

LIID	Pov	Communication System Name	Craun	DAD (dD)	UnoE tr 0
10 609	AAC	Communication System Name	Group	PAR (dB)	Unc ^E k = 2
		IEEE 802.11ac WiFi (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.57	±9.6
10610	AAC	IEEE 802.11ac WiFi (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.78	±9.6
10612	AAC	IEEE 802.11ac WiFi (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
10612	AAC	IEEE 802.11ac WiFi (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10614	AAC	IEEE 802.11ac WiFi (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.94	±9.6
	AAC	IEEE 802.11ac WiFi (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.59	±9.6
10615	AAC	IEEE 802.11ac WiFi (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
	AAC	IEEE 802.11ac WiFi (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.82	±9.6
10617	AAC	IEEE 802.11ac WiFi (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.81	±9.6
	AAC	IEEE 802.11ac WiFi (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.58	±9.6
10619	AAC	IEEE 802.11ac WiFi (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.86	±9.6
10620	AAC	IEEE 802.11ac WiFi (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.87	±9.6
10621	AAC	IEEE 802.11ac WiFi (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6
10622	AAC	IEEE 802.11ac WiFi (40 MHz, MCS6, 90pc duty cycle) IEEE 802.11ac WiFi (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.68	±9.6
10624	AAC		WLAN	8.82	±9.6
10625	AAC	IEEE 802.11ac WiFi (40 MHz, MCS8, 90pc duty cycle) IEEE 802.11ac WiFi (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.96	±9.6
10625	AAC		WLAN	8.96	±9.6
10626	AAC	IEEE 802.11ac WiFi (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6
10627	AAC	IEEE 802.11ac WiFi (80 MHz, MCS1, 90pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.88	±9.6
10628	AAC		WLAN	8.71	±9.6
10629	AAC	IEEE 802.11ac WiFi (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.85	±9.6
10630	AAC	IEEE 802.11ac WiFi (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.72	±9.6
10632	AAC	IEEE 802.11ac WiFi (80 MHz, MCS5, 90pc duty cycle) IEEE 802.11ac WiFi (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.81	±9.6
10632	AAC	IEEE 802.11ac WiFi (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.74	±9.6
10634	AAC	IEEE 802.11ac WiFi (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.83	±9.6
10634	AAC	IEEE 802.11ac WiFi (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.80	±9.6
10 636	AAD	IEEE 802.11ac WiFi (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.81	±9.6
10 637	AAD	IEEE 802.11ac WiFi (160 MHz, MCS1, 90pc duty cycle)	WLAN	8.83	±9.6
10638	AAD	IEEE 802.11ac WiFi (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.79	±9.6
10 639	AAD	IEEE 802.11ac WiFi (160 MHz, MCS3, 90pc duty cycle)	WLAN	8.86	±9.6
10 640	AAD	IEEE 802.11ac WiFi (160 MHz, MCS4, 90pc duty cycle)		8.85	±9.6
10641	AAD	IEEE 802.11ac WiFi (160 MHz, MCS5, 90pc duty cycle)	WLAN	8.98	±9.6
10642	AAD	IEEE 802.11ac WiFi (160 MHz, MCS6, 90pc duty cycle)	WLAN	9.06	±9.6
10643	AAD	IEEE 802.11ac WiFi (160 MHz, MCS7, 90pc duty cycle)	WLAN	9.06	±9.6
10644	AAD	IEEE 802.11ac WiFi (160 MHz, MCS8, 90pc duty cycle)	WLAN	8.89	±9.6
10645	AAD	IEEE 802.11ac WiFi (160 MHz, MCS9, 90pc duty cycle)	WLAN	9.05	±9.6
10646	AAH	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	9.11	±9.6
10647	AAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	±9.6
10652	AAF	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	±9.6
10653	AAF	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	±9.6
10654	AAE	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD		
10655	AAF	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	±9.6
10658	AAB	Pulse Waveform (200Hz, 10%)		7.21	±9.6
10659	AAB	Pulse Waveform (200Hz, 20%)	Test Test	10.00	±9.6
10660	AAB	Pulse Waveform (200Hz, 40%)	Test	6.99 3.98	±9.6
10661	AAB	Pulse Waveform (200Hz, 60%)	Test	2.22	±9.6
10662	AAB	Pulse Waveform (200Hz, 80%)	Test	0.97	
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	±9.6
10671	AAC	IEEE 802.11ax (20 MHz, MCS0, 90pc duty cycle)	WLAN		±9.6
10672	AAC	IEEE 802.11ax (20 MHz, MCS1, 90pc duty cycle)	WLAN	9.09	±9.6
10673	AAC	IEEE 802.11ax (20 MHz, MCS2, 90pc duty cycle)	WLAN	8.57 8.78	±9.6
10674	AAC	IEEE 802.11ax (20 MHz, MCS3, 90pc duty cycle)	WLAN	8.78	±9.6 ±9.6
10675	AAC	IEEE 802.11ax (20 MHz, MCS4, 90pc duty cycle)	WLAN	8.74	
10676	AAC	IEEE 802.11ax (20 MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6 ±9.6
10677	AAC	IEEE 802.11ax (20 MHz, MCS6, 90pc duty cycle)	WLAN	8.73	±9.6
10678	AAC	IEEE 802.11ax (20 MHz, MCS7, 90pc duty cycle)	WLAN	8.78	±9.6
10679	AAC	IEEE 802.11ax (20 MHz, MCS8, 90pc duty cycle)	WLAN	8.89	±9.6
10680	AAC	IEEE 802.11ax (20 MHz, MCS9, 90pc duty cycle)	WLAN	8.80	±9.6
10681	AAC	IEEE 802.11ax (20 MHz, MCS10, 90pc duty cycle)	WLAN	8.62	±9.6
10682	AAC	IEEE 802.11ax (20 MHz, MCS11, 90pc duty cycle)	WLAN	8.83	±9.6
10683	AAC	IEEE 802.11ax (20 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6
10684	AAC	IEEE 802.11ax (20 MHz, MCS1, 99pc duty cycle)	WLAN	8.26	±9.6
10685	AAC	IEEE 802.11ax (20 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6
10686	AAC	IEEE 802.11ax (20 MHz, MCS3, 99pc duty cycle)	WLAN	8.28	±9.6
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UID	Rev	Communication System Name	Group	PAR (dB)	$Unc^{E} k = 2$
10687	AAC	IEEE 802.11ax (20 MHz, MCS4, 99pc duty cycle)	WLAN	8.45	±9.6
10688	AAC	IEEE 802.11ax (20 MHz, MCS5, 99pc duty cycle)	WLAN	8.29	±9.6
10689	AAC	IEEE 802.11ax (20 MHz, MCS6, 99pc duty cycle)	WLAN	8.55	±9.6
10690	AAC	IEEE 802.11ax (20 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
10691	AAC	IEEE 802.11ax (20 MHz, MCS8, 99pc duty cycle)	WLAN	8.25	±9.6
10691	AAC	IEEE 802.11ax (20 MHz, MCS9, 99pc duty cycle)	WLAN	8.29	±9.6
10693	AAC	IEEE 802.11ax (20 MHz, MCS10, 99pc duty cycle)	WLAN	8.25	±9.6
10694	AAC	IEEE 802.11ax (20 MHz, MCS11, 99pc duty cycle)	WLAN	8.57	±9.6
10695	AAC	IEEE 802.11ax (40 MHz, MCS0, 90pc duty cycle)	WLAN	8.78	±9.6
10696	AAC	IEEE 802.11ax (40 MHz, MCS1, 90pc duty cycle)	WLAN	8.91	±9.6
10697	AAC	IEEE 802.11ax (40 MHz, MCS2, 90pc duty cycle)	WLAN	8.61	±9.6
10698	AAC	IEEE 802.11ax (40 MHz, MCS3, 90pc duty cycle)	WLAN	8.89	±9.6
10699	AAC	IEEE 802.11ax (40 MHz, MCS4, 90pc duty cycle)	WLAN	8.82	±9.6
10700	AAC	IEEE 802.11ax (40 MHz, MCS5, 90pc duty cycle)	WLAN	8.73	±9.6
10701	AAC	IEEE 802.11ax (40 MHz, MCS6, 90pc duty cycle)	WLAN	8.86	±9.6
10701	AAC	IEEE 802.11ax (40 MHz, MCS7, 90pc duty cycle)	WLAN	8.70	±9.6
10703	AAC	IEEE 802.11ax (40 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
10704	AAC	IEEE 802.11ax (40 MHz, MCS9, 90pc duty cycle)	WLAN	8.56	±9.6
10705	AAC	IEEE 802.11ax (40 MHz, MCS10, 90pc duty cycle)	WLAN	8.69	±9.6
10706	AAC	IEEE 802.11ax (40 MHz, MCS11, 90pc duty cycle)	WLAN	8.66	±9.6
10707	AAC	IEEE 802.11ax (40 MHz, MCS0, 99pc duty cycle)	WLAN	8.32	±9.6
10708	AAC	IEEE 802.11ax (40 MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9.6
10709	AAC	IEEE 802.11ax (40 MHz, MCS2, 99pc duty cycle)	WLAN	8.33	±9.6
10710	AAC	IEEE 802.11ax (40 MHz, MCS3, 99pc duty cycle)	WLAN	8.29	±9.6
10711	AAC	IEEE 802.11ax (40 MHz, MCS4, 99pc duty cycle)	WLAN	8.39	±9.6
10712	AAC	IEEE 802.11ax (40 MHz, MCS5, 99pc duty cycle)	WLAN	8.67	±9.6
10713	AAC	IEEE 802.11ax (40 MHz, MCS6, 99pc duty cycle)	WLAN	8.33	±9.6
10714	AAC	IEEE 802.11ax (40 MHz, MCS7, 99pc duty cycle)	WLAN	8.26	±9.6
10715	AAC	IEEE 802.11ax (40 MHz, MCS8, 99pc duty cycle)	WLAN	8.45	±9.6
10716	AAC	IEEE 802.11ax (40 MHz, MCS9, 99pc duty cycle)	WLAN	8.30	±9.6
10717	AAC	IEEE 802.11ax (40 MHz, MCS10, 99pc duty cycle)	WLAN	8.48	±9.6
10718	AAC	IEEE 802.11ax (40 MHz, MCS11, 99pc duty cycle)	WLAN	8.24	±9.6
10719	AAC	IEEE 802.11ax (80 MHz, MCS0, 90pc duty cycle)	WLAN	8.81	±9.6
10720	AAC	IEEE 802.11ax (80 MHz, MCS1, 90pc duty cycle)	WLAN	8.87	±9.6
10721	AAC	IEEE 802.11ax (80 MHz, MCS2, 90pc duty cycle)	WLAN	8.76	±9.6
10722	AAC	IEEE 802.11ax (80 MHz, MCS3, 90pc duty cycle)	WLAN	8.55	±9.6
10723	AAC	IEEE 802.11ax (80 MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6
10724	AAC	IEEE 802.11ax (80 MHz, MCS5, 90pc duty cycle)	WLAN	8.90	±9.6
10725	AAC	IEEE 802.11ax (80 MHz, MCS6, 90pc duty cycle)	WLAN	8.74	±9.6
10726	AAC	IEEE 802.11ax (80 MHz, MCS7, 90pc duty cycle)	WLAN	8.72	±9.6
10727	AAC	IEEE 802.11ax (80 MHz, MCS8, 90pc duty cycle)	WLAN	8.66	±9.6
10728	AAC	IEEE 802.11ax (80 MHz, MCS9, 90pc duty cycle)	WLAN	8.65	±9.6
10729	AAC	IEEE 802.11ax (80 MHz, MCS10, 90pc duty cycle)	WLAN	8.64	±9.6
10730	AAC	IEEE 802.11ax (80 MHz, MCS11, 90pc duty cycle)	WLAN	8.67	±9.6
10731	AAC	IEEE 802.11ax (80 MHz, MCS0, 99pc duty cycle)	WLAN	8.42	±9.6
10732	AAC	IEEE 802.11ax (80 MHz, MCS1, 99pc duty cycle)	WLAN	8.46	±9.6
10733	AAC	IEEE 802.11ax (80 MHz, MCS2, 99pc duty cycle)	WLAN	8.40	±9.6
10734	AAC	IEEE 802.11ax (80 MHz, MCS3, 99pc duty cycle)	WLAN	8.25	±9.6
10735	AAC	IEEE 802.11ax (80 MHz, MCS4, 99pc duty cycle)	WLAN	8.33	±9.6
10736	AAC	IEEE 802.11ax (80 MHz, MCS5, 99pc duty cycle)	WLAN	8.27	±9.6
10737	AAC	IEEE 802.11ax (80 MHz, MCS6, 99pc duty cycle)	WLAN	8.36	±9.6
10738	AAC	IEEE 802.11ax (80 MHz, MCS7, 99pc duty cycle)	WLAN	8.42	±9.6
10739	AAC	IEEE 802.11ax (80 MHz, MCS8, 99pc duty cycle)	WLAN	8.29	±9.6
10740	AAC	IEEE 802.11ax (80 MHz, MCS9, 99pc duty cycle)	WLAN	8.48	±9.6
10741	AAC	IEEE 802.11ax (80 MHz, MCS10, 99pc duty cycle)	WLAN	8.40	±9.6
10742	AAC	IEEE 802.11ax (80 MHz, MCS11, 99pc duty cycle)	WLAN	8.43	±9.6
10743	AAC	IEEE 802.11ax (160 MHz, MCS0, 90pc duty cycle)	WLAN	8.94	±9.6
10744	AAC	IEEE 802.11ax (160 MHz, MCS1, 90pc duty cycle)	WLAN	9.16	±9.6
10745	AAC	IEEE 802.11ax (160 MHz, MCS2, 90pc duty cycle)	WLAN	8.93	±9.6
10746	AAC	IEEE 802.11ax (160 MHz, MCS3, 90pc duty cycle)	WLAN	9.11	±9.6
10747	AAC	IEEE 802.11ax (160 MHz, MCS4, 90pc duty cycle)	WLAN	9.04	±9.6
10748	AAC	IEEE 802.11ax (160 MHz, MCS5, 90pc duty cycle)	WLAN	8.93	±9.6
10749	AAC	IEEE 802.11ax (160 MHz, MCS6, 90pc duty cycle)	WLAN	8.90	±9.6
10750	AAC	IEEE 802.11ax (160 MHz, MCS7, 90pc duty cycle)	WLAN	8.79	±9.6
10751	AAC	IEEE 802.11ax (160 MHz, MCS8, 90pc duty cycle)	WLAN	8.82	±9.6
10752	AAC	IEEE 802.11ax (160 MHz, MCS9, 90pc duty cycle)	WLAN	8.81	±9.6
			175714	0.01	±0.0

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UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E k = 2
10753	AAC	IEEE 802.11ax (160 MHz, MCS10, 90pc duty cycle)	WLAN	9.00	±9.6
10754	AAC	IEEE 802.11ax (160 MHz, MCS11, 90pc duty cycle)	WLAN	8.94	±9.6
10755	AAC	IEEE 802.11ax (160 MHz, MCS0, 99pc duty cycle)	WLAN	8.64	±9.6
10756	AAC	IEEE 802.11ax (160 MHz, MCS1, 99pc duty cycle)	WLAN	8.77	±9.6
10757	AAC	IEEE 802.11ax (160 MHz, MCS2, 99pc duty cycle)	WLAN	8.77	±9.6
10758	AAC	IEEE 802.11ax (160 MHz, MCS3, 99pc duty cycle)	WLAN	8.69	±9.6
10759	AAC	IEEE 802.11ax (160 MHz, MCS4, 99pc duty cycle)	WLAN	8.58	±9.6
10760	AAC	IEEE 802.11ax (160 MHz, MCS5, 99pc duty cycle)	WLAN	8.49	±9.6
10761	AAC	IEEE 802.11ax (160 MHz, MCS6, 99pc duty cycle)	WLAN	8.58	±9.6
10762	AAC	IEEE 802.11ax (160 MHz, MCS7, 99pc duty cycle)	WLAN	8.49	±9.6
10763	AAC	IEEE 802.11ax (160 MHz, MCS8, 99pc duty cycle)	WLAN	8.53	±9.6
10764	AAC	IEEE 802.11ax (160 MHz, MCS9, 99pc duty cycle)	WLAN	8.54	±9.6
10765	AAC	IEEE 802.11ax (160 MHz, MCS10, 99pc duty cycle)	WLAN	8.54	±9.6
10766	AAC	IEEE 802.11ax (160 MHz, MCS11, 99pc duty cycle)	WLAN	8.51	±9.6
10767	AAE	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	±9.6
10768	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.6
10769	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.6
10770	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10771	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10772	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	±9.6
10773	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.03	±9.6
10774	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.6
10775	AAD	5G NR (CP-OFDM, 50% RB, 5MHz, QPSK, 15kHz)	5G NR FR1 TDD	8.31	±9.6
10776	AAC	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6
10777	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz) 5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.6
10778	AAC	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	±9.6
10779	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15kHz)	5G NR FR1 TDD 5G NR FR1 TDD	8.42 8.38	±9.6
10781	AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15kHz)	5G NR FR1 TDD	8.38	±9.6 ±9.6
10782	AAD	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	±9.6
10783	AAE	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	±9.6
10784	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.29	±9.6
10785	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	±9.6
10786	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	±9.6
10787	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	±9.6
10788	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6
10789	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	±9.6
10790	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6
10791	AAE	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	±9.6
10792	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	±9.6
10793	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	±9.6
10794	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	±9.6
10795	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	±9.6
10796	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	±9.6
10797	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	±9.6
10798	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6
10799	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	±9.6
10801	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	±9.6
10802	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	±9.6
10803		5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50%, PR, 10 MHz, QPSK, 20 kHz)	5G NR FR1 TDD	7.93	±9.6
10805	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10806	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	±9.6
10809	AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10810	AAD	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	+9.6
10817	AAE	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35 8.35	±9.6
10818	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.6
10819	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	±9.6
10820	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.30	±9.6
10821	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
10822	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
10823	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.36	±9.6
10824	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	±9.6
10825	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
10827	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.42	±9.6
10828	AAD	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	±9.6

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10829 AAD 80 NR (CP-CPEM, 1916, 100 MHz, CPEK, 50 MHz)	UID	Rev	Communication System Name			E
1889 AAD 80 NR (CP-CPEM, 18) 15MHz, QPSK, 60HHz S0 NR FRI TDD 77,81 19.68 19.88 AAD 80 NR (CP-CPEM, 18) 15MHz, QPSK, 60HHz S0 NR FRI TDD 77,74 19.68 19.88 AAD 80 NR (CP-CPEM, 18) 25MHz, QPSK, 60HHz S0 NR FRI TDD 77,74 19.68 19.88 AAD 80 NR (CP-CPEM, 18) 25MHz, QPSK, 60HHz S0 NR FRI TDD 77,75 19.68 19.88 AAD 80 NR (CP-CPEM, 18) 25MHz, QPSK, 60HHz S0 NR FRI TDD 77,75 19.68 19.88 AAD 80 NR (CP-CPEM, 18) 25MHz, QPSK, 60HHz S0 NR FRI TDD 77,85 19.68 19.88 AAD 80 NR (CP-CPEM, 18) 25MHz, QPSK, 60HHz S0 NR FRI TDD 77,86 19.68 19.88 AAD 80 NR (CP-CPEM, 18) 25MHz, QPSK, 60HHz S0 NR FRI TDD 77,86 19.68 19.88 AAD 80 NR (CP-CPEM, 18) 25MHz, QPSK, 60HHz S0 NR FRI TDD 77,86 19.68 19.88 AAD 80 NR (CP-CPEM, 18) 25MHz, QPSK, 60HHz S0 NR FRI TDD 77,86 19.68 19.88 AAD 80 NR (CP-CPEM, 18) 25MHz, QPSK, 60HHz S0 NR (PR TI TDD 77,97 19.68 19.88 AAD 80 NR (CP-CPEM, 18) 25MHz, QPSK, 60HHz S0 NR (PR TI TDD 77,97 19.68 19.88 AAD 80 NR (CP-CPEM, 18) 25MHz, QPSK, 60HHz S0 NR (PR TI TDD 77,97 19.68 19.88 AAD 80 NR (CP-CPEM, 18) 25MHz, QPSK, 60HHz S0 NR (PR TI TDD 77,97 19.68 19.88 AAD 80 NR (CP-CPEM, 18) 25MHz, QPSK, 60HHz S0 NR (PR TI TDD 77,97 19.68 AAD 80 NR (CP-CPEM, 18) 25MHz, QPSK, 60HHz S0 NR (PR TI TDD 77,97 19.68 AAD 80 NR (CP-CPEM, 18) 25MHz, QPSK, 60HHz S0 NR (PR TI TDD 77,97 19.68 AAD 80 NR (CP-CPEM, 18) 25MHz, QPSK, 60HHz S0 NR (PR TI TDD 77,97 19.68 AAD 80 NR (CP-CPEM, 18) 25MHz, QPSK, 60HHz S0 NR (PR TI TDD 83 NR (PR TI T					- ' '	
10052 AAD 36 NR (CP-OFDM, 189, 15MHz, GPSK, 60Hz)		_				
10832 AAD						
1983 AAD SA NR (CPOPEM, 1 RB, 20 MHz, CPSK, 60 MHz) SA NR FRI TIDD 7.70 19.6						
1985 AAD S. N. PIC-POFEM, 1 PR. J. 20Mfz, OPSK, 6014t2 50 NR FRI TIDD 7.75 19.6						
1985 AAD SG NR (CP-OFDM, 1R8, 50MHz, OPSK, 60Hz)		-				
1985 ADD SC NP (CP OFDM. 1 RB. 90 MHz, OPSK, 60 MHz) SON RFR1 TDD 7.68 9.96 19.81 19.82 19.8		-				
1988] ADD SON NIC (POPEM, 1R. 8, 90 MHz, OPSK, 60 MHz) SON REPRITOD 7-68 198 1984 ADD SON NIC (POPEM, 1R. 8, 90 MHz, OPSK, 60 MHz) SON REPRITOD 7-70 19.6		_				
1989 AAD SO NR (CP-CPOIN, 188, BOMH-L, CPSK, 60Hz) SG NR FFI TDD 7-76 5-96 1984 AAD SG NR (CP-CPOIN, 188, 190MH-L, CPSK, 60Hz) SG NR FFI TDD 7-77 5-96 1984 AAD SG NR (CP-CPOIN, 50%, R88, 20MH-L, CPSK, 60Hz) SG NR FFI TDD 7-78 5-96 1984 AAD SG NR (CP-CPOIN, 50%, R8, 20MH-L, CPSK, 60Hz) SG NR FFI TDD 8-34 5-96 1984 AAD SG NR (CP-CPOIN, 50%, R8, 20MH-L, CPSK, 60Hz) SG NR FFI TDD 8-34 5-96 1985 AAD SG NR (CP-CPOIN, 50%, R8, 20MH-L, CPSK, 60Hz) SG NR FFI TDD 8-34 5-96 1985 AAD SG NR (CP-CPOIN, 100%, R8, 10MH-L, CPSK, 60Hz) SG NR FFI TDD 8-34 5-96 1985 AAD SG NR (CP-CPOIN, 100%, R8, 10MH-L, CPSK, 60Hz) SG NR FFI TDD 8-34 5-96 1985 AAD SG NR (CP-CPOIN, 100%, R8, 12MH-L, CPSK, 60Hz) SG NR FFI TDD 8-35 5-96 1985 AAD SG NR (CP-CPOIN, 100%, R8, 20MH-L, CPSK, 60Hz) SG NR FFI TDD 8-35 5-96 1985 AAD SG NR (CP-CPOIN, 100%, R8, 20MH-L, CPSK, 60Hz) SG NR FFI TDD 8-35 5-96 1985 AAD SG NR (CP-CPOIN, 100%, R8, 20MH-L, CPSK, 60Hz) SG NR FFI TDD 8-35 5-96 1985 AAD SG NR (CP-CPOIN, 100%, R8, 20MH-L, CPSK, 60Hz) SG NR FFI TDD 8-36 5-96 1986 AAD SG NR (CP-CPOIN, 100%, R8, 30MH-L, CPSK, 60Hz) SG NR FFI TDD 8-36 5-96 1986 AAD SG NR (CP-CPOIN, 100%, R8, 30MH-L, CPSK, 60Hz) SG NR FFI TDD 8-34 5-96 1986 AAD SG NR (CP-CPOIN, 100%, R8, 30MH-L, CPSK, 60Hz) SG NR FFI TDD 8-34 5-96 1986 AAD SG NR (CP-CPOIN, 100%, R8, 30MH-L, CPSK, 60Hz) SG NR FFI TDD 8-34 5-96 1986 AAD SG NR (CP-CPOIN, 100%, R8, 30MH-L, CPSK, 60Hz) SG NR FFI TDD 8-34 5-96 1986 AAD SG NR (CP-CPOIN, 100%, R8, 30MH-L, CPSK, 60Hz) SG NR FFI TDD 8-34 5-96 1986 AAD SG NR (CP-CPOIN, 100%, R8, 30MH-L, CPSK, 60Hz) SG NR FFI TDD 8-34 5-96 1986 AAD SG NR (CP-CPOIN, 100%, R8, 30MH-L, CPSK, 60Hz) SG NR FFI TDD 8-36 5-96 1986 AAD SG NR (CP-CPOIN, 100%, R8, 100MH-L, CPSK, 60Hz) SG NR FFI TDD 8-36 5-96 1986 AAD SG NR (CP-CPOIN, 1						
1989 AAD SO NR (CP-OFOM, 1 RB, 09MHz, OPSK, 60MHz) SG NR FFRI TOD 7,67 19.56		_				
1984 AAD SO NR (CP-OFOM, 198, 1904Mz, OPSK, 691Hz)		_				
1984 AAD SO NR (CP-OFON, 50% RB, 15MHz, CPSK, 60MHz)						
19846 AAD SO NR (CP-OFON, 59% RB, 20MHz, OPSK, 60Hz)						
10856 AAD 5G NR (CP-OPEM, 50% RB, 30MHz, OPSK, 60Hz)						
10855 AAD 5G NR (CP-OPEN, 100% RB, 10MHz, OPSK, 60MHz)		_				
10855 AAD SG NR (CP-OFDM, 100% RB, 15MHz, OPSK, 60MHz)		_				
10856 AAD SG NR (CP-CPEM, 100% RB, 20MHz, CPSK, 80MHz)		-				
1985 AAD SG NR (CP-OFM, 100% RB, 25MHz, OPSK, 60NHz) SG NR FRI TDD 8.35 9.96 1989 AAD SG NR (CP-OFM, 100% RB, 40MHz, OPSK, 60NHz) SG NR FRI TDD 8.36 4.98 1989 AAD SG NR (CP-OFDM, 100% RB, 40MHz, OPSK, 60NHz) SG NR FRI TDD 8.34 4.98 1989 AAD SG NR (CP-OFDM, 100% RB, 50MHz, OPSK, 60NHz) SG NR FRI TDD 8.41 4.98 1988 AAD SG NR (CP-OFDM, 100% RB, 50MHz, OPSK, 60NHz) SG NR FRI TDD 8.40 4.98 1988 AAD SG NR (CP-OFDM, 100% RB, 50MHz, OPSK, 60NHz) SG NR FRI TDD 8.41 4.98 1988 AAD SG NR (CP-OFDM, 100% RB, 50MHz, OPSK, 60NHz) SG NR FRI TDD 8.41 4.98 1988 AAD SG NR (CP-OFDM, 100% RB, 50MHz, OPSK, 60NHz) SG NR FRI TDD 8.41 4.99 1988 AAD SG NR (CP-OFDM, 100% RB, 50MHz, OPSK, 60NHz) SG NR FRI TDD 8.41 4.99 1988 AAD SG NR (CP-OFDM, 100% RB, 100MHz, OPSK, 60NHz) SG NR FRI TDD 5.88 4.98 1988 AAD SG NR (CPF-SOFDM, 100% RB, 100MHz, OPSK, 30NHz) SG NR FRI TDD 5.88 4.98 1988 AAD SG NR (CPF-SOFDM, 100% RB, 100MHz, OPSK, 30NHz) SG NR FRI TDD 5.78 4.98 1987 AAE SG NR (CPF-SOFDM, 100% RB, 100MHz, OPSK, 120NHz) SG NR FRI TDD 5.78 4.98 1987 AAE SG NR (CPF-SOFDM, 100% RB, 100MHz, OPSK, 120NHz) SG NR FRI TDD 5.78 4.98 1987 AAE SG NR (CPF-SOFDM, 100% RB, 100MHz, OPSK, 120NHz) SG NR FRI TDD 5.78 4.98						
10859 AAD GG NR (CP-OFDM, 100%-RB, 30MHz, OPSK, 60MHz) 5G NR FRI TDD 6.36 ±36 10860 AAD 5G NR (CP-OFDM, 100%-RB, 40MHz, OPSK, 60MHz) 5G NR FRI TDD 8.41 ±36 10861 AAD 5G NR (CP-OFDM, 100%-RB, 50MHz, OPSK, 60MHz) 5G NR FRI TDD 8.41 ±36 10861 AAD 5G NR (CP-OFDM, 100%-RB, 50MHz, OPSK, 60MHz) 5G NR FRI TDD 8.41 ±36 10861 AAD 5G NR (CP-OFDM, 100%-RB, 50MHz, OPSK, 60MHz) 5G NR FRI TDD 8.41 ±36 10862 AAD 5G NR (CP-OFDM, 100%-RB, 50MHz, OPSK, 60MHz) 5G NR FRI TDD 8.41 ±36 10864 AAD 5G NR (CP-OFDM, 100%-RB, 50MHz, OPSK, 60MHz) 5G NR FRI TDD 8.41 ±36 10865 AAD 5G NR (CP-OFDM, 100%-RB, 50MHz, OPSK, 60MHz) 5G NR FRI TDD 8.41 ±36 10865 AAD 5G NR (CP-OFDM, 100%-RB, 50MHz, OPSK, 50MHz) 5G NR FRI TDD 8.41 ±36 10865 AAD 5G NR (CPF-OFDM, 100%-RB, 100MHz, OPSK, 50MHz) 5G NR FRI TDD 8.41 ±36 10866 AAD 5G NR (CPF-OFDM, 100%-RB, 100MHz, OPSK, 50MHz) 5G NR FRI TDD 5.68 ±36 10869 AAD 5G NR (CPF-OFDM, 100%-RB, 100MHz, OPSK, 30MHz) 5G NR FRI TDD 5.68 ±36 10869 AAE 5G NR (CPF-OFDM, 100%-RB, 100MHz, OPSK, 120MHz) 5G NR FRI TDD 5.75 ±36 10872 AAE 5G NR (CPF-OFDM, 100%-RB, 100MHz, OPSK, 120MHz) 5G NR FRI TDD 5.76 ±36 10872 AAE 5G NR (CPF-oFDM, 100%-RB, 100MHz, 160AM, 120MHz) 5G NR FRI TDD 5.76 ±36 10872 AAE 5G NR (CPF-oFDM, 100%-RB, 100MHz, 160AM, 120MHz) 5G NR FRI TDD 5.76 ±36 10873 AAE 5G NR (CPF-oFDM, 100%-RB, 100MHz, 60AM, 120MHz) 5G NR FRI TDD 5.76 ±36 10873 AAE 5G NR (CPF-oFDM, 100%-RB, 100MHz, 60AM, 120MHz) 5G NR FRI TDD 5.76 ±36 10873 AAE 5G NR (CPF-oFDM, 100%-RB, 100MHz, 60AM, 120MHz) 5G NR FRI TDD 5.77 ±36 10873 AAE 5G NR (CPF-OFDM, 100%-RB, 100MHz, 60AM, 120MHz) 5G NR FRI TDD 5.77 ±36 10874 AAE 5G NR (CPF-OFDM, 100%-RB, 100MHz, 60AM, 120MHz) 5G NR FRI TDD 5.77 ±36 10876 AAE 5G NR (CPF-OFDM, 100%-RB, 100MHz, 60AM, 120MHz) 5G NR FRI TDD 5.87 ±36 10876 AAE 5G NR (CPF-O		-				
10859 AAD GG NR (CP-OFDM, 100% RB, 40MHz, OPSK, 60MHz)						
10860 AAD SG NR (CP-OFDM, 100% RB, 50 MHz, CPSK, 60 Hz) SG NR FR1 TDD 8.44 ±9.6 10861 AAD SG NR (CP-OFDM, 100% RB, 50 MHz, CPSK, 60 Hz) SG NR FR1 TDD 8.47 ±9.6 10863 AAD SG NR (CP-OFDM, 100% RB, 50 MHz, CPSK, 60 Hz) SG NR FR1 TDD 8.37 ±9.6 10864 AAD SG NR (CP-OFDM, 100% RB, 50 MHz, CPSK, 60 Hz) SG NR FR1 TDD 8.37 ±9.6 10865 AAD SG NR (CP-OFDM, 100% RB, 50 MHz, CPSK, 60 Hz) SG NR FR1 TDD 8.37 ±9.6 10866 AAD SG NR (CP-OFDM, 100% RB, 100 MHz, CPSK, 50 Hz) SG NR FR1 TDD 5.88 ±9.6 10866 AAD SG NR (CP-OFDM, 100% RB, 100 MHz, CPSK, 30 Hz) SG NR FR1 TDD 5.88 ±9.8 10866 AAD SG NR (CP-OFDM, 100% RB, 100 MHz, CPSK, 30 Hz) SG NR FR1 TDD 5.89 ±9.6 10869 AAD SG NR (CPT-S-OFDM, 100% RB, 100 MHz, CPSK, 120 Hz) SG NR FR1 TDD 5.89 ±9.6 10870 AAE SG NR (CPT-S-OFDM, 100% RB, 100 MHz, CPSK, 120 Hz) SG NR FR2 TDD 5.75 ±9.6 10870 AAE SG NR (CPT-S-OFDM, 100% RB, 100 MHz, 160 AM, 120 Hz) SG NR FR2 TDD 5.75 ±9.6 10872 AAE SG NR (CPT-S-OFDM, 100% RB, 100 MHz, 160 AM, 120 Hz) SG NR FR2 TDD 5.75 ±9.6 10872 AAE SG NR (CPT-S-OFDM, 100% RB, 100 MHz, 160 AM, 120 Hz) SG NR FR2 TDD 5.75 ±9.6 10872 AAE SG NR (CPT-S-OFDM, 100% RB, 100 MHz, 160 AM, 120 Hz) SG NR FR2 TDD 5.75 ±9.6 10874 AAE SG NR (CPT-S-OFDM, 108 R, 100 MHz, 160 AM, 120 Hz) SG NR FR2 TDD 5.75 ±9.6 10874 AAE SG NR (CPT-S-OFDM, 108 R, 100 MHz, 160 AM, 120 Hz) SG NR FR2 TDD 5.75 ±9.6 10874 AAE SG NR (CPT-SOFDM, 100 MHz, 160 AM, 120 Hz) SG NR FR2 TDD 5.75 ±9.6 10874 AAE SG NR (CPT-SOFDM, 100 MHz, 160 AM, 120 Hz) SG NR FR2 TDD 5.75 ±9.6 10875 AAE SG NR (CPT-SOFDM, 108 R, 100 MHz, 104 AM, 120 Hz) SG NR FR2 TDD 5.75 ±9.6 10875 AAE SG NR (CPT-SOFDM, 108 R, 100 MHz, 104 AM, 120 Hz) SG NR FR2 TDD 5.75 ±9.6 10876 AAE SG NR (CPT-SOFDM, 108 R, 100 MHz, 104 AM, 120 Hz) SG NR FR2 TDD 5.75 ±9.6 10876 AAE SG NR (CPT-SOFDM, 108 R, 100 MHz, 104 AM,						
10861 AAD GO NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 MHz) SG NR FR1 TDD 8.41 ±9.6 10863 AAD SG NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 MHz) SG NR FR1 TDD 8.41 ±9.6 10865 AAD SG NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 MHz) SG NR FR1 TDD 8.41 ±9.6 10865 AAD SG NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 MHz) SG NR FR1 TDD 8.41 ±9.6 10865 AAD SG NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 MHz) SG NR FR1 TDD 5.88 ±9.6 10868 AAD SG NR (CP-S-OFDM, 18 R) 100 MHz, QPSK, 30 MHz) SG NR FR1 TDD 5.89 ±9.6 10868 AAD SG NR (CPT-S-OFDM, 18 R) 100 MHz, QPSK, 30 MHz) SG NR FR1 TDD 5.89 ±9.6 10869 AAE SG NR (CPT-S-OFDM, 18 R) 100 MHz, QPSK, 30 MHz) SG NR FR2 TDD 5.75 ±9.8 10870 AAE SG NR (CPT-S-OFDM, 18 R) 100 MHz, QPSK, 120 MHz) SG NR FR2 TDD 5.75 ±9.8 10870 AAE SG NR (CPT-S-OFDM, 18 R) 100 MHz, QPSK, 120 MHz) SG NR FR2 TDD 5.75 ±9.8 10872 AAE SG NR (CPT-S-OFDM, 18 R) 100 MHz, QPSK, 120 MHz) SG NR FR2 TDD 5.75 ±9.8 10873 AAE SG NR (CPT-S-OFDM, 18 R) 100 MHz, QPSK, 120 MHz) SG NR FR2 TDD 5.75 ±9.8 10873 AAE SG NR (CPT-S-OFDM, 100% RB, 100 MHz, QPSK, 120 MHz) SG NR FR2 TDD 5.75 ±9.8 10873 AAE SG NR (CPT-S-OFDM, 100% RB, 100 MHz, ACDAM, 120 MHz) SG NR FR2 TDD 5.75 ±9.8 10873 AAE SG NR (CPT-S-OFDM, 100% RB, 100 MHz, ACDAM, 120 MHz) SG NR FR2 TDD 6.61 ±9.8 10873 AAE SG NR (CPT-S-OFDM, 100% RB, 100 MHz, ACDAM, 120 MHz) SG NR FR2 TDD 6.61 ±9.8 10873 AAE SG NR (CPT-OFDM, 100% RB, 100 MHz, ACDAM, 120 MHz) SG NR FR2 TDD 6.77 5.96 10873 AAE SG NR (CPT-OFDM, 100% RB, 100 MHz, ACDAM, 120 MHz) SG NR FR2 TDD 7.78 ±9.6 10873 AAE SG NR (CPT-OFDM, 100% RB, 100 MHz, ACDAM, 120 MHz) SG NR FR2 TDD 7.78 ±9.6 10873 AAE SG NR (CPT-OFDM, 100% RB, 100 MHz, ACDAM, 120 MHz) SG NR FR2 TDD 7.78 ±9.6 10873 AAE SG NR (CPT-OFDM, 100% RB, 100 MHz, ACDAM, 120 MHz) SG NR FR2 TDD 7.78 ±9.6 10873 AAE SG NR (CPT-OFDM, 100%				-		
10884 AAD SG NR (CP-OFDM, 100% RB, 90 MHz, CPSK, 60 MHz) SG NR FR1 TDD 8.41 ±9.6 10864 AAD SG NR (CP-OFDM, 100% RB, 90 MHz, CPSK, 60 MHz) SG NR FR1 TDD 8.47 ±9.6 10865 AAD SG NR (CP-OFDM, 100% RB, 100 MHz, CPSK, 60 MHz) SG NR FR1 TDD 5.88 ±9.6 10866 AAD SG NR (CPT-SOFDM, 100% RB, 100 MHz, CPSK, 30 MHz) SG NR FR1 TDD 5.88 ±9.6 10866 AAD SG NR (CPT-SOFDM, 100% RB, 100 MHz, CPSK, 30 MHz) SG NR FR1 TDD 5.88 ±9.6 10869 AAD SG NR (CPT-SOFDM, 100% RB, 100 MHz, CPSK, 30 MHz) SG NR FR1 TDD 5.89 ±9.6 10869 AAD SG NR (CPT-SOFDM, 100% RB, 100 MHz, CPSK, 120 MHz) SG NR FR2 TDD 5.75 ±9.6 10870 AAE SG NR (CPT-SOFDM, 100% RB, 100 MHz, CPSK, 120 MHz) SG NR FR2 TDD 5.75 ±9.6 10872 AAE SG NR (CPT-SOFDM, 100% RB, 100 MHz, 160 AM, 120 MHz) SG NR FR2 TDD 5.75 ±9.6 10872 AAE SG NR (CPT-SOFDM, 100% RB, 100 MHz, 160 AM, 120 MHz) SG NR FR2 TDD 5.75 ±9.6 10872 AAE SG NR (CPT-SOFDM, 100% RB, 100 MHz, 160 AM, 120 MHz) SG NR FR2 TDD 5.75 ±9.6 10873 AAE SG NR (CPT-SOFDM, 18B, 100 MHz, 640 AM, 120 MHz) SG NR FR2 TDD 6.52 ±9.6 10874 AAE SG NR (CPT-SOFDM, 18B, 100 MHz, 640 AM, 120 MHz) SG NR FR2 TDD 6.65 ±9.6 10875 AAE SG NR (CPT-SOFDM, 18B, 100 MHz, 640 AM, 120 MHz) SG NR FR2 TDD 6.65 ±9.6 10876 AAE SG NR (CPT-SOFDM, 18B, 100 MHz, 640 AM, 120 MHz) SG NR FR2 TDD 6.65 ±9.6 10876 AAE SG NR (CPT-SOFDM, 100% RB, 100 MHz, 640 AM, 120 MHz) SG NR FR2 TDD 7.773 ±9.6 10876 AAE SG NR (CPT-SOFDM, 100% RB, 100 MHz, 100 AM, 120 MHz) SG NR FR2 TDD 8.39 ±9.6 10876 AAE SG NR (CPT-SOFDM, 100% RB, 100 MHz, 100 AM, 120 MHz) SG NR FR2 TDD 8.39 ±9.6 10876 AAE SG NR (CPT-SOFDM, 100% RB, 100 MHz, 100 AM, 120 MHz) SG NR FR2 TDD 8.41 ±9.6 10879 AAE SG NR (CPT-SOFDM, 100% RB, 50 MHz, 20 MHz, 120 MHz) SG NR FR2 TDD 8.41 ±9.6 10879 AAE SG NR (CPT-SOFDM, 100% RB, 50 MHz, 20 MHz, 120 MHz) SG NR FR2 TDD 5.75 ±9.6 10889 AAE						
10868 AAD SG NR (CP-CPEM, 100% RB, 100MHz, CPSK, 60kHz) SG NR FRI TDD 8.41 9.6 10866 AAD SG NR (CP-CPEM, 100% RB, 100MHz, CPSK, 80kHz) SG NR FRI TDD 5.68 9.6 10866 AAD SG NR (CP-CPEM, 100% RB, 100MHz, CPSK, 30kHz) SG NR FRI TDD 5.68 9.6 10868 AAD SG NR (CPT-S-CPEM, 100% RB, 100MHz, CPSK, 30kHz) SG NR FRI TDD 5.69 9.6 10860 AAE SG NR (CPT-S-CPEM, 100% RB, 100MHz, CPSK, 120kHz) SG NR FRI TDD 5.59 9.6 10870 AAE SG NR (CPT-S-CPEM, 100% RB, 100MHz, CPSK, 120kHz) SG NR FRI TDD 5.575 9.6 10870 AAE SG NR (CPT-S-CPEM, 100% RB, 100MHz, CPSK, 120kHz) SG NR FRI TDD 5.58 9.9 10870 AAE SG NR (CPT-S-CPEM, 100% RB, 100MHz, CPSK, 120kHz) SG NR FRI TDD 5.575 9.6 10872 AAE SG NR (CPT-S-CPEM, 100% RB, 100MHz, 120AHz) SG NR FRI TDD 5.575 9.6 10873 AAE SG NR (CPT-S-CPEM, 100% RB, 100MHz, 120AHz) SG NR FRI TDD 6.52 9.8 10874 AAE SG NR (CPT-S-CPEM, 100% RB, 100MHz, 120AHz) SG NR FRI TDD 6.61 9.6 10874 AAE SG NR (CPT-S-CPEM, 100% RB, 100MHz, 120AHz) SG NR FRI TDD 6.65 9.6 10875 AAE SG NR (CPT-CPEM, 100% RB, 100MHz, 120AHz) SG NR FRI TDD 6.65 9.6 10875 AAE SG NR (CP-CPEM, 100% RB, 100MHz, 120AHz) SG NR FRI TDD 7.78 9.6 10875 AAE SG NR (CP-CPEM, 100% RB, 100MHz, 120AHz) SG NR FRI TDD 7.78 9.6 10875 AAE SG NR (CP-CPEM, 100% RB, 100MHz, 120AHz) SG NR FRI TDD 7.78 9.6 10875 AAE SG NR (CP-CPEM, 100% RB, 100MHz, 120AHz) SG NR FRI TDD 7.9 9.6 10878 AAE SG NR (CP-CPEM, 100% RB, 100MHz, 120AHz) SG NR FRI TDD 7.9 9.6 10878 AAE SG NR (CP-CPEM, 100% RB, 100MHz, 64QAM, 120AHz) SG NR FRI TDD 7.9 9.6 10880 AAE SG NR (CP-CPEM, 100% RB, 100MHz, 64QAM, 120AHz) SG NR FRI TDD 8.12 9.6 10881 AAE SG NR (CP-CPEM, 100% RB, 100MHz, 64QAM, 120AHz) SG NR FRI TDD 5.6 9.6 9.6 10882 AAE SG NR (CP-CPEM, 100% RB, 100MHz, 64QAM, 120AHz) SG NR FRI TDD 5.6 9.6 9.6 10882 AAE SG NR (CP-S-CPEM, 188, 100MH		_				
1985 AAD SG NR (CP-CPGM, 100% RB, 100 MHz, QPSK, 30 Hz) 5G NR FRI TDD 5.88 ±9.6 1986 AAD 5G NR (CP-CPGM, 100% RB, 100 MHz, QPSK, 30 Hz) 5G NR FRI TDD 5.89 ±9.6 1988 AAE 5G NR (CPT-S-CPGM, 118, 100 MHz, QPSK, 120 Hz) 5G NR FRI TDD 5.75 ±9.6 1988 AAE 5G NR (CPT-S-CPGM, 178, 100 MHz, QPSK, 120 Hz) 5G NR FRI TDD 5.75 ±9.6 1987 AAE 5G NR (CPT-S-CPGM, 178, 100 MHz, QPSK, 120 Hz) 5G NR FRI TDD 5.75 ±9.6 1987 AAE 5G NR (CPT-S-CPGM, 178, 100 MHz, 160 AM, 120 Hz) 5G NR FRI TDD 5.75 ±9.6 1987 AAE 5G NR (CPT-S-CPGM, 178, 100 MHz, 160 AM, 120 Hz) 5G NR FRI TDD 5.75 ±9.6 1987 AAE 5G NR (CPT-S-CPGM, 178, 100 MHz, 64 CAM, 120 Hz) 5G NR FRI TDD 6.65 ±9.6 1987 AAE 5G NR (CPT-S-CPGM, 178, 100 MHz, 64 CAM, 120 Hz) 5G NR FRI TDD 6.65 ±9.6 1987 AAE 5G NR (CPT-S-CPGM, 178, 100 MHz, 64 CAM, 120 Hz) 5G NR FRI TDD 6.65 ±9.6 1987 AAE 5G NR (CPT-S-CPGM, 178, 100 MHz, 64 CAM, 120 Hz) 5G NR FRI TDD 6.65 ±9.6 1987 AAE 5G NR (CPT-S-CPGM, 178, 100 MHz, 64 CAM, 120 Hz) 5G NR FRI TDD 6.65 ±9.6 1987 AAE 5G NR (CPT-S-CPGM, 178, 100 MHz, 64 CAM, 120 Hz) 5G NR FRI TDD 6.65 ±9.6 1987 AAE 5G NR (CPT-S-CPGM, 178, 100 MHz, 64 CAM, 120 Hz) 5G NR FRI TDD 6.65 ±9.6 1987 AAE 5G NR (CPT-S-CPGM, 178, 100 MHz, 64 CAM, 120 Hz) 5G NR FRI TDD 7.78 ±9.6 1987 AAE 5G NR (CPT-S-CPGM, 178, 100 MHz, 64 CAM, 120 Hz) 5G NR FRI TDD 7.75 ±9.6 1988 AAE 5G NR (CPT-S-CPGM, 178, 100 MHz, 64 CAM, 120 Hz) 5G NR FRI TDD 7.95 ±9.6 1988 AAE 5G NR (CPT-S-CPGM, 178, 100 MHz, 64 CAM, 120 Hz) 5G NR FRI TDD 7.95 ±9.6 1988 AAE 5G NR (CPT-S-CPGM, 178, 100 MHz, 64 CAM, 120 Hz) 5G NR FRI TDD 7.95 ±9.6 1988 AAE 5G NR (CPT-S-CPGM, 178, 100 MHz, 64 CAM, 120 Hz) 5G NR FRI TDD 5.75 ±9.6 1988 AAE 5G NR (CPT-S-CPGM, 178, 100 MHz, 64 CAM, 120 Hz) 5G NR FRI TDD 5.75 ±9.6 1988 AAE 5G NR (CPT-S-CPGM, 178, 100 MHz, 64 CAM, 120 Hz) 5G NR FRI TDD		_				
10866 AAD 5G NR (DFTs-OFDM, 1 RB, 100MHz, QPSK, 30kHz)		_				
10869 AAD 5G NR (DFTs-OFDM, 109% RB, 100MHz, QPSK, 120MHz) 5G NR FRI TDD 5.89 9.56 10897 AAE 5G NR (DFTs-OFDM, 109% RB, 100MHz, QPSK, 120MHz) 5G NR FRZ TDD 5.75 9.66 10871 AAE 5G NR (DFTs-OFDM, 109% RB, 100MHz, QPSK, 120MHz) 5G NR FRZ TDD 5.75 9.66 10871 AAE 5G NR (DFTs-OFDM, 109% RB, 100MHz, 160AM, 120MHz) 5G NR FRZ TDD 5.75 9.68 10972 AAE 5G NR (DFTs-OFDM, 160% RB, 100MHz, 160AM, 120MHz) 5G NR FRZ TDD 6.52 9.68 10873 AAE 5G NR (DFTs-OFDM, 160% RB, 100MHz, 160AM, 120MHz) 5G NR FRZ TDD 6.61 9.69 10874 AAE 5G NR (DFTs-OFDM, 160% RB, 100MHz, 640AM, 120MHz) 5G NR FRZ TDD 6.65 9.66 10874 AAE 5G NR (DFTs-OFDM, 160% NB, 100MHz, 640AM, 120MHz) 5G NR FRZ TDD 7.78 9.68 10876 AAE 5G NR (DFTs-OFDM, 160% NB, 100MHz, 640AM, 120MHz) 5G NR FRZ TDD 7.78 9.69 10876 AAE 5G NR (DFO-OFDM, 160MHz, 160AM, 120MHz) 5G NR FRZ TDD 7.78 9.69 10876 AAE 5G NR (DFO-OFDM, 160MHz, 160AM, 120MHz) 5G NR FRZ TDD 7.78 9.69 10878 AAE 5G NR (DFO-OFDM, 160MHz, 160AM, 120MHz) 5G NR FRZ TDD 7.79 9.60 10878 AAE 5G NR (DFO-OFDM, 160MHz, 160AM, 120MHz) 5G NR FRZ TDD 7.79 9.60 10878 AAE 5G NR (DFO-OFDM, 160MHz, 160AM, 120MHz) 5G NR FRZ TDD 8.41 9.60 10879 AAE 5G NR (DFO-OFDM, 160MHz, 160AM, 120MHz) 5G NR FRZ TDD 8.41 9.60 10879 AAE 5G NR (DFO-OFDM, 160% NB, 100MHz, 160AM, 120MHz) 5G NR FRZ TDD 8.41 9.60 10879 AAE 5G NR (DFO-OFDM, 160% NB, 100MHz, 160AM, 120MHz) 5G NR FRZ TDD 8.41 9.60 10879 AAE 5G NR (DFO-OFDM, 160% NB, 100MHz, 160AM, 120MHz) 5G NR FRZ TDD 8.75 9.60 10880 AAE 5G NR (DFO-OFDM, 160% NB, 50MHz, 160AM, 120MHz) 5G NR FRZ TDD 5.75 9.96 10880 AAE 5G NR (DFO-OFDM, 160% NB, 50MHz, 160AM, 120MHz) 5G NR FRZ TDD 5.75 9.96 10880 AAE 5G NR (DFO-OFDM, 160% NB, 50MHz, 160AM, 120MHz) 5G NR FRZ TDD 5.75 9.96 10880 AAE 5G NR (DFT-S-OFDM, 160% NB, 50MHz, 160AM, 120MHz) 5G NR FRZ TDD 6.57 9.96 1088			, , , , , , , , , , , , , , , , , , , ,			
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10889 AAE 5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 8.02 ±9.6 10890 AAE 5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz) 5G NR FR2 TDD 8.40 ±9.6 10891 AAE 5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz) 5G NR FR2 TDD 8.13 ±9.6 10892 AAE 5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz) 5G NR FR2 TDD 8.41 ±9.6 10897 AAC 5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.66 ±9.6 10898 AAB 5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.67 ±9.6 10899 AAB 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.67 ±9.6 10900 AAB 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10901 AAB 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10902 AAB 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 <td< td=""><td>10888</td><td>AAE</td><td></td><td></td><td></td><td></td></td<>	10888	AAE				
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10899 AAB 5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.67 ±9.6 10900 AAB 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10901 AAB 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10902 AAB 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10903 AAB 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10904 AAB 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10905 AAB 5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10906 AAB 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10907 AAC 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10908 AAB 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.78 ±9.6 10909 AAB 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR	10898	AAB				
10900 AAB 5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10901 AAB 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10902 AAB 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10903 AAB 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10904 AAB 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10905 AAB 5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10906 AAB 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10907 AAC 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.78 ±9.6 10908 AAB 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.93 ±9.6 10909 AAB 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.93 ±9.6 10909 AAB 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR	10899	AAB				
10901 AAB 5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10902 AAB 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10903 AAB 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10904 AAB 5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10905 AAB 5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10906 AAB 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10907 AAC 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.78 ±9.6 10908 AAB 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.93 ±9.6 10909 AAB 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.93 ±9.6 10909 AAB 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.96 ±9.6	10900	AAB				
10902 AAB 5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10903 AAB 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10904 AAB 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10905 AAB 5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10906 AAB 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10907 AAC 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.78 ±9.6 10908 AAB 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.93 ±9.6 10909 AAB 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.93 ±9.6 10909 AAB 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.96 ±9.6	10901	AAB				
10903 AAB 5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10904 AAB 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10905 AAB 5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10906 AAB 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10907 AAC 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.78 ±9.6 10908 AAB 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.93 ±9.6 10909 AAB 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.96 ±9.6	10902	AAB	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)			
10904 AAB 5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10905 AAB 5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10906 AAB 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10907 AAC 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.78 ±9.6 10908 AAB 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.93 ±9.6 10909 AAB 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.96 ±9.6	10903	AAB	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)			
10905 AAB 5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10906 AAB 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10907 AAC 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.78 ±9.6 10908 AAB 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.93 ±9.6 10909 AAB 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.96 ±9.6 10910 AAB 5G NR GPT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.96 ±9.6	10904	AAB	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)			
10906 AAB 5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.68 ±9.6 10907 AAC 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.78 ±9.6 10908 AAB 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.93 ±9.6 10909 AAB 5G NR DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.96 ±9.6 10910 AAB 5G NR DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.96 ±9.6	10905	AAB	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)			
10907 AAC 5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.78 ±9.6 10908 AAB 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.93 ±9.6 10909 AAB 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.96 ±9.6 10919 AAB 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.96 ±9.6	10906	AAB	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)			
10908 AAB 5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.93 ±9.6 10909 AAB 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.96 ±9.6 10010 AAB 5G NR GRIT TDD 5.96 ±9.6	10907	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)			
10909 AAB 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz) 5G NR FR1 TDD 5.96 ±9.6	10908	AAB				
10010 AAR SCAIR (PET- OFFIN 50% PR COMUL OFFIN COMUL)	10909	AAB				
	10910	AAB		5G NR FR1 TDD	5.83	±9.6

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October 26, 2023

UID	Rev	Communication System Name	Group	PAR (dB)	$Unc^{E} k = 2$
10911	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	±9.6
10912	AAB	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10913	AAB	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10914	AAB	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	±9.6
10915	AAB	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	±9.6
10916	AAB	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
10917	AAB	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10918	AAC	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9.6
10919	AAB	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9.6
10920	AAB	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.6
10921	AAB	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10922	AAB	5G NR (DFT-s-OFDM, 100% RB, 25MHz, QPSK, 30kHz)	5G NR FR1 TDD 5G NR FR1 TDD	5.82 5.84	±9.6 ±9.6
10923	AAB	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz) 5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10925	AAB	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	±9.6
10926	AAB	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.6
10927	AAB	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	±9.6
10928	AAC	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10929	AAC	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10930	AAC	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.6
10931	AAC	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10932	AAC	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10933	AAC	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10934	AAC	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10935	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.6
10936	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	±9.6
10937	AAC	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz) 5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD 5G NR FR1 FDD	5.77 5.90	±9.6
10938	AAC	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	±9.6 ±9.6
10940	AAC	5G NR (DFT-s-OFDM, 50% RB, 25MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	±9.6
10941	AAC	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
10942	AAC	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
10943	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	±9.6
10944	AAC	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	±9.6
10945	AAC	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.6
10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6
10947	AAC	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
10948	AAC	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10949	AAC	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	±9.6
10950	AAC	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	±9.6
10951	AAA	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz) 5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD 5G NR FR1 FDD	5.92 8.25	±9.6 ±9.6
10953	AAA	5G NR DL (CP-OFDM, TM 3.1, 5MHz, 64-QAM, 15kHz)	5G NR FR1 FDD	8.15	±9.6
10954	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	±9.6
10955	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	±9.6
10956	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	±9.6
10957	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	±9.6
10958	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	±9.6
10959	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	±9.6
10960	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	±9.6
10961	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	±9.6
10962	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.40	±9.6
10963	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	±9.6
10964	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	±9.6
10965	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz) 5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD 5G NR FR1 TDD	9.37 9.55	±9.6
10966	AAB	5G NR DL (CP-OFDM, TM 3.1, 15MHz, 64-QAM, 30KHz)	5G NR FR1 TDD	9.55	±9.6 ±9.6
10968	AAB	5G NR DL (CP-OFDM, TM 3.1, 20MHz, 64-QAM, 30KHz)	5G NR FR1 TDD	9.42	±9.6
10972	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	11.59	±9.6
10973	AAB	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	±9.6
10974	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	±9.6
10978	AAA	ULLA BDR	ULLA	1.16	±9.6
10979	AAA	ULLA HDR4	ULLA	8.58	±9.6
10980	AAA	ULLA HDR8	ULLA	10.32	±9.6
10981	AAA	ULLA HDRp4	ULLA	3.19	±9.6
10982	AAA	ULLA HDRp8	ULLA	3.43	±9.6

Certificate No: EX-3933_Oct23

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UID	Rev	Communication System Name	Group	PAR (dB)	$Unc^{E} k = 2$
10983	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.31	±9.6
10984	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.42	±9.6
10985	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.54	±9.6
10986	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.50	±9.6
10987	AAA	5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.53	±9.6
10988	AAA	5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.38	±9.6
10989	AAA	5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.33	±9.6
10990	AAA	5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.52	±9.6
11003	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	10.24	±9.6
11004	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	10.73	±9.6
11005	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.70	±9.6
11006	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.55	±9.6
11007	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.46	±9.6
11008	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.51	±9.6
11009	AAA	5G NR DL (CP-OFDM, TM 3.1, 25 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.76	±9.6
11010	AAA	5G NR DL (CP-OFDM, TM 3.1, 30 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.95	±9.6
11011	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.96	±9.6
11012	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.68	±9.6
11013	AAA	IEEE 802.11be (320 MHz, MCS1, 99pc duty cycle)	WLAN	8.47	±9.6
11014	AAA	IEEE 802.11be (320 MHz, MCS2, 99pc duty cycle)	WLAN	8.45	±9.6
11015	AAA	IEEE 802.11be (320 MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.6
11016	AAA	IEEE 802.11be (320 MHz, MCS4, 99pc duty cycle)	WLAN	8.44	±9.6
11017	AAA	IEEE 802.11be (320 MHz, MCS5, 99pc duty cycle)	WLAN	8.41	±9.6
11018	AAA	IEEE 802.11be (320 MHz, MCS6, 99pc duty cycle)	WLAN	8.40	±9.6
11019	AAA	IEEE 802.11be (320 MHz, MCS7, 99pc duty cycle)	WLAN	8.29	±9.6
11020	AAA	IEEE 802.11be (320 MHz, MCS8, 99pc duty cycle)	WLAN	8.27	±9.6
11021	AAA	IEEE 802.11be (320 MHz, MCS9, 99pc duty cycle)	WLAN	8.46	±9.6
11022	AAA	IEEE 802.11be (320 MHz, MCS10, 99pc duty cycle)	WLAN	8.36	±9.6
11023	AAA	IEEE 802.11be (320 MHz, MCS11, 99pc duty cycle)	WLAN	8.09	±9.6
11024	AAA	IEEE 802.11be (320 MHz, MCS12, 99pc duty cycle)	WLAN	8.42	±9.6
11025	AAA	IEEE 802.11be (320 MHz, MCS13, 99pc duty cycle)	WLAN	8.37	±9.6
11026	AAA	IEEE 802.11be (320 MHz, MCS0, 99pc duty cycle)	WLAN	8.39	±9.6

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

Certificate No: EX-3933_Oct23

APPENDIX B. – Dipole Calibration Data

TRF-RF-601(03)161101



Calibration Laboratory of

Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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Client Dt&C

Gyeonggi-do, Republic of Korea

Certificate No. D2450V2-726_Jul23

CALIBRAI	ION	CERT	IFICATE

Object D2450V2 - SN:726

Calibration procedure(s) QA CAL-05.v12

Calibration Procedure for SAR Validation Sources between 0.7-3 GHz

Calibration date: July 19, 2023

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID#	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP2	SN: 104778	30-Mar-23 (No. 217-03804/03805)	Mar-24
Power sensor NRP-Z91	SN: 103244	30-Mar-23 (No. 217-03804)	Mar-24
Power sensor NRP-Z91	SN: 103245	30-Mar-23 (No. 217-03805)	Mar-24
Reference 20 dB Attenuator	SN: BH9394 (20k)	30-Mar-23 (No. 217-03809)	Mar-24
Type-N mismatch combination	SN: 310982 / 06327	30-Mar-23 (No. 217-03810)	Mar-24
Reference Probe EX3DV4	SN: 7349	10-Jan-23 (No. EX3-7349_Jan23)	Jan-24
DAE4	SN: 601	19-Dec-22 (No. DAE4-601_Dec22)	Dec-23
Secondary Standards	ID#	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB39512475	30-Oct-14 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
Power sensor HP 8481A	SN: MY41093315	07-Oct-15 (in house check Oct-22)	In house check: Oct-24
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-22)	In house check: Oct-24
Network Analyzer Agilent E8358A	SN: US41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24
	Name	Function	Signature
Calibrated by:	Paulo Pina	Laboratory Technician	faction
Approved by:	Sven Kühn	Technical Manager	61

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: D2450V2-726_Jul23

Issued: July 19, 2023



Calibration Laboratory of

Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL tissue simulating liquid

ConvF sensitivity in TSL / NORM x,y,z N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

c) DASY System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end
 of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The source is mounted in a touch configuration below the center marking of the flat phantom.
- Return Loss: This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Certificate No: D2450V2-726_Jul23

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy , $dz = 5 mm$	
Frequency	2450 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.8 ± 6 %	1.85 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.5 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	52.7 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.29 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.8 W/kg ± 16.5 % (k=2)



Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	$54.4 \Omega + 4.2 j\Omega$
Return Loss	- 24.7 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.160 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
······································	SFEAG

Certificate No: D2450V2-726_Jul23



DASY5 Validation Report for Head TSL

Date: 19.07.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 726

Communication System: UID 0 - CW; Frequency: 2450 MHz

Medium parameters used: f = 2450 MHz; $\sigma = 1.85 \text{ S/m}$; $\varepsilon_r = 37.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

Probe: EX3DV4 - SN7349; ConvF(7.9, 7.9, 7.9) @ 2450 MHz; Calibrated: 10.01.2023

Sensor-Surface: 1.4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn601; Calibrated: 19.12.2022

Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001

DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 116.0 V/m; Power Drift = -0.08 dB

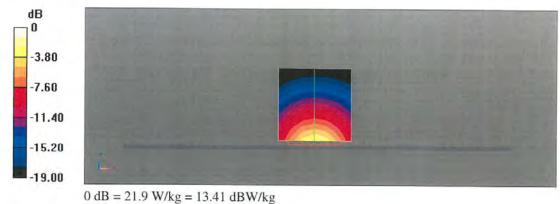
Peak SAR (extrapolated) = 26.2 W/kg

SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.29 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm

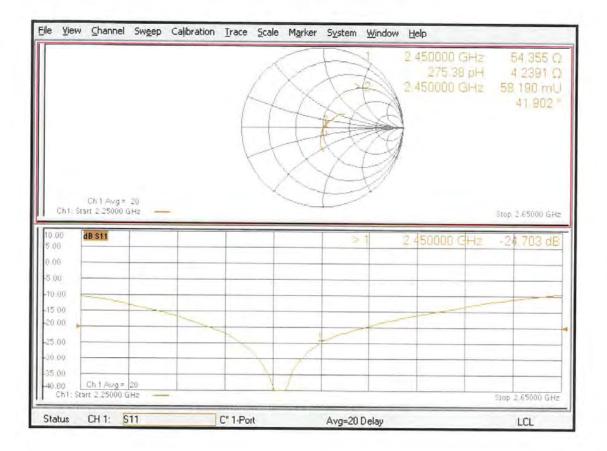
Ratio of SAR at M2 to SAR at M1 = 51.6%

Maximum value of SAR (measured) = 21.9 W/kg





Impedance Measurement Plot for Head TSL





Calibration Laboratory of

Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst S Service suisse d'étalonnage C Servizio svizzero di taratura

Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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Client Dt&C

Gyeonggi-do, Republic of Korea

Certificate No. D5GHzV2-1212_Nov23

CALIBRATION CERTIFICATE

Object D5GHzV2 - SN:1212

Calibration procedure(s) QA CAL-22.v7

Calibration Procedure for SAR Validation Sources between 3-10 GHz

Calibration date: November 23, 2023

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

04778 03244 03245 H9394 (20k) 10982 / 06327 503	30-Mar-23 (No. 217-03804/03805) 30-Mar-23 (No. 217-03804) 30-Mar-23 (No. 217-03805) 30-Mar-23 (No. 217-03809) 30-Mar-23 (No. 217-03810)	Mar-24 Mar-24 Mar-24 Mar-24 Mar-24
03245 H9394 (20k) 10982 / 06327 503	30-Mar-23 (No. 217-03805) 30-Mar-23 (No. 217-03809) 30-Mar-23 (No. 217-03810)	Mar-24 Mar-24
H9394 (20k) 10982 / 06327 503	30-Mar-23 (No. 217-03809) 30-Mar-23 (No. 217-03810)	Mar-24
10982 / 06327 503	30-Mar-23 (No. 217-03809) 30-Mar-23 (No. 217-03810)	
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44.	War and Company of the Company of the Company	
	07-Mar-23 (No. EX3-3503_Mar23)	Mar-24
01	03-Oct-23 (No. DAE4-601_Oct23)	Oct-24
	Check Date (in house)	Scheduled Check
B39512475	30-Oct-14 (in house check Oct-22)	In house check: Oct-24
S37292783		In house check: Oct-24
Y41093315		In house check: Oct-24
00972		In house check: Oct-24
\$41080477	31-Mar-14 (in house check Oct-22)	In house check: Oct-24
	Function	Signature
Pina	Laboratory Technician	Jan 5 les
(ühn	Technical Manager	
	, samual manager	5.6
	839512475 \$37292783 Y41093315 00972 \$41080477 Pina	B39512475 30-Oct-14 (in house check Oct-22) S37292783 07-Oct-15 (in house check Oct-22) IY41093315 07-Oct-15 (in house check Oct-22) S41080477 15-Jun-15 (in house check Oct-22) S41080477 31-Mar-14 (in house check Oct-22) Function Pina Laboratory Technician

Certificate No: D5GHzV2-1212_Nov23

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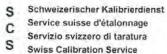
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Glossary:

TSL tissue simulating liquid

ConvF sensitivity in TSL / NORM x,y,z N/A not applicable or not measured

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

c) DASY System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The source is mounted in a touch configuration below the center marking of the flat phantom.
- Return Loss: This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

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Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V5.0	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4.0 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	5200 MHz ± 1 MHz 5300 MHz ± 1 MHz 5500 MHz ± 1 MHz 5600 MHz ± 1 MHz 5800 MHz ± 1 MHz	

Head TSL parameters at 5200 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	36.0	4.66 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	36.4 ± 6 %	4.53 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5200 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.76 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	77.7 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.22 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.3 W/kg ± 19.5 % (k=2)

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Head TSL parameters at 5300 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.9	4.76 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	36.4 ± 6 %	4.64 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5300 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.98 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	79.9 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.28 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.8 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5500 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.6	4.96 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	36.2 ± 6 %	4.83 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5500 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.30 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	83.1 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.36 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	23.7 W/kg ± 19.5 % (k=2)

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Head TSL parameters at 5600 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.5	5.07 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	36.1 ± 6 %	4.91 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5600 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.42 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	84.4 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.39 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.0 W/kg ± 19.5 % (k=2)

Head TSL parameters at 5800 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.3	5.27 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.7 ± 6 %	5.09 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL at 5800 MHz

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	7.88 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	78.8 W/kg ± 19.9 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.22 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	22.2 W/kg ± 19.5 % (k=2)

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL at 5200 MHz

Impedance, transformed to feed point	47.6 Ω - 2.5 jΩ
Return Loss	- 29.0 dB

Antenna Parameters with Head TSL at 5300 MHz

Impedance, transformed to feed point	$47.4 \Omega + 0.1 j\Omega$
Return Loss	- 31.5 dB

Antenna Parameters with Head TSL at 5500 MHz

Impedance, transformed to feed point	$47.3 \Omega + 2.9 j\Omega$
Return Loss	- 27.7 dB

Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	49.8 Ω + 3.7 jΩ
Return Loss	- 28.6 dB

Antenna Parameters with Head TSL at 5800 MHz

Impedance, transformed to feed point	53.0 Ω + 3.7 jΩ				
Return Loss	- 26.6 dB				

General Antenna Parameters and Design

Electrical Delay (one direction)	1.190 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG

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DASY5 Validation Report for Head TSL

Date: 23.11.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1212

Communication System: UID 0 - CW; Frequency: 5200 MHz, Frequency: 5300 MHz, Frequency: 5500

MHz, Frequency: 5600 MHz, Frequency: 5800 MHz

Medium parameters used: f = 5200 MHz; $\sigma = 4.53$ S/m; $\varepsilon_r = 36.4$; $\rho = 1000$ kg/m³ Medium parameters used: f = 5300 MHz; $\sigma = 4.64$ S/m; $\varepsilon_r = 36.4$; $\rho = 1000$ kg/m³

Medium parameters used: f = 5500 MHz; $\sigma = 4.83$ S/m; $\varepsilon_r = 36.2$; $\rho = 1000$ kg/m³ Medium parameters used: f = 5600 MHz; $\sigma = 4.91$ S/m; $\varepsilon_r = 36.1$; $\rho = 1000$ kg/m³

Medium parameters used: f = 5800 MHz; $\sigma = 5.09 \text{ S/m}$; $\varepsilon_r = 35.7$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN3503; ConvF(5.8, 5.8, 5.8) @ 5200 MHz, ConvF(5.49, 5.49, 5.49) @ 5300 MHz, ConvF(5.25, 5.25, 5.25) @ 5500 MHz, ConvF(5.1, 5.1, 5.1) @ 5600 MHz, ConvF(5.01, 5.01, 5.01) @ 5800 MHz; Calibrated: 07.03.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 03.10.2023
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5200 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 73.38 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 26.8 W/kg

SAR(1 g) = 7.76 W/kg; SAR(10 g) = 2.22 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 70.3%

Maximum value of SAR (measured) = 17.5 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5300 MHz/Zoom Scan.

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 73.37 V/m; Power Drift = 0.08 dB

Peak SAR (extrapolated) = 27.7 W/kg

SAR(1 g) = 7.98 W/kg; SAR(10 g) = 2.28 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 70.1%

Maximum value of SAR (measured) = 17.9 W/kg

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Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5500 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 73.24 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 31.0 W/kg

SAR(1 g) = 8.30 W/kg; SAR(10 g) = 2.36 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 67.4%

Maximum value of SAR (measured) = 19.0 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 74.65 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 30.6 W/kg

SAR(1 g) = 8.42 W/kg; SAR(10 g) = 2.39 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 68.7%

Maximum value of SAR (measured) = 19.3 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan,

dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 71.28 V/m; Power Drift = 0.09 dB

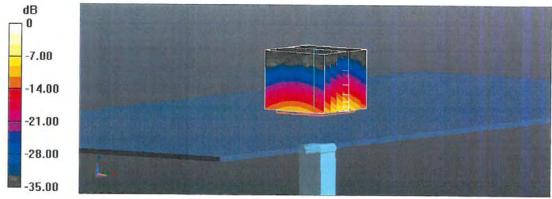
Peak SAR (extrapolated) = 30.8 W/kg

SAR(1 g) = 7.88 W/kg; SAR(10 g) = 2.22 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 66.3%

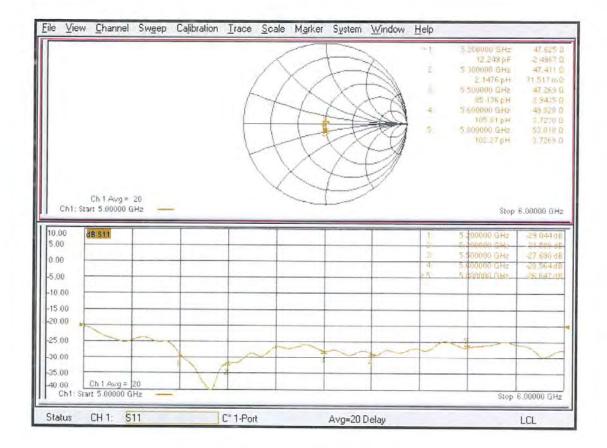
Maximum value of SAR (measured) = 18.6 W/kg



0 dB = 19.3 W/kg = 12.86 dBW/kg



Impedance Measurement Plot for Head TSL



APPENDIX C. – SAR Tissue Specifications

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The brain and muscle mixtures consist of a viscous gel using hydrox-ethylcellulose (HEC) gelling agent and saline solution (see Table 3.1). Preservation with a bactericide is added and visual inspection is made to make sure air bubbles are not trapped during the mixing process. The mixture is calibrated to obtain proper dielectric constant (permittivity) and conductivity of the desired tissue. The mixture characterizations used for the brain and muscle tissue simulating liquids are according to the data by C. Gabriel and G. Harts grove.



Figure 3.9 Simulated Tissue

Table C.1 Composition of the Tissue Equivalent Matter

Ingredients	Frequency (MHz)									
(% by weight)	83	5	1 9	000	2 4	150	5 200 ~ 5 800			
Tissue Type	Head Body		Head Body		Head Body		Head Body			
Water	40.19	50.75	55.24	70.23	71.88	73.40	65.52	80.00		
Salt (NaCl)	1.480	0.940	0.310	0.290	0.160	0.060	-	-		
Sugar	57.90	48.21	-	-	-	-	-	-		
HEC	0.250	-	-	-	-	-	-	-		
Bactericide	0.180	0.100	-	-	-	-	-	-		
Triton X-100	-	-	-	-	19.97	-	17.24	-		
DGBE	-	-	44.45	29.48	7.990	26.54	-	-		
Diethylene glycol hexyl ether	-	-	-	-	-	-	17.24	-		
Polysorbate (Tween) 80	-	-	-	-	-	-		20.00		
Target for Dielectric Constant	41.5	55.2	40.0	53.3	39.2	52.7	-	-		
Target for Conductivity (S/m)	0.90	0.97	1.40	1.52	1.80	1.95	-	-		

Salt: 99 % Pure Sodium Chloride Sugar: 98 % Pure Sucrose

Water: De-ionized, 16M resistivity HEC: Hydroxyethyl Cellulose

DGBE: 99 % Di(ethylene glycol) butyl ether,[2-(2-butoxyethoxy) ethanol]

Triton X-100(ultra pure): Polyethylene glycol mono[4-(1,1,3,3-tetramethylbutyl)phenyl] ether

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APPENDIX D. - SAR SYSTEM VALIDATION

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SAR System Validation

Per FCC KDB 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 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.

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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 21. Of its Oyotom Vandadon Gammary														
SAR Freq. System [MHz]	Freq.	Date	Probe	Probe	Probe CAL. Point		PERM.	COND.	CW Validation			MOD. Validation		
	Date	SN	Type	Probe CAL. Point		(εr)	(σ)	Sensi- tivity	Probe Linearity	Probe Isortopy	MOD. Type	Duty Factor	PAR	
D	2 450	2023.11.10	3933	EX3DV4	2 450	Head	38.878	1.855	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
D	5 300	2023.11.14	3933	EX3DV4	5 300	Head	35.845	4.935	PASS	PASS	PASS	OFDM	N/A	PASS
D	5 600	2023.11.15	3933	EX3DV4	5 600	Head	35.266	5.240	PASS	PASS	PASS	OFDM	N/A	PASS

Table D.1 SAR System Validation Summary

NOTE: While the probes have been calibrated for both a CW and mohdulated signals, all measurements were performed using communication systems calibrated for CW signals only. 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 KDB 865664.

APPENDIX E. – Description of Test Equipment

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E.1 SAR Measurement Setup

Measurements are performed using the DASY5 automated dosimetric assessment system. The DASY5 is made by Schmid & Partner Engineering AG (SPEAG) in Zurich, Switzerland and consists of high precision robotics system (Staubli), robot controller, desktop computer, near-field probe, probe alignment sensor, and the generic twin phantom containing the brain equivalent material. The robot is a six-axis industrial robot performing precise movements to position the probe to the location (points) of maximum electromagnetic field (EMF) (see Fig. E.1.1).

A cell controller system contains the power supply, robot controller each pendant (Joystick), and a remote control used to drive the robot motors. The PC consists of the Intel Core i7-3 770 3.40 GHz desktop computer with Windows 7 system and SAR Measurement Software DASY5, A/D interface card, monitor, mouse, and keyboard. The Staubli Robotis connected to the cell controller to allow software manipulation of the robot. A data acquisition electronic (DAE) circuit that performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC plug-in card.

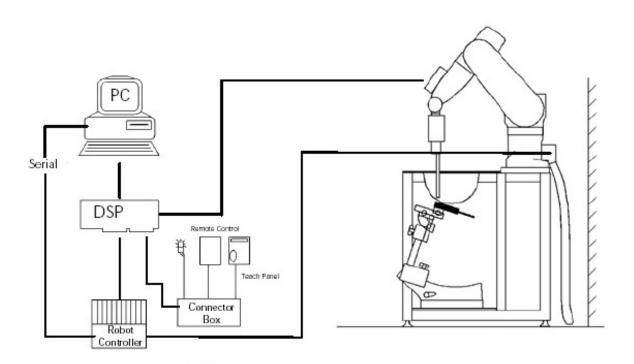


Figure E.1.1 SAR Measurement System Setup

The DAE4 consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the PC-card is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines. The mechanical probe mounting device includes two different sensor systems for frontal and sidewise probe contacts. They are also used for mechanical surface detection and probe collision detection. The robot uses its own controller with a built in VME-bus computer. The system is described in detail.

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E.2 Probe Specification

Frequency 4 MHz to 10 GHz

Linearity ±0.2 dB(30 MHz to 10 GHz)

Dynamic 10 μ W/g to > 100 mW/g

Range Linearity: ±0.2dB

Dimensions Overall length: 337 mm

Tip length 20 mm

Body diameter 12 mm

Tip diameter 2.5 mm

Distance from probe tip to sensor center 1.0 mm

Application SAR Dosimetry Testing

Compliance tests of mobile phones

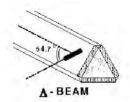


Figure E.2.1 Triangular Probe Configurations



Figure E.2.2 Probe Thick-Film Technique



DAE System

The SAR measurements were conducted with the dosimetric probe EX3DV4 designed in the classical triangular configuration(see E.2.1) and optimized for dosimetric evaluation. The probe is constructed using the thick film technique; with printed resistive lines on ceramic substrates. The probe is equipped with an optical multitier line ending at the front of the probe tip. It is connected to the EOC box on the robot arm and provides an automatic detection of the phantom surface. Half of the fibers are connected to a pulsed infrared transmitter, the other half to a synchronized receiver. As the probe approaches the surface, the reflection from the surface produces a coupling from the transmitting to the receiving fibers. This reflection increases first during the approach, reaches maximum and then decreases. If the probe is flatly touching the surface, the coupling is zero. The distance of the coupling maximum to the surface is independent of the surface reflectivity and largely independent of the surface to probe angle. The DASY5 software reads the reflection during a software approach and looks for the maximum using a 2nd order fitting. The approach is stopped at reaching the maximum.

E.3 E-Probe Calibration Process

Dosimetric Assessment Procedure

Each probe is calibrated according to a dosimetric assessment procedure with accuracy better than +/- 10%. The spherical isotropy was evaluated with the procedure and found to be better than +/-0.25dB. The sensitivity parameters (Norm X, Norm Y, Norm Z), the diode compression parameter (DCP) and the conversion factor (Conv F) of the probe is tested.

Free Space Assessment

The free space E-field from amplified probe outputs is determined in a test chamber. This is performed in a TEM cell for frequencies below 1 GHz, and in a waveguide above 1GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity at the proper orientation with the field. The probe is then rotated 360 degrees.

Temperature Assessment *

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated brain tissue. The measured free space E-field in the medium, correlates to temperature rise in a dielectric medium. For temperature correlation calibration a RF transparent the remits or based temperature probe is used in conjunction with the E-field probe.

$$SAR = C \frac{\Delta T}{\Delta t}$$

$$SAR = \frac{\left|E\right|^2 \cdot \sigma}{\rho}$$

simulated tissue conductivity,

Tissue density (1.25 g/cm³ for brain tissue)

where: where:

 Δt = exposure time (30 seconds),

C = heat capacity of tissue (brain or muscle),

 ΔT = temperature increase due to RF exposure.

SAR is proportional to $\Delta T/\Delta t$, the initial rate of tissue heating, before thermal diffusion takes place. Now it's possible to quantify the electric field in the simulated tissue by equating the thermally derived SAR to the E- field;

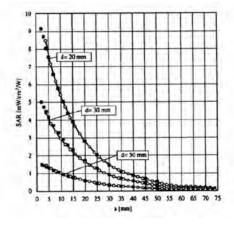


Figure E.3.1 E-Field and Temperature Measurements at 900MHz

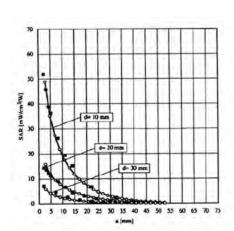


Figure E.3.2 E-Field and Temperature Measurements at 1 800MHz



E.4 Data Extrapolation

The DASY5 software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given like below;

$$V_i = U_i + U_i^2 \cdot \frac{cf}{dcp_i}$$
 with V_i = compensated signal of channel i (i=x,y,z)
 U_i = input signal of channel i (i=x,y,z)
 cf = crest factor of exciting field (DASY parameter)
 dcp_i = diode compression point (DASY parameter)

From the compensated input signals the primary field data for each channel can be evaluated:

E-field probes: with
$$V_i$$
 = compensated signal of channel i (i = x,y,z)
Norm_i = sensor sensitivity of channel i (i = x,y,z)
 $\mu V/(V/m)^2$ for E-field probes
ConvF = sensitivity of enhancement in solution
 E_i = electric field strength of channel i in V/m

The RSS value of the field components gives the total field strength (Hermetian magnitude):

$$E_{tot} = \sqrt{E_x^2 + E_y^2 + E_z^2}$$

The primary field data are used to calculate the derived field units.

$$SAR = E_{tot}^2 \cdot \frac{\sigma}{\rho \cdot 1000}$$
 with SAR = local specific absorption rate in W/g = total field strength in V/m = conductivity in [mho/m] or [Siemens/m] ρ = equivalent tissue density in g/cm³

The power flow density is calculated assuming the excitation field to be a free space field.

$$P_{pur} = \frac{E_{tot}^2}{3770}$$
 with $P_{pwe} = \text{equivalent power density of a plane wave in W/cm}^2$ = total electric field strength in V/m

E.5 SAM Twin Phantom

The SAM Twin Phantom V5.0 is constructed of a fiberglass shell integrated in a wooden table. The shape of the shell is based on data from an anatomical study designed to determine the maximum exposure in at least 90% of all users. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents the evaporation of the liquid.

Reference markings on the Phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points in the robot. (see Fig. E.5.1)



Figure E.5.1 SAM Twin Phantom

SAM Twin Phantom Specification:

Construction

The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region.

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A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.

Twin SAM V5.0 has the same shell geometry and is manufactured from the same material as Twin SAM V4.0, but has reinforced top structure.

Shell Thickness (2 ± 0.2) mmFilling VolumeApprox. 25 litersDimensionsLength: 1000 mmWidth: 500 mm

Height: adjustable feet

Specific Anthropomorphic Mannequin (SAM) Specifications:

The phantom for handset SAR assessment testing is a low-loss dielectric shell, with shape and dimensions derived from the anthropometric data of the 90th percentile adult male head dimensions as tabulated by the US Army. The SAM Twin Phantom shell is bisected along the mid-sagittal plane into right and left halves (see Fig. E.5.2). The perimeter sidewalls of each phantom halves are extended to allow filling with liquid to a depth that is sufficient to minimized reflections from the upper surface. The liquid depth is maintained at a minimum depth of 15cm to minimize reflections from the upper surface.



Figure E.5.2 Sam Twin Phantom shell

E.6 Device Holder for Transmitters

In combination with the Twin SAM Phantom V4.0/V4.0c, V5.0 or ELI4, the Mounting Device enables the rotation of the mounted transmitter device in spherical coordinates. Rotation point is the ear opening point. Transmitter devices can be easily and accurately positioned according to IEC, IEEE, FCC or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat).

Note: A simulating human hand is not used due to the complex anatomical and geometrical structure of the hand that may produce infinite number of configurations. To produce the worst-case condition (the hand absorbs antenna output power), the hand is omitted during the tests.



Figure E.6.1 Mounting Device

E.7 Automated Test System Specifications

Positioner

Robot Stäubli Unimation Corp. Robot Model: TX90XL

Repeatability 0.02 mm

No. of axis 6

Data Acquisition Electronic (DAE) System

Cell Controller

Processor Intel Core i7-3 770

Clock Speed 3.40 GHz

Operating System Windows 7 Professional DASY5 PC-Board

Data Converter

Features Signal, multiplexer, A/D converter. & control logic

Software DASY5

Connecting Lines Optical downlink for data and status info

Optical uplink for commands and clock

PC Interface Card

Function 24 bit (64 MHz) DSP for real time processing

Link to DAE 4

16 bit A/D converter for surface detection system

serial link to robot

direct emergency stop output for robot

E-Field Probes

Model EX3DV4 S/N: 3933

Construction Triangular core fiber optic detection system

Frequency 4 MHz to 10 GHz

Linearity ±0.2 dB (30 MHz to 10 GHz)

Phantom

Phantom SAM Twin Phantom (V5.0)

Shell MaterialCompositeThickness (2.0 ± 0.2) mm



Figure E.7.1 DASY5 Test System