12.2. System Check Plots

This appendix contains the following system performance distributions plot

Scan Reference Number	Title
SYS/001	Site61_24Mar21_2450_HSL

SYS/001: Site61_24Mar21_2450_HSL Date: 24 Mar 2021 DUT: <u>D2450V2</u>; <u>Type: Dipole; Serial: SN725</u>;



Communication System: CW UID: 0; Frequency: 2450.0 MHz; Duty Cycle: 1; Medium: HSL; Site61_24Mar2021_110352_Head - 2450 5%; Medium parameters used: f = 2450.0 MHz; σ = 1.75 S/m; ϵ_r = 39.6; ρ = 1000 kg/m3; $\Delta \epsilon_r$ = 0.95 %; $\Delta \sigma$ = -2.60 %; No correction Phantom section: Flat; DASY 6 Configuration:

- Probe: EX3DV4 - SN7497; ConvF(7.74, 7.74, 7.74); Calibrated: 17 Mar 2021

- Sensor-Surface: 1.4 mm; VMS + 6p

- Electronics: DAE4 SN1543; Calibrated: 10 Mar 2021
- Phantom: ELI V8.0 (20deg probe tilt); Serial: 2121

- Measurement SW: cDASY6.14.0.959

Area Scan (40x80):Interpolated grid: dx=10 mm, dy=10 mm Zoom Scan1(30x30x30):Measurement grid: dx=5 mm, dy=5 mm, dz=1.5 mm; Grading Ratio: 1.5; Reference Value = 3.230 V/m; Power Drift = -0.02 dB Minimum horizontal 3dB distance: 8.9 mm; Vertical M2/M1 Ratio: 78.6 %; SAR(1 g) = 2.480 W/kg; SAR(10 g) = 1.170 W/kg

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12.3. SAR Distribution Plots

12.3.1. Bluetooth

This sub-section contains SAR Distribution Plots for Wi-Fi and Bluetooth:

Scan Reference Number	Title
WPAN//001	Back 0mm BT CH39

WPAN//001: Back 0mm BT CH39 Date: 26 Mar 2021 DUT: Apple Inc; Type: Keyboard; Model: A2449;



Communication System: IEEE 802.15.1 Bluetooth (GFSK, DH1) UID: 10030; Frequency: 2441.0 MHz; Duty Cycle: 0.31; Medium: HSL; Site61_24Mar2021_110352_Head - 2450 5%; Medium parameters used: f = 2441.0 MHz; σ = 1.75 S/m; ϵ_r = 39.6; ρ = 1000 kg/m3; $\Delta\epsilon_r$ = 0.95 %; $\Delta\sigma$ = -2.60 %; No correction Phantom section: Flat;

DASY 6 Configuration:

- Laboratory Name: Site61;
- Probe: EX3DV4 SN7497; ConvF(7.74, 7.74, 7.74); Calibrated: 17 Mar 2021
- Sensor-Surface: 1.4 mm; VMS + 6p
- Electronics: DAE4 SN1543; Calibrated: 10 Mar 2021
- Phantom: ELI V8.0 (20deg probe tilt); Serial: 2121
- Measurement SW: cDASY6.14.0.959

Area Scan (160x140):Interpolated grid: dx=10 mm, dy=10 mm

Zoom Scan1(30x30x30):Measurement grid: dx=5 mm, dy=5 mm, dz=1.5 mm; Grading Ratio: 1.5; Reference Value = 0.030 V/m; Power Drift = -0.01 dB Minimum horizontal 3dB distance: > 15.0 mm;

Vertical M2/M1 Ratio: 78.8 %; SAR(1 g) = 0.024 W/kg; SAR(10 g) = 0.013 W/kg

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12.4. Calibration Certificate for E-Field Probe

This sub-section contains Cal Certificates for E-Field Probes, and is not included in the total number of pages for this report.

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PRE0178313

Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Client UL UK

Certificate No: EX3-7497_Mar21

S

С

S

Schweizerischer Kalibrierdienst

Service suisse d'étalonnage

Servizio svizzero di taratura

Swiss Calibration Service

Accreditation No.: SCS 0108

CALIBRATION CERTIFICATE

Object

EX3DV4 - SN:7497

Calibration procedure(s)

QA CAL-01.v9, QA CAL-12.v9, QA CAL-14.v6, QA CAL-23.v5, QA CAL-25.v7 Calibration procedure for dosimetric E-field probes

Calibration date:

March 17, 2021

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)

		Cal Data (Cartificate No.)	Scheduled Calibration
Primary Standards	ID	Cal Date (Certificate (10.))	Apr-21
Power meter NRP	SN: 104778	01-Apr-20 (No. 217-03100/05101)	Apr-21
Power sensor NRP-Z91	SN: 103244	01-Apr-20 (No. 217-03100)	Apr-21
Power sensor NPP-791	SN: 103245	01-Apr-20 (No. 217-03101)	Apr 21
Power sensor NRF 201	SN: CC2552 (20x)	31-Mar-20 (No. 217-03106)	Api-21
Reference 20 oB Attenuator	SNI 660	23-Dec-20 (No. DAE4-660_Dec20)	Dec-21
DAE4	SN. 000	30-Dec-20 (No. ES3-3013_Dec20)	Dec-21
Reference Probe ES3DV2	SN: 3013		
		Check Date (in house)	Scheduled Check
Secondary Standards	ID	on Are 18 (in house check Jun-20)	In house check: Jun-22
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check lup-20)	In house check: Jun-22
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check dur 20)	In bouse check: Jun-22
Douter consor Edd12A	SN: 000110210	06-Apr-16 (in house check Juli-20)	In house check: Jun-22
Power Sensor Lagree	SN: US3642U01700	04-Aug-99 (in house check Jun-20)	In house check: Oct-21
RF generator HP 80400	SN: US41080477	31-Mar-14 (in house check Oct-20)	In nouse check. Oct-21

Calibrated by:	Name Jeton Kastrati	Function Laboratory Technician	te l
Approved by:	Katja Pokovic	Technical Manager	allet
			Issued: March 17, 2021
This calibration certificat	te shall not be reproduced except in fu	Il without written approval of the laborato	pry.

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



Schweizerischer Kalibrierdienst S

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

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

Cloccom

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

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

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

Calibration is Performed According to the Following Standards:

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

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization 9 = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx, y, z are only intermediate values, i.e., the uncertainties of NORMx, y, z does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx, v.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).

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7497

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm $(\mu V/(V/m)^2)^A$	0.46	0.47	0.45	± 10.1 %
DCP (mV) ^B	100.2	101.3	101.3	

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dBõV	C	D dB	VR mV	Max dev.	Max Unc ^e (k=2)	
0	CW	X	0.00	0.00	1.00	0.00	186.0	±3.5%	5% ±4.7%	
1	er.	Y	0.00	0.00	1.00	1	189.6			
		Z	0.00	0.00	1.00		183.6			
10352-	Pulse Waveform (200Hz, 10%)	X	1.59	61.59	7.49	10.00	60.0	± 3.4 %	± 9.6 %	
AAA		Y	3.38	69.28	11.92		60.0	a store has	1000	
2.4	the second se	Z	1.50	61.13	7.19		60.0	1		
10353-	Pulse Waveform (200Hz, 20%)	X	0.81	60.00	5.77	6.99	80.0	±2.6%	± 9.6 %	
AAA	a side transmitteren and and	Y	2.91	71.10	11.74	1	80.0		10000	
12.22		Z	0.80	60.00	5.70		80.0		0.000	
10354-	Pulse Waveform (200Hz, 40%)	X	26.00	80.00	11.00	3.98	95.0	± 1.6 %	3% ± 9.6%	
AAA		Y	11.19	85.16	15,17		95.0			
		Z	60.00	82.00	11.00	1.000	95.0	in the second		
10355-	Pulse Waveform (200Hz, 60%)	X	0.25	60.24	5.38	2.22	120.0 ±	120.0 ± 0.8 %	± 0.8 %	± 9.6 %
AAA	1 bidd Hardionn (addriat borio)	Y	4.46	84.35	15.53	1	120.0			
	and the second states of the s	Z	0.27	60.64	5.41		120.0			
10387-	OPSK Waveform, 1 MHz	X	1.52	65.91	14.50	1.00	150.0	± 1.8 %	± 9.6 %	
AAA	and the second second second	Y	1.50	64.38	13.81		150.0		10000	
		Z	1.79	68.64	16.08	150.0				
10388-	OPSK Waveform, 10 MHz	X	1.99	66.47	15.06	0.00	150.0	±1.1%	± 9.6 %	
AAA	the state state and the state	Y	1.97	65.68	14.50	1.11.11	150.0			
		Z	2.30	69.00	16.48		150.0		-	
10396-	64-QAM Waveform, 100 kHz	X	1.99	64.94	16.10	3.01	150.0	± 1.3 %	± 9.6 %	
AAA		Y	2.12	65.36	16.21	1.1.1.1.1	150.0			
10024	the second se	Z	2.09	66.32	17.07		150.0			
10399-	64-QAM Waveform, 40 MHz	X	3.37	66.46	15.44	0.00	150.0	± 0.8 %	± 9.6 %	
AAA	a comparison and the second second we	Y	3.35	66.10	15.16	1 2 2 1	150.0	1	1.000	
0.445		Z	3.46	67.10	15.90		150.0	0111.5		
10414-	WLAN CCDF, 64-QAM, 40MHz	X	4.67	65.40	15.37	0.00	150.0	±1.3%	± 9.6 %	
AAA	the at each to the and the and	Y	4.73	65.17	15.19	1	150.0			
3.5.5.		7	4.72	65.66	15.61	1	150.0			

Note: For details on UID parameters see Appendix

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

⁴ The uncertainties of Norm X,Y,Z do not affect the E²-field uncertainty inside TSL (see Page 5).

^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:7497

	C1 fF	C2 fF	α V ⁻¹	T1 ms.V ⁻²	T2 ms.V ⁻¹	T3 ms	T4 V-2	T5 V-1	Т6
X	32.7	241.42	34.70	4.97	0.00	4.90	0.46	0.13	1.00
Y	39.7	294.46	34.97	4.69	0.00	4.98	0.59	0.17	1.00
Z	33.9	249.54	34.79	5.40	0.00	4.90	0.75	0.08	1.00

Sensor Model Parameters

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-60.5
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

Note: Measurement distance from surface can be increased to 3-4 mm for an Area Scan job.

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7497

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
13	55.0	0.75	17.70	17.70	17.70	0.00	1.00	± 13.3 %
450	43.5	0.87	10.98	10.98	10.98	0.12	1.30	± 13.3 %
600	42.7	0.88	10.31	10.31	10.31	0.10	1.20	± 13.3 %
750	41.9	0.89	10.07	10.07	10.07	0.47	0.89	± 12.0 %
835	41.5	0.90	9.78	9.78	9.78	0.53	0.80	± 12.0 %
900	41.5	0.97	9.61	9.61	9.61	0.47	0.80	± 12.0 %
1750	40.1	1.37	8.64	8.64	8.64	0.33	0.86	± 12.0 %
1900	40.0	1.40	8.37	8.37	8.37	0.31	0.86	± 12.0 %
2100	39.8	1.49	8.34	8.34	8.34	0.29	0.86	± 12.0 %
2300	39.5	1.67	8.03	8.03	8.03	0.29	0.90	± 12.0 %
2450	39.2	1.80	7.74	7.74	7.74	0.29	0.90	± 12.0 %
2600	39.0	1.96	7.59	7.59	7.59	0.38	0.90	± 12.0 %
3300	38.2	2.71	7.27	7.27	7.27	0.30	1.30	± 13.1 %
3500	37.9	2.91	7.20	7.20	7.20	0.30	1.30	± 13.1 %
3700	37.7	3.12	7.10	7.10	7.10	0.30	1.30	± 13.1 %
3900	37.5	3.32	6.64	6.64	6.64	0.40	1.60	± 13.1 %
4100	37.2	3.53	6.51	6.51	6.51	0.40	1.60	± 13.1 %
4200	37.1	3.63	6.45	6.45	6.45	0.40	1.60	± 13.1 %
4400	36.9	3.84	6.27	6.27	6.27	0.40	1.70	± 13.1 %
4600	36.7	4.04	6.21	6.21	6.21	0.40	1.70	± 13.1 %
4800	36.4	4.25	6.15	6.15	6.15	0.40	1.80	± 13.1 %
4950	36.3	4.40	6.03	6.03	6.03	0.40	1.80	± 13.1 %
5250	35.9	4.71	5.29	5.29	5.29	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.75	4.75	4.75	0.40	1.80	± 13.1 %
5750	35.4	5.22	4.90	4.90	4.90	0.40	1.80	± 13.1 %

Calibration Parameter Determined in Head Tissue Simulating Media

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

⁶ 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

^o 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), $\vartheta = 0^{\circ}$

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

March 17, 2021



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

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



Conversion Factor Assessment

Appendix: Modulation Calibration Parameters

UID	Rev	Communication System Name	Group	PAR (dB)	Unc ^E (k=2)
0		CW	CW	0.00	± 4.7 %
10010	CAA	SAR Validation (Square, 100ms, 10ms)	Test	10.00	± 9.6 %
10011	CAB	UMTS-FDD (WCDMA)	WCDMA	2.91	± 9.6 %
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	± 9.6 %
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	± 9.6 %
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9,39	± 9.6 %
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	± 9.6 %
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.56	± 9.6 %
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	± 9.6 %
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	± 9.6 %
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	± 9.6 %
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	± 9.6 %
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	+ 9.6 %
10030	CAA	IEEE 802 15 1 Bluetooth (GESK, DH1)	Bluetooth	5.30	+9.6%
10031	CAA	IEEE 802 15 1 Bluetooth (GESK_DH3)	Bluetooth	1.87	+96%
10032	CAA	IEEE 802 15 1 Bluetooth (GESK DH5)	Bluetooth	1.16	+96%
10033	CAA	IEEE 802 15 1 Bluetoath (PI/4-DOPSK_DH1)	Bluetooth	7.74	+ 9.6 %
10034	CAA	IEEE 802 15 1 Bluetoeth (Pl/4-DOPSK, DH3)	Bluetooth	1.14	1 9.0 %
10034	CAA	IEEE 802 15 1 Bluetooth (PI/4-DOPSK, DH5)	Bluetooth	4.55	19.0 %
10035	CAA	IEEE 002.15.1 Bluetooth (P.DDSK, DH1)	Bluetooth	3.03	19.0 %
10030	CAA	IEEE 802.15.1 Bibelooti (6-DFSK, DH1)	Bluetoott	0.01	19.0 %
10037	CAA	IEEE 802.15.1 Blueloom (8-DPSK, DHS)	Bluetooth	4.//	± 9.0 %
10038	CAA	DELLASOON (A. DTT. DOM)	Bibetooth	4.10	19.0%
10039	CAB	GDMA2000 (1XR11, RC1)	CDMA2000	4.57	± 9.6 %
10042	CAB	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DQPSK, Halfrate)	AMPS	7.78	± 9.6 %
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	± 9.6 %
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	± 9.6 %
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10,79	± 9.6 %
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	± 9.6 %
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	± 9.6 %
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	± 9.6 %
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	± 9.6 %
10061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	± 9.6 %
10062	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	± 9.6 %
10063	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	± 9.6 %
10064	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	± 9.6 %
10065	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	± 9.6 %
10066	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	± 9.6 %
10067	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	± 9.6 %
10068	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	± 9.6 %
10069	CAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	± 9.6 %
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	± 9.6 %
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	± 9.6 %
10073	CAB	IEEE 802.11g WIFI 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	± 9.6 %
10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	± 9.6 %
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	± 9.6 %
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	± 9.6 %
10077	CAR	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	±9.6%
10081	CAR	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	+9.6%
10082	CAR	IS-54 / IS-136 FDD (TDMA/FDM, PI/4-DOPSK, Fullrate)	AMPS	4.77	+9.6%
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	+9.6%
10097	CAC	UMTS-EDD (HSDPA)	WCDMA	3.08	+96%
10098	DAG	UMTS-EDD (HSUPA Subtest 2)	WCDMA	3.08	+9.6 %
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10099	CAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	± 9.6 %
10100	CAC	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	± 9.6 %
10101	CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10102	CAB	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10103	DAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10104	CAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	± 9.6 %
10105	CAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	± 9.6 %
10108	CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	± 9.6 %
10109	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10110	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10111	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	± 9.6 %
10112	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FOD	6.59	± 9.6 %
10113	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10114	CAG	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	± 9.6 %
10115	CAG	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	± 9.6 %
10116	CAG	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	± 9.6 %
10117	CAG	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	± 9.6 %
10118	CAD	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	± 9.6 %
10119	CAD	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	± 9.6 %
10140	CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10141	CAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	± 9.6 %
10142	CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10143	CAD	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	+9.6%
10144	CAC	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	+9.6%
10145	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, OPSK)	LTE-FDD	5.76	+9.6%
10146	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	+9.6%
10147	CAC	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	+9.6%
10149	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-OAM)	LTE-FDD	6.42	+96%
10150	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	+9.6%
10151	CAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, OPSK)	LTE-TDD	9.28	+9.6%
10152	CAE	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-OAM)	LTE-TOD	9.92	+96%
10153	CAE	LTE-TDD (SC-FDMA, 50% BB, 20 MHz, 64-OAM)	LTE-TOD	10.05	+96%
10154	CAE	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, OPSK)	LTE-FDD	5.75	+9.6%
10155	CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-OAM)	LTE-EDD	6.43	+9.6%
10156	CAF	LTE-EDD (SC-EDMA 50% RB 5 MHz, OPSK)	LTE-FDD	5.79	+96%
10157	CAF	LTE-EDD (SC-EDMA 50% RB 5 MHz 16-DAM)	1 TE-EDD	6.49	+96%
10158	CAE	LTE-EDD (SC-EDMA 50% BB 10 MHz 64-OAM)	LTE-FDD	6.62	+96%
10159	CAC	LTE-EDD (SC-EDMA 50% RB 5 MHz 64-OAM)	I TE-FDD	6.56	+06%
10160	CAG	LTE-EDD (SC-EDMA 50% RB 15 MHz OPSK)	LITE-FDD	5.82	+06%
10161	CAG	LTE-EDD (SC-EDMA 50% RB 15 MHz 16-OAM)	LTE-FDD	6.43	+06%
10162	CAG	LTE-EDD (SC-EDMA 50% RB 15 MHz, 64-OAM)	LTE-FDD	6.58	+96%
10166	CAG	LTE-EDD (SC-EDMA 50% RB 14 MHz OPSK)	LTE-FDD	5.46	+96%
10167	CAG	LTE-EDD (SC-EDMA 50% RB 14 MHz 16-OAM)	LTE-FDD	6.21	+06%
10168	CAG	17E-EDD (SC-EDMA 50% RB 14 MHz, 54-04M)	LTE-FDD	6.70	+06%
10160	CAG	ITE-EDD (SC-EDMA 1 PB 20 MHz OPSK)	LTE-EDD	5.73	10.6%
10170	CAG	1 TE-EDD (SC-EDMA, 1 PR 20 MHz, 18 OAM)	LTE-FDD	6.52	10.6%
10170	CAG	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 10-QAM)		6.52	19.0 %
10172	CAE	LTE-TOD (SC-EDMA, TRB, 20 MHz, 04-0/M)	LIETOD	0.49	19.0 %
10172	CAE	1 TE-TOD (SC-FDMA, 1 RD, 20 MHz, 0FOK)		9.21	19.0%
10173	CAE	LTE TOD (SC FDMA, I RO, 20 MHZ, 10-QAM)	LIC-IDD	9.40	19.0%
10174	CAF	LTE-TOD (SC-TOMA, TKB, 20 MHZ, 64-QAM)		10.25	19.0%
10170	CAF	LTE-FDD (SC-FDMA, TKB, TUMHZ, QPSK)	LIE-FUD	5.72	19.0%
10176	CAF	LTE-FUD (SC-FUMA, TKB, 10 MHZ, 16-QAM)	LIE-FUD	0.52	19.6%
10177	CAE	LTE-FOD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LIE-FOD	5.73	± 9.6 %
10178	CAE	LTE-FUD (SC-FUMA, 1 RB, 5 MHz, 16-QAM)	LTE-FOD	6.52	± 9.6 %
101/9	AAE	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10180	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %

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10181	040	LTE-EDD (SC-EDMA 1 RB 15 MHz OPSK)	LI TE-EDD	572	+06%
10182	CAG	1 TE-EDD (SC-EDMA, 1 RB, 15 MHz, 18-OAM)	L TE-EDD	6.52	10.6%
10183	CAG	LTE-EDD (SC-EDMA, 1 RB, 15 MHz, 64-OAM)	I TE EDD	6.50	10.6%
10184	CAG	TE-FDD (SC-FDMA, 1 RB, 3 MHz, 04-0AW)	LITE-FOD	6.50	19.0 %
10185	CAG	TE-FDD (SC-FDMA, 1 RB, 3 MHz, 4F-SK)	LITE-EDD	6.51	10.6%
10186	CAI	LTE-FOD (SC-FOMA, 1 RB, 3 MHz, 10-QAM)	LTE-FDD	6.50	+ 9.6 %
10187	CAG	LTE-EDD (SC-EDMA 1 RB 14 MHz OPSK)	LITE-EDD	5.73	+06%
10188	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-OAM)	L TE-EDD	6.52	+06%
10189	CAG	LTE-EDD (SC-EDMA 1 RB 14 MHz 64-OAM)	LTE-FOD	6.50	+06%
10193	CAE	IEEE 802 11n (HT Greenfield 6.5 Mbns BPSK)	WIAN	8.09	+96%
10194	GAE	IEEE 802 110 (HT Greenfield 39 Mbns 16-OAM)	WIAN	8 12	+96%
10195	CAE	IEEE 802 110 (HT Greenfield, 65 Mbps, 10-04M)	WIAN	8.21	+96%
10196	CAE	IEEE 802 11n (HT Mixed 6.5 Mbns 8PSK)	WIAN	8 10	+06%
10107	DAE	IEEE 802 11n (HT Mixed 30 Mbps, Dr Sk)	WI AN	8.13	+06%
10108	AAE	IEEE 802 110 (HT Mixed, 65 Mbps, 10-QAM)	MI AN	9.27	106%
10210	CAF	IEEE 802.11n (HT Mixed, 03 Mbps, 04-04M)	MIAN	0.27	19.0 %
10213	CAF	IEEE 802 11a (HT Mixed 42 3 Mbps, 6F SK)	WILAN	0.03	19.0 %
10220	AAF	IEEE 902 110 (HT Mixed, 73.2 Mbps, 10-QAM)	WLAN	0.13	19.0 %
10221	CAC	IEEE 002.110 (HT Mixed, 12.2 Mops, 04-QAM)	VVLAIV	0.27	19.0 %
10222	CAG	IEEE 002.11n (HT Mixed, 15 Mbps, BPSK)	VVLAIN	8.00	19.0%
10223	CAD	IEEE 002.11n (HT Mixed, 50 Mbps, 10-QAM)	VVLAIN	8.48	19.0 %
10224	CAD	LINTE EDD (HERAL)	VYLAIN	8.08	19.0%
10220	CAD	UMIS-FDD (RSPA+)	WCOMA	5.97	19.0%
10220	CAD	LTE-TOD (SC-FDMA, TRB, 1.4 MHZ, 16-QAM)	LTE-TOD	9.49	19.0%
10227	CAD	LTE-TOD (SC-FDMA, TRB, 1.4 MHz, 64-QAM)	LIE-TOD	10.26	19.0%
10220	CAD	LTE-TOD (SC-FDMA, TRB, 1.4 MHZ, QPSK)	LIE-TOD	9.22	19.0 %
10229	DAC	LTE-TOD (SC-FDMA, TRB, 3 MHZ, 16-QAM)		9.48	± 9.0 %
10230	CAC	LTE-TOD (SC-FDMA, 1 RB, 3 MHZ, 64-QAM)	LIE-TOD	10.25	± 9.6 %
10231	CAC	LTE-TOD (SC-FDMA, TRB, 3 MHZ, QPSK)		9.19	19.0%
10232	CAD	LTE-TOD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LIE-TOD	9.48	± 9.6 %
10233	CAD	LTE-TOD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LIE-IDD	10.25	19.6%
10234	CAD	LTE-TOD (SC-FDMA, TRB, 5 MHZ, QPSK)	1175.700	9.21	19.0 %
10235	CAD	LTE-TOD (SC-FDMA, TRB, T0 MHZ, T6-QAM)	LIE-TOD	9.48	19.0 %
10230	CAD	LTE-TOD (SC-FOMA, TRB, 10 MHZ, 64-QAM)	LIE-TOD	10.25	± 9.0 %
10237	CAD	LTE-TOD (SC-FDMA, TRB, 10 MHZ, QPSK)	LITE-TOD	9.21	19.0 %
10238	CAB	LTE-TOD (SC-FDMA, TRB, 15 MHZ, 16-QAM)	LIE-TOD	9,48	19.0 %
10239	CAB	LTE-TOD (SC-FDMA, T RB, 15 MHZ, 64-QAM)	LIE-IDD	10.25	± 9.0 %
10240	CAB	LTE-TOD (SC-FUMA, T RB, 15 MHZ, QPSK)	LIE-TOD	9.21	± 9.0 %
10241	CAB	LTE-TOD (SC-FDMA, 50% RB, 1.4 MHZ, 16-QAM)	LIE-IDD	9.82	± 9.6 %
10242	CAD	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LIE-IDD	9.86	± 9.6 %
10243	CAD	LTE-TOD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LIE-IDD	9,46	± 9.6 %
10244	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TOD	10.06	± 9.6 %
10245	CAG	LTE-TOD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TOD	10.06	± 9.6 %
10246	CAG	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LIE-IDD	9.30	± 9.6 %
10247	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-IDD	9.91	± 9.6 %
10248	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TOD	10.09	± 9.6 %
10249	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10250	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TOD	9.81	± 9.6 %
10251	CAF	LTE-TOD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TOD	10.17	± 9.6 %
10252	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TOD	9.24	± 9.6 %
10253	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TOD	9.90	± 9.6 %
10254	CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TOD	10.14	± 9.6 %
10255	CAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TOD	9.20	± 9.6 %
10256	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	± 9.6 %
10257	CAD	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	± 9.6 %
10258	CAD	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TOD	9.34	± 9.6 %
10259	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TOD	9.98	± 9.6 %

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10260	CAG	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	± 9.6 %
10261	CAG	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10262	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	± 9.6 %
10263	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	± 9.6 %
10264	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	± 9.6 %
10265	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10266	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	± 9.6 %
10267	CAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	L'TE-TDD	9.30	± 9.6 %
10268	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10269	CAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	± 9.6 %
10270	CAB	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	± 9.6 %
10274	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	± 9.6 %
10275	CAD	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	± 9.6 %
10277	CAD	PHS (QPSK)	PHS	11.81	± 9.6 %
10278	CAD	PHS (QPSK, BW 884MHz, Rolloff 0.5)	PHS	11.81	± 9.6 %
10279	CAG	PHS (QPSK, BW 884MHz, Rolloff 0.38)	PHS	12.18	± 9.6 %
10290	CAG	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	± 9.6 %
10291	CAG	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	± 9.6 %
10292	CAG	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	± 9.6 %
10293	CAG	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	± 9.6 %
10295	CAG	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	+ 9.6 %
10297	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	+ 9.6 %
10298	CAF	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, OPSK)	LTE-FDD	5.72	+9.6%
10299	CAF	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	+ 9.6 %
10300	CAC	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6 60	+9.6%
10301	CAC	IEEE 802,16e WIMAX (29:18, 5ms, 10MHz, OPSK, PUSC)	WIMAX	12.03	+96%
10302	CAB	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3CTRL)	WIMAX	12.57	+9.6%
10303	CAB	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	WIMAX	12.52	+9.6%
10304	CAA	IEEE 802.16e WIMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	WIMAX	11.86	+9.6%
10305	CAA	IEEE 802.16e WIMAX (31:15, 10ms, 10MHz, 64QAM, PUSC)	WIMAX	15.24	+9.6%
10306	CAA	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 64QAM, PUSC)	WIMAX	14 67	+96%
10307	AAR	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, QPSK, PUSC)	WIMAX	14.49	+96%
10308	AAB	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	WIMAX	14.46	+9.6%
10309	AAB	IEEE 802.16e WIMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3)	WIMAX	14.58	+9.6%
10310	AAB	IEEE 802 16e WiMAX (29:18, 10ms, 10MHz, OPSK, AMC 2x3	WIMAX	14.57	+96%
10311	AAB	LTE-EDD (SC-EDMA 100% RB 15 MHz OPSK)	1 TE-EOD	6.06	+9.6%
10313	AAD	IDEN 1:3	IDEN	10.51	+96%
10314	000	IDEN 1:6	IDEN	13.48	+96%
10315	100	IEEE 802 11h WiEi 2 4 GHz (DSSS 1 Mhos 96oc dc)	WIAN	1.71	+96%
10316	100	IEEE 802 110 WIEL2 4 GHz (ERP-OEDM 6 Mbos 960c dc)	WIAN	8 36	+96%
10317	000	IEEE 802.11a WIFI 5 GHz (OEDM 6 Mbos 96oc dc)	WIAN	8 36	+96%
10352	1000	Pulse Waveform (200Hz, 10%)	Generic	10.00	+96%
10353	1000	Pulse Waveform (200Hz, 20%)	Generic	6.00	+06%
10354	1000	Pulse Waveform (200Hz, 40%)	Generic	3.08	+06%
10355	AAA	Pulse Waveform (200Hz 60%)	Generic	2.30	+06 %
10356	AAA	Pulse Waveform (200Hz 80%)	Generic	0.07	+0.6.0/
10387	AAA	OPSK Waveform 1 MHz	Generic	5.40	19.0 %
10388	AAA	OPSK Waveform 10 MHz	Generic	5.10	10.0 %
10306	AAA	64.04M Waveform 100 kHz	Generic	6.22	19.0 %
10300	AAA	64-OAM Waveform 40 MHz	Generic	6.27	19.0 %
10399	AAA	IEEE 902 11 ap W/Ei /20MHz 64 OALL 00ap do)	Generic Mail ANI	0.2/	19.0%
10400	AAD	IEEE 002.11ac WIEI (20MID2, 04-QAM, 99pC 0C)	ANI ANI	8.37	19.0%
10401	AAA	1666 802.11ac WiFi (40MFiz, 04-QAM, 99pc 0C)	VAN	8.60	19.6%
10402	AAA	CDMA2000 (1/EV DO DO: 0)	COMAGOOD	8.53	19.6%
10403	AAB	COMA2000 (1XEV-DO, REV. 0)	CDMA2000	3.76	± 9.6 %
10404	AAB	COMA2000 (1XEV-DO, KEV, A)	CDMA2000	3.77	±9.6%
10406	AAD	COMAZOOD, RC3, SO32, SCH0, Full Rate	CDMA2000	5.22	± 9.6 %

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10410	AAA	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub=2,3,4,7,8.9)	LTE-TDD	7.82	± 9.6 %
10414	AAA	WLAN CCDF, 64-QAM, 40MHz	Generic	8.54	± 9.6 %
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc dc)	WLAN	1.54	± 9.6 %
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10417	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Long)	WLAN	8.14	± 9.6 %
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Short)	WLAN	8.19	± 9.6 %
10422	AAA	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	± 9.6 %
10423	AAA	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	± 9.6 %
10424	AAE	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	± 9.6 %
10425	AAE	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	± 9.6 %
10426	AAE	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	± 9.6 %
10427	AAB	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	± 9.6 %
10430	AAB	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	±9.6 %
10431	AAC	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FOD	8.38	± 9.6 %
10432	AAB	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10433	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10434	AAG	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	±9.6 %
10435	AAA	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10447	AAA	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	±9.6%
10448	AAA	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clippin 44%)	LTE-FDD	7.53	± 9.6 %
10449	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Cliping 44%)	LTE-FDD	7.51	± 9.6 %
10450	AAA	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	± 9.6 %
10451	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	± 9.6 %
10453	AAC	Validation (Square, 10ms, 1ms)	Test	10.00	± 9.6 %
10456	AAC	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc dc)	WLAN	8.63	± 9.6 %
10457	AAC	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	± 9.6 %
10458	AAC	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	± 9.6 %
10459	AAC	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	± 9.6 %
10460	AAC	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	± 9.6 %
10461	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.82	±9.6%
10462	AAC	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TOD	8.30	± 9.6 %
10463	AAD	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.56	± 9.6 %
10464	AAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10465	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	±9.6%
10466	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10467	AAA	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub)	LTE-TOD	7.82	± 9.6 %
10468	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10469	AAD	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Sub)	LTE-TOD	8.56	± 9.6 %
10470	AAD	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10471	AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10472	AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Sub)	LTE-TOD	8.57	± 9.6 %
10473	AAA	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10474	AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10475	AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10477	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10478	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10479	AAC	LTE-TDD (SC-FDMA, 50% RB, 1,4 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10480	AAA	LTE-TDD (SC-FDMA, 50% RB. 1.4 MHz, 16-OAM, UL Sub)	LTE-TDD	8.18	± 9.6 %
10481	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-OAM, UL Sub)	LTE-TDD	8.45	±9.6%
10482	000	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, OPSK, UI, Sub)	LTE-TDD	7.71	±9.6%
10483	000	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-OAM, Sub)	LTE-TOD	8 39	+96%
10484	AAR	LTE-TDD (SC-FDMA 50% RB 3 MHz 64-OAM UL Sub)	LTE-TDD	8 47	+96%
10485	AAD	LTE-TOD (SC-EDMA 50% RB 5 MHz OPSK UI Sub)	LTE-TOD	7 50	+96%
10486	AAD	LTE-TOD (SC-EDMA 50% RB 5 MHz 16-OAM UL Sub)	LTE-TOD	8 38	+96%
10487	AAB	LTE-TOD (SC-EDMA 50% RB 5 MHz 64-DAM UL Sub)	L TE-TOD	0.30	+0.6 %
10101	AAC	LILLING (OCTORIN, OVATO, OTALL, OTALL	LILIUD	0.00	1 9.0 %

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10488	AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Sub)	LTE-TOD	7.70	± 9.6 %
10489	AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TOD	8.31	± 9.6 %
10490	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TOD	8.54	± 9.6 %
10491	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Sub)	LTE-TOD	7.74	± 9.6 %
10492	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.41	± 9.6 %
10493	AAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.55	± 9.6 %
10494	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10495	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.37	± 9.6 %
10496	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10497	AAE	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.67	± 9.6 %
10498	AAF	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.40	± 9.6 %
10499	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.68	± 9.6 %
10500	AAF	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.67	± 9.6 %
10501	AAF	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.44	± 9.6 %
10502	AAR	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TOD	8.52	± 9.6 %
10503	AAR	LTE-TOD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.72	± 9.6 %
10504	AAB	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-OAM, UL Sub)	LTE-TOD	8.31	± 9.6 %
10505	AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	± 9.6 %
10506	AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10507	AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.36	± 9.6 %
10508	AAE	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.55	± 9.6 %
10509	AAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.99	± 9.6 %
10510	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8,49	± 9.6 %
10511	AAF	LTE-TOD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.51	± 9.6 %
10512	AAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, OPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10513	AAE	LTE-TOD (SC-EDMA, 100% BB, 20 MHz, 16-OAM, UL Sub)	LTE-TDD	8.42	± 9.6 %
10514	AAF	LTE-TDD (SC-EDMA, 100% BB, 20 MHz, 64-OAM, UL Sub)	LTE-TDD	8.45	± 9.6 %
10515	AAE	IFEE 802 11b WiFi 2 4 GHz (DSSS, 2 Mbos, 99oc dc)	WLAN	1.58	± 9.6 %
10516	AAC	IEEE 802 11b WiFi 2 4 GHz (DSSS, 5.5 Mbos, 99oc dc)	WLAN	1.57	± 9.6 %
10517	AAE	IFFF 802 11b WiFi 2.4 GHz (DSSS, 11 Mbos, 99pc dc)	WLAN	1.58	± 9.6 %
10518	AAF	IEEE 802 11a/b WiEi 5 GHz (OEDM, 9 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10519	AAE	IEEE 802 11a/b WiEi 5 GHz (QEDM, 12 Mbns, 99pc dc)	WLAN	8.39	± 9.6 %
10520	AAP	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbos, 99pc dc)	WLAN	8.12	± 9.6 %
10521	AAB	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbos, 99oc dc)	WLAN	7.97	± 9.6 %
10522	AAP	IEEE 802 11a/b WiFi 5 GHz (OEDM, 36 Mbps, 99pc dc)	WLAN	8,45	± 9.6 %
10523	AAC	IEEE 802 11a/b WiFi 5 GHz (OEDM, 48 Mbps, 99pc dc)	WLAN	8.08	± 9.6 %
10524	AAC	IEEE 802 11a/b WIFI 5 GHz (OEDM, 54 Mbos, 99pc dc)	WLAN	8.27	± 9.6 %
10525	AAC	IEEE 802 11ac WiEi (20MHz, MCS0, 99oc dc)	WLAN	8.36	± 9.6 %
10526	AAE	IEEE 802 11ac WiFi (20MHz MCS1, 99oc dc)	WLAN	8.42	± 9.6 %
10527	AAF	IEEE 802 11ac WiFi (20MHz, MCS2, 99pc dc)	WLAN	8.21	± 9.6 %
10528	AAF	IEEE 802 11ac WiFi (20MHz, MCS3, 99pc dc)	WLAN	8.36	± 9.6 %
10529	AAF	IEEE 802 11ac WiFi (20MHz, MCS4, 99pc dc)	WLAN	8.36	± 9.6 %
10531	AAF	IEEE 802 11ac WiFi (20MHz, MCS6, 99pc dc)	WLAN	8.43	± 9.6 %
10532	AAF	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc dc)	WLAN	8.29	± 9.6 %
10533	AAF	IEEE 802 11ac WiFi (20MHz, MCS8, 99pc dc)	WLAN	8.38	± 9.6 %
10534	AAE	IEEE 802 11ac WiFi (40MHz, MCS0, 99pc dc)	WLAN	8.45	± 9.6 %
10535	AAE	IEEE 802 11ac WiFi (40MHz MCS1 99nc dc)	WLAN	8.45	+9.6%
10536	AAE	IEEE 802 11ac WiFi (40MHz, MCS2, 99pc dc)	WLAN	8.32	± 9.6 %
10537	AAF	IEEE 802 11ac WiFi (40MHz, MCS3, 99oc dc)	WLAN	8.44	± 9.6 %
10538	AAF	IEEE 802 11ac WiFi (40MHz, MCS4, 99oc dc)	WLAN	8.54	± 9.6 %
10540	AAF	IEEE 802 11ac WiFi (40MHz MCS8, 99oc dc)	WLAN	8.39	± 9.6 %
10541	AAA	IEEE 802 11ac WIEI (40MHz MCS7 99nc dc)	WLAN	8.46	± 9.6 %
10547	AAA	IEEE 802 11ac WiFi (40MHz MCS8 99oc dc)	WLAN	8.65	+9.6%
10542	AAA	IEEE 802 11ac WiFi (40MHz, MCS0, 9500 00)	WLAN	8.65	+96%
10543	AAC	IEEE 802.11ac WiFi (80MHz MCS0, 99pc dc)	WLAN	8.47	±96%
10544	AAC	IEEE 802 11ac WiEi (80MHz MCS1 80cc dc)	WIAN	8.55	+96%
10040	AAC	The out that will tooming, woot, sope out	116011	0.00	2 010 10

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10546	AAC	IEEE 802 11ac WiEi (80MHz MCS2 00oc do)	1 140 441	1 0.05	1.000
10547	AAC	IEEE 802 11ac WiFi (80MHz, MCS2, 95pc dc)	WLAN	8.35	± 9.6 %
10548	AAC	IEEE 802.11ac WiFi (80MHz, MCS4, 99ac dc)	WLAN	8.49	± 9.6 %
10550	AAC	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc dc)	WLAN	8.3/	± 9.6 %
10551	AAC	IEEE 802.11ac WiFI (80MHz, MCS7, 90oc dc)	IAG AN	8.38	± 9.6 %
10552	AAC	IEEE 802.11ac WiFi (80MHz, MCSR, 99pc dc)	WLAN	8.50	±9.6 %
10553	AAC	IEEE 802 11ac WiFi (80MHz, MCS0, 99pc dc)	WLAN	8.42	± 9.6 %
10554	AAC	IEEE 802.11ac WIFI (00MHz, MCS9, 99pc 00)	WLAN	8.45	± 9.6 %
10555	AAC	IEEE 802 11ac Witt (100Mitz, MCS1, 00ac da)	WLAN	8.48	± 9.6 %
10556	AAC	IEEE 802 1120 WEI (100MHz, MCS1, 99pc 00)	WLAN	8.47	± 9.6 %
10557	AAC	IEEE 802.11ac WIFI (100MHz, MCS2, 99pc 0C)	VVLAN	8.50	± 9.6 %
10558	AAC	IEEE 802.11ac WIFI (100MHz, MCS3, 99pc 00)	WLAN	8.52	± 9.6 %
10580	AAC	IEEE 002.11ac WIFI (100MHz, MCS4, 99pc 00)	WLAN	8.61	± 9.6 %
10561	AAC	IEEE 802.11ac WiFi (100MHz, MCS6, 99pc 00)	WLAN	8.73	± 9.6 %
10562	AAC	IEEE 802.11ac WIFI (160MHz, MCS7, 99pc dc)	WLAN	8.56	± 9.6 %
10502	AAC	1666 802.11ac WiFI (160MHz, MCS8, 99pc dc)	WLAN	8.69	± 9.6 %
10563	AAC	TEEE 802.11ac WIFI (160MHz, MCS9, 99pc dc)	WLAN	8.77	± 9.6 %
10004	AAC	TECE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc dc)	WLAN	8.25	± 9.6 %
10565	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc dc)	WLAN	8.45	± 9.6 %
10500	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc)	WLAN	8.13	± 9.6 %
10567	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc dc)	WLAN	8.00	± 9.6 %
10568	AAC	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc dc)	WLAN	8.37	± 9.6 %
10569	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc dc)	WLAN	8.10	± 9.6 %
10570	AAC	IEEE 802.11g WIFI 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc dc)	WLAN	8.30	± 9.6 %
10571	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc dc)	WLAN	1.99	± 9.6 %
10572	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc dc)	WLAN	1.99	± 9.6 %
10573	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc dc)	WLAN	1.98	± 9.6 %
10574	AAC	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc dc)	WLAN	1,98	± 9.6 %
10575	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	± 9.6 %
10576	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	± 9.6 %
10577	AAC	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	± 9.6 %
10578	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	± 9.6 %
10579	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	± 9.6 %
10580	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	± 9.6 %
10581	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	± 9.6 %
10582	AAD	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	± 9.6 %
10583	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	± 9.6 %
10584	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	± 9.6 %
10585	AAD	IEEE 802.11a/h WIFI 5 GHz (OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	± 9.6 %
10586	AAD	IEEE 802.11a/h WiFi 5 GHz (OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	± 9.6 %
10587	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	± 9.6 %
10588	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	± 9.6 %
10589	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	± 9.6 %
10590	AAA	IEEE 802.11a/h WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	± 9.6 %
10591	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc)	WLAN	8.63	± 9.6 %
10592	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc)	WLAN	8.79	± 9.6 %
10593	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc)	WLAN	8.64	± 9.6 %
10594	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc)	WLAN	8.74	± 9.6 %
10595	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc)	WLAN	8.74	± 9.6 %
10596	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc)	WLAN	8.71	± 9.6 %
10597	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc)	WLAN	8.72	± 9.6 %
10598	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc)	WLAN	8.50	± 9.6 %
10599	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc)	WLAN	8.79	± 9.6 %
10600	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc)	WLAN	8.88	± 9.6 %
10601	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc)	WLAN	8.82	+9.6%
10602	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc)	WLAN	8.94	± 9.6 %
10603	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc)	WLAN	9.03	±96%
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10604	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc dc)	WLAN	8.76	± 9.6 %
10605	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc dc)	WLAN	8.97	± 9.6 %
10606	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc dc)	WLAN	8.82	± 9.6 %
10607	AAC	IEEE 802,11ac WiFi (20MHz, MCS0, 90pc dc)	WLAN	8.64	± 9.6 %
10608	AAC	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc dc)	WLAN	8.77	± 9.6 %
10609	AAC	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc dc)	WLAN	8.57	± 9.6 %
10610	AAC	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc dc)	WLAN	8.78	± 9.6 %
10611	AAC	IEEE 802.11ac WiFI (20MHz, MCS4, 90pc dc)	WLAN	8.70	± 9.6 %
10612	AAC	IEEE 802,11ac WiFi (20MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10613	AAC	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc dc)	WLAN	8.94	± 9.6 %
10614	AAC	IEEE 802,11ac WiFi (20MHz, MCS7, 90pc dc)	WLAN	8.59	± 9.6 %
10615	AAC	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10616	AAC	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc dc)	WLAN	8.82	± 9.6 %
10617	AAC	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc dc)	WLAN	8.81	± 9.6 %
10618	AAC	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc dc)	WLAN	8.58	± 9.6 %
10619	AAC	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc dc)	WLAN	8.86	± 9.6 %
10620	AAC	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc dc)	WLAN.	8.87	± 9.6 %
10621	AAC	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10622	AAC	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc dc)	WLAN	8.68	± 9.6 %
10623	AAC	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc dc)	WLAN	8.82	± 9.6 %
10624	AAC	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc dc)	WLAN	8.96	± 9.6 %
10625	AAC	IEEE 802.11ac WiFI (40MHz, MCS9, 90pc dc)	WLAN	8.96	± 9.6 %
10626	AAC	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc dc)	WLAN	8.83	± 9.6 %
10627	AAC	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc dc)	WLAN	8.88	± 9.6 %
10628	AAC	IEEE 802,11ac WIFi (80MHz, MCS2, 90pc dc)	WLAN	8.71	± 9.6 %
10629	AAC	IEEE 802,11ac WiFi (80MHz, MCS3, 90pc dc)	WLAN	8.85	± 9.6 %
10630	AAC	IEEE 802,11ac WIFI (80MHz, MCS4, 90pc dc)	WLAN	8.72	± 9.6 %
10631	AAC	IEEE 802,11ac WiFi (80MHz, MCS5, 90pc dc)	WLAN	8.81	± 9.6 %
10632	AAC	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc dc)	WLAN	8,74	± 9.6 %
10633	AAC	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc dc)	WLAN	8.83	± 9.6 %
10634	AAC	IEEE 802,11ac WiFi (80MHz, MCS8, 90pc dc)	WLAN	8.80	± 9.6 %
10635	AAC	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc dc)	WLAN	8.81	± 9.6 %
10636	AAC	IEEE 802,11ac WiFi (160MHz, MCS0, 90pc dc)	WLAN	8.83	± 9.6 %
10637	AAC	IEEE 802,11ac WiFi (160MHz, MCS1, 90pc dc)	WLAN	8,79	± 9.6 %
10638	AAC	IEEE 802,11ac WiFi (160MHz, MCS2, 90oc dc)	WLAN	8.86	± 9.6 %
10639	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc dc)	WLAN	8.85	± 9.6 %
10640	AAC	IEEE 802,11ac WiFi (160MHz, MCS4, 90oc dc)	WLAN	8.98	± 9.6 %
10641	AAC	IEEE 802, 11ac WiFi (160MHz, MCS5, 90oc dc)	WLAN	9.06	± 9.6 %
10642	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc dc)	WLAN	9.06	± 9.6 %
10643	AAC	IEEE 802,11ac WiFi (160MHz, MCS7, 90pc dc)	WLAN	8.89	± 9.6 %
10644	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc dc)	WLAN	9.05	± 9.6 %
10645	AAC	IEEE 802 11ac WiFi (160MHz, MCS9, 90oc dc)	WLAN	9.11	± 9.6 %
10646	AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub=2.7)	LTE-TDD	11.96	± 9.6 %
10647	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, OPSK, UL Sub=2.7)	LTE-TDD	11.96	± 9.6 %
10648	AAC	CDMA2000 (1x Advanced)	GDMA2000	3.45	± 9.6 %
10652	AAC	LTE-TOD (OEDMA 5 MHz E-TM 3.1 Clipping 44%)	LTE-TDD	6.91	± 9.6 %
10653	AAC	LTE-TOD (OFDMA_10 MHz_E-TM_3.1_Clipping 44%)	LTE-TOD	7.42	± 9.6 %
10654	AAC	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	± 9.6 %
10655	AAC	LTE-TOD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TOD	7.21	± 9.6 %
10658	AAC	Pulse Waveform (200Hz, 10%)	Test	10.00	± 9.6 %
10659	MAC	Pulse Waveform (200Hz, 20%)	Test	6.99	± 9.6 %
10660	AAC	Pulse Waveform (200Hz, 40%)	Test	3.98	± 9.6 %
10661	AAC	Pulse Waveform (200Hz, 60%)	Test	2.22	± 9.6 %
10662	AAC	Pulse Waveform (200Hz, 80%)	Test	0.97	± 9.6 %
10670	AAC	Bluetooth Low Energy	Bluetooth	2 19	±96%
10671	AAC	IEEE 802 11ax (20MHz MCS0, 90oc dc)	WLAN	9.09	196%
10011	AAD	increases in the feature, mood, only and		0.00	

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10672	AAD	IEEE 802.11ax (20MHz, MCS1, 90pc dc)	WLAN	8.57	± 9.6 %
10673	AAD	IEEE 802.11ax (20MHz, MCS2, 90pc dc)	WLAN	8.78	± 9.6 %
10674	AAD	IEEE 802.11ax (20MHz, MCS3, 90pc dc)	WLAN	8.74	± 9.6 %
10675	AAD	IEEE 802.11ax (20MHz, MCS4, 90pc dc)	WLAN	8.90	± 9.6 %
10676	AAD	IEEE 802.11ax (20MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10677	AAD	IEEE 802.11ax (20MHz, MCS6, 90pc dc)	WLAN	8.73	± 9.6 %
10678	AAD	IEEE 802.11ax (20MHz, MCS7, 90pc dc)	WLAN	8.78	± 9.6 %
10679	AAD	IEEE 802.11ax (20MHz, MCS8, 90pc dc)	WLAN	8.89	± 9.6 %
10680	AAD	IEEE 802.11ax (20MHz, MCS9, 90pc dc)	WLAN	8.80	±9.6%
10681	AAG	IEEE 802.11ax (20MHz, MCS10, 90pc dc)	WLAN	8.62	± 9.6 %
10682	AAF	IEEE 802.11ax (20MHz, MCS11, 90pc dc)	WLAN	8.83	± 9.6 %
10683	AAA	IEEE 802.11ax (20MHz, MCS0, 99pc dc)	WLAN	8.42	± 9.6 %
10684	AAC	IEEE 802.11ax (20MHz, MCS1, 99pc dc)	WLAN	8.26	± 9.6 %
10685	AAC	IEEE 802.11ax (20MHz, MCS2, 99pc dc)	WLAN	8.33	+9.6%
10686	AAC	IEEE 802.11ax (20MHz, MCS3, 99pc dc)	WLAN	8.28	+9.6%
10687	AAF	IEEE 802,11ax (20MHz, MCS4, 99pc dc)	WLAN	8.45	+96%
10688	AAF	IEEE 802,11ax (20MHz, MCS5, 99pc dc)	WIAN	8.29	+96%
10689	AAD	IEEE 802.11ax (20MHz, MCS6, 99pc dc)	WIAN	8.55	+96%
10690	AAE	IEEE 802 11ax (20MHz, MCS7, 99pc dc)	WLAN	8 20	+96%
10691	AAR	IEEE 802 11ax (20MHz MCS8 99pc dc)	WLAN	8 25	+0.6%
10692	AAA	IEEE 802 11ax (20MHz, MCS9, 99pc dc)	WLAN	8 20	10.0 %
10693	1004	IEEE 802 11ax (20MHz, MCS10, 99pc dc)	WLAN	9.25	10.6%
10604	1000	IEEE 802 11ax (20MHz, MCS11, 00ac dc)	IN/LAN	0.23	10.0%
10605	AAA	IEEE 802 11ax (20MHz, MCS11, Sept dc)	VVLAN	0.57	19.0 %
10606	AAA	IEEE 802 11ax (40MHz, MCS0, 90pc dc)	VILAN	0.70	19.0 %
10607	AAA	IEEE 802.11ax (40MHz, MCS1, 90pc dc)	VVLAUN	8.91	± 9.0 %
10097	AAA	IEEE 002.11ax (40MHz, MCS2, 90pc dc)	WLAN	8.61	± 9.6 %
10090	AAA	IEEE 802.11ax (40MHz, MCS3, 90pc dc)	WLAN	8.89	± 9.6 %
10099	AAA	IEEE 802.11ax (40MHz, MCS4, 90pc 6c)	WLAN	8.82	± 9.6 %
10700	AAA	IEEE 802.11ax (40MHz, MCS5, 90pc 6c)	WLAN	8.73	19.6%
10701	AAA	IEEE 802.11ax (40MHz, MCS6, 90pc 6c)	WLAN	8.86	19.6%
10702	AAA	IEEE 802.11ax (40MHz, MCS7, 90pc dc)	WLAN	8.70	± 9.6 %
10703	AAA	IEEE 802.11ax (40MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10704	AAA	IEEE 802.11ax (40MHz, MCS9, 90pc dc)	WLAN	8.56	± 9.6 %
10705	AAA	TEEE 802.11ax (40MHz, MCS10, 90pc dc)	WLAN	8.69	± 9.6 %
10706	AAC	TEEE 802.11ax (40MHz, MCS11, 90pc dc)	WLAN	8.66	± 9.6 %
10/07	AAC	IEEE 802.11ax (40MHz, MCS0, 99pc dc)	WLAN	8.32	± 9.6 %
10/08	AAC	IEEE 802.11ax (40MHz, MCS1, 99pc dc)	WLAN	8.55	± 9.6 %
10709	AAC	IEEE 802.11ax (40MHz, MGS2, 99pc dc)	WLAN	8.33	± 9.6 %
10710	AAC	IEEE 802.11ax (40MHz, MCS3, 99pc dc)	WLAN	8.29	± 9.6 %
10711	AAC	IEEE 802.11ax (40MHz, MCS4, 99pc dc)	WLAN	8.39	± 9.6 %
10712	AAC	IEEE 802.11ax (40MHz, MCS5, 99pc dc)	WLAN	8.67	± 9.6 %
10713	AAC	IEEE 802.11ax (40MHz, MCS6, 99pc dc)	WLAN	8.33	± 9.6 %
10714	AAC	IEEE 802.11ax (40MHz, MCS7, 99pc dc)	WLAN	8.26	± 9.6 %
10715	AAC	IEEE 802.11ax (40MHz, MCS8, 99pc dc)	WLAN	8.45	± 9.6 %
10716	AAC	IEEE 802.11ax (40MHz, MCS9, 99pc dc)	WLAN	8.30	± 9.6 %
10717	AAC	IEEE 802.11ax (40MHz, MCS10, 99pc dc)	WLAN	8.48	±9.6 %
10718	AAC	IEEE 802.11ax (40MHz, MCS11, 99pc dc)	WLAN	8.24	± 9.6 %
10719	AAC	IEEE 802.11ax (80MHz, MCS0, 90pc dc)	WLAN	8.81	± 9.6 %
10720	AAC	IEEE 802.11ax (80MHz, MCS1, 90pc dc)	WLAN	8.87	± 9.6 %
10721	AAC	IEEE 802.11ax (80MHz, MCS2, 90pc dc)	WLAN	8.76	± 9.6 %
10722	AAC	IEEE 802.11ax (80MHz, MCS3, 90pc dc)	WLAN	8.55	± 9.6 %
10723	AAC	IEEE 802.11ax (80MHz, MCS4, 90pc dc)	WLAN	8.70	± 9.6 %
10724	AAC	IEEE 802.11ax (80MHz, MCS5, 90pc dc)	WLAN	8.90	± 9.6 %
10725	AAC	IEEE 802.11ax (80MHz, MCS6, 90pc dc)	WLAN	8.74	± 9.6 %
10726	AAC	IEEE 802.11ax (80MHz, MCS7, 90pc dc)	WLAN	8.72	± 9.6 %
10727	AAC	IEEE 802.11ax (80MHz, MCS8, 90pc dc)	WLAN	8.66	± 9.6 %
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10728	AAC	IEEE 802.11ax (80MHz, MCS9, 90pc dc)	I WI AN	8.65	+06%
10729	AAC	IEEE 802.11ax (80MHz, MCS10, 90pc dc)	WLAN	8.64	19.0 %
10730	AAC	IEEE 802.11ax (80MHz, MCS11, 90pc dc)	WLAN	8.67	+0.6%
10731	AAC	IEEE 802.11ax (80MHz, MCS0, 99oc dc)	WIAN	8.42	+0.6%
10732	AAC	IEEE 802,11ax (80MHz, MCS1, 99pc dc)	WIAN	8.46	10.6%
10733	AAC	IEEE 802.11ax (80MHz, MCS2, 99pc dc)	WLAN	8.40	+ 9.6 %
10734	AAC	IEEE 802.11ax (80MHz, MCS3, 99oc dc)	WIAN	8.25	10.0%
10735	AAC	IEEE 802.11ax (80MHz, MCS4, 99oc dc)	WIAN	9.23	19.0 %
10736	AAC	IEEE 802.11ax (80MHz, MCS5, 99oc dc)	WIAN	0.33	19.0 %
10737	AAC	IEEE 802.11ax (80MHz, MCS6, 99oc dc)	WIAN	8.36	19.0 %
10738	AAC	IEEE 802.11ax (80MHz, MCS7, 99oc dc)	WLAN	0.00	10.0%
10739	AAC	IEEE 802.11ax (80MHz, MCS8, 99pc dc)	WLAN	8 20	10.0 %
10740	AAC	IEEE 802.11ax (80MHz, MCS9, 99pc dc)	WIAN	8 49	19.0 %
10741	AAC	IEEE 802.11ax (80MHz, MCS10, 99pc dc)	WIAN	8.40	+06%
10742	AAC	IEEE 802.11ax (80MHz, MCS11, 99pc dc)	WIAN	9.40	10.0%
10743	AAC	IEEE 802.11ax (160MHz, MCS0, 90pc dc)	WIAN	0.43	19.0 %
10744	AAC	IEEE 802.11ax (160MHz_MCS1_90pc.dc)	WI AN	0.94	19.0 %
10745	AAC	IEEE 802 11ax (160MHz, MCS2, 90nc dc)	MIAN	9.10	19.0 %
10746	AAC	IEEE 802.11ax (160MHz, MCS3, 90oc dc)	WIAN	0.93	19.0 %
10747	AAC	IEEE 802.11ax (160MHz, MCS4, 90pc dc)	WIAN	9.11	19.0 %
10748	AAC	IEEE 802 11ax (160MHz, MCS5, 90oc dc)	WLAN	9.04	19.0 %
10749	AAC	IEEE 802.11ax (160MHz, MCS6, 90pc dc)	WILAN	0.93	19.0 %
10750	AAC	IEEE 802 11ax (160MHz, MCS7, 90oc dc)	WILAN	0.90	19.0 %
10751	AAC	IEEE 802 11ax (160MHz, MCS8, 90oc dc)	IN/LAN	0.79	19.0%
10752	AAC	IEEE 802 11ax (160MHz, MCS9, 90pc dc)	WILAN	0.02	19.0%
10753	AAC	IEEE 802 11ax (160MHz, MCS10, 90pc dc)	WILAN	0.00	19.0%
10754	AAC	IEEE 802 11ax (160MHz, MCS11, 90pc dc)	WLAN	9.00	19.0 %
10755	AAC	IEEE 802.11ax (160MHz, MCS0, 99oc dc)	VYLAN MO AN	0.94	19.6%
10756	AAC	IEEE 802 11ax (160MHz MCS1 90oc dc)	MAR ANI	0.04	19.0 %
10757	AAC	IEEE 802.11ax (160MHz, MCS2, 99pc dc)	WILAN	0.11	19.6%
10758	AAC	IEEE 802 11ax (160MHz, MCS3, 99pc dc)	WI AN	0.11	19.0 %
10759	AAC	IEEE 802 11ax (160MHz, MCS4, 99pc dc)	WLAN	0.09	19.0%
10760	AAC	IEEE 802 11ax (160MHz, MCS5, 99pc dc)		0.00	19.0%
10761	AAC	IEEE 802 11ax (160MHz, MCS6, 99pc dc)	WILANI	0.49	19.0 %
10762	AAC	IEEE 802.11ax (160MHz, MCS7, 99pc dc)	AVLAN	0.00	19.0%
10763	AAC	IEEE 802.11ax (180MHz, MCS8, 99pc dc)	MILAN	0.49	19.0%
10764	AAC	IEEE 802.11ax (160MHz, MCS0, 990c.dc)	WIAN	0.53	19,0%
10765	AAC	IEEE 802.11ax (160MHz, MCS10, 99pc dc)	MIAN	0.04	± 9.0 %
10766	AAC	IEEE 802.11ax (160MHz, MCS10, 550C dc)	VYLAN MO AN	8.54	± 9.6 %
10767	AAC	5G NR (CP-OEDM 1 PR 5 MHz OPSK 15 KHz)	FC NO FOL TOD	8.51	19.0%
10768	AAC	56 NR (CP OFDM, 1 RB, 3 MHz, QPSK, 15 KHz)	SG NR FRI TDD	7.99	± 9.6 %
10769	AAC	50 NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 KHz)	SG NR FRI TDD	8.01	± 9.6 %
10770	AAC	SC NR (CP.OFDM, TRB, 15 MHZ, QPSK, 15 KHZ)	SG NR FRT TOD	8.01	± 9.6 %
10771	AAC	SC NR (CP.OFDM, 1 RB, 25 MHz, CPSK, 15 KHz)	SG NR FRT TOD	8.02	± 9.6 %
10772	AAC	SC NR (CP OFDM, TRB, 25 MHz, QPSK, 15 KHz)	SG NR FRI TDD	8.02	± 9.6 %
10773	AAC	SC NR (CP-OFDM, TRB, 30 MHZ, QPSK, 15 KHZ)	5G NR FR1 TDD	8.23	± 9.6 %
10774	AAC	SO NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 KHz)	SGNR FRI TOD	8.03	± 9.6 %
10775	AAC	SG NR (CP-OFDM, FRB, 50 MITZ, QPSK, 15 KHZ)	SGNR FRI TDD	8.02	± 9.6 %
10776	AAG	SC NR (CP-OFDM, 50% RD, 5 MITZ, UPSK, 15 KHZ)	SG NK FR1 TDD	8.31	± 9.6 %
10777	AAC	SC NR (CP.OFDM, 50% RD, 10 MHZ, QPSK, 15 KHZ)	SG NR FR1 TDD	8.30	± 9.6 %
10779	AAC	SC ND (CP OFDM, 50% RD, 15 MHZ, QPSK, 15 KHZ)	SG NR FR1 TDD	8.30	± 9.6 %
10770	AAC	SC NR (CP-OFDM, 50% RB, 20 MHZ, QPSK, 15 KHZ)	5G NR FR1 TDD	8.34	± 9.6 %
10790	AAC	SC ND (CD OCDM, 50% RB, 25 MHZ, QPSK, 15 KHZ)	SG NR FR1 TDD	8.42	± 9.6 %
10794	AAC	SC NR (CP-OFDM, 50% RB, 30 MHZ, QPSK, 15 KHZ)	5G NR FR1 TDD	8.38	± 9.6 %
10792	AAC	SC NR (CP-OFDM, 50% RB, 40 MHZ, QPSK, 15 KHZ)	5G NR FR1 TDD	8.38	± 9.6 %
10702	AAC	SC ND (CD OEDU, 200% DD 5 MUL CD24 (5 ML)	5G NR FR1 TDD	8.43	± 9,6 %
10783	AAC	56 NR (CP-OFOM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TOD	8.31	± 9.6 %

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10784	AAC	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.29	± 9.6 %
10785	AAC	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10786	AAC	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10787	AAC	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	± 9.6 %
10788	AAC	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10789	AAC	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10790	AAC	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.6%
10791	AAC	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	+9.6%
10792	AAC	5G NR (CP-OFDM, 1 RB, 10 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	7.92	+96%
10793	AAC	5G NR (CP-OFDM, 1 RB, 15 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	7.95	+96%
10794	AAC	5G NR (CP-OFDM, 1 BB, 20 MHz, OPSK, 30 kHz)	5G NR FR1 TOD	7.82	+96%
10795	AAC	5G NR (CP-OFDM 1 RB 25 MHz OPSK 30 kHz)	5G NR FR1 TDD	7.84	+96%
10796	AAC	5G NR (CP-OFDM, 1 RB, 30 MHz, OPSK, 30 kHz)	5G NR FR1 TOD	7.82	+96%
10797	AAC	5G NR (CP-OEDM, 1 RB, 40 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	8.01	+96%
10798	AAC	5G NR (CP-OEDM, 1 RB, 50 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	7.89	+96%
10799	AAC	5G NR (CP-OEDM, 1 RB, 60 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	7.03	+96%
10801	AAC	5G NR (CP-OEDM 1 RB 80 MHz OPSK 30 kHz)	5G NR FR1 TDD	7.89	+96%
10802	AAC	5G NR (CP-OEDM 1 RB 90 MHz OPSK 30 kHz)	5G NR FR1 TDD	7.87	+96%
10803	AAE	5G NR (CP-OEDM 1 BB 100 MHz OPSK 30 kHz)	5G NR FR1 TOD	7.03	+96%
10805	AAD	5G NR (CP-OEDM, 50% RB, 10 MHz, OPSK, 30 kHz)	5G NR FR1 TOD	834	+96%
10806	AAD	56 NR (CP-OEDM 50% RB 15 MHz OPSK 30 kHz)	5G NR FR1 TOD	8 37	+96%
10809	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	8.34	+0.6%
10810	AAD	5G NR (CP-OEDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TOD	8.34	10.6%
10812	AAD	5C NR (CP-OFDM, 50% RB, 40 MHz, CPSK, 30 kHz)	SG NR FRI TOD	0.04	106%
10817	AAD	50 NR (CP OFDM, 30% RB, 60 MHz, GP SK, 30 KHz)	50 NR FRI TOD	0.00	19.0 %
10818	AAD	50 NR (CP-OEDM, 100% PB, 10 MHz, 0PSK, 30 KHz)	SC NR FR1 TOD	0.00	10.0 %
10810	AAD	50 NR (CP.OFDM, 100% PR, 10 MHz, CP.SK, 30 KHz)	SC NR FRI TOD	0,34	19,0 %
10820	AAD	50 NR (CP-OEDM, 100% RB, 20 MHz, QPSK, 30 KHz)	50 NR FR1 TOD	8.20	+0.6%
10821	AAD	50 NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 KHz)	5G NR FR1 TOD	9.41	10.6%
10822	AAC	5G NR (CP-OFDM, 100% RB, 20 MHz, CP SK, 30 KHz)	5G NR FR1 TOD	8.41	+0.6%
10823	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 KHz)	5G NR FR1 TOD	8.36	+0.6%
10824	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, OPSK 30 kHz)	5G NR FR1 TDD	8.30	+96%
10825	AAD	5G NR (CP-OEDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	+96%
10827	AAD	5G NR (CP-OEDM 100% RB 80 MHz OPSK 30 kHz)	5G NR FR1 TDD	8.42	+96%
10828	AAC	5G NR (CP-OEDM, 100% RB, 90 MHz, OPSK, 30 kHz)	5G NR FR1 TOD	8.43	+96%
10829	AAD	56 NR (CP-OEDM, 100% RB, 100 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	8.40	+96%
10830	AAD	5G NB (CP-OEDM 1 BB 10 MHz OPSK 60 kHz)	5G NR FR1 TDD	7.63	+96%
10831	AAD	SG NR (CP-OEDM 1 RB 15 MHz OPSK 60 kHz)	5G NR FR1 TDD	7.73	+06%
10832	AAD	50 NR (CP-OFDM, 1 RB, 20 MHz, OPSK, 60 kHz)	5G NR FR1 TDD	7.74	+06%
10833	AAD	5G NR (CP-OEDM 1 RB 25 MHz OPSK 60 kHz)	5G NR FR1 TDD	7 70	+0.6%
10834	AAD	5G NR (CP-OEDM 1 RB 30 MHz OPSK 60 kHz)	5G NR FR1 TOD	7.75	+96%
10835	AAD	5G NR (CP-OEDM 1 RB 40 MHz OPSK 60 kHz)	5G NR FR1 TDD	7.70	+0.6%
10836	AAU	SG NR (CP-OEDM 1 RB 50 MHz OPSK 60 kHz)	5G NR FR1 TDD	7.66	+0.6%
10837	AME	SC NR (CP-OFDM, 1 RB, 60 MHz, QP SK, 60 kHz)	5G NR FR1 TOD	7.68	+96%
10830	AAD	50 NR (CP-OEDM, 1 RB, 80 MHz, OPSK, 60 kHz)	5G NR FR1 TOD	7.70	+0.6%
10840	AAD	5G NR (CP-OEDM 1 RB 90 MHz OPSK 60 kHz)	5G NR FR1 TOD	7.67	+96%
10841	AAD	56 NR (CP-OEDM 1 RB 100 MHz OPSK 80 kHz)	5G NR FR1 TDD	7.71	+96%
10843	AAD	5G NR (CP-OEDM 50% RB 15 MHz OPSK 60 kHz)	5G NR FR1 TDD	8.49	+96%
10844	AAD	5G NR (CP-OEDM 50% RB 20 MHz OPSK 60 kHz)	5G NR FR1 TOD	8 34	+96%
10846	AAD	5G NR (CP-OEDM 50% RB 30 MHz OPSK 60 KHz)	5G NR FR1 TOD	8 41	+96%
10854	AAD	5G NR (CP-OFDM 100% RB 10 MHz OPSK 60 KHz)	5G NR FR1 TOD	8 34	+96%
10855	AAD	5G NR (CP-OEDM 100% RB 15 MHz OPSK 80 kHz)	5G NR FR1 TDD	95.9	+96%
10856	AAD	5G NR (CP-OEDM 100% RB 20 MHz OPSK 60 kHz)	5G NR FR1 TDD	8 37	+96%
10857	AAD	56 NR (CP-OFDM, 100% RB, 25 MHz, GPSK, 60 KHz)	5G NR FR1 TOD	8.35	+ 9.6 %
10858	AAD	5G NR (CP-OEDM, 100% RB, 30 MHz, OPSK, 60 kHz)	5G NR FR1 TOD	8.36	+96%
10859	AAD	5G NR (CP-OEDM 100% RB 40 MHz OPSK 60 kHz)	5G NR FR1 TDD	8 34	+96%
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10000	AAD	SG NR (CP-OFDM, 100% RB, 50 MHZ, QPSK, 60 KHZ)	SG NR FR1 TOD	8.41	± 9.6 %
10001	AAD	SG NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 KHz)	SG NR FR1 TOD	8.40	±9.6%
10003	AAD	SG NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 60 KHz)	SG NR FR1 TOD	8.41	± 9.6 %
10004	AAE	50 NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 KHz)	SGNR FRI TOD	8.37	± 9.0 %
10000	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 KHz)	5G NR FR1 TOD	8.41	± 9.6 %
10000	AAD	SG NR (DFT-S-OFDM, 1 RB, 100 MHZ, QPSK, 30 KHZ)	5G NR FR1 TOD	5.68	± 9.6 %
10808	AAD	5G NR (DFT-S-OFDM, 100% RB, 100 MHz, QPSK, 30 KHz)	5G NR FR1 TDD	5.89	± 9.6 %
10869	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10870	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TOD	5.86	± 9.6 %
108/1	AAD	5G NR (DFT-S-OFDM, 1 RB, 100 MHz, 16QAM, 120 KHz)	5G NR FR2 TDD	5.75	± 9.6 %
10872	AAD	5G NR (DFT-S-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	± 9.6 %
10873	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 KHz)	5G NR FR2 TDD	6.61	± 9.6 %
108/4	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10875	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10876	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TOD	8.39	± 9.6 %
10877	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	± 9.6 %
10878	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10879	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	± 9.6 %
10880	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	± 9.6 %
10881	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10882	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	± 9.6 %
10883	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	± 9.6 %
10884	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	± 9.6 %
10885	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10886	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10887	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10888	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	± 9.6 %
10889	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	± 9.6 %
10890	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8,40	± 9.6 %
10891	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8,13	± 9.6 %
10892	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10897	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	± 9.6 %
10898	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10899	AAD	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10900	AAD	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10901	AAD	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10902	AAD	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10903	AAD	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10904	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10905	AAD	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10906	AAD	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10907	AAD	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	± 9.6 %
10908	AAD	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10909	AAD	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	± 9.6 %
10910	AAD	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10911	AAD	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10912	AAD	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10913	AAD	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10914	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	± 9.6 %
10915	AAD	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10916	AAD	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10917	AAD	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10918	AAD	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
10919	AAD	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, OPSK, 30 kHz)	5G NR FR1 TOD	5.86	±9.6%
10920	AAD	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10921	AAD	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, OPSK, 30 kHz)	5G NR FR1 TDD	5.84	+9.6%
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March 17, 2021

10922	AAD	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	± 9.6 %
10923	AAD	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10924	AAD	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10925	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	± 9.6 %
10926	AAD	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10927	AAD	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10928	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10929	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10930	AAD	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10931	AAD	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10932	AAB	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10933	AAA	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10934	AAA	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10935	AAA	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10936	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10937	AAB	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	± 9.6 %
10938	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10939	AAB	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	± 9.6 %
10940	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	± 9.6 %
10941	AAB	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.6 %
10942	AAB	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	+9.6%
10943	AAB	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	+9.6%
10944	AAB	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	+9.6%
10945	AAB	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	+96%
10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	+9.6%
10947	AAB	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	+9.6%
10948	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	+96%
10949	AAB	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	+9.6%
10950	AAB	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	+9.6%
10951	AAB	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	+9.6%
10952	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	+9.6%
10953	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	+9.6%
10954	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	+9.6%
10955	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-OAM, 15 kHz)	5G NR FR1 FDD	8.42	+96%
10956	AAR	5G NR DL (CP-OFDM, TM 3 1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8 14	+96%
10957	AAC	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-OAM, 30 kHz)	5G NR FR1 FDD	8.31	+96%
10958	AAR	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	+9.6%
10959	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	+96%
10960	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-OAM, 15 kHz)	5G NR FR1 TOD	9.32	+96%
10961	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	+96%
10962	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-OAM, 15 kHz)	5G NR FR1 TOD	9.40	+96%
10963	AAR	5G NR DL (CP-OEDM, TM 3 1, 20 MHz, 64-OAM, 15 kHz)	5G NR FR1 TOD	9.55	+96%
10964	AAR	5G NR DL (CP-OEDM, TM 3.1, 5 MHz, 64-OAM, 30 kHz)	5G NR FR1 TOD	9.29	+96%
10965	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-OAM, 30 kHz)	5G NR FR1 TDD	9.37	+96%
10966	AAR	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-OAM, 30 kHz)	5G NR FR1 TDD	9.55	+96%
10967	AAR	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-OAM, 30 kHz)	5G NR FR1 TDD	9.42	+96%
10968	AAB	5G NR DL (CP-OFDM, TM 3.1, 100 MHz 64-OAM, 30 kHz)	5G NR FR1 TOD	9.40	+96%
10072	449	SC NP (CD.OEDM 1 PR 20 MHz OBCK 16 HUS)	5G NR FR1 TDD	11 59	+96%
10072	AAD	SC ND (DET.C.OEDM 1 DD 100 MU- ODEV 20 MU-	5G NR FR1 TDD	9.06	+96%
10074	AAD	SC ND (CD.OEDM 100% DD 100 MHz, QPSN, 30 KHZ)	5G NR FRI TOD	10.28	406%
100/4	MO	50 NR (0F-0FDM, 100% RD, 100 MHZ, 250-QAM, 30 KHZ)	0011111100	10.20	1 5.0 70

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

12.5. Calibration Certificate for Dipole

This sub-section contains Cal Certificates for Dipoles, and is not included in the total number of pages for this report.

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Checked 26/10/20

CCREI

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



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Schweizerischer Kalibrierdienst Service suisse d'étalonnage

Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

UL UK Client

Certificate No: D2450V2-725_Oct20

Object	D2450V2 - SN:7	25	
Calibration procedure(s)	QA CAL-05.v11 Calibration Proce	edure for SAR Validation Sources	s between 0.7-3 GHz
Calibration date:	October 07, 2020)	
This calibration certificate docume	nts the traceability to nat	ional standards, which realize the physical un	its of measurements (SI).
The measurements and the uncert	ainties with confidence p	probability are given on the following pages an	nd are part of the certificate.
All calibrations have been conduct	ed in the closed laborato	ry facility: environment temperature (22 \pm 3)°	C and humidity < 70%.
Calibration Equipment used (M&TE	E critical for calibration)		
² rimary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Primary Standards Power meter NRP	ID # SN: 104778	Cal Date (Certificate No.) 01-Apr-20 (No. 217-03100/03101)	Scheduled Calibration Apr-21
rimary Standards ower meter NRP ower sensor NRP-Z91	ID # SN: 104778 SN: 103244	Cal Date (Certificate No.) 01-Apr-20 (No. 217-03100/03101) 01-Apr-20 (No. 217-03100)	Scheduled Calibration Apr-21 Apr-21
rimary Standards 'ower meter NRP ower sensor NRP-Z91 ower sensor NRP-Z91	ID # SN: 104778 SN: 103244 SN: 103245	Cal Date (Certificate No.) 01-Apr-20 (No. 217-03100/03101) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03101)	Scheduled Calibration Apr-21 Apr-21 Apr-21
Primary Standards 'ower meter NRP 'ower sensor NRP-Z91 'ower sensor NRP-Z91 leference 20 dB Attenuator	ID # SN: 104778 SN: 103244 SN: 103245 SN: BH9394 (20k)	Cal Date (Certificate No.) 01-Apr-20 (No. 217-03100/03101) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03101) 31-Mar-20 (No. 217-03106)	Scheduled Calibration Apr-21 Apr-21 Apr-21 Apr-21
Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismatch combination	ID # SN: 104778 SN: 103244 SN: 103245 SN: BH9394 (20k) SN: 310982 / 06327	Cal Date (Certificate No.) 01-Apr-20 (No. 217-03100/03101) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03101) 31-Mar-20 (No. 217-03106) 31-Mar-20 (No. 217-03104)	Scheduled Calibration Apr-21 Apr-21 Apr-21 Apr-21 Apr-21
Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator Fype-N mismatch combination Reference Probe EX3DV4	ID # SN: 104778 SN: 103244 SN: 103245 SN: BH9394 (20k) SN: 310982 / 06327 SN: 7405	Cal Date (Certificate No.) 01-Apr-20 (No. 217-03100/03101) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03101) 31-Mar-20 (No. 217-03106) 31-Mar-20 (No. 217-03104) 29-Jun-20 (No. EX3-7405_Jun20)	Scheduled Calibration Apr-21 Apr-21 Apr-21 Apr-21 Apr-21 Jun-21
Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator Fype-N mismatch combination Reference Probe EX3DV4 DAE4	ID # SN: 104778 SN: 103244 SN: 103245 SN: BH9394 (20k) SN: 310982 / 06327 SN: 7405 SN: 601	Cal Date (Certificate No.) 01-Apr-20 (No. 217-03100/03101) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03101) 31-Mar-20 (No. 217-03106) 31-Mar-20 (No. 217-03104) 29-Jun-20 (No. EX3-7405_Jun20) 27-Dec-19 (No. DAE4-601_Dec19)	Scheduled Calibration Apr-21 Apr-21 Apr-21 Apr-21 Apr-21 Jun-21 Dec-20
Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards	ID # SN: 104778 SN: 103244 SN: 103245 SN: BH9394 (20k) SN: 310982 / 06327 SN: 7405 SN: 601 ID #	Cal Date (Certificate No.) 01-Apr-20 (No. 217-03100/03101) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03101) 31-Mar-20 (No. 217-03106) 31-Mar-20 (No. 217-03104) 29-Jun-20 (No. EX3-7405_Jun20) 27-Dec-19 (No. DAE4-601_Dec19) Check Date (in house)	Scheduled Calibration Apr-21 Apr-21 Apr-21 Apr-21 Apr-21 Jun-21 Dec-20 Scheduled Check
Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards Power meter E4419B	ID # SN: 104778 SN: 103244 SN: 103245 SN: BH9394 (20k) SN: 310982 / 06327 SN: 7405 SN: 601 ID # SN: GB39512475	Cal Date (Certificate No.) 01-Apr-20 (No. 217-03100/03101) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03101) 31-Mar-20 (No. 217-03106) 31-Mar-20 (No. 217-03104) 29-Jun-20 (No. EX3-7405_Jun20) 27-Dec-19 (No. DAE4-601_Dec19) Check Date (in house) 30-Oct-14 (in house check Oct-20)	Scheduled Calibration Apr-21 Apr-21 Apr-21 Apr-21 Apr-21 Jun-21 Dec-20 Scheduled Check In house check: Oct-22
Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards ³ ower meter E4419B ³ ower sensor HP 8481A	ID # SN: 104778 SN: 103244 SN: 103245 SN: BH9394 (20k) SN: 310982 / 06327 SN: 7405 SN: 601 ID # SN: GB39512475 SN: US37292783	Cal Date (Certificate No.) 01-Apr-20 (No. 217-03100/03101) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03101) 31-Mar-20 (No. 217-03106) 31-Mar-20 (No. 217-03104) 29-Jun-20 (No. EX3-7405_Jun20) 27-Dec-19 (No. DAE4-601_Dec19) Check Date (in house) 30-Oct-14 (in house check Oct-20) 07-Oct-15 (in house check Oct-20)	Scheduled Calibration Apr-21 Apr-21 Apr-21 Apr-21 Apr-21 Jun-21 Dec-20 Scheduled Check In house check: Oct-22 In house check: Oct-22
Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator Type-N mismatch combination Reference Probe EX3DV4 DAE4 Secondary Standards Power meter E4419B Power sensor HP 8481A Power sensor HP 8481A	ID # SN: 104778 SN: 103244 SN: 103245 SN: BH9394 (20k) SN: 310982 / 06327 SN: 7405 SN: 601 ID # SN: GB39512475 SN: US37292783 SN: MY41092317	Cal Date (Certificate No.) 01-Apr-20 (No. 217-03100/03101) 01-Apr-20 (No. 217-03100) 01-Apr-20 (No. 217-03101) 31-Mar-20 (No. 217-03106) 31-Mar-20 (No. 217-03104) 29-Jun-20 (No. EX3-7405_Jun20) 27-Dec-19 (No. DAE4-601_Dec19) Check Date (in house) 30-Oct-14 (in house check Oct-20) 07-Oct-15 (in house check Oct-20)	Scheduled Calibration Apr-21 Apr-21 Apr-21 Apr-21 Jun-21 Dec-20 Scheduled Check In house check: Oct-22 In house check: Oct-22 In house check: Oct-22
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Calibration Laboratory of

Glossary:

TSL

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





Schweizerischer Kalibrierdienst

S Service suisse d'étalonnage С

Servizio svizzero di taratura

S **Swiss Calibration Service**

Accredited by the Swiss Accreditation Service (SAS) The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates Accreditation No.: SCS 0108

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

Calibration is Performed According to the Following Standards:

tissue simulating liquid

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

Additional Documentation:

e) DASY4/5 System Handbook

Methods Applied and Interpretation of Parameters:

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

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

Measurement Conditions

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

DASY Version	DASY5	V52.10.4
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	38.9 ± 6 %	1.87 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	13.0 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	51.0 W/kg ± 17.0 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	250 mW input power	6.06 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	24.0 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	52.9 Ω + 9.4 jΩ	
Return Loss	- 20.5 dB	

General Antenna Parameters and Design

Electrical Delay (one direction)	1.154 ns	
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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

DASY5 Validation Report for Head TSL

Date: 07.10.2020

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:725

Communication System: UID 0 - CW; Frequency: 2450 MHz Medium parameters used: f = 2450 MHz; $\sigma = 1.87$ S/m; $\varepsilon_r = 38.9$; $\rho = 1000$ kg/m³ Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7405; ConvF(7.81, 7.81, 7.81) @ 2450 MHz; Calibrated: 29.06.2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 27.12.2019
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

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

Measurement grid: dx=5mm, dy=5mm, dz=5mmReference Value = 110.3 V/m; Power Drift = -0.08 dB Peak SAR (extrapolated) = 26.4 W/kg **SAR(1 g) = 13 W/kg; SAR(10 g) = 6.06 W/kg** Smallest distance from peaks to all points 3 dB below = 9 mm Ratio of SAR at M2 to SAR at M1 = 50.7% Maximum value of SAR (measured) = 20.6 W/kg



Impedance Measurement Plot for Head TSL



12.6. Tissues-Equivalent Media Recipes

The SPEAG Broadband Tissue Simulation Liquid HBBL600-6000V6 has been used for Head and Body testing. The composition of this fluid is undisclosed and proprietary to SPEAG.

Visual inspection is made to ensure air bubbles are not trapped during the mixing process. The mixture is calibrated to obtain proper dielectric constant (permittivity) and conductivity of the tissue.

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