

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3994

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)
13	55.5	0.75	18.77	18.77	18.77	0.00	1.00	± 13.3 %
750	41.9	0.89	10.53	10.53	10.53	0.50	0.94	± 12.0 %
835	41.5	0.90	10.05	10.05	10.05	0.35	1.04	± 12.0 %
900	41.5	0.97	9.89	9.89	9.89	0.31	1.05	± 12.0 %
1750	40.1	1.37	8.84	8.84	8.84	0.42	0.85	± 12.0 %
1900	40.0	1.40	8.63	8.63	8.63	0.36	0.80	± 12.0 %
2100	39.8	1.49	8.79	8.79	8.79	0.39	0.80	± 12.0 %
2300	39.5	1.67	8.10	8.10	8.10	0.32	0.85	± 12.0 %
2450	39.2	1.80	7.75	7.75	7.75	0.41	0.85	± 12.0 %
2600	39.0	1.96	7.46	7.46	7.46	0.46	0.80	± 12.0 %
5250	35.9	4.71	5.42	5.42	5.42	0.35	1.80	± 13.1 %
5400	35.8	4.86	5.26	5.26	5.26	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.89	4.89	4.89	0.40	1.80	± 13.1 %
5750	35.4	5.22	4.97	4.97	4.97	0.40	1.80	± 13.1 %
5850	35.1	5.32	4.81	4.81	4.81	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.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3994

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	0.56	0.80	± 12.0 %
835	55.2	0.97	10.34	10.34	10.34	0.48	0.85	± 12.0 %
900	55.0	1.05	10.14	10.14	10.14	0.39	0.97	± 12.0 %
1750	53.4	1.49	8.40	8.40	8.40	0.36	0.90	± 12.0 %
1900	53.3	1.52	8.07	8.07	8.07	0.43	0.80	± 12.0 %
2100	53.2	1.62	8.56	8.56	8.56	0.34	0.85	± 12.0 %
2300	52.9	1.81	7.91	7.91	7.91	0.38	0.85	± 12.0 %
2450	52.7	1.95	7.86	7.86	7.86	0.28	0.90	± 12.0 %
2600	52.5	2.16	7.52	7.52	7.52	0.24	1.08	± 12.0 %
5250	48.9	5.36	4.76	4.76	4.76	0.50	1.90	± 13.1 %
5400	48.7	5.53	4.45	4.45	4.45	0.50	1.90	± 13.1 %
5600	48.5	5.77	4.15	4.15	4.15	0.50	1.90	± 13.1 %
5750	48.3	5.94	4.47	4.47	4.47	0.50	1.90	± 13.1 %
5850	48.1	6.06	4.23	4.23	4.23	0.50	1.90	± 13.1 %

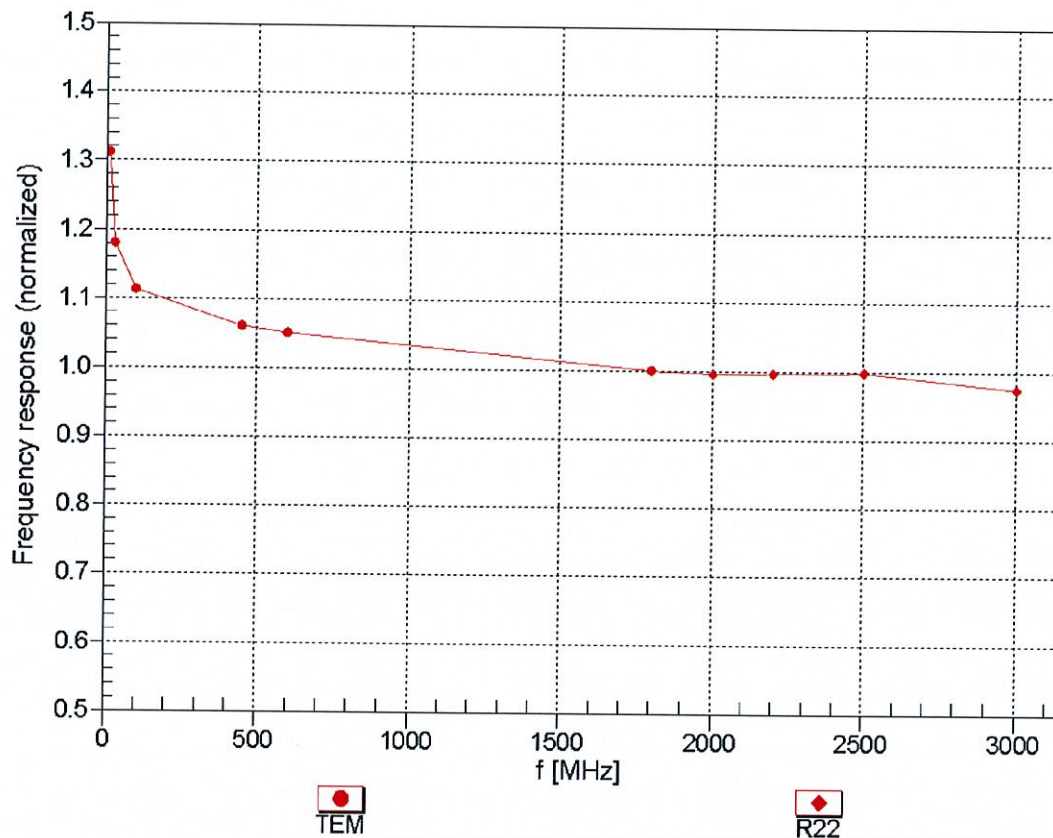
^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 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.

Frequency Response of E-Field

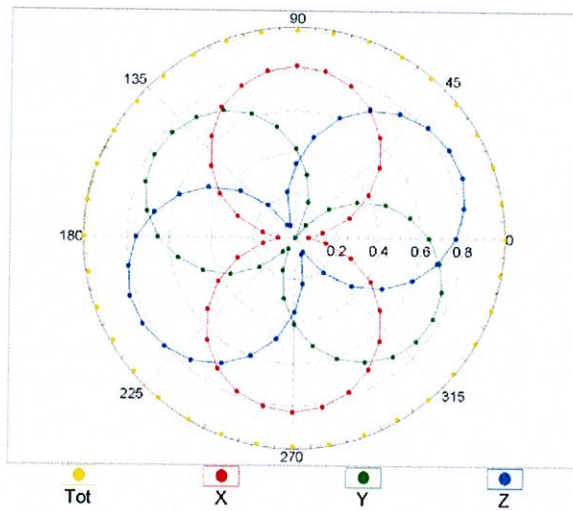
(TEM-Cell:ifi110 EXX, Waveguide: R22)



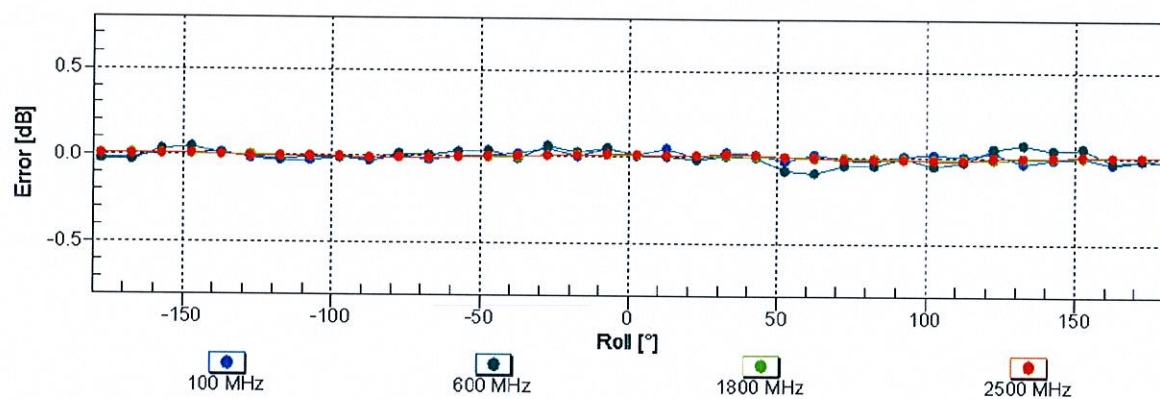
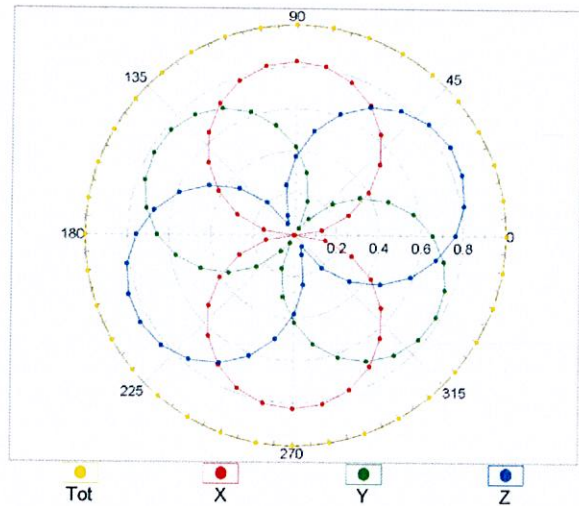
Uncertainty of Frequency Response of E-field: $\pm 6.3\%$ ($k=2$)

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

f=600 MHz,TEM

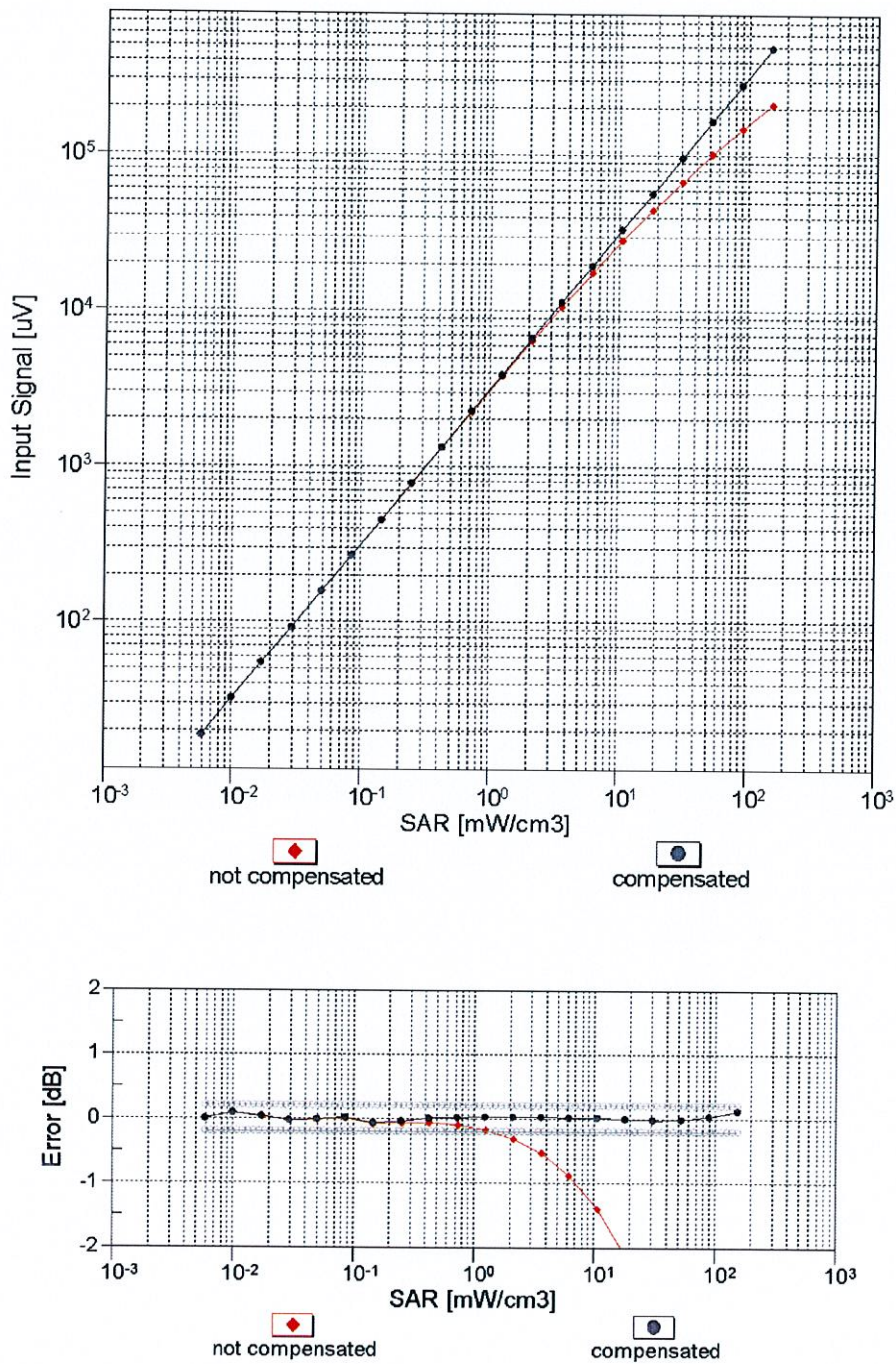


f=1800 MHz,R22



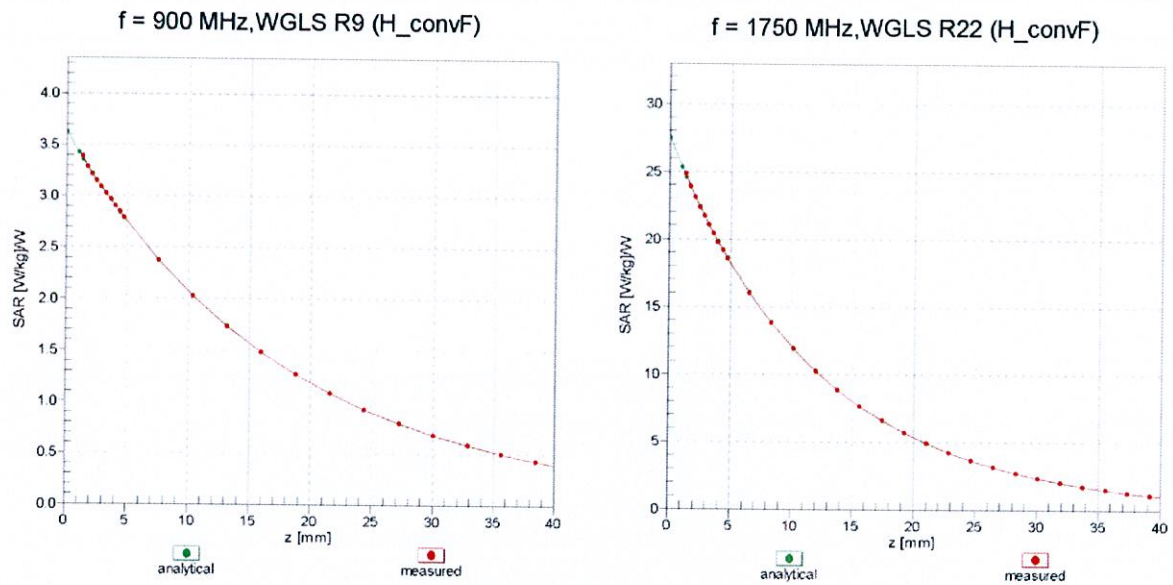
Uncertainty of Axial Isotropy Assessment: $\pm 0.5\%$ ($k=2$)

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



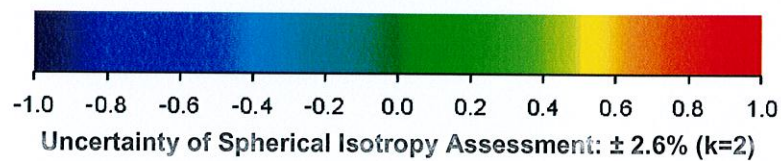
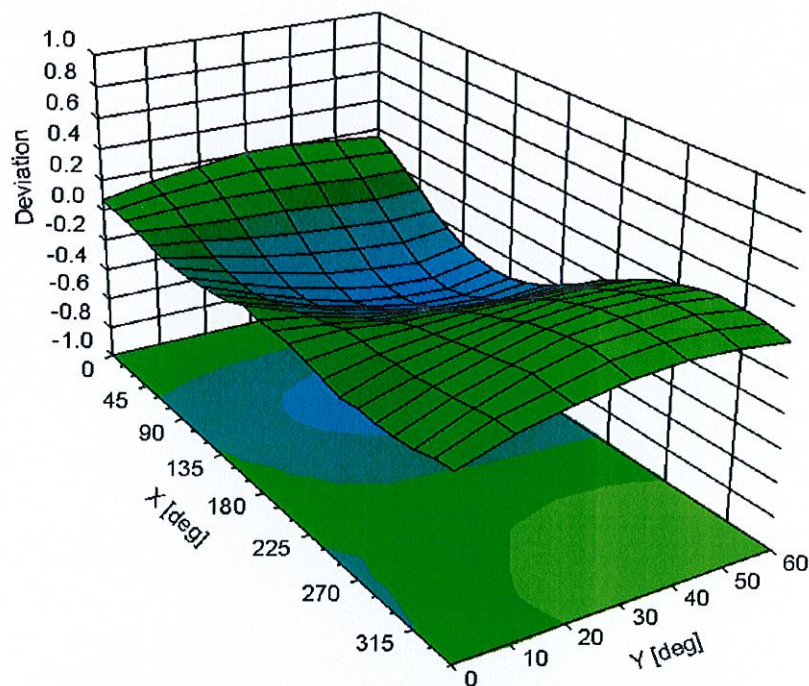
Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Conversion Factor Assessment



Deviation from Isotropy in Liquid

Error (ϕ, θ), $f = 900 \text{ MHz}$



Uncertainty of Spherical Isotropy Assessment: $\pm 2.6\%$ ($k=2$)

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Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-27.5
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

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	139.2	$\pm 3.3 \%$
		Y	0.00	0.00	1.00		130.0	
		Z	0.00	0.00	1.00		148.6	
10010-CAA	SAR Validation (Square, 100ms, 10ms)	X	11.00	83.33	18.21	10.00	20.0	$\pm 9.6 \%$
		Y	3.44	69.39	12.68		20.0	
		Z	6.85	78.01	16.38		20.0	
10011-CAB	UMTS-FDD (WCDMA)	X	1.32	72.54	18.22	0.00	150.0	$\pm 9.6 \%$
		Y	0.89	66.63	14.33		150.0	
		Z	1.37	73.61	18.67		150.0	
10012-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	1.28	66.05	16.89	0.41	150.0	$\pm 9.6 \%$
		Y	1.11	64.03	15.17		150.0	
		Z	1.26	66.05	17.03		150.0	
10013-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	X	4.98	67.13	17.50	1.46	150.0	$\pm 9.6 \%$
		Y	4.81	66.82	17.18		150.0	
		Z	4.96	67.10	17.60		150.0	
10021-DAC	GSM-FDD (TDMA, GMSK)	X	100.00	118.02	30.07	9.39	50.0	$\pm 9.6 \%$
		Y	100.00	116.58	29.21		50.0	
		Z	100.00	118.72	30.32		50.0	
10023-DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	100.00	117.84	30.03	9.57	50.0	$\pm 9.6 \%$
		Y	100.00	116.35	29.14		50.0	
		Z	100.00	118.50	30.26		50.0	
10024-DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	100.00	116.15	28.25	6.56	60.0	$\pm 9.6 \%$
		Y	100.00	113.41	26.66		60.0	
		Z	100.00	116.65	28.35		60.0	
10025-DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	15.21	108.69	43.18	12.57	50.0	$\pm 9.6 \%$
		Y	4.61	70.80	25.88		50.0	
		Z	8.27	89.76	35.85		50.0	
10026-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	31.46	121.16	42.36	9.56	60.0	$\pm 9.6 \%$
		Y	12.43	97.50	34.26		60.0	
		Z	22.28	113.30	40.21		60.0	
10027-DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	116.58	27.70	4.80	80.0	$\pm 9.6 \%$
		Y	100.00	112.09	25.26		80.0	
		Z	100.00	116.91	27.68		80.0	
10028-DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	118.50	27.84	3.55	100.0	$\pm 9.6 \%$
		Y	100.00	111.32	24.19		100.0	
		Z	100.00	118.59	27.68		100.0	
10029-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	13.70	99.99	34.32	7.80	80.0	$\pm 9.6 \%$
		Y	7.83	86.98	29.28		80.0	
		Z	11.20	95.95	33.17		80.0	
10030-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	100.00	114.98	27.27	5.30	70.0	$\pm 9.6 \%$
		Y	100.00	111.06	25.10		70.0	
		Z	100.00	115.18	27.21		70.0	
10031-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	121.85	27.78	1.88	100.0	$\pm 9.6 \%$
		Y	100.00	103.43	19.45		100.0	
		Z	100.00	119.67	26.59		100.0	

10032-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	X	100.00	133.24	31.29	1.17	100.0	± 9.6 %
		Y	100.00	95.80	15.47		100.0	
		Z	100.00	128.59	29.02		100.0	
10033-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	100.00	127.74	34.70	5.30	70.0	± 9.6 %
		Y	45.86	112.28	29.74		70.0	
		Z	100.00	128.00	34.71		70.0	
10034-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	X	100.00	127.26	32.76	1.88	100.0	± 9.6 %
		Y	6.06	84.48	19.80		100.0	
		Z	100.00	126.65	32.33		100.0	
10035-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	19.23	104.60	27.05	1.17	100.0	± 9.6 %
		Y	2.74	75.62	16.37		100.0	
		Z	25.92	108.30	27.67		100.0	
10036-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	100.00	128.09	34.87	5.30	70.0	± 9.6 %
		Y	100.00	124.32	32.70		70.0	
		Z	100.00	128.36	34.88		70.0	
10037-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	100.00	127.23	32.70	1.88	100.0	± 9.6 %
		Y	5.25	82.72	19.20		100.0	
		Z	100.00	126.63	32.28		100.0	
10038-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	21.42	106.69	27.74	1.17	100.0	± 9.6 %
		Y	2.86	76.43	16.79		100.0	
		Z	30.56	111.24	28.57		100.0	
10039-CAB	CDMA2000 (1xRTT, RC1)	X	3.89	83.33	20.47	0.00	150.0	± 9.6 %
		Y	1.32	68.38	12.94		150.0	
		Z	4.57	85.29	20.71		150.0	
10042-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	X	100.00	113.68	27.28	7.78	50.0	± 9.6 %
		Y	100.00	111.08	25.81		50.0	
		Z	100.00	113.91	27.28		50.0	
10044-CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.00	116.61	3.10	0.00	150.0	± 9.6 %
		Y	0.18	127.27	1.01		150.0	
		Z	0.02	124.20	0.70		150.0	
10048-CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	X	100.00	119.79	32.19	13.80	25.0	± 9.6 %
		Y	50.20	106.94	28.47		25.0	
		Z	100.00	120.11	32.35		25.0	
10049-CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	100.00	117.81	30.30	10.79	40.0	± 9.6 %
		Y	100.00	116.39	29.51		40.0	
		Z	100.00	118.41	30.52		40.0	
10056-CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	100.00	124.98	34.65	9.03	50.0	± 9.6 %
		Y	25.21	100.39	27.38		50.0	
		Z	100.00	125.30	34.73		50.0	
10058-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	8.72	89.85	29.92	6.55	100.0	± 9.6 %
		Y	5.84	81.22	26.29		100.0	
		Z	7.57	87.29	29.20		100.0	
10059-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	X	1.44	68.48	18.13	0.61	110.0	± 9.6 %
		Y	1.20	65.72	16.07		110.0	
		Z	1.40	68.47	18.28		110.0	
10060-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	100.00	138.99	36.60	1.30	110.0	± 9.6 %
		Y	100.00	131.67	32.91		110.0	
		Z	100.00	140.11	36.94		110.0	

10061-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	63.14	133.02	37.65	2.04	110.0	± 9.6 %
		Y	7.44	94.97	26.68		110.0	
		Z	64.56	134.83	38.32		110.0	
10062-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.76	67.04	16.87	0.49	100.0	± 9.6 %
		Y	4.57	66.65	16.50		100.0	
		Z	4.73	67.00	16.96		100.0	
10063-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.79	67.17	16.99	0.72	100.0	± 9.6 %
		Y	4.59	66.79	16.62		100.0	
		Z	4.76	67.13	17.09		100.0	
10064-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	5.09	67.44	17.22	0.86	100.0	± 9.6 %
		Y	4.87	67.05	16.86		100.0	
		Z	5.06	67.40	17.32		100.0	
10065-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	4.97	67.42	17.38	1.21	100.0	± 9.6 %
		Y	4.76	67.01	17.00		100.0	
		Z	4.94	67.37	17.47		100.0	
10066-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	5.00	67.49	17.57	1.46	100.0	± 9.6 %
		Y	4.79	67.07	17.19		100.0	
		Z	4.97	67.44	17.67		100.0	
10067-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	5.30	67.63	18.01	2.04	100.0	± 9.6 %
		Y	5.10	67.34	17.69		100.0	
		Z	5.27	67.61	18.12		100.0	
10068-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	5.38	67.81	18.30	2.55	100.0	± 9.6 %
		Y	5.17	67.41	17.93		100.0	
		Z	5.35	67.75	18.40		100.0	
10069-CAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	5.46	67.77	18.48	2.67	100.0	± 9.6 %
		Y	5.25	67.43	18.13		100.0	
		Z	5.43	67.73	18.58		100.0	
10071-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	5.10	67.28	17.85	1.99	100.0	± 9.6 %
		Y	4.93	66.98	17.52		100.0	
		Z	5.08	67.24	17.95		100.0	
10072-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	5.12	67.75	18.14	2.30	100.0	± 9.6 %
		Y	4.93	67.37	17.78		100.0	
		Z	5.09	67.69	18.24		100.0	
10073-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	5.21	68.00	18.53	2.83	100.0	± 9.6 %
		Y	5.02	67.65	18.17		100.0	
		Z	5.18	67.95	18.62		100.0	
10074-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	5.21	67.96	18.73	3.30	100.0	± 9.6 %
		Y	5.04	67.63	18.36		100.0	
		Z	5.18	67.90	18.81		100.0	
10075-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	5.29	68.24	19.13	3.82	90.0	± 9.6 %
		Y	5.10	67.82	18.72		90.0	
		Z	5.25	68.14	19.20		90.0	
10076-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	5.29	68.00	19.24	4.15	90.0	± 9.6 %
		Y	5.13	67.67	18.87		90.0	
		Z	5.26	67.91	19.31		90.0	
10077-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	5.32	68.07	19.33	4.30	90.0	± 9.6 %
		Y	5.17	67.75	18.97		90.0	
		Z	5.29	67.99	19.41		90.0	

10081-CAB	CDMA2000 (1xRTT, RC3)	X	1.33	73.02	16.29	0.00	150.0	± 9.6 %
		Y	0.59	63.13	9.69		150.0	
		Z	1.32	73.09	15.86		150.0	
10082-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	X	1.14	60.54	5.82	4.77	80.0	± 9.6 %
		Y	0.94	60.00	5.05		80.0	
		Z	1.00	60.00	5.35		80.0	
10090-DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	100.00	116.21	28.30	6.56	60.0	± 9.6 %
		Y	100.00	113.52	26.73		60.0	
		Z	100.00	116.73	28.41		60.0	
10097-CAB	UMTS-FDD (HSDPA)	X	2.03	69.97	17.15	0.00	150.0	± 9.6 %
		Y	1.70	67.38	15.16		150.0	
		Z	2.05	70.32	17.32		150.0	
10098-CAB	UMTS-FDD (HSUPA, Subtest 2)	X	1.99	69.98	17.15	0.00	150.0	± 9.6 %
		Y	1.66	67.32	15.12		150.0	
		Z	2.01	70.34	17.33		150.0	
10099-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	31.64	121.25	42.38	9.56	60.0	± 9.6 %
		Y	12.50	97.59	34.29		60.0	
		Z	22.42	113.41	40.24		60.0	
10100-CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	3.48	72.44	17.84	0.00	150.0	± 9.6 %
		Y	2.94	69.80	16.33		150.0	
		Z	3.46	72.38	17.92		150.0	
10101-CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.37	68.43	16.56	0.00	150.0	± 9.6 %
		Y	3.09	67.16	15.68		150.0	
		Z	3.34	68.34	16.63		150.0	
10102-CAD	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	3.46	68.31	16.61	0.00	150.0	± 9.6 %
		Y	3.19	67.17	15.80		150.0	
		Z	3.44	68.23	16.68		150.0	
10103-CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	9.05	81.23	22.75	3.98	65.0	± 9.6 %
		Y	7.21	77.73	21.28		65.0	
		Z	8.49	80.51	22.67		65.0	
10104-CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	8.09	77.79	22.27	3.98	65.0	± 9.6 %
		Y	6.86	75.12	21.00		65.0	
		Z	7.66	77.09	22.15		65.0	
10105-CAD	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	7.43	76.07	21.85	3.98	65.0	± 9.6 %
		Y	6.34	73.50	20.61		65.0	
		Z	7.13	75.57	21.81		65.0	
10108-CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	3.03	71.64	17.70	0.00	150.0	± 9.6 %
		Y	2.55	69.11	16.16		150.0	
		Z	3.02	71.71	17.83		150.0	
10109-CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	3.03	68.40	16.55	0.00	150.0	± 9.6 %
		Y	2.73	67.04	15.54		150.0	
		Z	3.01	68.38	16.64		150.0	
10110-CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	2.48	70.92	17.48	0.00	150.0	± 9.6 %
		Y	2.04	68.22	15.67		150.0	
		Z	2.48	71.16	17.64		150.0	
10111-CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	2.80	69.64	17.09	0.00	150.0	± 9.6 %
		Y	2.45	67.99	15.77		150.0	
		Z	2.79	69.79	17.20		150.0	

10112-CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	3.15	68.30	16.56	0.00	150.0	± 9.6 %
		Y	2.86	67.08	15.63		150.0	
		Z	3.12	68.28	16.64		150.0	
10113-CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	2.95	69.66	17.16	0.00	150.0	± 9.6 %
		Y	2.61	68.19	15.94		150.0	
		Z	2.93	69.81	17.27		150.0	
10114-CAC	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	5.17	67.44	16.67	0.00	150.0	± 9.6 %
		Y	5.00	67.04	16.36		150.0	
		Z	5.17	67.44	16.80		150.0	
10115-CAC	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	5.48	67.60	16.75	0.00	150.0	± 9.6 %
		Y	5.26	67.10	16.40		150.0	
		Z	5.46	67.55	16.86		150.0	
10116-CAC	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.28	67.66	16.70	0.00	150.0	± 9.6 %
		Y	5.08	67.21	16.38		150.0	
		Z	5.27	67.64	16.83		150.0	
10117-CAC	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	5.14	67.33	16.63	0.00	150.0	± 9.6 %
		Y	4.96	66.89	16.30		150.0	
		Z	5.13	67.26	16.73		150.0	
10118-CAC	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	X	5.56	67.80	16.86	0.00	150.0	± 9.6 %
		Y	5.34	67.32	16.52		150.0	
		Z	5.56	67.81	17.00		150.0	
10119-CAC	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	X	5.25	67.59	16.68	0.00	150.0	± 9.6 %
		Y	5.07	67.18	16.37		150.0	
		Z	5.25	67.60	16.82		150.0	
10140-CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	3.50	68.31	16.52	0.00	150.0	± 9.6 %
		Y	3.22	67.17	15.71		150.0	
		Z	3.47	68.23	16.59		150.0	
10141-CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	3.62	68.35	16.66	0.00	150.0	± 9.6 %
		Y	3.35	67.31	15.91		150.0	
		Z	3.59	68.28	16.73		150.0	
10142-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	2.31	71.43	17.43	0.00	150.0	± 9.6 %
		Y	1.79	68.06	15.08		150.0	
		Z	2.31	71.81	17.58		150.0	
10143-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	2.78	71.09	17.17	0.00	150.0	± 9.6 %
		Y	2.27	68.44	15.13		150.0	
		Z	2.77	71.31	17.21		150.0	
10144-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	2.45	68.19	15.30	0.00	150.0	± 9.6 %
		Y	2.01	65.82	13.31		150.0	
		Z	2.40	68.11	15.18		150.0	
10145-CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	1.60	69.15	14.24	0.00	150.0	± 9.6 %
		Y	0.88	62.25	9.13		150.0	
		Z	1.43	67.75	13.19		150.0	
10146-CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	3.19	72.47	14.89	0.00	150.0	± 9.6 %
		Y	1.49	63.66	9.69		150.0	
		Z	2.06	67.04	12.07		150.0	
10147-CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	5.02	78.31	17.29	0.00	150.0	± 9.6 %
		Y	1.66	64.88	10.44		150.0	
		Z	2.56	69.74	13.45		150.0	

10149-CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	3.04	68.47	16.60	0.00	150.0	± 9.6 %
		Y	2.74	67.11	15.59		150.0	
		Z	3.02	68.45	16.69		150.0	
10150-CAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	3.16	68.36	16.60	0.00	150.0	± 9.6 %
		Y	2.87	67.14	15.67		150.0	
		Z	3.13	68.34	16.69		150.0	
10151-CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	10.40	85.24	24.36	3.98	65.0	± 9.6 %
		Y	8.02	81.19	22.67		65.0	
		Z	9.74	84.61	24.32		65.0	
10152-CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	7.79	78.30	22.21	3.98	65.0	± 9.6 %
		Y	6.43	75.25	20.71		65.0	
		Z	7.34	77.59	22.07		65.0	
10153-CAD	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	8.23	79.27	22.97	3.98	65.0	± 9.6 %
		Y	6.90	76.47	21.61		65.0	
		Z	7.78	78.59	22.85		65.0	
10154-CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	2.56	71.47	17.79	0.00	150.0	± 9.6 %
		Y	2.09	68.66	15.94		150.0	
		Z	2.55	71.73	17.97		150.0	
10155-CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.80	69.65	17.11	0.00	150.0	± 9.6 %
		Y	2.46	68.02	15.79		150.0	
		Z	2.79	69.81	17.22		150.0	
10156-CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	2.22	72.16	17.54	0.00	150.0	± 9.6 %
		Y	1.62	67.88	14.62		150.0	
		Z	2.23	72.60	17.66		150.0	
10157-CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	2.36	69.39	15.66	0.00	150.0	± 9.6 %
		Y	1.82	66.08	13.07		150.0	
		Z	2.32	69.32	15.49		150.0	
10158-CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	2.96	69.73	17.21	0.00	150.0	± 9.6 %
		Y	2.62	68.27	16.00		150.0	
		Z	2.94	69.89	17.33		150.0	
10159-CAE	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	2.50	69.97	15.99	0.00	150.0	± 9.6 %
		Y	1.91	66.50	13.35		150.0	
		Z	2.45	69.88	15.81		150.0	
10160-CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	2.94	70.15	17.25	0.00	150.0	± 9.6 %
		Y	2.59	68.43	16.04		150.0	
		Z	2.97	70.46	17.48		150.0	
10161-CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	3.06	68.34	16.57	0.00	150.0	± 9.6 %
		Y	2.76	67.09	15.58		150.0	
		Z	3.03	68.35	16.65		150.0	
10162-CAD	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	3.17	68.43	16.65	0.00	150.0	± 9.6 %
		Y	2.88	67.28	15.71		150.0	
		Z	3.14	68.46	16.74		150.0	
10166-CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	3.85	71.01	20.01	3.01	150.0	± 9.6 %
		Y	3.47	69.73	19.28		150.0	
		Z	3.67	70.32	19.71		150.0	
10167-CAE	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	5.05	74.93	20.82	3.01	150.0	± 9.6 %
		Y	4.24	72.46	19.60		150.0	
		Z	4.62	73.54	20.23		150.0	