



EX3DV4 – SN:3898

June 27, 2017

Probe EX3DV4

SN:3898

Manufactured: October 9, 2012
Calibrated: June 27, 2017

Calibrated for DASY/EASY Systems
(Note: non-compatible with DASY2 system!)



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DASY/EASY - Parameters of Probe: EX3DV4 - SN:3898**Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu\text{V}/(\text{V}/\text{m})^2$) ^A	0.38	0.35	0.31	$\pm 10.1\%$
DCP (mV) ^B	99.1	99.4	100.3	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Unc (k=2) ^E
0	CW	X	0.0	0.0	1.0	0.00	143.9	$\pm 2.7\%$
		Y	0.0	0.0	1.0		142.2	
		Z	0.0	0.0	1.0		145.7	

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

	C1 fF	C2 fF	α V^{-1}	T1 $\text{ms}\cdot\text{V}^{-2}$	T2 $\text{ms}\cdot\text{V}^{-1}$	T3 ms	T4 V^{-2}	T5 V^{-1}	T6
X	32.49	240.5	35.09	11.03	0.713	4.958	1.269	0.147	1.005
Y	33.00	245.0	35.30	9.807	0.625	4.966	1.221	0.120	1.005
Z	31.60	235.2	35.43	7.345	0.706	4.969	1.116	0.151	1.005

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 E^2 -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.



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DASY/EASY - Parameters of Probe: EX3DV4 - SN:3898**Calibration Parameter Determined in Head Tissue Simulating Media**

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	10.75	10.75	10.75	0.35	1.03	± 12.0 %
835	41.5	0.90	10.23	10.23	10.23	0.48	0.80	± 12.0 %
900	41.5	0.97	10.03	10.03	10.03	0.49	0.80	± 12.0 %
1750	40.1	1.37	8.63	8.63	8.63	0.37	0.80	± 12.0 %
1900	40.0	1.40	8.37	8.37	8.37	0.33	0.80	± 12.0 %
2000	40.0	1.40	8.36	8.36	8.36	0.35	0.80	± 12.0 %
2300	39.5	1.67	7.91	7.91	7.91	0.36	0.80	± 12.0 %
2450	39.2	1.80	7.55	7.55	7.55	0.39	0.80	± 12.0 %
2600	39.0	1.96	7.37	7.37	7.37	0.38	0.86	± 12.0 %
3500	37.9	2.91	7.31	7.31	7.31	0.25	1.25	± 13.1 %
5250	35.9	4.71	5.62	5.62	5.62	0.35	1.80	± 13.1 %
5600	35.5	5.07	5.03	5.03	5.03	0.40	1.80	± 13.1 %
5750	35.4	5.22	5.18	5.18	5.18	0.40	1.80	± 13.1 %

^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. 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 ± 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 ± 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 ± 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.

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DASY/EASY - Parameters of Probe: EX3DV4 - SN:3898

Calibration Parameter Determined in Body Tissue Simulating Media

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	10.45	10.45	10.45	0.52	0.82	± 12.0 %
835	55.2	0.97	10.40	10.40	10.40	0.49	0.80	± 12.0 %
900	55.0	1.05	10.32	10.32	10.32	0.47	0.80	± 12.0 %
1750	53.4	1.49	8.50	8.50	8.50	0.39	0.80	± 12.0 %
1900	53.3	1.52	8.17	8.17	8.17	0.35	0.84	± 12.0 %
2000	53.3	1.52	8.35	8.35	8.35	0.44	0.80	± 12.0 %
2300	52.9	1.81	7.95	7.95	7.95	0.41	0.80	± 12.0 %
2450	52.7	1.95	7.85	7.85	7.85	0.32	0.95	± 12.0 %
2600	52.5	2.16	7.51	7.51	7.51	0.26	0.95	± 12.0 %
3500	51.3	3.31	6.97	6.97	6.97	0.28	1.25	± 13.1 %
5250	48.9	5.36	5.13	5.13	5.13	0.40	1.90	± 13.1 %
5600	48.5	5.77	4.14	4.14	4.14	0.50	1.90	± 13.1 %
5750	48.3	5.94	4.50	4.50	4.50	0.50	1.90	± 13.1 %

^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. Above 5 GHz frequency validity can be extended to ± 110 MHz.

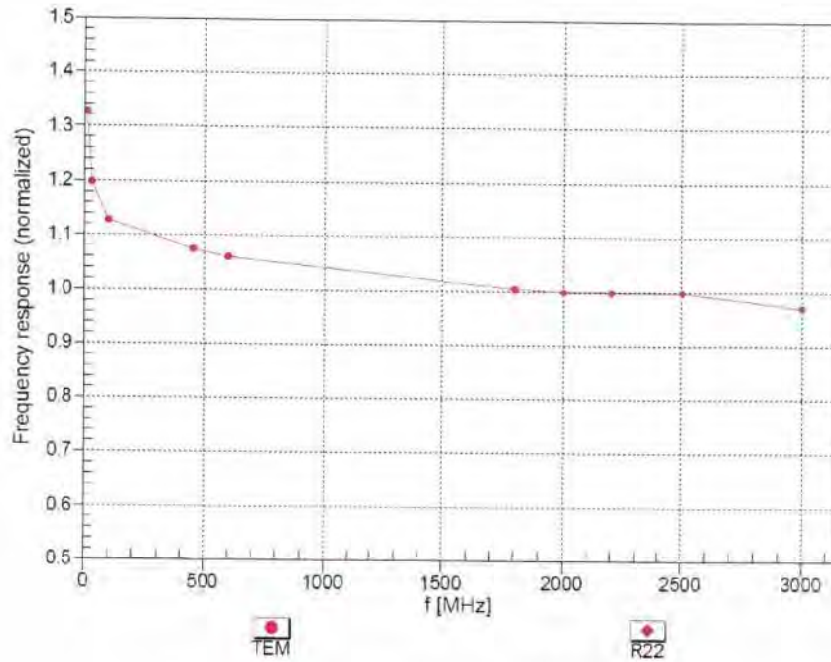
^F At frequencies below 3 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty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

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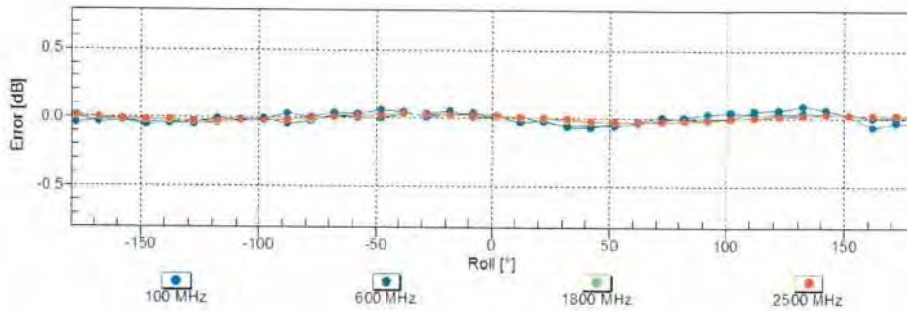
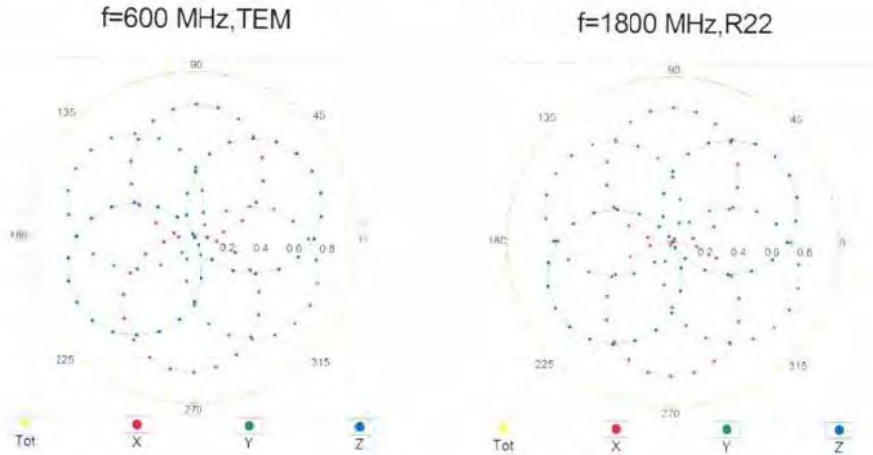
Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)

Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

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Receiving Pattern (ϕ), $\theta = 0^\circ$

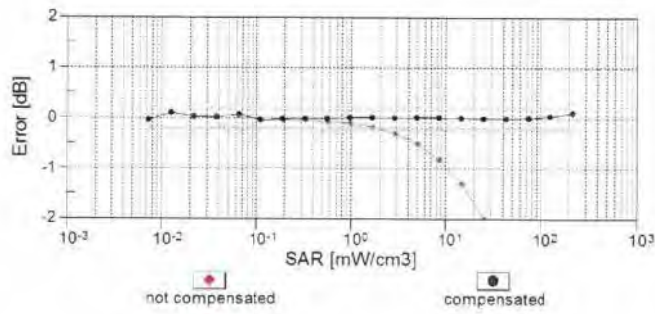
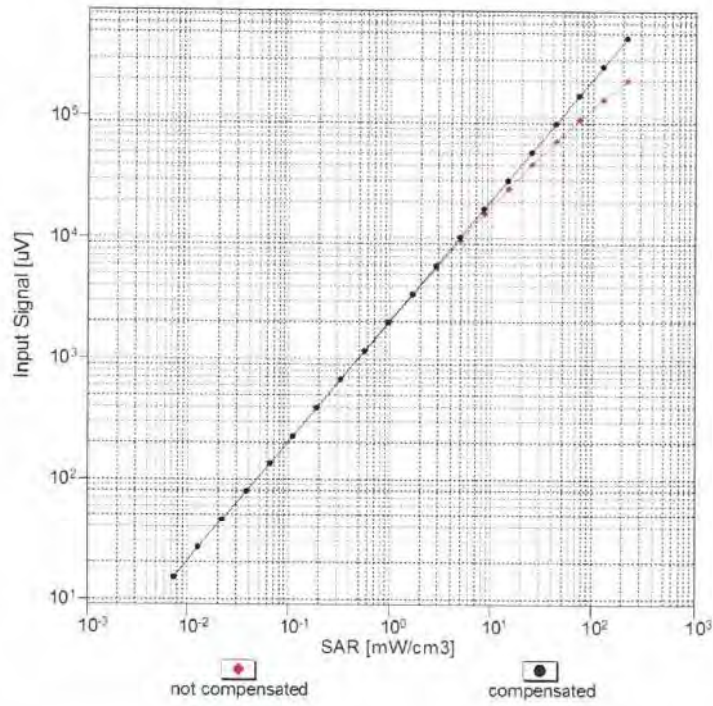


Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ (k=2)

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

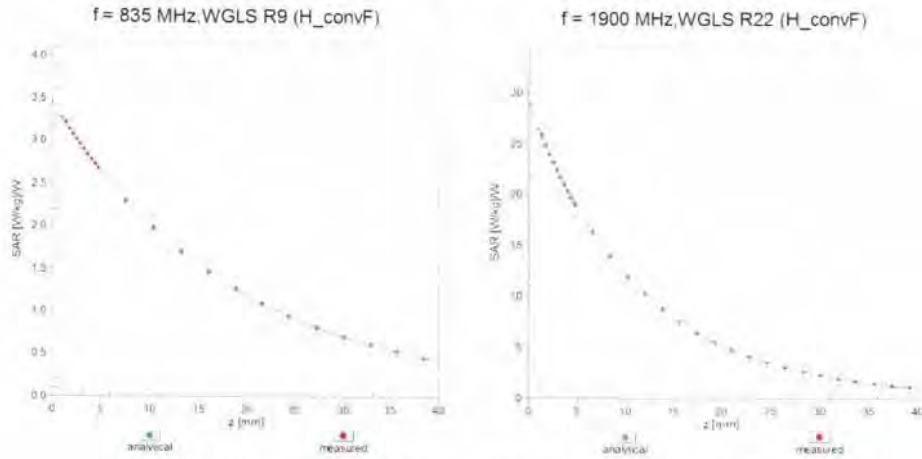


Uncertainty of Linearity Assessment: $\pm 0.6\%$ (k=2)

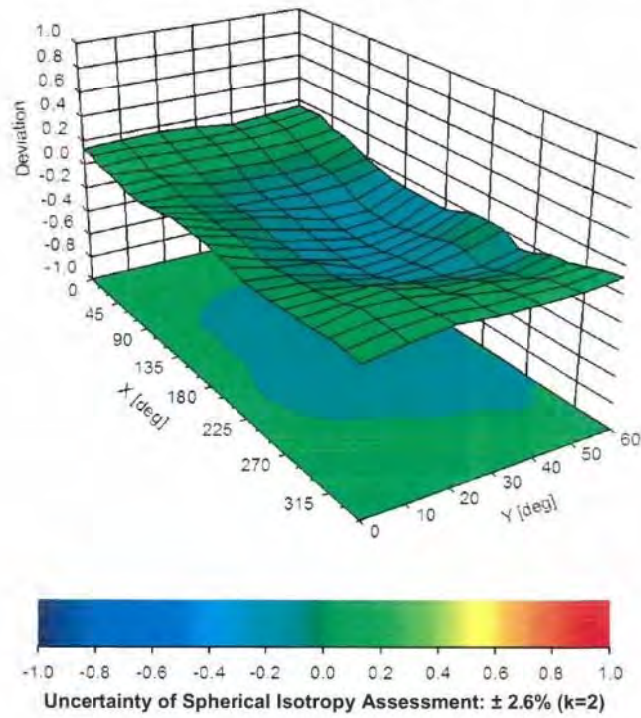
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Conversion Factor Assessment



Deviation from Isotropy in Liquid Error (ϕ, θ), $f = 900$ MHz





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DASY/EASY - Parameters of Probe: EX3DV4 - SN:3898**Other Probe Parameters**

Sensor Arrangement	Triangular
Connector Angle (°)	112
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm



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Appendix: Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB $\sqrt{\mu V}$	C	D dB	VR mV	Max Unc ^E (k=2)
0	CW	X	0.00	0.00	1.00	0.00	143.9	± 2.7 %
		Y	0.00	0.00	1.00		142.2	
		Z	0.00	0.00	1.00		145.7	
10010- CAA	SAR Validation (Square, 100ms, 10ms)	X	2.36	65.22	10.01	10.00	20.0	± 9.6 %
		Y	2.38	65.50	10.11		20.0	
		Z	2.49	65.99	10.50		20.0	
10011- CAB	UMTS-FDD (WCDMA)	X	0.97	66.94	14.95	0.00	150.0	± 9.6 %
		Y	1.04	68.03	15.67		150.0	
		Z	0.97	66.89	14.93		150.0	
10012- CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	1.16	63.59	14.83	0.41	150.0	± 9.6 %
		Y	1.18	63.88	15.16		150.0	
		Z	1.15	63.44	14.80		150.0	
10013- CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	X	4.63	66.61	16.74	1.46	150.0	± 9.6 %
		Y	4.65	66.69	16.86		150.0	
		Z	4.62	66.62	16.77		150.0	
10021- DAC	GSM-FDD (TDMA, GMSK)	X	9.40	81.38	17.52	9.39	50.0	± 9.6 %
		Y	16.05	87.81	19.48		50.0	
		Z	22.43	92.46	21.10		50.0	
10023- DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	7.11	77.84	16.31	9.57	50.0	± 9.6 %
		Y	10.05	82.09	17.71		50.0	
		Z	11.78	84.47	18.73		50.0	
10024- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	13.45	86.10	17.72	6.56	60.0	± 9.6 %
		Y	100.00	106.94	22.92		60.0	
		Z	100.00	108.65	23.66		60.0	
10025- DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	3.63	65.06	22.13	12.57	50.0	± 9.6 %
		Y	5.18	76.12	28.60		50.0	
		Z	3.25	61.92	20.33		50.0	
10026- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	6.62	83.09	28.34	9.56	60.0	± 9.6 %
		Y	7.13	86.03	30.02		60.0	
		Z	5.66	79.86	27.23		60.0	
10027- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	105.78	21.78	4.80	80.0	± 9.6 %
		Y	100.00	107.41	22.39		80.0	
		Z	100.00	109.53	23.24		80.0	
10028- DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	107.00	21.71	3.55	100.0	± 9.6 %
		Y	100.00	109.56	22.70		100.0	
		Z	100.00	112.11	23.68		100.0	
10029- DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	4.64	75.90	24.34	7.80	80.0	± 9.6 %
		Y	4.68	76.87	25.15		80.0	
		Z	4.08	73.46	23.48		80.0	
10030- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	5.90	78.01	14.62	5.30	70.0	± 9.6 %
		Y	25.51	92.34	18.68		70.0	
		Z	25.49	93.66	19.29		70.0	
10031- CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	106.02	20.18	1.88	100.0	± 9.6 %
		Y	100.00	109.92	21.67		100.0	
		Z	100.00	111.87	22.32		100.0	



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10032-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	X	100.00	114.56	22.90	1.17	100.0	± 9.6 %
		Y	100.00	122.28	25.84		100.0	
		Z	100.00	123.55	26.18		100.0	
10033-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	3.55	73.49	16.00	5.30	70.0	± 9.6 %
		Y	4.05	76.03	17.25		70.0	
		Z	3.36	73.75	16.36		70.0	
10034-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	X	1.68	68.28	12.61	1.88	100.0	± 9.6 %
		Y	1.85	69.87	13.55		100.0	
		Z	1.56	68.16	12.68		100.0	
10035-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	1.37	67.38	12.10	1.17	100.0	± 9.6 %
		Y	1.50	68.80	12.97		100.0	
		Z	1.28	67.19	12.08		100.0	
10036-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	3.90	74.92	16.61	5.30	70.0	± 9.6 %
		Y	4.61	77.96	18.03		70.0	
		Z	3.72	75.34	17.04		70.0	
10037-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	1.57	67.63	12.31	1.88	100.0	± 9.6 %
		Y	1.70	69.04	13.19		100.0	
		Z	1.45	67.44	12.35		100.0	
10038-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	1.37	67.55	12.30	1.17	100.0	± 9.6 %
		Y	1.50	69.01	13.19		100.0	
		Z	1.28	67.33	12.27		100.0	
10039-CAB	CDMA2000 (1xRTT, RC1)	X	1.30	69.04	12.94	0.00	150.0	± 9.6 %
		Y	1.55	71.17	14.03		150.0	
		Z	1.24	68.56	12.61		150.0	
10042-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	X	5.68	76.10	14.67	7.78	50.0	± 9.6 %
		Y	9.76	82.03	16.60		50.0	
		Z	12.77	85.55	17.89		50.0	
10044-CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.01	90.50	0.61	0.00	150.0	± 9.6 %
		Y	0.01	91.46	2.87		150.0	
		Z	0.01	90.61	1.44		150.0	
10048-CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	X	5.51	71.14	15.12	13.80	25.0	± 9.6 %
		Y	6.15	72.46	15.57		25.0	
		Z	6.71	73.40	16.16		25.0	
10049-CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	5.68	73.94	15.07	10.79	40.0	± 9.6 %
		Y	6.47	75.65	15.68		40.0	
		Z	7.05	76.86	16.35		40.0	
10056-CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	6.87	78.23	18.34	9.03	50.0	± 9.6 %
		Y	8.46	81.68	19.73		50.0	
		Z	7.33	79.69	19.06		50.0	
10058-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	3.79	72.47	22.17	6.55	100.0	± 9.6 %
		Y	3.76	72.88	22.68		100.0	
		Z	3.40	70.54	21.50		100.0	
10059-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	X	1.18	64.29	15.13	0.61	110.0	± 9.6 %
		Y	1.19	64.62	15.50		110.0	
		Z	1.15	64.01	15.07		110.0	
10060-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	2.28	80.40	18.85	1.30	110.0	± 9.6 %
		Y	3.16	86.37	22.34		110.0	
		Z	1.76	77.97	19.44		110.0	



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10061-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	1.88	72.36	18.12	2.04	110.0	± 9.6 %
		Y	1.96	73.75	19.06		110.0	
		Z	1.64	70.87	17.81		110.0	
10062-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.44	66.67	16.29	0.49	100.0	± 9.6 %
		Y	4.47	66.75	16.40		100.0	
		Z	4.43	66.68	16.31		100.0	
10063-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.45	66.73	16.35	0.72	100.0	± 9.6 %
		Y	4.47	66.82	16.46		100.0	
		Z	4.44	66.74	16.38		100.0	
10064-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	4.67	66.90	16.51	0.86	100.0	± 9.6 %
		Y	4.70	66.98	16.63		100.0	
		Z	4.66	66.90	16.54		100.0	
10065-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	4.54	66.69	16.54	1.21	100.0	± 9.6 %
		Y	4.57	66.78	16.66		100.0	
		Z	4.53	66.69	16.57		100.0	
10066-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	4.55	66.64	16.64	1.46	100.0	± 9.6 %
		Y	4.57	66.74	16.77		100.0	
		Z	4.53	66.63	16.67		100.0	
10067-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	4.82	66.89	17.07	2.04	100.0	± 9.6 %
		Y	4.85	67.00	17.21		100.0	
		Z	4.80	66.88	17.10		100.0	
10068-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	4.85	66.79	17.19	2.55	100.0	± 9.6 %
		Y	4.88	66.89	17.34		100.0	
		Z	4.84	66.77	17.22		100.0	
10069-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	4.91	66.79	17.35	2.67	100.0	± 9.6 %
		Y	4.94	66.90	17.51		100.0	
		Z	4.89	66.76	17.38		100.0	
10071-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	4.72	66.64	16.98	1.99	100.0	± 9.6 %
		Y	4.74	66.72	17.11		100.0	
		Z	4.70	66.64	17.01		100.0	
10072-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	4.66	66.81	17.11	2.30	100.0	± 9.6 %
		Y	4.68	66.91	17.25		100.0	
		Z	4.64	66.80	17.14		100.0	
10073-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	4.72	66.97	17.39	2.83	100.0	± 9.6 %
		Y	4.74	67.07	17.55		100.0	
		Z	4.70	66.94	17.43		100.0	
10074-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	4.74	66.94	17.53	3.30	100.0	± 9.6 %
		Y	4.76	67.04	17.69		100.0	
		Z	4.72	66.91	17.56		100.0	
10075-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	4.77	66.95	17.74	3.82	90.0	± 9.6 %
		Y	4.78	67.04	17.91		90.0	
		Z	4.74	66.89	17.77		90.0	
10076-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	4.81	66.85	17.91	4.15	90.0	± 9.6 %
		Y	4.82	66.94	18.08		90.0	
		Z	4.79	66.79	17.94		90.0	
10077-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	4.85	66.95	18.02	4.30	90.0	± 9.6 %
		Y	4.86	67.03	18.19		90.0	
		Z	4.82	66.88	18.05		90.0	



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10081-CAB	CDMA2000 (1xRTT, RC3)	X	0.66	64.51	10.46	0.00	150.0	± 9.6 %
		Y	0.73	65.64	11.22		150.0	
		Z	0.65	64.36	10.28		150.0	
10082-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	X	0.56	57.02	2.34	4.77	80.0	± 9.6 %
		Y	0.50	57.27	2.55		80.0	
		Z	0.72	60.56	4.69		80.0	
10090-DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	12.76	85.53	17.57	6.56	60.0	± 9.6 %
		Y	100.00	106.92	22.92		60.0	
		Z	100.00	108.63	23.67		60.0	
10097-CAB	UMTS-FDD (HSDPA)	X	1.81	68.44	15.60	0.00	150.0	± 9.6 %
		Y	1.88	69.07	16.03		150.0	
		Z	1.81	68.48	15.60		150.0	
10098-CAB	UMTS-FDD (HSUPA, Subtest 2)	X	1.77	68.36	15.57	0.00	150.0	± 9.6 %
		Y	1.84	69.01	16.01		150.0	
		Z	1.77	68.40	15.57		150.0	
10099-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	6.65	83.17	28.36	9.56	60.0	± 9.6 %
		Y	7.18	86.14	30.05		60.0	
		Z	5.69	79.94	27.25		60.0	
10100-CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	2.91	69.85	16.63	0.00	150.0	± 9.6 %
		Y	3.00	70.32	16.93		150.0	
		Z	2.90	69.77	16.63		150.0	
10101-CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.08	67.30	15.83	0.00	150.0	± 9.6 %
		Y	3.12	67.53	16.02		150.0	
		Z	3.07	67.26	15.83		150.0	
10102-CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	3.19	67.35	15.95	0.00	150.0	± 9.6 %
		Y	3.22	67.55	16.12		150.0	
		Z	3.18	67.32	15.96		150.0	
10103-CAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	5.34	73.16	19.00	3.98	65.0	± 9.6 %
		Y	5.40	73.67	19.39		65.0	
		Z	4.60	71.12	18.33		65.0	
10104-CAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	5.56	71.82	19.11	3.98	65.0	± 9.6 %
		Y	5.54	72.04	19.38		65.0	
		Z	5.21	71.00	18.89		65.0	
10105-CAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	5.34	70.90	19.01	3.98	65.0	± 9.6 %
		Y	5.32	71.12	19.27		65.0	
		Z	4.66	68.69	18.12		65.0	
10108-CAD	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	2.51	69.21	16.45	0.00	150.0	± 9.6 %
		Y	2.58	69.70	16.77		150.0	
		Z	2.50	69.15	16.45		150.0	
10109-CAD	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	2.72	67.32	15.69	0.00	150.0	± 9.6 %
		Y	2.77	67.58	15.90		150.0	
		Z	2.71	67.30	15.69		150.0	
10110-CAD	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	2.00	68.45	15.89	0.00	150.0	± 9.6 %
		Y	2.08	69.04	16.29		150.0	
		Z	1.99	68.40	15.88		150.0	
10111-CAD	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	2.48	68.76	16.00	0.00	150.0	± 9.6 %
		Y	2.54	69.09	16.25		150.0	
		Z	2.48	68.79	15.99		150.0	



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10112-CAD	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	2.85	67.43	15.79	0.00	150.0	± 9.6 %
		Y	2.89	67.66	15.98		150.0	
		Z	2.84	67.42	15.79		150.0	
10113-CAD	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.63	68.98	16.15	0.00	150.0	± 9.6 %
		Y	2.68	69.26	16.38		150.0	
		Z	2.62	69.01	16.14		150.0	
10114-CAB	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	4.93	67.18	16.42	0.00	150.0	± 9.6 %
		Y	4.96	67.24	16.50		150.0	
		Z	4.93	67.19	16.45		150.0	
10115-CAB	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	5.17	67.22	16.44	0.00	150.0	± 9.6 %
		Y	5.19	67.28	16.52		150.0	
		Z	5.16	67.22	16.46		150.0	
10116-CAB	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.00	67.33	16.43	0.00	150.0	± 9.6 %
		Y	5.03	67.41	16.51		150.0	
		Z	5.00	67.33	16.45		150.0	
10117-CAB	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	4.92	67.09	16.40	0.00	150.0	± 9.6 %
		Y	4.94	67.16	16.48		150.0	
		Z	4.91	67.08	16.41		150.0	
10118-CAB	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	X	5.24	67.41	16.54	0.00	150.0	± 9.6 %
		Y	5.27	67.48	16.62		150.0	
		Z	5.23	67.40	16.55		150.0	
10119-CAB	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	X	5.01	67.35	16.44	0.00	150.0	± 9.6 %
		Y	5.04	67.42	16.53		150.0	
		Z	5.01	67.36	16.47		150.0	
10140-CAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	3.20	67.37	15.86	0.00	150.0	± 9.6 %
		Y	3.24	67.57	16.03		150.0	
		Z	3.19	67.34	15.86		150.0	
10141-CAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	3.33	67.58	16.07	0.00	150.0	± 9.6 %
		Y	3.37	67.75	16.23		150.0	
		Z	3.32	67.56	16.09		150.0	
10142-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	1.77	68.44	15.19	0.00	150.0	± 9.6 %
		Y	1.85	69.19	15.67		150.0	
		Z	1.75	68.38	15.13		150.0	
10143-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	2.28	69.18	15.08	0.00	150.0	± 9.6 %
		Y	2.37	69.74	15.46		150.0	
		Z	2.25	69.10	14.98		150.0	
10144-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	1.90	65.81	12.85	0.00	150.0	± 9.6 %
		Y	1.97	66.25	13.19		150.0	
		Z	1.87	65.68	12.71		150.0	
10145-CAD	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	0.75	61.28	7.87	0.00	150.0	± 9.6 %
		Y	0.79	61.77	8.31		150.0	
		Z	0.72	60.96	7.53		150.0	
10146-CAD	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	0.94	60.26	6.31	0.00	150.0	± 9.6 %
		Y	0.97	60.64	6.68		150.0	
		Z	0.88	60.00	6.02		150.0	
10147-CAD	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	0.98	60.58	6.58	0.00	150.0	± 9.6 %
		Y	1.02	61.02	6.98		150.0	
		Z	0.91	60.11	6.15		150.0	



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10149-CAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	2.73	67.39	15.75	0.00	150.0	± 9.6 %
		Y	2.78	67.65	15.96		150.0	
		Z	2.72	67.37	15.75		150.0	
10150-CAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	2.86	67.50	15.84	0.00	150.0	± 9.6 %
		Y	2.90	67.73	16.03		150.0	
		Z	2.85	67.49	15.84		150.0	
10151-CAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	5.53	75.34	19.83	3.98	65.0	± 9.6 %
		Y	5.61	76.00	20.31		65.0	
		Z	5.08	74.50	19.70		65.0	
10152-CAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	5.02	71.45	18.44	3.98	65.0	± 9.6 %
		Y	5.02	71.77	18.77		65.0	
		Z	4.68	70.65	18.22		65.0	
10153-CAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	5.43	72.70	19.38	3.98	65.0	± 9.6 %
		Y	5.41	72.94	19.67		65.0	
		Z	5.06	71.88	19.17		65.0	
10154-CAD	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	2.05	68.86	16.15	0.00	150.0	± 9.6 %
		Y	2.12	69.44	16.53		150.0	
		Z	2.04	68.82	16.14		150.0	
10155-CAD	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.49	68.81	16.03	0.00	150.0	± 9.6 %
		Y	2.54	69.14	16.28		150.0	
		Z	2.48	68.84	16.03		150.0	
10156-CAD	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	1.58	68.16	14.58	0.00	150.0	± 9.6 %
		Y	1.68	69.02	15.13		150.0	
		Z	1.56	68.05	14.47		150.0	
10157-CAD	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	1.70	65.93	12.48	0.00	150.0	± 9.6 %
		Y	1.78	66.49	12.89		150.0	
		Z	1.66	65.72	12.29		150.0	
10158-CAD	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.64	69.08	16.22	0.00	150.0	± 9.6 %
		Y	2.69	69.36	16.44		150.0	
		Z	2.64	69.12	16.21		150.0	
10159-CAD	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	1.78	66.26	12.68	0.00	150.0	± 9.6 %
		Y	1.86	66.85	13.10		150.0	
		Z	1.74	66.02	12.46		150.0	
10160-CAC	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	2.56	68.64	16.25	0.00	150.0	± 9.6 %
		Y	2.63	69.06	16.53		150.0	
		Z	2.55	68.63	16.25		150.0	
10161-CAC	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	2.75	67.48	15.71	0.00	150.0	± 9.6 %
		Y	2.79	67.73	15.91		150.0	
		Z	2.74	67.48	15.70		150.0	
10162-CAC	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	2.86	67.74	15.86	0.00	150.0	± 9.6 %
		Y	2.90	67.97	16.06		150.0	
		Z	2.85	67.74	15.86		150.0	
10166-CAD	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	3.15	68.95	18.91	3.01	150.0	± 9.6 %
		Y	3.17	69.13	19.12		150.0	
		Z	3.08	68.65	18.81		150.0	
10167-CAD	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	3.77	72.21	19.51	3.01	150.0	± 9.6 %
		Y	3.79	72.51	19.79		150.0	
		Z	3.62	71.66	19.32		150.0	



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10168-CAD	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	4.40	75.66	21.46	3.01	150.0	± 9.6 %
		Y	4.36	75.65	21.58		150.0	
		Z	4.22	75.12	21.31		150.0	
10169-CAC	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	2.61	67.74	18.35	3.01	150.0	± 9.6 %
		Y	2.59	67.78	18.53		150.0	
		Z	2.55	67.29	18.17		150.0	
10170-CAC	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	3.58	74.69	21.32	3.01	150.0	± 9.6 %
		Y	3.46	74.45	21.40		150.0	
		Z	3.38	73.77	21.02		150.0	
10171-AAC	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	2.81	69.59	17.94	3.01	150.0	± 9.6 %
		Y	2.78	69.86	18.27		150.0	
		Z	2.67	68.85	17.66		150.0	
10172-CAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	3.79	76.98	22.56	6.02	65.0	± 9.6 %
		Y	3.93	78.65	23.67		65.0	
		Z	2.71	71.26	20.45		65.0	
10173-CAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	6.07	83.26	22.96	6.02	65.0	± 9.6 %
		Y	6.67	86.09	24.37		65.0	
		Z	4.93	80.81	22.46		65.0	
10174-CAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	3.48	74.02	19.09	6.02	65.0	± 9.6 %
		Y	5.11	80.99	22.02		65.0	
		Z	2.54	69.95	17.79		65.0	
10175-CAD	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	2.58	67.41	18.08	3.01	150.0	± 9.6 %
		Y	2.56	67.49	18.28		150.0	
		Z	2.52	66.97	17.90		150.0	
10176-CAD	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	3.58	74.71	21.34	3.01	150.0	± 9.6 %
		Y	3.47	74.48	21.41		150.0	
		Z	3.38	73.80	21.04		150.0	
10177-CAF	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	2.60	67.55	18.17	3.01	150.0	± 9.6 %
		Y	2.58	67.61	18.36		150.0	
		Z	2.53	67.10	17.98		150.0	
10178-CAD	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	3.55	74.51	21.23	3.01	150.0	± 9.6 %
		Y	3.44	74.31	21.32		150.0	
		Z	3.35	73.60	20.93		150.0	
10179-CAD	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	3.14	71.91	19.46	3.01	150.0	± 9.6 %
		Y	3.09	72.04	19.71		150.0	
		Z	2.97	71.07	19.16		150.0	
10180-CAD	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	2.81	69.54	17.90	3.01	150.0	± 9.6 %
		Y	2.78	69.82	18.24		150.0	
		Z	2.67	68.81	17.63		150.0	
10181-CAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	2.59	67.53	18.16	3.01	150.0	± 9.6 %
		Y	2.57	67.60	18.35		150.0	
		Z	2.53	67.08	17.98		150.0	
10182-CAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	3.55	74.48	21.21	3.01	150.0	± 9.6 %
		Y	3.44	74.29	21.31		150.0	
		Z	3.35	73.57	20.91		150.0	
10183-AAB	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	2.80	69.52	17.89	3.01	150.0	± 9.6 %
		Y	2.78	69.80	18.23		150.0	
		Z	2.67	68.78	17.61		150.0	



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10184-CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	2.60	67.57	18.18	3.01	150.0	± 9.6 %
		Y	2.58	67.63	18.37		150.0	
		Z	2.54	67.12	18.00		150.0	
10185-CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	3.57	74.57	21.26	3.01	150.0	± 9.6 %
		Y	3.45	74.37	21.35		150.0	
		Z	3.36	73.66	20.96		150.0	
10186-AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	2.81	69.58	17.93	3.01	150.0	± 9.6 %
		Y	2.79	69.86	18.26		150.0	
		Z	2.68	68.85	17.65		150.0	
10187-CAD	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	2.61	67.66	18.27	3.01	150.0	± 9.6 %
		Y	2.59	67.72	18.46		150.0	
		Z	2.55	67.21	18.09		150.0	
10188-CAD	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	3.70	75.36	21.71	3.01	150.0	± 9.6 %
		Y	3.56	75.05	21.74		150.0	
		Z	3.49	74.43	21.41		150.0	
10189-AAD	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	2.88	70.03	18.23	3.01	150.0	± 9.6 %
		Y	2.85	70.29	18.55		150.0	
		Z	2.74	69.27	17.94		150.0	
10193-CAB	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.34	66.89	16.12	0.00	150.0	± 9.6 %
		Y	4.37	66.96	16.21		150.0	
		Z	4.34	66.91	16.13		150.0	
10194-CAB	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.47	67.10	16.25	0.00	150.0	± 9.6 %
		Y	4.50	67.17	16.34		150.0	
		Z	4.46	67.10	16.26		150.0	
10195-CAB	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.50	67.10	16.26	0.00	150.0	± 9.6 %
		Y	4.53	67.18	16.35		150.0	
		Z	4.49	67.10	16.27		150.0	
10196-CAB	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.32	66.87	16.10	0.00	150.0	± 9.6 %
		Y	4.35	66.94	16.19		150.0	
		Z	4.31	66.88	16.11		150.0	
10197-CAB	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	X	4.48	67.09	16.25	0.00	150.0	± 9.6 %
		Y	4.51	67.17	16.34		150.0	
		Z	4.47	67.10	16.27		150.0	
10198-CAB	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	X	4.50	67.09	16.26	0.00	150.0	± 9.6 %
		Y	4.52	67.17	16.35		150.0	
		Z	4.48	67.10	16.27		150.0	
10219-CAB	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.28	66.92	16.08	0.00	150.0	± 9.6 %
		Y	4.31	66.99	16.17		150.0	
		Z	4.27	66.93	16.09		150.0	
10220-CAB	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	X	4.47	67.06	16.24	0.00	150.0	± 9.6 %
		Y	4.50	67.13	16.33		150.0	
		Z	4.46	67.06	16.25		150.0	
10221-CAB	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	X	4.51	67.05	16.25	0.00	150.0	± 9.6 %
		Y	4.54	67.12	16.34		150.0	
		Z	4.50	67.05	16.26		150.0	
10222-CAB	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	4.90	67.09	16.38	0.00	150.0	± 9.6 %
		Y	4.92	67.16	16.47		150.0	
		Z	4.89	67.09	16.41		150.0	



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10223-CAB	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	X	5.14	67.23	16.46	0.00	150.0	± 9.6 %
		Y	5.17	67.30	16.55		150.0	
		Z	5.13	67.21	16.47		150.0	
10224-CAB	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	X	4.93	67.22	16.38	0.00	150.0	± 9.6 %
		Y	4.96	67.28	16.46		150.0	
		Z	4.93	67.22	16.40		150.0	
10225-CAB	UMTS-FDD (HSPA+)	X	2.62	66.31	14.82	0.00	150.0	± 9.6 %
		Y	2.66	66.52	15.02		150.0	
		Z	2.61	66.30	14.77		150.0	
10226-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	6.48	84.45	23.47	6.02	65.0	± 9.6 %
		Y	7.14	87.35	24.90		65.0	
		Z	5.23	81.91	22.96		65.0	
10227-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	6.16	82.63	22.19	6.02	65.0	± 9.6 %
		Y	6.82	85.45	23.56		65.0	
		Z	5.09	80.65	21.86		65.0	
10228-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	4.45	80.06	23.79	6.02	65.0	± 9.6 %
		Y	4.60	81.69	24.86		65.0	
		Z	3.70	77.27	23.00		65.0	
10229-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	6.12	83.36	23.00	6.02	65.0	± 9.6 %
		Y	6.72	86.19	24.41		65.0	
		Z	4.96	80.92	22.50		65.0	
10230-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	5.79	81.58	21.75	6.02	65.0	± 9.6 %
		Y	6.38	84.30	23.09		65.0	
		Z	4.80	79.65	21.42		65.0	
10231-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	4.29	79.30	23.42	6.02	65.0	± 9.6 %
		Y	4.43	80.94	24.49		65.0	
		Z	3.58	76.59	22.64		65.0	
10232-CAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	6.11	83.34	23.00	6.02	65.0	± 9.6 %
		Y	6.71	86.18	24.41		65.0	
		Z	4.95	80.90	22.50		65.0	
10233-CAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	5.77	81.55	21.74	6.02	65.0	± 9.6 %
		Y	6.36	84.27	23.09		65.0	
		Z	4.79	79.62	21.41		65.0	
10234-CAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	4.16	78.66	23.05	6.02	65.0	± 9.6 %
		Y	4.31	80.31	24.14		65.0	
		Z	3.49	76.04	22.30		65.0	
10235-CAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	6.11	83.36	23.00	6.02	65.0	± 9.6 %
		Y	6.72	86.20	24.42		65.0	
		Z	4.95	80.91	22.50		65.0	
10236-CAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	5.82	81.66	21.77	6.02	65.0	± 9.6 %
		Y	6.43	84.41	23.13		65.0	
		Z	4.83	79.73	21.44		65.0	
10237-CAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	4.28	79.31	23.42	6.02	65.0	± 9.6 %
		Y	4.43	80.96	24.51		65.0	
		Z	3.57	76.59	22.65		65.0	
10238-CAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	6.09	83.32	22.99	6.02	65.0	± 9.6 %
		Y	6.69	86.15	24.40		65.0	
		Z	4.94	80.87	22.48		65.0	



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10239-CAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	5.75	81.51	21.73	6.02	65.0	± 9.6 %
		Y	6.34	84.22	23.07		65.0	
		Z	4.77	79.58	21.39		65.0	
10240-CAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	4.28	79.29	23.41	6.02	65.0	± 9.6 %
		Y	4.42	80.94	24.50		65.0	
		Z	3.57	76.57	22.64		65.0	
10241-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	6.77	79.45	24.10	6.98	65.0	± 9.6 %
		Y	6.85	80.27	24.72		65.0	
		Z	6.13	77.95	23.67		65.0	
10242-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	6.14	77.59	23.28	6.98	65.0	± 9.6 %
		Y	6.25	78.54	23.96		65.0	
		Z	4.91	73.61	21.77		65.0	
10243-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	5.06	74.01	22.62	6.98	65.0	± 9.6 %
		Y	5.14	74.80	23.27		65.0	
		Z	4.26	70.67	21.23		65.0	
10244-CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	3.23	66.79	12.34	3.98	65.0	± 9.6 %
		Y	3.28	67.33	12.79		65.0	
		Z	2.96	66.23	12.11		65.0	
10245-CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	3.19	66.42	12.11	3.98	65.0	± 9.6 %
		Y	3.22	66.91	12.53		65.0	
		Z	2.93	65.87	11.87		65.0	
10246-CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	2.96	68.62	13.78	3.98	65.0	± 9.6 %
		Y	3.06	69.45	14.37		65.0	
		Z	2.72	68.15	13.68		65.0	
10247-CAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	3.59	68.52	14.48	3.98	65.0	± 9.6 %
		Y	3.63	68.99	14.89		65.0	
		Z	3.34	68.01	14.32		65.0	
10248-CAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	3.58	68.09	14.27	3.98	65.0	± 9.6 %
		Y	3.61	68.50	14.66		65.0	
		Z	3.33	67.54	14.09		65.0	
10249-CAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	4.18	73.60	17.26	3.98	65.0	± 9.6 %
		Y	4.38	74.81	17.99		65.0	
		Z	3.80	72.97	17.18		65.0	
10250-CAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	4.93	73.22	18.87	3.98	65.0	± 9.6 %
		Y	4.93	73.57	19.23		65.0	
		Z	4.57	72.45	18.70		65.0	
10251-CAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	4.63	71.06	17.52	3.98	65.0	± 9.6 %
		Y	4.65	71.45	17.89		65.0	
		Z	4.30	70.32	17.31		65.0	
10252-CAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	5.25	76.57	19.99	3.98	65.0	± 9.6 %
		Y	5.40	77.56	20.62		65.0	
		Z	4.75	75.64	19.84		65.0	
10253-CAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	4.96	71.14	18.18	3.98	65.0	± 9.6 %
		Y	4.96	71.44	18.50		65.0	
		Z	4.63	70.37	17.96		65.0	
10254-CAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	5.31	72.19	18.96	3.98	65.0	± 9.6 %
		Y	5.29	72.43	19.26		65.0	
		Z	4.96	71.40	18.75		65.0	



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10255-CAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	5.33	74.86	19.75	3.98	65.0	± 9.6 %
		Y	5.39	75.47	20.21		65.0	
		Z	4.90	73.99	19.59		65.0	
10256-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	2.38	63.32	9.37	3.98	65.0	± 9.6 %
		Y	2.38	63.59	9.67		65.0	
		Z	2.18	62.86	9.11		65.0	
10257-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	2.36	63.00	9.11	3.98	65.0	± 9.6 %
		Y	2.36	63.24	9.38		65.0	
		Z	2.17	62.55	8.84		65.0	
10258-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	2.16	64.45	10.62	3.98	65.0	± 9.6 %
		Y	2.18	64.85	11.00		65.0	
		Z	1.99	64.02	10.45		65.0	
10259-CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	4.09	70.30	16.08	3.98	65.0	± 9.6 %
		Y	4.13	70.78	16.51		65.0	
		Z	3.80	69.71	15.93		65.0	
10260-CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	4.13	70.10	15.99	3.98	65.0	± 9.6 %
		Y	4.16	70.56	16.39		65.0	
		Z	3.84	69.52	15.83		65.0	
10261-CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	4.48	74.35	18.15	3.98	65.0	± 9.6 %
		Y	4.65	75.44	18.83		65.0	
		Z	4.08	73.63	18.05		65.0	
10262-CAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	4.91	73.13	18.81	3.98	65.0	± 9.6 %
		Y	4.91	73.49	19.17		65.0	
		Z	4.55	72.36	18.64		65.0	
10263-CAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	4.63	71.04	17.51	3.98	65.0	± 9.6 %
		Y	4.64	71.43	17.88		65.0	
		Z	4.30	70.31	17.31		65.0	
10264-CAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	5.19	76.37	19.88	3.98	65.0	± 9.6 %
		Y	5.35	77.36	20.52		65.0	
		Z	4.70	75.44	19.74		65.0	
10265-CAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	5.02	71.45	18.45	3.98	65.0	± 9.6 %
		Y	5.02	71.77	18.78		65.0	
		Z	4.68	70.65	18.23		65.0	
10266-CAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	5.43	72.69	19.37	3.98	65.0	± 9.6 %
		Y	5.41	72.93	19.66		65.0	
		Z	5.06	71.87	19.16		65.0	
10267-CAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	5.52	75.30	19.82	3.98	65.0	± 9.6 %
		Y	5.60	75.96	20.29		65.0	
		Z	5.07	74.46	19.68		65.0	
10268-CAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	5.75	71.95	19.26	3.98	65.0	± 9.6 %
		Y	5.72	72.12	19.51		65.0	
		Z	5.40	71.15	19.04		65.0	
10269-CAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	5.78	71.69	19.18	3.98	65.0	± 9.6 %
		Y	5.74	71.84	19.41		65.0	
		Z	5.43	70.91	18.96		65.0	
10270-CAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	5.71	73.67	19.40	3.98	65.0	± 9.6 %
		Y	5.72	74.02	19.72		65.0	
		Z	5.33	72.93	19.27		65.0	



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10274-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	X	2.47	66.92	14.90	0.00	150.0	± 9.6 %
		Y	2.52	67.22	15.16		150.0	
		Z	2.46	66.92	14.87		150.0	
10275-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	X	1.51	67.86	15.29	0.00	150.0	± 9.6 %
		Y	1.59	68.65	15.81		150.0	
		Z	1.51	67.83	15.27		150.0	
10277-CAA	PHS (QPSK)	X	1.93	60.30	5.80	9.03	50.0	± 9.6 %
		Y	1.90	60.39	5.82		50.0	
		Z	1.85	60.15	5.70		50.0	
10278-CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	2.95	64.62	10.30	9.03	50.0	± 9.6 %
		Y	2.95	64.90	10.48		50.0	
		Z	2.89	64.62	10.32		50.0	
10279-CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	3.00	64.77	10.42	9.03	50.0	± 9.6 %
		Y	3.00	65.06	10.62		50.0	
		Z	2.93	64.75	10.45		50.0	
10290-AAB	CDMA2000, RC1, SO55, Full Rate	X	0.97	65.51	10.99	0.00	150.0	± 9.6 %
		Y	1.07	66.68	11.73		150.0	
		Z	0.93	65.15	10.70		150.0	
10291-AAB	CDMA2000, RC3, SO55, Full Rate	X	0.65	64.31	10.33	0.00	150.0	± 9.6 %
		Y	0.71	65.39	11.08		150.0	
		Z	0.64	64.16	10.15		150.0	
10292-AAB	CDMA2000, RC3, SO32, Full Rate	X	0.98	69.87	13.37	0.00	150.0	± 9.6 %
		Y	1.27	73.08	14.92		150.0	
		Z	0.97	69.74	13.20		150.0	
10293-AAB	CDMA2000, RC3, SO3, Full Rate	X	3.47	85.51	19.51	0.00	150.0	± 9.6 %
		Y	8.72	97.43	23.23		150.0	
		Z	3.75	86.24	19.59		150.0	
10295-AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	9.05	80.79	19.88	9.03	50.0	± 9.6 %
		Y	10.39	83.34	20.97		50.0	
		Z	10.43	83.10	20.75		50.0	
10297-AAB	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	2.52	69.33	16.53	0.00	150.0	± 9.6 %
		Y	2.60	69.81	16.85		150.0	
		Z	2.51	69.27	16.53		150.0	
10298-AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	1.13	65.04	11.44	0.00	150.0	± 9.6 %
		Y	1.21	65.84	12.00		150.0	
		Z	1.10	64.74	11.18		150.0	
10299-AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	1.48	63.88	9.66	0.00	150.0	± 9.6 %
		Y	1.56	64.58	10.18		150.0	
		Z	1.37	63.27	9.22		150.0	
10300-AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	1.17	61.20	7.51	0.00	150.0	± 9.6 %
		Y	1.21	61.53	7.83		150.0	
		Z	1.11	60.84	7.18		150.0	
10301-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	4.17	64.58	16.68	4.17	50.0	± 9.6 %
		Y	4.21	64.70	16.82		50.0	
		Z	4.18	64.69	16.72		50.0	
10302-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	4.78	65.73	17.66	4.96	50.0	± 9.6 %
		Y	4.81	65.86	17.81		50.0	
		Z	4.78	65.91	17.76		50.0	



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10303-AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	4.55	65.41	17.46	4.96	50.0	± 9.6 %
		Y	4.58	65.52	17.61		50.0	
		Z	4.56	65.64	17.60		50.0	
10304-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	4.38	65.40	17.04	4.17	50.0	± 9.6 %
		Y	4.41	65.50	17.18		50.0	
		Z	4.35	65.34	16.99		50.0	
10305-AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	4.06	67.11	18.40	6.02	35.0	± 9.6 %
		Y	4.05	67.17	18.58		35.0	
		Z	4.03	67.01	18.26		35.0	
10306-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	4.35	66.21	18.28	6.02	35.0	± 9.6 %
		Y	4.35	66.28	18.44		35.0	
		Z	4.33	66.18	18.21		35.0	
10307-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	4.24	66.25	18.19	6.02	35.0	± 9.6 %
		Y	4.24	66.31	18.35		35.0	
		Z	4.22	66.21	18.11		35.0	
10308-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	4.22	66.45	18.33	6.02	35.0	± 9.6 %
		Y	4.22	66.51	18.50		35.0	
		Z	4.20	66.39	18.25		35.0	
10309-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	4.35	66.23	18.34	6.02	35.0	± 9.6 %
		Y	4.36	66.31	18.52		35.0	
		Z	4.33	66.20	18.27		35.0	
10310-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	X	4.30	66.28	18.28	6.02	35.0	± 9.6 %
		Y	4.31	66.35	18.44		35.0	
		Z	4.29	66.25	18.21		35.0	
10311-AAB	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	2.88	68.59	16.20	0.00	150.0	± 9.6 %
		Y	2.96	69.02	16.48		150.0	
		Z	2.87	68.53	16.21		150.0	
10313-AAA	iDEN 1:3	X	2.75	69.55	14.37	6.99	70.0	± 9.6 %
		Y	2.79	70.41	14.91		70.0	
		Z	2.48	69.40	14.66		70.0	
10314-AAA	iDEN 1:6	X	3.88	75.45	19.52	10.00	30.0	± 9.6 %
		Y	4.05	76.79	20.24		30.0	
		Z	4.02	76.95	20.46		30.0	
10315-AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	X	1.08	63.66	14.90	0.17	150.0	± 9.6 %
		Y	1.10	63.98	15.23		150.0	
		Z	1.08	63.57	14.89		150.0	
10316-AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	X	4.34	66.68	16.09	0.17	150.0	± 9.6 %
		Y	4.37	66.78	16.20		150.0	
		Z	4.33	66.69	16.11		150.0	
10317-AAB	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.34	66.68	16.09	0.17	150.0	± 9.6 %
		Y	4.37	66.78	16.20		150.0	
		Z	4.33	66.69	16.11		150.0	
10400-AAC	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	X	4.42	67.04	16.19	0.00	150.0	± 9.6 %
		Y	4.45	67.14	16.30		150.0	
		Z	4.40	67.03	16.20		150.0	
10401-AAC	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	X	5.09	66.82	16.20	0.00	150.0	± 9.6 %
		Y	5.11	66.90	16.30		150.0	
		Z	5.07	66.79	16.21		150.0	



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10402-AAC	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	X	5.45	67.43	16.42	0.00	150.0	± 9.6 %
		Y	5.48	67.49	16.50		150.0	
		Z	5.45	67.42	16.44		150.0	
10403-AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	0.97	65.51	10.99	0.00	115.0	± 9.6 %
		Y	1.07	66.68	11.73		115.0	
		Z	0.93	65.15	10.70		115.0	
10404-AAB	CDMA2000 (1xEV-DO, Rev. A)	X	0.97	65.51	10.99	0.00	115.0	± 9.6 %
		Y	1.07	66.68	11.73		115.0	
		Z	0.93	65.15	10.70		115.0	
10406-AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	X	100.00	114.78	26.32	0.00	100.0	± 9.6 %
		Y	100.00	116.57	27.06		100.0	
		Z	100.00	115.47	26.53		100.0	
10410-AAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.10	80.03	17.90	3.23	80.0	± 9.6 %
		Y	6.73	87.51	20.67		80.0	
		Z	3.49	79.61	18.20		80.0	
10415-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	1.03	63.15	14.59	0.00	150.0	± 9.6 %
		Y	1.05	63.48	14.92		150.0	
		Z	1.03	63.15	14.60		150.0	
10416-AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	X	4.33	66.85	16.18	0.00	150.0	± 9.6 %
		Y	4.36	66.92	16.27		150.0	
		Z	4.32	66.85	16.19		150.0	
10417-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	X	4.33	66.85	16.18	0.00	150.0	± 9.6 %
		Y	4.36	66.92	16.27		150.0	
		Z	4.32	66.85	16.19		150.0	
10418-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preamble)	X	4.33	67.06	16.24	0.00	150.0	± 9.6 %
		Y	4.35	67.14	16.34		150.0	
		Z	4.32	67.07	16.26		150.0	
10419-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preamble)	X	4.34	66.99	16.22	0.00	150.0	± 9.6 %
		Y	4.37	67.06	16.32		150.0	
		Z	4.33	67.00	16.24		150.0	
10422-AAA	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.44	66.96	16.23	0.00	150.0	± 9.6 %
		Y	4.47	67.03	16.33		150.0	
		Z	4.44	66.97	16.25		150.0	
10423-AAA	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	4.56	67.20	16.31	0.00	150.0	± 9.6 %
		Y	4.59	67.28	16.41		150.0	
		Z	4.55	67.20	16.33		150.0	
10424-AAA	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	4.49	67.15	16.29	0.00	150.0	± 9.6 %
		Y	4.52	67.23	16.39		150.0	
		Z	4.48	67.15	16.30		150.0	
10425-AAA	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.12	67.29	16.47	0.00	150.0	± 9.6 %
		Y	5.15	67.38	16.57		150.0	
		Z	5.11	67.27	16.48		150.0	
10426-AAA	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	X	5.14	67.37	16.51	0.00	150.0	± 9.6 %
		Y	5.17	67.45	16.59		150.0	
		Z	5.13	67.38	16.53		150.0	