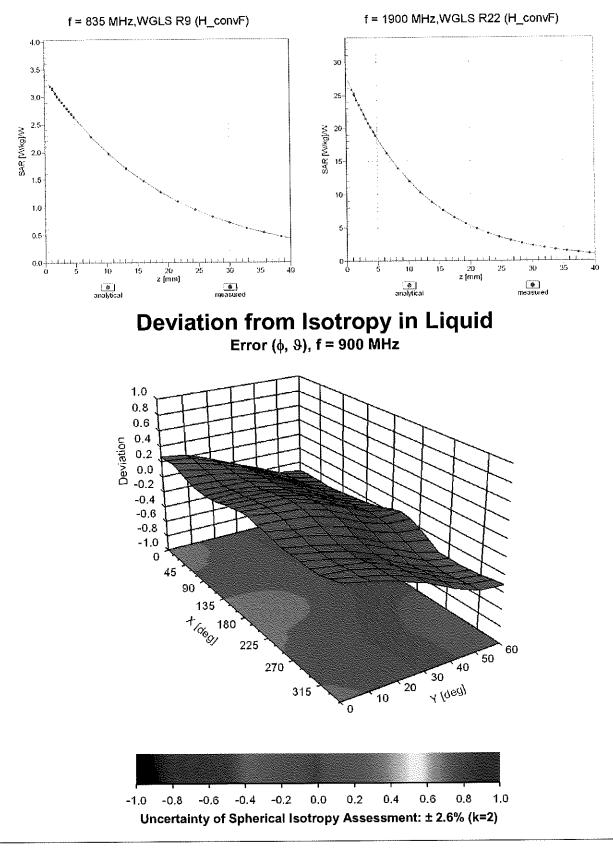


Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)

Uncertainty of Linearity Assessment: ± 0.6% (k=2)



Conversion Factor Assessment

Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E (k=2)
0		CW	CW	0.00	±4.7 %
10010	CAA	SAR Validation (Square, 100ms, 10ms)	Test	10.00	± 9.6 %
10011	CAB	UMTS-FDD (WCDMA)	WCDMA	2.91	±9.6 %
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	± 9.6 %
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	± 9,6 %
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	± 9.6 %
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	± 9.6 %
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	± 9.6 %
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	± 9.6 %
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	± 9.6 %
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	± 9.6 %
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	± 9.6 %
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	± 9.6 %
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	± 9.6 %
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	± 9.6 %
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	±9.6 %
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	± 9.6 %
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	± 9.6 %
10035		IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	± 9.6 %
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	±9.6 %
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	±9.6 %
10038		IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	± 9.6 %
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	± 9.6 %
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	± 9.6 %
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	± 9.6 %
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	± 9.6 %
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	± 9.6 %
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	± 9.6 %
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	± 9.6 %
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	± 9.6 %
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	± 9.6 %
10061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	± 9.6 %
10062	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	± 9.6 %
10063	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	± 9.6 %
10064	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	± 9.6 %
10065	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	± 9.6 %
10066 10067		IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	± 9.6 %
	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	± 9.6 %
10068		IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	± 9.6 %
10069 10071		IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN WLAN	10.56	± 9.6 %
	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)		9.83	± 9.6 %
10072 10073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps) IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.62	±9.6 % ±9.6 %
10073	CAB CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN WLAN	9.94	
10074	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 24 Mpps)	WLAN	10.30	± 9.6 % ± 9.6 %
10075		IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 38 Mbps)	WLAN	10.77	
10078	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	11.00	$\pm 9.6\%$
10077	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000		$\pm 9.6\%$
10081		IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	<u>3.97</u> 4.77	± 9.6 % ± 9.6 %
10082	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	$\pm 9.6\%$ $\pm 9.6\%$
10090	CAB	UMTS-FDD (HSDPA)	WCDMA	3.98	$\pm 9.6\%$ $\pm 9.6\%$
10097		UMTS-FDD (HSUPA) UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	± 9.6 %
10098	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	$\pm 9.6\%$ $\pm 9.6\%$
10100					
		LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	$\pm 9.6\%$
10101 10102		LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	$\pm 9.6\%$
	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10103	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10104	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	± 9.6 %
10105		LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	± 9.6 %
10108	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	± 9.6 %

10110 CAG LTE-FDD (SC-FDMA, 100%, RB, 5 MHz, QPSK) LTE-FDD 5.75 ± 10111 CAG LTE-FDD (SC-FDMA, 100%, RB, 5 MHz, 4C-QAM) LTE-FDD 6.44 ± 10112 CAG LTE-FDD (SC-FDMA, 100%, RB, 10 MHz, 4C-QAM) LTE-FDD 6.59 ± 10113 CAG LTE-FDD (SC-FDMA, 100%, RB, 5 MHz, 64-QAM) WLAN 8.10 ± 10114 CAC IEEE 802.11n (HT Greenfield, 13.5 Mbps, 64-QAM) WLAN 8.16 ± 10116 CAC IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) WLAN 8.17 ± 10117 CAC IEEE 802.11n (HT Mixed, 136 Mbps, 64-QAM) WLAN 8.17 ± 10118 CAC IEEE 802.11n (HT Mixed, 136 Mbps, 64-QAM) WLAN 8.13 ± 10140 CAC IEEE 802.11n (HT Mixed, 136 Mbps, 64-QAM) WLAN 8.13 ± 10141 CAE LTE-FDD (SC-FDMA, 100%, RB, 15 MHz, 16-QAM) LTE-FDD 6.63 ± 10142 CAE LTE-FDD (SC-FDMA, 100%, RB, 3 MHz, 64-QAM)	$\begin{array}{c} 9.6 \ \% \\$
10111 CAG LTE-FDD (SC-FDMA, 100%, RB, 5 MHz, 16-QAM) LTE-FDD 6.44 ± 10112 CAG LTE-FDD (SC-FDMA, 100%, RB, 5 MHz, 64-QAM) LTE-FDD 6.59 ± 10113 CAG LTE-FDD (SC-FDMA, 100%, RB, 5 MHz, 64-QAM) LTE-FDD 6.52 ± 10114 CAG LTE-FDD (SC-FDMA, 100%, RB, 5 MHz, 64-QAM) WLAN 8.10 ± 10115 CAC LEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) WLAN 8.46 ± 10116 CAC LEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM) WLAN 8.07 ± 10118 CAC LEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM) WLAN 8.13 ± 10119 CAC LEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM) WLAN 8.13 ± 10119 CAC LTE-FDD (SC-FDMA, 100%, RB, 15 MHz, 64-QAM) LTE-FDD 6.53 ± 10141 CAE LTE-FDD (SC-FDMA, 100%, RB, 3 MHz, 16-QAM) LTE-FDD 6.35 ± 10142 CAE LTE-FDD (SC-FDMA, 100%, RB, 3 MHz, 16-QAM)	$\begin{array}{c} 9.6 \ \% \\$
10112 CAG LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM) LTE-FDD 6.69 ± 10113 CAG LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM) LTE-FDD 6.62 ± 10114 CAC IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK) WLAN 8.16 ± 10116 CAC IEEE 802.11n (HT Greenfield, 13.5 Mbps, 64-QAM) WLAN 8.15 ± 10117 CAC IEEE 802.11n (HT Mixed, 13.5 Mbps, 64-QAM) WLAN 8.59 ± 10118 CAC IEEE 802.11n (HT Mixed, 13.5 Mbps, 64-QAM) WLAN 8.13 ± 10119 CAC IEEE 802.11n (HT Mixed, 13.5 Mbps, 64-QAM) WLAN 8.13 ± 10140 CAE LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) LTE-FDD 6.53 ± 10141 CAE LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK) LTE-FDD 6.65 ± 10143 CAE LTE-FDD (SC-FDMA, 100% RB, 14 MHz, QPSK) LTE-FDD 6.65 ± 10144 CAE LTE-FDD (SC-FDMA, 100% RB, 14 MHz, QPSK) LTE-FDD <td>$\begin{array}{c} 9.6 \ \% \\$</td>	$\begin{array}{c} 9.6 \ \% \\$
10113 CAG LTE-FDD 6.62 ± 10114 CAC IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK) WLAN 8.10 ± 10115 CAC IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK) WLAN 8.46 ± 10116 CAC IEEE 802.11n (HT Greenfield, 13.5 Mbps, 64-QAM) WLAN 8.15 ± 10117 CAC IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK) WLAN 8.15 ± 10118 CAC IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM) WLAN 8.13 ± 10119 CAC IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM) WLAN 8.13 ± 10140 CAE LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) LTE-FDD 6.5.73 ± 10142 CAE LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) LTE-FDD 6.5.73 ± 10142 CAE LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) LTE-FDD 6.65 ± 10144 CAE LTE-FDD (SC-FDMA, 100% RB, 14 MHz, 0PSK) LTE-FDD 6.66 ± 10145	$\begin{array}{c} 9.6 \ \% \\$
10114 CAC IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK) WLAN 8.10 ± 10116 CAC IEEE 802.11n (HT Greenfield, 13.5 Mbps, 16-QAM) WLAN 8.16 ± 10116 CAC IEEE 802.11n (HT Greenfield, 13.5 Mbps, 64-QAM) WLAN 8.15 ± 10117 CAC IEEE 802.11n (HT Mixed, 13.5 Mbps, 64-QAM) WLAN 8.07 ± 10118 CAC IEEE 802.11n (HT Mixed, 13.5 Mbps, 64-QAM) WLAN 8.13 ± 10110 CAC IEEE 802.11n (HT Mixed, 13.5 Mbps, 64-QAM) WLAN 8.13 ± 10114 CAC IEEE 802.11n (HT Mixed, 13.5 Mbps, 64-QAM) WLAN 8.13 ± 10140 CAE LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) LTE-FDD 6.73 ± 10141 CAE LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 04-QAM) LTE-FDD 6.73 ± 10142 CAE LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 04-QAM) LTE-FDD 6.72 ± 10145 CAF LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM) LTE-FDD 6.72	$\begin{array}{c} 9.6 \ \% \\$
10115 CAC IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM) WLAN 8.46 ± 10116 CAC IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM) WLAN 8.17 ± 10117 CAC IEEE 802.11n (HT Mixed, 135 Mbps, BPSK) WLAN 8.07 ± 10118 CAC IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM) WLAN 8.15 ± 10119 CAC IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM) WLAN 8.13 ± 10140 CAE LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM) UTE-FDD 6.43 ± 10141 CAE LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) LTE-FDD 6.53 ± 10142 CAE LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) LTE-FDD 6.35 ± 10144 CAE LTE-FDD (SC-FDMA, 100% RB, 14 MHz, 16-QAM) LTE-FDD 6.65 ± 10144 CAF LTE-FDD (SC-FDMA, 100% RB, 14 MHz, 16-QAM) LTE-FDD 6.41 ± 10145 CAF LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) LTE-FDD 6.65 <t< td=""><td>$\begin{array}{c} 9.6 \ \% \\$</td></t<>	$\begin{array}{c} 9.6 \ \% \\$
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10117 CAC IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK) WLAN 8.07 ± 10118 CAC IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM) WILAN 8.59 ± 10119 CAC IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM) WILAN 8.13 ± 10140 CAE LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM) LTE-FDD 6.49 ± 10141 CAE LTE-FDD (SC-FDMA, 100% RB, 16 MHz, QFSK) LTE-FDD 6.53 ± 10142 CAE LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) LTE-FDD 6.35 ± 10143 CAE LTE-FDD (SC-FDMA, 100% RB, 14 MHz, QPSK) LTE-FDD 6.35 ± 10144 CAE LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) LTE-FDD 6.41 ± 10145 CAF LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) LTE-FDD 6.42 ± 10146 CAF LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) LTE-FDD 6.42 ± 10147 CAF LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) LTE-FDD 6.42 ±	$\begin{array}{c} 9.6 \ \% \\$
10118 CAC IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM) WLAN 8.59 ± 10119 CAC IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM) WLAN 8.13 ± 10140 CAE LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 04-QAM) LTE-FDD 6.49 ± 10141 CAE LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 04-QAM) LTE-FDD 6.53 ± 10142 CAE LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 04-QAM) LTE-FDD 6.35 ± 10144 CAE LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 04-QAM) LTE-FDD 6.65 ± 10145 CAF LTE-FDD (SC-FDMA, 100% RB, 14 MHz, 64-QAM) LTE-FDD 6.76 ± 10146 CAF LTE-FDD (SC-FDMA, 100% RB, 14 MHz, 64-QAM) LTE-FDD 6.72 ± 10147 CAE LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) LTE-FDD 6.60 ± 10147 CAE LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 04-QAM) LTE-FDD 6.42 ± 10147 CAE LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) LTE-FDD 6.60	$\begin{array}{c} 9.6 \ \% \\$
10119 CAC IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM) WLAN 8.13 ± 10140 CAE LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM) LTE-FDD 6.49 ± 10141 CAE LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QAM) LTE-FDD 6.53 ± 10142 CAE LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QAM) LTE-FDD 6.53 ± 10143 CAE LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QAM) LTE-FDD 6.65 ± 10144 CAE LTE-FDD (SC-FDMA, 100% RB, 14 MHz, QPSK) LTE-FDD 6.66 ± 10145 CAF LTE-FDD (SC-FDMA, 100% RB, 14 MHz, QPSK) LTE-FDD 6.76 ± 10146 CAF LTE-FDD (SC-FDMA, 100% RB, 14 MHz, QAM) LTE-FDD 6.41 ± 10147 CAF LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) LTE-FDD 6.42 ± 10149 CAE LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) LTE-FDD 6.42 ± 10150 CAG LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) LTE-FDD 6.42 ±	$\begin{array}{c} 9.6 \ \% \\$
10140 CAE LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM) LTE-FDD 6.49 ± 10141 CAE LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM) LTE-FDD 6.53 ± 10142 CAE LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK) LTE-FDD 5.73 ± 10143 CAE LTE-FDD (SC-FDMA, 100% RB, 3 MHz, G4-QAM) LTE-FDD 6.65 ± 10144 CAE LTE-FDD (SC-FDMA, 100% RB, 3 MHz, G4-QAM) LTE-FDD 6.65 ± 10145 CAF LTE-FDD (SC-FDMA, 100% RB, 14 MHz, G4-QAM) LTE-FDD 6.76 ± 10146 CAF LTE-FDD (SC-FDMA, 100% RB, 14 MHz, 64-QAM) LTE-FDD 6.41 ± 10147 CAF LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) LTE-FDD 6.42 ± 10150 CAE LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) LTE-FDD 6.60 ± 10151 CAG LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) LTE-FDD 9.28 ± 10152 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK) LTE-FDD 9.27	9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 %
10141 CAE LTE-FDD SC-FDMA, 100% RB, 15 MHz, 64-QAM) LTE-FDD 6.53 ± 10142 CAE LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK) LTE-FDD 5.73 ± 10143 CAE LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM) LTE-FDD 6.65 ± 10144 CAE LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) LTE-FDD 6.65 ± 10145 CAF LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) LTE-FDD 6.67 ± 10146 CAF LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) LTE-FDD 6.41 ± 10147 CAF LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) LTE-FDD 6.42 ± 10150 CAE LTE-FDD (SC-FDMA, 50% RB, 20 MHz, G4-QAM) LTE-FDD 6.42 ± 10151 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, G4-QAM) LTE-FDD 6.42 ± 10152 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, G4-QAM) LTE-FDD 9.92 ± 10154 CAG LTE-FDD (SC-FDMA, 50% RB, 20 MHz, G4-QAM) LTE-FDD	9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 %
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10143 CAE LTE-FDD S.5 ± 10144 CAE LTE-FDD SC-FDMA, 100% RB, 3 MHz, 64-QAM) LTE-FDD S.65 ± 10144 CAF LTE-FDD SC-FDMA, 100% RB, 14 MHz, QPSK) LTE-FDD S.76 ± 10146 CAF LTE-FDD SC-FDMA, 100% RB, 14 MHz, QPSK) LTE-FDD S.76 ± 10146 CAF LTE-FDD SC-FDMA, 100% RB, 14 MHz, 16-QAM) LTE-FDD S.71 ± 10147 CAF LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) LTE-FDD S.42 ± 10150 CAE LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) LTE-FDD S.42 ± 10151 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) LTE-TDD 9.92 ± 10152 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 04-QAM) LTE-FDD 5.75 ± 10153 CAG LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 04-QAM) LTE-FDD 5.75 ± 10154 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 04-QAM) LTE-FDD 5.75	9.6 % 9.6 %
10144 CAE LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM) LTE-FDD 6.65 ± 10145 CAF LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) LTE-FDD 5.76 ± 10146 CAF LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) LTE-FDD 6.41 ± 10147 CAF LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) LTE-FDD 6.42 ± 10149 CAE LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) LTE-FDD 6.42 ± 10150 CAE LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) LTE-FDD 6.60 ± 10151 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) LTE-FDD 9.28 ± 10152 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 0F-QAM) LTE-FDD 9.92 ± 10152 CAG LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 0F-QAM) LTE-FDD 9.92 ± 10152 CAG LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 0F-QAM) LTE-FDD 9.92 ±	9.6 % 9.6 %
10145 CAF LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK) LTE-FDD 5.76 ± 10146 CAF LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) LTE-FDD 6.41 ± 10147 CAF LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) LTE-FDD 6.72 ± 10149 CAE LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) LTE-FDD 6.72 ± 10150 CAE LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) LTE-FDD 6.60 ± 10151 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 04-QAM) LTE-TDD 9.28 ± 10152 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 04-QAM) LTE-TDD 9.92 ± 10152 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 04-QAM) LTE-TDD 9.92 ± 10153 CAG LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 04-QAM) LTE-FDD 5.75 ± 10154 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 04-QAM) LTE-FDD 5.79 ± 10155 CAG	9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 %
10146 CAF LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM) LTE-FDD 6.41 ± 10147 CAF LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) LTE-FDD 6.72 ± 10149 CAE LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) LTE-FDD 6.72 ± 10150 CAE LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) LTE-FDD 6.60 ± 10151 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 04-QAM) LTE-TDD 9.28 ± 10152 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) LTE-TDD 9.92 ± 10153 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 04-QAM) LTE-TDD 9.92 ± 10154 CAG LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 04-QAM) LTE-TDD 9.92 ± 10155 CAG LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 04-QAM) LTE-TDD 9.92 ± 10155 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 04-QAM) LTE-FDD 5.75 ± 10156 CAG LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 04-QAM) LTE-FDD	9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 %
10147 CAF LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM) LTE-FDD 6.72 ± 10149 CAE LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) LTE-FDD 6.42 ± 10150 CAE LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) LTE-FDD 6.60 ± 10151 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) LTE-TDD 9.28 ± 10152 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) LTE-TDD 9.92 ± 10152 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) LTE-TDD 10.05 ± 10152 CAG LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) LTE-FDD 5.75 ± 10155 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK) LTE-FDD 5.79 ± 10156 CAG LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK) LTE-FDD 6.62 ± 10157 CAG LTE-FDD (SC-FDMA, 50% RB, 5 MHz, G4-QAM) LTE-FDD 6.82 ± 10158 CAG	9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 %
10149 CAE LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) LTE-FDD 6.42 ± 10150 CAE LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) LTE-FDD 6.60 ± 10151 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK) LTE-TDD 9.28 ± 10152 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) LTE-TDD 9.92 ± 10153 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) LTE-TDD 9.92 ± 10154 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) LTE-TDD 9.92 ± 10154 CAG LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK) LTE-FDD 5.75 ± 10155 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK) LTE-FDD 6.43 ± 10156 CAG LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK) LTE-FDD 5.79 ± 10157 CAG LTE-FDD (SC-FDMA, 50% RB, 5 MHz, G4-QAM) LTE-FDD 6.62 ± 10158 CAG LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK) LTE-FDD 6.62 ± <td>9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 %</td>	9.6 % 9.6 % 9.6 % 9.6 % 9.6 % 9.6 %
10150 CAE LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) LTE-FDD 6.60 ± 10151 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK) LTE-TDD 9.28 ± 10152 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) LTE-TDD 9.92 ± 10153 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) LTE-TDD 10.05 ± 10154 CAG LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) LTE-FDD 5.75 ± 10155 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK) LTE-FDD 6.43 ± 10156 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM) LTE-FDD 6.49 ± 10157 CAG LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK) LTE-FDD 6.62 ± 10158 CAG LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) LTE-FDD 6.62 ± 10160 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK) LTE-FDD 6.82 ± 10161 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK) LTE-FDD 6.84 ± <td>9.6 % 9.6 % 9.6 % 9.6 % 9.6 %</td>	9.6 % 9.6 % 9.6 % 9.6 % 9.6 %
10151 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK) LTE-TDD 9.28 ± 10152 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) LTE-TDD 9.92 ± 10153 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) LTE-TDD 10.05 ± 10154 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK) LTE-FDD 5.75 ± 10155 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK) LTE-FDD 6.43 ± 10156 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, GPSK) LTE-FDD 6.43 ± 10157 CAG LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) LTE-FDD 6.49 ± 10158 CAG LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) LTE-FDD 6.62 ± 10160 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-FDD 6.62 ± 10161 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-FDD 5.82 ± 10160 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-FDD 6.43 ±<	9.6 % 9.6 % 9.6 % 9.6 % 9.6 %
10152 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) LTE-TDD 9.92 ± 10153 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) LTE-TDD 10.05 ± 10154 CAG LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) LTE-TDD 10.05 ± 10154 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK) LTE-FDD 5.75 ± 10155 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM) LTE-FDD 6.43 ± 10156 CAG LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK) LTE-FDD 6.49 ± 10157 CAG LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK) LTE-FDD 6.62 ± 10158 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) LTE-FDD 6.62 ± 10159 CAG LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK) LTE-FDD 5.82 ± 10160 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, G4-QAM) LTE-FDD 5.82 ± 10161 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-FDD 6.43 ±	9.6 % 9.6 % 9.6 % 9.6 %
10153 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) LTE-TDD 10.05 ± 10154 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK) LTE-FDD 5.75 ± 10155 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK) LTE-FDD 6.43 ± 10156 CAG LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK) LTE-FDD 5.79 ± 10157 CAG LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) LTE-FDD 6.49 ± 10158 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) LTE-FDD 6.62 ± 10159 CAG LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-FDD 6.62 ± 10160 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-FDD 6.82 ± 10161 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK) LTE-FDD 6.43 ± 10162 CAE LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) LTE-FDD 6.84 ± 10166 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) LTE-FDD 5.73 ±<	9.6 % 9.6 % 9.6 %
10154 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK) LTE-FDD 5.75 ± 10155 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM) LTE-FDD 6.43 ± 10156 CAG LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK) LTE-FDD 5.79 ± 10157 CAG LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) LTE-FDD 6.49 ± 10158 CAG LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) LTE-FDD 6.62 ± 10159 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) LTE-FDD 6.62 ± 10160 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK) LTE-FDD 6.82 ± 10161 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK) LTE-FDD 6.43 ± 10162 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-FDD 6.58 ± 10166 CAF LTE-FDD (SC-FDMA, 50% RB, 14 MHz, 64-QAM) LTE-FDD 5.46 ± 10167 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-FDD 6.21 ± </td <td>9.6 % 9.6 %</td>	9.6 % 9.6 %
10155 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM) LTE-FDD 6.43 ± 10156 CAG LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK) LTE-FDD 5.79 ± 10157 CAG LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) LTE-FDD 6.49 ± 10158 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) LTE-FDD 6.62 ± 10159 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) LTE-FDD 6.62 ± 10160 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK) LTE-FDD 5.82 ± 10161 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-FDD 6.43 ± 10162 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK) LTE-FDD 6.43 ± 10162 CAE LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) LTE-FDD 6.58 ± 10166 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) LTE-FDD 5.46 ± 10167 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-FDD 6.79 ± 10168 CAF LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	9.6 %
10156 CAG LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK) LTE-FDD 5.79 ± 10157 CAG LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) LTE-FDD 6.49 ± 10158 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) LTE-FDD 6.62 ± 10159 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) LTE-FDD 6.62 ± 10160 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 04-QAM) LTE-FDD 5.82 ± 10161 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 04-QAM) LTE-FDD 6.43 ± 10162 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 04-QAM) LTE-FDD 6.43 ± 10162 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 04-QAM) LTE-FDD 6.43 ± 10162 CAE LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 04-QAM) LTE-FDD 6.58 ± 10166 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 0PSK) LTE-FDD 5.46 ± 10167 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 04-QAM) LTE-FDD 6.79	
10157 CAG LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM) LTE-FDD 6.49 ± 10158 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) LTE-FDD 6.62 ± 10159 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) LTE-FDD 6.62 ± 10159 CAG LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) LTE-FDD 6.56 ± 10160 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK) LTE-FDD 5.82 ± 10161 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM) LTE-FDD 6.43 ± 10162 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-FDD 6.58 ± 10162 CAE LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) LTE-FDD 6.58 ± 10166 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) LTE-FDD 5.46 ± 10167 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 04-QAM) LTE-FDD 6.21 ± 10168 CAF LTE-FDD (SC-FDMA, 10% RB, 20 MHz, QPSK) LTE-FDD 5.73	
10158 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM) LTE-FDD 6.62 ± 10159 CAG LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) LTE-FDD 6.56 ± 10160 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK) LTE-FDD 5.82 ± 10161 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK) LTE-FDD 6.43 ± 10162 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-FDD 6.58 ± 10162 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-FDD 6.58 ± 10166 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) LTE-FDD 5.46 ± 10167 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) LTE-FDD 6.21 ± 10168 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-FDD 6.79 ± 10169 CAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-FDD 5.73 ± 10170 CAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) LTE-FDD 6.52 ± </td <td>9.6 %</td>	9.6 %
10159 CAG LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM) LTE-FDD 6.56 ± 10160 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK) LTE-FDD 5.82 ± 10161 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM) LTE-FDD 6.43 ± 10162 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-FDD 6.58 ± 10162 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-FDD 6.58 ± 10166 CAF LTE-FDD (SC-FDMA, 50% RB, 14 MHz, QPSK) LTE-FDD 5.46 ± 10167 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, G4-QAM) LTE-FDD 6.21 ± 10168 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-FDD 6.79 ± 10169 CAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-FDD 5.73 ± 10170 CAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) LTE-FDD 6.52 ± 10171 AAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-FDD 6.49 ±	9.6 %
10160 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK) LTE-FDD 5.82 ± 10161 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM) LTE-FDD 6.43 ± 10162 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-FDD 6.58 ± 10162 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-FDD 6.58 ± 10166 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) LTE-FDD 5.46 ± 10167 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) LTE-FDD 6.21 ± 10168 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-FDD 6.79 ± 10169 CAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-FDD 5.73 ± 10170 CAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) LTE-FDD 6.52 ± 10171 AAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) LTE-FDD 6.49 ± 10172 CAG LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-FDD 9.21 ±	9.6 %
10161 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM) LTE-FDD 6.43 ± 10162 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-FDD 6.58 ± 10162 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-FDD 6.58 ± 10166 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) LTE-FDD 5.46 ± 10167 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) LTE-FDD 6.21 ± 10168 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-FDD 6.79 ± 10169 CAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-FDD 5.73 ± 10170 CAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) LTE-FDD 6.52 ± 10171 AAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) LTE-FDD 6.49 ± 10172 CAG LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-FDD 9.21 ±	9.6 %
10162 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-FDD 6.58 ± 10166 CAF LTE-FDD (SC-FDMA, 50% RB, 14 MHz, QPSK) LTE-FDD 5.46 ± 10167 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) LTE-FDD 6.21 ± 10168 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) LTE-FDD 6.79 ± 10169 CAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-FDD 5.73 ± 10170 CAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) LTE-FDD 6.52 ± 10171 AAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) LTE-FDD 6.49 ± 10172 CAG LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-FDD 9.21 ±	9.6 %
10166 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK) LTE-FDD 5.46 ± 10167 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) LTE-FDD 6.21 ± 10168 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) LTE-FDD 6.79 ± 10169 CAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-FDD 5.73 ± 10170 CAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) LTE-FDD 6.52 ± 10171 AAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) LTE-FDD 6.49 ± 10172 CAG LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-TDD 9.21 ±	9.6 %
10167 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) LTE-FDD 6.21 ± 10168 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-FDD 6.79 ± 10169 CAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-FDD 5.73 ± 10170 CAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) LTE-FDD 6.52 ± 10171 AAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) LTE-FDD 6.49 ± 10172 CAG LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-TDD 9.21 ±	9.6 %
10168 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-FDD 6.79 ± 10169 CAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-FDD 5.73 ± 10170 CAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-FDD 6.52 ± 10171 AAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) LTE-FDD 6.49 ± 10172 CAG LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-TDD 9.21 ±	9.6 %
10169 CAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-FDD 5.73 ± 10169 CAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-FDD 5.73 ± 10170 CAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) LTE-FDD 6.52 ± 10171 AAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) LTE-FDD 6.49 ± 10172 CAG LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-TDD 9.21 ±	9.6 %
10170 CAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) LTE-FDD 6.52 ± 10171 AAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) LTE-FDD 6.49 ± 10172 CAG LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-TDD 9.21 ±	9.6 %
10171 AAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) LTE-FDD 6.49 ± 10172 CAG LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-TDD 9.21 ±	9.6 %
10172 CAG LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-TDD 9.21 ±	9.6 %
	9.6 %
	9.6 %
	9.6 %
	9.6 %
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	9.6 %
10181 CAE LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK) LTE-FDD 5.72 ±	9.6 %
	9.6 %
10183 AAD LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) LTE-FDD 6.50 ±	9.6 %
10184 CAE LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK) LTE-FDD 5.73 ±	9.6 %
10185 CAE LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) LTE-FDD 6.51 ±	9.6 %
10186 AAE LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) LTE-FDD 6.50 ±	9.6 %
10187 CAF LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) LTE-FDD 5.73 ±	9.6 %
10188 CAF LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) LTE-FDD 6.52 ±	9.6 %
10189 AAF LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) LTE-FDD 6.50 ±	
10193 CAC IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK) WLAN 8.09 ±	9.6 %
10194 CAC IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) WLAN 8.12 ±	: 9.6 % : 9.6 %
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To too of the EEE open that the time of th	9.6 % 9.6 % 9.6 % 9.6 %
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10219 CAC IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK) WLAN 8.03 ±	9.6 % 9.6 % 9.6 % 9.6 % 9.6 %

10220	CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	±9.6 %
10221	CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	± 9.6 %
10222	CAC	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	± 9.6 %
10223	CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	± 9.6 %
10224	CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	± 9.6 %
10225	CAB	UMTS-FDD (HSPA+)	WCDMA	5.97	± 9.6 %
10226	CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	±9.6 %
10227	CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	±9.6 %
10228	CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	± 9.6 %
10229	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	±9.6 %
10230	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10231	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	± 9.6 %
10232	CAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	±9.6 %
10233	CAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10234	CAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10235	CAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	±9.6 %
10236	CAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10237	CAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10238	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10239	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	±9.6 %
10240	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	±9.6 %
10241	CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	±9.6 %
10242	CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	±9.6 %
10243	CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	± 9.6 %
10244	CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10245	CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	± 9.6 %
10246	CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	± 9.6 %
10247	CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	± 9.6 %
10248	CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	±9.6 %
10249	CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	±9.6 %
10250	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	± 9.6 %
10251	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	± 9.6 %
10252	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10253	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	±9.6 %
10254	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	±9.6 %
10255	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	± 9.6 %
10256	CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	± 9.6 %
10257	CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	± 9.6 %
10258	CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	±9.6 %
10259	CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	± 9.6 %
10260	CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	± 9.6 %
10261	CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10262		LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	± 9.6 %
10263	CAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	± 9.6 %
10264	CAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9,23	± 9.6 %
10265	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10266	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.02	± 9.6 %
10267	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	± 9.6 %
10268	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10269	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.00	± 9.6 %
10200	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	± 9.6 %
10270	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	± 9.6 %
10275	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	± 9.6 %
10270	CAA	PHS (QPSK)	PHS	11.81	± 9.6 %
10277	CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	PHS	11.81	± 9.6 %
10270	CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	PHS	12.18	± 9.6 %
10273	AAB	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	± 9.6 %
10291	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	± 9.6 %
10291	AAB	CDMA2000, RC3, SO33, Full Rate	CDMA2000	3.39	± 9.6 %
10292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.50	± 9.6 %
10295	AAB	CDMA2000, RC3, SO3, Full Rate CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000 CDMA2000	12.49	±9.6 %
10295	AAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	± 9.6 %
10297	AAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.72	$\pm 9.6\%$ $\pm 9.6\%$
10298	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	$\pm 9.6\%$ $\pm 9.6\%$
10233				ບ.ວອ	

10300	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	±9.6 %
10301	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	WIMAX	12.03	±9.6 %
10302	AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	WIMAX	12.57	± 9.6 %
10303	AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	WIMAX	12.52	±9.6 %
10304	AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	WIMAX	11.86	± 9.6 %
10305	ΑΑΑ	IEEE 802.16e WIMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	WIMAX	15.24	± 9.6 %
10306	ΑΑΑ	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	WIMAX	14.67	± 9.6 %
10307	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	WIMAX	14.49	± 9.6 %
10308	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	WIMAX	14.46	±9.6 %
10309	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	WIMAX	14.58	± 9.6 %
10310	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	WIMAX	14.57	± 9.6 %
10311	AAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	± 9.6 %
10313	AAA	IDEN 1:3	IDEN	10.51	± 9.6 %
10314	AAA	IDEN 1:6	IDEN	13.48	± 9.6 %
10315	AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	WLAN	1.71	±9.6 %
10316	AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	± 9.6 %
10317	AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	± 9.6 %
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	± 9.6 %
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	± 9.6 %
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	±9.6%
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2,22	±9.6 %
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic Generic	0.97 5.10	± 9.6 % ± 9.6 %
10387 10388	AAA AAA	QPSK Waveform, 1 MHz QPSK Waveform, 10 MHz	Generic	5.22	$\pm 9.6\%$
10386		64-QAM Waveform, 100 kHz	Generic	6.27	± 9.6 %
10390	AAA	64-QAM Waveform, 100 KHz	Generic	6.27	± 9.6 %
10400	AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10401	AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	± 9.6 %
10402	AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	WLAN	8.53	± 9.6 %
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	± 9.6 %
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	±9.6 %
10406	AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	± 9.6 %
10410	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	LTE-TDD	7.82	± 9.6 %
10414	AAA	WLAN CCDF, 64-QAM, 40MHz	Generic	8.54	± 9.6 %
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WLAN	1.54	± 9.6 %
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	±9.6 %
10417	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	± 9.6 %
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	WLAN	8.14	±9.6 %
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	WLAN	8.19	± 9.6 %
10422	AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	± 9.6 %
10423	AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	±9.6 %
10424	AAB	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	±9.6 %
10425	AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	±9.6 %
10426	AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	± 9.6 %
10427	AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	± 9.6 %
10430	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	± 9.6 %
10431	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	± 9.6 %
10432	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10433		LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10434	AAA	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	± 9.6 %
10435	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10447	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	± 9.6 %
10448	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.53	± 9.6 %
10449	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7.51	± 9.6 %
10450	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7,48	±9.6 %

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10451	AAA	W CDMA (BS Toot Model 4, 64 DDOLL Officering 449()		7 50	
10451	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)		7.59	± 9.6 %
10456		IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle) UMTS-FDD (DC-HSDPA)	WLAN WCDMA	8.63 6.62	± 9.6 % ± 9.6 %
10457	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	$\pm 9.6\%$ $\pm 9.6\%$
10459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	$\pm 9.6\%$
10460	AAA	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	± 9.6 %
10461	AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
		Subframe=2,3,4,7,8,9)	212 100	1102	
10462	AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL	LTE-TDD	8.30	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10463	AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL	LTE-TDD	8.56	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10464	AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
40.405		Subframe=2,3,4,7,8,9)			
10465	AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL	LTE-TDD	8.32	±9.6 %
10466	AAB	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL		0.57	1004
10400		Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	± 9.6 %
10467	AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
10401		Subframe=2,3,4,7,8,9)		1.02	1 9.0 %
10468	AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL	LTE-TDD	8.32	± 9.6 %
		Subframe=2,3,4,7,8,9)		0.02	
10469	AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL	LTE-TDD	8.56	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10470	AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL	LTE-TDD	7.82	±9.6 %
		Subframe=2,3,4,7,8,9)			
10471	AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL	LTE-TDD	8.32	±9.6 %
40.470		Subframe=2,3,4,7,8,9)			
10472	AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL	LTE-TDD	8.57	± 9.6 %
10473	AAE	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL	LTE-TDD	7.82	± 9.6 %
10475		Subframe=2,3,4,7,8,9)		1.02	19.0 %
10474	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL	LTE-TDD	8.32	± 9.6 %
10111	1	Subframe=2,3,4,7,8,9)		0.02	1 2 0.0 %
10475	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL	LTE-TDD	8.57	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10477	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL	LTE-TDD	8.32	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10478	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL	LTE-TDD	8.57	±9.6 %
40470		Subframe=2,3,4,7,8,9)			
10479	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL	LTE-TDD	7.74	±9.6 %
10480	AAA	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL	LTE-TDD	8.18	± 9.6 %
10400		Subframe=2,3,4,7,8,9)		0.10	± 9.0 %
10481	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL	LTE-TDD	8.45	± 9.6 %
		Subframe=2,3,4,7,8,9)		0.10	
10482	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL	LTE-TDD	7.71	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10483	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL	LTE-TDD	8.39	± 9.6 %
	<u> </u>	Subframe=2,3,4,7,8,9)			
10484	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL	LTE-TDD	8.47	± 9.6 %
40.40 7		Subframe=2,3,4,7,8,9)			
10485	AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL	LTE-TDD	7.59	± 9.6 %
10486	AAE	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL	LTE-TDD	8.38	± 9.6 %
10400		Subframe=2,3,4,7,8,9)		0.00	1 9.0 %
10487	AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL	LTE-TDD	8.60	± 9.6 %
		Subframe=2,3,4,7,8,9)		5.00	
10488	AAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL	LTE-TDD	7.70	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10489	AAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL	LTE-TDD	8.31	± 9.6 %
		Subframe=2,3,4,7,8,9)			ļ]
10490	AAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL	LTE-TDD	8.54	± 9.6 %
10404		Subframe=2,3,4,7,8,9)		7 7 1	
10491	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL	LTE-TDD	7.74	± 9.6 %
L	.1	Subframe=2,3,4,7,8,9)	l.	l	

10492	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.41	± 9.6 %
10493	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	±9.6 %
10494	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6 %
10495	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.37	±9.6 %
10496	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6 %
10497	AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	± 9.6 %
10498	AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.40	±9.6 %
10499	AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.68	± 9.6 %
10500	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.67	± 9.6 %
10501	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.44	± 9.6 %
10502	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.52	± 9.6 %
10503	AAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.72	±9.6 %
10504	AAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	±9.6 %
10505	AAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	± 9.6 %
10506	AAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6%
10507	AAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.36	±9.6 %
10508	AAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.55	±9.6 %
10509	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.99	± 9.6 %
10510	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.49	± 9.6 %
10511	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.51	± 9.6 %
10512	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	±9.6 %
10513	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.42	± 9.6 %
10514	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	± 9,6 %
10515	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	WLAN	1.58	± 9.6 %
10516	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	WLAN	1.57	± 9.6 %
10517	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	WLAN	1.58	± 9.6 %
10518	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	± 9.6 %
10519	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	± 9.6 %
10520	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.12	± 9.6 %
10521	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	7.97	± 9,6 %
10522	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.45	± 9.6 %
	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	± 9.6 %
10523	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.27	± 9.6 %
10524		IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	WLAN	8.36	±9.6 %
10524 10525	AAB				
10524 10525 10526	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10524 10525 10526 10527	AAB AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	WLAN WLAN	8.42 8.21	± 9.6 % ± 9.6 %
10524 10525 10526 10527 10528	AAB AAB AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	WLAN WLAN WLAN	8.42 8.21 8.36	± 9.6 % ± 9.6 % ± 9.6 %
10524 10525 10526 10527 10528 10529	AAB AAB AAB AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	WLAN WLAN WLAN WLAN	8.42 8.21 8.36 8.36	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %
10524105251052610527105281052910531	AAB AAB AAB AAB AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	WLAN WLAN WLAN WLAN WLAN	8.42 8.21 8.36 8.36 8.43	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %
10524 10525 10526 10527 10528 10529	AAB AAB AAB AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	WLAN WLAN WLAN WLAN	8.42 8.21 8.36 8.36	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %

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10535			r		
	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	WLAN	8.45	±9.6 %
10536	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	WLAN	8.32	± 9.6 %
10537	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	WLAN	8.44	±9.6 %
10538	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	WLAN	8.54	± 9.6 %
10540	AAB	IEEE 802.11ac WIFi (40MHz, MCS6, 99pc duty cycle)	WLAN	8.39	±9.6 %
10541	AAB	IEEE 802.11ac WIFi (40MHz, MCS7, 99pc duty cycle)	WLAN	8.46	±9.6 %
10542	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	WLAN	8.65	± 9.6 %
10543	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	WLAN	8.65	± 9.6 %
10544	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	WLAN	8.47	± 9.6 %
10545	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	WLAN	8.55	±9.6 %
10546	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	WLAN	8.35	±9.6 %
10547	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	WLAN	8.49	± 9.6 %
10548	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	WLAN	8.37	±9.6 %
10550	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	WLAN	8,38	±9.6 %
10551	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	WLAN	8.50	± 9.6 %
10552	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10553	AAB	IEEE 802.11ac WIFI (80MHz, MCS9, 99pc duty cycle)	WLAN	8.45	±9.6 %
10554	AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	WLAN	8.48	±9.6 %
10555	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	WLAN	8.47	± 9.6 %
10556	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	WLAN	8.50	± 9.6 %
10557	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	WLAN	8.52	± 9.6 %
10558	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	WLAN	8.61	± 9.6 %
10560	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	WLAN	8.73	± 9.6 %
10561	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	WLAN	8.56	± 9.6 %
10562	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	WLAN	8.69	± 9.6 %
10563	AAC	IEEE 802.11ac WiFI (160MHz, MCS9, 99pc duty cycle)	WLAN	8.77	± 9.6 %
10563	AAC		WLAN	8.25	± 9.6 %
10364		IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty	VV LAIN	0,20	I 9.0 %
10565	AAA	cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty	WLAN	8.45	± 9.6 %
10365			VVLAIN	0.40	± 9.0 %
40500			WLAN	0.40	± 9.6 %
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty	VVLAIN	8.13	I9.0 %
40507			36/1.6.51		106%
10567	AAA	IEEE 802.11g WIFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty	WLAN	8.00	± 9.6 %
40500			16/1 661	0.07	1000
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty	WLAN	8.37	±9.6 %
40500	1			0.40	1001/
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty	WLAN	8.10	± 9.6 %
40570				- 0.00	
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty	WLAN	8.30	± 9.6 %
	1	cycle)			
40574				4.00	106%
10571	AAA	IEEE 802.11b WIFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN	1.99	± 9.6 %
10572	AAA	IEEE 802.11b WIFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WIFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	WLAN	1.99	± 9.6 %
10572 10573	AAA AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN WLAN	1.99 1.98	± 9.6 % ± 9.6 %
10572 10573 10574	AAA AAA AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN WLAN WLAN	1.99 1.98 1.98	± 9.6 % ± 9.6 % ± 9.6 %
10572 10573	AAA AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty	WLAN WLAN	1.99 1.98	± 9.6 % ± 9.6 %
10572 10573 10574 10575	AAA AAA AAA AAA	IÉEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %
10572 10573 10574	AAA AAA AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty	WLAN WLAN WLAN	1.99 1.98 1.98	± 9.6 % ± 9.6 % ± 9.6 %
10572 10573 10574 10575 10576	AAA AAA AAA AAA AAA AAA AAA AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %
10572 10573 10574 10575	AAA AAA AAA AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty	WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %
10572 10573 10574 10575 10576 10577	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60 8.70	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %
10572 10573 10574 10575 10576	AAA AAA AAA AAA AAA AAA AAA AAA	IÉEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc dutyIEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty	WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %
10572 10573 10574 10575 10576 10577 10578	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60 8.70 8.49	$\begin{array}{r} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10572 10573 10574 10575 10576 10577	AAA	IÉEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc dutyIEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty	WLAN WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60 8.70	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %
10572 10573 10574 10575 10576 10577 10578 10579	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60 8.70 8.49 8.36	$\begin{array}{r} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10572 10573 10574 10575 10576 10577 10578	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty	WLAN WLAN WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60 8.70 8.49	$\begin{array}{r} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10572 10573 10574 10575 10576 10577 10578 10579	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60 8.70 8.49 8.36 8.76	$\begin{array}{r} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10572 10573 10574 10575 10576 10577 10578 10579	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty	WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60 8.70 8.49 8.36	$\begin{array}{r} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10572 10573 10574 10575 10576 10577 10578 10579 10580	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60 8.70 8.49 8.36 8.76	$\begin{array}{r} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10572 10573 10574 10575 10576 10577 10578 10579 10580	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60 8.70 8.49 8.36 8.76	$\begin{array}{r} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10572 10573 10574 10575 10576 10577 10578 10579 10580 10581	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60 8.70 8.49 8.36 8.76	$\begin{array}{r} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10572 10573 10574 10575 10576 10577 10578 10579 10580 10581	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60 8.70 8.49 8.36 8.76	$\begin{array}{r} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10572 10573 10574 10575 10576 10577 10578 10579 10580 10581 10583	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60 8.70 8.49 8.36 8.76 8.67	$\begin{array}{r} \pm 9.6 \% \\ \end{array}$
10572 10573 10574 10575 10576 10577 10578 10579 10580 10581 10582 10583	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60 8.70 8.49 8.36 8.76 8.35 8.67 8.59	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10572 10573 10574 10575 10576 10577 10578 10579 10580 10581 10583	AAA AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60 8.70 8.49 8.36 8.76 8.35 8.67 8.59	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %

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10588	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	±9.6 %
10589	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6%
10590	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	±9.6%
10591	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	WLAN	8.63	± 9.6 %
10592	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10593	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	WLAN	8,64	± 9.6 %
10594	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	WLAN	8.74	±9.6%
10595	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	WLAN	8.74	±9.6 %
10596	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	WLAN	8.71	± 9.6 %
10597	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	WLAN	8.72	±9.6 %
10598	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	WLAN	8.50	± 9.6 %
10599	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	WLAN	8.79	±9.6%
10600	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	WLAN	8.88	± 9.6 %
10601	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	WLAN	8.82	±9.6%
10602	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	WLAN	8.94	±9.6%
10603	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	WLAN	9.03	± 9.6 %
10604	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10605	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	WLAN	8.97	± 9.6 %
10606	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10607	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	WLAN	8.64	± 9.6 %
10608	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10609	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	WLAN	8.57	± 9.6 %
10610	AAB				
10610	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle) IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	WLAN	8.78	$\pm 9.6\%$
			WLAN	8.70	± 9.6 %
10612	AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10613	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	WLAN	8.94	± 9.6 %
10614	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	WLAN	8.59	± 9.6 %
10615	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10616	AAB	IEEE 802.11ac WIFI (40MHz, MCS0, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10617	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10618	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	WLAN	8.58	±9.6%
10619	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	WLAN	8.86	± 9.6 %
10620	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	WLAN	8.87	± 9.6 %
10621	AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	WLAN	8.77	±9.6 %
10622	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	WLAN	8.68	± 9.6 %
10623	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6 %
10624	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	WLAN	8.96	± 9.6 %
10625	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	WLAN	8.96	± 9.6 %
10626	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	WLAN	8.83	±9.6 %
10627	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6 %
10628	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	WLAN	8.71	± 9.6 %
10629	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	WLAN	8.85	± 9.6 %
10630	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	WLAN	8.72	± 9.6 %
10631	AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10632	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10633	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10634	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	WLAN	8.80	± 9.6 %
10635	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	WLAN	8.81	$\pm 9.6\%$
10636	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	WLAN	8.83	
10637	AAC	IEEE 802.11ac WIFI (160MHz, MCS0, 90pc duty cycle)			$\pm 9.6\%$
10638	AAC	IEEE 802.11ac WiFI (160MHz, MCS1, 90pc duty cycle)	WLAN	8.79	± 9.6 %
			WLAN	8.86	± 9.6 %
10639	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	WLAN	8.85	$\pm 9.6\%$
10640	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	WLAN	8.98	± 9.6 %
10641	AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	WLAN	9.06	±9.6%
10642	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	WLAN	9.06	±9.6%
10643	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	WLAN	8.89	±9.6 %
10644	AAC	IEEE 802.11ac WiFI (160MHz, MCS8, 90pc duty cycle)	WLAN	9.05	±9.6%
10645	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	WLAN	9.11	±9.6 %
10646	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	±9.6%
10647	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	±9.6 %
	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	±9.6 %
10648				0.04	
10652	AAD	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	± 9.6 %
		LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%) LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD LTE-TDD	6.91 7.42	± 9.6 % ± 9.6 %

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January 24, 2019

10655	AAE	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	±9.6 %
10658	AAA	Pulse Waveform (200Hz, 10%)	Test	10.00	$\pm 9.6\%$
10659	AAA	Pulse Waveform (200Hz, 20%)	Test	6.99	±9.6%
10660	AAA	Pulse Waveform (200Hz, 40%)	Test	3.98	± 9.6 %
10661	AAA	Pulse Waveform (200Hz, 60%)	Test	2.22	$\pm 9.6\%$
10662	AAA	Pulse Waveform (200Hz, 80%)	Test	0.97	± 9.6 %
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	± 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.

Calibration Laboratory of Schmid & Partner **Engineering AG** Zeughausstrasse 43, 8004 Zurich, Switzerland





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Schweizerischer Kalibrierdienst С

- Service suisse d'étalonnage
- Servizio svizzero di taratura
- S 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

Client PC Test Certificate No: EX3-7417_Feb19

CALIBRATION CERTIFICATE

Object	EX3DV4 - SN:7417					
Calibration procedure(s)	OA CAL-01 -9 - QA CAL-23 v5, QA CAL-25 v7 Calbration procedure for desimetric E-field probes					
Calibration date:	February 19, 2019	q				
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 NRP	SN: 104778	04-Apr-18 (No. 217-02672/02673)	Apr-19
Power sensor NRP-Z91	SN: 103244	04-Apr-18 (No. 217-02672)	Apr-19
Power sensor NRP-Z91	SN: 103245	04-Apr-18 (No. 217-02673)	Apr-19
Reference 20 dB Attenuator	SN: S5277 (20x)	04-Apr-18 (No. 217-02682)	Apr-19
DAE4	SN: 660	19-Dec-18 (No. DAE4-660_Dec18)	Dec-19
Reference Probe ES3DV2	SN: 3013	31-Dec-18 (No. ES3-3013_Dec18)	Dec-19
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-18)	In house check: Jun-20
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-18)	In house check: Jun-20
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-18)	In house check: Oct-19

	Name	Function	Signature
Calibrated by:	Claudio Leubler	Laboratory Technician	
			VE
Approved by:	Katja Pokovic	Technical Manager	Jel UG-
			Issued: February 20, 2019

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

Calibration Laboratory of

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



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Glossary:

TSL	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConvF	sensitivity in TSL / NORMx,y,z
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization φ	φ rotation around probe axis
Polarization 9	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis
• • • •	

Connector Angle information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- b) IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from handheld and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
- c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- NORMx, y, z: Assessed for E-field polarization 9 = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx, y, z are only intermediate values, i.e., the uncertainties of NORMx, y, z does not affect the E²-field uncertainty inside TSL (see below *ConvF*).
- NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of *ConvF*.
- *DCPx,y,z*: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- *PAR:* PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- *Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D* are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. *VR* is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm $(\mu V/(V/m)^2)^A$	0.54	0.43	0.53	± 10.1 %
DCP (mV) ⁸	98.7	97.4	100.4	

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dBõV	С	D dB	VR mV	Max dev.	Max Unc ^E (k=2)
0	CW	X	0.00	0.00	1,00	0.00	144.6	± 3.3 %	±4.7 %
		Y	0.00	0.00	1.00		149.7		
		Z	0.00	0.00	1.00		143.1		
10352-	Pulse Waveform (200Hz, 10%)	X	15.00	88.38	19.65	10.00	60.0	± 3.3 %	±9.6 %
AAA		Y	4.33	71.38	13.30		60.0		
		Z	7.40	77.44	14.95		60.0		
10353-	Pulse Waveform (200Hz, 20%)	X	15.00	92.19	20.43	6.99	80.0	± 2.2 %	± 9.6 %
AAA		Y	5.53	76.01	13.64		80.0		
		Z	15.00	85.74	16.43		80.0		
10354-	Pulse Waveform (200Hz, 40%)	X	15.00	107.68	26.54	3.98	95.0	± 1.3 %	± 9.6 %
AAA		Y	9.05	79.53	12.66		95.0		
		Z	15.00	90.71	17.41		95.0	l	
10355-	Pulse Waveform (200Hz, 60%)	X	15.00	127.17	33.83	2.22	120.0	± 1.2 %	± 9.6 %
AAA		Y	0.26	60.00	4.45		120.0		
		Z	15.00	99.84	20.30		120.0		
10387-	QPSK Waveform, 1 MHz	X	0.56	60.62	7.74	0.00	150.0	± 3.6 %	± 9.6 %
AAA		Y	0,42	60.00	4.69		150.0		
		Ž	0.44	60.00	5.48		150.0		
10388-	QPSK Waveform, 10 MHz	Х	2.27	69.09	16.46	0.00	150.0	± 1.3 %	± 9.6 %
AAA		Y	1.94	67.43	15.43		150.0		
		Z	2.06	68.27	16.05		150.0		
10396-	64-QAM Waveform, 100 kHz	X	3.15	72.71	19.95	3.01	150.0	± 2.5 %	± 9.6 %
AAA		Y	2.04	67.08	18.19		150.0		
		Z	2.07	66.03	16.88		150.0		
10399-	64-QAM Waveform, 40 MHz	X	3.52	67.53	16.10	0.00	150.0	± 2.4 %	± 9.6 %
AAA		Y	3.32	66.83	15.68		150.0		
		Ž	3.38	67.15	15.89		150.0		
10414-	WLAN CCDF, 64-QAM, 40MHz	X	4.80	65.90	15.74	0.00	150.0	± 4.4 %	± 9.6 %
AAA		Y	4.58	65.58	15.59		150.0		
		Z	4.60	65.76	15.65		150.0		

Note: For details on UID parameters see Appendix

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%.

^A The uncertainties of Norm X,Y,Z do not affect the E²-field uncertainty inside TSL (see Pages 5 and 6).

^B Numerical linearization parameter: uncertainty not required. ^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

	C1 fF	C2 fF	α V ⁻¹	T1 ms.V⁻²	T2 ms.V⁻¹	T3 ms	T4 V⁻²	T5 V ⁻¹	Т6
X	37.6	279.10	35.33	9.45	0.00	5.09	1.69	0.14	1.01
Y	29.6	227.60	37.50	5.19	0.43	5.04	0.00	0.16	1.01
Z	28.8	214.34	35.37	6.91	0.00	5.04	0.00	0.24	1.00

Sensor Model Parameters

Other Probe Parameters

Triangular
120.5
enabled
disabled
337 mm
10 mm
9 mm
2.5 mm
1 mm
1 mm
1 mm
1.4 mm

f (MHz) ^c	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	41.9	0.89	10.36	10.36	10.36	0.54	0.99	± 12.0 %
835	41.5	0.90	10.07	10.07	10.07	0.48	0.84	± 12.0 %
1750	40.1	1.37	8.39	8.39	8.39	0.38	0.85	± 12.0 %
1900	40.0	1.40	8.11	8.11	8.11	0.39	0.84	± 12.0 %
2300	39.5	1.67	7.73	7.73	7.73	0.30	0.93	± 12.0 %
2450	39.2	1.80	7.46	7.46	7.46	0.39	0.95	± 12.0 %
2600	39.0	1.96	7.17	7.17	7.17	0.31	1.05	± 12.0 %

Calibration Parameter Determined in Head Tissue Simulating Media

^c Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The Frequency validity above sub MHz of \pm 100 MHz only applies for DAST v4.4 and higher (see Page 2), else it is restricted to \pm 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is \pm 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to \pm 110 MHz.

measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (c and o) is restricted to ± 5%. The uncertainty is the RSS of

the ConvF uncertainty for indicated target tissue parameters. ⁶ Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

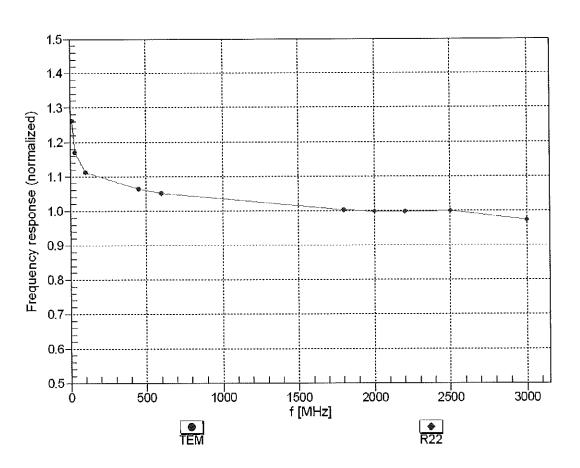
			-		-			
f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	55.5	0.96	10.35	10.35	10.35	0.63	0.84	± 12.0 %
835	55.2	0.97	10.11	10.11	10.11	0.43	0.84	± 12.0 %
1750	53.4	1.49	8.21	8.21	8.21	0.43	0.88	± 12.0 %
1900	53.3	1.52	7.86	7.86	7.86	0.43	0.87	± 12.0 %
2300	52.9	1.81	7.64	7.64	7.64	0.41	0.93	± 12.0 %
2450	52.7	1.95	7.51	7.51	7.51	0.40	0.95	± 12.0 %
2600	52.5	2.16	7.37	7.37	7.37	0.33	1.05	± 12.0 %

Calibration Parameter Determined in Body Tissue Simulating Media

^c Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

^F At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to \pm 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to \pm 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

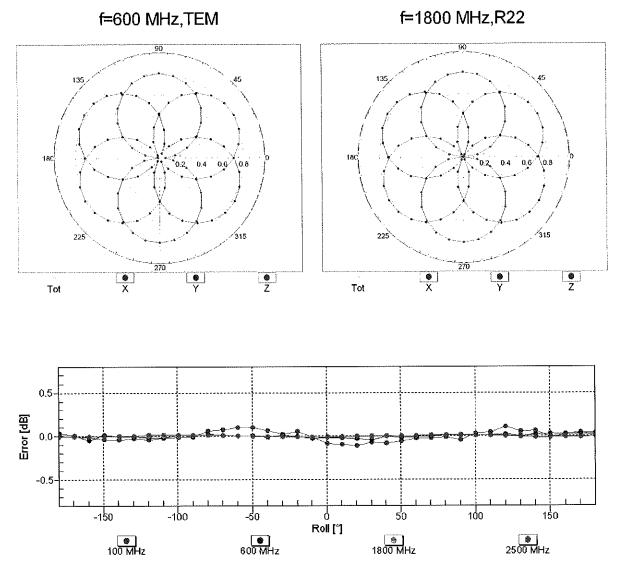
^G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than \pm 1% for frequencies below 3 GHz and below \pm 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.



Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)

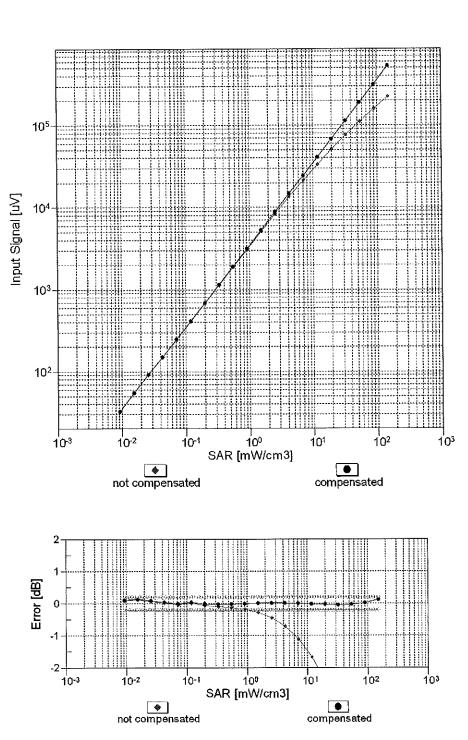
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

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Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

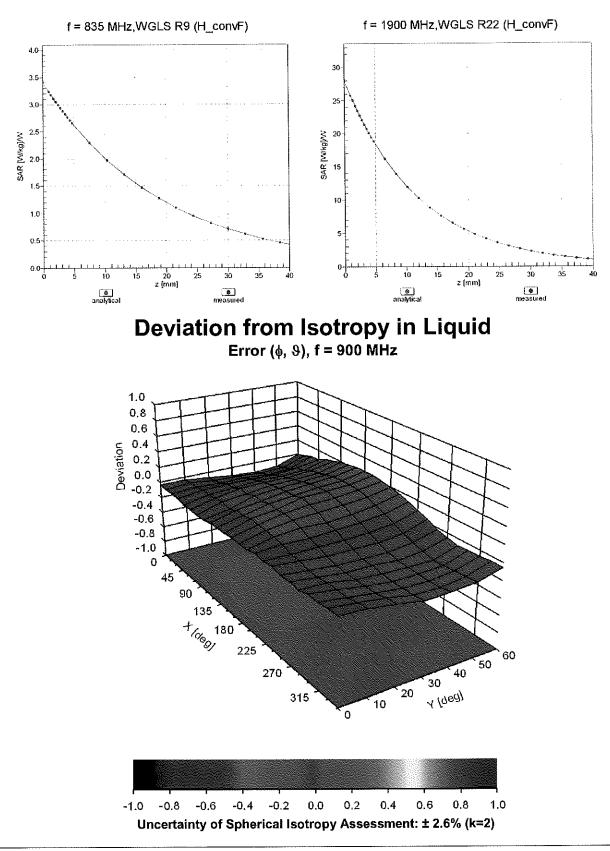
Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)



Dynamic Range f(SAR_{head}) (TEM cell , f_{eval}= 1900 MHz)

Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Certificate No: EX3-7417_Feb19



Conversion Factor Assessment

Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E (k=2)
0		CW	CW	0.00	±4.7 %
10010	CAA	SAR Validation (Square, 100ms, 10ms)	Test	10.00	±9.6 %
10011	CAB	UMTS-FDD (WCDMA)	WCDMA	2.91	± 9.6 %
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	± 9.6 %
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	± 9.6 %
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	±9.6%
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	± 9.6 %
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	± 9.6 %
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	± 9.6 %
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	±9.6 %
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	±9.6 %
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	± 9.6 %
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	± 9.6 %
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	± 9.6 %
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	±9.6 %
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	±9.6%
10033	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	Bluetooth	7.74	±9.6 %
10034	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	Bluetooth	4.53	±9.6 %
10035	CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	Bluetooth	3.83	±9.6 %
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	8.01	±9.6%
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	±9.6 %
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	± 9.6 %
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	±9.6 %
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	±9.6 %
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	±9.6 %
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	±9.6 %
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	±9.6 %
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	±9.6 %
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	± 9.6 %
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	± 9.6 %
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	±9.6 %
10061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	±9.6 %
10062	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	± 9.6 %
10063	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	±9.6 %
10064	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	±9.6 %
10065	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	±9.6 %
10066	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	±9.6 %
10067	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	±9.6 %
10068	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	±9.6 %
10069	CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	±9.6 %
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	±9.6 %
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	±9.6 %
10073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	±9.6 %
10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	±9.6 %
10075	CAB	IEEE 802.11g WiFI 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	±9.6 %
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	±9.6 %
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	±9.6%
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	±9.6 %
10082	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	AMPS	4.77	± 9.6 %
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	±9.6 %
10097	CAB	UMTS-FDD (HSDPA)	WCDMA	3.98	±9.6 %
10098	CAB	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	±9.6 %
10099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	±9.6 %
10100	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	±9.6 %
10101	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6 %
10102	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10103	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10104	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	± 9.6 %
			LTE-TDD		
10105	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)		10.01	± 9.6 %

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10109 CAG LTE-FDD 56.47 ± 96.% 10110 CAG LTE-FDD 56.75 ± 96.% 101112 CAG LTE-FDD 56.75 ± 96.% 10112 CAG LTE-FDD 56.75 ± 96.% 10113 CAG LTE-FDD 55.97 ± 96.% 10113 CAG LTE-FDD 55.97 ± 96.% 10113 CAG LTE-FDD 55.97 ± 96.% 10113 CAG LEEE 802.11n (HT Greenfield, 81.5Mbps, 80-CAM) WLAN 8.10 ± 98.5% 10116 CAG LEEE 802.11n (HT Meed, 135 Mbps, 80-CAM) WLAN 8.03 ± 80.5% 10113 CAG LEEE 802.11n (HT Meed, 135 Mbps, 80-CAM) WLAN 8.03 ± 80.5% 10114 CAG LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 40-CAM) WLAN 8.03 ± 80.5% 10114 CAG LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 40-CAM) LTE-FDD 6.32 ± 80.5% 10141 CAG LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 40-CAM) LTE-FDD <th></th> <th></th> <th></th> <th>-</th> <th></th> <th></th>				-		
10111 CAG LTE-EDD (SC-FDMA, 100% RE, 5 MHz, 16-CAM) LTE-FDD (S.59) ±9.8 % 10112 CAG LTE-EDD (SC-FDMA, 100% RE, 5 MHz, 64-CAM) LTE-FDD (S.59) ±9.8 % 10113 CAG LEEE 802.11n (HT Greenfield, 81 Mbps, 16-CAM) WLAN 8.10 ±3.8 % 10116 CAG LEEE 802.11n (HT Greenfield, 81 Mbps, 16-CAM) WLAN 8.46 ±3.8 % 10116 CAG LEEE 802.11n (HT Mseed, 13.5 Mbps, 16-CAM) WLAN 8.59 ±3.8 % 10117 CAG LEEE 802.11n (HT Mseed, 13.6 Mbps, 16-CAM) WLAN 8.59 ±3.8 % 10118 CAG LEEE 802.11n (HT Mseed, 13.6 Mbps, 16-CAM) WLAN 8.59 ±3.8 % 10141 CAE LTE-FDD (SC-FDMA, 100% KB, 13.MHz, 16-CAM) LTE-FDD 6.43 ±3.8 % 10142 CAE LTE-FDD (SC-FDMA, 100% KB, 3.MHz, 16-CAM) LTE-FDD 5.73 ±3.8 % 10142 CAE LTE-FDD (SC-FDMA, 100% KB, 3.MHz, 16-CAM) LTE-FDD 5.73 ±3.8 % 10144 CAE LTE-FDD (SC-FDMA, 100% KB, 3.MHz, 16-CAM) LTE-FDD <t< td=""><td>10109</td><td>CAG</td><td>LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)</td><td>LTE-FDD</td><td>6.43</td><td>±9.6%</td></t<>	10109	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6%
10112 CAG L'TE-FDD SC-FDAA 100F RS, 5 MHz, 64-OAM) L'TE-FDD 6.62 ±9.8 % 10113 CAG L'TE-FDD SC-FDAA 100F RS, 5 MHz, 64-OAM) ULAN 8.62 ±9.8 % 10114 CAC L'EEE B02.11n (HT Greenfield, 135 Mbps, BPSK) WLAN 8.46 ±9.8 % 10116 CAC L'EEE B02.11n (HT Greenfield, 135 Mbps, BPSK) WLAN 8.47 ±9.8 % 10116 CAC L'EEE B02.11n (HT Maxd, 31 Mbps, 80-OAM) WLAN 8.13 ±9.6 % 10118 CAC L'EEE B02.11n (HT Maxd, 31 Mbps, 80-OAM) WLAN 8.13 ±9.6 % 10118 CAC L'EE FDD (SC-FDMA, 100% RB, 15 MHz, 16-OAM) UTE-FDD 6.33 ±9.6 % 10141 CAE L'TE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-OAM) UTE-FDD 6.35 ±9.6 % 10142 CAE L'TE-FDD (SC-FDMA, 100% RB, 14 MHz, 16-OAM) UTE-FDD 6.35 ±9.6 % 10144 CAE L'TE-FDD (SC-FDMA, 100% RB, 14 MHz, 16-OAM) UTE-FDD 6.56 ±9.6 % 10144 CAE </td <td>10110</td> <td>CAG</td> <td></td> <td></td> <td></td> <td>and the second se</td>	10110	CAG				and the second se
10113 CAG LTE-FDD 6.82 ± 9.8 % 10114 CAC LEEE 802.11n (HT Greenfield, 13.5 Mbps, 19-GAM) WLAN 8.10 ± 9.8 % 10116 CAC LEEE 802.11n (HT Greenfield, 13.5 Mbps, 49-GAM) WLAN 8.10 ± 9.8 % 10117 CAC LEEE 802.11n (HT Mixed, 13.5 Mbps, 49-GAM) WLAN 8.57 ± 9.8 % 10118 CAC LEEE 802.11n (HT Mixed, 13.5 Mbps, 64-GAM) WLAN 8.59 ± 9.6 % 10140 CAC LEEE 802.11n (HT Mixed, 13.5 Mbps, 64-GAM) WLAN 8.51 ± 9.6 % 10141 CAC LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-GAM) LTE-FDD (S.53 ± 9.6 % 10142 CAE LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-GAM) LTE-FDD (S.53 ± 9.6 % 10144 CAE LTE-FDD (SC-FDMA, 100% RB, 14 MHz, 0PSK) LTE-FDD (S.51 ± 9.6 % 10144 CAE LTE-FDD (SC-FDMA, 100% RB, 14 MHz, 0PSK) LTE-FDD (S.61 ± 9.6 % 10144 CAE LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-CAM) LTE-FDD (S.62 ± 9.6 % 10144 CAE <td>10111</td> <td>CAG</td> <td></td> <td></td> <td></td> <td></td>	10111	CAG				
10114 CAC TEEE 802.11n (HT Generifield, 31 Mbps, 16-OAM) WLAN 8.46 ± 9.8 % 10116 CAC IEEE 802.11n (HT Generifield, 135 Mbps, 86-OAM) WLAN 8.46 ± 9.8 % 10116 CAC IEEE 802.11n (HT Mixed, 81 Mbps, 16-OAM) WLAN 8.17 ± 9.8 % 10118 CAC IEEE 802.11n (HT Mixed, 81 Mbps, 16-OAM) WLAN 8.13 ± 9.6 % 10118 CAC IEEE 802.11n (HT Mixed, 81 Mbps, 16-OAM) UTE-FDD 6.33 ± 9.6 % 10140 CAE LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-OAM) LTE-FDD 6.33 ± 9.6 % 10141 CAE LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 04-OAM) LTE-FDD 6.35 ± 9.6 % 10142 CAE LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 04-OAM) LTE-FDD 6.85 ± 9.6 % 10146 CAF LTE-FDD (SC-FDMA, 100% RB, 14 MHz, 16-OAM) LTE-FDD 6.86 ± 9.6 % 10147 CAE LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-OAM) LTE-FDD 6.42 ± 9.6 % 10146 CAF LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-OAM) <td< td=""><td>10112</td><td>CAG</td><td></td><td></td><td></td><td></td></td<>	10112	CAG				
10116 CAC IEEE 802.11n (HT Greenfield, 35 Mbps, 46-CAM) WLAN 8.46 ± 9.8 % 10117 CAC IEEE 802.11n (HT Moed, 135 Mbps, 92-SA) WLAN 8.07 ± 9.8 % 10118 CAC IEEE 802.11n (HT Moed, 135 Mbps, 94-CAM) WLAN 8.90 ± 9.8 % 10119 CAC IEEE 802.11n (HT Moed, 135 Mbps, 94-CAM) WLAN 8.90 ± 9.8 % 10140 CAE ITEF-DD (SC-FDMA, 100% RB, 15 MHz, 16-CAM) UTE-FDD 6.49 ± 9.8 % 10141 CAE ITEF-DD (SC-FDMA, 100% RB, 13 MHz, 16-CAM) UTE-FDD 5.3 ± 9.6 % 10142 CAE ITEF-DD (SC-FDMA, 100% RB, 14 MHz, 16-CAM) UTE-FDD 5.76 ± 9.6 % 10143 CAE ITEF-DD (SC-FDMA, 100% RB, 14 MHz, 16-CAM) UTE-FDD 6.41 ± 9.6 % 10146 CAE ITEF-DD (SC-FDMA, 100% RB, 12 MHz, 16-CAM) UTE-FDD 6.41 ± 9.6 % 10146 CAE ITEF-DD (SC-FDMA, 50% RB, 20 MHz, 16-CAM) ITEF-DD 6.42 ± 9.6 % 10146 CAE ITEF-DD (SC-FDMA, 50% RB, 20 MHz, 16-CAM) ITEF-	10113	CAG				
10116 CAC LEE 802.11n (LT Greenfield, 135 Mbps, 64-CAM) WLAN 8.15 ± 9.8 % 10117 CAC IEEE 802.11n (LT Mixed, 81 Mbps, 16-CAM) WLAN 8.07 ± 9.8 % 10118 CAC IEEE 802.11n (LT Mixed, 81 Mbps, 16-CAM) WLAN 8.13 ± 9.8 % 10140 CAE IEEE 802.11n (LT Mixed, 81 Mbps, 16-CAM) UTE-FDD 6.49 ± 9.8 % 10141 CAE ITE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-CAM) UTE-FDD 6.53 ± 9.6 % 10142 CAE ITE-FDD (SC-FDMA, 100% RB, 3 MHz, 04-CAM) UTE-FDD 6.85 ± 9.6 % 10142 CAE ITE-FDD (SC-FDMA, 100% RB, 14 MHz, 16-CAM) ITE-FDD 6.86 ± 9.6 % 10145 CAE ITE-FDD (SC-FDMA, 100% RB, 14 MHz, 16-CAM) ITE-FDD 6.87 ± 9.8 % 10147 CAE ITE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-CAM) ITE-FDD 6.86 ± 9.8 % 10147 CAE ITE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-CAM) ITE-FDD 6.61 ± 9.8 % 10146 CAE ITE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-CAM) <td>10114</td> <td>CAC</td> <td></td> <td></td> <td></td> <td></td>	10114	CAC				
10117 CAC LEEE 802.11n (LT Mixed, 13.5 Mbps, BPSK) WLAN 8.07 ± 9.8 % 10118 CAC LEEE 802.11n (LT Mixed, 135 Mbps, 64-OAM) WLAN 8.59 ± 9.8 % 10140 CAC LEEE 802.11n (LT Mixed, 135 Mbps, 64-OAM) UTE-FDD 6.49 ± 9.8 % 10141 CAE LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-OAM) LTE-FDD 5.73 ± 9.8 % 10142 CAE LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-OAM) LTE-FDD 5.73 ± 9.8 % 10143 CAE LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-OAM) LTE-FDD 6.65 ± 9.8 % 10144 CAE LTE-FDD (SC-FDMA, 100% RB, 1 A MHz, 16-OAM) LTE-FDD 6.61 ± 9.8 % 10146 CAF LTE-FDD (SC-FDMA, 100% RB, 1 A MHz, 16-OAM) LTE-FDD 6.42 ± 9.8 % 10147 CAF LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-OAM) LTE-FDD 6.42 ± 9.8 % 10146 CAF LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-OAM) LTE-FDD 6.42 ± 9.8 % 10147 CAG LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-OAM)	10115	CAC				
10118 CAC IEEE 802.11n (ITT Mixed, 81 Mbps, 16-CAM) WLAN 8.59 ± 9.6 % 10140 CAE LTEFEDD (SC-FDMA, 100% RB, 15 MHz, 16-CAM) LTEFEDD 6.49 ± 9.6 % 10141 CAE LTEFED (SC-FDMA, 100% RB, 31 MHz, 64-CAM) LTEFEDD 5.73 ± 9.6 % 10142 CAE LTEFED (SC-FDMA, 100% RB, 31 MHz, 64-CAM) LTEFEDD 5.73 ± 9.6 % 10143 CAE LTEFEDD (SC-FDMA, 100% RB, 31 MHz, 64-CAM) LTEFEDD 5.76 ± 9.6 % 10144 CAE LTEFEDD (SC-FDMA, 100% RB, 14 MHz, 16-CAM) LTEFEDD 5.76 ± 9.6 % 10147 CAF LTEFEDD (SC-FDMA, 100% RB, 14 MHz, 16-CAM) LTEFEDD 6.72 ± 9.6 % 10147 CAF LTEFEDD (SC-FDMA, 00% RB, 20 MHz, 16-CAM) LTEFEDD 6.42 ± 9.6 % 10146 CAE LTEFEDD (SC-FDMA, 00% RB, 20 MHz, 16-CAM) LTEFEDD 6.42 ± 9.6 % 10146 CAE LTEFEDD (SC-FDMA, 50% RB, 20 MHz, 16-CAM) LTEFEDD 6.42 ± 9.6 % 10147 CAE LTEFEDD (SC-FDMA, 50% RB, 20 MHz, 16-C	10116	CAC				
10110 CAC IEEE 802.11n (IFT Mixed, 135 Mbps, 64-CAM) WLAN 8.13 29.8 % 10140 CAE LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 44-CAM) LTE-FDD 6.53 29.8 % 10141 CAE LTE-FDD (SC-FDMA, 100% RB, 31 MHz, 16-CAM) LTE-FDD 6.73 29.8 % 10142 CAE LTE-FDD (SC-FDMA, 100% RB, 31 MHz, 16-CAM) LTE-FDD 6.86 29.8 % 10144 CAE LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-CAM) LTE-FDD 6.76 19.8 % 10144 CAF LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-CAM) LTE-FDD 6.72 19.8 % 10147 CAF LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-CAM) LTE-FDD 6.72 19.8 % 10147 CAF LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-CAM) LTE-FDD 6.42 9.8 6 % 10151 CAG LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 4C-CAM) LTE-FDD 6.76 19.8 % 10152 CAG LTE-FDD MA, 50% RB, 10 MHz, 46-CAM) LTE-FDD 6.76 19.8 % 10152 CAG LTE-FDD MA, 50% RB, 10 MHz, 47-CAM)	10117	CAC				
TOTAD CALE ITTE-FDD 6.49 ±9.8 % 10141 CALE ITTE-FDD 6.53 ±9.6 % 10142 CAE ITTE-FDD 100% RB, 3 MHz, QFSK) ITTE-FDD 6.53 ±9.6 % 10143 CAE ITTE-FDD 100% RB, 3 MHz, QFSK) ITTE-FDD 6.66 ±9.6 % 10144 CAE ITTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QFSK) ITTE-FDD 6.76 ±9.6 % 10145 CAF ITTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, GF2AM) ITTE-FDD 6.72 ±9.6 % 10146 CAF ITTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, GF2AM) ITTE-FDD 6.72 ±9.6 % 10147 CAF ITTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) ITTE-FDD 6.72 ±9.6 % 10151 CAG ITTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) ITE-FDD 6.72 ±9.6 % 10152 CAG ITE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) ITE-FDD 6.42 ±9.6 % 10153 CAG ITE-FDD (SC-FDMA, 50% RB, 10 MHz, GPSK) ITE-FDD 5.05 % ±9.6 %	10118					
10141 CAE ITE-FDD 6.53 ± 9.8 % 10142 CAE ITE-FDD SC-FDMA, 100% RB, 3 MHz, 16-CAM) ITE-FDD 6.73 ± 9.8 % 10143 CAE ITE-FDD SC-FDMA, 100% RB, 3 MHz, 16-CAM) ITE-FDD 6.85 ± 9.6 % 10144 CAE ITE-FDD SC-FDMA, 100% RB, 14 MHz, 16-CAM) ITE-FDD 5.76 ± 9.6 % 10146 CAF ITE-FDD SC-FDMA, 100% RB, 14 MHz, 16-CAM) ITE-FDD 6.71 ± 9.6 % 10147 CAF ITE-FDD (SC-FDMA, 00% RB, 14 MHz, 16-CAM) ITE-FDD 6.72 ± 9.6 % 10147 CAF ITE-FDD (SC-FDMA, 60% RB, 20 MHz, 64-CAM) ITE-FDD 6.60 ± 9.6 % 10151 CAG ITE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-CAM) ITE-FDD 5.76 ± 9.6 % 10152 CAG ITE-FDD (SC-FDMA, 50% RB, 10 MHz, 0FSK) ITE-FDD 6.60 ± 9.6 % 10153 CAG ITE-FDD (SC-FDMA, 50% RB, 10 MHz, 0FSK) ITE-FDD 5.75 ± 9.6 % 10154 CAG ITE-FDD (SC-FDMA, 50% RB, 10 MHz, 0F						
10142 CAE LTE-FDD 5.73 ± 9.6 % 10143 CAE LTE-FDD 6.53 ± 9.6 % 10144 CAE LTE-FDD 6.65 ± 9.6 % 10144 CAE LTE-FDD 6.65 ± 9.6 % 10146 CAF LTE-FDD 6.65 ± 9.6 % 10146 CAF LTE-FDD 6.67 ± 9.6 % 10147 CAF LTE-FDD 6.72 ± 9.6 % 10147 CAF LTE-FDD (5C-FDMA, 100% R8, 14 MHz, 16-QAM) LTE-FDD 6.72 ± 9.6 % 10149 CAE LTE-FDD (5C-FDMA, 50% R8, 20 MHz, 16-QAM) LTE-FDD 6.60 ± 9.6 % 10151 CAG LTE-FDD (5C-FDMA, 50% R8, 20 MHz, 16-QAM) LTE-FDD 6.60 ± 9.6 % 10152 CAG LTE-FDD (5C-FDMA, 50% R8, 10 MHz, 0PSK) LTE-FDD 5.73 ± 9.6 % 10153 CAG LTE-FDD (5C-FDMA, 50% R8, 10 MHz, 0PSK) LTE-FDD 5.78 ± 9.6 % 10156 CAG						
10143 CAE LTE-FDD 6.35 ± 9.6 % 10144 CAE LTE-FDD 6.65 ± 9.6 % 10145 CAF LTE-FDD 5.76 ± 9.6 % 10146 CAF LTE-FDD 5.76 ± 9.6 % 10146 CAF LTE-FDD 5.76 ± 9.6 % 10147 CAF LTE-FDD 6.72 ± 9.6 % 10147 CAF LTE-FDD 6.72 ± 9.6 % 10146 CAE LTE-FDD 6.72 ± 9.6 % 10150 CAE LTE-FDD (6.2 + 9.6 %) LTE-FDD 6.42 ± 9.6 % 10151 CAG LTE-TDD (6.2 + 9.6 %) LTE-FDD 6.42 ± 9.6 % 10152 CAG LTE-TDD (6.2 + 9.6 %) LTE-FDD 6.43 ± 9.6 % 10153 CAG LTE-FDD (6.2 + 9.6 %) LTE-FDD 6.43 ± 9.6 % 10156 CAG LTE-FDD (6.2 + 9.6 %) LTE-FDD 6.42 ± 9.6 %						
10144 CAE LTE-FDD 66.65 19.6% 10145 CAF LTE-FDD 6.67 19.6% 10146 CAF LTE-FDD 6.67 19.6% 10147 CAF LTE-FDD 65.76 19.6% 10147 CAF LTE-FDD 65.77 19.6% 10147 CAF LTE-FDD 65.72 19.6% 10149 CAE LTE-FDD 65.72 19.6% 10150 CAE LTE-FDD (5C-FDMA, 50% RB, 20 MHz, 16-OAM) LTE-FDD 6.60 19.6% 10151 CAG LTE-FDD (5C-FDMA, 50% RB, 20 MHz, 0FOAM) LTE-FDD 9.82 19.6% 10152 CAG LTE-FDD (5C-FDMA, 50% RB, 20 MHz, 0FOAM) LTE-FDD 5.75 19.6% 10153 CAG LTE-FDD (5C-FDMA, 50% RB, 10 MHz, 0FOK) LTE-FDD 5.75 19.6% 10156 CAG LTE-FDD (5C-FDMA, 50% RB, 10 MHz, 0FOK) LTE-FDD 5.79 19.6% 10156 CAG LTE-						
10146 CAF LTE-FDD S.76 ± 9.6% 10146 CAF LTE-FDD S.76 ± 9.6% 10147 CAF LTE-FDD S.76 ± 9.6% 10147 CAF LTE-FDD S.72 ± 9.6% 10147 CAF LTE-FDD S.72 ± 9.6% 10160 CAE LTE-FDD S.72 ± 9.6% 10161 CAG LTE-TDD S.78 B.20 MHz, 64-OAM LTE-FDD 9.22 ± 9.6% 10152 CAG LTE-TDD ICS-FDMA, 50% RB, 20 MHz, 16-OAM LTE-TDD 9.02 ± 9.6% 10153 CAG LTE-TDD ICS-FDMA, 50% RB, 20 MHz, 0FSK) LTE-FDD 10.05 ± 9.6% 10156 CAG LTE-FDD ICS-FDMA, 50% RB, 10 MHz, 16-OAM LTE-FDD 6.43 ± 9.6% 10156 CAG LTE-FDD ICS-FDMA, 50% RB, 10 MHz, 0PSK) LTE-FDD 6.42 ± 9.6% 10156 CAG LTE-FDD ICS-FDMA, 50% RB, 10 MHz, 0PSK) LTE-FDD 6.42 ± 9.						
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10147 CAF LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) LTE-FDD 6.42 19.6 % 10160 CAE LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM) LTE-FDD 6.40 19.6 % 10161 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) LTE-FDD 9.28 19.6 % 10152 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) LTE-TDD 9.29 19.6 % 10153 CAG LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM) LTE-TDD 10.05 19.6 % 10154 CAG LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK) LTE-FDD 6.43 19.6 % 10156 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK) LTE-FDD 6.49 19.6 % 10156 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 04-QAM) LTE-FDD 6.42 9.6 % 10158 CAG LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 04-QAM) LTE-FDD 6.42 9.6 % 10160 CAE LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 04-QAM) LTE-FDD 6.42 9.6 % 10161 CAE LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 04-Q						
10160 CAE LTE-FDD SC-FDMA, 50% RB, 20 MHz, 16-OAM) LTE-FDD 6.42 19.6% 10160 CAE LTE-FDD ISC-FDMA, 50% RB, 20 MHz, 0F-OAM) LTE-FDD 9.28 ± 9.6% 10161 CAG LTE-TDD ISC-FDMA, 50% RB, 20 MHz, 0F-OAM) LTE-TDD 9.28 ± 9.6% 10153 CAG LTE-TDD ISC-FDMA, 50% RB, 20 MHz, 0F-OAM) LTE-TDD 9.28 ± 9.6% 10154 CAG LTE-FDD ISC-FDMA, 50% RB, 10 MHz, 0F-OAM) LTE-TDD 5.75 ± 9.6% 10156 CAG LTE-FDD ISC-FDMA, 50% RB, 10 MHz, 16-OAM) LTE-FDD 5.77 ± 9.6% 10156 CAG LTE-FDD ISC-FDMA, 50% RB, 10 MHz, 16-OAM) LTE-FDD 6.43 ± 9.6% 10157 CAG LTE-FDD ISC-FDMA, 50% RB, 10 MHz, 16-OAM) LTE-FDD 6.66 ± 9.6% 10158 CAG LTE-FDD ISC-FDMA, 50% RB, 14 MHz, 16-OAM) LTE-FDD 6.66 ± 9.6% 10160 CAE LTE-FDD ISC-FDMA, 50% RB, 14 MHz, 16-OAM) LTE-FDD				****		
10150 CAE LTE-FDD 66.0 19.6 % 10151 CAG LTE-TDD (SC-FDMA, 50%, RB, 20 MHz, QPSK) LTE-TDD 9.28 ±9.6 % 10152 CAG LTE-TDD (SC-FDMA, 50%, RB, 20 MHz, 16-CAM) LTE-TDD 9.92 ±9.6 % 10153 CAG LTE-TDD (SC-FDMA, 50%, RB, 20 MHz, 64-CAM) LTE-TDD 5.7 5 ±9.6 % 10154 CAG LTE-FDD (SC-FDMA, 50%, RB, 10 MHz, 16-CAM) LTE-FDD 5.7 5 ±9.6 % 10155 CAG LTE-FDD (SC-FDMA, 50%, RB, 5 MHz, 16-CAM) LTE-FDD 5.7 9 ±9.6 % 10156 CAG LTE-FDD (SC-FDMA, 50%, RB, 5 MHz, 16-CAM) LTE-FDD 5.4 9.6 % 10161 CAG LTE-FDD (SC-FDMA, 50%, RB, 15 MHz, 16-CAM) LTE-FDD 5.82 ±9.6 % 10161 CAE LTE-FDD (SC-FDMA, 50%, RB, 15 MHz, 16-CAM) LTE-FDD 5.84 ±9.6 % 10162 CAE LTE-FDD (SC-FDMA, 50%, RB, 15 MHz, 16-CAM) LTE-FDD 5.84 ±9.6 % 10166 CAF LTE-FDD (SC-FDMA, 50%, RB, 14 MHz, 20-SK) LTE-FDD 5.84 ±9.6 % 10166 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
10151 CAG LTE-TDD SC-FDMA, 50%, RB, 20 MHz, DPSK) LTE-TDD 9.28 ±9.6 % 10152 CAG LTE-TDD SC-FDMA, 50%, RB, 20 MHz, D-CAM) LTE-TDD 9.92 ±9.6 % 10153 CAG LTE-TDD SC-FDMA, 50%, RB, 20 MHz, D-CAM) LTE-TDD 10.05 ±9.6 % 10154 CAG LTE-FDD (SC-FDMA, 50%, RB, 10 MHz, QPSK) LTE-FDD 5.75 ±9.6 % 10156 CAG LTE-FDD (SC-FDMA, 50%, RB, 5 MHz, QPSK) LTE-FDD 5.79 ±9.6 % 10157 CAG LTE-FDD (SC-FDMA, 50%, RB, 5 MHz, 16-QAM) LTE-FDD 6.49 ±9.6 % 10158 CAG LTE-FDD (SC-FDMA, 50%, RB, 5 MHz, 16-QAM) LTE-FDD 6.56 ±9.6 % 10160 CAE LTE-FDD (SC-FDMA, 50%, RB, 15 MHz, 16-QAM) LTE-FDD 6.84 ±9.6 % 10161 CAE LTE-FDD (SC-FDMA, 50%, RB, 14 MHz, 16-QAM) LTE-FDD 6.84 ±9.6 % 10162 CAF LTE-FDD (SC-FDMA, 50%, RB, 14 MHz, 16-QAM) LTE-FDD 6.84 ±9.6 % 10161 CAF L						
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10162 CAE LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM) LTE-FDD 6.58 ± 9.6 % 10168 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) LTE-FDD 5.46 ± 9.6 % 10168 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) LTE-FDD 6.21 ± 9.6 % 10168 CAF LTE-FDD (SC-FDMA, 178, 20 MHz, 16-QAM) LTE-FDD 6.79 ± 9.6 % 10170 CAE LTE-FDD (SC-FDMA, 178, 20 MHz, 16-QAM) LTE-FDD 5.73 ± 9.6 % 10171 AAE LTE-FDD (SC-FDMA, 178, 20 MHz, 16-QAM) LTE-FDD 6.49 ± 9.6 % 10172 CAG LTE-TDD (SC-FDMA, 178, 20 MHz, 64-QAM) LTE-FDD 9.48 ± 9.6 % 10173 CAG LTE-TDD (SC-FDMA, 178, 20 MHz, 64-QAM) LTE-FDD 10.25 ± 9.6 % 10174 CAG LTE-FDD (SC-FDMA, 178, 20 MHz, 46-QAM) LTE-FDD 5.72 ± 9.6 % 10175 CAG LTE-FDD (SC-FDMA, 178, 10 MHz, QPSK) LTE-FDD 5.73 ± 9.6 % 10176 CAG LTE-FDD (SC-FDMA, 178, 5 MHz, QPSK) LTE-FD	and the second se			LTE-FDD	6.43	±9.6 %
10166 CAF LTE-FDD 5.46 ± 9.6 % 10167 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM) LTE-FDD 6.21 ± 9.6 % 10168 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-FDD 6.79 ± 9.6 % 10169 CAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-FDD 5.73 ± 9.6 % 10170 CAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) LTE-FDD 6.49 ± 9.6 % 10171 AAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 04-QAM) LTE-FDD 9.21 ± 9.6 % 10172 CAG LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 04-QAM) LTE-FDD 9.21 ± 9.6 % 10173 CAG LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 04-QAM) LTE-FDD 9.21 ± 9.6 % 10175 CAG LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 04-QAM) LTE-FDD 5.72 ± 9.6 % 10176 CAG LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 04-QAM) LTE-FDD 5.73 ± 9.6 % 10177 CAI LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 04-QAM) LTE-FDD 5.73 ± 9.6 % <td></td> <td></td> <td>LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)</td> <td>LTE-FDD</td> <td>6.58</td> <td>±9.6 %</td>			LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	±9.6 %
10168 CAF LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM) LTE-FDD 6.79 ± 9.6 % 10169 CAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-FDD 5.73 ± 9.6 % 10170 CAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-FDD 6.52 ± 9.6 % 10171 AAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, G4-QAM) LTE-FDD 6.49 ± 9.6 % 10172 CAG LTE-TDD (SC-FDMA, 1 RB, 20 MHz, G4-QAM) LTE-TDD 9.21 ± 9.6 % 10173 CAG LTE-TDD (SC-FDMA, 1 RB, 20 MHz, G4-QAM) LTE-TDD 9.48 ± 9.6 % 10174 CAG LTE-TDD (SC-FDMA, 1 RB, 10 MHz, G4-QAM) LTE-FDD 5.72 ± 9.6 % 10176 CAG LTE-FDD (SC-FDMA, 1 RB, 5 MHz, GPSK) LTE-FDD 5.72 ± 9.6 % 10177 CAI LTE-FDD (SC-FDMA, 1 RB, 5 MHz, GPSK) LTE-FDD 5.72 ± 9.6 % 10178 CAG LTE-FDD (SC-FDMA, 1 RB, 5 MHz, GPSK) LTE-FDD 5.72 ± 9.6 % 10179 CAG LTE-FDD (SC-FDMA, 1 RB, 5 MHz, G4-QAM) LTE-FDD	10166	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD		
10169 CAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-FDD 5.73 ± 9.6 % 10170 CAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM) LTE-FDD 6.52 ± 9.6 % 10171 AAE LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) LTE-FDD 6.49 ± 9.6 % 10172 CAG LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) LTE-TDD 9.21 ± 9.6 % 10173 CAG LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM) LTE-TDD 9.24 ± 9.6 % 10174 CAG LTE-FDD (SC-FDMA, 1 RB, 20 MHz, G4-QAM) LTE-FDD 5.72 ± 9.6 % 10175 CAG LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK) LTE-FDD 5.73 ± 9.6 % 10176 CAG LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK) LTE-FDD 6.52 ± 9.6 % 10177 CAI LTE-FDD (SC-FDMA, 1 RB, 5 MHz, G4-QAM) LTE-FDD 6.50 ± 9.6 % 10178 CAG LTE-FDD (SC-FDMA, 1 RB, 5 MHz, G4-QAM) LTE-FDD 6.50 ± 9.6 % 10180 CAG LTE-FDD (SC-FDMA, 1 RB, 5 MHz, G4-QAM) LTE-FDD	10167	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)			
10100 CAE LTE-FDD (6.52) ± 9.6 % 10170 CAE LTE-FDD (6.52) ± 9.6 % 10171 AAE LTE-FDD (6.49) ± 9.6 % 10172 CAG LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-TDD 9.21 ± 9.6 % 10173 CAG LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK) LTE-TDD 9.48 ± 9.6 % 10174 CAG LTE-TDD (SC-FDMA, 1 RB, 20 MHz, G4-QAM) LTE-TDD 9.48 ± 9.6 % 10175 CAG LTE-FDD (SC-FDMA, 1 RB, 20 MHz, G4-QAM) LTE-FDD 5.72 ± 9.6 % 10176 CAG LTE-FDD (SC-FDMA, 1 RB, 10 MHz, G4-QAM) LTE-FDD 5.73 ± 9.6 % 10177 CAI LTE-FDD (SC-FDMA, 1 RB, 5 MHz, G4-QAM) LTE-FDD 5.73 ± 9.6 % 10178 CAG LTE-FDD (SC-FDMA, 1 RB, 5 MHz, G4-QAM) LTE-FDD 5.72 ± 9.6 % 10179 CAG LTE-FDD (SC-FDMA, 1 RB, 5 MHz, G4-QAM) LTE-FDD 5.72 ± 9.6 % 10180	10168	CAF				
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10102 O/LC LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM) LTE-FDD 6.50 ± 9.6 % 10183 AAD LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK) LTE-FDD 5.73 ± 9.6 % 10184 CAE LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK) LTE-FDD 6.51 ± 9.6 % 10185 CAE LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) LTE-FDD 6.51 ± 9.6 % 10186 AAE LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) LTE-FDD 6.50 ± 9.6 % 10187 CAF LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) LTE-FDD 5.73 ± 9.6 % 10188 CAF LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) LTE-FDD 6.52 ± 9.6 % 10189 AAF LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) LTE-FDD 6.50 ± 9.6 % 10193 CAC IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK) WLAN 8.09 ± 9.6 % 10194 CAC IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) WLAN 8.12 ± 9.6 % 10195 CAC IEEE 802.11n (HT Mixed, 6.5 Mbps, 64-QAM) WLAN 8.10 ± 9.6 % 10196 CAC <						
10183 AAB LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK) LTE-FDD 5.73 ± 9.6 % 10184 CAE LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK) LTE-FDD 6.51 ± 9.6 % 10185 CAE LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) LTE-FDD 6.51 ± 9.6 % 10186 AAE LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) LTE-FDD 6.50 ± 9.6 % 10187 CAF LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) LTE-FDD 5.73 ± 9.6 % 10188 CAF LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) LTE-FDD 6.52 ± 9.6 % 10189 AAF LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) LTE-FDD 6.50 ± 9.6 % 10189 AAF LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) LTE-FDD 6.50 ± 9.6 % 10193 CAC IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK) WLAN 8.09 ± 9.6 % 10194 CAC IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) WLAN 8.12 ± 9.6 % 10195 CAC IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK) WLAN<						
10104 CAC LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM) LTE-FDD 6.51 ± 9.6 % 10185 CAE LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) LTE-FDD 6.50 ± 9.6 % 10186 AAE LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) LTE-FDD 6.50 ± 9.6 % 10187 CAF LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) LTE-FDD 5.73 ± 9.6 % 10188 CAF LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) LTE-FDD 6.52 ± 9.6 % 10189 AAF LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) LTE-FDD 6.50 ± 9.6 % 10193 CAC IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK) WLAN 8.09 ± 9.6 % 10194 CAC IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) WLAN 8.12 ± 9.6 % 10195 CAC IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) WLAN 8.10 ± 9.6 % 10196 CAC IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK) WLAN 8.13 ± 9.6 % 10197 CAC IEEE 802.11n (HT Mixed, 6.5 Mbps, 64-QA						
10100 O/L LTE-FDD Color ± 9.6 % 10186 AAE LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM) LTE-FDD 5.73 ± 9.6 % 10187 CAF LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) LTE-FDD 5.73 ± 9.6 % 10188 CAF LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) LTE-FDD 6.52 ± 9.6 % 10189 AAF LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) LTE-FDD 6.50 ± 9.6 % 10193 CAC IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK) WLAN 8.09 ± 9.6 % 10194 CAC IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) WLAN 8.12 ± 9.6 % 10195 CAC IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) WLAN 8.12 ± 9.6 % 10196 CAC IEEE 802.11n (HT Mixed, 6.5 Mbps, 64-QAM) WLAN 8.10 ± 9.6 % 10197 CAC IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.13 ± 9.6 % 10198 CAC IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.13 ± 9.6 %<						
10180 IVE LTE-FDD 5.73 ± 9.6 % 10187 CAF LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK) LTE-FDD 5.73 ± 9.6 % 10188 CAF LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM) LTE-FDD 6.52 ± 9.6 % 10189 AAF LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM) LTE-FDD 6.50 ± 9.6 % 10193 CAC IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK) WLAN 8.09 ± 9.6 % 10194 CAC IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) WLAN 8.12 ± 9.6 % 10195 CAC IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) WLAN 8.12 ± 9.6 % 10196 CAC IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) WLAN 8.10 ± 9.6 % 10196 CAC IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK) WLAN 8.13 ± 9.6 % 10197 CAC IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM) WLAN 8.13 ± 9.6 % 10198 CAC IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.27 ± 9.6 %						
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10100 Jun LTET B0 (2011) HT Greenfield, 6.5 Mbps, BPSK) WLAN 8.09 ± 9.6 % 10193 CAC IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) WLAN 8.12 ± 9.6 % 10194 CAC IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM) WLAN 8.12 ± 9.6 % 10195 CAC IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM) WLAN 8.21 ± 9.6 % 10196 CAC IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK) WLAN 8.10 ± 9.6 % 10197 CAC IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM) WLAN 8.13 ± 9.6 % 10198 CAC IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.27 ± 9.6 %					6.50	
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10198 CAC IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM) WLAN 8.27 ± 9.6 %						
10219 CAC IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK) WLAN 8.03 ± 9.6 %			IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)			
			IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	±9.6 %

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10220	CAC CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10221		IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	±9.6 %
10222		IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.06	±9.6 %
10223	CAC	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	±9.6 %
	CAC	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	±9.6 %
10225	CAB	UMTS-FDD (HSPA+)	WCDMA	5.97	± 9.6 %
		LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	±9.6 %
10227		LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	±9.6 %
10228	CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	±9.6 %
10229	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	±9.6 %
10230	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	±9.6 %
10231	CAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	±9.6 %
10232	CAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	±9.6 %
	CAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	±9.6 %
10234	CAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	±9.6 %
10235	CAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	±9.6 %
10236	CAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	±9.6 %
10237	CAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	±9.6 %
10238	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	±9.6%
10239	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	±9.6 %
10240	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	±9.6 %
10241	CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	±9.6 %
10242	CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	± 9.6 %
10243	CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	± 9.6 %
10244	CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	±9.6 %
10245	CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	±9.6 %
10246	CAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	±9.6 %
10247	CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	± 9.6 %
10248	CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	± 9.6 %
10249	CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	±9.6 %
10250	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	±9.6 %
10251	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	±9.6 %
10252	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	±9.6 %
10253	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	±9.6 %
10254	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	± 9.6 %
10255	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	± 9.6 %
10256	CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	<u>± 9.6 %</u>
10257	CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	± 9.6 %
10258	CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	±9.6 %
10259	CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	±9.6 %
10260	CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	±9.6 %
10261	CAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	±9.6 %
10262		LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	±9.6 %
10263	CAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	± 9.6 %
10264	CAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	±9.6 %
10265	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10266	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	± 9.6 %
10267	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	±9.6 %
10268	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	±9.6 %
10269	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	± 9.6 %
10270	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	±9.6 %
10274	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	± 9.6 %
10275	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	±9.6 %
10277	CAA	PHS (QPSK)	PHS	11.81	± 9.6 %
10278	CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	PHS	11.81	±9.6 %
10279	CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	PHS	12.18	±9.6%
10290	AAB	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	±9.6%
10291	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	±9.6 %
10292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	±9.6 %
10293	AAB	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	±9.6 %
10295	AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	±9.6 %
10297	AAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	± 9.6 %
10298	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	±9.6 %
10299	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	±9.6 %
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10300	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10301	AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	WIMAX	12.03	±9.6 %
10302	AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	WIMAX	12.57	± 9,6 %
10303	AAA	IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	WIMAX	12.52	± 9.6 %
10304	AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	WIMAX	11.86	±9.6 %
10305	AAA	IEEE 802.16e WIMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15	WIMAX	15.24	± 9.6 %
10306	AAA	symbols) IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18	WIMAX	14.67	± 9.6 %
10307	AAA	symbols) IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	WIMAX	14.49	± 9.6 %
10308	AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	WiMAX	14.46	±9.6 %
10309	AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	Wimax	14.58	±9,6 %
10310	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	WIMAX	14.57	± 9.6 %
10311	AAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	±9.6%
10313	AAA	IDEN 1:3	IDEN	10.51	± 9.6 %
10314	AAA	IDEN 1:6	IDEN	13.48	± 9.6 %
10315	AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	WLAN	1.71	± 9.6 %
10316	AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	±9.6 %
10317	AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	WLAN	8.36	± 9.6 %
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	±9.6 %
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	± 9.6 %
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	± 9.6 %
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	±9.6 %
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	± 9.6 %
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	± 9.6 %
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	± 9.6 %
10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	±9.6%
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	± 9.6 %
10400	AAD	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	WLAN	8.37	±9.6 %
10401	AAD	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	WLAN	8.60	± 9.6 %
10402	AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	WLAN	8.53	± 9.6 %
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	± 9.6 %
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	± 9.6 %
10406	AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22 7.82	± 9.6 % ± 9.6 %
10410	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	LTE-TDD	1.02	
10414	AAA	WLAN CCDF, 64-QAM, 40MHz	Generic	8.54	± 9.6 %
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	WLAN	1.54	± 9.6 %
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	± 9.6 %
10417	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	WLAN	8.23	± 9.6 %
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	WLAN	8.14	± 9.6 %
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle,	WLAN	8.19	± 9.6 %
10110		Short preambule)			
		Short preambule)	WLAN	8.32	± 9.6 %
10422	AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN WLAN	8.32 8.47	± 9.6 % ± 9.6 %
10422 10423	AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN WLAN WLAN	8.32 8.47 8.40	± 9.6 % ± 9.6 % ± 9.6 %
10422 10423 10424	AAB AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.47	± 9.6 %
10422 10423 10424 10425	AAB AAB AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN WLAN	8.47 8.40	± 9.6 % ± 9.6 %
10422 10423 10424 10425 10426	AAB AAB AAB AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN WLAN WLAN	8.47 8.40 8.41	± 9.6 % ± 9.6 % ± 9.6 %
10422 10423 10424 10425 10426 10427	AAB AAB AAB AAB AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN WLAN WLAN WLAN	8.47 8.40 8.41 8.45	± 9.6 % ± 9.6 % ± 9.6 % ± 9.6 %
10422 10423 10424 10425 10426 10427 10430	AAB AAB AAB AAB AAB AAD	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	WLAN WLAN WLAN WLAN WLAN	8.47 8.40 8.41 8.45 8.41	$\begin{array}{c} \pm \ 9.6 \ \% \\ \pm \ 9.6 \ \% \end{array}$
10422 10423 10424 10425 10426 10427 10430 10431	AAB AAB AAB AAB AAB AAD AAD	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) LTE-FDD (OFDMA, 5 MHz, E-TM 3.1) LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	WLAN WLAN WLAN WLAN LTE-FDD LTE-FDD LTE-FDD	8.47 8.40 8.41 8.45 8.41 8.28	$\begin{array}{c} \pm \ 9.6 \ \% \\ \pm \ 9.6 \ \% \end{array}$
10422 10423 10424 10425 10426 10427 10430 10431 10432	AAB AAB AAB AAB AAB AAD AAD AAC	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) LTE-FDD (OFDMA, 5 MHz, E-TM 3.1) LTE-FDD (OFDMA, 10 MHz, E-TM 3.1) LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	WLAN WLAN WLAN WLAN LTE-FDD LTE-FDD	8.47 8.40 8.41 8.45 8.41 8.28 8.38	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10422 10423 10424 10425 10426 10427 10430 10431 10432 10433	AAB AAB AAB AAB AAB AAD AAD AAD AAC AAC	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) LTE-FDD (OFDMA, 5 MHz, E-TM 3.1) LTE-FDD (OFDMA, 10 MHz, E-TM 3.1) LTE-FDD (OFDMA, 15 MHz, E-TM 3.1) LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	WLAN WLAN WLAN WLAN LTE-FDD LTE-FDD LTE-FDD	8.47 8.40 8.41 8.45 8.41 8.28 8.38 8.38 8.34	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10422 10423 10424 10425 10426 10427 10430 10431 10432	AAB AAB AAB AAB AAB AAD AAD AAC	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) LTE-FDD (OFDMA, 5 MHz, E-TM 3.1) LTE-FDD (OFDMA, 10 MHz, E-TM 3.1) LTE-FDD (OFDMA, 15 MHz, E-TM 3.1) LTE-FDD (OFDMA, 20 MHz, E-TM 3.1) LTE-FDD (OFDMA, 20 MHz, E-TM 3.1) LTE-FDD (OFDMA, 20 MHz, E-TM 3.1) LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL	WLAN WLAN WLAN WLAN UTE-FDD LTE-FDD LTE-FDD LTE-FDD	8.47 8.40 8.41 8.45 8.41 8.28 8.38 8.38 8.34 8.34	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10422 10423 10424 10425 10426 10427 10430 10431 10432 10433 10434 10435	AAB AAB AAB AAB AAD AAD AAD AAC AAC AAA AAF	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) IEEFDD (OFDMA, 5 MHz, E-TM 3.1) ITE-FDD (OFDMA, 10 MHz, E-TM 3.1) ITE-FDD (OFDMA, 20 MHz, E-TM 3.1) ITE-FDD (OFDMA, 20 MHz, E-TM 3.1) ITE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	WLAN WLAN WLAN UTE-FDD LTE-FDD LTE-FDD LTE-FDD WCDMA LTE-TDD	8.47 8.40 8.41 8.45 8.41 8.28 8.38 8.34 8.34 8.60 7.82	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10422 10423 10424 10425 10426 10427 10430 10431 10432 10433 10434 10435 10447	AAB AAB AAB AAB AAD AAD AAD AAC AAC AAA AAF AAD	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) IEEFDD (OFDMA, 5 MHz, E-TM 3.1) ITE-FDD (OFDMA, 10 MHz, E-TM 3.1) ITE-FDD (OFDMA, 20 MHz, E-TM 3.1) ITE-FDD (OFDMA, 20 MHz, E-TM 3.1) ITE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9) ITE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	WLAN WLAN WLAN UTE-FDD LTE-FDD LTE-FDD LTE-FDD WCDMA LTE-TDD	8.47 8.40 8.41 8.45 8.41 8.28 8.38 8.34 8.34 8.60 7.82 7.56	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10422 10423 10424 10425 10426 10427 10430 10431 10432 10433 10434 10435	AAB AAB AAB AAB AAD AAD AAD AAC AAC AAA AAF	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK) IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM) IEEFDD (OFDMA, 5 MHz, E-TM 3.1) ITE-FDD (OFDMA, 10 MHz, E-TM 3.1) ITE-FDD (OFDMA, 20 MHz, E-TM 3.1) ITE-FDD (OFDMA, 20 MHz, E-TM 3.1) ITE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	WLAN WLAN WLAN UTE-FDD LTE-FDD LTE-FDD LTE-FDD WCDMA LTE-TDD	8.47 8.40 8.41 8.45 8.41 8.28 8.38 8.34 8.34 8.60 7.82	$\begin{array}{c} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$

10451	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	± 9.6 %
10456	AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	WLAN	8.63	± 9.6 %
10457	AAA	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	±9.6 %
10458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	± 9.6 %
10459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	± 9.6 %
10460	AAA	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	± 9.6 %
10461	AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10462	AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.30	± 9.6 %
10463	AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	± 9.6 %
10464	AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10465	AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10466	AAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL	LTE-TDD	8.57	± 9.6 %
10467	AAE	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10468	AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10469	AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.56	± 9.6 %
10470	AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10471	AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10472	AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	± 9.6 %
10473	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %
10474	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10475	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	± 9.6 %
10477	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.32	± 9.6 %
10478	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.57	± 9.6 %
10479	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %
10480	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.18	± 9.6 %
10481	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.45	± 9.6 %
10482	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.71	± 9.6 %
10483	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.39	± 9.6 %
10484	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.47	± 9.6 %
10485	AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.59	± 9.6 %
10486	AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.38	± 9.6 %
10487	AAE	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.60	± 9.6 %
10488	AAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.70	± 9.6 %
10489	AAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.31	± 9.6 %
10490	AAE	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.54	±9.6 %
10491	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	LTE-TDD	7.74	± 9.6 %

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10.100				0.44	100%
10492	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.41	±9.6 %
10493	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL	LTE-TDD	8.55	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10494	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL	LTE-TDD	7.74	± 9.6 %
		Subframe=2,3,4,7,8,9)		0.07	±9.6 %
10495	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LTE-TDD	8.37	±9.0%
10496	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL	LTE-TDD	8.54	± 9.6 %
10100		Subframe=2,3,4,7,8,9)			
10497	AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL	LTE-TDD	7.67	±9.6%
		Subframe=2,3,4,7,8,9)	LTE-TDD	0.40	
10498	AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	LIE-IDD	8.40	±9.6 %
10499	AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL	LTE-TDD	8.68	± 9.6 %
10400	,	Subframe=2,3,4,7,8,9)			
10500	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL	LTE-TDD	7.67	± 9.6 %
		Subframe=2,3,4,7,8,9)		0.44	
10501	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL	LTE-TDD	8.44	±9.6 %
10502	AAB	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL	LTE-TDD	8.52	±9.6 %
10002		Subframe=2,3,4,7,8,9)			
10503	AAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL	LTE-TDD	7.72	±9.6 %
		Subframe=2,3,4,7,8,9)		0.04	
10504	AAE	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL	LTE-TDD	8.31	± 9.6 %
10505	AAE	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL	LTE-TDD	8.54	±9.6 %
10000	AME	Subframe=2,3,4,7,8,9)		0.04	
10506	AAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL	LTE-TDD	7.74	± 9.6 %
		Subframe=2,3,4,7,8,9)		_	
10507	AAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL	LTE-TDD	8.36	± 9.6 %
10508	AAE	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL	LTE-TDD	8.55	±9.6 %
10506	AAC	Subframe=2,3,4,7,8,9)		0.00	
10509	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL	LTE-TDD	7.99	±9.6 %
		Subframe=2,3,4,7,8,9)			
10510	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL	LTE-TDD	8.49	± 9.6 %
10511	AAE	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL	LTE-TDD	8.51	± 9.6 %
10011		Subframe=2,3,4,7,8,9)		0.01	20.0 %
10512	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL	LTE-TDD	7.74	± 9.6 %
		Subframe=2,3,4,7,8,9)			
10513	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL	LTE-TDD	8.42	± 9.6 %
10514	AAF	Subframe=2,3,4,7,8,9) LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL	LTE-TDD	8.45	± 9.6 %
10514		Subframe=2,3,4,7,8,9)		0.40	1 0.0 /0
10515	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	WLAN	1.58	±9.6 %
10516	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	WLAN	1.57	± 9.6 %
10517	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	WLAN	1.58	± 9.6 %
10518	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	WLAN	8.23	± 9.6 %
10519	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	WLAN	8.39	± 9.6 %
10520	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	WLAN	8.12	± 9.6 %
10521	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	WLAN	7.97	± 9.6 %
10522	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10523	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	WLAN	8.08	± 9.6 %
10524	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	WLAN	8.27	± 9.6 %
10525	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10526	AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10527	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	WLAN	8.21	± 9.6 %
10528	AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10529	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	WLAN	8.36	± 9.6 %
10531	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	WLAN	8.43	± 9.6 %
10532	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	WLAN	8.29	$\pm 9.6\%$
10533	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	WLAN WLAN	8.38	± 9.6 % ± 9.6 %
10534	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	VVLAN	0.40	1 1 9.0 70

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10535	1 + - =		······		
	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10536	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	WLAN	8.32	±9.6 %
10537	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	WLAN	8.44	± 9.6 %
10538	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	WLAN	8.54	± 9.6 %
10540	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	WLAN	8.39	± 9.6 %
10541	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	WLAN	8.46	± 9.6 %
10542	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	WLAN	8.65	± 9.6 %
10543	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	WLAN	8.65	± 9.6 %
10544	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	WLAN	8.47	±9.6 %
10545	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	WLAN	8,55	± 9.6 %
10546	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	WLAN	8.35	± 9.6 %
10547	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	WLAN	8.49	± 9.6 %
10548	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	WLAN	8.37	± 9.6 %
10550	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	WLAN	8.38	± 9.6 %
10551	AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	WLAN	8.50	± 9.6 %
10552	AAB	IEEE 802.11ac WIFI (80MHz, MCS8, 99pc duty cycle)	WLAN	8.42	± 9.6 %
10553	AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	WLAN	8.45	± 9.6 %
10554	AAC	IEEE 802.11ac WIFI (160MHz, MCS0, 99pc duty cycle)	WLAN	8.48	± 9.6 %
10555	AAC	IEEE 802.11ac WIFi (160MHz, MCS1, 99pc duty cycle)	WLAN	8.47	± 9.6 %
10556	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	WLAN	8.50	± 9.6 %
10557	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	WLAN	8.52	± 9.6 %
10558	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	WLAN	8.61	± 9.6 %
10550					
	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	WLAN	8.73	± 9.6 %
10561	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	WLAN	8.56	± 9.6 %
10562	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	WLAN	8.69	± 9.6 %
10563	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	WLAN	8.77	±9.6 %
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty	WLAN	8.25	±9.6 %
		cycle)			
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty	WLAN	8.45	± 9.6.%
		cycle)			
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty	WLAN	8.13	± 9.6 %
		cycle)			
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty	WLAN	8.00	± 9.6 %
		cycle)			
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty	WLAN	8.37	± 9.6 %
		cycle)			
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty	WLAN	8.10	± 9.6 %
		cycle)			
10570) AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty	WLAN	8.30	± 9.6 %
		cycle)			
10571					
	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	WLAN	1.99	±9.6 %
10572	AAA		WLAN WLAN	1.99	± 9.6 % ± 9.6 %
10572 10573		IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	WLAN	1.99	± 9.6 %
10573	AAA AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	WLAN WLAN	1.99 1.98	± 9.6 % ± 9.6 %
10573 10574	AAA AAA AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	WLAN WLAN WLAN	1.99 1.98 1.98	± 9.6 % ± 9.6 % ± 9.6 %
10573	AAA AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty	WLAN WLAN	1.99 1.98	± 9.6 % ± 9.6 %
10573 10574 10575	AAA AAA AAA AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59	$\begin{array}{c} \pm \ 9.6 \ \% \\ \pm \ 9.6 \ \% \end{array}$
10573 10574	AAA AAA AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty	WLAN WLAN WLAN	1.99 1.98 1.98	± 9.6 % ± 9.6 % ± 9.6 %
10573 10574 10575 10576	AAA AAA AAA AAA AAA AAA AAA AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60	$\begin{array}{r} \pm 9.6 \% \\ \end{array}$
10573 10574 10575	AAA AAA AAA AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty	WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59	$\begin{array}{c} \pm \ 9.6 \ \% \\ \pm \ 9.6 \ \% \end{array}$
10573 10574 10575 10576 10577	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60 8.70	$\begin{array}{r} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10573 10574 10575 10576	AAA AAA AAA AAA AAA AAA AAA AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty	WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60	$\begin{array}{r} \pm 9.6 \% \\ \end{array}$
10573 10574 10575 10576 10577 10577	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60 8.70 8.49	$\begin{array}{r} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10573 10574 10575 10576 10577	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60 8.70	$\begin{array}{r} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10573 10574 10575 10576 10577 10578 10579	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60 8.70 8.49 8.36	$\begin{array}{r} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10573 10574 10575 10576 10577 10577	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty	WLAN WLAN WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60 8.70 8.49	$\begin{array}{r} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10573 10574 10575 10576 10577 10578 10579 10580	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60 8.70 8.49 8.36 8.76	$\begin{array}{r} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10573 10574 10575 10576 10577 10578 10579	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty	WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60 8.70 8.49 8.36	$\begin{array}{r} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10573 10574 10575 10576 10577 10578 10579 10580 10581	AAA AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60 8.70 8.49 8.36 8.76 8.35	$\begin{array}{r} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10573 10574 10575 10576 10577 10578 10579 10580	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60 8.70 8.49 8.36 8.76	$\begin{array}{r} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10573 10574 10575 10576 10577 10578 10579 10580 10581	AAA AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60 8.70 8.49 8.36 8.76 8.35	$\begin{array}{r} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10573 10574 10575 10576 10577 10578 10579 10580 10581	AAA AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60 8.70 8.49 8.36 8.76 8.35	$\begin{array}{r} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10573 10574 10575 10576 10577 10578 10579 10580 10581	AAA AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60 8.70 8.49 8.36 8.76 8.35 8.67	$\begin{array}{r} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10573 10574 10575 10576 10577 10578 10579 10580 10581 10582 10583	AAA AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60 8.70 8.49 8.36 8.76 8.35 8.67 8.69	$\begin{array}{r} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$
10573 10574 10575 10576 10577 10578 10579 10580 10581 10582 10583	AAA AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle) IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle) IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	WLAN WLAN WLAN WLAN WLAN WLAN WLAN WLAN	1.99 1.98 1.98 8.59 8.60 8.70 8.49 8.36 8.76 8.35 8.67 8.59	$\begin{array}{r} \pm 9.6 \% \\ \pm 9.6 \% \end{array}$

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10588	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	WLAN	8.76	± 9.6 %
10589	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	WLAN	8.35	±9.6%
10590	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	WLAN	8.67	± 9.6 %
10591	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	WLAN	8.63	±9.6 %
10592	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10593	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	WLAN	8.64	±9.6 %
10594	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	WLAN	8.74	± 9.6 %
10595	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	WLAN	8.74	±9.6 %
10596	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	WLAN	8.71	±9.6 %
10597	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	WLAN	8.72	±9.6 %
10598	AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	WLAN	8.50	± 9.6 %
10599	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	WLAN	8.79	± 9.6 %
10600	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	WLAN	8.88	±9.6 %
10601	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	WLAN	8.82	±9.6 %
10602	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	WLAN	8.94	±9.6%
10603	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	WLAN	9.03	±9.6 %
10604	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	WLAN	8.76	±9.6 %
10605	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	WLAN	8.97	±9.6 %
10606	AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	WLAN	8.82	±9.6 %
10607	AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	WLAN	8.64	±9.6 %
10608	AAB	IEEE 802.11ac WIFi (20MHz, MCS1, 90pc duty cycle)	WLAN	8.77	±9.6 %
10609	AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	WLAN	8.57	±9.6%
10610	AAB	IEEE 802.11ac WIFi (20MHz, MCS3, 90pc duty cycle)	WLAN	8.78	±96%
10611	AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	WLAN	8.70	±9.6%
10612	AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10613	AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	WLAN	8.94	± 9.6 %
10614	AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	WLAN	8.59	± 9.6 %
10615	AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10616	AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10617	AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10618	AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	WLAN	8.58	± 9.6 %
10619	AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	WLAN	8.86	± 9.6 %
10620	AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	WLAN	8.87	± 9.6 %
10621	AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	WLAN	8.77	± 9.6 %
10622	AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	WLAN	8.68	± 9.6 %
10623	AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	WLAN	8.82	± 9.6 %
10624	AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	WLAN	8.96	±9.6 %
10625	AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	WLAN	8.96	±9.6%
10626	AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10627	AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	WLAN	8.88	± 9.6 %
10628	AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	WLAN	8.71	± 9.6 %
10629	AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	WLAN	8.85	± 9.6 %
10630	AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	WLAN	8.72	± 9.6 %
10631	AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	WLAN	8.81	± 9.6 %
10631	AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	WLAN	8.74	$\pm 9.6\%$
10632	AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	WLAN	8.83	± 9.6 %
10633	AAB	IEEE 802.11ac WiFI (80MHz, MCS8, 90pc duty cycle)	WLAN	8.80	±9.6%
10634	AAB	IEEE 802.11ac WiFI (80MHz, MCS8, 90pc duty cycle)	WLAN	8.81	
	AAB		WLAN		$\pm 9.6\%$
10636		IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)		8.83	$\pm 9.6\%$
10637	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	WLAN	8.79	±9.6%
10638	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	WLAN	8.86	± 9.6 %
10639	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	WLAN	8.85	± 9.6 %
10640	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	WLAN	8.98	± 9.6 %
10641	AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	WLAN	9.06	± 9.6 %
10642	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	WLAN	9.06	± 9.6 %
10643	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	WLAN	8.89	± 9.6 %
10644	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	WLAN	9.05	± 9.6 %
10645	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	WLAN	9.11	±9.6 %
10646	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	± 9.6 %
10647	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	LTE-TDD	11.96	± 9.6 %
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	± 9.6 %
10652	AAD	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	±9.6%
10653	AAD	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	± 9.6 %
10654	AAD	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	± 9.6 %

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10655	AAE	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	±9.6 %
10658	AAA	Pulse Waveform (200Hz, 10%)	Test	10.00	± 9.6 %
10659	AAA	Pulse Waveform (200Hz, 20%)	Test	6,99	±9.6 %
10660	AAA	Pulse Waveform (200Hz, 40%)	Test	3.98	±9.6 %
10661	AAA	Pulse Waveform (200Hz, 60%)	Test	2.22	$\pm 9.6\%$
10662	AAA	Pulse Waveform (200Hz, 80%)	Test	0.97	± 9.6 %
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	$\pm 9.6\%$

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

APPENDIX D: SAR TISSUE SPECIFICATIONS

Measurement Procedure for Tissue verification:

©

- 1) The network analyzer and probe system was configured and calibrated.
- The probe was immersed in the tissue. The tissue was placed in a nonmetallic container. Trapped air bubbles beneath the flange were minimized by placing the probe at a slight angle.
- 3) The complex admittance with respect to the probe aperture was measured
- 4) The complex relative permittivity ε can be calculated from the below equation (Pournaropoulos and Misra):

$$Y = \frac{j2\omega\varepsilon_{r}\varepsilon_{0}}{\left[\ln(b/a)\right]^{2}} \int_{a}^{b} \int_{0}^{a} \int_{0}^{\pi} \cos\phi' \frac{\exp\left[-j\omega r(\mu_{0}\varepsilon_{r}^{'}\varepsilon_{0})^{1/2}\right]}{r} d\phi' d\rho' d\rho$$

where Y is the admittance of the probe in contact with the sample, the primed and unprimed coordinates refer to source and observation points, respectively, $r^2 = \rho^2 + \rho'^2 - 2\rho\rho' \cos\phi'$, ω is the angular frequency, and $j = \sqrt{-1}$.

3 Composition / Information on ingredients 3.2 Mixtures Description: Aqueous solution with surfactants and inhibitors Declarable, or hazardous components: >1.0-4.9% CAS: 107-21-1 Ethanediol EINECS: 203-473-3 STOT RE 2, H373; Reg.nr.: 01-2119456816-28-0000 Acute Tox. 4, H302 Sodium petroleum sulfonate Eye Irrit. 2, H319 CAS: 68608-26-4 < 2.9% EINECS: 271-781-5 Reg.nr.: 01-2119527859-22-0000 Hexylene Glycol / 2-Methyl-pentane-2,4-diol Skin Irrit. 2, H315; Eye Irrit. 2, H319 CAS: 107-41-5 EINECS: 203-489-0 < 2.9% Reg.nr.: 01-2119539582-35-0000 CAS: 68920-66-1 Alkoxylated alcohol, > C16 < 2.0% NLP: 500-236-9 Aquatic Chronic 2, H411; Reg.nr.: 01-2119489407-26-0000 Skin Irrit. 2, H315; Eye Irrit. 2, H319 Additional information: For the wording of the listed risk phrases refer to section 16. Not mentioned CAS-, EINECS- or registration numbers are to be regarded as Proprietary/Confidential. The specific chemical identity and/or exact percentage concentration of proprietary components is withheld as a trade secret.

Figure D-I

Note: Liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

FCO	C ID: A3LSMF900F		SAR EVALUATION REPORT	SAMSUNG	Approved by: Quality Manager
Tes	t Dates:	DUT Type:			APPENDIX D:
6/17	7/19 - 7/24/19	Portable Handset			Page 1 of 3
2019 PC	TEST Engineering Laboratory, Ir	nc.			REV 21.2 M 12/05/2018

Schmid & Partner Engineering AG S peag Zeughausstrasse 43, 8004 Zurich, Switzerland Phone +41 44 245 9700, Fax +41 44 245 9779 info@speag.com, http://www.speag.com

Measurement Certificate / Material Test

Item Name	Body Tissue Simulating Liquid (MBBL600-6000V6)	
Product No.	SL AAM U16 BC (Batch: 181029-1)	
Manufacturer	SPEAG	

Measurement Method TSL dielectric parameters measured using calibrated DAK probe.

Target Parameters Target parameters as defined in the KDB 865664 compliance standard.

Test Condition Ambient Condition	n 22°C ; 30% humidity	
TSL Temperature		
Test Date	30-Oct-18	
Operator	CL	
Additional Infor	mation	
TSL Density		
TSL Heat-capaci	ly	

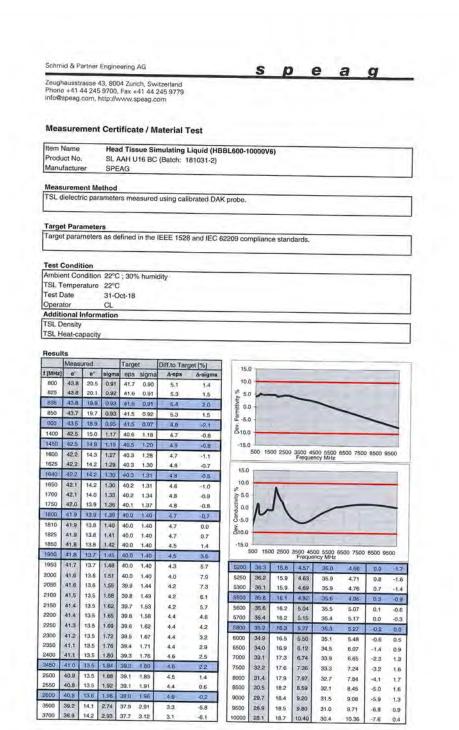
Results

	Measu	ured		Targe	et	Diff.to Tar	get [%]	1.12	-						
f [MHz]	e'	e"	sigma	eps	sigma	∆-eps	∆-sigma	15.0							
800	55.1	21.3	0.95	55.3	0.97	-0.4	-2.1	10.0	-	-			_		
825	55,1	20.8	0.96	55.2	0.98	-0.3	-2.0								
835	55.1	20.6	0.96	55.1	0.99	0.0	-2.5	× 5.0							
850	55.1	20.4	0.96	55.2	0.99	-0.1	-3.0	Permittivity 0.0	-	-			_		
900	55.0	19.7	0.98	55.0	1.05	0.0	-6.7	ma co						-	-
1400	54.2	15.6	1.22	54.1	1.28	0.2	-4.7	a∰ -5.0							
1450	54.1	15.4	1.24	54.0	1.30	0.2	-4.6	-10.0	-	-	1				-
1500	54,1	15.3	1.27	53.9	1.33	0.3	-4.5								
1550	54.0	15.1	1.30	53.9	1.36	0.2	-4.4	-15.0	500	1500	2500	3500	4500	550	0
1600	53.9	15.0	1.33	53.8	1.39	0.2	-4.3				Frequ	ency MHz		_	-
1625	53.9	14.9	1.35	53.8	1.41	0.3	-4.3		_	_					
1640	53.9	14.9	1.36	53.7	1.42	0.3	-4.2	15.0							_
1650	53.8	14.9	1.36	53.7	1.43	0.2	-4.9								
1700	53.8	14.8	1.40	53.6	1.46	0.4	-4.1	10.0		-	-	-			-
1750	53.7	14.7	1.43	53.4	1.49	0.5	-4.0	2º 5.0							
1800	53.7	14.6	1.46	53.3	1.52	0.8	-3.9	ivity			1				1
1810	53.7	14.6	1.47	53.3	1.52	0.8	-3.3	0.0 gr	1		1			/	
1825	53.7	14.6	1.48	53.3	1.52	0.8	-2.6	05.0	Λ	2	1		/		
1850	53.6	14.5	1.50	53.3	1.52	0.6	-1.3	Dev. Conductivity 0.0	14			6	/		
1900	53.5	14.5	1.53	53.3	1.52	0.4	0.7	-10.0	-	-	-	-			-
1950	53.5	14.5	1.57	53.3	1.52	0.4	3.3	-15.0	1	100	_				
2000	53.4	14.4	1.60	53.3	1.52	0.2	5.3		00	1500	2500	3500	4500	550	D
2050	53,4	14.4	1.64	53.2	1.57	0.3	4.5				Freque	ncy MHz	_		
2100	53.3	14.4	1.68	53.2	1.62	0.2	3.7								
2150	53.3	14.4	1.72	53.1	1.66	0.4	3.6	-					_	_	
2200	53.2	14.4	1.76	53.0	1.71	0.3	2.9	3500	51.1	15.5	3.02	51.3	3.31	-0.4	-8.8
2250	53.1	14.4	1.81	53.0	1.76	0.2	2.8	3700	50.8	15.7	3.24	51.1	3.55	-0.5	-8.8
2300	53.1	14.4	1.85	52.9	1.81	0.4	2.2	5200	48.1	18.2	5.27	49.0	5.30	-1.8	-0.6
2350	53.0	14.5	1.89	52.8	1.85	0.3	2.2	5250	48.0	18.3	5.34	49.0	5.36	-1.9	-0.4
	52.9	14.5	1.94	52.8	1.90	0.2	2.1	5300	47.9	18.4	5.41	48.9	5.42	-2.0	-0.2
2400		14.5	1.98	52.7	1.95	0.4	1.5	5500	47.5	18.6	5.70	48.6	5.65	-2.2	0.8
2400 2450	52.9	_				0.3	0.5	5600	47.3	18.8	5.84	48.5	5.77		0.0
2450 2500	52.8	14.6	2.03	52.6	2.02			10000	Contraction of the		10-10-50-51			-2.3	1.3
2450		_	2.03 2.07	52.6 52.6	2.02 2.09 2.16	0.3	-1.0	5700	47.1	18.9	5.99	48.3	5.88	-2.3	_

TSL Dielectric Parameters

Figure D-1 750 – 5800 MHz Body Tissue Equivalent Matter

FCC ID: A3LSMF900F	PCTEST	SAR EVALUATION REPORT	SAMSUNG	Approved by: Quality Manager
Test Dates:	DUT Type:			APPENDIX D:
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TSL Dielectric Parameters



FCC ID: A3LSM	IF900F		SAR EVALUATION REPORT	SAMSUNG	Approved by: Quality Manager
Test Dates:		DUT Type:			APPENDIX D:
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APPENDIX E: SAR SYSTEM VALIDATION

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

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

SAR System Freq. (MHz) Date Probe SN Probe SN Probe SN Cond. (or) Perm. (cr) CW VALIDATION MOD. ISENSTVITY MID. ISENSTVITY MID. ISENSTVITY MOD. ISENSTVITY MOD. ISENSTVITY MOD. ISENSTVITY MOD. ISENSTVITY MOD. ISENSTVITY MID. ISENSTVITY MID. ISENSTVITY MID. ISENSTVITY MID. ISENSTVITY MAS MAS		SAR System valuation Summary – Tg												
System (MHz) Date SN Probe Cal Point (o) (er) SENSITIVITY PROBE LINEARITY PROBE ISOTROP MOD. TYPE DUTY FACTOR PAR H 1750 6/19/2019 7406 1750 Head 1.362 39.781 PASS PASS PASS PASS N/A N/A N/A G 1900 8/9/2018 7410 1900 Head 1.429 38.607 PASS PASS PASS GMSK PASS N/A N/A E 2450 2/5/2019 3589 2450 Head 1.825 39.836 PASS PASS PASS OFDM/TDD PASS PASS N/A H 5250 6/10/2019 7406 5250 Head 4.63 36.2 PASS PASS PASS OFDM N/A PASS H 5600 6/10/2019 7406 5750 Head 5.15 33.901 PASS PASS PASS OFDM N/A	SVD	From		Probo			Cond Perm CW VALIDATION M		MOD.	VALIDATI	ON			
G 1900 8/9/2018 7410 1900 Head 1.429 38.607 PASS PASS PASS GMSK PASS N/A E 2450 2/5/2019 3589 2450 Head 1.825 39.836 PASS PASS PASS OFDM/TDD PASS PASS N/A H 5250 6/10/2019 7406 5250 Head 4.63 36.2 PASS PASS PASS OFDM N/A PASS H 5600 6/10/2019 7406 5600 Head 4.63 36.2 PASS PASS PASS OFDM N/A PASS H 5750 6/10/2019 7406 5750 Head 5.15 33.901 PASS PASS PASS OFDM N/A PASS G 835 8/29/2018 7410 835 Body 0.956 54.177 PASS PASS PASS N/A N/A N/A I 1750<			Date		Probe C	al Point			SENSITIVITY	-	-		-	PAR
E 2450 2/5/2019 3589 2450 Head 1.825 39.836 PASS PASS PASS OFDM/TDD PASS PASS E 2600 2/7/2019 3589 2600 Head 1.964 40.46 PASS PASS PASS TDD PASS N/A H 5250 6/10/2019 7406 5250 Head 4.63 36.2 PASS PASS PASS OFDM N/A PASS H 5600 6/10/2019 7406 5600 Head 4.63 36.2 PASS PASS PASS OFDM N/A PASS H 5750 6/10/2019 7406 5750 Head 5.15 33.901 PASS PASS PASS OFDM N/A PASS G 835 8/29/2018 7410 835 Body 0.956 54.177 PASS PASS PASS N/A N/A N/A I 1750 5/21/2	Н	1750	6/19/2019	7406	1750	Head	1.362	39.781	PASS	PASS	PASS	N/A	N/A	N/A
E 2600 2/7/2019 3589 2600 Head 1.964 40.46 PASS PASS TDD PASS N/A H 5250 6/10/2019 7406 5250 Head 4.63 36.2 PASS PASS PASS OFDM N/A PASS H 5600 6/10/2019 7406 5600 Head 4.63 36.2 PASS PASS PASS OFDM N/A PASS H 5750 6/10/2019 7406 5750 Head 5.15 33.901 PASS PASS PASS OFDM N/A PASS G 835 8/29/2018 7410 835 Body 0.956 54.177 PASS PASS PASS OFDM N/A N/A I 1750 5/21/2019 7357 1750 Body 1.442 55.384 PASS PASS PASS N/A N/A N/A J 1900 2/8/2019 7488 <td>G</td> <td>1900</td> <td>8/9/2018</td> <td>7410</td> <td>1900</td> <td>Head</td> <td>1.429</td> <td>38.607</td> <td>PASS</td> <td>PASS</td> <td>PASS</td> <td>GMSK</td> <td>PASS</td> <td>N/A</td>	G	1900	8/9/2018	7410	1900	Head	1.429	38.607	PASS	PASS	PASS	GMSK	PASS	N/A
H 5250 6/10/2019 7406 5250 Head 4.63 36.2 PASS PASS PASS OFDM NA PASS H 5600 6/10/2019 7406 5600 Head 4.63 36.2 PASS PASS PASS OFDM N/A PASS H 5750 6/10/2019 7406 5750 Head 5.15 33.901 PASS PASS PASS OFDM N/A PASS G 835 8/29/2018 7410 835 Body 0.956 54.177 PASS PASS PASS OFDM N/A PASS I 1750 5/21/2019 7357 1750 Body 1.442 55.384 PASS PASS N/A N/A N/A J 1900 2/8/2019 7488 1900 Body 1.571 52.538 PASS PASS N/A N/A N/A L 2300 11/6/2018 7308 2300 </td <td>E</td> <td>2450</td> <td>2/5/2019</td> <td>3589</td> <td>2450</td> <td>Head</td> <td>1.825</td> <td>39.836</td> <td>PASS</td> <td>PASS</td> <td>PASS</td> <td>OFDM/TDD</td> <td>PASS</td> <td>PASS</td>	E	2450	2/5/2019	3589	2450	Head	1.825	39.836	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
H 5600 6/10/2019 7406 5600 Head 4.63 36.2 PASS PASS PASS OFDM NA PASS H 5750 6/10/2019 7406 5750 Head 5.15 33.901 PASS PASS PASS OFDM N/A PASS G 835 8/29/2018 7410 835 Body 0.956 54.177 PASS PASS PASS GMSK PASS N/A N/A I 1750 5/21/2019 7357 1750 Body 1.442 55.384 PASS PASS PASS N/A N/A N/A G 1750 7/11/2019 7409 1750 Body 1.445 53.92 PASS PASS PASS N/A N/A N/A J 1900 2/8/2019 7488 1900 Body 1.571 52.538 PASS PASS PASS M/A N/A L 2300 11/6/2018 </td <td>E</td> <td>2600</td> <td>2/7/2019</td> <td>3589</td> <td>2600</td> <td>Head</td> <td>1.964</td> <td>40.46</td> <td>PASS</td> <td>PASS</td> <td>PASS</td> <td>TDD</td> <td>PASS</td> <td>N/A</td>	E	2600	2/7/2019	3589	2600	Head	1.964	40.46	PASS	PASS	PASS	TDD	PASS	N/A
H 5750 6/10/2019 7406 5750 Head 5.15 33.901 PASS PASS PASS OFDM N/A PASS G 835 8/29/2018 7410 835 Body 0.956 54.177 PASS PASS PASS GMSK PASS N/A N/A I 1750 5/21/2019 7357 1750 Body 1.442 55.384 PASS PASS PASS N/A N/A N/A G 1750 7/11/2019 7409 1750 Body 1.445 53.92 PASS PASS PASS N/A N/A N/A J 1900 2/8/2019 7488 1900 Body 1.571 52.538 PASS PASS GMSK PASS N/A N/A L 2300 11/6/2018 7308 2300 Body 1.894 51.522 PASS PASS N/A N/A N/A K 2600 3/6/2019<	Н	5250	6/10/2019	7406	5250	Head	4.63	36.2	PASS	PASS	PASS	OFDM	N/A	PASS
G 835 8/29/2018 7410 835 Body 0.956 54.177 PASS PASS PASS GMSK PASS N/A I 1750 5/21/2019 7357 1750 Body 1.442 55.384 PASS PASS PASS N/A N/A N/A G 1750 7/11/2019 7409 1750 Body 1.445 53.92 PASS PASS PASS N/A N/A N/A J 1900 2/8/2019 7488 1900 Body 1.571 52.538 PASS PASS PASS GMSK PASS N/A N/A L 2300 11/6/2018 7308 2300 Body 1.571 52.538 PASS PASS PASS M/A N/A N/A K 2400 11/6/2018 7308 2300 Body 2.039 50.67 PASS PASS PASS OFDM/TDD PASS PASS K 260	Н	5600	6/10/2019	7406	5600	Head	4.63	36.2	PASS	PASS	PASS	OFDM	N/A	PASS
I 1750 5/21/2019 7357 1750 Body 1.442 55.384 PASS PASS PASS NA NA NA G 1750 7/11/2019 7409 1750 Body 1.445 53.92 PASS PASS PASS NA NA NA NA J 1900 2/8/2019 7488 1900 Body 1.571 52.538 PASS PASS PASS GMSK PASS NA NA NA L 2300 11/6/2018 7308 2300 Body 1.894 51.522 PASS PASS PASS NA NA NA K 2450 3/6/2019 7417 2450 Body 2.224 50.17 PASS PASS PASS TDD PASS NA L 2600 11/5/2018 7308 2600 Body 2.165 51.098 PASS PASS PASS TDD PASS NA L	Н	5750	6/10/2019	7406	5750	Head	5.15	33.901	PASS	PASS	PASS	OFDM	N/A	PASS
G 1750 7/11/2019 7409 1750 Body 1.445 53.92 PASS PASS PASS N/A N/A N/A J 1900 2/8/2019 7488 1900 Body 1.571 52.538 PASS PASS PASS GMSK PASS N/A N/A N/A L 2300 11/6/2018 7308 2300 Body 1.894 51.522 PASS PASS PASS N/A N/A N/A K 2450 3/6/2019 7417 2450 Body 2.039 50.67 PASS PASS PASS OFDM/TDD PASS PASS PASS N/A N/A N/A K 2600 3/6/2019 7417 2600 Body 2.224 50.17 PASS PASS PASS TDD PASS N/A L 2600 11/5/2018 7308 2600 Body 2.165 51.098 PASS PASS PASS	G	835	8/29/2018	7410	835	Body	0.956	54.177	PASS	PASS	PASS	GMSK	PASS	N/A
J 1900 2/8/2019 7488 1900 Body 1.571 52.538 PASS PASS PASS GMSK PASS N/A L 2300 11/6/2018 7308 2300 Body 1.894 51.522 PASS PASS PASS N/A N/A N/A K 2450 3/6/2019 7417 2450 Body 2.039 50.67 PASS PASS PASS OFDM/TDD PASS PASS PASS OFDM/TDD PASS PASS N/A N/A N/A K 2600 3/6/2019 7417 2600 Body 2.224 50.17 PASS PASS PASS TDD PASS N/A L 2600 11/5/2018 7308 2600 Body 2.165 51.098 PASS PASS PASS TDD PASS N/A L 5250 10/29/2018 7308 5250 Body 5.511 48.77 PASS PASS	I	1750	5/21/2019	7357	1750	Body	1.442	55.384	PASS	PASS	PASS	N/A	N/A	N/A
L 2300 11/6/2018 7308 2300 Body 1.894 51.522 PASS PASS PASS NA NA NA K 2450 3/6/2019 7417 2450 Body 2.039 50.67 PASS PASS PASS OFDW/TDD PASS PASS K 2600 3/6/2019 7417 2600 Body 2.224 50.17 PASS PASS PASS TDD PASS N/A L 2600 11/5/2018 7308 2600 Body 2.165 51.098 PASS PASS PASS TDD PASS N/A L 5250 10/29/2018 7308 5250 Body 5.511 48.77 PASS PASS PASS OFDM N/A PASS L 5600 10/29/2018 7308 5600 Body 5.994 48.2 PASS PASS PASS OFDM N/A PASS L 5600 10/	G	1750	7/11/2019	7409	1750	Body	1.445	53.92	PASS	PASS	PASS	N/A	N/A	N/A
K 2450 3/6/2019 7417 2450 Body 2.039 50.67 PASS PASS PASS OFDM/TDD PASS PASS K 2600 3/6/2019 7417 2600 Body 2.224 50.17 PASS PASS PASS TDD PASS N/A L 2600 11/5/2018 7308 2600 Body 2.165 51.098 PASS PASS PASS TDD PASS N/A L 5250 10/29/2018 7308 5250 Body 5.511 48.77 PASS PASS PASS OFDM N/A PASS L 5600 10/29/2018 7308 5600 Body 5.994 48.2 PASS PASS OFDM N/A PASS	J	1900	2/8/2019	7488	1900	Body	1.571	52.538	PASS	PASS	PASS	GMSK	PASS	N/A
K 2600 3/6/2019 7417 2600 Body 2.224 50.17 PASS PASS PASS TDD PASS N/A L 2600 11/5/2018 7308 2600 Body 2.165 51.098 PASS PASS PASS TDD PASS N/A L 5250 10/29/2018 7308 5250 Body 5.511 48.77 PASS PASS PASS OFDM N/A PASS L 5600 10/29/2018 7308 5600 Body 5.994 48.2 PASS PASS OFDM N/A PASS	L	2300	11/6/2018	7308	2300	Body	1.894	51.522	PASS	PASS	PASS	N/A	N/A	N/A
L 2600 11/5/2018 7308 2600 Body 2.165 51.098 PASS PASS PASS TDD PASS N/A L 5250 10/29/2018 7308 5250 Body 5.511 48.77 PASS PASS PASS OFDM N/A PASS L 5600 10/29/2018 7308 5600 Body 5.994 48.2 PASS PASS OFDM N/A PASS	K	2450	3/6/2019	7417	2450	Body	2.039	50.67	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
L 5250 10/29/2018 7308 5250 Body 5.511 48.77 PASS PASS PASS OFDM N/A PASS L 5600 10/29/2018 7308 5600 Body 5.994 48.2 PASS PASS PASS OFDM N/A PASS	K	2600	3/6/2019	7417	2600	Body	2.224	50.17	PASS	PASS	PASS	TDD	PASS	N/A
L 5600 10/29/2018 7308 5600 Body 5.994 48.2 PASS PASS PASS OFDM N/A PASS	L	2600	11/5/2018	7308	2600	Body	2.165	51.098	PASS	PASS	PASS	TDD	PASS	N/A
	L	5250	10/29/2018	7308	5250	Body	5.511	48.77	PASS	PASS	PASS	OFDM	N/A	PASS
L 5750 10/29/2018 7308 5750 Body 6.219 47.96 PASS PASS PASS OFDM N/A PASS	L	5600	10/29/2018	7308	5600	Body	5.994	48.2	PASS	PASS	PASS	OFDM	N/A	PASS
	L	5750	10/29/2018	7308	5750	Body	6.219	47.96	PASS	PASS	PASS	OFDM	N/A	PASS

 Table E-1

 SAR System Validation Summary – 1g

	FCC ID: A3LSMF900F		SAR EVALUATION REPORT	SAMSUNG	Approved by: Quality Manager
	Test Dates:	DUT Type:			APPENDIX E:
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SAR	Freq.		Probe			Cond.	Perm.	CI	W VALIDATIO	1	MOD.	VALIDATI	ON
System	(MHz)	Date	SN	Probe C	al Point	(σ)	rem. (εr)	SENSITIVITY	PROBE LINEARITY	PROBE ISOTROPY	MOD. TYPE	DUTY FACTOR	PAR
I	1750	5/21/2019	7357	1750	Body	1.442	55.384	PASS	PASS	PASS	N/A	N/A	N/A
J	1900	2/8/2019	7488	1900	Body	1.571	52.538	PASS	PASS	PASS	GMSK	PASS	N/A
K	2300	3/6/2019	7417	2300	Body	1.86	51.114	PASS	PASS	PASS	N/A	N/A	N/A
K	2450	3/6/2019	7417	2450	Body	2.039	50.67	PASS	PASS	PASS	OFDM/TDD	PASS	PASS
К	2600	3/6/2019	7417	2600	Body	2.224	50.17	PASS	PASS	PASS	TDD	PASS	N/A
L	2600	11/5/2018	7308	2600	Body	2.165	51.098	PASS	PASS	PASS	TDD	PASS	N/A
L	5250	10/29/2018	7308	5250	Body	5.511	48.77	PASS	PASS	PASS	OFDM	N/A	PASS
L	5600	10/29/2018	7308	5600	Body	5.994	48.2	PASS	PASS	PASS	OFDM	N/A	PASS
L	5750	10/29/2018	7308	5750	Body	6.219	47.96	PASS	PASS	PASS	OFDM	N/A	PASS

Table E-2SAR System Validation Summary – 10g

NOTE: While the probes have been calibrated for both CW and modulated 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 FCC KDB Publication 865664 D01v01r04.

FCC ID: A3LSMF900F		SAR EVALUATION REPORT	SAMSUNG	Approved by: Quality Manager
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APPENDIX G POWER REDUCTION VERIFICATION

Per the May 2017 TCBC Workshop Notes, demonstration of proper functioning of the power reduction mechanisms is required to support the corresponding SAR configurations. The verification process was divided into two parts: (1) evaluation of output power levels for individual or multiple triggering mechanisms and (2) evaluation of the triggering distances for proximity-based sensors.

G.1 Power Verification Procedure

The power verification was performed according to the following procedure:

- 1. A base station simulator was used to establish a conducted RF connection and the output power was monitored. The power measurements were confirmed to be within expected tolerances for all states before and after a power reduction mechanism was triggered.
- 2. Step 1 was repeated for all relevant modes and frequency bands for the mechanism being investigated.
- 3. Steps 1 and 2 were repeated for all individual power reduction mechanisms and combinations thereof. For the combination cases, one mechanism was switched to a 'triggered' state at a time; powers were confirmed to be within tolerances after each additional mechanism was activated.

G.2 Distance Verification Procedure

The distance verification procedure was performed according to the following procedure:

- 1. A base station simulator was used to establish an RF connection and to monitor the power levels. The device being tested was placed below the relevant section of the phantom with the relevant side or edge of the device facing toward the phantom.
- 2. The device was moved toward and away from the phantom to determine the distance at which the mechanism triggers and the output power is reduced, per KDB Publication 616217 D04v01r02 and FCC Guidance. Each applicable test position was evaluated. The distances were confirmed to be the same or larger (more conservative) than the minimum distances provided by the manufacturer.
- 3. Steps 1 and 2 were repeated for low, mid, and high bands, as appropriate (see note below Table G-2 for more details).
- 4. Steps 1 through 3 were repeated for all distance-based power reduction mechanisms.

FCC ID: A3LSMF900F		SAR EVALUATION REPORT	SAMSUNG	Reviewed by: Quality Manager
Test Dates:	DUT Type:			APPENDIX G:
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G.3 Main Antenna Verification Summary

Mecha	nism(s)		(Conducted Power (d	Bm)
1st	2nd	Mode/Band	Un-triggered (Max)	Mechanism #1 (Reduced)	Mechanism #2 (Reduced)
Hotspot On		LTE FDD Band 25	23.99	20.25	
Grip		LTE FDD Band 25	23.97	19.44	
Hotspot On	Grip	LTE FDD Band 25	23.95	20.2	19.45
Grip	Hotspot On	LTE FDD Band 25	23.98	19.42	19.4
Hotspot On		LTE FDD Band 30	24.15	20.08	
Grip		LTE FDD Band 30	24.2	19.7	
Hotspot On	Grip	LTE FDD Band 30	24.13	20.07	19.71
Grip	Hotspot On	LTE FDD Band 30	24.22	19.75	19.72
Hotspot On		LTE FDD Band 66	24.13	19.6	
Grip		LTE FDD Band 66	24.12	19.06	
Hotspot On	Grip	LTE FDD Band 66	24.13	19.58	19.1
Grip	Hotspot On	LTE FDD Band 66	24.13	19.03	19.11
Hotspot On		LTE FDD Band 4	24.35	19.91	
Grip		LTE FDD Band 4	24.36	19.38	
Hotspot On	Grip	LTE FDD Band 4	24.28	19.85	19.32
Grip	Hotspot On	LTE FDD Band 4	24.3	19.35	19.38
Hotspot On		LTE FDD Band 2	23.79	20.28	
Grip		LTE FDD Band 2	23.79	19.47	
Hotspot On	Grip	LTE FDD Band 2	23.8	20.3	19.48
Grip	Hotspot On	LTE FDD Band 2	23.75	19.45	19.44
Hotspot On		LTE FDD Band 7	24.56	19.78	
Grip		LTE FDD Band 7	24.56	18.72	
Hotspot On	Grip	LTE FDD Band 7	24.55	19.78	18.75
Grip	Hotspot On	LTE FDD Band 7	24.56	18.71	18.72
Hotspot On		LTE TDD Band 41	23.25	21.65	
Grip		LTE TDD Band 41	23.25	20.19	
Hotspot On	Grip	LTE TDD Band 41	23.26	21.64	20.21
Grip	Hotspot On	LTE TDD Band 41	23.26	20.18	20.12
Hotspot On		LTE TDD Band 38	24.28	20.25	
Grip		LTE TDD Band 38	24.27	20.24	
Hotspot On	Grip	LTE TDD Band 38	24.29	20.22	20.21
Grip	Hotspot On	LTE TDD Band 38	24.28	20.24	20.21
Hotspot On		GPRS 1900	29.77	28.01	
Grip		GPRS 1900	29.79	27.18	
Hotspot On	Grip	GPRS 1900	29.63	28.08	27.21
Grip	Hotspot On	GPRS 1900	29.73	27.16	27.15
Hotspot On		UMTS 1750	24.37	20.31	
Grip		UMTS 1750	24.38	19.81	10.05
Hotspot On	Grip	UMTS 1750	24.4	20.32	19.85
Grip	Hotspot On	UMTS 1750	24.4	19.81	19.8
Hotspot On		UMTS 1900	24.27	20.68	
Grip		UMTS 1900	24.28	19.72	10 ==
Hotspot On	Grip	UMTS 1900	24.28	20.65	19.72
Grip	Hotspot On	UMTS 1900	24.27	19.71	19.69

Table G-1Power Measurement Verification for Main Antenna

	A PCTEST	SAR EVALUATION REPORT	SAMSUNG	Reviewed by:
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	ineacarement remite			<u> </u>	
Mechanism(s)	Test Condition	Band	Distance Meas	urements (mm)	Minimum Distance per
wiechanism(s)	Test condition	вапи	Moving Toward	Moving Away	Manufacturer (mm)
Grip	Body - Back Side	Mid	12	15	12
Grip	Body - Back Side	High	12	15	12
Grip	Body - Bottom Edge	Mid	14	17	14
Grip	Body - Bottom Edge	High	14	17	14

Table G-2 Distance Measurement Verification for Main Antenna Closed Configuration (Handset)

*Note: Mid band refers to: GSM1900, UMTS B2/4, LTE B2/4/25/66;

High band refers to: LTE B7, LTE B41, LTE B30, LTE B38.

Table G-3 Distance Measurement Verification for Main Antenna Open Configuration (Mini-Tablet)

Machanism(s)	Test Condition	Dand	Distance Meas	Minimum Distance per	
Mechanism(s)	Test Condition	Band	Moving Toward	Moving Away	Manufacturer (mm)
Grip	Body - Back Side	Mid	14	17	13
Grip	Body - Back Side	High	14	17	13
Grip	Body - Front Side	Mid	14	17	12
Grip	Body - Front Side	High	14	17	12
Grip	Body - Bottom Edge	Mid	17	22	17
Grip	Body - Bottom Edge	High	17	22	17

*Note: Mid band refers to: GSM1900, UMTS B2/4, LTE B2/4/25/66; High band refers to: LTE B7, LTE B41, LTE B30, LTEB38.

G.4 WIFI Verification Summary

F	Power Measurement Ve	rification WIF	۶I				
Mechanism(s)		Conducted Power (dBm)					
1st	Mode/Band	Un-triggered (Max)	Mechanism #1 (Reduced)				
Held-to-Ear	802.11b	19.55	15.26				
Held-to-Ear	802.11g	16.38	15.09				
Held-to-Ear	802.11n (2.4GHz)	16.01	14.92				
Held-to-Ear	802.11a	16.01	12.3				
Held-to-Ear	802.11n (5GHz, 20MHz BW)	16.06	12.64				
Held-to-Ear	802.11n (5GHz, 40MHz BW)	15.21	12.84				
Held-to-Ear	802.11ac (20MHz BW)	16.05	13.12				
Held-to-Ear	802.11ac (40MHz BW)	15.02	12.57				
Held-to-Ear	802.11ac (80MHz BW)	14.15	12.71				

Table G-4

*Note: 802.11ax and MIMO WIFI modes were not evaluated due to equipment limitations.

Table G-5 **Distance Measurement Verification for WIFI** Distance Measurements (mm) Minimum Distance per Mechanism(s) Test Condition Band Moving Toward Moving Away Manufacturer (mm) Head - Right Cheek Held-to-Ear 2.4GHz 57 72 50 Held-to-Ear Head - Right Cheek 5GHz 53 73 50 Held-to-Ear Head - Left Cheek 2.4GHz 58 72 50 Held-to-Far Head - Left Cheek 5GH7 58 72 EΟ

	Held-LO-Ear	Head - Left Cheek		SGHZ	58	12	50
F	CC ID: A3LSMF900F			SAR EV	ALUATION REPORT	SAMSUNG	Reviewed by: Quality Manager
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APPENDIX H: DOWNLINK LTE CA RF CONDUCTED POWERS

1.1 LTE Downlink Only Carrier Aggregation Test Reduction Methodology

SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number of component carriers (CCs) supported by the product implementation. Per April 2018 TCBC Workshop Notes, the following test reduction methodology was applied to determine the combinations required for conducted power measurements.

LTE DLCA Test Reduction Methodology:

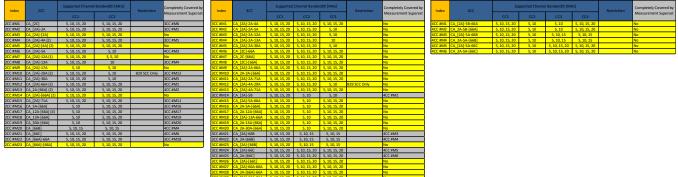
C

- The supported combinations were arranged by the number of component carriers in columns.
- Any limitations on the PCC or SCC for each combination were identified alongside the combination (e.g. CA_2A-2A-4A-12A, but B12 can only be configured as a SCC).
- Power measurements were performed for "supersets" (LTE CA combinations with multiple components carriers) and any "subsets" (LTE CA combinations with fewer component carriers) that were not completely covered by the supersets.
- Only subsets that have the exact same components as a superset were excluded for measurement.
- When there were certain restrictions on component carriers that existed in the superset that were not applied for the subset, the subset configuration was additionally evaluated.
- Both inter-band and intra-band downlink carrier aggregation scenarios were considered.
- Downlink CA combinations for SISO and 4x4 Downlink MIMO operations were measured independently, per May 2017 TCBC Workshop notes.

							abi	<u> </u>		LNG			(OIC	101011	10		~ '	01	0.0		or mg	, are	100110							
Index	200	Supported Chann	el Bandwidth (MHz)	Restriction	Completely Covered by Measurement Supercet	Index	300	Sup	orted Chan	nel Bandwidth [MHz]	Restriction	Completely Covered by Measurement	Index	400		Suppor	ted Channel		He]	Restriction	Completely Covered by Measurement	Index	scc		Supported	Channel Band	vidth (Mile)			Completely Covered by Veasurement Supervet
		001						001		002 003		Superset			CCL				CC4		Superset			CC1	002	cca	CC4		,	weaturement superset
	CA_2C	5, 10, 15, 20	5, 10, 15, 20		3CC #4		CA_2A-2A-6A			0, 15, 20 5, 10, 15, 20		4CC #1		CA_2A-2A-4A-SA				5, 10, 15, 20	5,10		No	SCC #1	CA_2A-SE-20A-66A	5, 10, 15, 20	5,10	5, 10		5, 10, 15, 20	,	60
	CA_2A-SA	5, 10, 15, 20	5, 10		4CC #1		CA_2A-2A-SA			0, 15, 20 5, 10		4CC #1		CA_2A-2A-4A-12A				5, 10, 15, 20	5,10	\$12 SCC Only	No	SCC #2	CA_2A-SE-CCA-CCA	5, 10, 15, 20	5,10	5, 10	5, 10, 15, 20	5, 10, 15, 20	,	60
	CA_2A-12A	5, 10, 15, 20	5, 20		200 #2		CA_2A-2A-12A					No		CA_2A-2A-5A-20A				5,10			No									
	CA_2A-12A	5, 10, 15, 20	10		300.49		CA_2C-66A			0, 15, 20 5, 10, 15, 20		No		CA_2A-2A-5A-66A				5,10			No									
200 #S	CA_2A-17A	5, 10	5, 10		No	ACC #5	CA_2A-2A-714			0, 15, 20 5, 10, 15, 20		No		CA_2A-58-30A	5, 10, 15,	20	5,10	5,10	5,10		SCC #1									
	CA_2A-3DA	5, 10, 15, 20	5, 10		3CC #14	3CC #5	CA_2A-4A-4A			0, 15, 20 5, 10, 15, 20		No	ACC IIG	CA_2A-SD-66A	5, 10, 15,	20	5,10	5,10	5, 10, 15, 20		SCC #1									
	CA_2A-66A (2)	5, 10, 15, 20			SCC #1		CA_2A-6A-SA			0, 15, 20 5, 10		4CC #1		CA_SD-3DA-66A	5, 10		5,10	5,10			SCC #1									
	CA_2A-71A		5, 10, 15, 20		3CC #10		CA_2A-4A-12A					No		CA_SD-66A-66A	5, 10				5, 10, 15, 20		SCC #2									
	CA_44-4A		5, 10, 15, 20		300.46		CA_2A-4A-12A					No		CA_SA-30A-66A-66A	5, 10			5, 10, 15, 20			No									
	CA_4A-SA (1)	5, 10, 15, 20	5, 10		4CC #1		CA_2A-4A-75		,20 5,3			No	4CC #10	CA_41E	15,20	Ĭ	15, 20	15,20	20		No									
	CA_4A-12A (4)	5, 10, 15, 20	5, 10		3CC #8	300 #1	CA_2A-58			S, 10 S, 10		ACC #S		· · · · · · · · · · · · · · · · · · ·					· · · · · · · · · · · · · · · · · · ·	·										
2CC #12	CA_4A-12A	5, 10, 15, 20	10		3CC #9		CA_2A-7A-12A			0, 15, 20 5, 10		No																		
	CA_4A-17A	5, 10	5, 10	817 SCC Only	No	200 #1	CA_2A-129		, 20			No																		
	CA_58	5,10	5, 10		SCC #1		CA_2A-12A-30		,20	5, 10 5, 10		No																		
	CA_SA-2SA	5,10	5, 10, 15, 20		No		CA_4A-4A-SA		20 5,3			No																		
200 #1	CA, XC	15,20	15,20		No		CA_SE-30A	5, 5		S, 10 S, 10		SCC #1																		
	CA_7A-7A (1)	5, 10, 15, 20	5, 10, 15, 20		No		CA_SE-GGA	5, 5		5, 10 5, 10, 15, 20		SCC #1																		
	CA_7A-12A	5, 10, 15, 20	5, 10		3CC #12	300 #1	CA_SA-30A-60	A 5, 5		5, 10 5, 10, 15, 20		4CC #9																		
2CC #21	CA_128	5	5, 10		3CC #13		CA_12A-66C	5, 5	5,1	0, 15, 20 5, 10, 15, 20		No																		
2CC #2	CA_12A-25A	5,10	5, 10, 15, 20		No	3CC #2	CA_30A-66A-6	GA 5, 2	5,3	0, 15, 20 5, 10, 15, 20		4CC #9																		
	CA_12A-30A	5,10	5, 10		3CC #14	3CC #2	CA_41D			15, 20 10, 15, 20		No																		
2CC #2	CA_41A-41A (1)	5, 10, 15, 20	5, 10, 15, 20		No		CA_41A-41C			0, 15, 20 5, 10, 15, 20		No																		
							CA_66D			0, 15, 20 5, 10, 15, 20		No																		
						3CC #2	CA_66A-66C	5, 30, 2	,20 5,3	0, 15, 20 5, 10, 15, 20		No																		

Table 1 – Example of Exclusion Table for SISO Configurations

Table 2 – Example of Exclusion Table for 4x4 Downlink MIMO Configurations



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1.2 LTE Downlink Only Carrier Aggregation Test Selection and Setup

SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number component carriers (CCs) supported by the product implementation. For those configurations required by April 2018 TCBC Workshop Notes, conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance to KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s) (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. Additional conducted output powers are measured with the downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.

Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for carrier aggregation configurations when the maximum average output power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive. All bands required for SAR testing per FCC KDB procedures were considered. Based on the measured maximum powers below, no additional SAR tests were required for DLCA SAR configurations.

General PCC and SCC configuration selection procedure

- PCC uplink channel, channel bandwidth, modulation and RB configurations were selected based on section C)3)b)ii) of KBD 941225 D05 V01r02. The downlink PCC channel was paired with the selected PCC uplink channel according to normal configurations without carrier aggregation.
- To maximize aggregated bandwidth, highest channel bandwidth available for that CA combination was selected for SCC. For inter-band CA, the SCC downlink channels were selected near the middle of their transmission bands. For contiguous intra-band CA, the downlink channel spacing between the component carriers was set to multiple of 300 kHz less than the nominal channel spacing defined in section 5.4.1A of 3GPP TS 36.521. For non-contiguous intra-band CA, the downlink channel spacing between the component carriers was set to be larger than the nominal channel spacing and provided maximum separation between the component carriers.
- All selected PCC and SCC(s) remained fully within the uplink/downlink transmission band of the respective component carrier.



Figure 1 DL CA Power Measurement Setup

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1.3 Downlink Carrier Aggregation RF Conducted Powers

Only combinations impacted by the permissive change addressed in this test report were required to be evaluated. Please refer to the original compliance evaluation RF Exposure Technical Report S/N: 1M1901280020-01-R1.A3L for a complete DLCA analysis for this application.

1.3.1 LTE Band 38 as PCC

	Table 1														
	Maximum Output Powers														
	PCC SCC 1										Po	wer			
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_38C	LTE B38	15	37825	2577.5	QPSK	1	0	37825	2577.5	LTE B38	15	37975	2592.5	24.34	24.31

1.3.2 LTE Band 41 as PCC

©

Table 2 Maximum Output Powers

					PCC						so	C 1				SCC 2				SCC 3		Po	ower
Combination	PCC Band	PCC BW [MHz]	PCC (UL) Ch.	PCC (UL) Freq. [MHz]	Mod.	PCC UL# RB	PCC UL RB Offset	PCC (DL) Channel	PCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	SCC Band	SCC BW [MHz]	SCC (DL) Channel	SCC (DL) Freq. [MHz]	LTE Tx.Power with DL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41A-41A (1)	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	LTE B41	20	41490	2680		-	-	-		-		-	23.68	23.63
CA_41A-41C	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680		-	-	-	23.74	23.63
CA_41C-41A	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	41490	2680		-		-	23.76	23.63
CA_41C-41C	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	23.74	23.63
CA_41A-41D	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	LTE B41	20	41094	2640.4	LTE B41	20	41292	2660.2	LTE B41	20	41490	2680	23.75	23.63
CA_41D-41A	LTE B41	20	39750	2506	QPSK	1	99	39750	2506	LTE B41	20	39948	2525.8	LTE B41	20	40146	2545.6	LTE B41	20	41490	2680	23.74	23.63

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APPENDIX I: IEEE 802.11AX RU SAR EXCLUSION

1.1 IEEE 802.11ax RU SAR Exclusion

To make the most efficient use of the additional available subcarriers (data tones), IEEE 802.11ax can utilize Orthogonal Frequency-Division Multiple Access (OFDMA) which divides the existing 802.11 channels into smaller subchannels called Resource Units (RUs). Possible RU sizes are: 26T, 52T, 106T, 242T, 484T and 996T.

Per April 2019 TCB Workshop Notes, 802.11ax was considered a higher order 802.11 mode when compared to a/b/g/n/ac to apply KDB Publication 248227 D01v02r02 for OFDM mode selection. Therefore, SAR tests were not required for 802.11ax based on the maximum allowed output powers of OFDM modes and the reported SAR values. Per FCC Guidance, maximum conducted powers were performed for each RU size to demonstrate that the output powers would not be higher than the other OFDM 802.11 modes.

1.2 IEEE 802.11ax RU Target Powers

		SISO (ANT	1) /in dBm			SISO (AN	IT2) /in dBm		MIMO (ALL) /in dBm				
Tones	2.4G	5G/20Mhz	5G/40Mhz	5G/80Mhz	2.4G	5G/20Mhz	5G/40Mhz	5G/80Mhz	2.4G	5G/20Mhz	5G/40Mhz	5G/80Mhz	
Tories					-	Ch & F	RU index		-				
26T	13	10	10	10	13	- 10	10	10	13	10	10	10	
201	Ch 13: -4	10	10	10	Ch 13: 3.5	10	10	10	Ch 12: 9 Ch 13: 2	10	10	10	
52T	14	12	11	10	14	12	11	10	14	12	11	10	
521	Ch 13: -2.5	12	11	10	Ch 13: 5.0	12		10	Ch 12: 10.5 Ch 13: 4	12	11	10	
106T	15	14	12	11	15	- 14	12	11	15	14	12	11	
1001	Ch 13: 1.5	14	12		Ch 13: 8.5	14	12	11	Ch 12: 13 Ch 13: 7	14	12	11	
	16				16				16				
242T	Ch 1: 10.5 Ch 2: 13.0 Ch 3: 15.0 Ch 10: 14.0 Ch 11: 11.0 Ch 12: 10.5 Ch 13: 5.0	15	13	12	Ch 11: 15.0 Ch 12: 12.5 Ch 13: 12.5	15	13	12	Ch 1: 14.5 Ch 11: 14.5 Ch 12: 12.5 Ch 13: 12.5	15	13	12	
484T			13	12			13	12			13	12	
4041			Ch 38: 12.0 Ch 102: 12.5	12			13	12			13	12	
996T				12				12				12	
5301				Ch 42: 11.0				12				12	

1.2.1 Maximum 802.11ax RU WLAN Output Power

(Upper tolerance: target +1.0dB)

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		SISO (ANT	1) /in dBm			SISO (AN	T2) /in dBm		MIMO (ALL) /in dBm				
Tones	2.4G	5G/20Mhz	5G/40Mhz	5G/80Mhz	2.4G	5G/20Mhz	5G/40Mhz	5G/80Mhz	2.4G	5G/20Mhz	5G/40Mhz	5G/80Mhz	
Tories						Ch & F	RU index						
26T	13	10	10	10	13	- 10	10	10	13	10	10	10	
201	Ch 13: -4	10	10	10	Ch 13: 3.5	10	10	10	Ch 12: 9 Ch 13: 2	10	10	10	
52T	14	10		10	14	10	11	10	14	12	11	10	
521	Ch 13: -2.5	12	11	10	Ch 13: 5.0	12	11	10	Ch 12: 10.5 Ch 13: 4	12	11	10	
1007	15	13	12	11	15	- 13	12	11	15	14	12	11	
106T	Ch 13: 1.5	13	12	11	Ch 13: 8.5	13	12	11	Ch 12: 13 Ch 13: 7	14	12	11	
	16				16				16				
242T	Ch 1: 10.5 Ch 2: 13.0 Ch 3: 15.0 Ch 10: 14.0 Ch 11: 11.0 Ch 12: 10.5 Ch 13: 5.0	13	13	12	Ch 11: 15.0 Ch 12: 12.5 Ch 13: 12.5	13	13	12	Ch 1: 14.5 Ch 11: 14.5 Ch 12: 12.5 Ch 13: 12.5	15	13	12	
484T			13 Ch 38: 12.0 Ch 102: 12.5	12			13	12			13	12	
996T				12 Ch 42: 11.0				12				12	

1.2.2 Reduced 802.11ax RU WLAN Output Power

(Upper tolerance: target +1.0dB)

1.2.3 Maximum 802.11ax RU WLAN Output Power During Conditions with Simultaneous 2.4 GHz WLAN and 5 GHz WLAN

		SISO (AN	Γ1) /in dBm			SISO (AN	IT2) /in dBm			MIMO (AL	L) /in dBm	
Tones	2.4G	5G/20Mhz	5G/40Mhz	5G/80Mhz	2.4G	5G/20Mhz	5G/40Mhz	5G/80Mhz	2.4G	5G/20Mhz	5G/40Mhz	5G/80Mhz
Tories		r.		1		Ch & F	RU index		1	1	1	r.
26T	13	10	10	10	13	- 10	10	10	13	10	10	10
201	Ch 13: -4	10	10	10	Ch 13: 3.5	10	10	10	Ch 12: 9 Ch 13: 2	10	10	10
52T	14	12	11	10	14	12	11	10	14	12	11	10
521	Ch 13: -2.5	12	11	10	Ch 13: 5.0	12		10	Ch 12: 10.5 Ch 13: 4	12	11	10
106T	15	13	12	11	15	- 13	12	11	15	14	12	11
1061	Ch 13: 1.5	13	12		Ch 13: 8.5	15	12		Ch 12: 13 Ch 13: 7	14	12	
	16				16				16			
242T	Ch 1: 10.5 Ch 2: 13.0 Ch 3: 15.0 Ch 10: 14.0 Ch 11: 11.0 Ch 12: 10.5 Ch 13: 5.0	13	13	12	Ch 11: 15.0 Ch 12: 12.5 Ch 13: 12.5	13	13	12	Ch 1: 14.5 Ch 11: 14.5 Ch 12: 12.5 Ch 13: 12.5	15	13	12
484T			13 Ch 38: 12.0 Ch 102: 12.5	12			13	12			13	12
996T				12				12				12
0001				Ch 42: 11.0				.2				

(Upper tolerance: target +1.0dB)

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1.2.4 Reduced 802.11ax RU WLAN Output Power During Conditions with Simultaneous 2.4 GHz WLAN and 5 GHz WLAN

		SISO (ANT	Γ1) /in dBm			SISO (AN	IT2) /in dBm		MIMO (ALL) /in dBm				
Tones	2.4G	5G/20Mhz	5G/40Mhz	5G/80Mhz	2.4G	5G/20Mhz	5G/40Mhz	5G/80Mhz	2.4G	5G/20Mhz	5G/40Mhz	5G/80Mhz	
Tones						Ch & F	RU index		-		-		
26T	13	10	10	10	13	- 10	10	10	13	10	10	10	
201	Ch 13: -4	10	10	10	Ch 13: 3.5	10	10	10	Ch 12: 9 Ch 13: 2	10	10	10	
52T	13	12	11	10	13	- 12	11	10	14	12	11	10	
521	Ch 13: -2.5	12		10	Ch 13: 5.0	12		10	Ch 12: 10.5 Ch 13: 4	12		10	
106T	13	13	12	11	13	- 13	12	11	15	14	12	11	
1001	Ch 13: 1.5	10	12	11	Ch 13: 8.5		12		Ch 12: 13 Ch 13: 7		12		
	13				13				16				
242T	Ch 1: 10.5 Ch 11: 11.0 Ch 12: 10.5 Ch 13: 5.0	13	13	12	Ch 12: 12.5 Ch 13: 12.5	13	13	12	Ch 1: 14.5 Ch 11: 14.5 Ch 12: 12.5 Ch 13: 12.5	15	13	12	
484T			13 Ch 38: 12.0	12			13	12			13	12	
			Ch 102: 12.5	10									
996T				12				12				12	
996T				Ch 42: 11.0				12					

(Upper tolerance: target +1.0dB)

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1.3 IEEE 802.11ax Measured Powers

Note: Please refer to Appendix I of RF Exposure Technical Report S/N: 1M1901280020-01-R1.A3L for original Antenna 1 measured powers.

	widXIIIIUI		2.11aX RU (Output Powe	= Aill Z	
RU Index	Tonnes	Ch. 1	Ch. 6	Ch. 11	Ch. 12	Ch. 13
		Average	Average	Average	Average	Average
0	26	13.73	13.97	13.78	13.70	4.41
4	26	13.64	13.79	13.97	13.98	4.22
8	26	13.98	13.78	13.91	13.52	4.23
37	52	14.91	14.75	14.91	14.83	5.92
38	52	14.93	14.89	14.63	14.74	5.98
40	52	14.79	14.98	14.76	14.80	5.52
53	106	15.95	15.89	15.98	15.91	9.46
54	106	15.97	15.77	15.92	15.88	9.02
61	242	15.49	16.91	15.99	13.24	13.16

Table 1	
Maximum 2.4 GHz 802.11ax RU Output Power – A	nt 2

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Table 2 Maximum 5 GHz 802.11ax RU Output Power – Ant 2 5GHz - 20MHz

	Tonnes	UNII 1				UNII 2A		UNII 2C			UNII 3		
RU Index		Ch. 36	Ch. 40	Ch. 48	Ch. 52	Ch. 56	Ch. 64	Ch. 100	Ch. 120	Ch. 144	Ch. 149	Ch. 157	Ch. 165
		Average											
0	26	10.84	10.77	10.85	10.99	10.99	10.81	10.94	10.89	10.99	10.97	10.89	10.78
4	26	10.95	10.98	10.99	10.76	10.78	10.96	10.98	10.99	10.44	10.99	10.68	10.51
8	26	10.63	10.70	10.80	10.91	10.91	10.79	10.66	10.53	10.75	10.96	10.75	10.82
37	52	12.85	12.81	12.90	12.97	12.99	12.85	12.96	12.99	12.99	12.54	12.76	12.73
38	52	12.99	12.99	12.93	12.72	12.74	12.92	12.62	12.55	12.98	12.75	12.91	12.91
40	52	12.75	12.82	12.72	12.50	12.98	12.71	12.67	12.63	12.81	12.91	12.55	12.63
53	106	14.82	14.87	14.80	14.61	14.97	14.83	14.96	14.93	14.97	14.99	14.93	14.99
54	106	14.73	14.79	14.73	14.46	14.98	14.82	14.87	14.75	14.80	14.91	14.99	14.99
61	242	15.85	15.88	15.83	15.52	15.62	15.88	15.99	15.94	15.85	15.99	15.99	15.97

5GHz - 40MHz

		UNII 1		UNII 2A			UNII 2C		UNII 3	
RU Index	Tonnes	Ch. 38	Ch. 46	Ch. 54	Ch. 62	Ch. 102	Ch. 118	Ch. 142	Ch. 151	Ch. 159
		Average								
0	26	10.72	10.79	10.98	10.65	10.98	10.96	10.80	10.88	10.80
8	26	10.80	10.83	10.95	10.96	10.61	10.67	10.99	10.99	10.55
17	26	10.99	10.70	10.99	10.96	10.87	10.83	10.96	10.81	10.69
37	52	11.99	11.90	11.60	11.86	11.50	11.75	11.86	11.96	11.99
40	52	11.98	11.78	11.98	11.98	11.74	11.84	11.99	11.73	11.72
44	52	11.92	11.96	11.62	11.62	11.54	11.60	11.72	11.85	11.96
53	106	12.75	12.78	12.98	12.50	12.89	12.99	12.67	12.98	12.73
54	106	12.86	12.80	12.97	12.99	12.80	12.88	12.98	12.99	12.99
56	106	12.76	12.67	12.93	12.97	12.99	12.98	12.98	12.87	12.71
61	242	13.94	13.90	13.72	13.82	13.99	13.62	13.87	13.87	13.67
62	242	13.62	13.84	13.70	13.66	13.68	13.73	13.82	13.99	13.78
65	484	13.85	13.92	13.68	13.72	13.95	13.99	13.70	13.99	13.99

5GHz - 80MHz

		UNII 1	UNII 2A		UNII 2C		UNII 3
RU Index	Tonnes	Ch. 42	Ch. 58	Ch. 106	Ch. 122	Ch. 138	Ch. 155
		Average	Average	Average	Average	Average	Average
0	26	10.81	10.91	10.92	10.99	10.85	10.78
17	26	10.65	10.96	10.63	10.81	10.89	10.97
36	26	10.66	10.91	10.96	10.73	10.82	10.71
37	52	10.99	10.65	10.60	10.85	10.95	10.90
44	52	10.75	10.98	10.87	10.90	10.99	10.66
52	52	10.87	10.67	10.62	10.99	10.57	10.73
53	106	11.71	11.71	11.67	11.78	11.99	11.94
56	106	11.91	11.99	11.94	11.99	11.97	11.70
60	106	11.46	11.70	11.72	11.78	11.71	11.91
61	242	12.93	12.95	12.99	12.99	12.79	12.99
62	242	12.99	12.79	12.98	12.62	12.72	12.99
64	242	12.91	12.67	12.63	12.52	12.61	12.82
65	484	12.73	12.91	12.80	12.95	12.93	12.99
66	484	12.87	12.98	12.98	12.99	12.99	12.66
67	996	12.71	12.53	12.93	12.93	12.97	12.99

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