	Rear Face	0	78	Sensor Off	4	76.9	11.0	9.70	-0.03	0.216	1.08	1.35	0.32



**4.6.3 SAR Measurement Variability**

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are  $\leq 1.45$  W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is  $\leq 1.10$ , the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR repeated measurement procedure:

1. When the highest measured SAR is  $< 0.80$  W/kg, repeated measurement is not required.
2. When the highest measured SAR is  $\geq 0.80$  W/kg, repeat that measurement once.
3. If the ratio of largest to smallest SAR for the original and first repeated measurements is  $> 1.20$ , or when the original or repeated measurement is  $\geq 1.45$  W/kg, perform a second repeated measurement.
4. If the ratio of largest to smallest SAR for the original, first and second repeated measurements is  $> 1.20$ , and the original, first or second repeated measurement is  $\geq 1.5$  W/kg, perform a third repeated measurement.

Band	Test Position	Ch.	Original Measured SAR-1g (W/kg)	1st Repeated SAR-1g (W/kg)	L/S Ratio	2nd Repeated SAR-1g (W/kg)	L/S Ratio	3rd Repeated SAR-1g (W/kg)	L/S Ratio
GSM1900	Rear Face	661	0.916	0.910	1.01	N/A	N/A	N/A	N/A
WCDMA V	Rear Face	4132	0.800	0.795	1.01	N/A	N/A	N/A	N/A
LTE 7	Top Side	20850	0.859	0.833	1.03	N/A	N/A	N/A	N/A
WLAN2.4G	Rear Face	6	0.877	0.859	1.02	N/A	N/A	N/A	N/A
WLAN5G	Top Side	60	1.060	1.050	1.01	N/A	N/A	N/A	N/A
WLAN5G	Top Side	144	0.968	0.949	1.02	N/A	N/A	N/A	N/A
WLAN5G	Top Side	157	0.940	0.935	1.01	N/A	N/A	N/A	N/A

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## 4.6.4 Simultaneous Multi-band Transmission Evaluation

### <SAR Summation Analysis>

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. When the sum of SAR<sub>1g</sub> of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR<sub>1g</sub> 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR<sub>1g</sub> is greater than the SAR limit (SAR<sub>1g</sub> 1.6 W/kg), SAR test exclusion is determined by the SPLSR.

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	3+4 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)
		WWAN 1g SAR (W/kg)	2.4GHz WLAN Ant 1 1g SAR (W/kg)	5GHz WLAN Ant 1 1g SAR (W/kg)	Bluetooth Ant 1 1g SAR (W/kg)					
GSM850	Rear Face at 15 mm	0.67	0.20	0.55	0.09	0.86	1.22	0.76	0.65	1.32
	Left Side at 8mm	0.46				0.46	0.46	0.46	0.00	0.46
	Right Side at 3mm		0.91	0.52	0.10	0.91	0.52	0.10	0.62	0.62
	Top Side at 25 mm	0.31	0.09	0.70	0.02	0.40	1.01	0.33	0.72	1.03
	Rear Face at 0mm	0.77	1.09	0.65	0.35	1.86	1.43	1.12	1.00	1.78
	Left Side at 0mm	0.19				0.19	0.19	0.19	0.00	0.19
	Right Side at 0mm		0.34	0.10	0.16	0.34	0.10	0.16	0.27	0.27
	Top Side at 0 mm	0.61	0.28	1.06	0.17	0.89	1.67	0.79	1.23	1.84
GSM1900	Rear Face at 15 mm	0.43	0.20	0.55	0.09	0.63	0.98	0.52	0.65	1.08
	Left Side at 8mm	0.32				0.32	0.32	0.32	0.00	0.32
	Right Side at 3mm		0.91	0.52	0.10	0.91	0.52	0.10	0.62	0.62
	Top Side at 25 mm	0.21	0.09	0.70	0.02	0.30	0.91	0.23	0.72	0.93
	Rear Face at 0mm	1.10	1.09	0.65	0.35	2.19	1.76	1.45	1.00	2.10
	Left Side at 0mm	0.43				0.43	0.43	0.43	0.00	0.43
	Right Side at 0mm		0.34	0.10	0.16	0.34	0.10	0.16	0.27	0.27
	Top Side at 0 mm	0.96	0.28	1.06	0.17	1.24	2.02	1.14	1.23	2.19
WCDMA II	Rear Face at 15 mm	0.88	0.20	0.55	0.09	1.08	1.44	0.98	0.65	1.53
	Left Side at 8mm	0.77				0.77	0.77	0.77	0.00	0.77
	Right Side at 3mm		0.91	0.52	0.10	0.91	0.52	0.10	0.62	0.62
	Top Side at 25 mm	0.46	0.09	0.70	0.02	0.55	1.16	0.48	0.72	1.18
	Rear Face at 0mm	1.09	1.09	0.65	0.35	2.18	1.75	1.44	1.00	2.10
	Left Side at 0mm	0.43				0.43	0.43	0.43	0.00	0.43
	Right Side at 0mm		0.34	0.10	0.16	0.34	0.10	0.16	0.27	0.27
	Top Side at 0 mm	0.95	0.28	1.06	0.17	1.22	2.01	1.12	1.23	2.18

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WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	3+4 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1					
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)					
WCDMA IV	Rear Face at 15 mm	0.96	0.20	0.55	0.09	1.15	1.51	1.05	0.65	1.60
	Left Side at 8mm	0.85				0.85	0.85	0.85	0.00	0.85
	Right Side at 3mm		0.91	0.52	0.10	0.91	0.52	0.10	0.62	0.62
	Top Side at 25 mm	0.32	0.09	0.70	0.02	0.41	1.02	0.34	0.72	1.04
	Rear Face at 0mm	0.96	1.09	0.65	0.35	2.05	1.61	1.31	1.00	1.96
	Left Side at 0mm	0.25				0.25	0.25	0.25	0.00	0.25
	Right Side at 0mm		0.34	0.10	0.16	0.34	0.10	0.16	0.27	0.27
	Top Side at 0 mm	0.54	0.28	1.06	0.17	0.82	1.60	0.72	1.23	1.77
WCDMA V	Rear Face at 15 mm	0.56	0.20	0.55	0.09	0.75	1.11	0.65	0.65	1.20
	Left Side at 8mm	0.32				0.32	0.32	0.32	0.00	0.32
	Right Side at 3mm		0.91	0.52	0.10	0.91	0.52	0.10	0.62	0.62
	Top Side at 25 mm	0.24	0.09	0.70	0.02	0.33	0.94	0.26	0.72	0.96
	Rear Face at 0mm	1.09	1.09	0.65	0.35	2.18	1.75	1.44	1.00	2.10
	Left Side at 0mm	0.22				0.22	0.22	0.22	0.00	0.22
	Right Side at 0mm		0.34	0.10	0.16	0.34	0.10	0.16	0.27	0.27
	Top Side at 0 mm	0.71	0.28	1.06	0.17	0.99	1.77	0.88	1.23	1.94
LTE Band 2	Rear Face at 15 mm	0.80	0.20	0.55	0.09	1.00	1.35	0.89	0.65	1.45
	Left Side at 8mm	0.61				0.61	0.61	0.61	0.00	0.61
	Right Side at 3mm		0.91	0.52	0.10	0.91	0.52	0.10	0.62	0.62
	Top Side at 25 mm	0.39	0.09	0.70	0.02	0.48	1.09	0.41	0.72	1.11
	Rear Face at 0mm	1.09	1.09	0.65	0.35	2.18	1.75	1.44	1.00	2.10
	Left Side at 0mm	0.37				0.37	0.37	0.37	0.00	0.37
	Right Side at 0mm		0.34	0.10	0.16	0.34	0.10	0.16	0.27	0.27
	Top Side at 0 mm	0.98	0.28	1.06	0.17	1.26	2.04	1.16	1.23	2.21
LTE Band 4	Rear Face at 15 mm	0.73	0.20	0.55	0.09	0.93	1.29	0.83	0.65	1.38
	Left Side at 8mm	0.63				0.63	0.63	0.63	0.00	0.63
	Right Side at 3mm		0.91	0.52	0.10	0.91	0.52	0.10	0.62	0.62
	Top Side at 25 mm	0.24	0.09	0.70	0.02	0.32	0.94	0.26	0.72	0.96
	Rear Face at 0mm	1.07	1.09	0.65	0.35	2.16	1.73	1.42	1.00	2.08
	Left Side at 0mm	0.26				0.26	0.26	0.26	0.00	0.26
	Right Side at 0mm		0.34	0.10	0.16	0.34	0.10	0.16	0.27	0.27
	Top Side at 0 mm	0.68	0.28	1.06	0.17	0.96	1.74	0.86	1.23	1.92

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WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	3+4 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1					
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)					
LTE Band 7	Rear Face at 15 mm	1.05	0.20	0.55	0.09	1.24	1.60	1.14	0.65	1.69
	Left Side at 8mm	0.71				0.71	0.71	0.71	0.00	0.71
	Right Side at 3mm		0.91	0.52	0.10	0.91	0.52	0.10	0.62	0.62
	Top Side at 25 mm	1.09	0.09	0.70	0.02	1.18	1.79	1.11	0.72	1.81
	Rear Face at 0mm	0.64	1.09	0.65	0.35	1.73	1.29	0.99	1.00	1.64
	Left Side at 0mm	0.20				0.20	0.20	0.20	0.00	0.20
	Right Side at 0mm		0.34	0.10	0.16	0.34	0.10	0.16	0.27	0.27
	Top Side at 0 mm	0.92	0.28	1.06	0.17	1.20	1.98	1.09	1.23	2.15
LTE Band 26	Rear Face at 15 mm	0.46	0.20	0.55	0.09	0.66	1.01	0.55	0.65	1.11
	Left Side at 8mm	0.28				0.28	0.28	0.28	0.00	0.28
	Right Side at 3mm		0.91	0.52	0.10	0.91	0.52	0.10	0.62	0.62
	Top Side at 25 mm	0.21	0.09	0.70	0.02	0.30	0.91	0.23	0.72	0.93
	Rear Face at 0mm	1.09	1.09	0.65	0.35	2.17	1.74	1.43	1.00	2.09
	Left Side at 0mm	0.20				0.20	0.20	0.20	0.00	0.20
	Right Side at 0mm		0.34	0.10	0.16	0.34	0.10	0.16	0.27	0.27
	Top Side at 0 mm	0.67	0.28	1.06	0.17	0.95	1.73	0.85	1.23	1.90
LTE Band 41	Rear Face at 15 mm	0.57	0.20	0.55	0.09	0.76	1.12	0.66	0.65	1.22
	Left Side at 8mm	0.36				0.36	0.36	0.36	0.00	0.36
	Right Side at 3mm		0.91	0.52	0.10	0.91	0.52	0.10	0.62	0.62
	Top Side at 25 mm	0.54	0.09	0.70	0.02	0.63	1.24	0.56	0.72	1.26
	Rear Face at 0mm	0.75	1.09	0.65	0.35	1.84	1.40	1.10	1.00	1.75
	Left Side at 0mm	0.17				0.17	0.17	0.17	0.00	0.17
	Right Side at 0mm		0.34	0.10	0.16	0.34	0.10	0.16	0.27	0.27
	Top Side at 0 mm	1.02	0.28	1.06	0.17	1.30	2.08	1.19	1.23	2.25

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## <SAR to Peak Location Separation Ratio Analysis>

The simultaneous transmitting antennas in each operating mode and exposure condition combination are considered one pair at a time to determine the SPLSR. When SAR is measured for both antennas in the pair, the peak location separation distance is computed by the following formula.

$$\text{Peak Location Separation Distance} = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2}$$

Where  $(x_1, y_1, z_1)$  and  $(x_2, y_2, z_2)$  are the coordinates of the extrapolated peak SAR locations in the area or zoom scans.

When standalone test exclusion applies, SAR is estimated; the peak location is assumed to be at the feed-point or geometric center of the antenna. Due to curvatures on the SAM phantom, when SAR is estimated for one of the antennas in an antenna pair, the measured peak SAR location will be translated onto the test device to determine the peak location separation for the antenna pair.

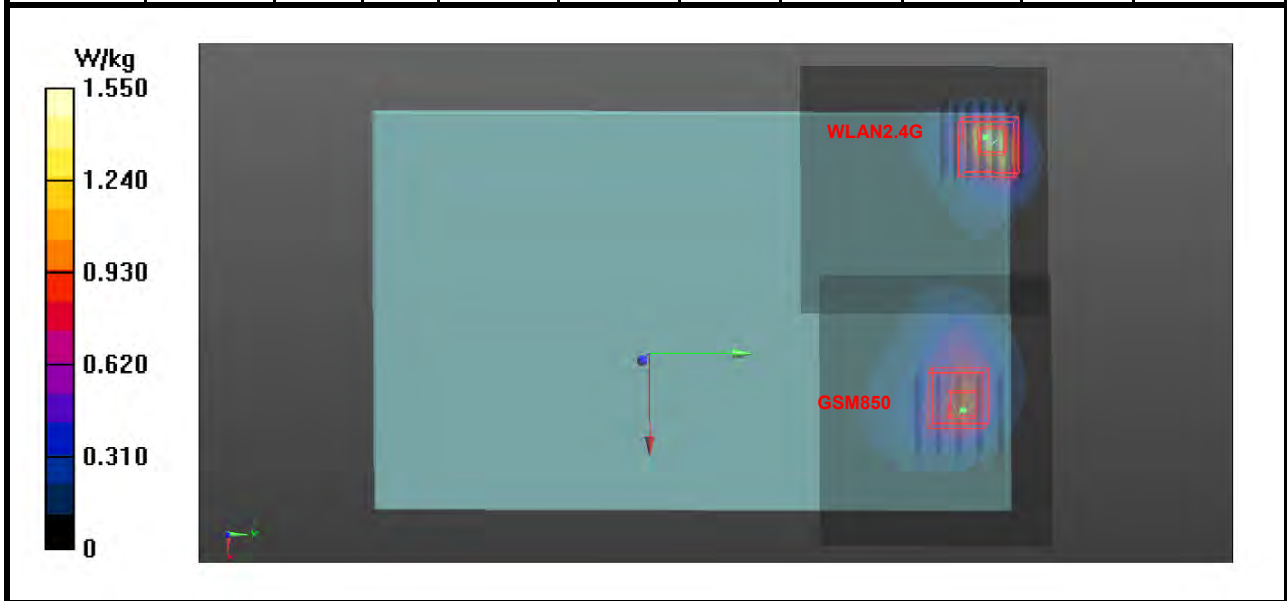
The SPLSR is determined by the following formula.

$$\text{SPLSR} = \frac{(SAR_1 + SAR_2)^{1.5}}{R_i}$$

Where  $SAR_1$  and  $SAR_2$  are the highest reported or estimated SAR for each antenna in the pair, and  $R_i$  is the separation distance between the peak SAR locations for the antenna pair in mm.

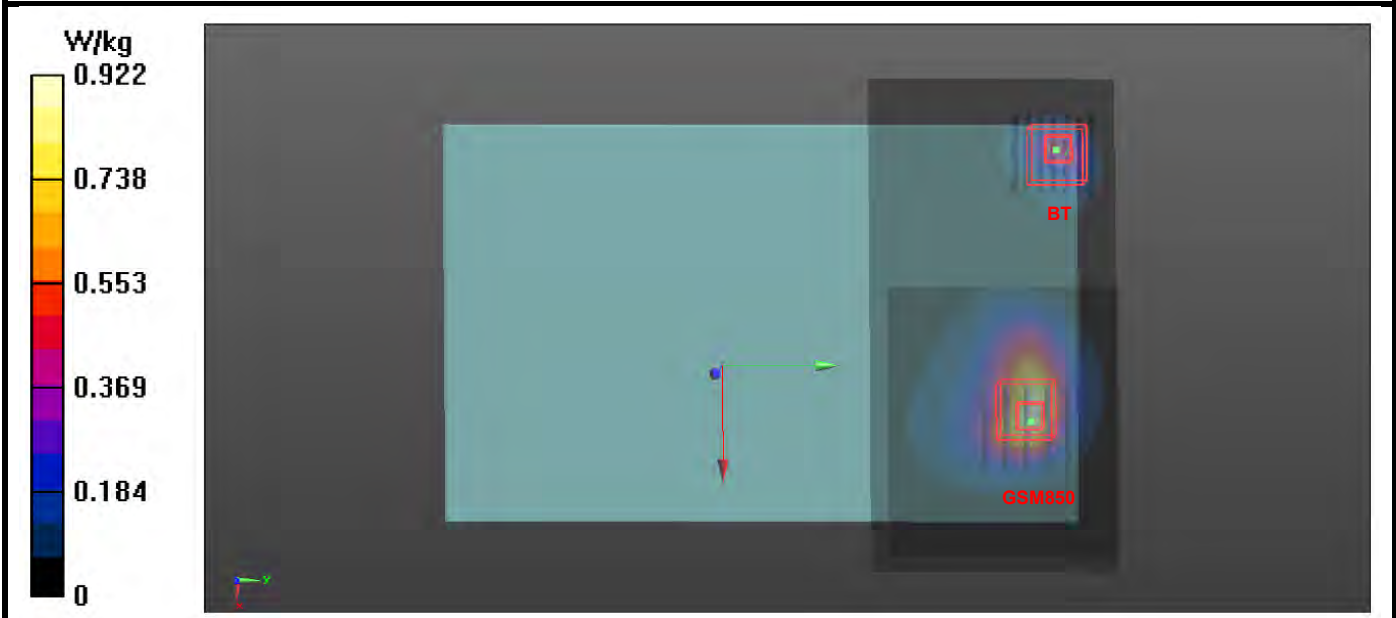
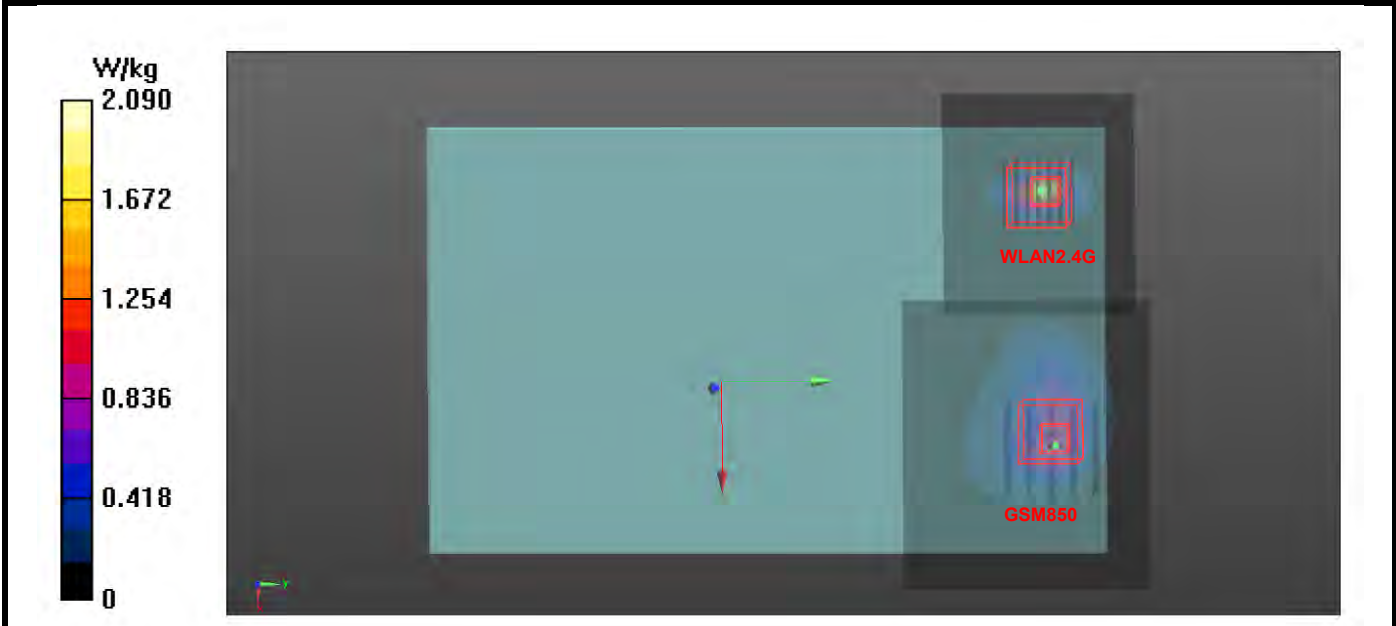
When the SPLSR is  $\leq 0.04$ , the simultaneous transmission SAR is not required. Otherwise, the enlarged zoom scan and volume scan post-processing procedures will be performed.

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
GSM850	Rear Face	0.77	0	0.0375	0.106	-0.182	106.8	1.86	0.02	Not required
WLAN2.4G		1.09	0	-0.0684	0.12	-0.181				



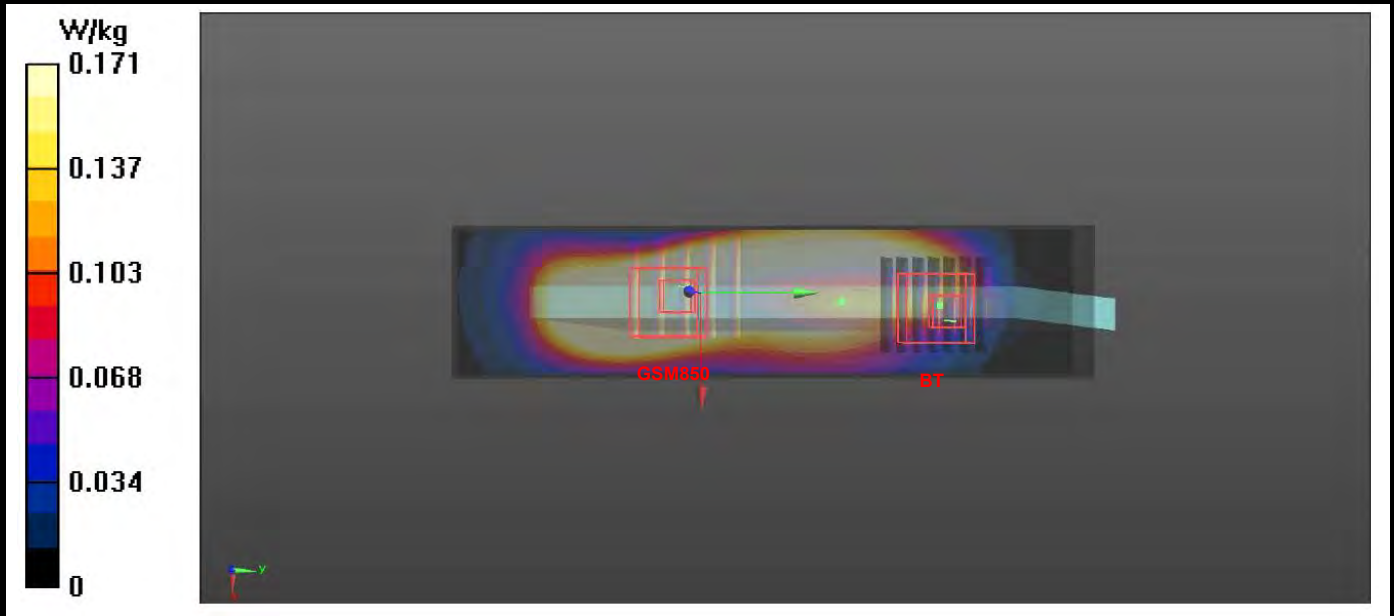
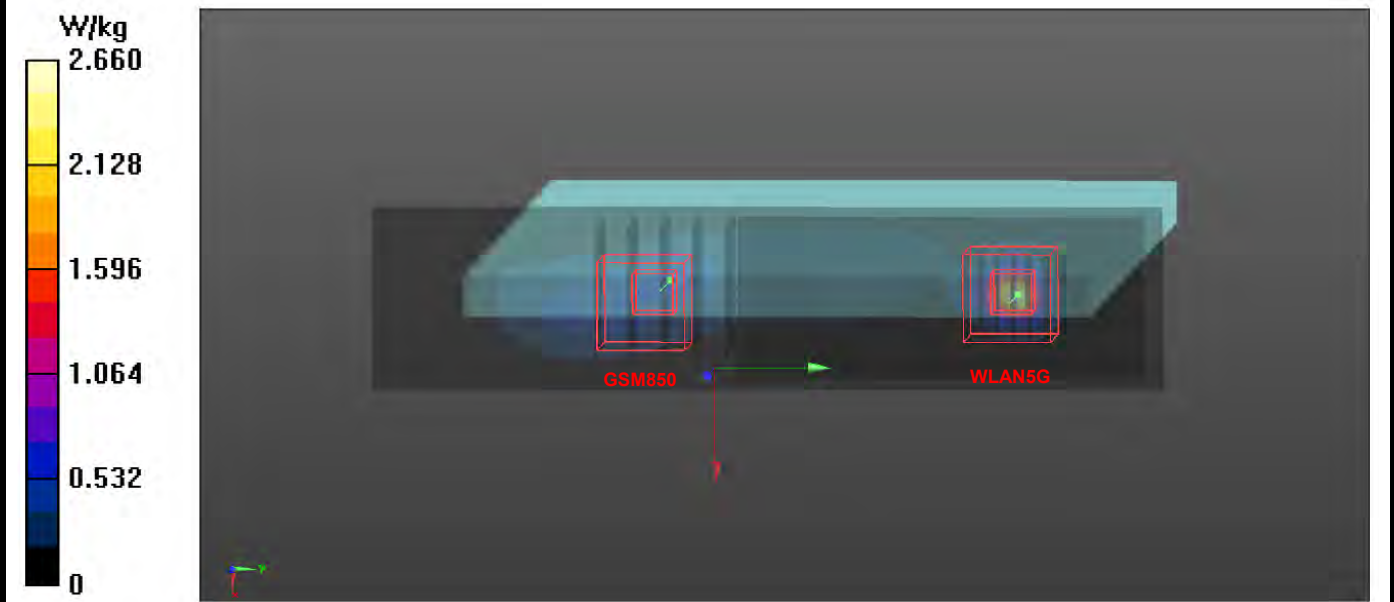
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Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
GSM850	Rear Face	0.77	0	0.0375	0.106	-0.182	92.6	1.43	0.02	Not required
WLAN5G		0.65	0	-0.055	0.101	-0.181				
GSM850	Rear Face	0.77	0	0.0375	0.106	-0.182	107.0	1.10	0.01	Not required
BT		0.32	0	-0.0684	0.121	-0.182				



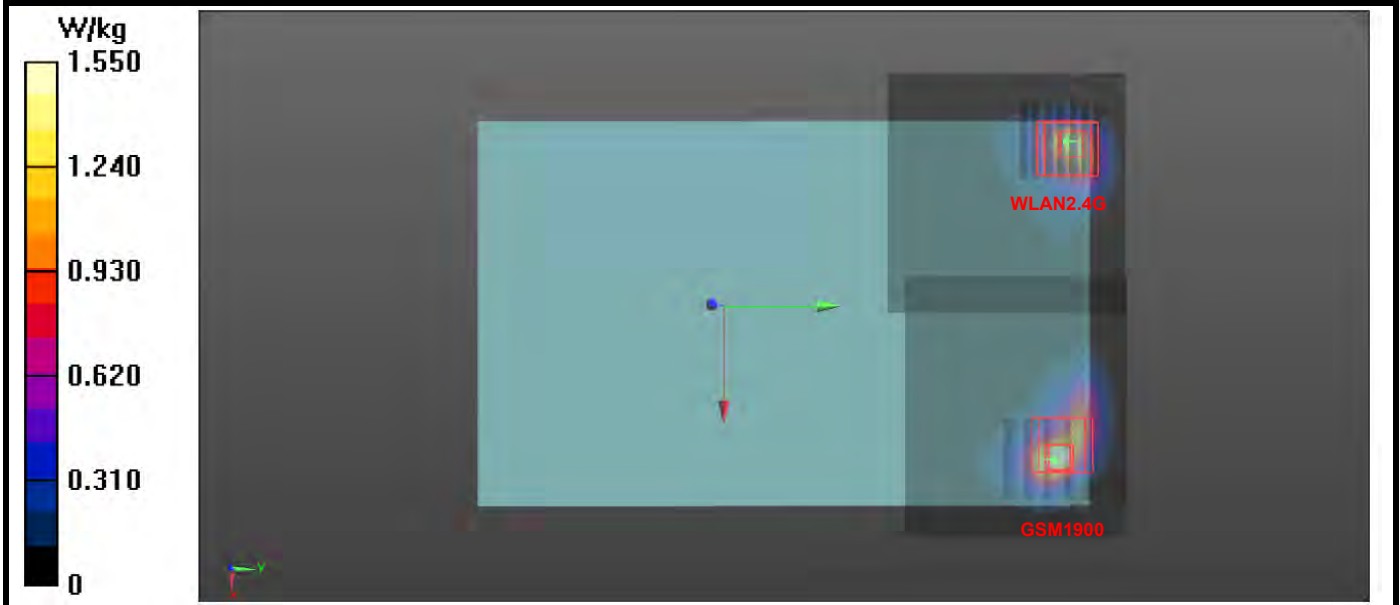
# FCC SAR Test Report

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
GSM850	Top Side	0.61	0	-0.0045	-0.0265	-0.183	85.6	1.67	0.03	Not required
WLAN5G		1.06	0	-0.001	0.059	-0.182				
GSM850	Top Side	0.61	0	-0.0045	-0.0265	-0.183	85.0	0.77	0.01	Not required
BT		0.16	0	0.0062	0.0578	-0.182				



# FCC SAR Test Report

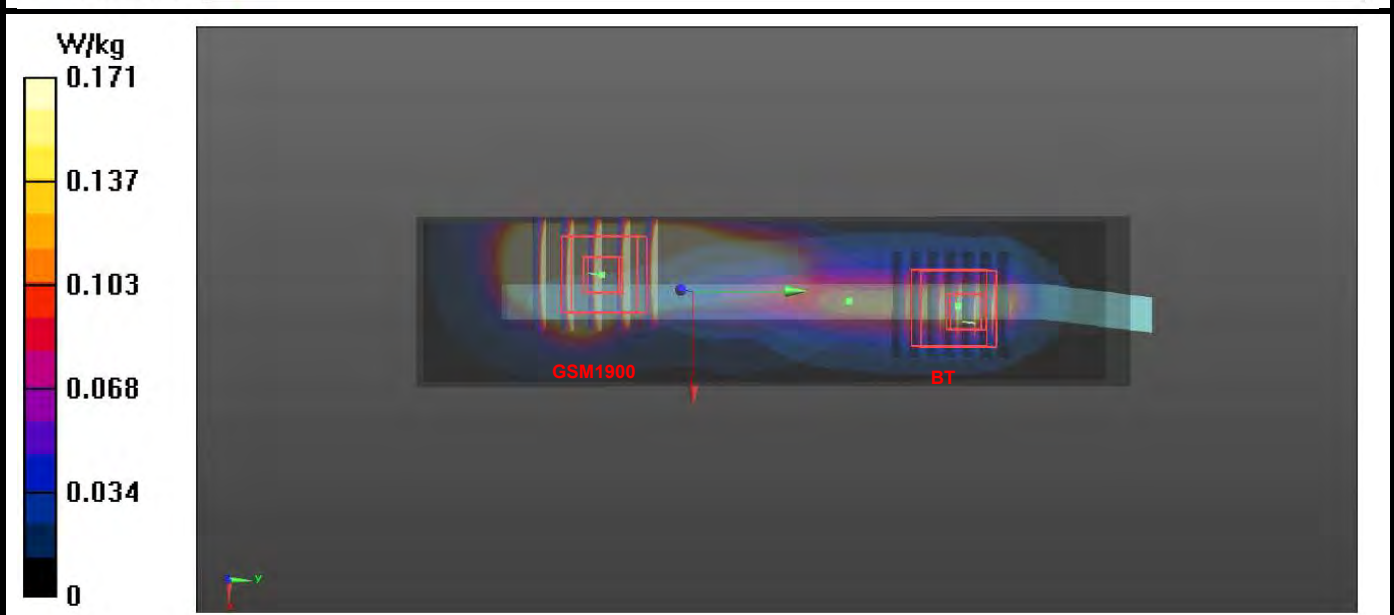
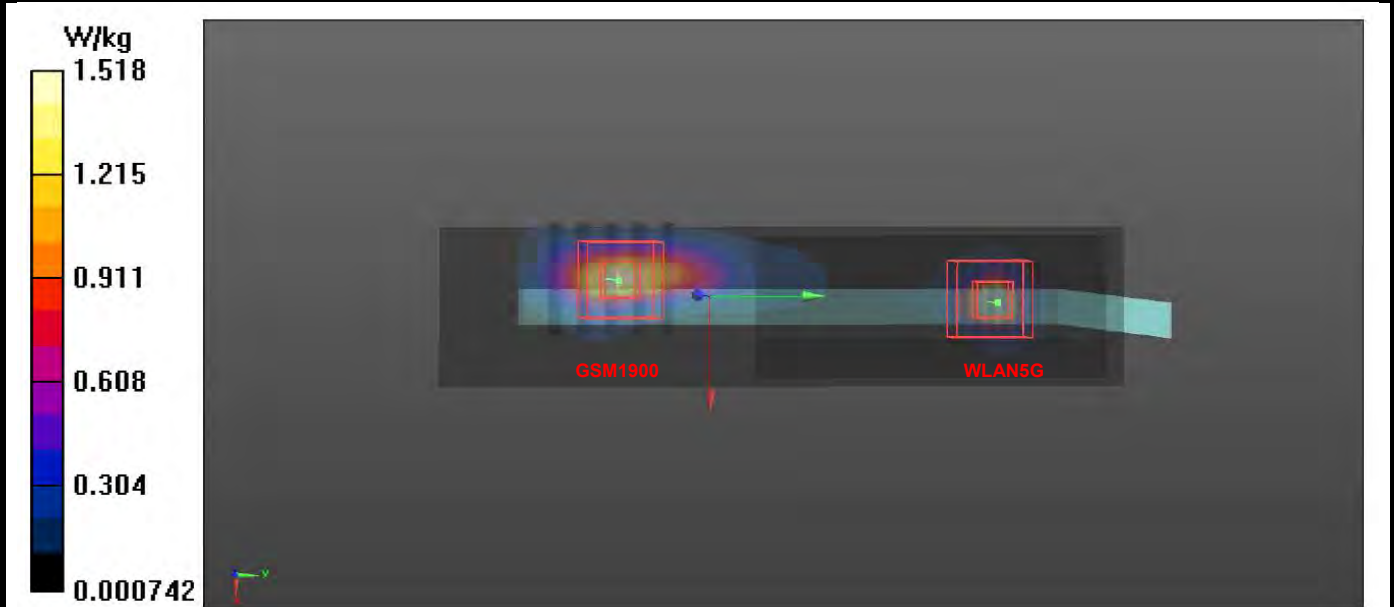
Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
GSM1900	Rear Face	1.10	0	0.0585	0.11	-0.181	127.3	2.19	0.03	Not required
WLAN2.4G		1.09	0	-0.0684	0.12	-0.181				





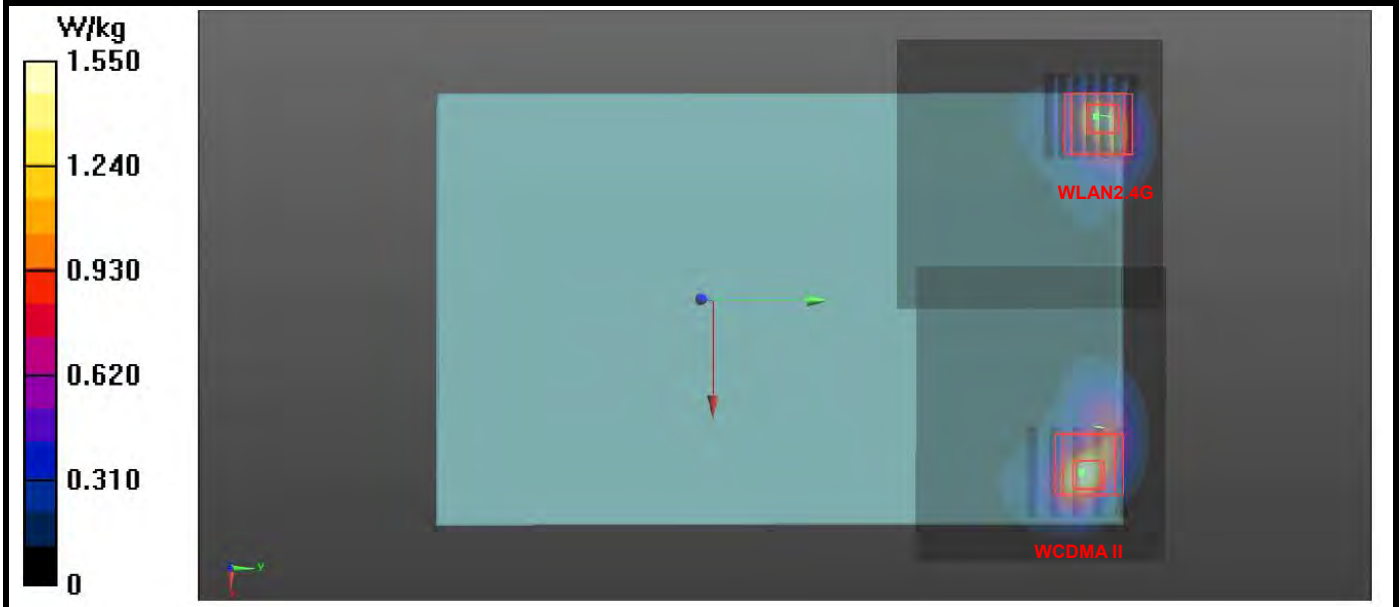
# FCC SAR Test Report

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
GSM1900	Top Side	0.96	0	-0.0075	-0.049	-0.183	108.2	2.02	0.03	Not required
WLAN5G		1.06	0	-0.001	0.059	-0.182				
GSM1900	Top Side	0.96	0	-0.0075	-0.049	-0.183	107.7	1.13	0.01	Not required
BT		0.16	0	0.0062	0.0578	-0.182				



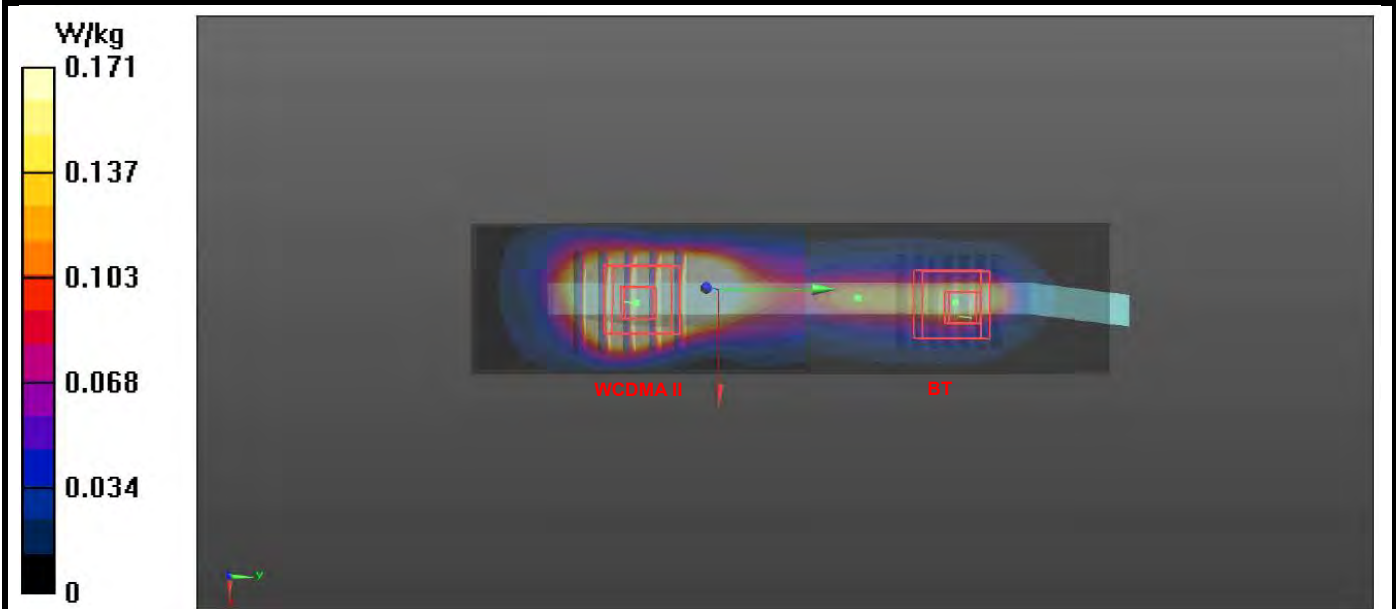
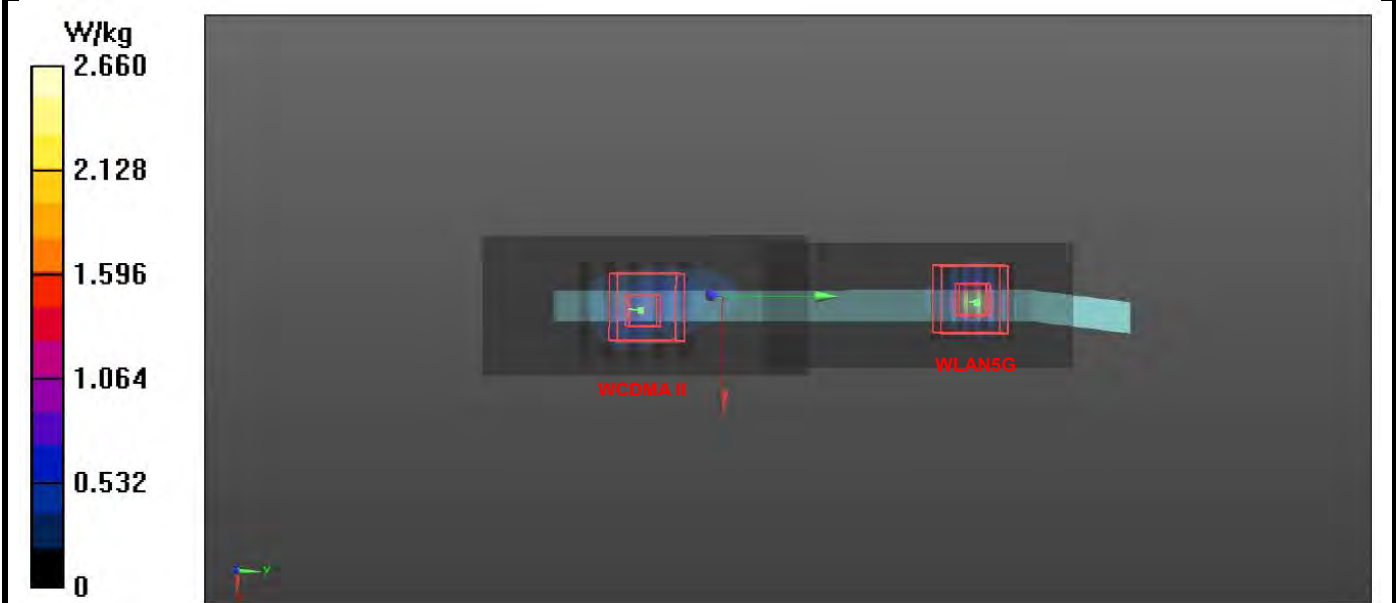
# FCC SAR Test Report

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WCDMA II	Rear Face	1.09	0	0.0425	0.118	-0.181	110.9	2.18	0.03	Not required
WLAN2.4G		1.09	0	-0.0684	0.12	-0.181				



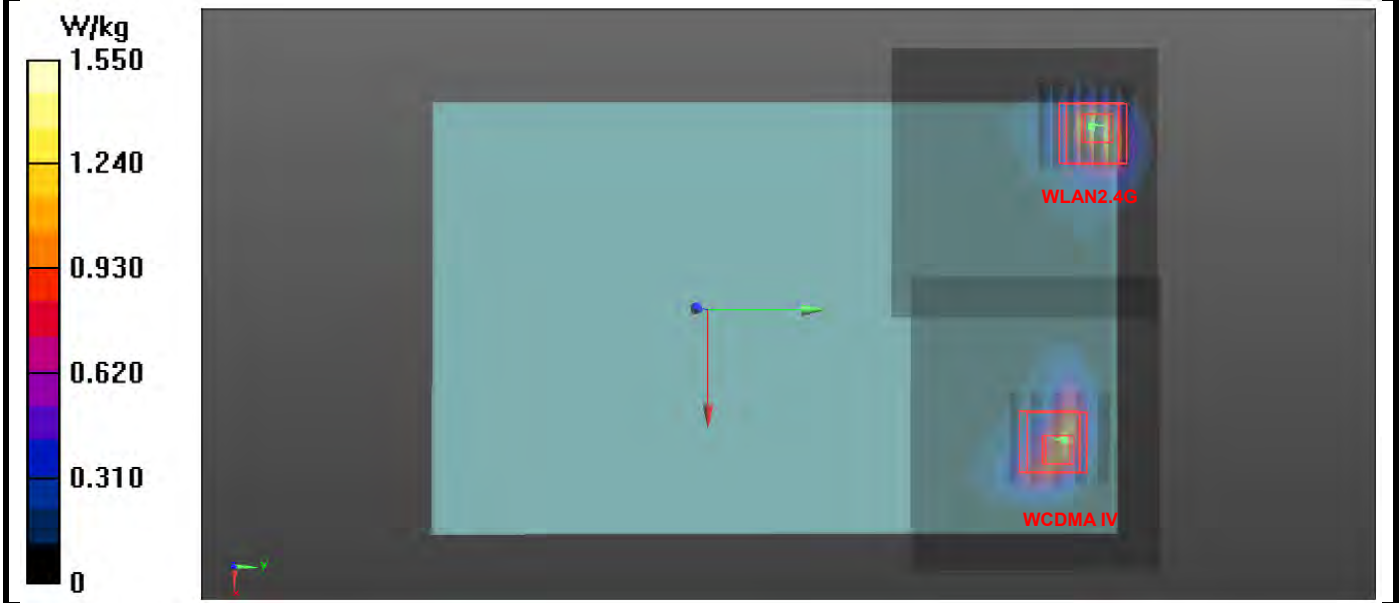
# FCC SAR Test Report

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WCDMA II	Top Side	0.95	0	0.0015	-0.049	-0.18	108.0	2.01	0.03	Not required
WLAN5G		1.06	0	-0.001	0.059	-0.182				
WCDMA II	Top Side	0.95	0	0.0015	-0.049	-0.18	106.9	1.11	0.01	Not required
BT		0.16	0	0.0062	0.0578	-0.182				



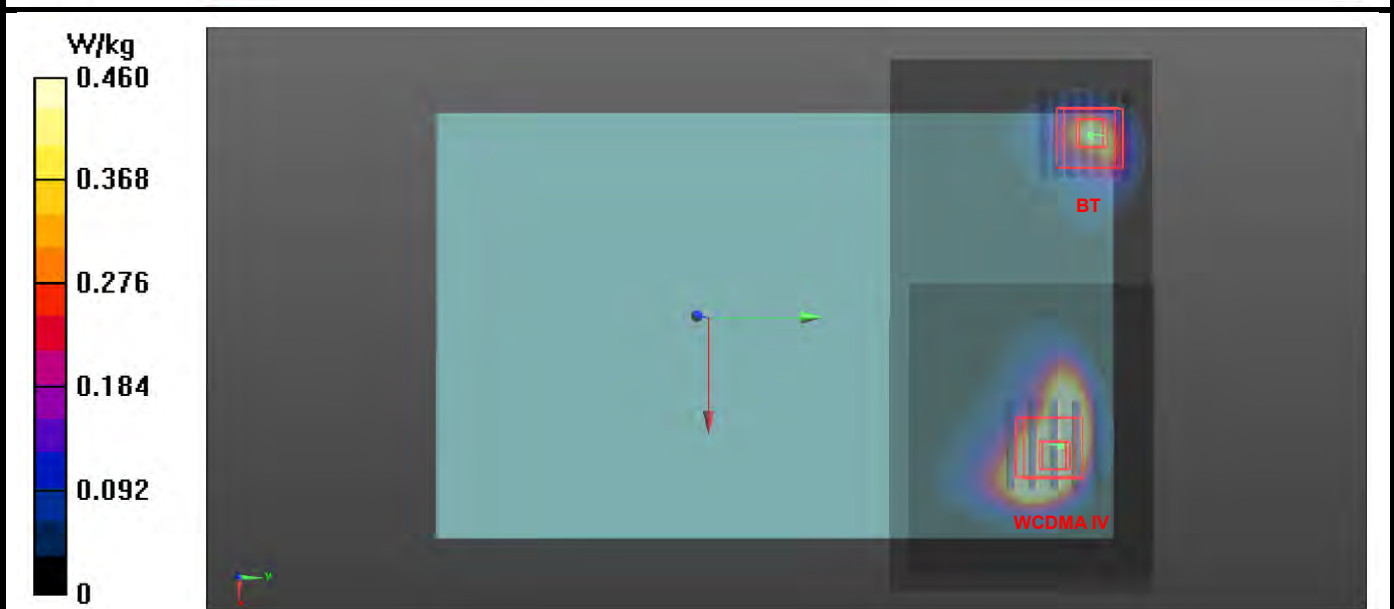
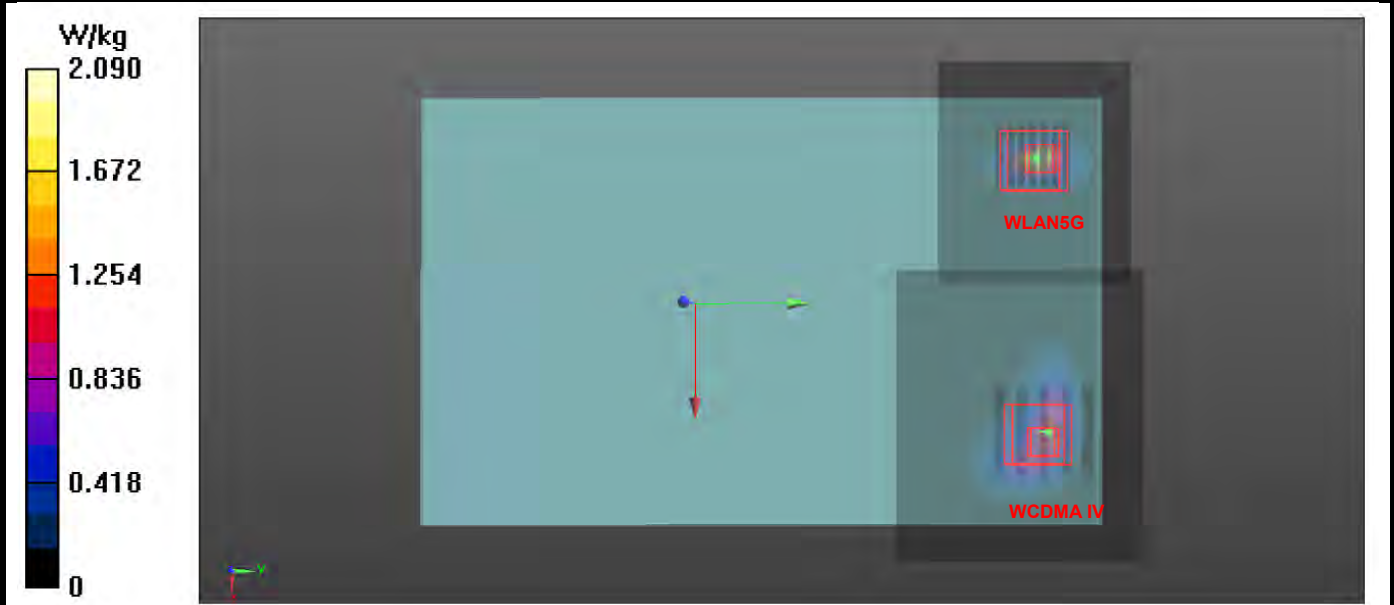
# FCC SAR Test Report

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WCDMA IV	Rear Face	0.96	0	0.0585	0.11	-0.181	127.3	2.05	0.02	Not required
WLAN2.4G		1.09	0	-0.0684	0.12	-0.181				



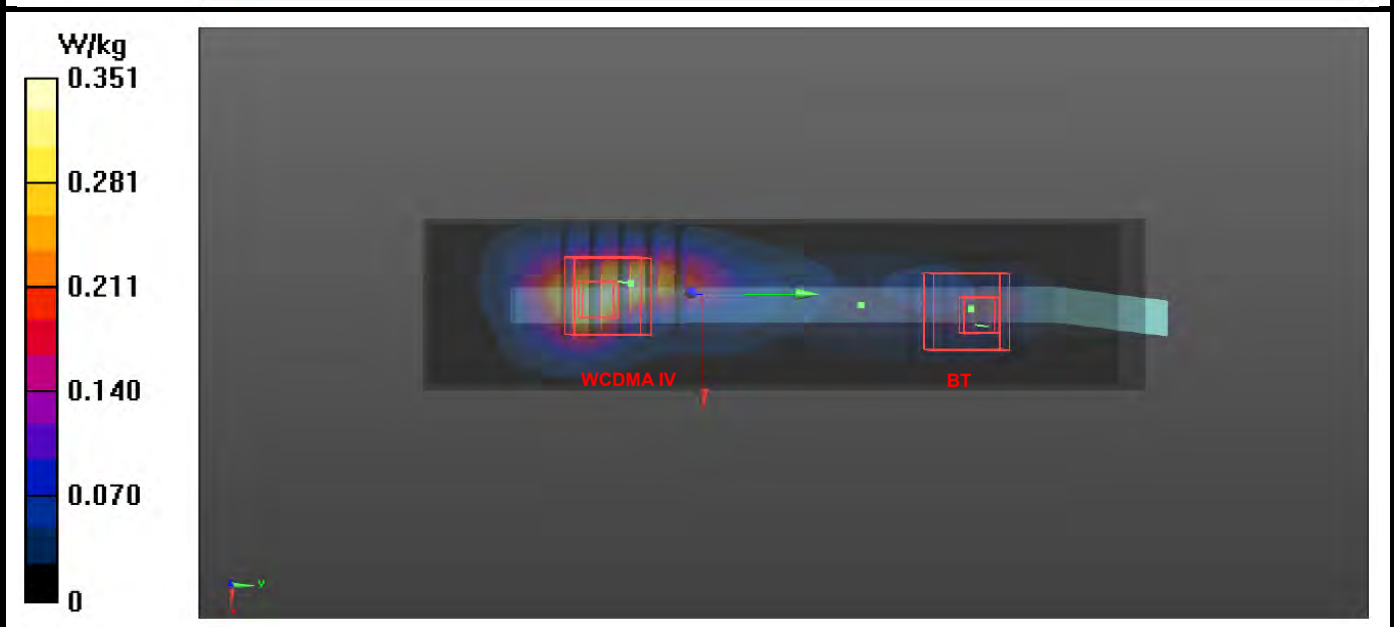
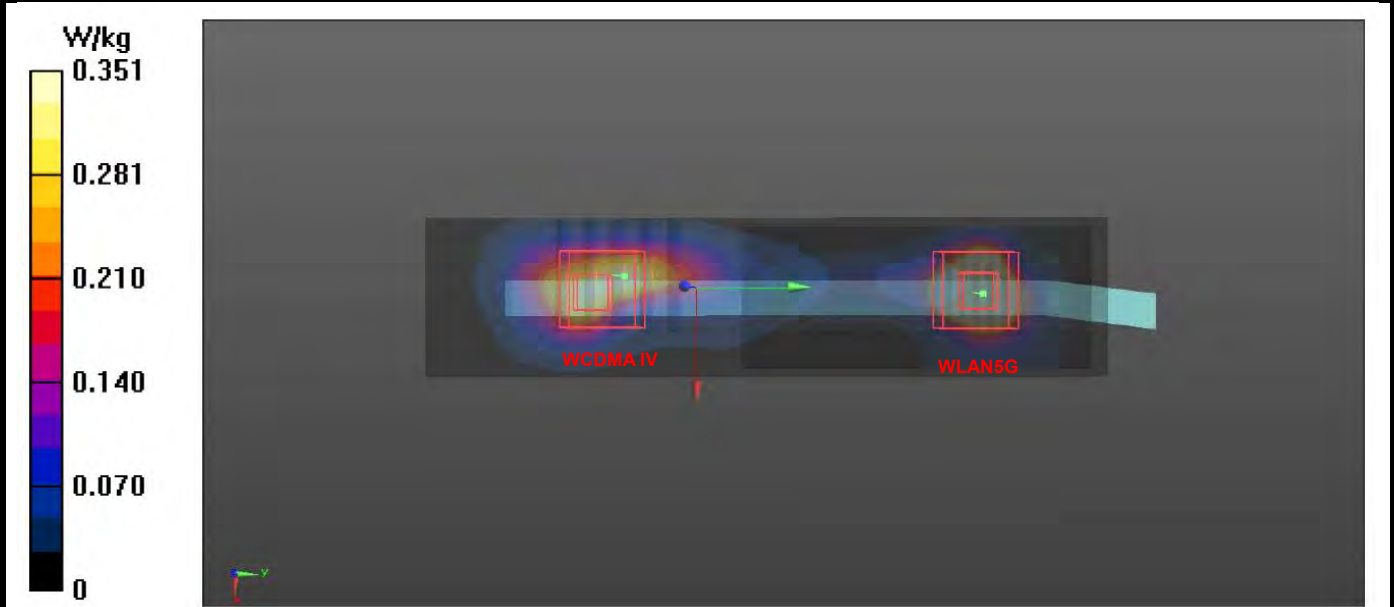
# FCC SAR Test Report

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WCDMA IV	Rear Face	0.96	0	0.0585	0.11	-0.181	113.9	1.61	0.02	Not required
WLAN5G		0.65	0	-0.055	0.101	-0.181				
WCDMA IV	Rear Face	0.96	0	0.0585	0.11	-0.181	127.4	1.28	0.01	Not required
BT		0.32	0	-0.0684	0.121	-0.182				



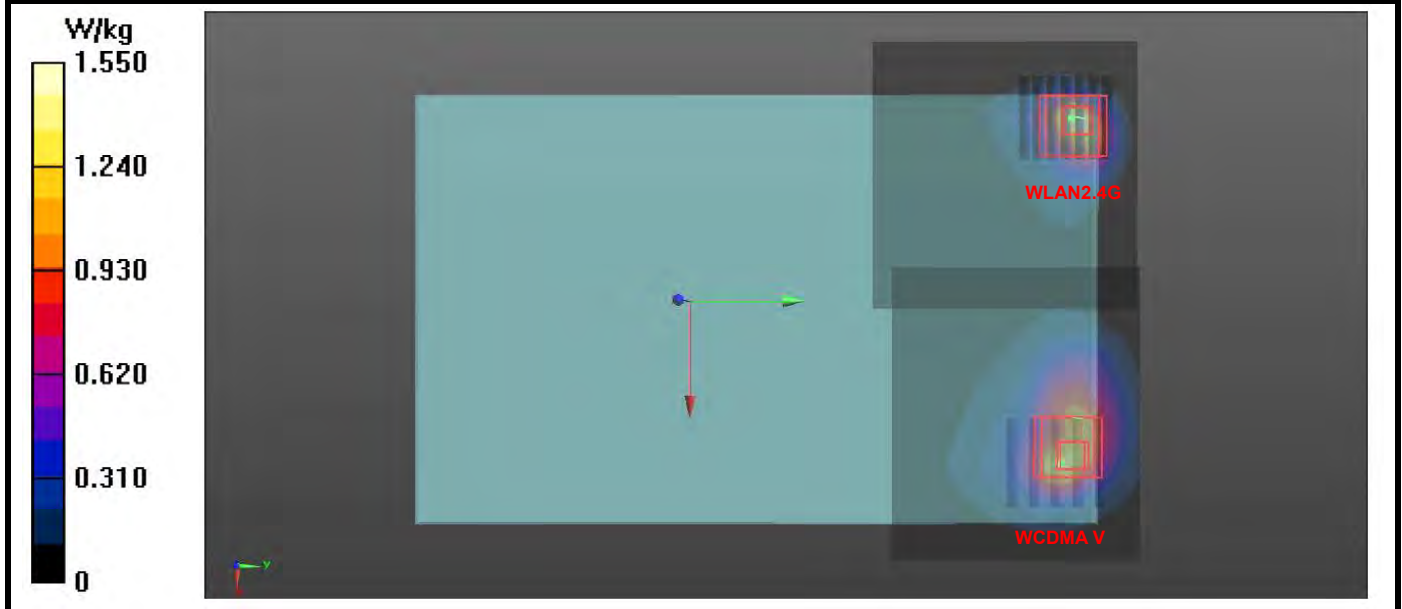
# FCC SAR Test Report

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WCDMA IV	Top Side	0.54	0	-0.006	-0.043	-0.18	102.1	1.60	0.02	Not required
WLAN5G		1.06	0	-0.001	0.059	-0.182				
WCDMA IV	Top Side	0.54	0	-0.006	-0.043	-0.18	101.6	0.70	0.01	Not required
BT		0.16	0	0.0062	0.0578	-0.182				



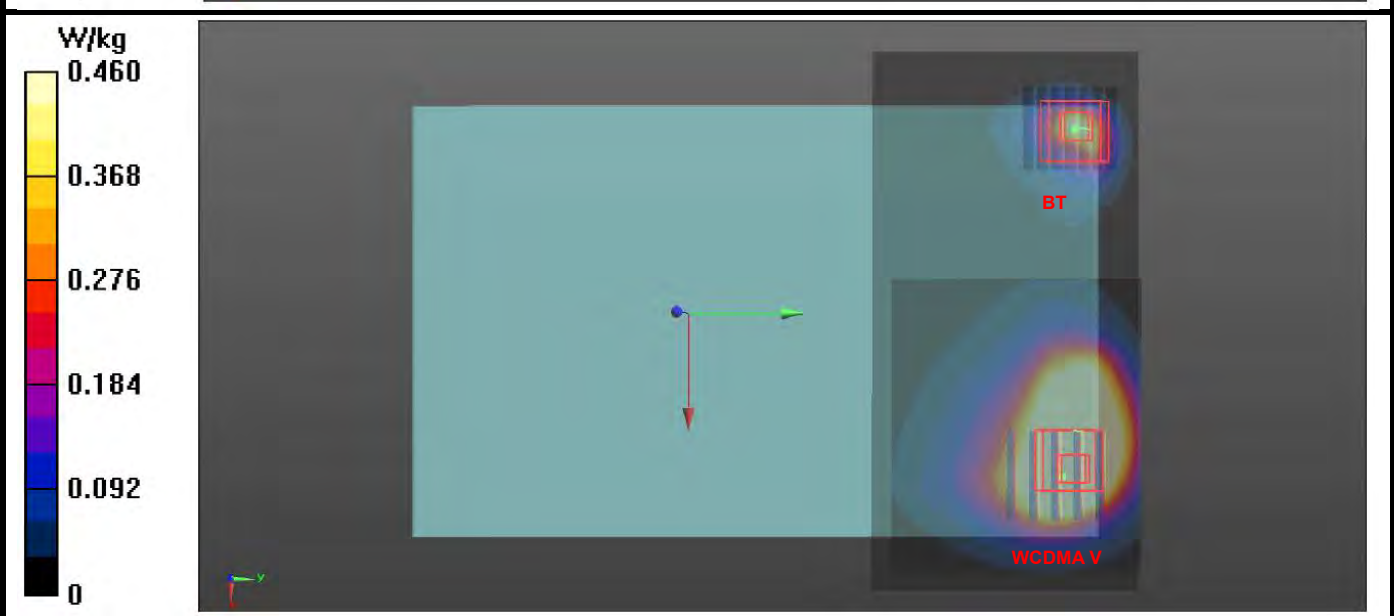
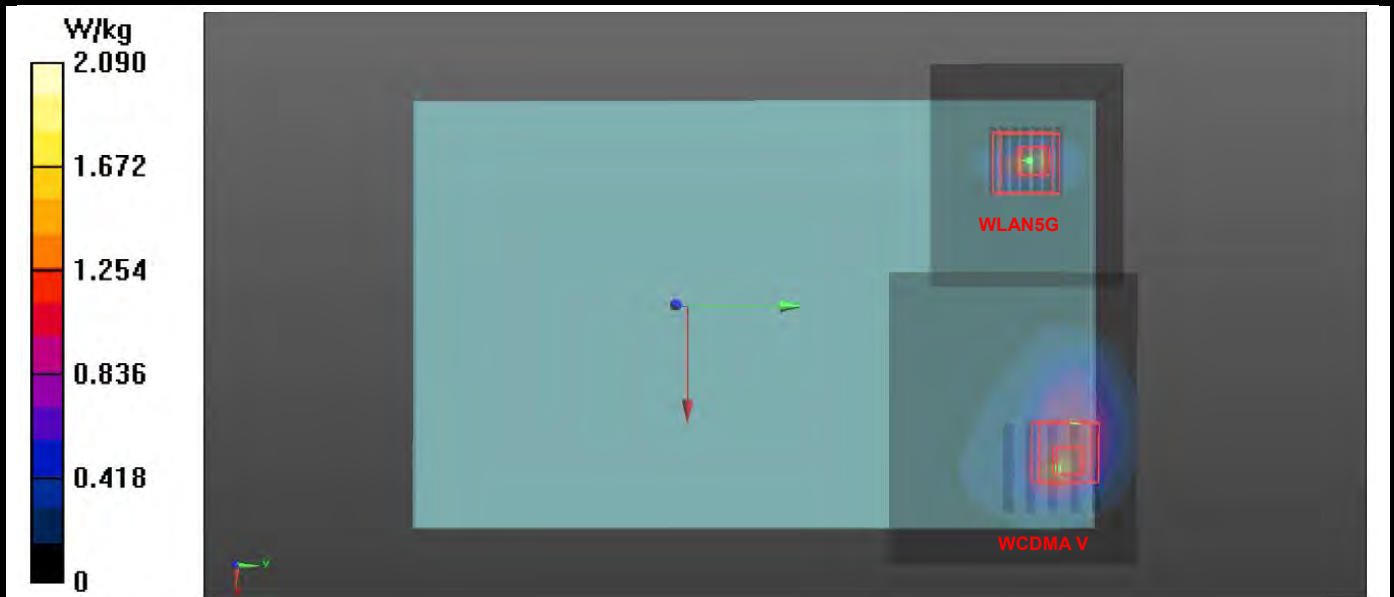
# FCC SAR Test Report

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WCDMA V	Rear Face	1.09	0	0.0395	0.12	-0.182	107.9	2.18	0.03	Not required
WLAN2.4G		1.09	0	-0.0684	0.12	-0.181				



# FCC SAR Test Report

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WCDMA V	Rear Face	1.09	0	0.0395	0.12	-0.182	96.4	1.75	0.02	Not required
WLAN5G		0.65	0	-0.055	0.101	-0.181				
WCDMA V	Rear Face	1.09	0	0.0395	0.12	-0.182	107.9	1.42	0.02	Not required
BT		0.32	0	-0.0684	0.121	-0.182				





# FCC SAR Test Report

Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				X	Y	Z				
WCDMA V	Top Side	0.71	0	-0.0045	-0.0265	-0.18	85.6	1.77	0.03	Not required
WLAN5G		1.06	0	-0.001	0.059	-0.182				
WCDMA V	Top Side	0.71	0	-0.0045	-0.0265	-0.18	85.0	0.87	0.01	Not required
BT		0.16	0	0.0062	0.0578	-0.182				

