Calibration Laboratory of
Schmid & Partner
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S Schweizerischer Kalibrierdienst
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Accreditation No.: SCS 0108

Client **DT&C (Dymstec)** Certificate No: **EX3-3916_Apr17**

CALIBRATION CERTIFICATE

Object EX3DV4 - SN:3916

Calibration procedure(s) QA CAL-01.v9, QA CAL-14.v4, QA CAL-23.v5, QA CAL-25.v6
Calibration procedure for dosimetric E-field probes

Calibration date: April 28, 2017

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-17 (No. 217-02521/02522)	Apr-18
Power sensor NRP-Z91	SN: 103244	04-Apr-17 (No. 217-02521)	Apr-18
Power sensor NRP-Z91	SN: 103245	04-Apr-17 (No. 217-02525)	Apr-18
Reference 20 dB Attenuator	SN: S5277 (20x)	07-Apr-17 (No. 217-02528)	Apr-18
Reference Probe ES3DV2	SN: 3013	31-Dec-16 (No. ES3-3013_Dec16)	Dec-17
DAE4	SN: 660	7-Dec-16 (No. DAE4-660_Dec16)	Dec-17
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-16)	In house check: Jun-18
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-16)	In house check: Jun-18
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-16)	In house check: Oct-17

	Name	Function	Signature
Calibrated by:	Jeton Kastrati	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: May 1, 2017

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Glossary:

TSL	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConvF	sensitivity in TSL / NORMx,y,z
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization φ	φ rotation around probe axis
Polarization ϑ	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., ϑ = 0 is normal to probe axis
Connector Angle	information used in DASY system to align probe sensor X to the robot coordinate system

Calibration is Performed According to the Following Standards:

a) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- *NORMx,y,z:* Assessed for E-field polarization ϑ = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E^2-field uncertainty inside TSL (see below *ConvF*).
- *NORM(f)x,y,z = NORMx,y,z * frequency_response* (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of *ConvF*.
- *DCPx,y,z:* DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- *PAR:* PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- *Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D* are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. *VR* is the maximum calibration range expressed in RMS voltage across the diode.
- *ConvF and Boundary Effect Parameters:* Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to *NORMx,y,z * ConvF* whereby the uncertainty corresponds to that given for *ConvF*. A frequency dependent *ConvF* is used in DASY version 4.4 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- *Spherical isotropy (3D deviation from isotropy)*: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- *Sensor Offset*: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- *Connector Angle*: The angle is assessed using the information gained by determining the *NORMx* (no uncertainty required).

Probe EX3DV4

SN:3916

Manufactured: December 18, 2012
Calibrated: April 28, 2017

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

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3916

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm ($\mu V/(V/m)^2$)[A]	0.56	0.48	0.52	± 10.1 %
DCP (mV)[B]	98.3	99.9	100.5	

Modulation Calibration Parameters

UID	Communication System Name		A dB	B dB√μV	C	D dB	VR mV	Unc[E] (k=2)
0	CW	X	0.0	0.0	1.0	0.00	130.6	±3.3 %
		Y	0.0	0.0	1.0		140.9	
		Z	0.0	0.0	1.0		143.1	

Note: For details on UID parameters see Appendix.

Sensor Model Parameters

	C1 fF	C2 fF	α V^{-1}	T1 $ms.V^{-2}$	T2 $ms.V^{-1}$	T3 ms	T4 V^{-2}	T5 V^{-1}	T6
X	65.19	488.4	36.03	23.45	1.482	5.035	0.472	0.51	1.005
Y	51.04	381.3	35.65	17.54	1.307	4.985	1.12	0.337	1.005
Z	53.66	398.4	35.32	19.38	1.36	5.014	0.957	0.363	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.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3916

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)
2450	39.2	1.80	7.68	7.68	7.68	0.46	0.86	± 12.0 %
2600	39.0	1.96	7.41	7.41	7.41	0.42	0.86	± 12.0 %
5200	36.0	4.66	5.37	5.37	5.37	0.35	1.80	± 13.1 %
5300	35.9	4.76	5.14	5.14	5.14	0.35	1.80	± 13.1 %
5500	35.6	4.96	5.02	5.02	5.02	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.83	4.83	4.83	0.40	1.80	± 13.1 %
5800	35.3	5.27	4.84	4.84	4.84	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:3916

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)
2450	52.7	1.95	7.75	7.75	7.75	0.31	0.90	± 12.0 %
2600	52.5	2.16	7.40	7.40	7.40	0.35	0.88	± 12.0 %
5200	49.0	5.30	4.84	4.84	4.84	0.40	1.90	± 13.1 %
5300	48.9	5.42	4.65	4.65	4.65	0.40	1.90	± 13.1 %
5500	48.6	5.65	4.30	4.30	4.30	0.45	1.90	± 13.1 %
5600	48.5	5.77	4.10	4.10	4.10	0.45	1.90	± 13.1 %
5800	48.2	6.00	4.22	4.22	4.22	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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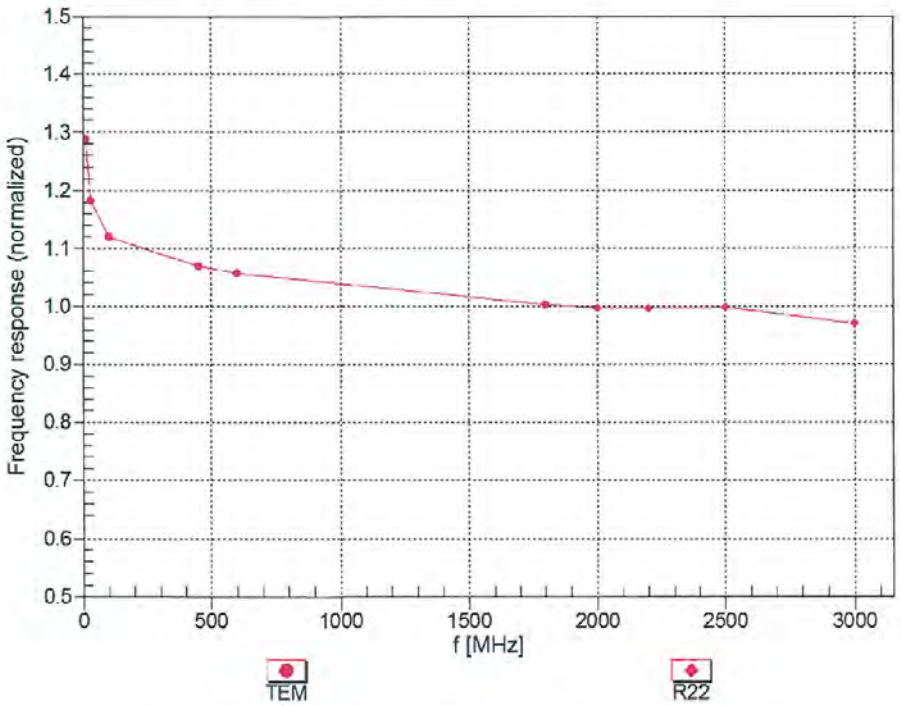
Frequency Response of E-Field
(TEM-Cell:ifi110 EXX, Waveguide: R22)



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

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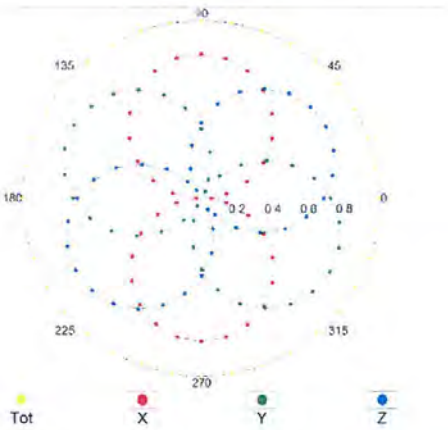
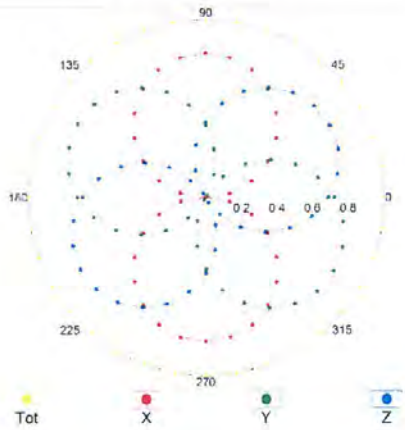
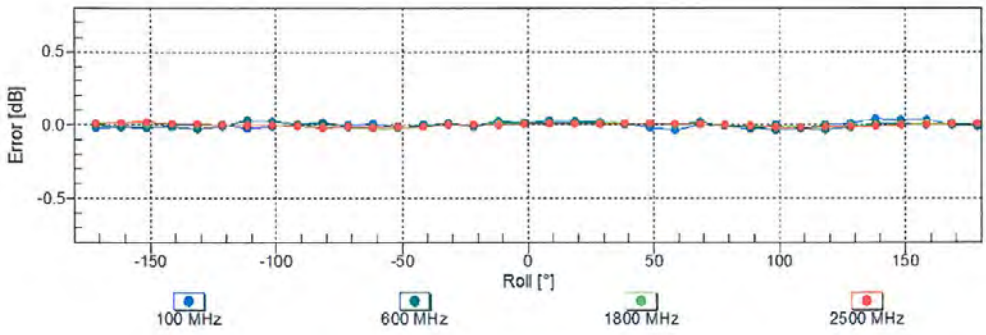
Receiving Pattern (ϕ), ϑ = 0°

f=600 MHz,TEM



f=1800 MHz,R22





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

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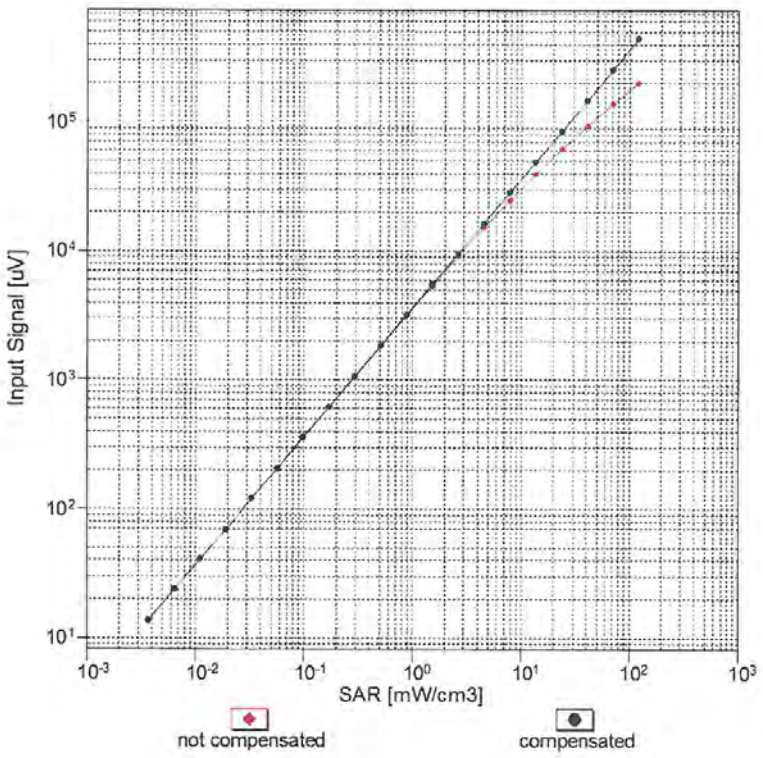
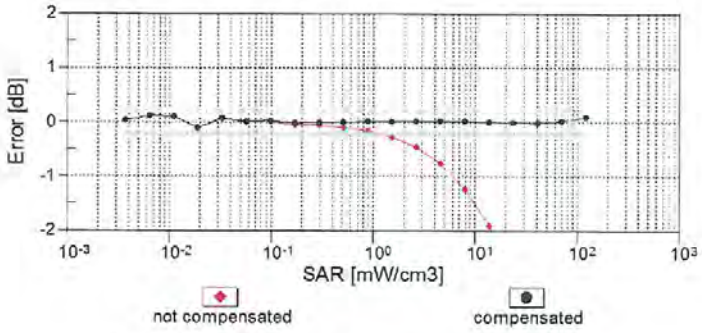
Dynamic Range f(SAR_{head})
(TEM cell , f_{eval}= 1900 MHz)





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

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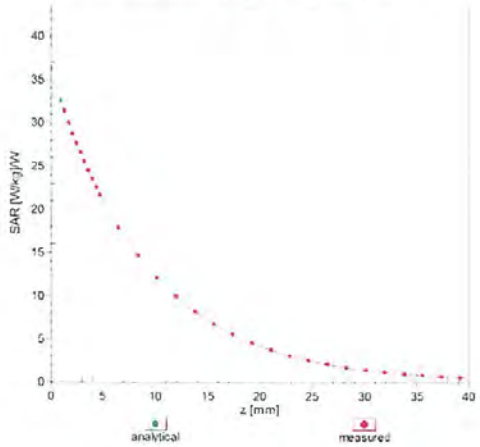
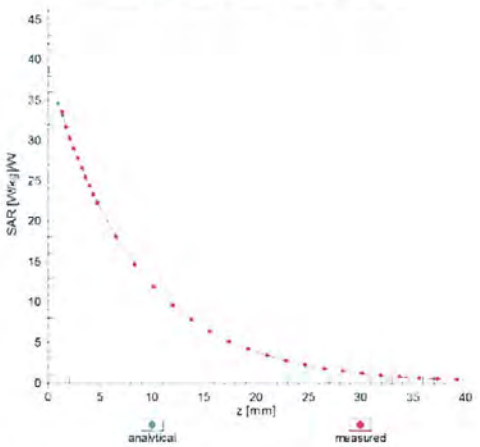
Conversion Factor Assessment

f = 2450 MHz,WGLS R22 (H_convF)

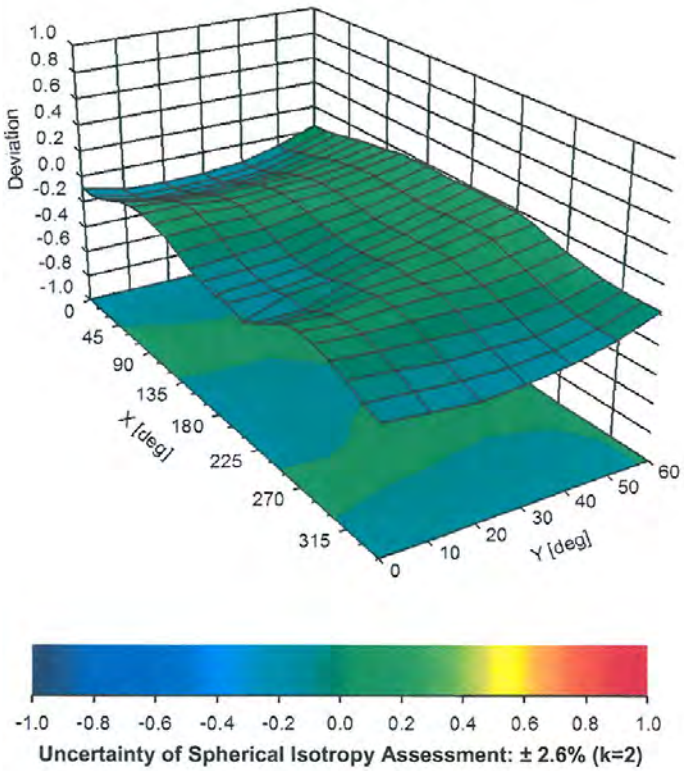


f = 2600 MHz,WGLS R22 (H_convF)



Deviation from Isotropy in Liquid

Error (ϕ, ϑ), f = 900 MHz



Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3916

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	88.5
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√μV	C	D dB	VR mV	Max Unc^E (k=2)
0	CW	X	0.00	0.00	1.00	0.00	130.6	± 3.3 %
		Y	0.00	0.00	1.00		140.9	
		Z	0.00	0.00	1.00		143.1	
10010-CAA	SAR Validation (Square, 100ms, 10ms)	X	5.40	74.40	15.48	10.00	20.0	± 9.6 %
		Y	3.36	68.51	12.46		20.0	
		Z	4.20	71.28	13.93		20.0	
10011-CAB	UMTS-FDD (WCDMA)	X	1.39	72.56	18.46	0.00	150.0	± 9.6 %
		Y	1.02	66.74	15.00		150.0	
		Z	1.11	68.51	16.07		150.0	
10012-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	X	1.30	65.68	16.72	0.41	150.0	± 9.6 %
		Y	1.20	63.68	14.99		150.0	
		Z	1.23	64.45	15.62		150.0	
10013-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	X	5.08	66.80	17.32	1.46	150.0	± 9.6 %
		Y	4.90	66.47	16.86		150.0	
		Z	4.96	66.68	17.06		150.0	
10021-DAC	GSM-FDD (TDMA, GMSK)	X	100.00	116.88	29.83	9.39	50.0	± 9.6 %
		Y	15.07	88.60	21.23		50.0	
		Z	44.37	104.29	26.18		50.0	
10023-DAC	GPRS-FDD (TDMA, GMSK, TN 0)	X	87.38	114.98	29.44	9.57	50.0	± 9.6 %
		Y	12.33	85.78	20.38		50.0	
		Z	30.28	98.95	24.79		50.0	
10024-DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	X	100.00	114.00	27.43	6.56	60.0	± 9.6 %
		Y	35.45	98.44	22.46		60.0	
		Z	100.00	112.50	26.49		60.0	
10025-DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	X	16.46	107.48	41.67	12.57	50.0	± 9.6 %
		Y	5.83	76.12	27.77		50.0	
		Z	11.71	97.36	37.66		50.0	
10026-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	X	20.12	106.82	37.09	9.56	60.0	± 9.6 %
		Y	10.35	90.91	31.04		60.0	
		Z	14.89	100.16	34.77		60.0	
10027-DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	X	100.00	113.47	26.41	4.80	80.0	± 9.6 %
		Y	100.00	109.17	24.02		80.0	
		Z	100.00	111.75	25.37		80.0	
10028-DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	X	100.00	114.41	26.14	3.55	100.0	± 9.6 %
		Y	100.00	109.29	23.43		100.0	
		Z	100.00	112.31	24.94		100.0	
10029-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	X	11.66	94.01	31.60	7.80	80.0	± 9.6 %
		Y	6.89	82.39	26.76		80.0	
		Z	8.83	88.26	29.38		80.0	
10030-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	X	100.00	112.67	26.36	5.30	70.0	± 9.6 %
		Y	25.22	93.73	20.46		70.0	
		Z	100.00	110.83	25.25		70.0	
10031-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	X	100.00	117.35	26.02	1.88	100.0	± 9.6 %
		Y	100.00	108.73	21.97		100.0	
		Z	100.00	112.96	23.91		100.0	

10032-CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	X	100.00	127.41	29.14	1.17	100.0	± 9.6 %
		Y	100.00	113.66	23.17		100.0	
		Z	100.00	119.44	25.65		100.0	
10033-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH1)	X	30.83	108.03	29.86	5.30	70.0	± 9.6 %
		Y	6.22	81.25	20.41		70.0	
		Z	11.41	91.07	24.18		70.0	
10034-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH3)	X	8.49	91.86	24.29	1.88	100.0	± 9.6 %
		Y	2.63	73.41	16.51		100.0	
		Z	4.00	79.65	19.30		100.0	
10035-CAA	IEEE 802.15.1 Bluetooth (PI/4-DQPSK, DH5)	X	4.68	84.68	21.92	1.17	100.0	± 9.6 %
		Y	1.95	71.00	15.44		100.0	
		Z	2.67	75.64	17.71		100.0	
10036-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	X	48.12	115.52	31.89	5.30	70.0	± 9.6 %
		Y	7.19	83.61	21.30		70.0	
		Z	14.49	94.97	25.45		70.0	
10037-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	X	8.13	91.27	24.06	1.88	100.0	± 9.6 %
		Y	2.51	72.89	16.27		100.0	
		Z	3.79	78.98	19.02		100.0	
10038-CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	X	4.88	85.63	22.34	1.17	100.0	± 9.6 %
		Y	1.97	71.31	15.67		100.0	
		Z	2.72	76.12	17.99		100.0	
10039-CAB	CDMA2000 (1xRTT, RC1)	X	3.20	79.92	20.27	0.00	150.0	± 9.6 %
		Y	1.86	71.85	15.95		150.0	
		Z	2.22	74.51	17.31		150.0	
10042-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	X	100.00	112.75	27.08	7.78	50.0	± 9.6 %
		Y	13.61	86.40	19.20		50.0	
		Z	100.00	111.31	26.19		50.0	
10044-CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	X	0.00	109.56	1.09	0.00	150.0	± 9.6 %
		Y	0.00	93.13	1.30		150.0	
		Z	0.00	96.67	0.00		150.0	
10048-CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	X	14.73	88.75	24.00	13.80	25.0	± 9.6 %
		Y	7.88	77.40	19.07		25.0	
		Z	10.99	83.14	21.59		25.0	
10049-CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	X	21.98	95.15	24.61	10.79	40.0	± 9.6 %
		Y	8.69	80.36	18.87		40.0	
		Z	13.76	87.53	21.76		40.0	
10056-CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	X	17.56	94.57	26.40	9.03	50.0	± 9.6 %
		Y	9.09	82.60	21.34		50.0	
		Z	12.86	88.73	23.91		50.0	
10058-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	X	8.17	86.70	28.21	6.55	100.0	± 9.6 %
		Y	5.30	77.65	24.18		100.0	
		Z	6.38	81.83	26.19		100.0	
10059-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	X	1.43	67.70	17.69	0.61	110.0	± 9.6 %
		Y	1.25	64.76	15.49		110.0	
		Z	1.31	65.89	16.31		110.0	
10060-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	X	100.00	135.81	35.33	1.30	110.0	± 9.6 %
		Y	4.65	88.20	22.20		110.0	
		Z	56.12	124.68	32.11		110.0	

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10061-CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	X	11.00	100.50	28.70	2.04	110.0	± 9.6 %
		Y	2.79	76.85	19.94		110.0	
		Z	4.37	84.57	23.16		110.0	
10062-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	X	4.89	66.84	16.79	0.49	100.0	± 9.6 %
		Y	4.71	66.52	16.38		100.0	
		Z	4.75	66.69	16.53		100.0	
10063-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	X	4.91	66.95	16.90	0.72	100.0	± 9.6 %
		Y	4.73	66.60	16.45		100.0	
		Z	4.77	66.79	16.63		100.0	
10064-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	X	5.25	67.27	17.14	0.86	100.0	± 9.6 %
		Y	5.02	66.86	16.67		100.0	
		Z	5.08	67.07	16.86		100.0	
10065-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	X	5.12	67.20	17.24	1.21	100.0	± 9.6 %
		Y	4.89	66.75	16.74		100.0	
		Z	4.95	66.99	16.94		100.0	
10066-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	X	5.15	67.26	17.42	1.46	100.0	± 9.6 %
		Y	4.91	66.76	16.88		100.0	
		Z	4.98	67.02	17.11		100.0	
10067-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	X	5.43	67.28	17.79	2.04	100.0	± 9.6 %
		Y	5.19	66.87	17.27		100.0	
		Z	5.26	67.12	17.50		100.0	
10068-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	X	5.53	67.56	18.10	2.55	100.0	± 9.6 %
		Y	5.26	66.98	17.49		100.0	
		Z	5.34	67.30	17.78		100.0	
10069-CAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	X	5.60	67.43	18.24	2.67	100.0	± 9.6 %
		Y	5.34	66.96	17.67		100.0	
		Z	5.42	67.26	17.95		100.0	
10071-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	X	5.19	66.92	17.63	1.99	100.0	± 9.6 %
		Y	5.00	66.55	17.12		100.0	
		Z	5.06	66.79	17.36		100.0	
10072-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	X	5.21	67.39	17.89	2.30	100.0	± 9.6 %
		Y	4.99	66.88	17.32		100.0	
		Z	5.06	67.18	17.58		100.0	
10073-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	X	5.29	67.58	18.22	2.83	100.0	± 9.6 %
		Y	5.06	67.03	17.61		100.0	
		Z	5.14	67.37	17.91		100.0	
10074-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	X	5.28	67.53	18.41	3.30	100.0	± 9.6 %
		Y	5.05	66.95	17.75		100.0	
		Z	5.13	67.31	18.07		100.0	
10075-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	X	5.38	67.89	18.83	3.82	90.0	± 9.6 %
		Y	5.11	67.13	18.07		90.0	
		Z	5.21	67.56	18.44		90.0	
10076-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	X	5.35	67.56	18.88	4.15	90.0	± 9.6 %
		Y	5.12	66.92	18.16		90.0	
		Z	5.21	67.33	18.53		90.0	
10077-CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	X	5.37	67.61	18.97	4.30	90.0	± 9.6 %
		Y	5.14	66.98	18.26		90.0	
		Z	5.24	67.39	18.63		90.0	

10081-CAB	CDMA2000 (1xRTT, RC3)	X	1.42	73.10	17.37	0.00	150.0	± 9.6 %
		Y	0.87	65.94	12.88		150.0	
		Z	0.99	67.83	14.08		150.0	
10082-CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Fullrate)	X	1.22	60.69	6.08	4.77	80.0	± 9.6 %
		Y	0.89	59.21	4.75		80.0	
		Z	1.03	60.00	5.44		80.0	
10090-DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	X	100.00	114.04	27.47	6.56	60.0	± 9.6 %
		Y	33.48	97.78	22.31		60.0	
		Z	100.00	112.53	26.52		60.0	
10097-CAB	UMTS-FDD (HSDPA)	X	2.06	69.48	17.21	0.00	150.0	± 9.6 %
		Y	1.83	67.32	15.58		150.0	
		Z	1.90	68.12	16.11		150.0	
10098-CAB	UMTS-FDD (HSUPA, Subtest 2)	X	2.02	69.49	17.20	0.00	150.0	± 9.6 %
		Y	1.79	67.26	15.54		150.0	
		Z	1.86	68.08	16.09		150.0	
10099-DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	X	20.14	106.79	37.07	9.56	60.0	± 9.6 %
		Y	10.39	90.94	31.04		60.0	
		Z	14.93	100.16	34.76		60.0	
10100-CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	3.69	72.79	18.00	0.00	150.0	± 9.6 %
		Y	3.15	70.15	16.61		150.0	
		Z	3.30	71.04	17.06		150.0	
10101-CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	3.53	68.63	16.69	0.00	150.0	± 9.6 %
		Y	3.27	67.44	15.88		150.0	
		Z	3.34	67.86	16.14		150.0	
10102-CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	3.61	68.47	16.73	0.00	150.0	± 9.6 %
		Y	3.38	67.42	15.99		150.0	
		Z	3.44	67.79	16.22		150.0	
10103-CAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	X	8.10	78.03	21.19	3.98	65.0	± 9.6 %
		Y	6.29	74.08	19.30		65.0	
		Z	7.08	76.12	20.29		65.0	
10104-CAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	X	7.87	76.20	21.37	3.98	65.0	± 9.6 %
		Y	6.69	73.55	19.92		65.0	
		Z	7.17	74.86	20.64		65.0	
10105-CAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	X	7.57	75.42	21.36	3.98	65.0	± 9.6 %
		Y	6.12	71.80	19.44		65.0	
		Z	6.76	73.66	20.43		65.0	
10108-CAD	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	3.24	71.87	17.81	0.00	150.0	± 9.6 %
		Y	2.76	69.35	16.42		150.0	
		Z	2.89	70.20	16.88		150.0	
10109-CAD	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	3.20	68.51	16.70	0.00	150.0	± 9.6 %
		Y	2.93	67.27	15.79		150.0	
		Z	3.00	67.70	16.08		150.0	
10110-CAD	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	2.66	70.93	17.58	0.00	150.0	± 9.6 %
		Y	2.24	68.38	16.01		150.0	
		Z	2.36	69.27	16.54		150.0	
10111-CAD	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	2.93	69.33	17.18	0.00	150.0	± 9.6 %
		Y	2.65	68.05	16.11		150.0	
		Z	2.72	68.50	16.44		150.0	

10112-CAD	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	3.31	68.34	16.68	0.00	150.0	± 9.6 %
		Y	3.06	67.27	15.86		150.0	
		Z	3.12	67.65	16.12		150.0	
10113-CAD	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	3.08	69.28	17.21	0.00	150.0	± 9.6 %
		Y	2.81	68.19	16.25		150.0	
		Z	2.87	68.58	16.54		150.0	
10114-CAB	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	X	5.29	67.38	16.67	0.00	150.0	± 9.6 %
		Y	5.17	67.15	16.40		150.0	
		Z	5.18	67.24	16.47		150.0	
10115-CAB	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	X	5.67	67.67	16.81	0.00	150.0	± 9.6 %
		Y	5.48	67.35	16.51		150.0	
		Z	5.52	67.50	16.61		150.0	
10116-CAB	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	X	5.42	67.64	16.72	0.00	150.0	± 9.6 %
		Y	5.27	67.37	16.44		150.0	
		Z	5.30	67.48	16.52		150.0	
10117-CAB	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	X	5.30	67.41	16.70	0.00	150.0	± 9.6 %
		Y	5.14	67.05	16.37		150.0	
		Z	5.17	67.18	16.46		150.0	
10118-CAB	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	X	5.73	67.77	16.87	0.00	150.0	± 9.6 %
		Y	5.56	67.54	16.61		150.0	
		Z	5.59	67.66	16.69		150.0	
10119-CAB	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	X	5.39	67.59	16.71	0.00	150.0	± 9.6 %
		Y	5.24	67.30	16.41		150.0	
		Z	5.27	67.41	16.49		150.0	
10140-CAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	3.67	68.47	16.65	0.00	150.0	± 9.6 %
		Y	3.42	67.42	15.91		150.0	
		Z	3.48	67.79	16.14		150.0	
10141-CAC	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	3.78	68.45	16.76	0.00	150.0	± 9.6 %
		Y	3.54	67.53	16.08		150.0	
		Z	3.60	67.85	16.29		150.0	
10142-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	2.46	71.17	17.59	0.00	150.0	± 9.6 %
		Y	2.02	68.35	15.73		150.0	
		Z	2.14	69.35	16.35		150.0	
10143-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	2.88	70.45	17.34	0.00	150.0	± 9.6 %
		Y	2.52	68.81	15.92		150.0	
		Z	2.62	69.41	16.35		150.0	
10144-CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	2.64	68.20	15.82	0.00	150.0	± 9.6 %
		Y	2.30	66.57	14.33		150.0	
		Z	2.39	67.17	14.80		150.0	
10145-CAD	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	1.97	71.13	16.35	0.00	150.0	± 9.6 %
		Y	1.33	65.79	12.54		150.0	
		Z	1.47	67.23	13.55		150.0	
10146-CAD	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	3.30	72.92	16.29	0.00	150.0	± 9.6 %
		Y	2.11	66.90	12.19		150.0	
		Z	2.41	68.63	13.33		150.0	
10147-CAD	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	4.27	76.67	17.99	0.00	150.0	± 9.6 %
		Y	2.52	69.08	13.36		150.0	
		Z	2.98	71.43	14.72		150.0	

10149-CAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	3.21	68.57	16.74	0.00	150.0	± 9.6 %
		Y	2.94	67.33	15.84		150.0	
		Z	3.01	67.76	16.13		150.0	
10150-CAC	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	3.32	68.39	16.72	0.00	150.0	± 9.6 %
		Y	3.07	67.32	15.90		150.0	
		Z	3.13	67.70	16.16		150.0	
10151-CAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	8.58	80.32	22.20	3.98	65.0	± 9.6 %
		Y	6.75	76.58	20.37		65.0	
		Z	7.57	78.60	21.35		65.0	
10152-CAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	X	7.49	76.41	21.27	3.98	65.0	± 9.6 %
		Y	6.19	73.34	19.54		65.0	
		Z	6.71	74.84	20.38		65.0	
10153-CAC	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	X	7.83	77.12	21.92	3.98	65.0	± 9.6 %
		Y	6.58	74.30	20.32		65.0	
		Z	7.09	75.70	21.10		65.0	
10154-CAD	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	2.75	71.53	17.93	0.00	150.0	± 9.6 %
		Y	2.30	68.84	16.30		150.0	
		Z	2.41	69.74	16.82		150.0	
10155-CAD	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	2.93	69.33	17.18	0.00	150.0	± 9.6 %
		Y	2.65	68.05	16.13		150.0	
		Z	2.72	68.51	16.45		150.0	
10156-CAD	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	2.38	71.86	17.81	0.00	150.0	± 9.6 %
		Y	1.87	68.49	15.59		150.0	
		Z	2.01	69.65	16.31		150.0	
10157-CAD	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	2.54	69.29	16.24	0.00	150.0	± 9.6 %
		Y	2.14	67.17	14.43		150.0	
		Z	2.25	67.94	15.00		150.0	
10158-CAD	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	3.08	69.34	17.25	0.00	150.0	± 9.6 %
		Y	2.81	68.26	16.30		150.0	
		Z	2.88	68.64	16.58		150.0	
10159-CAD	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	2.67	69.80	16.55	0.00	150.0	± 9.6 %
		Y	2.26	67.69	14.75		150.0	
		Z	2.37	68.45	15.30		150.0	
10160-CAC	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	3.09	70.07	17.29	0.00	150.0	± 9.6 %
		Y	2.76	68.39	16.19		150.0	
		Z	2.85	68.98	16.55		150.0	
10161-CAC	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	3.21	68.30	16.69	0.00	150.0	± 9.6 %
		Y	2.96	67.26	15.84		150.0	
		Z	3.03	67.63	16.10		150.0	
10162-CAC	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	3.31	68.29	16.72	0.00	150.0	± 9.6 %
		Y	3.07	67.39	15.94		150.0	
		Z	3.13	67.73	16.19		150.0	
10166-CAD	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	3.86	69.75	19.34	3.01	150.0	± 9.6 %
		Y	3.63	69.36	18.91		150.0	
		Z	3.69	69.67	19.13		150.0	
10167-CAD	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	4.87	72.82	19.91	3.01	150.0	± 9.6 %
		Y	4.54	72.54	19.49		150.0	
		Z	4.65	72.92	19.75		150.0	

10168-CAD	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	5.32	74.71	21.04	3.01	150.0	± 9.6 %
		Y	5.10	75.07	20.94		150.0	
		Z	5.16	75.15	21.04		150.0	
10169-CAC	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	3.46	71.17	19.97	3.01	150.0	± 9.6 %
		Y	3.07	69.39	18.92		150.0	
		Z	3.16	70.01	19.31		150.0	
10170-CAC	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	5.14	78.14	22.55	3.01	150.0	± 9.6 %
		Y	4.51	76.58	21.73		150.0	
		Z	4.64	77.14	22.03		150.0	
10171-AAC	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	4.13	73.51	19.71	3.01	150.0	± 9.6 %
		Y	3.54	71.50	18.56		150.0	
		Z	3.71	72.41	19.09		150.0	
10172-CAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	X	21.90	104.86	32.02	6.02	65.0	± 9.6 %
		Y	7.10	84.70	25.06		65.0	
		Z	12.72	95.84	29.16		65.0	
10173-CAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	X	26.51	103.09	29.60	6.02	65.0	± 9.6 %
		Y	12.97	91.55	25.49		65.0	
		Z	20.84	99.89	28.40		65.0	
10174-CAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	X	19.01	96.03	27.00	6.02	65.0	± 9.6 %
		Y	8.59	84.00	22.54		65.0	
		Z	14.03	92.06	25.51		65.0	
10175-CAD	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	3.41	70.80	19.70	3.01	150.0	± 9.6 %
		Y	3.03	69.03	18.64		150.0	
		Z	3.11	69.68	19.06		150.0	
10176-CAD	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	5.15	78.16	22.56	3.01	150.0	± 9.6 %
		Y	4.52	76.61	21.74		150.0	
		Z	4.65	77.16	22.05		150.0	
10177-CAF	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	3.44	70.99	19.82	3.01	150.0	± 9.6 %
		Y	3.06	69.21	18.76		150.0	
		Z	3.14	69.85	19.16		150.0	
10178-CAD	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	5.06	77.81	22.39	3.01	150.0	± 9.6 %
		Y	4.46	76.29	21.59		150.0	
		Z	4.59	76.88	21.90		150.0	
10179-CAD	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	4.58	75.64	20.97	3.01	150.0	± 9.6 %
		Y	3.96	73.80	19.96		150.0	
		Z	4.13	74.61	20.41		150.0	
10180-CAD	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	4.11	73.39	19.64	3.01	150.0	± 9.6 %
		Y	3.53	71.40	18.50		150.0	
		Z	3.69	72.32	19.03		150.0	
10181-CAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	3.44	70.97	19.81	3.01	150.0	± 9.6 %
		Y	3.05	69.19	18.75		150.0	
		Z	3.14	69.83	19.15		150.0	
10182-CAC	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	5.05	77.79	22.38	3.01	150.0	± 9.6 %
		Y	4.45	76.27	21.57		150.0	
		Z	4.58	76.85	21.89		150.0	
10183-AAB	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	4.11	73.36	19.63	3.01	150.0	± 9.6 %
		Y	3.52	71.37	18.49		150.0	
		Z	3.69	72.29	19.02		150.0	

10184-CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	3.45	71.01	19.83	3.01	150.0	± 9.6 %
		Y	3.06	69.24	18.77		150.0	
		Z	3.15	69.87	19.17		150.0	
10185-CAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	5.08	77.87	22.42	3.01	150.0	± 9.6 %
		Y	4.47	76.35	21.62		150.0	
		Z	4.60	76.93	21.93		150.0	
10186-AAD	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	4.13	73.44	19.67	3.01	150.0	± 9.6 %
		Y	3.54	71.45	18.53		150.0	
		Z	3.71	72.37	19.05		150.0	
10187-CAD	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	3.46	71.05	19.88	3.01	150.0	± 9.6 %
		Y	3.07	69.29	18.83		150.0	
		Z	3.16	69.92	19.23		150.0	
10188-CAD	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	5.28	78.69	22.85	3.01	150.0	± 9.6 %
		Y	4.66	77.23	22.08		150.0	
		Z	4.78	77.72	22.35		150.0	
10189-AAD	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	4.24	73.95	19.97	3.01	150.0	± 9.6 %
		Y	3.63	71.95	18.84		150.0	
		Z	3.80	72.86	19.35		150.0	
10193-CAB	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	X	4.73	66.82	16.49	0.00	150.0	± 9.6 %
		Y	4.57	66.56	16.12		150.0	
		Z	4.60	66.68	16.23		150.0	
10194-CAB	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	X	4.94	67.20	16.60	0.00	150.0	± 9.6 %
		Y	4.75	66.89	16.24		150.0	
		Z	4.78	67.02	16.35		150.0	
10195-CAB	IEEE 802.11n (HT Greenfield, 65 Mbps, 64-QAM)	X	4.97	67.20	16.60	0.00	150.0	± 9.6 %
		Y	4.79	66.92	16.26		150.0	
		Z	4.82	67.04	16.36		150.0	
10196-CAB	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	X	4.75	66.93	16.53	0.00	150.0	± 9.6 %
		Y	4.58	66.63	16.15		150.0	
		Z	4.61	66.76	16.26		150.0	
10197-CAB	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	X	4.95	67.22	16.61	0.00	150.0	± 9.6 %
		Y	4.76	66.91	16.26		150.0	
		Z	4.80	67.04	16.36		150.0	
10198-CAB	IEEE 802.11n (HT Mixed, 65 Mbps, 64-QAM)	X	4.98	67.22	16.61	0.00	150.0	± 9.6 %
		Y	4.79	66.93	16.27		150.0	
		Z	4.83	67.06	16.37		150.0	
10219-CAB	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	X	4.70	66.95	16.50	0.00	150.0	± 9.6 %
		Y	4.53	66.64	16.11		150.0	
		Z	4.56	66.77	16.22		150.0	
10220-CAB	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	X	4.95	67.22	16.61	0.00	150.0	± 9.6 %
		Y	4.76	66.88	16.25		150.0	
		Z	4.79	67.02	16.35		150.0	
10221-CAB	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	X	4.98	67.15	16.60	0.00	150.0	± 9.6 %
		Y	4.80	66.86	16.26		150.0	
		Z	4.83	66.98	16.36		150.0	
10222-CAB	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	X	5.28	67.44	16.71	0.00	150.0	± 9.6 %
		Y	5.12	67.06	16.36		150.0	
		Z	5.15	67.20	16.46		150.0	

10223-CAB	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	X	5.66	67.74	16.87	0.00	150.0	± 9.6 %
		Y	5.42	67.24	16.48		150.0	
		Z	5.46	67.37	16.56		150.0	
10224-CAB	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	X	5.34	67.56	16.69	0.00	150.0	± 9.6 %
		Y	5.16	67.17	16.35		150.0	
		Z	5.19	67.30	16.44		150.0	
10225-CAB	UMTS-FDD (HSPA+)	X	3.03	66.71	16.14	0.00	150.0	± 9.6 %
		Y	2.84	66.03	15.33		150.0	
		Z	2.89	66.31	15.58		150.0	
10226-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	X	28.53	104.52	30.11	6.02	65.0	± 9.6 %
		Y	13.92	92.85	26.00		65.0	
		Z	22.56	101.40	28.94		65.0	
10227-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	X	21.42	98.09	27.69	6.02	65.0	± 9.6 %
		Y	12.22	89.42	24.34		65.0	
		Z	18.26	96.29	26.84		65.0	
10228-CAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	X	24.07	107.08	32.76	6.02	65.0	± 9.6 %
		Y	9.87	90.91	27.23		65.0	
		Z	15.77	100.13	30.56		65.0	
10229-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	X	26.61	103.14	29.63	6.02	65.0	± 9.6 %
		Y	13.07	91.66	25.54		65.0	
		Z	20.97	99.99	28.44		65.0	
10230-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	X	20.22	97.01	27.30	6.02	65.0	± 9.6 %
		Y	11.52	88.39	23.93		65.0	
		Z	17.12	95.13	26.41		65.0	
10231-CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	X	22.70	105.82	32.31	6.02	65.0	± 9.6 %
		Y	9.41	89.94	26.83		65.0	
		Z	14.92	98.97	30.12		65.0	
10232-CAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	X	26.60	103.14	29.63	6.02	65.0	± 9.6 %
		Y	13.05	91.64	25.53		65.0	
		Z	20.95	99.98	28.44		65.0	
10233-CAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	X	20.22	97.02	27.30	6.02	65.0	± 9.6 %
		Y	11.50	88.37	23.92		65.0	
		Z	17.10	95.12	26.41		65.0	
10234-CAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	X	21.36	104.45	31.80	6.02	65.0	± 9.6 %
		Y	9.01	89.00	26.40		65.0	
		Z	14.16	97.80	29.64		65.0	
10235-CAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	X	26.67	103.20	29.64	6.02	65.0	± 9.6 %
		Y	13.06	91.67	25.54		65.0	
		Z	20.99	100.03	28.45		65.0	
10236-CAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	X	20.43	97.18	27.34	6.02	65.0	± 9.6 %
		Y	11.60	88.48	23.96		65.0	
		Z	17.28	95.27	26.45		65.0	
10237-CAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	X	22.89	106.01	32.37	6.02	65.0	± 9.6 %
		Y	9.43	90.00	26.85		65.0	
		Z	15.00	99.10	30.16		65.0	
10238-CAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	X	26.60	103.15	29.62	6.02	65.0	± 9.6 %
		Y	13.02	91.62	25.52		65.0	
		Z	20.92	99.96	28.43		65.0	

10239-CAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	X	20.21	97.03	27.30	6.02	65.0	± 9.6 %
		Y	11.47	88.35	23.92		65.0	
		Z	17.07	95.11	26.40		65.0	
10240-CAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	X	22.80	105.94	32.35	6.02	65.0	± 9.6 %
		Y	9.40	89.95	26.83		65.0	
		Z	14.95	99.04	30.14		65.0	
10241-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	X	10.13	83.23	26.16	6.98	65.0	± 9.6 %
		Y	8.54	80.58	24.55		65.0	
		Z	9.43	82.68	25.67		65.0	
10242-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	X	9.45	81.70	25.46	6.98	65.0	± 9.6 %
		Y	7.38	77.61	23.26		65.0	
		Z	8.48	80.46	24.70		65.0	
10243-CAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	X	7.75	79.17	25.33	6.98	65.0	± 9.6 %
		Y	6.05	74.55	22.79		65.0	
		Z	6.84	77.27	24.27		65.0	
10244-CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	8.21	79.26	20.66	3.98	65.0	± 9.6 %
		Y	5.73	73.50	17.20		65.0	
		Z	6.67	75.97	18.58		65.0	
10245-CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	8.11	78.79	20.44	3.98	65.0	± 9.6 %
		Y	5.66	73.09	16.98		65.0	
		Z	6.57	75.49	18.34		65.0	
10246-CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	9.12	84.21	22.58	3.98	65.0	± 9.6 %
		Y	5.24	75.32	18.20		65.0	
		Z	6.62	79.07	20.02		65.0	
10247-CAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	X	7.04	77.55	20.71	3.98	65.0	± 9.6 %
		Y	5.23	72.78	17.82		65.0	
		Z	5.91	74.83	18.99		65.0	
10248-CAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	X	7.03	76.99	20.47	3.98	65.0	± 9.6 %
		Y	5.26	72.41	17.65		65.0	
		Z	5.92	74.37	18.79		65.0	
10249-CAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	X	9.95	85.73	23.70	3.98	65.0	± 9.6 %
		Y	6.24	78.09	20.08		65.0	
		Z	7.75	81.74	21.77		65.0	
10250-CAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	X	7.76	79.02	22.45	3.98	65.0	± 9.6 %
		Y	6.20	75.31	20.36		65.0	
		Z	6.84	77.09	21.32		65.0	
10251-CAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	X	7.32	76.73	21.24	3.98	65.0	± 9.6 %
		Y	5.95	73.46	19.26		65.0	
		Z	6.52	75.10	20.19		65.0	
10252-CAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	X	9.39	83.89	23.62	3.98	65.0	± 9.6 %
		Y	6.73	78.51	21.09		65.0	
		Z	7.91	81.35	22.41		65.0	
10253-CAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	X	7.24	75.68	21.03	3.98	65.0	± 9.6 %
		Y	6.06	72.85	19.34		65.0	
		Z	6.55	74.26	20.16		65.0	
10254-CAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	X	7.60	76.42	21.65	3.98	65.0	± 9.6 %
		Y	6.43	73.75	20.04		65.0	
		Z	6.91	75.09	20.81		65.0	

10255-CAC	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	X	8.18	79.74	22.25	3.98	65.0	± 9.6 %
		Y	6.50	76.12	20.40		65.0	
		Z	7.25	78.07	21.38		65.0	
10256-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	X	7.23	77.05	19.00	3.98	65.0	± 9.6 %
		Y	4.57	70.10	14.77		65.0	
		Z	5.41	72.60	16.26		65.0	
10257-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	X	7.10	76.40	18.67	3.98	65.0	± 9.6 %
		Y	4.52	69.62	14.47		65.0	
		Z	5.30	71.99	15.92		65.0	
10258-CAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	X	7.84	81.51	21.04	3.98	65.0	± 9.6 %
		Y	4.18	71.75	15.96		65.0	
		Z	5.25	75.21	17.80		65.0	
10259-CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	X	7.31	77.99	21.29	3.98	65.0	± 9.6 %
		Y	5.61	73.71	18.73		65.0	
		Z	6.28	75.65	19.83		65.0	
10260-CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	X	7.34	77.72	21.20	3.98	65.0	± 9.6 %
		Y	5.66	73.54	18.68		65.0	
		Z	6.31	75.42	19.74		65.0	
10261-CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	X	9.22	84.15	23.43	3.98	65.0	± 9.6 %
		Y	6.20	77.65	20.28		65.0	
		Z	7.46	80.84	21.79		65.0	
10262-CAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	X	7.76	78.98	22.41	3.98	65.0	± 9.6 %
		Y	6.19	75.26	20.32		65.0	
		Z	6.83	77.04	21.28		65.0	
10263-CAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	X	7.32	76.73	21.24	3.98	65.0	± 9.6 %
		Y	5.95	73.45	19.26		65.0	
		Z	6.52	75.08	20.19		65.0	
10264-CAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	X	9.31	83.73	23.55	3.98	65.0	± 9.6 %
		Y	6.68	78.35	21.00		65.0	
		Z	7.85	81.18	22.32		65.0	
10265-CAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	X	7.49	76.41	21.27	3.98	65.0	± 9.6 %
		Y	6.18	73.34	19.54		65.0	
		Z	6.71	74.84	20.38		65.0	
10266-CAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	X	7.83	77.11	21.91	3.98	65.0	± 9.6 %
		Y	6.57	74.29	20.31		65.0	
		Z	7.09	75.69	21.09		65.0	
10267-CAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	X	8.56	80.28	22.18	3.98	65.0	± 9.6 %
		Y	6.74	76.55	20.35		65.0	
		Z	7.56	78.56	21.34		65.0	
10268-CAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	X	7.94	75.82	21.36	3.98	65.0	± 9.6 %
		Y	6.85	73.45	20.01		65.0	
		Z	7.29	74.64	20.68		65.0	
10269-CAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	X	7.85	75.34	21.24	3.98	65.0	± 9.6 %
		Y	6.83	73.11	19.93		65.0	
		Z	7.24	74.24	20.58		65.0	
10270-CAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	8.03	77.32	21.16	3.98	65.0	± 9.6 %
		Y	6.75	74.68	19.78		65.0	
		Z	7.31	76.08	20.51		65.0	

10274-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	X	2.76	67.10	16.08	0.00	150.0	± 9.6 %
		Y	2.61	66.31	15.20		150.0	
		Z	2.65	66.66	15.50		150.0	
10275-CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	X	1.96	70.91	17.55	0.00	150.0	± 9.6 %
		Y	1.61	67.49	15.39		150.0	
		Z	1.71	68.66	16.10		150.0	
10277-CAA	PHS (QPSK)	X	3.68	65.62	11.02	9.03	50.0	± 9.6 %
		Y	2.90	63.08	8.79		50.0	
		Z	3.16	63.97	9.58		50.0	
10278-CAA	PHS (QPSK, BW 884MHz, Rolloff 0.5)	X	8.99	81.35	20.65	9.03	50.0	± 9.6 %
		Y	4.90	71.24	15.34		50.0	
		Z	6.05	74.59	17.21		50.0	
10279-CAA	PHS (QPSK, BW 884MHz, Rolloff 0.38)	X	9.23	81.62	20.78	9.03	50.0	± 9.6 %
		Y	5.02	71.48	15.48		50.0	
		Z	6.20	74.86	17.36		50.0	
10290-AAB	CDMA2000, RC1, SO55, Full Rate	X	2.36	75.15	18.14	0.00	150.0	± 9.6 %
		Y	1.50	68.70	14.27		150.0	
		Z	1.72	70.74	15.44		150.0	
10291-AAB	CDMA2000, RC3, SO55, Full Rate	X	1.37	72.61	17.15	0.00	150.0	± 9.6 %
		Y	0.86	65.73	12.75		150.0	
		Z	0.96	67.53	13.92		150.0	
10292-AAB	CDMA2000, RC3, SO32, Full Rate	X	2.27	81.76	21.28	0.00	150.0	± 9.6 %
		Y	1.07	69.69	15.09		150.0	
		Z	1.33	73.05	16.86		150.0	
10293-AAB	CDMA2000, RC3, SO3, Full Rate	X	4.49	93.26	25.73	0.00	150.0	± 9.6 %
		Y	1.61	75.74	18.15		150.0	
		Z	2.20	80.82	20.41		150.0	
10295-AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	X	8.87	83.06	23.96	9.03	50.0	± 9.6 %
		Y	7.26	78.49	20.99		50.0	
		Z	8.27	81.20	22.50		50.0	
10297-AAB	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	X	3.26	71.98	17.89	0.00	150.0	± 9.6 %
		Y	2.77	69.45	16.49		150.0	
		Z	2.90	70.30	16.95		150.0	
10298-AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	X	2.23	72.12	17.36	0.00	150.0	± 9.6 %
		Y	1.62	67.73	14.37		150.0	
		Z	1.78	69.13	15.27		150.0	
10299-AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	X	3.63	73.69	17.29	0.00	150.0	± 9.6 %
		Y	2.75	69.80	14.46		150.0	
		Z	3.04	71.27	15.39		150.0	
10300-AAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	X	2.69	68.40	14.23	0.00	150.0	± 9.6 %
		Y	2.08	65.41	11.67		150.0	
		Z	2.23	66.30	12.38		150.0	
10301-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	X	5.13	65.87	17.96	4.17	50.0	± 9.6 %
		Y	4.81	65.37	17.43		50.0	
		Z	5.06	66.33	18.01		50.0	
10302-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3 CTRL symbols)	X	5.70	66.93	18.93	4.96	50.0	± 9.6 %
		Y	5.30	66.00	18.14		50.0	
		Z	5.48	66.68	18.57		50.0	

10303-AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	X	5.49	66.79	18.92	4.96	50.0	± 9.6 %
		Y	5.06	65.71	18.01		50.0	
		Z	5.25	66.44	18.49		50.0	
10304-AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	X	5.23	66.41	18.25	4.17	50.0	± 9.6 %
		Y	4.84	65.50	17.47		50.0	
		Z	5.01	66.12	17.87		50.0	
10305-AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC, 15 symbols)	X	5.34	70.68	21.92	6.02	35.0	± 9.6 %
		Y	4.72	68.38	20.06		35.0	
		Z	5.10	70.18	21.19		35.0	
10306-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC, 18 symbols)	X	5.37	67.76	20.20	6.02	35.0	± 9.6 %
		Y	4.92	66.90	19.39		35.0	
		Z	5.17	68.08	20.19		35.0	
10307-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC, 18 symbols)	X	5.38	69.02	20.91	6.02	35.0	± 9.6 %
		Y	4.86	67.24	19.43		35.0	
		Z	5.14	68.56	20.30		35.0	
10308-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	X	5.36	69.26	21.07	6.02	35.0	± 9.6 %
		Y	4.84	67.46	19.58		35.0	
		Z	5.13	68.84	20.48		35.0	
10309-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3, 18 symbols)	X	5.47	68.09	20.38	6.02	35.0	± 9.6 %
		Y	4.99	67.13	19.53		35.0	
		Z	5.26	68.38	20.36		35.0	
10310-AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3, 18 symbols)	X	5.33	67.86	20.17	6.02	35.0	± 9.6 %
		Y	4.88	67.02	19.39		35.0	
		Z	5.14	68.25	20.21		35.0	
10311-AAB	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	X	3.64	71.18	17.45	0.00	150.0	± 9.6 %
		Y	3.13	68.80	16.16		150.0	
		Z	3.27	69.59	16.58		150.0	
10313-AAA	iDEN 1:3	X	6.16	77.43	17.90	6.99	70.0	± 9.6 %
		Y	3.62	70.96	15.03		70.0	
		Z	4.57	73.88	16.39		70.0	
10314-AAA	iDEN 1:6	X	8.53	85.24	23.36	10.00	30.0	± 9.6 %
		Y	4.39	75.16	19.39		30.0	
		Z	5.79	79.42	21.18		30.0	
10315-AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc duty cycle)	X	1.18	65.46	16.66	0.17	150.0	± 9.6 %
		Y	1.10	63.55	14.94		150.0	
		Z	1.13	64.26	15.53		150.0	
10316-AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 96pc duty cycle)	X	4.79	66.87	16.59	0.17	150.0	± 9.6 %
		Y	4.61	66.54	16.17		150.0	
		Z	4.66	66.71	16.32		150.0	
10317-AAB	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc duty cycle)	X	4.79	66.87	16.59	0.17	150.0	± 9.6 %
		Y	4.61	66.54	16.17		150.0	
		Z	4.66	66.71	16.32		150.0	
10400-AAC	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc duty cycle)	X	4.95	67.26	16.59	0.00	150.0	± 9.6 %
		Y	4.74	66.93	16.23		150.0	
		Z	4.78	67.07	16.34		150.0	
10401-AAC	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc duty cycle)	X	5.54	67.21	16.59	0.00	150.0	± 9.6 %
		Y	5.42	67.09	16.37		150.0	
		Z	5.44	67.16	16.44		150.0	

10402-AAC	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc duty cycle)	X	5.86	67.83	16.73	0.00	150.0	± 9.6 %
		Y	5.69	67.48	16.42		150.0	
		Z	5.72	67.60	16.51		150.0	
10403-AAB	CDMA2000 (1xEV-DO, Rev. 0)	X	2.36	75.15	18.14	0.00	115.0	± 9.6 %
		Y	1.50	68.70	14.27		115.0	
		Z	1.72	70.74	15.44		115.0	
10404-AAB	CDMA2000 (1xEV-DO, Rev. A)	X	2.36	75.15	18.14	0.00	115.0	± 9.6 %
		Y	1.50	68.70	14.27		115.0	
		Z	1.72	70.74	15.44		115.0	
10406-AAB	CDMA2000, RC3, SO32, SCH0, Full Rate	X	100.00	125.57	32.61	0.00	100.0	± 9.6 %
		Y	100.00	119.65	29.46		100.0	
		Z	100.00	121.40	30.32		100.0	
10410-AAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	118.78	29.59	3.23	80.0	± 9.6 %
		Y	11.23	89.06	20.95		80.0	
		Z	58.47	110.84	27.09		80.0	
10415-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc duty cycle)	X	1.06	64.20	15.95	0.00	150.0	± 9.6 %
		Y	1.02	62.77	14.49		150.0	
		Z	1.03	63.30	14.97		150.0	
10416-AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc duty cycle)	X	4.73	66.85	16.52	0.00	150.0	± 9.6 %
		Y	4.57	66.60	16.18		150.0	
		Z	4.60	66.72	16.29		150.0	
10417-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc duty cycle)	X	4.73	66.85	16.52	0.00	150.0	± 9.6 %
		Y	4.57	66.60	16.18		150.0	
		Z	4.60	66.72	16.29		150.0	
10418-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Long preambule)	X	4.72	67.00	16.53	0.00	150.0	± 9.6 %
		Y	4.56	66.75	16.20		150.0	
		Z	4.59	66.87	16.30		150.0	
10419-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc duty cycle, Short preambule)	X	4.74	66.95	16.54	0.00	150.0	± 9.6 %
		Y	4.58	66.70	16.20		150.0	
		Z	4.61	66.82	16.30		150.0	
10422-AAA	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	X	4.87	66.95	16.54	0.00	150.0	± 9.6 %
		Y	4.70	66.71	16.22		150.0	
		Z	4.73	66.82	16.32		150.0	
10423-AAA	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	X	5.08	67.34	16.69	0.00	150.0	± 9.6 %
		Y	4.88	67.03	16.34		150.0	
		Z	4.92	67.16	16.44		150.0	
10424-AAA	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	X	4.99	67.28	16.65	0.00	150.0	± 9.6 %
		Y	4.79	66.98	16.31		150.0	
		Z	4.83	67.11	16.41		150.0	
10425-AAA	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	X	5.54	67.54	16.75	0.00	150.0	± 9.6 %
		Y	5.39	67.30	16.48		150.0	
		Z	5.41	67.39	16.55		150.0	
10426-AAA	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	X	5.55	67.59	16.77	0.00	150.0	± 9.6 %
		Y	5.39	67.31	16.48		150.0	
		Z	5.41	67.40	16.55		150.0	

10427-AAA	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	X	5.58	67.62	16.78	0.00	150.0	± 9.6 %
		Y	5.40	67.30	16.47		150.0	
		Z	5.43	67.40	16.55		150.0	
10430-AAA	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	X	4.51	70.67	18.61	0.00	150.0	± 9.6 %
		Y	4.35	70.93	18.33		150.0	
		Z	4.34	70.69	18.27		150.0	
10431-AAA	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	X	4.50	67.49	16.66	0.00	150.0	± 9.6 %
		Y	4.26	67.13	16.19		150.0	
		Z	4.31	67.29	16.34		150.0	
10432-AAA	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	X	4.77	67.35	16.65	0.00	150.0	± 9.6 %
		Y	4.56	67.02	16.26		150.0	
		Z	4.60	67.16	16.37		150.0	
10433-AAA	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	X	5.01	67.34	16.68	0.00	150.0	± 9.6 %
		Y	4.81	67.02	16.33		150.0	
		Z	4.85	67.15	16.43		150.0	
10434-AAA	W-CDMA (BS Test Model 1, 64 DPCH)	X	4.63	71.51	18.68	0.00	150.0	± 9.6 %
		Y	4.47	71.85	18.35		150.0	
		Z	4.45	71.57	18.30		150.0	
10435-AAB	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	118.58	29.50	3.23	80.0	± 9.6 %
		Y	10.62	88.24	20.66		80.0	
		Z	52.09	109.17	26.64		80.0	
10447-AAA	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	X	3.84	67.72	16.35	0.00	150.0	± 9.6 %
		Y	3.56	67.13	15.56		150.0	
		Z	3.63	67.38	15.80		150.0	
10448-AAA	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	X	4.31	67.27	16.53	0.00	150.0	± 9.6 %
		Y	4.10	66.91	16.05		150.0	
		Z	4.14	67.07	16.20		150.0	
10449-AAA	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	X	4.55	67.19	16.56	0.00	150.0	± 9.6 %
		Y	4.37	66.85	16.16		150.0	
		Z	4.41	66.99	16.28		150.0	
10450-AAA	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	X	4.73	67.10	16.55	0.00	150.0	± 9.6 %
		Y	4.56	66.78	16.18		150.0	
		Z	4.59	66.92	16.29		150.0	
10451-AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	X	3.80	68.12	16.19	0.00	150.0	± 9.6 %
		Y	3.46	67.33	15.21		150.0	
		Z	3.54	67.65	15.51		150.0	
10456-AAA	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc duty cycle)	X	6.39	68.17	16.91	0.00	150.0	± 9.6 %
		Y	6.25	67.86	16.64		150.0	
		Z	6.26	67.96	16.70		150.0	
10457-AAA	UMTS-FDD (DC-HSDPA)	X	3.89	65.49	16.28	0.00	150.0	± 9.6 %
		Y	3.82	65.24	15.89		150.0	
		Z	3.83	65.35	16.00		150.0	
10458-AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	X	3.59	67.26	15.68	0.00	150.0	± 9.6 %
		Y	3.28	66.65	14.64		150.0	
		Z	3.37	66.99	14.99		150.0	
10459-AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	X	4.71	65.35	16.24	0.00	150.0	± 9.6 %
		Y	4.47	65.37	15.75		150.0	
		Z	4.44	65.11	15.75		150.0	

10460-AAA	UMTS-FDD (WCDMA, AMR)	X	1.26	74.53	19.97	0.00	150.0	± 9.6 %
		Y	0.88	67.24	15.69		150.0	
		Z	0.97	69.39	16.99		150.0	
10461-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	121.73	31.04	3.29	80.0	± 9.6 %
		Y	4.97	80.86	19.26		80.0	
		Z	34.94	106.88	26.96		80.0	
10462-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	11.20	83.22	17.90	3.23	80.0	± 9.6 %
		Y	1.32	61.99	9.12		80.0	
		Z	2.11	66.44	11.46		80.0	
10463-AAA	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.22	72.05	13.84	3.23	80.0	± 9.6 %
		Y	1.09	60.04	7.72		80.0	
		Z	1.49	62.65	9.35		80.0	
10464-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	119.48	29.85	3.23	80.0	± 9.6 %
		Y	3.78	76.87	17.38		80.0	
		Z	23.51	100.06	24.58		80.0	
10465-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	7.49	78.87	16.51	3.23	80.0	± 9.6 %
		Y	1.25	61.51	8.83		80.0	
		Z	1.89	65.31	10.92		80.0	
10466-AAA	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.48	70.04	13.05	3.23	80.0	± 9.6 %
		Y	1.09	60.00	7.65		80.0	
		Z	1.41	62.10	9.04		80.0	
10467-AAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	119.69	29.94	3.23	80.0	± 9.6 %
		Y	3.99	77.62	17.66		80.0	
		Z	27.74	102.28	25.18		80.0	
10468-AAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	8.17	79.83	16.82	3.23	80.0	± 9.6 %
		Y	1.27	61.62	8.90		80.0	
		Z	1.93	65.57	11.05		80.0	
10469-AAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.49	70.10	13.07	3.23	80.0	± 9.6 %
		Y	1.09	60.00	7.65		80.0	
		Z	1.41	62.11	9.04		80.0	
10470-AAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	119.72	29.94	3.23	80.0	± 9.6 %
		Y	3.98	77.60	17.65		80.0	
		Z	27.93	102.38	25.20		80.0	
10471-AAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	8.09	79.71	16.77	3.23	80.0	± 9.6 %
		Y	1.26	61.59	8.87		80.0	
		Z	1.92	65.51	11.01		80.0	
10472-AAB	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.47	70.02	13.03	3.23	80.0	± 9.6 %
		Y	1.09	60.00	7.64		80.0	
		Z	1.40	62.07	9.01		80.0	
10473-AAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	100.00	119.68	29.93	3.23	80.0	± 9.6 %
		Y	3.97	77.56	17.63		80.0	
		Z	27.81	102.30	25.17		80.0	
10474-AAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	8.01	79.61	16.74	3.23	80.0	± 9.6 %
		Y	1.26	61.57	8.86		80.0	
		Z	1.91	65.48	10.99		80.0	
10475-AAB	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.45	69.98	13.01	3.23	80.0	± 9.6 %
		Y	1.08	60.00	7.64		80.0	
		Z	1.40	62.06	9.01		80.0	

10477-AAB	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	7.48	78.85	16.48	3.23	80.0	± 9.6 %
		Y	1.24	61.46	8.79		80.0	
		Z	1.87	65.25	10.87		80.0	
10478-AAB	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.42	69.86	12.96	3.23	80.0	± 9.6 %
		Y	1.09	60.00	7.63		80.0	
		Z	1.39	62.02	8.98		80.0	
10479-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	7.59	84.42	22.98	3.23	80.0	± 9.6 %
		Y	4.22	75.51	18.76		80.0	
		Z	5.90	80.69	21.01		80.0	
10480-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	8.54	81.81	20.60	3.23	80.0	± 9.6 %
		Y	4.05	71.64	15.69		80.0	
		Z	5.89	76.68	17.96		80.0	
10481-AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	7.61	79.58	19.53	3.23	80.0	± 9.6 %
		Y	3.52	69.48	14.51		80.0	
		Z	5.00	74.03	16.66		80.0	
10482-AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.41	79.04	20.27	2.23	80.0	± 9.6 %
		Y	2.51	68.17	14.90		80.0	
		Z	3.40	72.41	17.03		80.0	
10483-AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	6.20	77.32	19.28	2.23	80.0	± 9.6 %
		Y	3.30	68.52	14.58		80.0	
		Z	4.33	72.24	16.49		80.0	
10484-AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.93	76.43	18.96	2.23	80.0	± 9.6 %
		Y	3.23	68.02	14.37		80.0	
		Z	4.16	71.49	16.20		80.0	
10485-AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.42	79.09	20.91	2.23	80.0	± 9.6 %
		Y	2.90	69.81	16.44		80.0	
		Z	3.74	73.66	18.32		80.0	
10486-AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.42	72.79	18.25	2.23	80.0	± 9.6 %
		Y	3.00	67.35	15.00		80.0	
		Z	3.53	69.71	16.34		80.0	
10487-AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.39	72.31	18.06	2.23	80.0	± 9.6 %
		Y	3.03	67.12	14.90		80.0	
		Z	3.53	69.36	16.19		80.0	
10488-AAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.31	77.01	20.51	2.23	80.0	± 9.6 %
		Y	3.36	70.13	17.22		80.0	
		Z	4.04	73.06	18.65		80.0	
10489-AAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.42	71.43	18.51	2.23	80.0	± 9.6 %
		Y	3.43	67.78	16.33		80.0	
		Z	3.81	69.43	17.28		80.0	
10490-AAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.48	71.06	18.39	2.23	80.0	± 9.6 %
		Y	3.54	67.71	16.33		80.0	
		Z	3.90	69.25	17.23		80.0	
10491-AAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.13	74.32	19.54	2.23	80.0	± 9.6 %
		Y	3.70	69.41	17.08		80.0	
		Z	4.22	71.55	18.18		80.0	
10492-AAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.65	70.26	18.22	2.23	80.0	± 9.6 %
		Y	3.84	67.49	16.53		80.0	
		Z	4.15	68.76	17.28		80.0	

10493-AAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.71	70.04	18.15	2.23	80.0	± 9.6 %
		Y	3.92	67.42	16.52		80.0	
		Z	4.22	68.63	17.24		80.0	
10494-AAB	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.86	76.59	20.21	2.23	80.0	± 9.6 %
		Y	3.92	70.52	17.38		80.0	
		Z	4.59	73.07	18.61		80.0	
10495-AAB	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.75	70.90	18.47	2.23	80.0	± 9.6 %
		Y	3.87	67.82	16.69		80.0	
		Z	4.19	69.19	17.47		80.0	
10496-AAB	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.78	70.44	18.32	2.23	80.0	± 9.6 %
		Y	3.96	67.65	16.67		80.0	
		Z	4.27	68.90	17.39		80.0	
10497-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	4.46	76.33	18.65	2.23	80.0	± 9.6 %
		Y	1.91	64.92	12.59		80.0	
		Z	2.57	68.71	14.69		80.0	
10498-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	3.37	69.46	15.07	2.23	80.0	± 9.6 %
		Y	1.74	61.64	10.05		80.0	
		Z	2.10	63.77	11.50		80.0	
10499-AAA	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	3.30	68.85	14.69	2.23	80.0	± 9.6 %
		Y	1.71	61.27	9.73		80.0	
		Z	2.05	63.26	11.12		80.0	
10500-AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.15	77.48	20.50	2.23	80.0	± 9.6 %
		Y	3.06	69.76	16.70		80.0	
		Z	3.79	73.07	18.35		80.0	
10501-AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.40	72.07	18.28	2.23	80.0	± 9.6 %
		Y	3.20	67.58	15.54		80.0	
		Z	3.66	69.60	16.70		80.0	
10502-AAA	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.44	71.80	18.14	2.23	80.0	± 9.6 %
		Y	3.26	67.50	15.47		80.0	
		Z	3.71	69.46	16.60		80.0	
10503-AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.24	76.79	20.41	2.23	80.0	± 9.6 %
		Y	3.33	69.97	17.13		80.0	
		Z	3.99	72.87	18.57		80.0	
10504-AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.40	71.34	18.46	2.23	80.0	± 9.6 %
		Y	3.42	67.69	16.28		80.0	
		Z	3.79	69.35	17.23		80.0	
10505-AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.45	70.97	18.34	2.23	80.0	± 9.6 %
		Y	3.52	67.62	16.28		80.0	
		Z	3.88	69.16	17.18		80.0	
10506-AAB	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.80	76.43	20.13	2.23	80.0	± 9.6 %
		Y	3.89	70.40	17.32		80.0	
		Z	4.56	72.93	18.55		80.0	
10507-AAB	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	4.73	70.84	18.43	2.23	80.0	± 9.6 %
		Y	3.85	67.77	16.65		80.0	
		Z	4.18	69.13	17.43		80.0	

10508-AAB	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	4.77	70.37	18.28	2.23	80.0	± 9.6 %
		Y	3.95	67.59	16.63		80.0	
		Z	4.25	68.84	17.35		80.0	
10509-AAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	5.74	74.10	19.24	2.23	80.0	± 9.6 %
		Y	4.31	69.75	17.10		80.0	
		Z	4.83	71.63	18.05		80.0	
10510-AAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.17	70.32	18.25	2.23	80.0	± 9.6 %
		Y	4.37	67.77	16.79		80.0	
		Z	4.67	68.89	17.43		80.0	
10511-AAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.18	69.92	18.14	2.23	80.0	± 9.6 %
		Y	4.43	67.59	16.76		80.0	
		Z	4.71	68.63	17.37		80.0	
10512-AAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Subframe=2,3,4,7,8,9)	X	6.38	76.54	20.00	2.23	80.0	± 9.6 %
		Y	4.40	70.84	17.39		80.0	
		Z	5.09	73.22	18.52		80.0	
10513-AAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Subframe=2,3,4,7,8,9)	X	5.12	70.86	18.46	2.23	80.0	± 9.6 %
		Y	4.24	67.96	16.84		80.0	
		Z	4.56	69.21	17.54		80.0	
10514-AAB	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Subframe=2,3,4,7,8,9)	X	5.06	70.23	18.27	2.23	80.0	± 9.6 %
		Y	4.28	67.64	16.77		80.0	
		Z	4.57	68.77	17.42		80.0	
10515-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc duty cycle)	X	1.03	64.53	16.11	0.00	150.0	± 9.6 %
		Y	0.98	62.93	14.53		150.0	
		Z	0.99	63.51	15.05		150.0	
10516-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc duty cycle)	X	1.49	88.61	26.07	0.00	150.0	± 9.6 %
		Y	0.56	68.22	16.27		150.0	
		Z	0.69	72.69	18.76		150.0	
10517-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc duty cycle)	X	0.95	68.20	17.75	0.00	150.0	± 9.6 %
		Y	0.83	64.56	15.02		150.0	
		Z	0.86	65.73	15.88		150.0	
10518-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 99pc duty cycle)	X	4.73	66.94	16.51	0.00	150.0	± 9.6 %
		Y	4.57	66.67	16.16		150.0	
		Z	4.60	66.79	16.27		150.0	
10519-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 99pc duty cycle)	X	4.96	67.23	16.65	0.00	150.0	± 9.6 %
		Y	4.76	66.92	16.28		150.0	
		Z	4.80	67.04	16.39		150.0	
10520-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 99pc duty cycle)	X	4.81	67.24	16.59	0.00	150.0	± 9.6 %
		Y	4.61	66.88	16.21		150.0	
		Z	4.65	67.02	16.32		150.0	
10521-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 99pc duty cycle)	X	4.74	67.26	16.59	0.00	150.0	± 9.6 %
		Y	4.54	66.87	16.19		150.0	
		Z	4.58	67.02	16.31		150.0	
10522-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 99pc duty cycle)	X	4.78	67.19	16.60	0.00	150.0	± 9.6 %
		Y	4.60	66.95	16.27		150.0	
		Z	4.64	67.07	16.37		150.0	

10523-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 99pc duty cycle)	X	4.66	67.13	16.48	0.00	150.0	± 9.6 %
		Y	4.48	66.82	16.12		150.0	
		Z	4.51	66.95	16.23		150.0	
10524-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 99pc duty cycle)	X	4.74	67.16	16.60	0.00	150.0	± 9.6 %
		Y	4.54	66.87	16.24		150.0	
		Z	4.58	67.00	16.35		150.0	
10525-AAA	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc duty cycle)	X	4.69	66.20	16.18	0.00	150.0	± 9.6 %
		Y	4.52	65.92	15.83		150.0	
		Z	4.56	66.05	15.94		150.0	
10526-AAA	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc duty cycle)	X	4.90	66.62	16.33	0.00	150.0	± 9.6 %
		Y	4.70	66.29	15.97		150.0	
		Z	4.74	66.43	16.08		150.0	
10527-AAA	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc duty cycle)	X	4.82	66.61	16.30	0.00	150.0	± 9.6 %
		Y	4.62	66.25	15.92		150.0	
		Z	4.66	66.40	16.03		150.0	
10528-AAA	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc duty cycle)	X	4.84	66.63	16.33	0.00	150.0	± 9.6 %
		Y	4.63	66.27	15.95		150.0	
		Z	4.67	66.42	16.06		150.0	
10529-AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc duty cycle)	X	4.84	66.63	16.33	0.00	150.0	± 9.6 %
		Y	4.63	66.27	15.95		150.0	
		Z	4.67	66.42	16.06		150.0	
10531-AAA	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc duty cycle)	X	4.85	66.79	16.36	0.00	150.0	± 9.6 %
		Y	4.63	66.38	15.96		150.0	
		Z	4.67	66.54	16.08		150.0	
10532-AAA	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc duty cycle)	X	4.70	66.68	16.32	0.00	150.0	± 9.6 %
		Y	4.49	66.23	15.90		150.0	
		Z	4.53	66.40	16.02		150.0	
10533-AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc duty cycle)	X	4.85	66.64	16.30	0.00	150.0	± 9.6 %
		Y	4.64	66.31	15.94		150.0	
		Z	4.69	66.46	16.05		150.0	
10534-AAA	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc duty cycle)	X	5.34	66.74	16.34	0.00	150.0	± 9.6 %
		Y	5.16	66.39	16.01		150.0	
		Z	5.19	66.52	16.10		150.0	
10535-AAA	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc duty cycle)	X	5.41	66.89	16.39	0.00	150.0	± 9.6 %
		Y	5.23	66.56	16.08		150.0	
		Z	5.26	66.67	16.17		150.0	
10536-AAA	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc duty cycle)	X	5.28	66.89	16.39	0.00	150.0	± 9.6 %
		Y	5.10	66.51	16.05		150.0	
		Z	5.13	66.65	16.14		150.0	
10537-AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc duty cycle)	X	5.34	66.85	16.37	0.00	150.0	± 9.6 %
		Y	5.16	66.48	16.03		150.0	
		Z	5.19	66.62	16.12		150.0	
10538-AAA	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc duty cycle)	X	5.46	66.91	16.43	0.00	150.0	± 9.6 %
		Y	5.25	66.51	16.09		150.0	
		Z	5.29	66.65	16.18		150.0	
10540-AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc duty cycle)	X	5.35	66.86	16.42	0.00	150.0	± 9.6 %
		Y	5.18	66.52	16.10		150.0	
		Z	5.21	66.64	16.19		150.0	

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10541-AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc duty cycle)	X	5.34	66.80	16.39	0.00	150.0	± 9.6 %
		Y	5.15	66.39	16.04		150.0	
		Z	5.18	66.53	16.13		150.0	
10542-AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc duty cycle)	X	5.48	66.79	16.40	0.00	150.0	± 9.6 %
		Y	5.31	66.46	16.08		150.0	
		Z	5.34	66.58	16.17		150.0	
10543-AAA	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc duty cycle)	X	5.58	66.81	16.42	0.00	150.0	± 9.6 %
		Y	5.38	66.50	16.12		150.0	
		Z	5.42	66.61	16.20		150.0	
10544-AAA	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc duty cycle)	X	5.61	66.84	16.31	0.00	150.0	± 9.6 %
		Y	5.47	66.52	16.01		150.0	
		Z	5.49	66.64	16.09		150.0	
10545-AAA	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc duty cycle)	X	5.82	67.22	16.44	0.00	150.0	± 9.6 %
		Y	5.66	66.90	16.15		150.0	
		Z	5.68	67.02	16.23		150.0	
10546-AAA	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc duty cycle)	X	5.71	67.14	16.42	0.00	150.0	± 9.6 %
		Y	5.54	66.73	16.09		150.0	
		Z	5.57	66.87	16.18		150.0	
10547-AAA	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc duty cycle)	X	5.80	67.20	16.44	0.00	150.0	± 9.6 %
		Y	5.61	66.77	16.09		150.0	
		Z	5.64	66.92	16.19		150.0	
10548-AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc duty cycle)	X	6.07	68.17	16.89	0.00	150.0	± 9.6 %
		Y	5.84	67.63	16.49		150.0	
		Z	5.87	67.78	16.59		150.0	
10550-AAA	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc duty cycle)	X	5.73	67.08	16.39	0.00	150.0	± 9.6 %
		Y	5.56	66.73	16.09		150.0	
		Z	5.59	66.86	16.17		150.0	
10551-AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc duty cycle)	X	5.75	67.18	16.41	0.00	150.0	± 9.6 %
		Y	5.57	66.79	16.08		150.0	
		Z	5.60	66.91	16.16		150.0	
10552-AAA	IEEE 802.11ac WiFi (80MHz, MCS8, 99pc duty cycle)	X	5.65	66.95	16.31	0.00	150.0	± 9.6 %
		Y	5.48	66.59	15.99		150.0	
		Z	5.51	66.71	16.08		150.0	
10553-AAA	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc duty cycle)	X	5.74	66.98	16.35	0.00	150.0	± 9.6 %
		Y	5.57	66.63	16.04		150.0	
		Z	5.60	66.76	16.13		150.0	
10554-AAA	IEEE 1602.11ac WiFi (160MHz, MCS0, 99pc duty cycle)	X	6.00	67.21	16.39	0.00	150.0	± 9.6 %
		Y	5.87	66.88	16.10		150.0	
		Z	5.89	67.00	16.18		150.0	
10555-AAA	IEEE 1602.11ac WiFi (160MHz, MCS1, 99pc duty cycle)	X	6.16	67.56	16.54	0.00	150.0	± 9.6 %
		Y	6.00	67.17	16.22		150.0	
		Z	6.02	67.29	16.30		150.0	
10556-AAA	IEEE 1602.11ac WiFi (160MHz, MCS2, 99pc duty cycle)	X	6.17	67.55	16.53	0.00	150.0	± 9.6 %
		Y	6.02	67.21	16.24		150.0	
		Z	6.04	67.33	16.31		150.0	
10557-AAA	IEEE 1602.11ac WiFi (160MHz, MCS3, 99pc duty cycle)	X	6.16	67.54	16.54	0.00	150.0	± 9.6 %
		Y	5.99	67.13	16.22		150.0	
		Z	6.02	67.26	16.30		150.0	

10558-AAA	IEEE 1602.11ac WiFi (160MHz, MCS4, 99pc duty cycle)	X	6.22	67.72	16.65	0.00	150.0	± 9.6 %
		Y	6.04	67.29	16.31		150.0	
		Z	6.06	67.43	16.40		150.0	
10560-AAA	IEEE 1602.11ac WiFi (160MHz, MCS6, 99pc duty cycle)	X	6.22	67.56	16.61	0.00	150.0	± 9.6 %
		Y	6.04	67.15	16.28		150.0	
		Z	6.07	67.29	16.37		150.0	
10561-AAA	IEEE 1602.11ac WiFi (160MHz, MCS7, 99pc duty cycle)	X	6.12	67.51	16.62	0.00	150.0	± 9.6 %
		Y	5.95	67.11	16.29		150.0	
		Z	5.98	67.24	16.38		150.0	
10562-AAA	IEEE 1602.11ac WiFi (160MHz, MCS8, 99pc duty cycle)	X	6.28	67.98	16.86	0.00	150.0	± 9.6 %
		Y	6.08	67.48	16.48		150.0	
		Z	6.11	67.64	16.58		150.0	
10563-AAA	IEEE 1602.11ac WiFi (160MHz, MCS9, 99pc duty cycle)	X	6.55	68.33	16.97	0.00	150.0	± 9.6 %
		Y	6.34	67.85	16.62		150.0	
		Z	6.41	68.12	16.77		150.0	
10564-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc duty cycle)	X	5.06	67.01	16.65	0.46	150.0	± 9.6 %
		Y	4.89	66.73	16.30		150.0	
		Z	4.92	66.87	16.41		150.0	
10565-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc duty cycle)	X	5.33	67.50	16.98	0.46	150.0	± 9.6 %
		Y	5.12	67.20	16.63		150.0	
		Z	5.16	67.32	16.73		150.0	
10566-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc duty cycle)	X	5.16	67.38	16.81	0.46	150.0	± 9.6 %
		Y	4.96	67.03	16.44		150.0	
		Z	5.00	67.18	16.55		150.0	
10567-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc duty cycle)	X	5.19	67.78	17.15	0.46	150.0	± 9.6 %
		Y	4.99	67.45	16.81		150.0	
		Z	5.03	67.57	16.90		150.0	
10568-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc duty cycle)	X	5.06	67.08	16.55	0.46	150.0	± 9.6 %
		Y	4.86	66.77	16.18		150.0	
		Z	4.91	66.94	16.32		150.0	
10569-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc duty cycle)	X	5.12	67.78	17.17	0.46	150.0	± 9.6 %
		Y	4.94	67.51	16.85		150.0	
		Z	4.97	67.62	16.94		150.0	
10570-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc duty cycle)	X	5.17	67.60	17.10	0.46	150.0	± 9.6 %
		Y	4.98	67.37	16.79		150.0	
		Z	5.01	67.47	16.88		150.0	
10571-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc duty cycle)	X	1.32	66.53	17.12	0.46	130.0	± 9.6 %
		Y	1.19	64.08	15.14		130.0	
		Z	1.23	65.02	15.86		130.0	
10572-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc duty cycle)	X	1.35	67.31	17.56	0.46	130.0	± 9.6 %
		Y	1.20	64.60	15.46		130.0	
		Z	1.25	65.62	16.22		130.0	
10573-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc duty cycle)	X	100.00	151.50	40.98	0.46	130.0	± 9.6 %
		Y	1.37	77.31	19.73		130.0	
		Z	2.95	90.34	24.71		130.0	
10574-AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc duty cycle)	X	1.80	76.73	21.97	0.46	130.0	± 9.6 %
		Y	1.28	69.53	17.96		130.0	
		Z	1.42	71.79	19.26		130.0	

10575-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc duty cycle)	X	4.84	66.77	16.68	0.46	130.0	± 9.6 %
		Y	4.66	66.45	16.27		130.0	
		Z	4.70	66.62	16.42		130.0	
10576-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc duty cycle)	X	4.87	66.93	16.75	0.46	130.0	± 9.6 %
		Y	4.69	66.62	16.34		130.0	
		Z	4.73	66.78	16.48		130.0	
10577-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc duty cycle)	X	5.11	67.28	16.93	0.46	130.0	± 9.6 %
		Y	4.90	66.93	16.52		130.0	
		Z	4.94	67.09	16.66		130.0	
10578-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc duty cycle)	X	5.01	67.46	17.03	0.46	130.0	± 9.6 %
		Y	4.79	67.09	16.62		130.0	
		Z	4.84	67.25	16.76		130.0	
10579-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc duty cycle)	X	4.78	66.84	16.41	0.46	130.0	± 9.6 %
		Y	4.55	66.33	15.90		130.0	
		Z	4.61	66.57	16.09		130.0	
10580-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc duty cycle)	X	4.82	66.78	16.39	0.46	130.0	± 9.6 %
		Y	4.60	66.36	15.92		130.0	
		Z	4.66	66.58	16.11		130.0	
10581-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc duty cycle)	X	4.91	67.54	16.99	0.46	130.0	± 9.6 %
		Y	4.69	67.11	16.55		130.0	
		Z	4.74	67.28	16.69		130.0	
10582-AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc duty cycle)	X	4.73	66.58	16.20	0.46	130.0	± 9.6 %
		Y	4.50	66.08	15.68		130.0	
		Z	4.56	66.33	15.89		130.0	
10583-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc duty cycle)	X	4.84	66.77	16.68	0.46	130.0	± 9.6 %
		Y	4.66	66.45	16.27		130.0	
		Z	4.70	66.62	16.42		130.0	
10584-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc duty cycle)	X	4.87	66.93	16.75	0.46	130.0	± 9.6 %
		Y	4.69	66.62	16.34		130.0	
		Z	4.73	66.78	16.48		130.0	
10585-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps, 90pc duty cycle)	X	5.11	67.28	16.93	0.46	130.0	± 9.6 %
		Y	4.90	66.93	16.52		130.0	
		Z	4.94	67.09	16.66		130.0	
10586-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc duty cycle)	X	5.01	67.46	17.03	0.46	130.0	± 9.6 %
		Y	4.79	67.09	16.62		130.0	
		Z	4.84	67.25	16.76		130.0	
10587-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc duty cycle)	X	4.78	66.84	16.41	0.46	130.0	± 9.6 %
		Y	4.55	66.33	15.90		130.0	
		Z	4.61	66.57	16.09		130.0	
10588-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc duty cycle)	X	4.82	66.78	16.39	0.46	130.0	± 9.6 %
		Y	4.60	66.36	15.92		130.0	
		Z	4.66	66.58	16.11		130.0	
10589-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc duty cycle)	X	4.91	67.54	16.99	0.46	130.0	± 9.6 %
		Y	4.69	67.11	16.55		130.0	
		Z	4.74	67.28	16.69		130.0	
10590-AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc duty cycle)	X	4.73	66.58	16.20	0.46	130.0	± 9.6 %
		Y	4.50	66.08	15.68		130.0	
		Z	4.56	66.33	15.89		130.0	

10591-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc duty cycle)	X	4.99	66.82	16.77	0.46	130.0	± 9.6 %
		Y	4.82	66.53	16.38		130.0	
		Z	4.85	66.68	16.52		130.0	
10592-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc duty cycle)	X	5.17	67.17	16.89	0.46	130.0	± 9.6 %
		Y	4.97	66.86	16.51		130.0	
		Z	5.02	67.02	16.64		130.0	
10593-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc duty cycle)	X	5.10	67.14	16.80	0.46	130.0	± 9.6 %
		Y	4.89	66.77	16.39		130.0	
		Z	4.94	66.94	16.54		130.0	
10594-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc duty cycle)	X	5.15	67.28	16.94	0.46	130.0	± 9.6 %
		Y	4.95	66.94	16.55		130.0	
		Z	4.99	67.10	16.68		130.0	
10595-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc duty cycle)	X	5.13	67.26	16.85	0.46	130.0	± 9.6 %
		Y	4.91	66.88	16.44		130.0	
		Z	4.96	67.05	16.58		130.0	
10596-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc duty cycle)	X	5.07	67.25	16.85	0.46	130.0	± 9.6 %
		Y	4.85	66.87	16.43		130.0	
		Z	4.90	67.05	16.58		130.0	
10597-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc duty cycle)	X	5.02	67.20	16.77	0.46	130.0	± 9.6 %
		Y	4.80	66.78	16.32		130.0	
		Z	4.85	66.97	16.48		130.0	
10598-AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc duty cycle)	X	5.00	67.47	17.04	0.46	130.0	± 9.6 %
		Y	4.78	67.03	16.59		130.0	
		Z	4.83	67.21	16.74		130.0	
10599-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc duty cycle)	X	5.65	67.40	16.93	0.46	130.0	± 9.6 %
		Y	5.48	67.08	16.59		130.0	
		Z	5.51	67.21	16.70		130.0	
10600-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc duty cycle)	X	5.86	68.03	17.21	0.46	130.0	± 9.6 %
		Y	5.60	67.45	16.74		130.0	
		Z	5.65	67.62	16.88		130.0	
10601-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc duty cycle)	X	5.71	67.66	17.04	0.46	130.0	± 9.6 %
		Y	5.50	67.23	16.65		130.0	
		Z	5.54	67.38	16.77		130.0	
10602-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc duty cycle)	X	5.81	67.68	16.97	0.46	130.0	± 9.6 %
		Y	5.58	67.23	16.57		130.0	
		Z	5.62	67.37	16.68		130.0	
10603-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc duty cycle)	X	5.93	68.08	17.30	0.46	130.0	± 9.6 %
		Y	5.68	67.57	16.87		130.0	
		Z	5.72	67.72	16.99		130.0	
10604-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc duty cycle)	X	5.66	67.40	16.95	0.46	130.0	± 9.6 %
		Y	5.48	67.04	16.60		130.0	
		Z	5.51	67.17	16.70		130.0	
10605-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc duty cycle)	X	5.76	67.66	17.08	0.46	130.0	± 9.6 %
		Y	5.58	67.33	16.74		130.0	
		Z	5.62	67.46	16.85		130.0	
10606-AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc duty cycle)	X	5.54	67.17	16.71	0.46	130.0	± 9.6 %
		Y	5.35	66.74	16.30		130.0	
		Z	5.40	66.95	16.46		130.0	

10607-AAA	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc duty cycle)	X	4.82	66.14	16.39	0.46	130.0	± 9.6 %
		Y	4.65	65.82	15.99		130.0	
		Z	4.69	65.99	16.14		130.0	
10608-AAA	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc duty cycle)	X	5.05	66.58	16.55	0.46	130.0	± 9.6 %
		Y	4.83	66.23	16.16		130.0	
		Z	4.89	66.40	16.30		130.0	
10609-AAA	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc duty cycle)	X	4.94	66.47	16.43	0.46	130.0	± 9.6 %
		Y	4.72	66.07	15.99		130.0	
		Z	4.77	66.26	16.15		130.0	
10610-AAA	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc duty cycle)	X	4.99	66.63	16.58	0.46	130.0	± 9.6 %
		Y	4.77	66.23	16.16		130.0	
		Z	4.83	66.42	16.31		130.0	
10611-AAA	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc duty cycle)	X	4.92	66.47	16.45	0.46	130.0	± 9.6 %
		Y	4.69	66.03	16.00		130.0	
		Z	4.74	66.23	16.16		130.0	
10612-AAA	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc duty cycle)	X	4.93	66.62	16.48	0.46	130.0	± 9.6 %
		Y	4.70	66.17	16.03		130.0	
		Z	4.76	66.38	16.20		130.0	
10613-AAA	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc duty cycle)	X	4.95	66.55	16.39	0.46	130.0	± 9.6 %
		Y	4.70	66.06	15.92		130.0	
		Z	4.76	66.29	16.10		130.0	
10614-AAA	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc duty cycle)	X	4.88	66.74	16.63	0.46	130.0	± 9.6 %
		Y	4.65	66.26	16.16		130.0	
		Z	4.70	66.46	16.32		130.0	
10615-AAA	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc duty cycle)	X	4.91	66.27	16.22	0.46	130.0	± 9.6 %
		Y	4.69	65.84	15.76		130.0	
		Z	4.74	66.06	15.94		130.0	
10616-AAA	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc duty cycle)	X	5.48	66.71	16.57	0.46	130.0	± 9.6 %
		Y	5.29	66.33	16.20		130.0	
		Z	5.33	66.49	16.32		130.0	
10617-AAA	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc duty cycle)	X	5.54	66.83	16.59	0.46	130.0	± 9.6 %
		Y	5.36	66.48	16.24		130.0	
		Z	5.39	66.62	16.36		130.0	
10618-AAA	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc duty cycle)	X	5.44	66.90	16.65	0.46	130.0	± 9.6 %
		Y	5.24	66.50	16.27		130.0	
		Z	5.28	66.66	16.40		130.0	
10619-AAA	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc duty cycle)	X	5.46	66.71	16.49	0.46	130.0	± 9.6 %
		Y	5.26	66.31	16.11		130.0	
		Z	5.31	66.49	16.24		130.0	
10620-AAA	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc duty cycle)	X	5.58	66.83	16.60	0.46	130.0	± 9.6 %
		Y	5.36	66.37	16.19		130.0	
		Z	5.41	66.55	16.33		130.0	
10621-AAA	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc duty cycle)	X	5.55	66.89	16.74	0.46	130.0	± 9.6 %
		Y	5.36	66.50	16.38		130.0	
		Z	5.39	66.64	16.49		130.0	
10622-AAA	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc duty cycle)	X	5.54	66.99	16.78	0.46	130.0	± 9.6 %
		Y	5.36	66.64	16.44		130.0	
		Z	5.40	66.77	16.54		130.0	

10623-AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc duty cycle)	X	5.45	66.63	16.49	0.46	130.0	± 9.6 %
		Y	5.24	66.17	16.08		130.0	
		Z	5.28	66.34	16.21		130.0	
10624-AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc duty cycle)	X	5.62	66.73	16.60	0.46	130.0	± 9.6 %
		Y	5.43	66.38	16.25		130.0	
		Z	5.47	66.53	16.36		130.0	
10625-AAA	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc duty cycle)	X	5.99	67.64	17.10	0.46	130.0	± 9.6 %
		Y	5.80	67.33	16.77		130.0	
		Z	5.84	67.50	16.90		130.0	
10626-AAA	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc duty cycle)	X	5.73	66.75	16.50	0.46	130.0	± 9.6 %
		Y	5.58	66.41	16.16		130.0	
		Z	5.61	66.55	16.27		130.0	
10627-AAA	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc duty cycle)	X	5.98	67.25	16.69	0.46	130.0	± 9.6 %
		Y	5.81	66.93	16.38		130.0	
		Z	5.84	67.06	16.49		130.0	
10628-AAA	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc duty cycle)	X	5.80	66.94	16.49	0.46	130.0	± 9.6 %
		Y	5.62	66.49	16.10		130.0	
		Z	5.66	66.67	16.23		130.0	
10629-AAA	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc duty cycle)	X	5.89	67.01	16.51	0.46	130.0	± 9.6 %
		Y	5.70	66.57	16.13		130.0	
		Z	5.75	66.76	16.27		130.0	
10630-AAA	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc duty cycle)	X	6.41	68.69	17.35	0.46	130.0	± 9.6 %
		Y	6.10	67.95	16.82		130.0	
		Z	6.16	68.17	16.98		130.0	
10631-AAA	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc duty cycle)	X	6.31	68.49	17.43	0.46	130.0	± 9.6 %
		Y	6.03	67.85	16.97		130.0	
		Z	6.08	68.04	17.09		130.0	
10632-AAA	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc duty cycle)	X	5.97	67.38	16.89	0.46	130.0	± 9.6 %
		Y	5.79	67.01	16.57		130.0	
		Z	5.82	67.13	16.66		130.0	
10633-AAA	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc duty cycle)	X	5.92	67.23	16.65	0.46	130.0	± 9.6 %
		Y	5.69	66.67	16.22		130.0	
		Z	5.73	66.84	16.35		130.0	
10634-AAA	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc duty cycle)	X	5.89	67.21	16.71	0.46	130.0	± 9.6 %
		Y	5.67	66.71	16.31		130.0	
		Z	5.71	66.87	16.42		130.0	
10635-AAA	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc duty cycle)	X	5.77	66.54	16.12	0.46	130.0	± 9.6 %
		Y	5.55	66.02	15.68		130.0	
		Z	5.60	66.23	15.84		130.0	
10636-AAA	IEEE 1602.11ac WiFi (160MHz, MCS0, 90pc duty cycle)	X	6.13	67.13	16.58	0.46	130.0	± 9.6 %
		Y	5.99	66.78	16.26		130.0	
		Z	6.02	66.92	16.36		130.0	
10637-AAA	IEEE 1602.11ac WiFi (160MHz, MCS1, 90pc duty cycle)	X	6.31	67.54	16.76	0.46	130.0	± 9.6 %
		Y	6.14	67.13	16.42		130.0	
		Z	6.17	67.28	16.52		130.0	
10638-AAA	IEEE 1602.11ac WiFi (160MHz, MCS2, 90pc duty cycle)	X	6.30	67.48	16.71	0.46	130.0	± 9.6 %
		Y	6.14	67.12	16.38		130.0	
		Z	6.17	67.26	16.49		130.0	

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10639-AAA	IEEE 1602.11ac WiFi (160MHz, MCS3, 90pc duty cycle)	X	6.31	67.53	16.79	0.46	130.0	± 9.6 %
		Y	6.13	67.09	16.42		130.0	
		Z	6.16	67.25	16.53		130.0	
10640-AAA	IEEE 1602.11ac WiFi (160MHz, MCS4, 90pc duty cycle)	X	6.34	67.61	16.77	0.46	130.0	± 9.6 %
		Y	6.13	67.09	16.36		130.0	
		Z	6.17	67.27	16.49		130.0	
10641-AAA	IEEE 1602.11ac WiFi (160MHz, MCS5, 90pc duty cycle)	X	6.33	67.33	16.64	0.46	130.0	± 9.6 %
		Y	6.17	66.97	16.32		130.0	
		Z	6.20	67.11	16.42		130.0	
10642-AAA	IEEE 1602.11ac WiFi (160MHz, MCS6, 90pc duty cycle)	X	6.41	67.69	16.99	0.46	130.0	± 9.6 %
		Y	6.22	67.27	16.64		130.0	
		Z	6.26	67.41	16.74		130.0	
10643-AAA	IEEE 1602.11ac WiFi (160MHz, MCS7, 90pc duty cycle)	X	6.23	67.36	16.73	0.46	130.0	± 9.6 %
		Y	6.05	66.92	16.36		130.0	
		Z	6.08	67.08	16.48		130.0	
10644-AAA	IEEE 1602.11ac WiFi (160MHz, MCS8, 90pc duty cycle)	X	6.46	68.05	17.10	0.46	130.0	± 9.6 %
		Y	6.22	67.43	16.63		130.0	
		Z	6.27	67.64	16.78		130.0	
10645-AAA	IEEE 1602.11ac WiFi (160MHz, MCS9, 90pc duty cycle)	X	6.75	68.42	17.22	0.46	130.0	± 9.6 %
		Y	6.59	68.12	16.93		130.0	
		Z	6.68	68.41	17.11		130.0	
10646-AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Subframe=2,7)	X	28.84	113.05	37.19	9.30	60.0	± 9.6 %
		Y	14.72	99.12	32.37		60.0	
		Z	25.12	111.42	36.67		60.0	
10647-AAB	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Subframe=2,7)	X	27.78	112.97	37.30	9.30	60.0	± 9.6 %
		Y	13.61	98.11	32.16		60.0	
		Z	23.35	110.59	36.56		60.0	
10648-AAA	CDMA2000 (1x Advanced)	X	1.03	68.27	14.61	0.00	150.0	± 9.6 %
		Y	0.72	63.60	11.11		150.0	
		Z	0.78	64.70	11.95		150.0	

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

Attachment 2. – Dipole Calibration Data

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Accreditation No.: **SCS 0108**

Client **DT&C (Dymstec)** Certificate No: **D2450V2-920_Sep16**

CALIBRATION CERTIFICATE

Object	D2450V2 - SN:920
Calibration procedure(s)	QA CAL-05.v9 Calibration procedure for dipole validation kits above 700 MHz
Calibration date:	September 23, 2016

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	06-Apr-16 (No. 217-02288/02289)	Apr-17
Power sensor NRP-Z91	SN: 103244	06-Apr-16 (No. 217-02288)	Apr-17
Power sensor NRP-Z91	SN: 103245	06-Apr-16 (No. 217-02289)	Apr-17
Reference 20 dB Attenuator	SN: 5058 (20k)	05-Apr-16 (No. 217-02292)	Apr-17
Type-N mismatch combination	SN: 5047.2 / 06327	05-Apr-16 (No. 217-02295)	Apr-17
Reference Probe EX3DV4	SN: 7349	15-Jun-16 (No. EX3-7349_Jun16)	Jun-17
DAE4	SN: 601	30-Dec-15 (No. DAE4-601_Dec15)	Dec-16

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter EPM-442A	SN: GB37480704	07-Oct-15 (No. 217-02222)	In house check: Oct-16
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (No. 217-02222)	In house check: Oct-16
Power sensor HP 8481A	SN: MY41092317	07-Oct-15 (No. 217-02223)	In house check: Oct-16
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Jun-15)	In house check: Oct-16
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-15)	In house check: Oct-16

	Name	Function	Signature
Calibrated by:	Leif Klysner	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: September 26, 2016

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Engineering AG
Zeughausstrasse 43, 8004 Zurich, Switzerland

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Accreditation No.: SCS 0108

Glossary:

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

Calibration is Performed According to the Following Standards:

a) 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, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
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%.

Measurement Conditions

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

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2450 MHz ± 1 MHz	

Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.9 ± 6 %	1.88 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	250 mW input power	13.5 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**52.5 W/kg ± 17.0 % (k=2)**

SAR averaged over 10 cm³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.28 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**24.7 W/kg ± 16.5 % (k=2)**

Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	52.7	1.95 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	51.6 ± 6 %	2.04 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	250 mW input power	13.1 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**51.0 W/kg ± 17.0 % (k=2)**

SAR averaged over 10 cm³ (10 g) of Body TSL	condition	
SAR measured	250 mW input power	6.12 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**24.1 W/kg ± 16.5 % (k=2)**

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

Impedance, transformed to feed point	55.9 Ω + 2.3 jΩ
Return Loss	- 24.5 dB

Antenna Parameters with Body TSL

Impedance, transformed to feed point	52.3 Ω + 5.0 jΩ
Return Loss	- 25.5 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.154 ns

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

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.
No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	December 19, 2012

DASY5 Validation Report for Head TSL

Date: 23.09.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:920

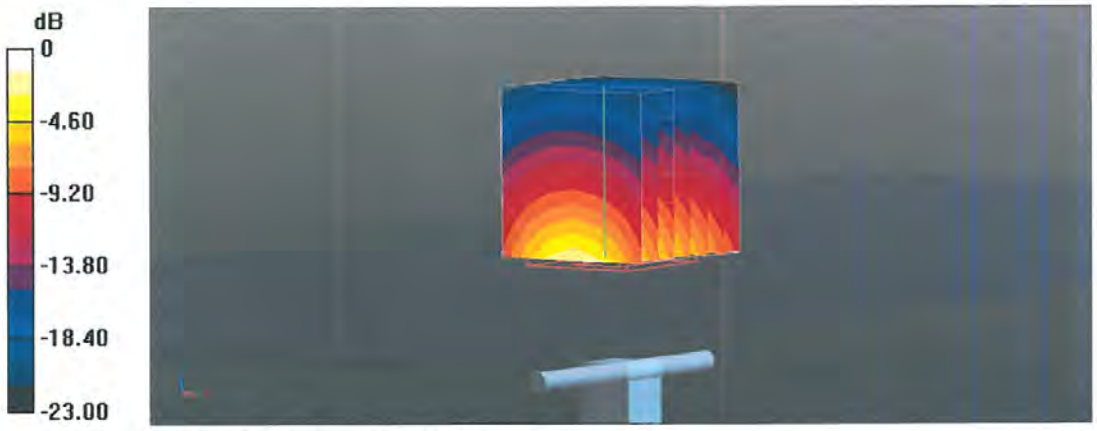
Communication System: UID 0 - CW; Frequency: 2450 MHz
Medium parameters used: f = 2450 MHz; σ = 1.88 S/m; ε_r = 37.9; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN7349; ConvF(7.72, 7.72, 7.72); Calibrated: 15.06.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA; Serial: 1001
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

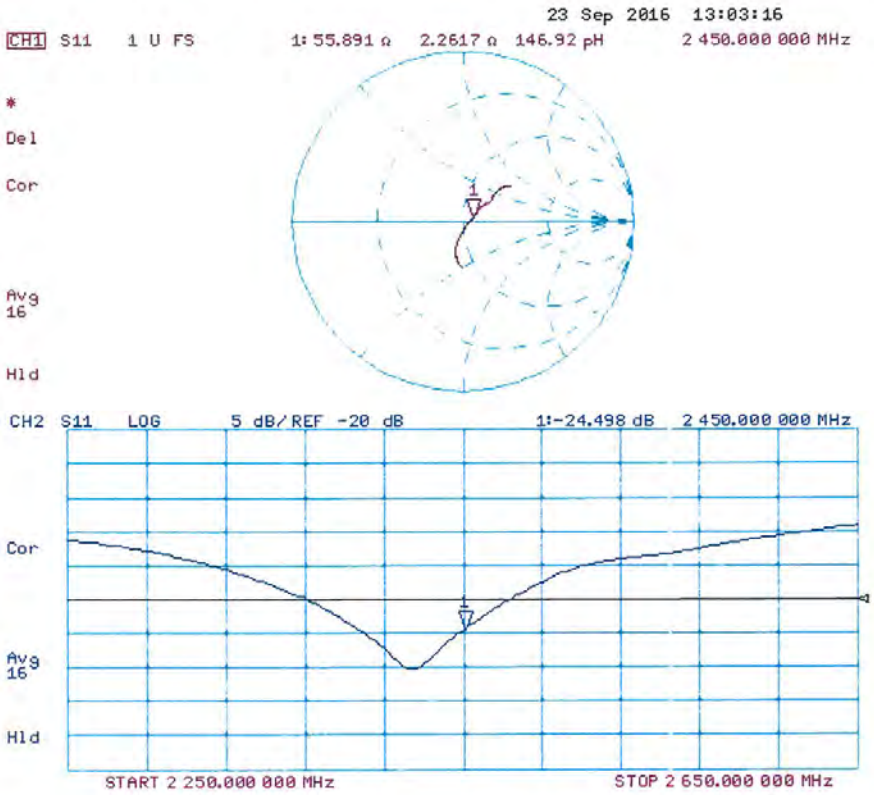
Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 114.0 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 27.5 W/kg
SAR(1 g) = 13.5 W/kg; SAR(10 g) = 6.28 W/kg
Maximum value of SAR (measured) = 22.4 W/kg



0 dB = 22.4 W/kg = 13.50 dBW/kg

Impedance Measurement Plot for Head TSL



DASY5 Validation Report for Body TSL

Date: 23.09.2016

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:920

Communication System: UID 0 - CW; Frequency: 2450 MHz
Medium parameters used: f = 2450 MHz; σ = 2.04 S/m; ε_r = 51.6; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

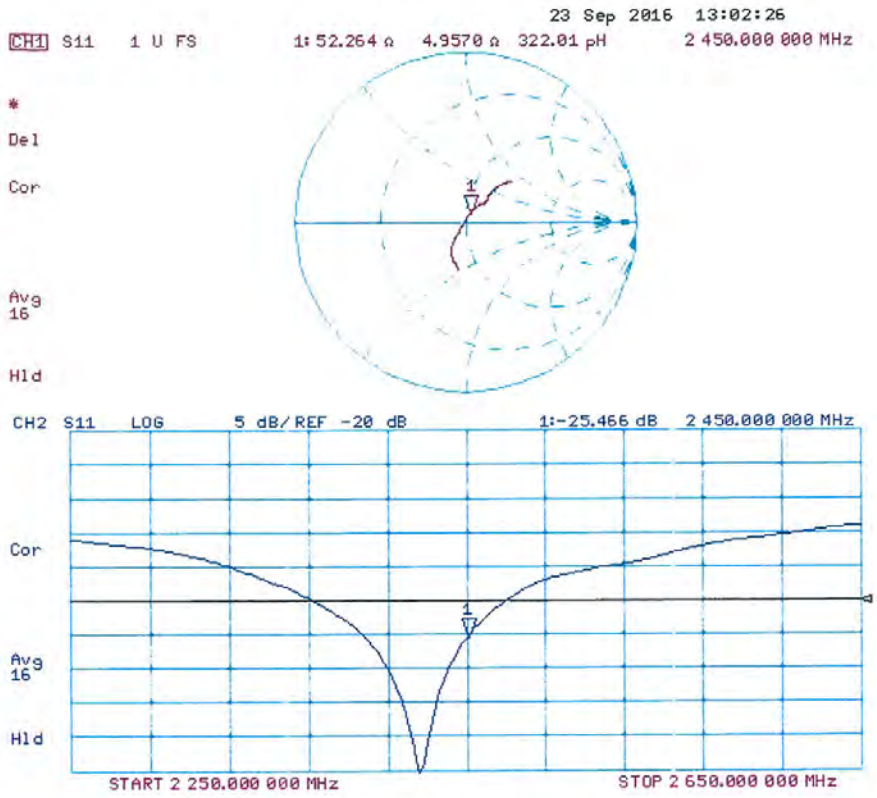
- Probe: EX3DV4 - SN7349; ConvF(7.79, 7.79, 7.79); Calibrated: 15.06.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 30.12.2015
- Phantom: Flat Phantom 5.0 (back); Type: QD000P50AA; Serial: 1002
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

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

Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 106.3 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 26.0 W/kg
SAR(1 g) = 13.1 W/kg; SAR(10 g) = 6.12 W/kg
Maximum value of SAR (measured) = 21.2 W/kg

0 dB = 21.2 W/kg = 13.26 dBW/kg

Impedance Measurement Plot for Body TSL



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Accreditation No.: **SCS 0108**

Client DT&C (Dymstec)

Certificate No: **D5GHzV2-1103_Mar17**

CALIBRATION CERTIFICATE

Object	D5GHzV2 - SN:1103
Calibration procedure(s)	QA CAL-22.v2 Calibration procedure for dipole validation kits between 3-6 GHz
Calibration date:	March 17, 2017

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

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

Calibration Equipment used (M&TE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	06-Apr-16 (No. 217-02288/02289)	Apr-17
Power sensor NRP-Z91	SN: 103244	06-Apr-16 (No. 217-02288)	Apr-17
Power sensor NRP-Z91	SN: 103245	06-Apr-16 (No. 217-02289)	Apr-17
Reference 20 dB Attenuator	SN: 5058 (20k)	05-Apr-16 (No. 217-02292)	Apr-17
Type-N mismatch combination	SN: 5047.2 / 06327	05-Apr-16 (No. 217-02295)	Apr-17
Reference Probe EX3DV4	SN: 3503	31-Dec-16 (No. EX3-3503_Dec16)	Dec-17
DAE4	SN: 601	04-Jan-17 (No. DAE4-601_Jan17)	Jan-18

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Power meter EPM-442A	SN: GB37480704	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
Power sensor HP 8481A	SN: US37292783	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
Power sensor HP 8481A	SN: MY41092317	07-Oct-15 (in house check Oct-16)	In house check: Oct-18
RF generator R&S SMT-06	SN: 100972	15-Jun-15 (in house check Oct-16)	In house check: Oct-18
Network Analyzer HP 8753E	SN: US37390585	18-Oct-01 (in house check Oct-16)	In house check: Oct-17

	Name	Function	Signature
Calibrated by:	Jeton Kastrati	Laboratory Technician	
Approved by:	Katja Pokovic	Technical Manager	

Issued: March 17, 2017

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Accreditation No.: SCS 0108

Glossary:

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

Calibration is Performed According to the Following Standards:

a) 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 62209-2, "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
c) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

d) 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%.

Measurement Conditions

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

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom V5.0	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy = 4.0 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	5200 MHz ± 1 MHz 5300 MHz ± 1 MHz 5500 MHz ± 1 MHz 5600 MHz ± 1 MHz 5800 MHz ± 1 MHz	

Head TSL parameters at 5200 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	36.0	4.66 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	35.0 ± 6 %	4.52 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL at 5200 MHz

SAR averaged over 1 cm^3 (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.00 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**79.5 W/kg ± 19.9 % (k=2)**

SAR averaged over 10 cm^3 (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.29 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**22.7 W/kg ± 19.5 % (k=2)**

Head TSL parameters at 5300 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.9	4.76 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.8 ± 6 %	4.62 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL at 5300 MHz

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.47 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**84.1 W / kg ± 19.9 % (k=2)**

SAR averaged over 10 cm³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.42 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**24.0 W/kg ± 19.5 % (k=2)**

Head TSL parameters at 5500 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.6	4.96 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.5 ± 6 %	4.81 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL at 5500 MHz

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.38 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**83.2 W/kg ± 19.9 % (k=2)**

SAR averaged over 10 cm³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.38 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**23.6 W/kg ± 19.5 % (k=2)**

Head TSL parameters at 5600 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.5	5.07 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.4 ± 6 %	4.92 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL at 5600 MHz

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.52 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**84.5 W/kg ± 19.9 % (k=2)**

SAR averaged over 10 cm³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.43 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**24.1 W/kg ± 19.5 % (k=2)**

Head TSL parameters at 5800 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	35.3	5.27 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	34.1 ± 6 %	5.13 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	----	----

SAR result with Head TSL at 5800 MHz

SAR averaged over 1 cm³ (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	8.18 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**81.1 W/kg ± 19.9 % (k=2)**

SAR averaged over 10 cm³ (10 g) of Head TSL	condition	
SAR measured	100 mW input power	2.33 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	**23.1 W/kg ± 19.5 % (k=2)**

Body TSL parameters at 5200 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	49.0	5.30 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	48.2 ± 6 %	5.45 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL at 5200 MHz

SAR averaged over 1 cm^3 (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.43 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**74.1 W/kg ± 19.9 % (k=2)**

SAR averaged over 10 cm^3 (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.09 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**20.8 W/kg ± 19.5 % (k=2)**

Body TSL parameters at 5300 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.9	5.42 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	48.0 ± 6 %	5.58 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL at 5300 MHz

SAR averaged over 1 cm^3 (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.69 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**76.7 W/kg ± 19.9 % (k=2)**

SAR averaged over 10 cm^3 (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.17 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**21.6 W/kg ± 19.5 % (k=2)**

Body TSL parameters at 5500 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.6	5.65 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	47.7 ± 6 %	5.85 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL at 5500 MHz

SAR averaged over 1 cm^3 (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	8.12 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**81.0 W/kg ± 19.9 % (k=2)**

SAR averaged over 10 cm^3 (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.25 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**22.4 W/kg ± 19.5 % (k=2)**

Body TSL parameters at 5600 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.5	5.77 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	47.5 ± 6 %	5.99 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL at 5600 MHz

SAR averaged over 1 cm^3 (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	8.03 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**80.1 W/kg ± 19.9 % (k=2)**

SAR averaged over 10 cm^3 (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.25 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**22.4 W/kg ± 19.5 % (k=2)**

Body TSL parameters at 5800 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	48.2	6.00 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	47.2 ± 6 %	6.28 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C	----	----

SAR result with Body TSL at 5800 MHz

SAR averaged over 1 cm³ (1 g) of Body TSL	Condition	
SAR measured	100 mW input power	7.77 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**77.5 W/kg ± 19.9 % (k=2)**

SAR averaged over 10 cm³ (10 g) of Body TSL	condition	
SAR measured	100 mW input power	2.16 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	**21.5 W/kg ± 19.5 % (k=2)**

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL at 5200 MHz

Impedance, transformed to feed point	52.4 Ω - 5.8 jΩ
Return Loss	- 24.3 dB

Antenna Parameters with Head TSL at 5300 MHz

Impedance, transformed to feed point	48.8 Ω - 0.2 jΩ
Return Loss	- 38.0 dB

Antenna Parameters with Head TSL at 5500 MHz

Impedance, transformed to feed point	50.2 Ω - 2.8 jΩ
Return Loss	- 30.9 dB

Antenna Parameters with Head TSL at 5600 MHz

Impedance, transformed to feed point	55.1 Ω + 0.9 jΩ
Return Loss	- 26.2 dB

Antenna Parameters with Head TSL at 5800 MHz

Impedance, transformed to feed point	52.2 Ω + 0.9 jΩ
Return Loss	- 32.5 dB

Antenna Parameters with Body TSL at 5200 MHz

Impedance, transformed to feed point	51.7 Ω - 4.9 jΩ
Return Loss	- 25.9 dB

Antenna Parameters with Body TSL at 5300 MHz

Impedance, transformed to feed point	49.8 Ω + 0.6 jΩ
Return Loss	- 43.6 dB

Antenna Parameters with Body TSL at 5500 MHz

Impedance, transformed to feed point	49.8 Ω - 1.6 jΩ
Return Loss	- 35.6 dB

Antenna Parameters with Body TSL at 5600 MHz

Impedance, transformed to feed point	57.5 Ω + 1.5 jΩ
Return Loss	- 22.9 dB

Antenna Parameters with Body TSL at 5800 MHz

Impedance, transformed to feed point	52.5 Ω + 1.5 jΩ
Return Loss	- 30.9 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.209 ns

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

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.
No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
Manufactured on	September 24, 2010

DASY5 Validation Report for Head TSL

Date: 17.03.2017

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1103

Communication System: UID 0 - CW; Frequency: 5200 MHz, Frequency: 5300 MHz, Frequency: 5500 MHz, Frequency: 5600 MHz, Frequency: 5800 MHz
Medium parameters used: f = 5200 MHz; σ = 4.52 S/m; ε_r = 35; ρ = 1000 kg/m^3 ,
Medium parameters used: f = 5300 MHz; σ = 4.62 S/m; ε_r = 34.8; ρ = 1000 kg/m^3 ,
Medium parameters used: f = 5500 MHz; σ = 4.81 S/m; ε_r = 34.5; ρ = 1000 kg/m^3 ,
Medium parameters used: f = 5600 MHz; σ = 4.92 S/m; ε_r = 34.4; ρ = 1000 kg/m^3 ,
Medium parameters used: f = 5800 MHz; σ = 5.13 S/m; ε_r = 34.1; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN3503; ConvF(5.76, 5.76, 5.76); Calibrated: 31.12.2016, ConvF(5.35, 5.35, 5.35); Calibrated: 31.12.2016, ConvF(5.2, 5.2, 5.2); Calibrated: 31.12.2016, ConvF(5.09, 5.09, 5.09); Calibrated: 31.12.2016, ConvF(5.01, 5.01, 5.01); Calibrated: 31.12.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 04.01.2017
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

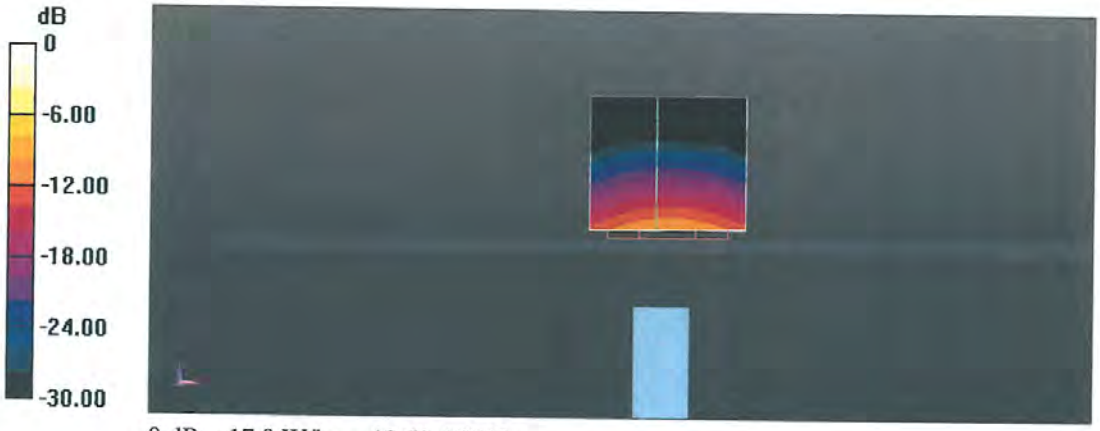
Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5200 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 70.95 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 29.3 W/kg
SAR(1 g) = 8 W/kg; SAR(10 g) = 2.29 W/kg
Maximum value of SAR (measured) = 17.9 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5300 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 72.36 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 30.5 W/kg
SAR(1 g) = 8.47 W/kg; SAR(10 g) = 2.42 W/kg
Maximum value of SAR (measured) = 19.0 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5500 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 70.89 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 32.7 W/kg
SAR(1 g) = 8.38 W/kg; SAR(10 g) = 2.38 W/kg
Maximum value of SAR (measured) = 19.4 W/kg

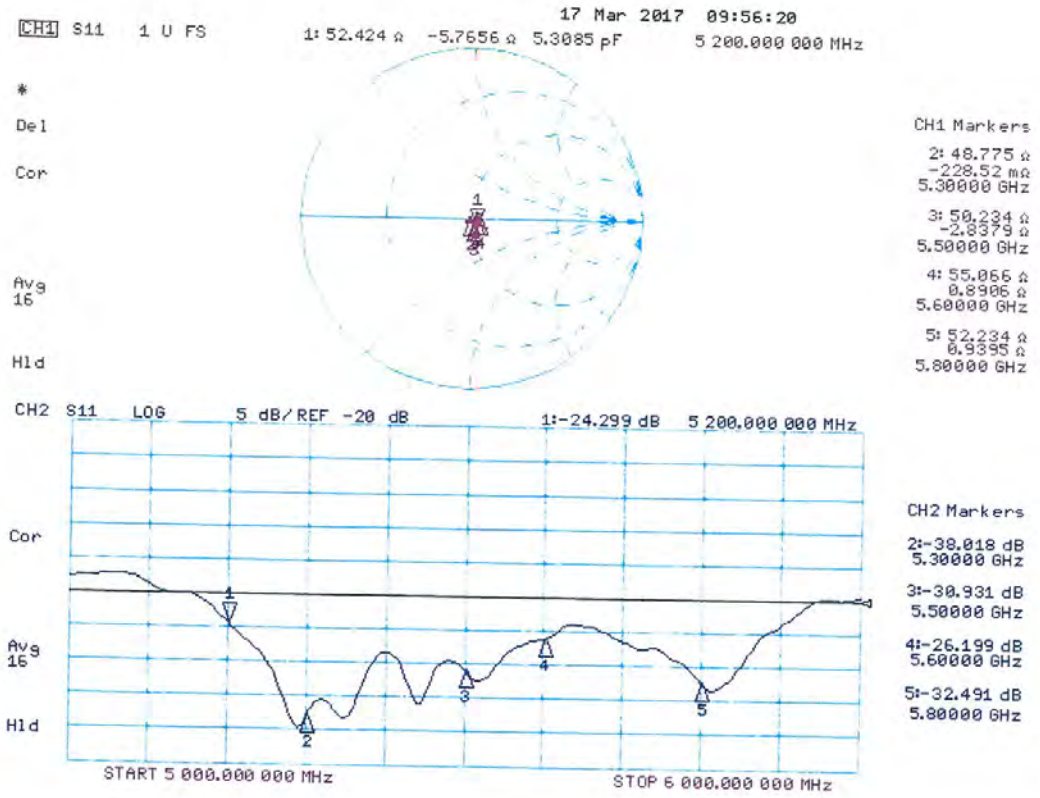
Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 71.46 V/m; Power Drift = -0.06 dB
Peak SAR (extrapolated) = 33.2 W/kg
SAR(1 g) = 8.52 W/kg; SAR(10 g) = 2.43 W/kg
Maximum value of SAR (measured) = 19.6 W/kg

Dipole Calibration for Head Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 69.17 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 33.1 W/kg
SAR(1 g) = 8.18 W/kg; SAR(10 g) = 2.33 W/kg
Maximum value of SAR (measured) = 19.2 W/kg



0 dB = 17.9 W/kg = 12.53 dBW/kg

Impedance Measurement Plot for Head TSL



DASY5 Validation Report for Body TSL

Date: 16.03.2017

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1103

Communication System: UID 0 - CW; Frequency: 5200 MHz, Frequency: 5300 MHz, Frequency: 5500 MHz, Frequency: 5600 MHz, Frequency: 5800 MHz
Medium parameters used: f = 5200 MHz; σ = 5.45 S/m; ε_r = 48.2; ρ = 1000 kg/m^3 ,
Medium parameters used: f = 5300 MHz; σ = 5.58 S/m; ε_r = 48; ρ = 1000 kg/m^3 ,
Medium parameters used: f = 5500 MHz; σ = 5.85 S/m; ε_r = 47.7; ρ = 1000 kg/m^3 ,
Medium parameters used: f = 5600 MHz; σ = 5.99 S/m; ε_r = 47.5; ρ = 1000 kg/m^3 ,
Medium parameters used: f = 5800 MHz; σ = 6.28 S/m; ε_r = 47.2; ρ = 1000 kg/m^3
Phantom section: Flat Section
Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN3503; ConvF(5.29, 5.29, 5.29); Calibrated: 31.12.2016, ConvF(5.04, 5.04, 5.04); Calibrated: 31.12.2016, ConvF(4.62, 4.62, 4.62); Calibrated: 31.12.2016, ConvF(4.57, 4.57, 4.57); Calibrated: 31.12.2016, ConvF(4.48, 4.48, 4.48); Calibrated: 31.12.2016;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 04.01.2017
- Phantom: Flat Phantom 5.0 (back); Type: QD 000 P50 AA; Serial: 1002
- DASY52 52.8.8(1258); SEMCAD X 14.6.10(7372)

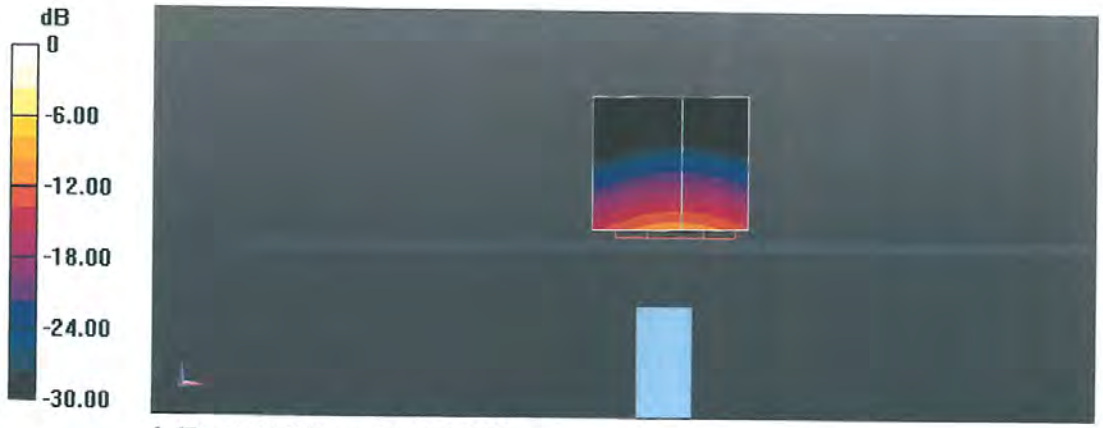
Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5200 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 64.58 V/m; Power Drift = -0.08 dB
Peak SAR (extrapolated) = 28.4 W/kg
SAR(1 g) = 7.43 W/kg; SAR(10 g) = 2.09 W/kg
Maximum value of SAR (measured) = 17.8 W/kg

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5300 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 65.42 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 30.0 W/kg
SAR(1 g) = 7.69 W/kg; SAR(10 g) = 2.17 W/kg
Maximum value of SAR (measured) = 18.6 W/kg

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5500 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 66.66 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 33.6 W/kg
SAR(1 g) = 8.12 W/kg; SAR(10 g) = 2.25 W/kg
Maximum value of SAR (measured) = 20.0 W/kg

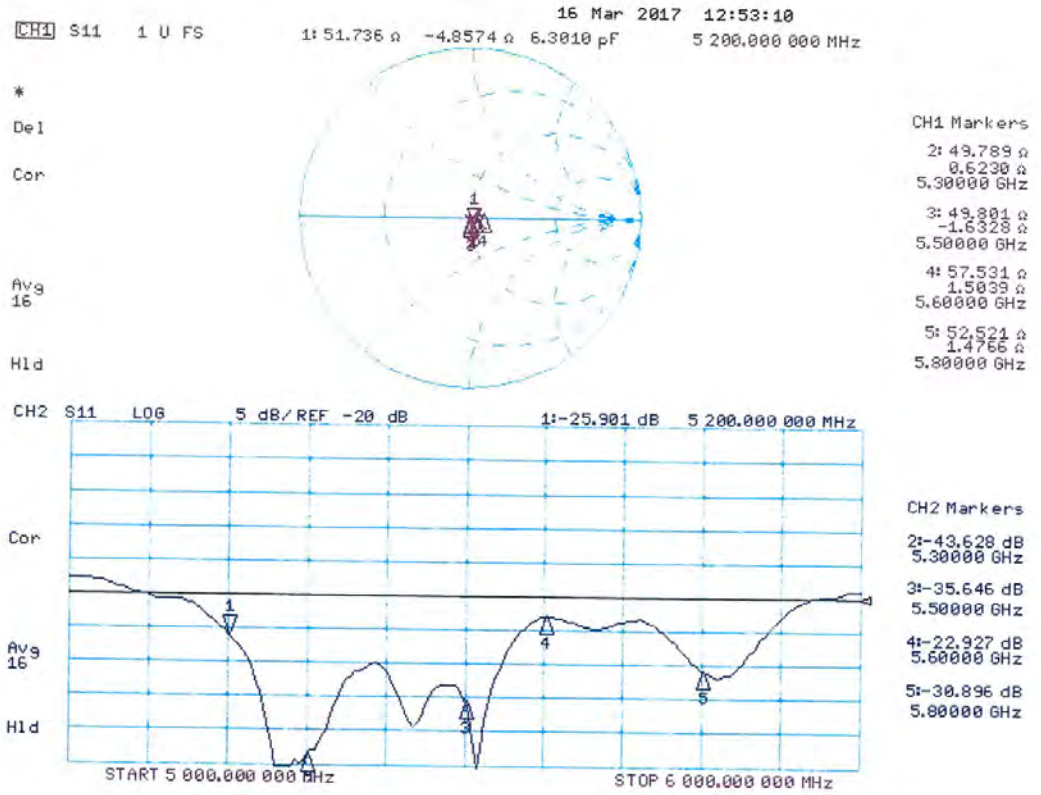
Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5600 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 65.60 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 33.9 W/kg
SAR(1 g) = 8.03 W/kg; SAR(10 g) = 2.25 W/kg
Maximum value of SAR (measured) = 19.6 W/kg

Dipole Calibration for Body Tissue/Pin=100mW, dist=10mm, f=5800 MHz/Zoom Scan, dist=1.4mm (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 63.69 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 34.6 W/kg
SAR(1 g) = 7.77 W/kg; SAR(10 g) = 2.16 W/kg
Maximum value of SAR (measured) = 19.8 W/kg



0 dB = 17.8 W/kg = 12.50 dBW/kg

Impedance Measurement Plot for Body TSL



Attachment 3. – SAR SYSTEM VALIDATION

SAR System Validation

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

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

Table Attachment 3.1 SAR System Validation Summary

SAR System	Freq. [MHz]	Date	Probe SN	Probe Type	Probe CAL. Point		PERM.	COND.	CW Validation			MOD. Validation		
							(εr)	(σ)	Sensi-tivity	Probe Linearity	Probe Isortopy	MOD. Type	Duty Factor	PAR
C	2450	2017-06-21	3866	EX3DV4	2450	Head	38.565	1.859	PASS	PASS	PASS	OFDM	N/A	PASS
C	5200	2017-05-16	3916	EX3DV4	5200	Head	35.245	4.775	PASS	PASS	PASS	OFDM	N/A	PASS
C	5300	2017-05-17	3916	EX3DV4	5300	Head	35.223	4.885	PASS	PASS	PASS	OFDM	N/A	PASS
C	5600	2017-05-18	3916	EX3DV4	5600	Head	35.105	5.225	PASS	PASS	PASS	OFDM	N/A	PASS
C	5800	2017-05-19	3916	EX3DV4	5800	Head	34.944	5.414	PASS	PASS	PASS	OFDM	N/A	PASS
C	2450	2017-06-21	3866	EX3DV4	2450	Body	51.985	2.015	PASS	PASS	PASS	OFDM	N/A	PASS
C	5200	2017-05-16	3916	EX3DV4	5200	Body	47.885	5.415	PASS	PASS	PASS	OFDM	N/A	PASS
C	5300	2017-05-17	3916	EX3DV4	5300	Body	47.545	5.554	PASS	PASS	PASS	OFDM	N/A	PASS
C	5600	2017-05-18	3916	EX3DV4	5600	Body	47.858	5.915	PASS	PASS	PASS	OFDM	N/A	PASS
C	5800	2017-05-19	3916	EX3DV4	5800	Body	47.665	6.115	PASS	PASS	PASS	OFDM	N/A	PASS

NOTE: While the probes have been calibrated for both a CW and modulated signals, all measurements were performed using communication systems calibrated for CW signals only. Modulations in the table above represent test configurations for which the measurement system has been validated per FCC KDB Publication 865664 D01v01r04 for scenarios when CW probe calibrations are used with other signal types. SAR systems were validated for modulated signals with a periodic duty cycle, such as GMSK, or with a high peak to average ratio (>5 dB), such as OFDM according to KDB 865664.