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10168- CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	3.80	72,47	19.91	3.01	150.0	± 9.6 %
		Y	3.97	73.52	20.42		150.0	
		Z	3.59	72.78	20.23		150.0	
10169- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	Х	2.40	66.10	17.40	3.01	150.0	± 9.6 %
		Y	2.46	66.60	17.71		150.0	
		Z	2.33	66.05	17.51		150.0	
10170- CAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	2.86	70.22	19.21	3.01	150.0	± 9.6 %
		Y	3.07	71.47	19.80		150.0	
		Z	2.76	70.55	19.53		150.0	
10171- AAD	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	2.43	67.02	16.67	3.01	150.0	± 9.6 %
Craff ra		Y	2.55	67.67	16.96		150.0	
		Z	2.33	67.12	16.84		150.0	
10172- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	Х	3.22	76.35	23.22	6.02	65.0	± 9.6 %
No.	200 State Control of the Control of	Y	2.88	74.18	22.38		65.0	
		Z	2.74	74.43	22.80		65.0	
10173- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	4.36	80.46	22.94	6.02	65.0	± 9.6 %
		Y	4.63	81.45	23.36		65.0	
		Z	3.93	80.61	23.43		65.0	
10174- CAD	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	3.95	78.13	21.47	6.02	65.0	± 9.6 %
T CONTRACTOR	- somowest	Y	3.58	76.48	20.90		65.0	
		Z	3.41	77.60	21,68		65.0	
	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	2.38	65.87	17.19	3.01	150.0	± 9.6 %
	110000000000000000000000000000000000000	Y	2.43	66.33	17.47		150.0	
		Z	2.30	65.82	17.28		150.0	
10176- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	2.86	70.24	19.22	3.01	150.0	± 9.6 %
	V-50001000	Y	3.08	71.50	19.81		150.0	
		Z	2.76	70.57	19.54		150.0	
10177- CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	2.39	65.97	17.26	3.01	150.0	± 9.6 %
TNO-CONT.		Y	2.45	66.44	17.54		150.0	
		Z	2.32	65.91	17.35		150.0	
10178- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM)	X	2.85	70.12	19.14	3.01	150.0	±9.6 %
***************************************		Y	3.06	71.36	19.72		150.0	
		Ż	2.75	70.47	19.48		150.0	
10179- CAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	2.62	68.53	17.82	3.01	150.0	± 9.6 %
		Y	2.78	69.42	18.23		150.0	
CONTRACT.		Z	2.52	68.74	18.07	118-72	150.0	
10180- CAE	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM)	X	2.43	66.99	16.64	3.01	150.0	±9.6 %
		Y	2.55	67.64	16.93		150.0	
Mark 2000		Z	2.33	67.10	16.82		150.0	
10181- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	2.39	65.96	17.25	3.01	150.0	± 9.6 %
		Υ	2.44	66.43	17.54	0	150.0	
	A CONTRACTOR OF THE PROPERTY O	Z	2.31	65.90	17.34	- www.	150.0	
10182- CAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	2.84	70.10	19.13	3.01	150.0	± 9.6 %
		Y	3.05	71.33	19.71		150.0	
Octobros -		Z	2.75	70.45	19.47	and the same of	150.0	-
10183- AAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	2.43	66.97	16.63	3.01	150.0	± 9.6 %
AAC		W	2.55	07.00	10.00		150.0	
		Y	2.55	67.62	16.92		150.0	

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10184- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	2.39	65.99	17.27	3.01	150.0	± 9.6 %
		Y	2.45	66.47	17.56		150.0	
		Z	2.32	65.93	17.36		150.0	
10185- CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM)	X	2.85	70.16	19.17	3.01	150.0	± 9.6 %
		Y	3.07	71.40	19.75		150.0	
		Z	2.76	70.51	19.50		150.0	
10186-	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-	X	2.44	67.02	16.66	3.01	150.0	±9.6 %
AAD	QAM)	72000	2000	2011/16/25	100000000000000000000000000000000000000	5.01	100000000000000000000000000000000000000	I 5.0 %
		Y	2,56	67.67	16.95		150.0	
		Z	2.33	67.13	16.84		150.0	
10187- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	2.40	66.06	17.35	3.01	150.0	±9.6 %
		Y	2.46	66.54	17.64		150.0	
		Z	2.33	66.01	17.45		150.0	- 116
10188- CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	2.92	70.63	19.48	3.01	150.0	± 9.6 %
Orto	10 strain)	Y	3.15	71.97	20.11		150.0	7
		Z	2.82	70.99	- Contract C		The second section is a second second	
10100	LTE EDD (CO EDMA 4 DD 4 4 M		i accomitant programme in the company of the compan		19.83	2.04	150.0	1000
10189- AAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	×	2.48	67.32	16.90	3.01	150.0	± 9.6 %
		Y	2.60	68.01	17.21		150.0	
		Z	2.37	67.44	17.08		150.0	
10193- CAC	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.36	66.79	16.12	0.00	150.0	± 9.6 %
		Y	4.24	66.43	15.86		150.0	
		Z	4.25	66.88	16.06		150.0	
10194- CAC	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.50	67.02	16.25	0.00	150.0	± 9.6 %
ONO	10 spring	Y	4.38	66.66	16.00		150.0	
		Z	4.38	67.06	16.19		150.0	
10195-	IEEE 802.11n (HT Greenfield, 65 Mbps.	X	4.53	67.04		0.00		1000
CAC	64-QAM)	50%	10,000,00	C593/460_	16.27	0.00	150.0	±9.6 %
		Y	4.41	66.68	16.02		150.0	
		Z	4.40	67.05	16.19		150.0	
10196- CAC	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.34	66.79	16.11	0.00	150.0	± 9.6 %
		Y	4.22	66.42	15.84		150.0	0
		Z	4.23	66.84	16.03		150.0	
10197- CAC	IEEE 802.11n (HT Mixed, 39 Mbps, 16- QAM)	X	4.51	67.03	16.26	0.00	150.0	± 9.6 %
ONO	GD 1111)	Y	4.38	66.66	16.01		150.0	
		Z	4.38					
10198-	IEEE 802.11n (HT Mixed, 65 Mbps, 64-	X	4.53	67.05 67.04	16.19 16.27	0.00	150.0 150.0	± 9.6 %
CAC	QAM)	V	4.40	00.07	10.00		450.0	
		Y	4.40	66.67	16.02		150.0	
10219-	IEEE 802.11n (HT Mixed, 7.2 Mbps,	X	4.39	67.04 66.83	16.19	0.00	150.0	± 9.6 %
CAC	BPSK)	- 123	771702	200 100	4.80		197.5	
		Y	4.17	66.45	15.81		150.0	
		Z	4.19	66.90	16.01		150.0	
10220- CAC	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16- QAM)	X	4.50	66.99	16.24	0.00	150.0	± 9.6 %
-777		Y	4.38	66.63	16.00		150.0	
		Z	4.37	67.02	16.18		150.0	7
10221- CAC	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64- QAM)	Х	4.54	66.98	16.26	0.00	150.0	± 9.6 %
		Y	4.42	66.63	16.01		150.0	
		Z	4.41	67.00	16.19		150.0	
10222-	IEEE 802.11n (HT Mixed, 15 Mbps,	X	4.91	67.06		0.00		+069/
CAC	BPSK)	10000	I SCHOOL V	1112/111111	16.39	0.00	150.0	± 9.6 %
		Y	4.81	66.75	16.20		150.0	
		Z	4.81	67.01	16.35		150.0	

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CAC         QAM)           10225- CAB         UMTS-F           10226- CAA         LTE-TD           10227- CAA         LTE-TD           CAA         QPSK)           10228- CAB         LTE-TD           CAB         LTE-TD           10230- CAB         LTE-TD           CAB         QAM)           10231- CAD         LTE-TD           CAD         QAM)           10232- CAD         LTE-TD           CAD         QAM)           10234- CAD         LTE-TD           CAD         LTE-TD	EE 802.11n (HT Mixed, 90 Mbps, 16-	X	5.18	67.25	16.50	0.00	150.0	± 9.6 %
CAC QAM)  10225- CAB UMTS-F CAB  10226- CAA 16-QAM  10227- CAA 64-QAM  10228- CAA QPSK)  10229- CAB QAM)  10230- CAB QAM)  10231- CAB QAM)  10232- CAD QAM)  10233- CAD QAM)  10233- CAD QAM)  10234- CAD QAM)  10236- CAD LTE-TD CAD QAM)  10236- CAD LTE-TD CAD LTE-TD CAD QAM)		Y	5.07	66.94	16.31		150.0	
10225- CAB  10225- CAB  10226- CAA  16-QAM  10227- CAA  10227- CAA  10228- CAA  10228- CAA  10229- CAB  10229- CAB  10230- CAB  10231- CAB  10231- CAB  10231- CAD  10232- CAD  10233- CAD  10233- CAD  10234- CAD  10234- CAD  10235- CAD  10236- CAD  10236- CAD  10237-  LTE-TDI CAD  10237- LTE-TDI CAD  10237		Z	5.03	67,10	16.40		150.0	
10226- CAA 16-QAM  10227- CAA 64-QAM  10228- CAA QPSK)  10229- CAB QAM)  10230- CAB QAM)  10231- CAB QAM)  10231- CAD QAM)  10232- CAD QAM)  10233- CAD QAM)	EE 802.11n (HT Mixed, 150 Mbps, 64-M)	X	4.95	67.17	16.38	0.00	150.0	± 9.6 %
10226- CAA 16-QAM  10227- CAA 64-QAM  10228- CAA QPSK)  10229- CAB QAM)  10230- CAB QAM)  10231- CAB QAM)  10231- CAD QAM)  10232- CAD QAM)  10233- CAD QAM)		Y	4.85	66.86	16.19		150.0	
10226- CAA 16-QAM  10227- CAA 64-QAM  10228- CAA QPSK)  10229- CAB QAM)  10230- CAB QAM)  10231- CAB QAM)  10231- CAD QAM)  10232- CAD QAM)  10233- CAD QAM)		Z	4.85	67.15	16.34		150.0	
10226- CAA 16-QAM  10227- CAA 64-QAM  10228- CAA QPSK)  10229- CAB QAM)  10230- CAB QAM)  10231- CAB QAM)  10231- CAD QAM)  10232- CAD QAM)  10233- CAD QAM)	MTS-FDD (HSPA+)	X	2.64	66.25	14.92	0.00	150.0	1000
CAA 16-QAM  10227- CAA 64-QAM  10228- CAA QPSK)  10229- CAB QAM)  10230- CAB QAM)  10231- CAB QPSK)  10232- CAD QAM)  10233- CAD QAM)  10233- CAD QAM)  10233- CAD QAM)  10233- CAD QAM)  10234- CAD QAM)  10235- CAD QAM)  10236- CAD LTE-TD CAD  10236- CAD 16-QAM	(HOPAT)	-				0.00		±9.6 %
CAA 16-QAM  10227- LTE-TD CAA G4-QAM  10228- LTE-TD CAA QPSK)  10229- LTE-TD CAB QAM)  10230- LTE-TD CAB QAM)  10231- LTE-TD CAB QAM)  10232- LTE-TD CAD QAM)  10233- LTE-TD CAD QAM)  10233- LTE-TD CAD QAM)  10234- LTE-TD CAD QPSK)  10236- LTE-TD CAD 16-QAM  10236- LTE-TD CAD G4-QAM		Y	2.47	65.44	14.20		150.0	
CAA 16-QAM  10227- LTE-TD CAA 64-QAM  10228- LTE-TD CAA QPSK)  10229- LTE-TD CAB QAM)  10230- LTE-TD CAB QAM)  10231- LTE-TD CAB QAM)  10232- LTE-TD CAD QAM)  10233- LTE-TD CAD QAM)  10233- LTE-TD CAD QAM)  10236- LTE-TD CAD 16-QAM  10236- LTE-TD CAD 16-QAM	TOD (00 FD) (1 1 00 1 1 1 1 1	Z	2.51	66.11	14.44		150.0	
CAA 64-QAM  10228- LTE-TD CAA QPSK)  10229- LTE-TD CAB QAM)  10230- LTE-TD CAB QAM)  10231- LTE-TD CAB QAM)  10232- LTE-TD CAD QAM)  10233- LTE-TD CAD QAM)  10233- LTE-TD CAD QAM)  10234- LTE-TD CAD QPSK)  10235- LTE-TD CAD 16-QAM  10236- LTE-TD CAD 16-QAM	E-TDD (SC-FDMA, 1 RB, 1.4 MHz, -QAM)	X	4.57	81.37	23.38	6.02	65.0	± 9.6 %
CAA 64-QAM  10228- LTE-TD CAA QPSK)  10229- LTE-TD CAB QAM)  10230- LTE-TD CAB QAM)  10231- LTE-TD CAB QAM)  10232- LTE-TD CAD QAM)  10233- LTE-TD CAD QAM)  10233- LTE-TD CAD QAM)  10234- LTE-TD CAD QPSK)  10235- LTE-TD CAD 16-QAM  10236- LTE-TD CAD 16-QAM		Y	4.90	82.52	23.85		65.0	
CAA 64-QAM  10228- CAA QPSK)  10229- CAB QAM)  10230- CAB QAM)  10231- CAB QAM)  10231- CAD QAM)  10232- CAD QAM)  10233- CAD QAM)  10233- CAD QAM)  10234- CAD QAM)  10235- CAD LTE-TD CAD QAM)  10236- CAD LTE-TD CAD LTE-TD CAD LTE-TD CAD QAM)		Z	4.15	81.66	23.92	-	65.0	
CAA QPSK)  10229- LTE-TD CAB QAM)  10230- LTE-TD CAB QAM)  10231- LTE-TD CAB QAM)  10232- LTE-TD CAD QAM)  10233- LTE-TD CAD QAM)  10234- LTE-TD CAD QPSK)  10235- LTE-TD CAD 16-QAM  10236- LTE-TD CAD 16-QAM	E-TDD (SC-FDMA, 1 RB, 1.4 MHz, -QAM)	X	4.60	80.57	22.40	6.02	65.0	± 9.6 %
CAA QPSK)  10229- LTE-TD CAB QAM)  10230- LTE-TD CAB QAM)  10231- LTE-TD CAB QAM)  10232- LTE-TD CAD QAM)  10233- LTE-TD CAD QAM)  10234- LTE-TD CAD QPSK)  10235- LTE-TD CAD 16-QAM  10236- LTE-TD CAD 16-QAM		Y	4.89	81.58	22.82		65.0	
CAA QPSK)  10229- LTE-TD CAB QAM)  10230- LTE-TD CAB QAM)  10231- LTE-TD CAB QPSK)  10232- LTE-TD CAD QAM)  10233- LTE-TD CAD QAM)  10233- LTE-TD CAD QPSK)  10234- LTE-TD CAD L		Z	4.14	80.85	22.92		65.0	
10229- LTE-TDI CAB QAM)  10230- LTE-TDI CAB QAM)  10231- LTE-TDI CAB QPSK)  10232- LTE-TDI CAD QAM)  10233- LTE-TDI CAD QAM)  10234- LTE-TDI CAD QPSK)  10235- LTE-TDI CAD 16-QAM  10236- LTE-TDI CAD 64-QAM	E-TDD (SC-FDMA, 1 RB, 1.4 MHz,	X	3.35	77.29	23.65	6.02	65.0	± 9.6 %
CAB QAM)  10230- LTE-TD CAB QAM)  10231- LTE-TD CAB QPSK)  10232- LTE-TD CAD QAM)  10233- LTE-TD CAD QAM)  10234- LTE-TD CAD QAM)  10235- LTE-TD CAD 16-QAM  10236- LTE-TD CAD 16-QAM		Y	3.36	77.54	23.87		65.0	
CAB QAM)  10230- LTE-TD CAB QAM)  10231- LTE-TD CAB QPSK)  10232- LTE-TD CAD QAM)  10233- LTE-TD CAD QAM)  10234- LTE-TD CAD QAM)  10235- LTE-TD CAD 16-QAM  10236- LTE-TD CAD 16-QAM	10.1 °	Z	2.92	75.79	23.43		65.0	
10230- CAB QAM)  10231- CAB QPSK)  10232- CAD QAM)  10233- CAD QAM)  10233- CAD QAM)  10234- CAD QPSK)  10235- CAD 16-QAM  10236- CAD 64-QAM	E-TDD (SC-FDMA, 1 RB, 3 MHz, 16-	X	4.39	80.55	22.98	6.02	65.0	± 9.6 %
CAB QAM)  10231- LTE-TD QPSK)  10232- LTE-TD QAM)  10233- LTE-TD QAM)  10234- LTE-TD QPSK)  10235- LTE-TD QAM  10236- LTE-TD GAD 16-QAM  10236- LTE-TD GAD 64-QAM	3004/	Y	4.67	81.55	23.40		65.0	
CAB QAM)  10231- LTE-TD QPSK)  10232- LTE-TD QAM)  10233- LTE-TD QAM)  10234- LTE-TD QPSK)  10235- LTE-TD QAM  10236- LTE-TD GAD 16-QAM  10236- LTE-TD GAD 64-QAM		Z	3.96	80.71	23.47		65.0	
10231- LTE-TD CAB QPSK)  10232- LTE-TD CAD QAM)  10233- LTE-TD CAD QAM)  10234- LTE-TD CAD QPSK)  10235- LTE-TD CAD 16-QAM  10236- LTE-TD CAD 64-QAM	E-TDD (SC-FDMA, 1 RB, 3 MHz, 64-	X	4.37	79.68	21.99	6.02	65.0	± 9.6 %
CAB QPSK)  10232- LTE-TD CAD QAM)  10233- LTE-TD CAD QPSK)  10234- LTE-TD CAD QPSK)  10235- LTE-TD CAD 16-QAM  10236- LTE-TD CAD 64-QAM		Y	4.61	80.55	22.37		65.0	
CAB QPSK)  10232- LTE-TD CAD QAM)  10233- LTE-TD CAD QPSK)  10234- LTE-TD CAD QPSK)  10235- LTE-TD CAD 16-QAM  10236- LTE-TD CAD 64-QAM		Z	3.91	79.81	22.46		65.0	
10232- LTE-TD CAD QAM)  10233- LTE-TD CAD QAM)  10234- LTE-TD CAD QPSK)  10235- LTE-TD CAD 16-QAM  10236- LTE-TD CAD 64-QAM	E-TDD (SC-FDMA, 1 RB, 3 MHz,	X	3.26	76.70	23.33	6.02	65.0	± 9.6 %
CAD QAM)  10233- LTE-TD CAD QAM)  10234- LTE-TD CAD QPSK)  10235- LTE-TD CAD 16-QAM  10236- LTE-TD CAD 64-QAM	514	Y	3.26	76.88	23.51		65.0	
CAD QAM)  10233- LTE-TD CAD QAM)  10234- LTE-TD CAD QPSK)  10235- LTE-TD CAD 16-QAM  10236- LTE-TD CAD 64-QAM		Z	2.84	75.20	23.10		65.0	
10233- LTE-TD CAD QAM) 10234- LTE-TD CAD QPSK) 10235- LTE-TD CAD 16-QAM 10236- LTE-TD CAD 64-QAM	E-TDD (SC-FDMA, 1 RB, 5 MHz, 16-	X	4.39	80.53	22.98	6.02	65.0	± 9.6 %
CAD QAM)  10234- LTE-TD CAD QPSK)  10235- LTE-TD CAD 16-QAM  10236- LTE-TD CAD 64-QAM		Y	4.66	81.53	23.40		65.0	
CAD QAM)  10234- LTE-TD CAD QPSK)  10235- LTE-TD CAD 16-QAM  10236- LTE-TD CAD 64-QAM		Z	3.96	80.69	23.47		65.0	
10234- LTE-TD CAD QPSK) 10235- LTE-TD CAD 16-QAM 10236- LTE-TD CAD 64-QAM	E-TDD (SC-FDMA, 1 RB, 5 MHz, 64-	X	4.36	79.65	21.99	6.02	65.0	± 9.6 %
CAD QPSK)  10235- LTE-TDI CAD 16-QAM  10236- LTE-TDI CAD 64-QAM  10237- LTE-TDI		Y	4.60	80.51	22.36		65.0	
CAD QPSK)  10235- LTE-TDI CAD 16-QAM  10236- LTE-TDI CAD 64-QAM  10237- LTE-TDI		Z	3.89	79.77	22.44		65.0	
10235- LTE-TDI CAD 16-QAM 10236- LTE-TDI CAD 64-QAM 10237- LTE-TDI	E-TDD (SC-FDMA, 1 RB, 5 MHz,	X	3.19	76.23	23.02	6.02	65.0	± 9.6 %
10236- LTE-TDI 64-QAM		Y	3.18	76.36	23.17		65.0	
10236- LTE-TDI 64-QAM		Z	2.78	74.77	22.80		65.0	
10236- LTE-TDI CAD 64-QAM 10237- LTE-TDI	E-TDD (SC-FDMA, 1 RB, 10 MHz,	X	4.38	80.55	22.98	6.02	65.0	± 9.6 %
10237- LTE-TD	Sec. Mary	Y	4.66	81.55	23.41		65.0	
10237- LTE-TD		Z	3.96	80.70	23.48		65.0	
10237- LTE-TD	E-TDD (SC-FDMA, 1 RB, 10 MHz,	X	4.40	79.78	22.03	6.02	65.0	± 9.6 %
		Y	4.64	80.65	22.40		65.0	
		Z	3.94	79.92	22.49		65.0	
- (d) (d)	E-TDD (SC-FDMA, 1 RB, 10 MHz,	X	3.25	76.71	23.34	6.02	65.0	± 9.6 %
	MIM.	Y	3.26	76.89	23.52		65.0	
		Z	2.83	75.20	23.10		65.0	
10238- LTE-TD	E-TDD (SC-FDMA, 1 RB, 15 MHz.	X	4.37	80.51	22.96	6.02	65.0	± 9.6 %
CAD 16-QAM		Y	4.65	81.50	23.39		65.0	_ 3.0 70
		Z	3.95	80.66	23.46		65.0	

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10239- CAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	4.34	79.61	21.97	6.02	65.0	± 9.6 %
	The state of the s	Y	4.58	80.47	22.35		65.0	
		Z	3.88	79.72	22.43		65.0	
10240-	LTE-TDD (SC-FDMA, 1 RB, 15 MHz,	X	3.25	76.69	23.33	6.02	65.0	± 9.6 %
CAD	QPSK)	- 77	2.05	70.07	00.54		00.0	
		Y	3.25	76.87	23.51		65.0	
40044	LEE TOO YOU FOLLS	Z	2.83	75.19	23.10	0.00	65.0	
10241- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	×	5.67	76.94	23.64	6.98	65.0	± 9.6 %
		Y	5.73	77.33	23.85		65.0	100
		Z	5.41	77.63	24.19		65.0	
10242- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	Х	5.51	76.48	23.38	6.98	65.0	± 9.6 %
		Y	5.15	75.22	22.87		65.0	
		Z	5.17	76.81	23.79		65.0	
10243- CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	Х	4.66	73.35	22.88	6.98	65.0	± 9.6 %
		Y	4.37	72.03	22,31		65.0	
		Z	4.40	73.35	23.12		65.0	
10244- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	2.90	67.06	13.06	3.98	65.0	± 9.6 %
		Y	2.71	66.26	12.47		65.0	
		Z	2.39	65.15	11.38		65.0	
10245- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	2.85	66.61	12.78	3.98	65.0	± 9.6 %
0.10	0.7 (2.11)	Y	2.68	65.84	12.20		65.0	
		Z	2.36	64.77	11.12		65.0	
10246- CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	3.01	71.40	15.89	3.98	65.0	± 9.6 %
0,10		Y	2.36	67.99	13.82		65.0	
		Z	2.41	68.64	13.94		65.0	
10247- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	Х	3.36	69.51	15.75	3.98	65.0	± 9.6 %
		Y	2.95	67.61	14.45		65.0	
		Z	2.97	68.07	14.42	11 - 1	65.0	
10248- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	Х	3.34	68.90	15.44	3.98	65.0	± 9.6 %
		Y	2.95	67.15	14.22		65.0	
		Z	2.92	67.38	14.07		65.0	
10249- CAD	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	Х	4.26	76.83	19.56	3.98	65.0	± 9.6 %
UND	GI OIL	Y	3.47	73.55	17.79		65.0	
		Z	3.81	75.50	18.55		65.0	
10250- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	4.36	73.05	19.62	3.98	65.0	± 9.6 %
		Y	4.02	71.77	18.85		65.0	
		Z	4.18	72.90	19.29		65.0	
10251- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	4.16	70.97	18.24	3.98	65.0	± 9.6 %
J. I.D	Total as Section	Y	3.84	69.74	17.45		65.0	
		Z	3.91	70.51	17.72		65.0	
10252- CAD	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	4.83	77.80	21.42	3.98	65.0	± 9.6 %
		Y	4.26	75.76	20.36		65.0	
		Z	4.64	77.86	21.33		65.0	
10253- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	4.40	70.58	18.61	3.98	65.0	± 9.6 %
UND	TO SOME	Y	4.13	69.58	18.00		65.0	
		Z	4.22	70.40	18,37		65.0	
10254-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz.	X	4.70	71.50	19.34	3.98	65.0	± 9.6 %
CAD	64-QAM)	Y	7.04.00			0.00	TO A COUNTY	2 3.0 70
			4.41	70.53	18.77		65.0	
		Z	4.01	71.38	19.13		65.0	

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10255- CAD	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	4.76	74.95	20.56	3.98	65.0	± 9.6 %
CAD	QF3K)	Y	4.35	73.52	19.81		er o	
		Z	4.59	75.06	20.58		65.0	
10256-	LTE-TDD (SC-FDMA, 100% RB, 1.4	X	2.08	63.27	9.80	3.98	65.0	± 9.6 %
CAA	MHz, 16-QAM)	^	2.00	03.27	5.00	3.30	00.0	I 9.0 76
	10 34 117	Y	1.95	62.60	9.21		65.0	
		Z	1.70	61.73	8.15		65.0	
10257-	LTE-TDD (SC-FDMA, 100% RB, 1.4	X	2.07	62.91	9.50	3.98	65.0	± 9.6 %
CAA	MHz, 64-QAM)				0.00	0.00	00.0	20,070
mmedit et i		Y	1.94	62.29	8.92		65.0	
		Z	1.69	61.46	7.88		65.0	
10258-	LTE-TDD (SC-FDMA, 100% RB, 1.4	X	2.01	65.63	11.91	3.98	65.0	±9.6 %
CAA	MHz, QPSK)							
		Y	1.65	63.35	10.17		65.0	
		Z	1.59	63.25	9.83		65.0	
10259-	LTE-TDD (SC-FDMA, 100% RB, 3 MHz,	X	3.78	71.05	17.26	3.98	65.0	±9.6 %
CAB	16-QAM)							
		Y	3.37	69.33	16.13		65.0	
		Z	3.46	70.13	16.31		65.0	
10260-	LTE-TDD (SC-FDMA, 100% RB, 3 MHz,	X	3.81	70.78	17.12	3.98	65.0	± 9.6 %
CAB	64-QAM)	1.0		00.15	40.00		0.5.5	
		Y	3.41	69.12	16.02		65.0	
40004	LTE TOD /CO FOUL 4000 FO A 111	Z	3.48	69.84	16.15	2.00	65.0	1000
10261-	LTE-TDD (SC-FDMA, 100% RB, 3 MHz,	X	4.32	76.55	20.03	3.98	65.0	± 9.6 %
CAB	QPSK)	· ·	2.00	70.07	10.01		00.0	
		Y	3.68	73.97	18.61		65.0	
10000	LTE TOO (SC FOMA 4009) DR FAILE	Z	4.03	75.96	19.43	2.00	65.0	+000
10262- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	4.35	72.98	19.56	3.98	65.0	± 9.6 %
		Y	4.00	71.69	18.79		65.0	
		Z	4.16	72.81	19.23	1000000	65.0	
10263- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	4.15	70.95	18.23	3.98	65.0	± 9.6 %
		Y	3.83	69.72	17.45		65.0	
		Z	3.90	70.49	17.72		65.0	20000
10264- CAD	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	4.78	77.59	21.30	3.98	65.0	±9.6 %
- F. C. A. T. L.		Y	4.21	75.55	20.24		65.0	
		Z	4.59	77.63	21.21		65.0	
10265- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	4.45	70.90	18.87	3.98	65.0	±9.6 %
OI IO	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Y	4.17	69.87	18.27		65.0	17
		Z	4.26	70.67	18.67		65.0	
10266- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	4.79	71.96	19.72	3.98	65.0	± 9.6 %
		Y	4.50	70.98	19.16		65.0	
		Z	4.60	71.84	19.58		65.0	
10267- CAD	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	4.98	75.63	20.70	3.98	65.0	±9.6 %
Urill'	1711 (MA) (ME) (ME) (ME)	Y	4.53	74.10	19.92		65.0	
		Z	4.81	75.72	20.78		65.0	
10268-	LTE-TDD (SC-FDMA, 100% RB, 15	X	5.11	71.08	19.43	3.98	65.0	± 9.6 %
CAD	MHz, 16-QAM)	(2.0)	=397.00	VA.2323	E520000	2,00	10000	23.0 70
		Z	4.84	70.20	18.97		65.0	
10269-	LTE-TDD (SC-FDMA, 100% RB, 15	X	5.13	70.76	19.32	3.98	65.0	± 9.6 %
CAD	MHz, 64-QAM)	Y	4.87	69.92	18.86		65.0	
		Z	4.96	70.66	19.25		65.0	
10270-	LTE-TDD (SC-FDMA, 100% RB, 15	X	5.11	73.33	19.25	3.98	65.0	±9.6%
CAD	MHz, QPSK)	3500	BREALON	Western's	- CONTRACTOR	3.80	1300000	2 3.0 %
		Y	4.76	72.19	19.29		65.0	
		2	4.96	73.43	19.98		65.0	

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10274- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	X	2,48	66.86	14.99	0.00	150.0	± 9.6 %
		Y	2.30	65.90	14.17		150.0	
		Z	2.37	66.79	14.57		150.0	
10275- CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	×	1.53	68.05	15.40	0.00	150.0	± 9.6 %
		Y	1.32	66.12	13.91		150.0	
		Z	1.45	67.75	14.99		150.0	
10277-	PHS (QPSK)	X	1.30	58.93	4.20	9.03	50.0	±9.6 %
CAA	77.5 (3. 5.7)	Y	1.32	58.56	3.87	150000	50.0	20.0 //
		Z	1.18	58.32	3.49			
10278-	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	2.49	64.91		0.02	50.0	1000
CAA	PHS (QFSK, BW 604MFIZ, ROHOH U.5)	1000	11 1570 501 111	95000000	10.26	9.03	50.0	±9.6 %
		Y	2.32	63.55	9.26		50.0	
TERRET		Z	2.17	63.27	8.86		50.0	
10279- CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	×	2.57	65.18	10.47	9.03	50.0	± 9.6 %
		Y	2.38	63.76	9.44		50.0	
		Z	2.22	63.44	9.03		50.0	
10290- CD	CDMA2000, RC1, SO55, Full Rate	×	1.01	65.74	11.23	0.00	150.0	± 9.6 %
SPECIFIC		Y	0.67	61.70	8.06		150.0	
		Z	0.69	62.65	8.67		150.0	
10291- AAB	CDMA2000, RC3, SO55, Full Rate	×	0.64	64.08	10.26	0.00	150.0	±9.6 %
10000		Y	0.41	60.32	6.85		150.0	
		Z	0.48	61.84	8.06		150.0	
10292- AAB	CDMA2000, RC3, SO32, Full Rate	X	0.93	69.17	13.09	0.00	150.0	± 9.6 %
		Y	0.46	61.72	7.96		150.0	
		Z	0.63	65.19	10.18		150.0	
10293- AAB	CDMA2000, RC3, SO3, Full Rate	X	2.58	81.84	18.38	0.00	150.0	±9.6 %
		Y	0.61	64.42	9.84		150.0	
		Z	1.45	74.16	14.40		150.0	
10295- AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	×	16.38	93.11	24.71	9.03	50.0	± 9.6 %
		Y	16.06	90.60	23.14		50.0	
		Z	41.75	104.48	26.91		50.0	
10297- AAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	2.56	69.49	16.58	0.00	150.0	± 9.6 %
		Y	2.33	68.15	15.68		150.0	
		z	2.43	69.17	16.39		150.0	
10298- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	1.18	65.35	11.77	0.00	150.0	± 9.6 %
		Y	0.89	62.40	9.35		150.0	
		Z	0.90	63.00	9.64		150.0	
10299- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	1.36	63.05	9.42	0.00	150.0	± 9.6 %
, , , ,	100	Y	1.26	62.26	8.62		150.0	
		Z	1.05	61.24	7.54		150.0	
10300- AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	1.15	60.99	7.59	0.00	150.0	± 9.6 %
rviv	O'T WOMIN)	Y	1.07	60.46	6.94		150.0	
		Z	0.89	59.75	5.99		150.0	
10301- AAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	4.25	64.73	16.86	4.17	50.0	±9.6 %
AAA	TOWN L. GEON, FOOD)	Υ	4.21	64.78	16.74		50.0	
		Z	4.10	64.79	THE RESERVE AND ADDRESS OF THE PARTY OF THE		The state of the last of the l	
10302-	IEEE 802.16e WiMAX (29:18, 5ms,	X	4.74		16.69	4.00	50.0	4000
AAA	10MHz, QPSK, PUSC, 3 CTRL symbols)		20-1-20	65.43	17.63	4.96	50.0	± 9.6 %
		Y	4.66	65.24	17,38		50.0	
		Z	4.60	65.49	17.44		50.0	

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10303- AAA	Trees are the trust of the trees of the tree	1 22 1		-	-			
	IEEE 802.16e WIMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	×	4.49	65.00	17.39	4.96	50.0	± 9.6 %
		Y	4.44	65.13	17.34		50.0	
		Z	4.36	65.13	17.21		50.0	
10304- AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	4.34	65.04	16.98	4.17	50.0	± 9.6 %
7///	TOWITZ, 04QAW, FOSC)	Y	4.25	64.81	16.70		50.0	
		Z	4.21	65.16	16.70		50.0	
10305-	IEEE 802.16e WiMAX (31:15, 10ms,	X	3.71	65.40	17.85	6.02		+069
AAA	10MHz, 64QAM, PUSC, 15 symbols)					6.02	35.0	± 9.6 %
		Y	3.72	65.71	17.67		35.0	
		Z	3,59	65.50	17.36		35.0	
10306- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	×	4.14	65.15	17.96	6.02	35.0	± 9.6 %
		Y	4.12	65.33	17.82		35.0	
		Z	4.02	65.33	17.66		35.0	
10307- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	4.01	65.07	17.81	6.02	35.0	± 9.6 %
		Y	3.99	65.26	17.66		35.0	
LT IN CASE OF STREET		Z	3.89	65.22	17.49		35.0	
10308- AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	3.97	65.21	17.93	6.02	35.0	± 9.6 %
	17.111.124.117.78.7111.117.78.79.11	Y	3.96	65.42	17.79		35.0	
		Z	3.86	65.37	17.62		35.0	
10309-	IEEE 802.16e WiMAX (29:18, 10ms,	X	4.16	65.22	18.05	6.02	35.0	±9.6 %
AAA	10MHz, 16QAM, AMC 2x3, 18 symbols)	(0.00)	New Year	222012	53300	0.02	13355	1 9.0 %
		Y	4.14	65.39	17.90		35.0	
	1000 000 100 100 100 100 100 100 100 10	Z	4.03	65.36	17,74	0.00	35.0	
10310- AAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	X	4.09	65.15	17.92	6.02	35.0	± 9.6 %
		Y	4.07	65.35	17.79		35.0	
	Wales and the second second second	Z	3.97	65.35	17.65		35.0	- West-
	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	2.92	68.73	16.23	0.00	150.0	± 9.6 %
		Y	2.68	67.45	15.43		150.0	
		Z	2.78	68.38	16.08		150.0	
10313- AAA	IDEN 1:3	X	2.23	70.71	15.35	6.99	70.0	±9.6 %
7001		Y	1.69	66.90	13.17		70.0	
		Z	2.30	71.64	15.93		70.0	
10314- AAA	IDEN 1:6	X	4.08	80.89	22.31	10.00	30.0	± 9.6 %
rivit		Y	3.04	75.07	19.42		30.0	
		Z	4.65	83.62	23.48		30.0	
10315- AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	X	1.04	63.55	14.98	0.17	150.0	± 9.6 %
, , ,	mops, sope daily elone)	Y	0.94	62.52	14.02		150.0	
		Z	1.03	63.50	14.81		150.0	
10316- AAB	IEEE 802.11g WiFi 2.4 GHz (ERP- OFDM, 6 Mbps, 96pc duty cycle)	X	4.37	66.68	16.19	0.17	150.0	±9.6 %
PARIO	Or Divi, o Wobs, sope duty cycle)	Y	4.26	66.34	15.95		150.0	
		Z	4.26	66.72	16.11		150.0	
10317-	IEEE 802.11a WiFi 5 GHz (OFDM, 6	X	4.20	66.68	16.11	0.17	150.0	±9.6 %
10317-	Mbps, 96pc duty cycle)	250			1225222	0.17	ENG-300	£ 9.6 %
AAC		Y	4.26	66.34	15.95		150.0	
AAC		Z	4.26	66.72	16.11		150.0	
			4 40	67.02	16.23	0.00	150.0	±9.6 %
10400-	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	X	4.46	25/1820/1944	National Company	IL N. ACADOM.		
10400-		X	4.46	66.64	15.97	II for acceptant	150.0	10000000
10400-		Y	12000000	NAMES OF A	111-112-1101	11.0000	150.0 150.0	
10400- AAD	99pc duty cycle)  IEEE 802.11ac WiFi (40MHz, 64-QAM,	152-05	4.33	66,64	15.97	0.00		± 9.6 %
10400- AAD	99pc duty cycle)	Y	4.33 4.31	66.64 66.98	15.97 16.13	0.00	150.0	± 9.6 %

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10402- AAD	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	Х	5.47	67.39	16.42	0.00	150.0	±9.6 %
MAD	99pc daty cycle)	Y	5.37	67.08	16.25		150.0	
		Z	5.37	67.35	16.23		150.0	
10403-	CDMA2000 (1xEV-DO, Rev. 0)	X	1.01	65.74	11.23	0.00	115.0	± 9.6 %
AAB	ODM/2000 (TACY-DO, Nev. 0)		1.00	00.74	11.60	0.00	110.0	2 0.0 70
7.0.102		Y	0.67	61.70	8.06		115.0	
		Z	0.69	62.65	8.67		115.0	
10404-	CDMA2000 (1xEV-DO, Rev. A)	X	1.01	65.74	11.23	0.00	115.0	±9.6 %
AAB	SOMPLESSO (TALT DO, TICKTY)	30	1.01	00.77	21,44	0.00	110.0	20.0 /0
		Y	0.67	61.70	8.06		115.0	
		Z	0.69	62.65	8.67		115.0	
10406-	CDMA2000, RC3, SO32, SCH0, Full	X	13.40	94.87	22.42	0.00	100.0	± 9.6 %
AAB	Rate	2062	23-28%	153415250	ATTACAS (		116525	-3-E3EM3
0-0-11		Y	37.24	104.89	24.38		100.0	
		Z	100.00	114.79	25.79		100.0	
10410- AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9, Subframe Conf=4)	×	2.95	79.35	18.40	3.23	80.0	± 9.6 %
	- Continue Contract	Y	3.69	82.30	19.32		80.0	
		Z	3.87	84.90	20.56		80.0	
10415-	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1	X	1.00	63.14	14.62	0.00	150.0	±9.6 %
AAA	Mbps, 99pc duty cycle)	25.5	111111111111111111111111111111111111111	2000	1000000	1000	1	
		Y	0.91	62.12	13.65		150.0	
		Z	0.99	63.08	14.44		150.0	
10416-	IEEE 802.11g WiFi 2.4 GHz (ERP-	X	4.35	66.77	16.19	0.00	150.0	± 9.6 %
AAA	OFDM, 6 Mbps, 99pc duty cycle)	1000	THORESON	(CEN)	1969866 U		25922922	SSECTION
2000		Y	4.23	66.41	15.93		150.0	
		Z	4.24	66.81	16.11		150.0	
10417- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	×	4,35	66.77	16.19	0.00	150.0	±9.6 %
		Y	4.23	66.41	15.93		150.0	
		Z	4.24	66.81	16.11		150.0	
10418- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	X	4.35	66.98	16.25	0.00	150.0	± 9.6 %
		Y	4.23	66.61	15.99		150.0	
47403410034	THE SECTION OF THE SE	Z	4.23	67.03	16.19	1. University	150.0	- Washington
10419- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	X	4.36	66.91	16.23	0.00	150.0	±9.6 %
	- International Control of the Contr	Y	4.24	66.55	15.97		150.0	
		Z	4.25	66.96	16.17		150.0	
10422- AAB	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.47	66.89	16.24	0.00	150.0	± 9.6 %
		Y	4,35	66.53	15.99		150.0	
		Z	4.35	66.92	16.18		150.0	
10423- AAB	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	×	4.59	67.14	16.33	0.00	150.0	± 9.6 %
		Y	4.47	66.78	16.08		150.0	
		Z	4.46	67.16	16.25		150.0	
10424-	IEEE 802.11n (HT Greenfield, 72.2	X	4.52	67.09	16,31	0.00	150.0	± 9.6 %
AAB	Mbps, 64-QAM)				0			
		Y	4.40	66.73	16.05		150.0	
NAME OF TAXABLE PARTY.		Z	4.39	67.09	16.23	-	150.0	
10425- AAB	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	×	5,15	67.27	16.49	0.00	150.0	± 9.6 %
		Y	5.05	66.98	16.31		150.0	
		Z	5.01	67.17	16.41		150.0	
10426- AAB	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	×	5.17	67.36	16,53	0.00	150.0	± 9.6 %
		Y	5.08	67.12	16.38		150.0	
		Z	5.05	67.33	16.49		150.0	

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10427- AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	X	5.13	67.15	16.42	0.00	150.0	± 9.6 %
		Y	5.03	66.85	16.24		150.0	
VANCOUNT I	VALUE AND THE PARTY OF THE PART	Z	5.01	67.11	16.38		150.0	
10430- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.23	72.27	18.34	0.00	150.0	± 9.6 %
2.3.98		Y	3.99	71.49	17.71		150.0	
		Z	4.17	72.80	18.15		150.0	
10431-	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	3.96	67.36	16.06	0.00	150.0	±9.6 %
AAB	ETE-1 DD (OT DMA, 10 MF12, E-1M 3.1)	Ŷ	D88535	220000000000000000000000000000000000000	0.790.00	0.00	AVESSOCS	1 9.0 %
			3.81	66.88	15.67		150.0	
10100	175 500 (050)11 45101 5 7146 0	Z	3.81	67.37	15.87		150.0	
10432- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.29	67.19	16.23	0.00	150.0	± 9.6 %
		Y	4.15	66.79	15.93		150.0	
24244		Z	4.15	67.22	16.13		150.0	
10433- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	4.54	67.13	16.33	0.00	150.0	± 9.6 %
		Y	4.42	66.76	16.08		150.0	
		Z	4.41	67.14	16.25		150.0	
10434- W-CDMA (B	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.34	73.15	18.13	0.00	150.0	± 9.6 %
		Y	3.97	71.83	17.20		150.0	
		Z	4.17	73.19	17.60		150.0	
10435-	LTE-TDD (SC-FDMA, 1 RB, 20 MHz,	X	2.84	78.74	18.13	3.23	80.0	±9.6 %
AAC	QPSK, UL Subframe=2,3,4,7,8,9)	Y	- Contract			3.23		I 9.0 %
			3.48	81.45	18.98		80.0	
40447	LTE FOR OFFILE FALL FALLS	Z	3.64	83.98	20.20		80.0	
10447- AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.20	67.15	14.91	0.00	150.0	± 9.6 %
		Y	2.99	66.28	14.17		150.0	
		Z	2.97	66.77	14.26		150.0	
10448- AAB	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	X	3.83	67.16	15.94	0.00	150.0	±9.6 %
		Y	3.68	66.67	15.55		150.0	
		Z	3.69	67.18	15.75		150.0	
10449- AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	X	4.13	67.03	16.13	0.00	150.0	± 9.6 %
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	345-000-00-00-00-00-00-00-00-00-00-00-00-0	Y	4.00	66.61	15.83		150.0	
		Z	4.00	67.05	16.03		150.0	
10450- AAB	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.34	66.91	16.19	0.00	150.0	±9.6 %
-		Y	4.22	66.53	15.92		150.0	
		Z	4.23	66.92	16.11		150.0	
10451- AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	2,99	66.88	14.14	0.00	150.0	± 9.6 %
	- Control of the Cont	Y	2.74	65.78	13.23		150.0	
		Z	2.69	66.07	13.18		150.0	
10456- AAB	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	X	6.06	67.78	16.63	0.00	150.0	± 9.6 %
7.4.00		Y	6.00	67.55	16.51		150.0	
		Z	6.07	68.05	16.78		150.0	
10457-	UMTS-FDD (DC-HSDPA)	X	3.71	65,53	15.92	0.00	150.0	±9.6 %
AAA	Since of the last internal	Y	3.61	65.20	15.66	7.4.44	150.0	3.0.00
		Z	3.65	65.68	15.87		150.0	
10458-	CDMA2000 (1xEV-DO, Rev. B, 2	X	3.70	71.13	16.64	0.00	150.0	± 9.6 %
AAA	carriers)						100.0	
		Y	3.25	69.16	15.28		150.0	
		Z	3.15	69.17	14.95	12722	150.0	
10459- NAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	X	4.84	69,11	17.84	0.00	150.0	± 9.6 %
AAA		Y	4.69	68.77	17.48		150.0	

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10460-	UMTS-FDD (WCDMA, AMR)	Х	0.88	68.39	16.07	0.00	150.0	±9.6 %
AAA		W	0.70	05.50	40.77		450.0	
		Y	0.70	65.56	13.77		150.0	
10101	1 TE TOD (00 FD11) 1 CO 1 1 1 1 1	Z	0.84	67.99	15.62	0.00	150.0	1500
10461- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	1.57	72.49	16.91	3.29	80.0	± 9.6 %
1 P. Ser Call		Y	2.31	77.86	18.85		80.0	
		Z	1.89	76.90	18.97		80.0	
10462- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	0.65	60.00	7.36	3.23	80.0	± 9.6 %
-		Y	0.67	60.00	7.26		80.0	
		Z	0.57	60.00	7.02		80.0	
10463- AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	0.67	60.00	6.67	3.23	80.0	± 9.6 %
	01 20 1111 02 300113110 210111110101	Y	0.68	60.00	6.58		80.0	
		Z	0.60	60.00	6.22		80.0	
10464-	LTE-TDD (SC-FDMA, 1 RB, 3 MHz,	X	1.23	69.24	14.93	3.23	80.0	± 9.6 %
AAA	QPSK, UL Subframe=2,3,4,7,8,9)		11000000	101/2/01/27	CV-Dolese L	0.20		1 3.0 /0
		Y	1.59	72.66	16.19		80.0	
4040=	175 700 000 50111 1 50 5111	Z	1.42	72.83	16.69	0.00	80.0	1 2 2 2 2
10465- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	×	0.65	60.00	7.28	3.23	80.0	± 9.6 %
		Y	0.67	60.00	7.19		80.0	
		Z	0.57	60.00	6.95	-	80.0	
10466- AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	0.67	60.00	6.62	3.23	80.0	± 9.6 %
	The state of the s	Y	0.69	60.00	6.54		80.0	
		Z	0.60	60.00	6.18		80.0	
10467- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.28	69.83	15.22	3.23	80.0	± 9.6 %
		Y	1.71	73.64	16.62		80.0	
		Z	1.51	73.74	17.10		80.0	
10468- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	0.65	60.00	7.31	3.23	80.0	± 9.6 %
1110		Y	0.66	60.00	7.22		80.0	
		Z	0.57	60.00	6.98		80.0	
10469- AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	0.67	60.00	6.62	3.23	80.0	± 9.6 %
1010	as an or chordina alatinialay	Y	0.68	60.00	6.54		80.0	
		Z	0.60	60.00	6.18		80.0	
10470- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.27	69.83	15.21	3.23	80.0	± 9.6 %
AAC	Q/ O(, OC Oubitatio=2,0,4,7,0,0)	Y	1.71	73.66	16.62		80.0	
		Z	1.50	73.77	17.11		80.0	
10471- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	X	0.65	60.00	7.29	3.23	80.0	± 9.6 %
. 510	Se 111/1 OE SOUNGING - E,O,T,1,O,O)	Y	0.66	60.00	7.20		80.0	
		Z	0.57	60.00	6.96		80.0	
10472- AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	X	0.67	60.00	6.60	3.23	80.0	± 9.6 %
rino	Se iiii, Oc Gustamo-2,5,4,7,6,5)	Y	0.68	60.00	6.52		80.0	
		Z	0.31	55.91	4.03		80.0	
10473-	LTE-TDD (SC-FDMA, 1 RB, 15 MHz.	X	1.27	69.80	15.19	3.23	80.0	± 9.6 %
AAC	QPSK, UL Subframe=2,3,4,7,8,9)		2000		111271001	3.23	GREEKE THE	19.0 %
		Y	1.70	73.59	16.59		80.0	
10474-	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-	X	1.50 0.65	73.71 60.00	17.08 7.29	3.23	80.0	± 9.6 %
AAC	QAM, UL Subframe=2,3,4,7,8,9)	34	0.00	00.00	7.00		00.0	
		Y	0.66	60.00	7.20		80.0	
10.177	1 TE TOO 100 FOUR 1 CO 101 II	Z	0.57	60.00	6.96		80.0	
10475- AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	×	0.67	60.00	6.60	3.23	80.0	± 9.6 %
		Y	0.68	60.00	6.52		80.0	
		Z	0.31	55.90	4.03		80.0	

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10477- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16- QAM, UL Subframe=2,3,4,7,8,9)	Х	0.65	60.00	7.26	3.23	80.0	± 9.6 %
		Y	0.66	60.00	7.17		80.0	
		Z	0.57	60.00	6.93		80.0	
10478- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64- QAM, UL Subframe=2,3,4,7,8,9)	Х	0.67	60.00	6.59	3.23	80.0	± 9.6 %
177		Y	0.68	60.00	6.51		80.0	
0000000		Z	0.31	55.89	4.01		80.0	
10479- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	3.24	76.16	18.67	3.23	80.0	± 9.6 %
		Y	4.42	80.82	20.23		80.0	
		Z	4.39	82.21	20.82		80.0	
10480- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	2.03	66.76	12.73	3.23	80.0	± 9.6 %
	100000000000000000000000000000000000000	Y	2.05	66.92	12.60		80.0	
		Z	1.85	67.01	12.43		80.0	
10481- AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.62	63.96	11.04	3.23	80.0	± 9.6 %
		Y	1.57	63.66	10.70		80.0	
		Z	1.32	63.18	10.24		80.0	
10482- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	1.53	65.20	12.69	2.23	80.0	±9.6 %
MINE O		Y	1.10	61.56	10.21		80.0	
		Z	1.14	62.42	10.54		80.0	
10483- AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	1.45	61.38	9.71	2.23	80.0	±9.6 %
20201012		Y	1.32	60.52	8.97		80.0	
		Z	1.16	60.00	8.17		80.0	
	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	1.44	61.07	9,53	2.23	80.0	± 9.6 %
		Y	1.32	60.25	8.82		80.0	
		Z	1.19	60.00	8.15		80.0	
10485- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.16	69.31	16.02	2.23	80.0	± 9.6 %
		Y	1.69	66.06	14.04		80.0	
		Z	1.93	68.38	15.12		80.0	
10486- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.10	65.45	13.37	2.23	80.0	± 9.6 %
CANADA.		Y	1.71	62.92	11.64		80.0	
		Z	1.73	63.60	11.80		80.0	
10487- AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.11	65.08	13,16	2.23	80.0	± 9.6 %
		Y	1.73	62.69	11.49		80.0	
		Z	1.73	63.23	11.57		80.0	
10488- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.58	69.55	17.35	2.23	80.0	± 9.6 %
		Υ	2.27	67.73	16.25		80.0	
		Z	2.45	69.44	17.18		80.0	
10489- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.75	67.17	16.06	2.23	80.0	± 9.6 %
		Υ	2.49	65.86	15.18		80.0	
		Z	2.63	67.13	15.78		80.0	
10490- AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	2.83	67.06	16.01	2.23	80.0	± 9.6 %
		Y	2.57	65.81	15.15		80.0	
		Z	2.69	66.99	15.69		80.0	
10491- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.92	68.61	17.17	2.23	80.0	± 9.6 %
		Y	2.65	67.28	16.37		80.0	
		Z	2.77	68.48	17.08		80.0	
10492- AAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	3.13	66.69	16.33	2.23	80.0	± 9.6 %
AAC		Y	2.92	65.77	15.72		80.0	
		2012	6.34	03.77	10.72		00.0	

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10493-	LTE-TDD (SC-FDMA, 50% RB, 15 MHz.	-	3.19	66.60	16.28	2.23	80.0	+000
AAC	64-QAM, UL Subframe=2,3,4,7,8,9)	×	3.19	00.00	10.26	2.23	80.0	±9.6 %
- CA	The state of the s	Y	2.99	65.70	15.69		80.0	
		Z	3.07	66.59	16.12		80.0	
10494- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	×	3.09	69.75	17.58	2.23	80.0	±9.6 %
T. P. L. P.	Decree of the control	Y	2.78	68.23	16.72		80.0	
		Z	2.93	69.54	17.51		80.0	
10495-	LTE-TDD (SC-FDMA, 50% RB, 20 MHz,	X	3.15	66.91	16.53	2.23	80.0	±9.6 %
AAC	16-QAM, UL Subframe=2,3,4,7,8,9)	Y	2.94	65.97	15.94	10000000	80.0	LESCON AND
		Z	3.03	66.87	16.43		80.0	
10496- AAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.24	66.76	16.49	2.23	80.0	± 9.6 %
		Y	3.04	65.88	15.93		80.0	
		Z	3.12	66.74	16.39		80.0	
10497- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	0.93	60.00	8.57	2.23	80.0	± 9.6 %
	mining an only of ordering allowing the	Y	0.90	60.00	7.78		80.0	
		Z	0.86	60.00	7.53		80.0	
10498-	LTE-TDD (SC-FDMA, 100% RB, 1.4	X	1.10	60.00	7.25	2.23	80.0	±9.6 %
AAA	MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)		1.10	00.00	7.25	2.23	50.0	13.0 %
		Y	1.08	60.00	6.57		80.0	
		2	1.05	60.00	6.14		80.0	-12
10499- AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL	X	1.12	60.00	7.08	2.23	80.0	± 9.6 %
	Subframe=2,3,4,7,8,9)	Y	1.11	60.00	6.40		80.0	
		Z	1.08	60.00	5.96		80.0	
	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.33	69.42	16.57	2.23	80.0	± 9.6 %
		Y	1.93	66.88	15.00		80.0	
		Z	2.16	69.02	16.03		80.0	
10501- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.42	66.55	14.60	2.23	80.0	± 9.6 %
		Y	2.06	64.46	13.19		80.0	
		Z	2.16	65.57	13.59		80.0	
10502- AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.46	66.38	14.43	2.23	80.0	± 9.6 %
Laura de la constante de la co		Y	2.09	64.32	13.03		80.0	
		Z	2.17	65.33	13.38		80.0	
10503- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	2.55	69.37	17.25	2.23	80.0	± 9.6 %
		Y	2.24	67.56	16.15		80.0	
		Z	2.42	69.25	17.08		80.0	
10504- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	2.73	67.07	16.00	2.23	80.0	± 9.6 %
		Y	2.48	65.76	15.11		80.0	
		Z	2.61	67.02	15.71		80.0	
10505- AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	2.82	66.97	15.95	2.23	80.0	± 9.6 %
		Y	2.56	65.72	15.09		80.0	
		Z	2.68	66.89	15.62		80.0	
10506- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.07	69.63	17.51	2.23	80.0	± 9.6 %
		Y	2.76	68.11	16.65		80.0	
F0300000	CONTROL TO SECURE A SECURITION OF THE SECURITION	Z	2.91	69.41	17.44	- Lander	80.0	
10507- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.14	66.85	16.49	2.23	80.0	±9.6 %
	Southern Electrical	Y	2.93	65.91	15.90		80.0	

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10508- AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.23	66.69	16.44	2.23	80.0	± 9.6 %
		Y	3.03	65.82	15.89		80.0	
		Z	3.11	66.67	16.35		80.0	
10509- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	Х	3.52	68.96	17.25	2.23	80.0	± 9.6 %
	We make the second of the seco	Y	3.24	67.75	16.57		80.0	
		Z	3.37	68.79	17.22		80.0	
10510- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	Х	3.62	66.72	16.61	2.23	80.0	± 9.6 %
	A CONTRACTOR OF THE PROPERTY O	Y	3.43	65.94	16.15		80.0	
		Z	3.50	66.61	16.55		80.0	
10511- AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.70	66.58	16.58	2.23	80.0	± 9.6 %
		Y	3.51	65.85	16.14		80.0	
ar TV		Z	3.58	66.51	16.52		80.0	
10512- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	3.56	70.02	17.57	2.23	80.0	± 9.6 %
		Y	3.23	68.54	16.78		80.0	
		Z	3.39	69.70	17.50		80.0	
10513- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.50	66.80	16.66	2.23	80.0	±9.6 %
		Y	3.31	65.98	16.18		80.0	
	A MANAGEMENT AND A STATE OF THE	Z	3.39	66.65	16.59		80.0	
10514- AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	Х	3.56	66.53	16.58	2.23	80.0	± 9.6 %
		Y	3.38	65.75	16.13		80.0	
		Z	3.45	66.40	16.52		80.0	
10515- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	X	0.96	63.31	14.68	0.00	150.0	± 9.6 %
		Y	0.87	62.23	13.64		150.0	
		Z	0.95	63.24	14.49	-	150.0	
10516- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	0.59	70.32	17.28	0.00	150.0	± 9.6 %
		Y	0.43	66.45	13.92		150.0	
-		Z	0.56	69.40	16.67	-	150.0	
10517- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	X	0.81	65.09	15.27	0.00	150.0	±9.6 %
		Y	0.69	63.42	13.73		150.0	
		Z	0.79	64.83	14.98		150.0	-
10518- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4.34	66.88	16.18	0.00	150.0	± 9.6 %
		Y	4.22	66.51	15.92		150.0	
10519-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12	Z X	4.23	66.93 67.04	16.12 16.27	0.00	150.0	±9.6 %
AAB	Mbps, 99pc duty cycle)		4.55		40.00		400.0	
		Y	4.36	66.68	16.01		150.0	
		Z	4.35	67.07	16.19		150.0	
10520- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.34	66.97	16.18	0.00	150.0	± 9.6 %
		Y	4.22	66.59	15.92		150.0	
10521-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24	X	4.22	66.99 66.94	16.11	0.00	150.0 150.0	±9.6 %
AAB	Mbps, 99pc duty cycle)	Y	AAE	66 E4	15.00		450.0	
		Z	4.15	66.54 66.93	15.89		150.0	
10522-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36	X	4.13	67.05	16.25	0.00	150.0	± 9.6 %
AAB	Mbps, 99pc duty cycle)	Y	4.19	66.65	15.97	0.00	150.0	1 5.0 %
		Z	4.18	66.98	16.13		150.0	
		4	4.10	00.00	10.10		100.0	

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10523- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	X	4.26	67.08	16.19	0.00	150.0	± 9.6 %
and the		Y	4.13	66.69	15.91		150.0	
		Z	4.15	67.15	16.14		150.0	
10524- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4.28	67.03	16.25	0.00	150.0	±9.6 %
	N-2-1-3-0-V	Y	4.15	66.64	15.98		150.0	
		Z	4.14	67.03	16.17		150.0	
10525- AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	4.31	66.15	15.88	0.00	150.0	± 9.6 %
		Y	4.19	65.75	15.61		150.0	
		Z	4.20	66.20	15.83		150.0	
10526- AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.43	66.41	15.99	0.00	150.0	± 9.6 %
		Y	4.30	66.01	15.72		150.0	
		Z	4.30	66.42	15.92		150.0	V
10527- AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	X	4.36	66.39	15.93	0.00	150.0	± 9.6 %
		Y	4.23	65.97	15.65		150.0	
		Z	4.24	66.40	15.86		150.0	
10528- AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	4.38	66.40	15.96	0.00	150.0	± 9.6 %
		Y	4.25	65.99	15.69		150.0	
		Z	4.25	66.41	15.89		150.0	
10529- AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	×	4.38	66.40	15.96	0.00	150.0	± 9.6 %
	1 11 M = 51 - 51 - M	Y	4.25	65.99	15.69		150.0	
		Z	4.25	66.41	15.89		150.0	
10531- AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	Х	4.34	66.42	15.94	0.00	150.0	± 9.6 %
		Y	4.21	65.99	15.65		150.0	
		Z	4.20	66.38	15.85		150.0	
10532- AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.23	66.28	15.87	0.00	150.0	± 9.6 %
	- A	Y	4.09	65.84	15.58		150.0	
		Z	4.10	66.26	15.79		150.0	
10533- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.38	66.48	15.97	0.00	150.0	± 9.6 %
	1	Y	4.25	66.07	15.69		150.0	
		Z	4.25	66.50	15.90		150.0	
10534- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	4.94	66.38	16.03	0.00	150.0	± 9.6 %
		Y	4.83	66.04	15.82		150.0	
		Z	4.83	66.34	15.98		150.0	
10535- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	X	4.98	66.50	16.09	0.00	150.0	± 9.6 %
me or	The Account Committee of the Committee o	Y	4.87	66,15	15.88		150.0	
		Z	4.85	66.43	16.03		150.0	
10536- AAB	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	4.87	66.51	16.07	0.00	150.0	± 9.6 %
Transition		Y	4.76	66.13	15.84		150.0	
		Z	4.75	66.43	16.01		150.0	
10537- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	4.94	66.51	16.07	0.00	150.0	± 9.6 %
	1370,25 E300011 - 5500001	Y	4.83	66.19	15.88		150.0	
		Z	4.83	66.50	16.04		150.0	
10538- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.00	66.46	16.08	0.00	150.0	± 9.6 %
	2-015.05000000000000000000000000000000000	Y	4.89	66.12	15.88		150.0	
		Z	4.87	66.39	16.02		150.0	
10540- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	4.93	66.42	16.08	0.00	150.0	± 9.6 %
	100000000000000000000000000000000000000	Y	4.82	66.06	15.87		150.0	

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10541-	IEEE 802.11ac WiFi (40MHz, MCS7,	X	4.92	66.35	16.03	0.00	150.0	± 9.6 %
AAB	99pc duty cycle)	Y	4.81	65.99	15.82		150.0	
		Z	4.81	66.31	15.98		150.0	
10542- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	×	5.07	66.45	16.09	0.00	150.0	± 9.6 %
20.10	oope daily dydicy	Y	4.96	66.11	15.90		150.0	
		Z	4.95	66.40	16.04		150.0	
10543- AAB	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5,15	66.53	16.16	0.00	150.0	± 9.6 %
	ospo dalij ojunoj	Y	5.05	66.25	16.00		150.0	
		Z	5.03	66.51	16.13		150.0	
10544- AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	×	5.29	66.46	16.02	0.00	150.0	± 9.6 %
CONTROL STATE	- CONTROL OF CONTROL O	Y	5.19	66.11	15.83		150.0	
		Z	5.19	66.38	15.97		150.0	
10545- AAB	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	×	5.46	66.89	16.19	0.00	150.0	± 9.6 %
and the second		Y	5.37	66.61	16.04		150.0	
		Z	5.35	66.81	16.15		150.0	
10546- AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	×	5.32	66.57	16.05	0.00	150.0	± 9.6 %
	West of the second seco	Y	5.22	66.23	15.86		150.0	
		Z	5.22	66.48	15.99		150.0	
10547- AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	×	5.40	66.70	16.10	0.00	150.0	± 9.6 %
		Y	5.32	66.42	15.95		150.0	
		Z	5.33	66.71	16.11		150.0	
10548- AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	5.53	67.27	16.37	0.00	150.0	±9.6 %
		Y	5.44	66.98	16.21		150.0	
		Z	5.38	67.07	16.27		150.0	
10550- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	×	5.38	66.78	16.16	0.00	150.0	± 9.6 %
		Y	5.31	66.53	16.02		150.0	
***************************************		Z	5.31	66.81	16.17		150.0	
10551- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	×	5.31	66,54	16.01	0.00	150.0	± 9.6 %
		Y	5.20	66.17	15.81		150.0	
-		Z	5.19	66.41	15.94		150.0	
10552- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	×	5.30	66.58	16.03	0.00	150.0	± 9.6 %
		Y	5.19	66,23	15.83		150.0	
		Z	5.20	66.53	15.99		150.0	
10553- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.35	66.52	16.03	0.00	150.0	± 9.6 %
		Y	5.24	66.17	15.83		150.0	
7000		Z	5.24	66.44	15.97		150.0	1676
10554- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	5.71	66.79	16.10	0.00	150.0	± 9.6 %
		Y	5.62	66.47	15.93		150.0	
		Z	5.63	66.70	16.05	0.00	150.0	
10555- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	5.80	67.00	16.19	0.00	150.0	±9.6 %
		Y	5.71	66.69	16.02		150.0	
10556-	IEEE 802.11ac WiFi (160MHz, MCS2,	X	5.70 5.84	66.87 67.12	16.12	0.00	150.0 150.0	± 9.6 %
AAC	99pc duty cycle)		E 70	00 OF	40.00		150.0	
		Y	5.76	66.85	16.09		150.0	
10557	IEEE 902 44 oo WIEI /400 H II - 1400 C	Z	5.75	67.04	16.20	0.00	150.0	+000
10557- AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	5.79	66.99	16.19	0.00	150.0	± 9.6 %
		Y	5.70	66.66	16.02		150.0	
		Z	5.70	66.88	16.14		150.0	

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10558- AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	5.80	67.03	16.23	0.00	150.0	± 9.6 %
		Y	5.69	66.67	16.04		150.0	
		Z	5.67	66.84	16.13		150.0	
10560- AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	5.82	66.97	16.24	0.00	150.0	± 9.6 %
	L.V.	Y	5.72	66.63	16.06		150.0	
		Z	5.71	66.83	16.16		150.0	
10561- AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	Х	5.76	66.95	16.26	0.00	150.0	± 9.6 %
		Y	5.66	66.63	16.09		150.0	
		Z	5.65	66.81	16.18		150.0	
10562- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	Х	5.80	67.11	16.34	0.00	150.0	± 9.6 %
		Y	5.70	66.75	16.15		150.0	
		Z	5.68	66.93	16.24		150.0	
10563- AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	5.91	67.11	16.30	0.00	150.0	± 9.6 %
	1001 - 0233 - 31	Y	5,83	66.82	16.15		150.0	
		Z	5.80	66.98	16.24		150.0	
10564- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 99pc duty cycle)	×	4.65	66.88	16.30	0.46	150.0	± 9.6 %
		Y	4.54	66.54	16.07		150.0	
		Z	4.53	66.91	16.24		150.0	
10565- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 12 Mbps, 99pc duty cycle)	X	4.85	67.29	16.62	0.46	150.0	± 9.6 %
		Y	4.73	66.97	16.40		150.0	
		Z	4.71	67.32	16.56		150.0	
10566- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 18 Mbps, 99pc duty cycle)	Х	4.68	67.10	16.42	0.46	150.0	± 9.6 %
71-1		Y	4.56	66.75	16.18		150.0	
		Z	4.55	67.11	16.35		150.0	
10567- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 99pc duty cycle)	Х	4.72	67.51	16.80	0.46	150.0	± 9.6 %
	9 // II-2 / // // A	Y	4.60	67.16	16.57		150.0	
		Z	4.59	67.52	16.75		150.0	
10568- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 99pc duty cycle)	X	4.57	66.80	16.14	0.46	150.0	± 9.6 %
		Y	4.45	66.43	15.88		150.0	-
		Z	4.42	66.71	16.01		150.0	
10569- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 99pc duty cycle)	X	4.71	67.75	16.95	0.46	150.0	± 9.6 %
		Y	4.59	67.42	16.73		150.0	
		Z	4.60	67.83	16.93		150.0	
10570- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 99pc duty cycle)	X	4.71	67.51	16.83	0.46	150.0	± 9.6 %
100	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Y	4.59	67.18	16.60		150.0	
		Z	4.57	67.54	16.78		150.0	
10571- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	Х	1.08	63.64	15.05	0.46	130.0	± 9.6 %
		Y	0.98	62.63	14.12		130.0	
		Z	1.06	63.58	14.89		130.0	
10572- AAA	IEEE 802,11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.08	64.13	15.38	0.46	130.0	± 9.6 %
		Y	0.98	63.05	14.41		130.0	
		Z	1.07	64.06	15.22	-	130.0	i gu
10573- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	1.08	77.41	20.56	0.46	130.0	± 9.6 %
		Y	0.73	71.46	16.79		130.0	
		Z	0.99	75.97	19.89		130.0	
10574- AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	1.10	68.88	18.01	0.46	130.0	± 9.6 %
		Y	0.95	66.93	16.52		130.0	
		T.	0.00	00.33	10.02		130.0	

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10575- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 6 Mbps, 90pc duty cycle)	X	4.42	66.59	16.28	0.46	130.0	± 9.6 %
interior .		Y	4.31	66.26	16.05		130.0	
		Z	4.30	66.63	16.21		130.0	
10576- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 9 Mbps, 90pc duty cycle)	X	4.45	66.80	16.37	0.46	130.0	± 9.6 %
		Y	4.34	66.48	16.14		130.0	
		Z	4.33	66.87	16.32		130.0	
10577-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X	4.61	67.03	16.52	0.46	130.0	± 9.6 %
AAA	OFDM, 12 Mbps, 90pc duty cycle)	Y	4.49	66.71	16.29	0.40	130.0	1 3.0 %
		Z	4.48	67.07				
10578-	IEEE 802.11g WiFi 2.4 GHz (DSSS-	X			16.45	0.40	130.0	2000
AAA	OFDM, 18 Mbps, 90pc duty cycle)	1552	4.51	67.18	16.63	0.46	130.0	±9.6 %
		Y	4.40	66.85	16.40		130.0	
		Z	4.39	67.23	16.57		130.0	
10579- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 24 Mbps, 90pc duty cycle)	Х	4.26	66.33	15.85	0.46	130.0	±9.6 %
		Y	4.14	65.96	15.59		130.0	
		Z	4.13	66.29	15.75		130.0	
10580- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 36 Mbps, 90pc duty cycle)	X	4.29	66.37	15.87	0.46	130.0	± 9.6 %
		Y	4.17	66.01	15.60		130.0	
	CONTRACTOR OF THE STATE OF THE	Z	4.14	66.28	15.72		130.0	d synason
10581- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 48 Mbps, 90pc duty cycle)	X	4.43	67.26	16.60	0.46	130.0	± 9.6 %
		Y	4.31	66.92	16.36		130.0	
III W	Large sall and the sale in the	Z	4.31	67.34	16.57		130.0	
10582- AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS- OFDM, 54 Mbps, 90pc duty cycle)	Х	4.19	66.09	15.63	0.46	130.0	±9.6 %
		Y	4.07	65.73	15.36		130.0	
		Z	4.05	66.04	15.51		130.0	
10583- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.42	66.59	16.28	0.46	130.0	± 9.6 %
		Y	4.31	66.26	16.05		130.0	
		Z	4.30	66.63	16.21		130.0	
10584- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	х	4.45	66.80	16.37	0.46	130.0	± 9.6 %
		Y	4.34	66.48	16,14		130.0	-
		Z	4.33	66.87	16.32		130.0	
10585- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	4.61	67.03	16.52	0.46	130.0	± 9.6 %
9 112	111010100000000000000000000000000000000	Y	4.49	66.71	16.29		130.0	
		Z	4.48	67.07	16.45		130.0	
10586- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	4.51	67.18	16.63	0.46	130.0	± 9.6 %
	1	Y	4.40	66.85	16.40		130.0	
		Z	4.39	67.23	16.57		130.0	
10587- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.26	66.33	15.85	0.46	130.0	± 9.6 %
	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Y	4.14	65.96	15.59		130.0	
		Z	4.13	66.29	15.75		130.0	
10588- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.29	66.37	15.87	0.46	130.0	± 9.6 %
		Y	4.17	66.01	15.60		130.0	
		Z	4.14	66.28	15.72		130.0	
10589- AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.43	67.26	16.60	0.46	130.0	± 9.6 %
7712	mopo, oopo dati ojatoj	Y	4.31	66.92	16.36		130.0	
		Z	4.31	67.34	16.57		130.0	
10590-	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54	X	4.19	66.09	15.63	0.46	130.0	±9.6 %
AAB	Mbps, 90pc duty cycle)	111550	0.00000	5005000	7050078051	V.40	0.00000	1 3.0 76
		Y	4.07	65.73	15.36		130.0	
		Z	4.05	66.04	15.51		130.0	

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10591- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.58	66.69	16.41	0.46	130.0	± 9.6 %
		Y	4.47	66.39	16.20		130.0	
		Z	4.47	66.76	16.36		130.0	
10592- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	4.69	66.97	16.53	0.46	130.0	± 9.6 %
	moon, sopo and of sion	Y	4.58	66.66	16.32		130.0	
		Z	4.56	67.00	16.47		130.0	
10593-	IEEE 802.11n (HT Mixed, 20MHz,	X	4.61	66.84	16.38	0.46	130.0	± 9.6 %
AAB	MCS2, 90pc duty cycle)	7500	1100517	120250	1000000	0.40	FRANCE.	1 9.0 %
		Y	4.49	66.52	16.16		130.0	
		Z	4.48	66.87	16.32		130.0	
10594- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	4.66	67.02	16.56	0.46	130.0	± 9.6 %
	The state of the s	Y	4.55	66.71	16.34		130.0	
		Z	4.54	67.06	16.50		130.0	
10595- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	4.63	67.00	16.46	0.46	130.0	± 9.6 %
167212		Y	4.51	66.68	16.25		130.0	
		Z	4.50	67.04	16.41	41	130.0	
10596-	IEEE 802.11n (HT Mixed, 20MHz,	X	4.56	66.95	16.45	0.46	130.0	± 9.6 %
AAB	MCS5, 90pc duty cycle)	72747	Means	10130836	135563611.	TREMESE:	23174362	10/70/560900
77920	STATE OF THE STATE	Y	4.44	66.62	16.22		130.0	
		Z	4.42	66.95	16.38		130.0	
10597- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	×	4.51	66.82	16.30	0.46	130.0	± 9.6 %
0.10	mood, dopo daty dyddy	Y	4.39	66.48	16.06		130.0	
		Z	4.38	66.82	16.22		130.0	
10598- AAB	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	×	4,51	67.06	16.58	0.46	130.0	± 9.6 %
70.0	moor, supe daty cycley	Y	4.39	66.73	16.35		130.0	
		Z	4.39	67.10	16.52		130.0	
10599- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	×	5.26	67,16	16.67	0.46	130.0	± 9.6 %
MAD	Wicoo, sope duty cycle)	Y	5.19	66.95	16.55		130.0	
		Z	5.18	67.23	16.69		130.0	
10600- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.35	67.49	16.81	0.46	130.0	± 9.6 %
MD	MCS1, Sope daty cycle)	Y	5.29	67.35	16.72		130.0	
		Z	5.23	67.44	16.76		130.0	
10601- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.26	67.29	16.73	0.46	130.0	± 9.6 %
MMD	MC32, Supe duty cycle)	Y	5.19	67.12	16.62		130.0	
			5.20	67.45	16.79		130.0	
10602-	IEEE 802.11n (HT Mixed, 40MHz,	Z X	5.35	67.45	16.64	0.46	130.0	± 9.6 %
AAB	MCS3, 90pc duty cycle)	Y	5,27	67.40	16.52		120.0	-
				67.10	16.53		130.0	
10000	IEEE 900 11a /UT March 40M/	Z	5.22	67.23	16.59	0.40	130.0	1000
10603- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.42	67.60	16.94	0.46	130.0	± 9.6 %
		Y	5,33	67,37	16.81		130.0	
		Z	5.26	67.44	16.84		130.0	
10604- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	×	5.29	67.20	16.71	0.46	130.0	± 9.6 %
~~~	ALTONO DE LA CONTROLE	Y	5.19	66.89	16.54		130.0	
		Z	5.14	67.01	16.59		130.0	
10605- AAB	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	×	5.34	67.34	16.78	0.46	130.0	± 9.6 %
		Y	5.26	67.13	16.66		130.0	
		Z	5.20	67.25	16.72		130.0	
			5.14	66.81	16.37	0.46	130.0	± 9.6 %
	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90nc duty cycle)	X	200	3000	DESCRIBE OF	- Construction	- Williams	X41000000
10606- AAB	MCS7, 90pc duty cycle)	Y	5.06	66.62	16.25	1000000	130.0	201202100

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10607- AAB	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	×	4.43	66.05	16.06	0.46	130.0	± 9.6 %
1.7		Y	4.31	65.70	15.83		130.0	
		Z	4.32	66.12	16.02		130.0	
10608- AAB	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	4.56	66.36	16.20	0.46	130.0	± 9.6 %
	- I - I - I - I - I - I - I - I - I - I	Y	4.44	66.01	15.97		130.0	
		Z	4.43	66.38	16.15		130.0	
10609- AAB	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	×	4.46	66.19	16.02	0.46	130.0	± 9.6 %
ride collection		Y	4.34	65.83	15.77		130.0	
		Z	4.33	66.21	15.96		130.0	
10610- AAB	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	×	4.51	66.37	16.19	0.46	130.0	± 9.6 %
		Y	4.39	66.01	15.96		130.0	
		Z	4.38	66.40	16.14		130.0	
10611- AAB	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	×	4.42	66.15	16.03	0.46	130.0	± 9.6 %
		Y	4.30	65.79	15.79		130.0	
		Z	4.29	66.16	15.97	40,000	130.0	- Inches
10612- AAB	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.41	66.27	16.06	0.46	130.0	± 9.6 %
		Y	4.28	65.89	15.81		130.0	
	Control of the Contro	Z	4.26	66.23	15.98	harantifen.	130.0	
10613- AAB	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.40	66.08	15.90	0.46	130.0	± 9.6 %
		Y	4.28	65.70	15.65		130.0	
(C		Z	4.26	66.05	15.81	00000	130.0	
10614- AAB	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.38	66.33	16.17	0.46	130.0	± 9.6 %
		Y	4.25	65.95	15.92		130.0	
	A WAR I STATE THE TAX TO THE WINDOWS AND A 1994 THE TAX	Z	4.25	66.33	16.10	A	130.0	
10615- AAB	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4,41	65.98	15.79	0.46	130.0	± 9.6 %
		Y	4.29	65.61	15.54		130.0	
macues.	AND HERE THE PERSON AND SERVICE THE PERSON	Z	4.27	65.99	15.72		130.0	
10616- AAB	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	×	5.07	66.34	16.25	0.46	130.0	± 9.6 %
		Y	4.97	66.04	16.07		130.0	
		Z	4.96	66.31	16.21		130.0	
10617- AAB	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	×	5.10	66.45	16.28	0.46	130.0	± 9.6 %
		Y	5.00	66.15	16.11		130.0	
		Z	4.98	66.39	16.23		130.0	- 18/8-90
10618- AAB	IEEE 802.11ac WiFI (40MHz, MCS2, 90pc duty cycle)	×	5.02	66.53	16.33	0.46	130.0	± 9.6 %
		Y	4.91	66.19	16.14		130.0	
		Z	4.89	66.45	16.27		130.0	- 000
10619- AAB	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	×	5.04	66.36	16.18	0.46	130.0	± 9.6 %
		Y	4.96	66.11	16.03		130.0	
	Haraman Marie and Haraman Resident	Z	4.94	66.38	16.17	1000	130.0	
10620- AAB	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	×	5.11	66.35	16.22	0.46	130.0	± 9.6 %
		Y	5.01	66.06	16.05		130.0	
		Z	4.98	66.26	16.16		130.0	
10621- AAB	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	×	5.12	66.47	16.41	0.46	130.0	±9.6 %
		Y	5.02	66,16	16.23		130.0	
		Z	5.00	66.43	16.37		130.0	No. II
10622- AAB	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	×	5.10	66.55	16.44	0.46	130.0	±9.6 %
	* * * * * * * * * * * * * * * * * * *	Y	5.00	66.25	16.27		130.0	
		Z		66.50				

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10623- AAB	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	Х	5.00	66.11	16.08	0.46	130.0	± 9.6 %
		Y	4.90	65.81	15.90		130.0	
		Z	4.89	66.10	16.05		130.0	1 50
10624- AAB	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.19	66.37	16.28	0.46	130.0	± 9.6 %
		Y	5.10	66.09	16.12		130.0	
		2	5.07	66.34	16.24		130.0	
10625-	IEEE 802.11ac WiFi (40MHz, MCS9,	X	5.27	66.50	16.40	0.46	130.0	± 9.6 %
AAB	90pc duty cycle)	Y	5.19	66.27	16.28	3,30	130.0	20.0.0
		Z	5.16	66.52	16.40		130.0	
10626- AAB	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.40	66.37	16.20	0.46	130.0	± 9.6 %
7410	Sope daty cycle)	Y	5.31	66.07	16,04		130.0	
		Z	5.31	66.31	16.17		130.0	
10627-	IEEE 802.11ac WiFi (80MHz, MCS1,	X	5.62	66.96	16.47	0.46	130.0	± 9.6 %
AAB	90pc duty cycle)	Y	7003850	DESERVER III	(1000011A)	0.40	377755	£ 9.0 %
			5.56	66.76	16.37		130.0	
10000	IEEE 000 44 MIEI 1004 H III 14000	Z	5.52	66.91	16.44	0.40	130.0	1500
10628- AAB	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	×	5.39	66.34	16.09	0.46	130.0	± 9.6 %
		Y	5.30	66.04	15.92		130.0	
		Z	5.29	66.26	16.04		130.0	
10629- AAB	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	×	5.50	66.54	16.19	0.46	130.0	± 9.6 %
		Y	5,44	66.36	16.08		130.0	
		Z	5.44	66.63	16.23		130.0	
10630- AAB	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	×	5.71	67.39	16.62	0.46	130.0	± 9.6 %
7.5		Y	5.64	67.17	16.50		130.0	
		Z	5.54	67.11	16.48	-	130.0	
10631- AAB	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	×	5.70	67.46	16.84	0.46	130.0	± 9.6 %
	Contract to the state of the st	Y	5.61	67.18	16.70		130.0	
		Z	5.56	67.29	16.76		130.0	
10632- AAB	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	×	5.63	67.17	16.72	0.46	130.0	± 9.6 %
10-11	Total Section 1	Y	5.58	67.02	16.64		130.0	
	CLEU LA	Z	5.57	67.27	16.77		130.0	
10633- AAB	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	×	5.42	66.43	16.17	0.46	130.0	± 9.6 %
		Y	5.32	66.10	15.99		130.0	
		Z	5.30	66.32	16.11		130.0	
10634- AAB	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.45	66.63	16.32	0.46	130.0	± 9.6 %
HILLS.		Y	5.35	66.31	16.16		130.0	
		Z	5.35	66.57	16.29		130.0	
10635- AAB	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.30	65.85	15.65	0.46	130.0	± 9.6 %
-		Y	5.21	65.54	15.48		130.0	
		Ż	5.19	65.76	15.60		130.0	
10636- AAC	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	×	5.84	66.72	16.29	0.46	130.0	± 9.6 %
70200E-		Y	5.76	66.45	16.15		130.0	
		Z	5.76	66.66	16.26		130.0	
10637- AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	×	5.95	67.01	16.43	0.46	130.0	± 9.6 %
		Y	5.88	66.76	16.30		130.0	
		Z	5.85	66.89	16.37		130.0	
10638-	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	5.98	67.09	16.44	0.46	130.0	± 9.6 %
AAC								
AAC	sope daty cycle)	Y	5.91	66.84	16.31		130.0	

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10639-	IEEE 802.11ac WiFi (160MHz, MCS3,	X	5.93	66.96	16.42	0.46	130.0	± 9.6 %
AAC	90pc duty cycle)	1					100.0	20.070
		Y	5.85	66.68	16.27		130.0	
10010	IEEE 000 44 - 11/15 (40014) - 1400	Z	5.84	66.87	16.37		130.0	
10640- AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	5.89	66.83	16.30	0.46	130.0	± 9.6 %
		Y	5.79	66.50	16.13		130.0	
10011		Z	5.76	66.65	16.20		130.0	
10641- AAC	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	5.99	66.93	16.36	0.46	130.0	± 9.6 %
		Y	5.93	66.70	16.25		130.0	
10010	1555 000 44 1455 7150 E	Z	5.89	66.83	16.32		130.0	
10642- AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.01	67.13	16.63	0.46	130.0	± 9.6 %
		Y	5.93	66.84	16.49		130.0	
10643-	UFFF 000 44 - 140FF (4004 H) 440 FF	Z	5.91	67.00	16.57		130.0	-
AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	5.86	66.81	16.36	0.46	130.0	± 9.6 %
		Y	5.78	66.52	16.22		130.0	
10011	IEEE AAA 11 MEE	Z	5.75	66.66	16.29		130.0	
10644- AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	5.91	66.99	16,47	0.46	130.0	± 9.6 %
		Y	5.82	66.67	16.31		130.0	
1001-		Z	5.80	66.82	16.38		130.0	
10645- AAC	IEEE 802.11ac WIFI (160MHz, MCS9, 90pc duty cycle)	X	6.04	67.04	16.47	0.46	130.0	± 9.6 %
		Y	5.97	66.82	16.36		130.0	
		Z	5.92	66.90	16.40		130.0	
10646- AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	X	5.85	87.94	30.48	9.30	60.0	± 9.6 %
		Y	5.37	85.81	29.63		60.0	
		Z	4,49	83.14	29.09		60.0	
10647- AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	5.17	85.51	29.66	9.30	60.0	± 9.6 %
		Y	4.78	83.60	28.89		60.0	
		Z	4.02	80.87	28.26		60.0	
10648- AAA	CDMA2000 (1x Advanced)	X	0.51	61.76	8.43	0.00	150.0	±9.6 %
		Y	0.38	60.00	6.13		150.0	
		Z	0.38	60.10	6.48		150.0	
10652- AAB	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.13	65.98	15.78	2.23	80.0	±9.6 %
	1 - 30/A - 7/2 31 <del>4</del>	Y	2.93	65.12	15.15		80.0	
		Z	3.02	66.07	15.57		80.0	
10653- AAB	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	X	3.69	65.40	16.13	2.23	80.0	± 9.6 %
	- 22(19)1 - 17 - 19)1	Y	3.54	64.83	15.74		80.0	
		Z	3.60	65.47	16.04		80.0	
10654- AAB	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	X	3.72	65.03	16.17	2.23	80.0	± 9.6 %
INCOM.	TO THE STATE OF TH	Y	3.58	64.50	15.83		80.0	
		Z	3.65	65.07	16.11		80.0	
10655- AAB	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	3.80	64.95	16.21	2.23	80.0	± 9.6 %
tree from the	1 m x 1 m m x 1 200 m 2 m 1 m 1 m / 2 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m	Y	3.67	64.43	15.88		80.0	
		Z	3.74	64.95	16.16	124	80.0	
10658- AAA	Pulse Waveform (200Hz, 10%)	×	4.43	71.88	12.89	10.00	50.0	±9.6 %
THE TRANSPORT		Y	2.96	67.08	10.79		50.0	
		Z	4.92	73.02	13.29		50.0	
10659- AAA	Pulse Waveform (200Hz, 20%)	×	21.85	87.99	16.66	6.99	60.0	± 9.6 %
A-14-14EF7		Y	1.49	64.48	8.54		60.0	

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#### EX3DV4-SN:7494

February 26, 2018

10660- AAA	Pulse Waveform (200Hz, 40%)	×	100.00	100.24	18.17	3.98	80.0	± 9.6 %
		Y	0.44	60.00	5.03		80.0	
	ALLOW THE THE PROPERTY OF THE PARTY OF THE P	Z	100.00	101.16	18.48		80.0	CONTRACTOR
10661- AAA	Pulse Waveform (200Hz, 60%)	X	100.00	101.13	17.57	2.22	100.0	± 9.6 %
		Y	0.24	60.00	3.65		100.0	
V=2.50.70		Z	100.00	102.26	17.94		100.0	
10662- AAA	Pulse Waveform (200Hz, 80%)	X	100.00	99.08	15.66	0.97	120.0	± 9.6 %
		Y	3.24	108.92	7.51		120.0	
		Z	100.00	98.42	15.34		120.0	

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

# 1.1. 150 Dipole Calibration Certificate

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





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

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

Accreditation No.: SCS 0108

Client

CCIC-HTW (Auden)

Certificate No: CLA150-4024\_Feb18

Diject	CLA150 - SN: 402	24	
Calibration procedure(s)	QA CAL-15.v8 Calibration process	dure for system validation source	s below 700 MHz
Calibration date:	February 21, 2018	3	
This calibration certificate docume The measurements and the uncer	ents the traceability to natio tainties with confidence pr	onal standards, which realize the physical unit obability are given on the following pages and	is of measurements (SI). If are part of the certificate.
All calibrations have been conduc Calibration Equipment used (M&T		y facility: environment temperature (22 ± 3)°C	and humidity < 70%.
	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Primary Standards	SN: 104778	04-Apr-17 (No. 217-02521/02522)	Apr-18
Power meter NRP	SN: 104778 SN: 103244	04-Apr-17 (No. 217-02521/12522)	Apr-18
ower sensor NRP-Z91	SN: 103244 SN: 103245	04-Apr-17 (No. 217-02522)	Apr-18
ower sensor NRP-Z91		07-Apr-17 (No. 217-02528)	Apr-18
Reference 20 dB Attenuator	SN: 5277 (20x)	07-Apr-17 (No. 217-02529)	Apr-18
ype-N mismatch combination	SN: 5047.2 / 06327	30-Dec-17 (No. EX3-3877_Dec17)	Dec-18
	SN: 3877 SN: 654	24-Jul-17 (No. DAE4-654_Jul17)	Jul-18
	314. 004		
DAE4	ID#	Check Date (in house)	Scheduled Check
OAE4 Secondary Standards	14578508556 1445557	Check Date (in house) 06-Apr-16 (No. 217-02285/02284)	In house check: Jun-18
OAE4 Secondary Standards Power meter E4419B	ID#	The state of the s	In house check: Jun-18 In house check: Jun-18
DAE4 Secondary Standards Power meter E4419B Power sensor E4412A	ID# SN: GB41293874	06-Apr-16 (No. 217-02285/02284)	In house check: Jun-18 In house check: Jun-18 In house check: Jun-18
DAE4 Secondary Standards Power meter E44198 Power sensor E4412A Power sensor E4412A	ID # SN: GB41293874 SN: MY41498087	06-Apr-16 (No. 217-02285/02284) 06-Apr-16 (No. 217-02285)	In house check: Jun-18 In house check: Jun-18 In house check: Jun-18 In house check: Jun-18
DAE4 Secondary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A RF generator HP 8648C	ID # SN: GB41293874 SN: MY41498087 SN: 000110210	06-Apr-16 (No. 217-02285/02284) 06-Apr-16 (No. 217-02285) 06-Apr-16 (No. 217-02284	In house check: Jun-18 In house check: Jun-18 In house check: Jun-18
Reference Probe EX3DV4 DAE4  Secondary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A RF generator HP 8648C Network Analyzer HP 8753E	ID # SN: GB41293874 SN: MY41499067 SN: 000110210 SN: US3642U01700	06-Apr-16 (No. 217-02285/02284) 06-Apr-16 (No. 217-02285) 06-Apr-16 (No. 217-02284 04-Aug-99 (in house check Jun-16) 18-Oct-01 (in house check Oct-17) Function	In house check: Jun-18 In house check: Jun-18 In house check: Jun-18 In house check: Jun-18
Secondary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A RF generator HP 8648C	ID # SN: GB41293874 SN: MY41499067 SN: 000110210 SN: US3642U01700 SN: US37390585	06-Apr-16 (No. 217-02285/02284) 06-Apr-16 (No. 217-02285) 06-Apr-16 (No. 217-02284 04-Aug-99 (in house check Jun-16) 18-Oct-01 (in house check Oct-17)	In house check: Jun-18 In house check: Jun-18 In house check: Jun-18 In house check: Jun-18 In house check: Oct-18

Certificate No: CLA150-4024\_Feb18

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





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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

Glossary:

TSL ConvF

N/A

tissue simulating liquid

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

Calibration is Performed According to the Following Standards:

 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

 EC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-held 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"

#### Additional Documentation:

e) DASY4/5 System Handbook

#### Methods Applied and Interpretation of Parameters:

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

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

Certificate No: CLA150-4024\_Feb18

Page 2 of 8

#### Measurement Conditions

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

DASY Version	DASY5	V52.10.0
Extrapolation	Advanced Extrapolation	
Phantom	ELI4 Flat Phantom	Shell thickness: 2 ± 0.2 mm
EUT Positioning	Touch Position	
Zoom Scan Resolution	dx, dy = mm, dz = mm	Graded Ratio = 1.4 (Z direction)
Frequency	150 MHz ± 1 MHz	The second

Head TSL parameters
The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	52.3	0.76 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	50.3 ± 6 %	0.76 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

#### SAR result with Head TSL

SAR averaged over 1 cm3 (1 g) of Head TSL	Condition	
SAR measured	1 W input power	3.71 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	3.68 W/kg ± 18.4 % (k=2)

SAR averaged over 10 cm3 (10 g) of Head TSL	condition	
SAR measured	1 W input power	2.47 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	2.45 W/kg ± 18.0 % (k=2)

#### **Body TSL parameters**

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	61.9	0.80 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	62.1 ± 6 %	0.81 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

#### SAR result with Body TSL

SAR averaged over 1 cm3 (1 g) of Body TSL	Condition	
SAR measured	1 W input power	3.78 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	3.75 W/kg ± 18.4 % (k=2)

SAR averaged over 10 cm3 (10 g) of Body TSL	condition	
SAR measured	1 W input power	2.52 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	2.50 W/kg ± 18.0 % (k=2)

# Appendix (Additional assessments outside the scope of SCS 0108)

## Antenna Parameters with Head TSL

Impedance, transformed to feed point	44.4 Ω + 3.2 jΩ
Return Loss	- 23.2 dB

#### Antenna Parameters with Body TSL

Impedance, transformed to feed point	48.7 Ω + 7.0 jΩ	
Return Loss	- 22.9 dB	

#### Additional EUT Data

Manufactured by	SPEAG	
Manufactured on	July 10, 2017	

#### **DASY5 Validation Report for Head TSL**

Date: 21.02.2018

Test Laboratory: SPEAG, Zurich, Switzerland

#### DUT: CLA150; Type: CLA150; Serial: CLA150 - SN: 4024

Communication System: UID 0 - CW; Frequency: 150 MHz

Medium parameters used: f = 150 MHz;  $\sigma = 0.76$  S/m;  $\varepsilon_r = 50.3$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

#### DASY52 Configuration:

- Probe: EX3DV4 SN3877; ConvF(12.12, 12.12, 12.12); Calibrated: 30.12.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn654; Calibrated: 24.07.2017
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1003
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

#### CLA Calibration for HSL-LF Tissue/CLA150, touch configuration, Pin=1W/Area Scan

(81x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 5.21 W/kg

## CLA Calibration for HSL-LF Tissue/CLA150, touch configuration, Pin=1W/Zoom Scan,

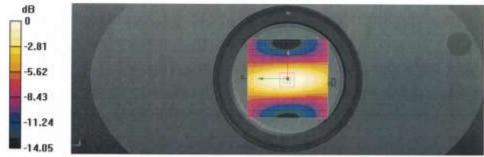
dist=1.4mm (8x10x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 82.22 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 6.91 W/kg

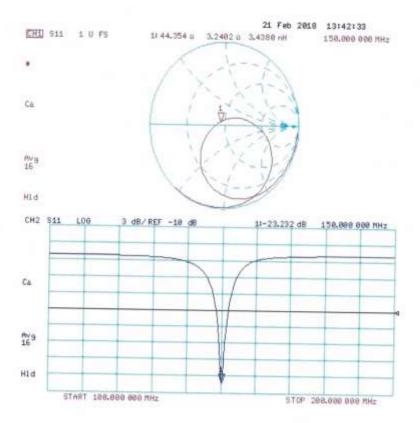
SAR(1 g) = 3.71 W/kg; SAR(10 g) = 2.47 W/kg

Maximum value of SAR (measured) = 5.18 W/kg



0 dB = 5.21 W/kg = 7.17 dBW/kg

# Impedance Measurement Plot for Head TSL



## DASY5 Validation Report for Body TSL

Date: 21.02.2018

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: CLA150; Type: CLA150; Serial: CLA150 - SN: 4024

Communication System: UID 0 - CW; Frequency: 150 MHz

Medium parameters used: f = 150 MHz;  $\sigma$  = 0.81 S/m;  $\epsilon_{c}$  = 62.1;  $\rho$  = 1000 kg/m<sup>3</sup>

Phantom section: Flat Section

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

#### DASY52 Configuration:

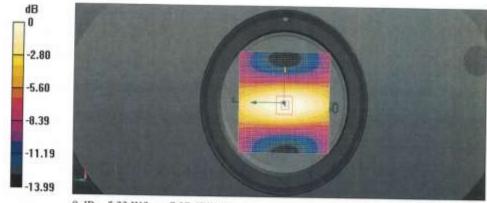
- Probe: EX3DV4 SN3877; ConvF(11.57, 11.57, 11.57); Calibrated: 30.12.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn654; Calibrated: 24.07.2017
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1003
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

# CLA Calibration for MSL-LF Tissue/CLA150, touch configuration, Pin=1W/Area Scan (81x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm Maximum value of SAR (interpolated) = 5.33 W/kg

CLA Calibration for MSL-LF Tissue/CLA150, touch configuration, Pin=1W/Zoom Scan, dist=1.4mm (8x10x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm Reference Value = 80.56 V/m; Power Drift = -0.08 dB

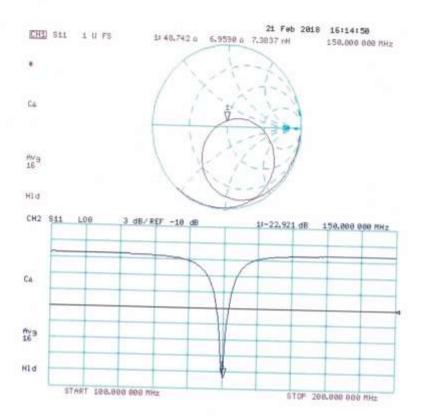
Peak SAR (extrapolated) = 7.08 W/kg

SAR(1 g) = 3.78 W/kg; SAR(10 g) = 2.52 W/kgMaximum value of SAR (measured) = 5.28 W/kg



0 dB = 5.33 W/kg = 7.27 dBW/kg

# Impedance Measurement Plot for Body TSL



## 1.2. 450 Dipole Calibration Certificate

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





S Schweizerischer Kallbrierdiens 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

CCIC-HTW (Auden)

Certificate No: D450V3-1102\_Feb18

bject	D450V3 - SN:110	2	
alibration procedure(s)	QA CAL-15.v8 Calibration process	dure for dipole validation kits belo	w 700 MHz
alibration date:	February 23, 201	В	
his calibration certificate docume	ents the traceability to natio	onal standards, which realize the physical uni	ts of measurements (SI).
he measurements and the uncer	rtainties with confidence pr	obability are given on the following pages and	d are part of the certificate.
	dead in the elegand laborator	y facility: environment temperature (22 ± 3)°C	and humidity < 70%.
All castrations have been conduc	ned in the closed laborator	menny, without the persons (see 3.4)	CONTRACTOR NOT STATE
Calibration Equipment used (M&)	E critical for calibration)		
	W1545W	Cai Date (Certificate No.)	Scheduled Calibration
Primary Standards	ID# SN: 104778	04-Apr-17 (No. 217-02521/02522)	Apr-18
Power meter NRP	SN: 104778 SN: 103244	04-Apr-17 (No. 217-02521)	Apr-18
ower sensor NRP-Z91	SN: 103244 SN: 103245	D4-Apr-17 (No. 217-02522)	Apr-18
Power sensor NRP-Z91	SN: 5277 (20x)	07-Apr-17 (No. 217-02528)	Apr-18
Reference 20 dB Attenuator	SN: 5047.2 / 06327	07-Apr-17 (No. 217-02529)	Apr-18
Type-N mismatch combination	SN: 3877	30-Dec-17 (No. EX3-3877_Dec17)	Dec-16
		24-Jul-17 (No. DAE4-654_Jul17)	Jul-18
Reference Probe EX3DV4 DAE4	SN: 654		
DAE4			Scheduled Check
DAE4 Secondary Standards	ID#	Check Date (in house)	Scheduled Check In house check: Jun-18
OAE4 Secondary Standards Power meter E4419B	ID # SN: GB41293874	Check Date (in house) 06-Apr-16 (No. 217-02285/02284)	The state of the s
OAE4 Secondary Standards Power meter E4419B Power sensor E4412A	ID # SN: GB41293874 SN: MY41496067	Check Date (in house) 06-Apr-16 (No. 217-02285/02284) 06-Apr-16 (No. 217-02285)	In house check: Jun-18
DAE4 Secondary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A	ID # SN: GB41293874 SN: MY41496067 SN: 000110210	Check Date (in house) 06-Apr-16 (No. 217-02285/02284) 06-Apr-16 (No. 217-02285) 06-Apr-16 (No. 217-02284	In house check: Jun-18 In house check: Jun-18
DAE4 Secondary Standards Power meter E4419B Power sensor E4412A	ID # SN: GB41293874 SN: MY41496067	Check Date (in house) 06-Apr-16 (No. 217-02285/02284) 06-Apr-16 (No. 217-02285)	In house check: Jun-18 In house check: Jun-18 In house check: Jun-18
DAE4 Secondary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A RF generator HP 8648C	ID # SN: GB41293874 SN: MY41498067 SN: 000110210 SN: US3842U01700 SN: US37390585	Check Date (in house)  06-Apr-16 (No. 217-02285/02284)  06-Apr-16 (No. 217-02285)  06-Apr-16 (No. 217-02284  04-Aug-99 (in house check Jun-16)  18-Oct-01 (in house check Oct-17)	In house check: Jun-18 In house check: Jun-18 In house check: Jun-18 In house check: Jun-18
Secondary Standards Power meter E44198 Power sensor E4412A Power sensor E4412A RF generator HP 8648C Network Analyzer HP 8753E	ID # SN: GB41293874 SN: MY41498067 SN: 000110210 SN: US3642U01700 SN: US37390585	Check Date (in house)  06-Apr-16 (No. 217-02285/02284)  06-Apr-16 (No. 217-02285)  06-Apr-16 (No. 217-02284  04-Aug-99 (in house check Jun-16)  18-Oct-01 (in house check Oct-17)  Function	In house check: Jun-18 In house check: Jun-18 In house check: Jun-18 In house check: Jun-18 In house check: Oct-18
DAE4 Secondary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A RF generator HP 8648C	ID # SN: GB41293874 SN: MY41498067 SN: 000110210 SN: US3842U01700 SN: US37390585	Check Date (in house)  06-Apr-16 (No. 217-02285/02284)  06-Apr-16 (No. 217-02285)  06-Apr-16 (No. 217-02284  04-Aug-99 (in house check Jun-16)  18-Oct-01 (in house check Oct-17)	In house check: Jun-18 In house check: Jun-18 In house check: Jun-18 In house check: Jun-18 In house check: Oct-18

Certificate No: D450V3-1102\_Feb18

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





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

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to t

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

Glossary:

N/A

TSL tis ConvF se

tissue simulating liquid sensitivity in TSL / NORM x,y,z not applicable or not measured

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 hand-held 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"

#### **Additional Documentation:**

e) DASY4/5 System Handbook

#### Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end
  of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed
  point exactly below the center marking of the flat phantom section, with the arms oriented
  parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole
  positioned under the liquid filled phantom. The impedance stated is transformed from the
  measurement at the SMA connector to the feed point. The Return Loss ensures low
  reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point.
   No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

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

Certificate No: D450V3-1102\_Feb18

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#### **Measurement Conditions**

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

DASY Version	DASY5	V52.10.0
Extrapolation	Advanced Extrapolation	
Phantom	ELI4 Flat Phantom	Shell thickness: 2 ± 0.2 mm
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	450 MHz ± 1 MHz	

Head TSL parameters
The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	43.5	0.87 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) "C	43.7 ± 6 %	0.87 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		0419

#### SAR result with Head TSL

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	1.12 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	4.48 W/kg ± 18.1 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	250 mW input power	0.749 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	3.00 W/kg ± 17.6 % (k=2)

Body TSL parameters
The following parameters and calculations were applied.

1911-1911 - 11 Miles -	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	56.7	0.94 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	56.0 ± 6 %	0.93 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

#### SAR result with Body TSL

SAR averaged over 1 cm2 (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	1.11 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	4.47 W/kg ± 18.1 % (k=2)

SAR averaged over 10 cm3 (10 g) of Body TSL	condition	
SAR measured	250 mW input power	0.749 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	3.01 W/kg ± 17.6 % (k=2)

#### Appendix (Additional assessments outside the scope of SCS 0108)

#### Antenna Parameters with Head TSL

Impedance, transformed to feed point	59.6 Ω - 0.2  Ω	
Return Loss	- 21.1 dB	

#### Antenna Parameters with Body TSL

Impedance, transformed to feed point	55.1 Ω - 6.9 jΩ	
Return Loss	- 21.8 dB	

#### General Antenna Parameters and Design

Value of the practice of the property of the p	
Electrical Delay (one direction)	1.348 ns
	11.00-10.100

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

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

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

#### Additional EUT Data

Manufactured by	SPEAG
Manufactured on	October 05, 2017

#### **DASY5 Validation Report for Head TSL**

Date: 23.02.2018

Test Laboratory: SPEAG, Zurich, Switzerland

#### DUT: Dipole 450 MHz D450V3; Type: D450V3; Serial: D450V3 - SN:1102

Communication System: UID 0 - CW; Frequency: 450 MHz

Medium parameters used: f = 450 MHz;  $\sigma = 0.87 \text{ S/m}$ ;  $\varepsilon_c = 43.7$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

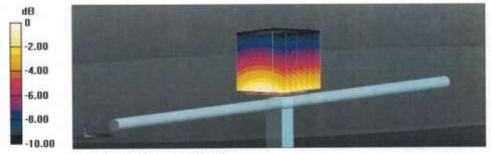
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

#### DASY52 Configuration:

- Probe: EX3DV4 SN3877; ConvF(10.5, 10.5, 10.5); Calibrated: 30.12.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn654; Calibrated: 24.07.2017
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1003
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

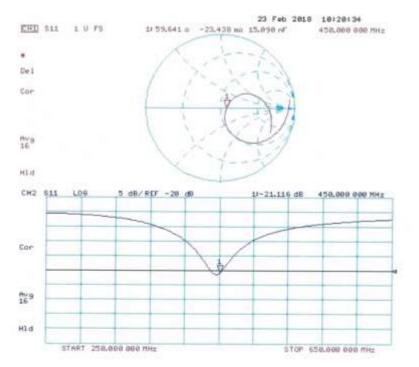
#### Dipole Calibration for Head Tissue/d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 43.13 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 1.73 W/kg SAR(1 g) = 1.12 W/kg; SAR(10 g) = 0.749 W/kg Maximum value of SAR (measured) = 1.51 W/kg



0 dB = 1.51 W/kg = 1.79 dBW/kg

#### Impedance Measurement Plot for Head TSL



#### **DASY5 Validation Report for Body TSL**

Date: 23.02.2018

Test Laboratory: SPEAG, Zurich, Switzerland

#### DUT: Dipole 450 MHz D450V3; Type: D450V3; Serial: D450V3 - SN:1102

Communication System: UID 0 - CW; Frequency: 450 MHz

Medium parameters used: f = 450 MHz;  $\sigma = 0.93$  S/m;  $\epsilon_r = 56$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

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

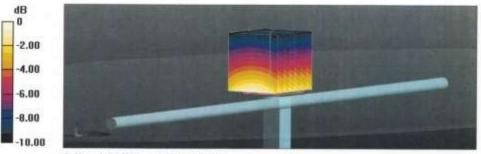
#### DASY52 Configuration:

- Probe: EX3DV4 SN3877; ConvF(10.8, 10.8, 10.8); Calibrated: 30.12.2017;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn654; Calibrated: 24.07.2017
- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:1003
- DASY52 52.10.0(1446); SEMCAD X 14.6.10(7417)

#### Dipole Calibration for Body Tissue/d=15mm, Pin=250mW/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 41.23 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 1.71 W/kg

SAR(1 g) = 1.11 W/kg; SAR(10 g) = 0.749 W/kgMaximum value of SAR (measured) = 1.50 W/kg



0 dB = 1.50 W/kg = 1.76 dBW/kg

# Impedance Measurement Plot for Body TSL

