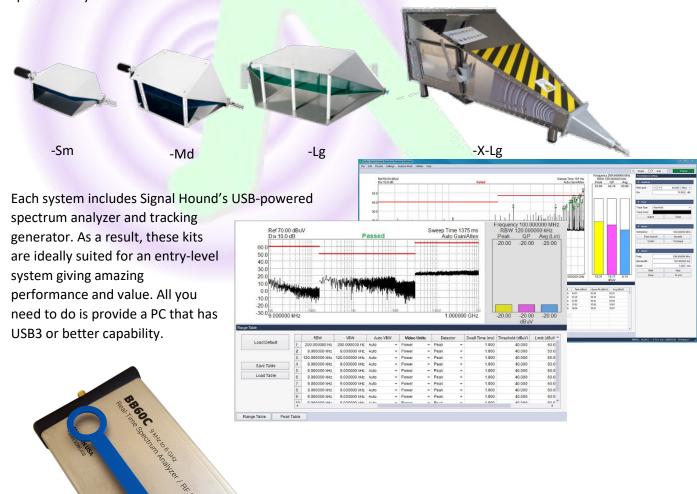


AB-Precompliant Test Kits

Absolute EMC has designed low-cost pre-compliance systems to meet a wide range of RF emissions and immunity needs. Some form of pre-complaint testing is a must for any company that needs to demonstrate their product for EMC compliance. This enables companies to be responsive when issues happen and to also be proactive before going to the lab to better your chances of passing the first time. Each system has a selection of tools for emissions and immunity, a spectrum analyzer, and a tracking generator for measuring emissions and generating a signal for immunity. Each kit includes nearfield sniffer probes, current probes, TEM/GTEM, LISN, and antennas. Including pre-amps for measuring lower level emissions and modulation amplifiers to drive immunity levels with AM and pulse signals. All interconnecting coax, adaptors, and attenuators are included. Each system comes with phone and email consulting support on uses and setups.

There are 4 different TEM/GTEM sized systems for testing up to 4.4 GHz. The Sm system can test board-level products, whereas the -X-Lg can test shoebox-size products. Then there is a Deluxe offering of each size which includes testing up to 6GHz with a real-time spectrum analyzer to improve measurement speeds vastly.





Spectrum Analyzer Specifications

Feature	USB-SA44B (standard)	BB60C (Deluxe)
Frequency Range	1 Hz to 4.4 GHz	9 kHz to 6.0 GHz
Streaming calibrated I/Q Data	250 kHz IF bandwidth, amplitude corrected	250 kHz to 27 MHz of selectable IF bandwidth, amplitude corrected
Amplitude	+10dBm to Displayed Average Noise Level (DANL)	+10 dBm to Displayed Average Noise Level (DANL)
Amplitude Accuracy	±1.5dB (0dBm to DANL) ±2.0dB (+10dBm to >0dBm)	±2.0 dB (Flat-top Windowing)
Dynamic Range	-151 dBm to +10 dBm	-158 dBm to +10 dBm
Resolution bandwidths (RBW)	0.1 Hz to 250 kHz and 5 MHz	10 Hz to 10 MHz
Image / Spurious Performance	Unspecified, via software filtering	< –50 dBc, via hardware filtering
Sweep Speed	140 MHz/sec	24 GHz/sec
Device Weight	0.64 lb. (0.29 kg)	1.10 lbs. (0.50 kg)
Device Size	7.7" x 3.19" x 1.19"	8.63" x 3.19" x 1.19"
Device Size	(196mm x 81mm x 30mm)	(219mm x 81mm x 30mm)
Tracking Generator Compatible?	Yes, with all Signal Hound TG-model devices	Yes, with all Signal Hound TG-model devices
System Requirements	Windows® 7, Windows® 8, Windows® 10 Minimum of an Intel® Atom™ N2600 or Intel® Core™ i3 processor, one USB 2.0 port	Windows® 7, Windows® 8, Windows® 10 Intel® i7, 3rd generation or later with a quad- core processor, one USB 3.0 port, and one adjacent USB 2.0 or USB 3.0 port
	USB-SA44B Horse sign Special Visit Special Magneting Servers Special Visit Special Magneting Servers Special Visit Special S	BB60C stressore Stad Line Every in Angron / 8th Houseke

Tracking Generator Specifications

Feature	USB-TG44A (standard)	USB-TG124A (Deluxe)
Frequency Range	10 Hz to 4.4 GHz	100 kHz to 12.4 GHz
Step sizes:	19 selectable step sizes from 10 Hz to 10 MHz	19 selectable step sizes from <4 GHz: 10 Hz to 10 MHz steps >4 GHz: 100 Hz to 10 MHz steps
Sweep Speed	up to 700 frequency/sec	up to 700 frequency/sec
Amplitude range:	-30 to -10 dBm	-30 dBm to -12 dBm
Amplitude steps:	1 dB	1 dB
Harmonics:	Typically < -10dBc	Typically < -10dBc
Device Weight	0.6 lbs (.27 kg)	0.68 lbs (.3 kg)
Device Size	7.7" x 3.19" x 1.19" (196mm x 81mm x 30mm)	7.7" x 3.19" x 1.19" (196mm x 81mm x 30mm)
System Requirements	Windows® 7, 8, or 10 operating systems. You must have at least 1GB of free disc space, 1GB of RAM, one USB 2.0 port, and a 2 GHz dual-core processor.	Windows® 7, 8, or 10 operating systems. You must have at least 1GB of free disc space, 1GB of RAM, one USB 2.0 port, and a 2 GHz dual-core processor.
	USB-TG44A THE MADE	USB-TG124A 10 Mar 12 A COLUMN



AB-Precompliant Test Kits Equipment

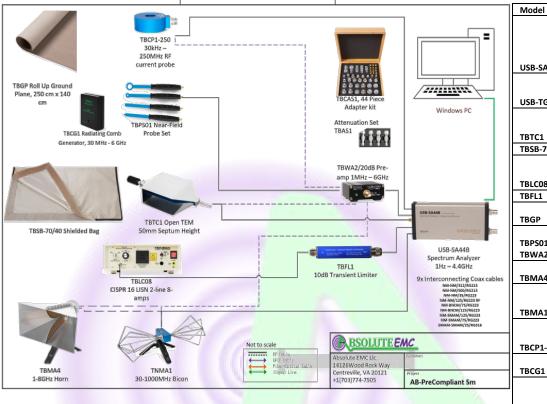
			ו-טו	100	.011	ibii	uiit	10.	st Kits Equipment
AB-Precompliant Test Kits	-Sm	PM-	-Lg	-X-Lg	-Deluxe Sm	-Deluxe Md	-Deluxe Lg	-Deluxe X-Lg	Description
USB-SA44B	Х	Х	Х	Χ					4.4 GHz Spectrum analyzer
USB-TG44A	Х	Х	Х	Х					4.4 GHz Tracking Generator
BB60C					Х	Χ	Χ	_	6 GHz Real-Time Spec-An
USB-TG124A					Х	Х	Х	_	6+GHz Tracking Generator
Spike analyzer software	Х	Χ	Χ	Χ	Х	Х	Х		Measurement Software
	v								TEM Cell 50mm Septum 3 GHz
TBTC1	Х				Х				EUT test volume : 6.3 cm x 4.3 cm x 2 cm (1/3 avalible area)
		х				Х			TEM Cell 100mm Septum 800 MHz
ТВТС2		^				^			EUT test volume: 7.6 cm x 9.3 cm x 3.3 cm (1/3 avalible area)
			Х				Х		TEM Cell 150mm Septum 700 MHz
ТВТСЗ									EUT test volume: 12 cm x 16 cm x 5 cm (1/3 avalible area)
CTEM 250 A 5				Х				Х	GTEM Cell 250mm Septum 20 GHz
GTEM 250 A-F					\ \				EUT test volume 20 cm x 20 cm x 15 cm
TBSB-70/40	Χ				Χ				Shield bag 70x40cm
TBSB-105/60	-	Х				Χ			Shield bag 105x60cm
TBST120/60/60/2-B			X				Х		Shield Tent 120x60x60cm
TBLC08	Χ	Х	Х	Х					CISPR 16 LISN 8 amps, 50µH, 30MHz
TBL5016-2					Х	Х	X		CISPR 16 LISN 16 amps, 50μH, 30MHz
TBFL1	Х	X	Х	Х	Χ	Х	Χ		10dB Transient limiter
TBCP1-250	Χ	Х	Χ	Х					Current probe 250MHz
TBCP2-750					Х	Х	Х		Clamp-on Current probe 750MHz
TBGP	Х	Х	Х	Х	Х	Χ	Χ		Role up ground plane 250x140cm
TBPS01-TBWA2/20dB	Χ	Х	Х	Χ					Near Field probes with 20dB Pre-amp
TBPS01-TBWA2/40dB					Х	Х	Х		Near Field probes with 40dB Pre-amp
TBMA4	Х	Х	Х	Х	Х	Х	Х		Double Ridge Horn Antenna 1-8GHz
TBMA1	Χ	Χ	Χ	Χ	Х	Х	Х		Mini Biconical Antenna 30-1000MHz
TBTP1					Х	Х	Х		Collapsible Tripod
TBCG1	Х	Χ	Χ	Χ	Χ	Χ	Χ		6GHz Comb Generator
TBMDA1	Χ								Modulated amplifier, 25M-3GHz, 9dBm
TBMDA2		Χ	Χ		Χ	Χ	Χ		Modulated amplifier, 10M-1.5GHz,27dBm
TBMDA3				Χ					Modulated amplifier, 10M-1GHz, 20W
TBMDA4B				Χ				Χ	Modulated amplifier, 10k-75MHz, 20W
TBCAS1	Χ	Х	Х	Χ	Χ	Χ	Χ		44pc Coax adaptors
TBAS1	Χ	Χ	Χ	Х		Х	Х	Х	2W Attenuator set
TBAS2					Χ	Χ	Х		SMA Attenuator/termination set
TBAS3					Χ	Χ	Χ	_	5W Attenuator Set
NM-NM/312/RG213	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Х	312cm Coax N-N
NM-NM/500/RG213	Χ	Χ	Χ	Χ	Χ	Χ	Χ		500cm Coax N-N
NM-NM/35/RG223	Χ	Χ	Х	Х	Х	Х	Х		35cm Coax N-N
NM-NM/125/RG223 RF	Χ	Χ	Χ	Χ	Х	Χ	Х	Х	125cm Coax N-N
NM-BNCM/75/RG223	Χ	Х	Х	Х	Х	Х	Х	Х	75cm Coax N-BNC
NM-BNCM/125/RG223	Χ	Х	Х	Х	Х	Х	Х	Х	125cm Coax N-BNC
NM-SMAM/125/RG223	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	125cm Coax N-SMA
NM-SMAM/75/RG223	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	75cm Coax N-SMA
SMAM-SMAM/25/RG316	Χ	Χ	Χ	Χ	Х	Χ	Χ	Χ	25cm Coax SMA-SMA
TBCH1					Χ	Χ	Χ	Χ	Wall Mount Cable holder
Setup and testing support	Χ	Х	Х	Х	Х	Х	Х	Χ	2 year online and phone support
	_	_	_	_	_	_			· · · · · · · · · · · · · · · · · · ·

Please refer to each items spec sheet for further information

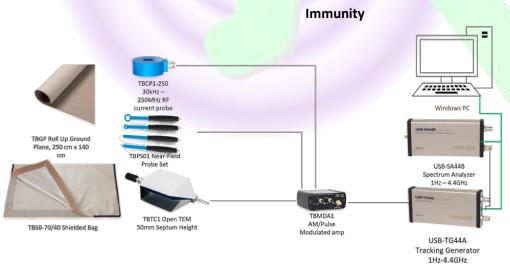


AB-Precompliant-Sm Diagram

Emissions



Model	Description
	Spectrum Analyzer 1 Hz to
	4.4 GHz
	Resolution bandwidths
	(RBW) of 0.1 Hz to 250 kHz
USB-SA44B	and 5 MHz (SMA)
	10 Hz to 4.4 GHz tracking
	generator which works with
LICE TOMA	
USB-TG44A	your USB-SA44(B)
	Open TEM Cell for EMC Pre-
	Compliance Testing, 50mm
TBTC1	Septum, (Type-N)
TBSB-70/40	Shielded Bags 70 cm x 40 cm
	50uH Line Impedance
	Stabilization Network 8
TBLC08	amps LISN CISPR 16, (BNC)
TBFL1	Transient Limiter, (Type-N)
	Roll Up Ground Plane, 250
TBGP	cm x 140 cm
	EMC Near-field Probe Set +
TRDC01	
TBPS01-	20dB Wideband Amplifier,
TBWA2/20dB	(BNC)
	Double Ridge Horn Antenna,
TBMA4	1 GHz – 8 GHz
	small, lightweight, wideband
	biconical measurement
TBMA1	antenna, 30 MHz – 1000MHz
	25mm Fixed Aperture RF
	Current Monitoring Probes,
TBCP1-250	up to 250 MHz, (Type-N)
	Radiating Comb Generator,
TBCG1	30 MHz - 6 GHz
1001	Modulated Wideband Driver
1	
	Amplifier, >22dBm , CW,
TDNADAA	1kHz 80% AM, 1kHz 50%DC
TBMDA1	Pulse, 217Hz 12.5%DC pulse
	Coaxial Adapter Set, 44
A.	pieces of the most common
TBCAS1	50 Ohm coaxial adapters
100	2W 3GHz N RF Attenuator
30.	Set
1000	3dB, 6dB, 10dB, 20dB N
TBAS1	connector, 3 GHz, 2W
NM-	RF cable, N-Male to N-Male
NM/312/RG213	cable, 312 cm, RG213/U
NM-	RF cable, N-Male to N-Male
NM/500/RG213	cable, 500 cm, RG213/U
NM-	RF cable, N-Male to N-Male
NM/35/RG223	cable, 35 cm, RG223/U
NM-	RF cable, N-Male to N-Male
NM/125/RG223 RF	cable, 125 cm, RG223/U
	, , , , ,
NM-	RF cable, N-Male to BNC-
BNCM/75/RG223	Male, 75 cm, RG223/U
NM-	RF cable, N-Male to BNC-
BNCM/125/RG223	Male, 125 cm, RG223/U
NM-	RF cable, N-Male to SMA-
SMAM/125/RG223	Male, 125 cm, RG223/U
NM-	RF cable, N-Male to SMA-
NM-	*
NM- SMAM/75/RG223	Male, 75 cm, RG223/U
NM-	*



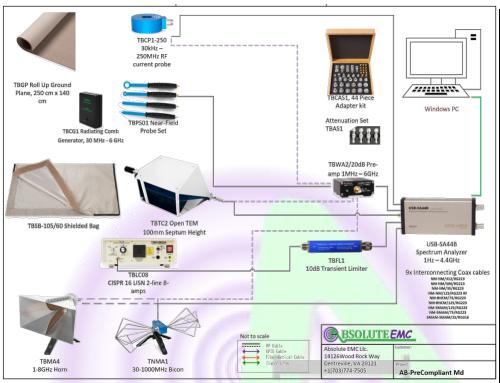
Test kits can be altered or added to. Please call us to discuss your needs.

Remote support



AB-Precompliant-Md Diagram

Emissions



ing Coax cables	IDWAZ/Z
00/RG213 55/RG223 5/RG223 RF /75/RG223 125/RG223	ТВМА4
125/RG223 /125/RG223 /75/RG223 M/25/RG316	
	TBMA1
	TDCD4 3F
nt Md	TBCP1-25
YA,	TBCG1
	TBMDA2
┶╗═╽	
311	TBCAS1
	100
71	100
<u> </u>	TBAS1
PC	NM-
	NM/312/
	NM-
Hodrer -	NM/500/
	NM-
B ilyzer	NM/35/R
Hz	NM- NM/125/
	NM-
ning S	BNCM/75
	NM-
A	BNCM/12
erator Hz	NM-
12	SMAM/1
eds.	NM- SMAM/7

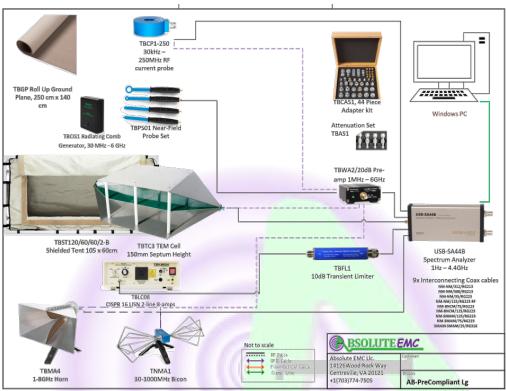
		Immunity		L
	TBCP1-250 30kHz – 250MHz RF current probe		Windows PC	
TBGP Roll Up Ground Plane, 250 cm x 140 cm	TBPS01 Near-Field Probe Set TBTC2 Open TEM 100mm Septum Height	TBMDA2 AM/Pulse Modulated amp	USB-SA44B Spectrum Analyzer 1Hz – 4.4GHz USB-TG44A	
			Tracking Generator	H

Test kits can be altered or added to. Please call us to discuss your needs



AB-Precompliant-Lg Diagram

Emissions



		Immunity		
TBGP Roll Up Ground Plane, 250 cm x 140	TBCP1-250 30kHz = \$50MHz RF urrent probe		Windows PC	
Cem 18	Probe Set	TBMDA2 AM/Pulse Modulated amp	USB-SA44B Spectrum Analyzer 1Hz – 4.4GHz	_
	TBTC3 TEM Cell mm Septum Height		USB-TG44A Tracking Generator 1Hz-4.4GHz	

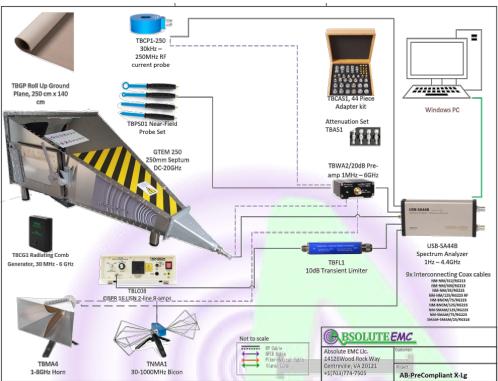
Test kits can be altered or added to. Please call us to discuss your needs.

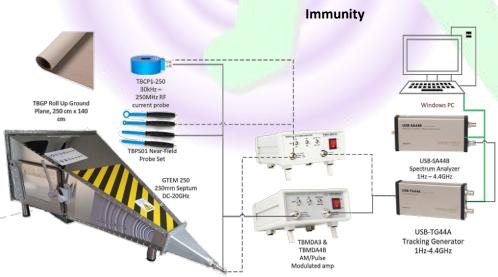
Model	Description
	Spectrum Analyzer 1 Hz to
	4.4 GHz
	Resolution bandwidths
	(RBW) of 0.1 Hz to 250 kHz
USB-SA44B	and 5 MHz (SMA)
	10 Hz to 4.4 GHz tracking
	generator which works with
USB-TG44A	your USB-SA44(B)
	Open TEM Cell for EMC Pre-
	Compliance Testing, 150mm
ТВТСЗ	Septum, (Type-N)
TBST120/60/60/2-	Shielded Tent 105 cm x 60
В	cm
	50uH Line Impedance
	Stabilization Network 8
TBLC08	amps LISN CISPR 16, (BNC)
TBFL1	Transient Limiter, (Type-N)
	Roll Up Ground Plane, 124
TBGP	cm x 64 cm x 60 cm
	EMC Near-field Probe Set +
TBPS01-	20dB Wideband Amplifier,
TBWA2/20dB	(BNC)
	Double Ridge Horn Antenna,
TBMA4	1 GHz – 8 GHz
	small, lightweight, wideband
	biconical measurement
TBMA1	antenna, 30 MHz – 1000MHz
	25mm Fixed Aperture RF
	Current Monitoring Probes,
TBCP1-250	up to 250 MHz, (Type-N)
	Radiating Comb Generator,
TBCG1	30 MHz - 6 GHz
	Modulated Wideband Driver
	Amplifier, >27dBm , CW,
	1kHz 80% AM, 1kHz 50%DC
TBMDA2	Pulse, 217Hz 12.5%DC pulse
h.	Coaxial Adapter Set, 44
	pieces of the most common
TBCAS1	50 Ohm coaxial adapters
- 25.	2W 3GHz N RF Attenuator
	Set 2dp 4dp 20dp N
TDAC1	3dB, 6dB, 10dB, 20dB N
TBAS1 NM-	connector, 3 GHz, 2W RF cable, N-Male to N-Male
NM/312/RG213 NM-	cable, 312 cm, RG213/U RF cable, N-Male to N-Male
	cable, 500 cm, RG213/U
NM/500/RG213 NM-	RF cable, N-Male to N-Male
NM/35/RG223	
	cable, 35 cm, RG223/U
NM- NM/125/RG223 RF	RF cable, N-Male to N-Male cable, 125 cm, RG223/U
NM-	RF cable, N-Male to BNC-
BNCM/75/RG223	Male, 75 cm, RG223/U
NM-	RF cable, N-Male to BNC-
BNCM/125/RG223	Male, 125 cm, RG223/U
NM-	RF cable, N-Male to SMA-
SMAM/125/RG223	Male, 125 cm, RG223/U
NM-	RF cable, N-Male to SMA-
SMAM/75/RG223	Male, 75 cm, RG223/U
SMAM-	RF cable, SMA-Male to
SMAM/25/RG316	SMA-Male, 25cm, RG316/U
5/4/A/4/, 25/ NG310	Remote support



AB-Precompliant-X-Lg Diagram

Emissions





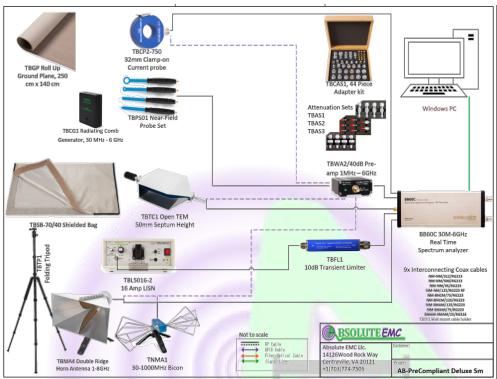
Test kits can be altered or added to. Please call us to discuss your needs.

Model	Description
	Spectrum Analyzer 1 Hz to
	4.4 GHz
	Resolution bandwidths
	(RBW) of 0.1 Hz to 250 kHz
USB-SA44B	and 5 MHz (SMA)
	10 Hz to 4.4 GHz tracking
	generator which works with
USB-TG44A	your USB-SA44(B)
	GTEM 250 Ferrite,
	Assembled, 250mm Septum
	8cm / 3,15"Flat or 15cm/6"
GTEM 250 A-F	hybrid pyramid +ferrite
	50uH Line Impedance
	Stabilization Network 8
TBLC08	amps LISN CISPR 16, (BNC)
TBFL1	Transient Limiter, (Type-N)
	Roll Up Ground Plane, 124
TBGP	cm x 64 cm x 60 cm
	EMC Near-field Probe Set +
TBPS01-	20dB Wideband Amplifier,
TBWA2/20dB	(BNC)
	25mm Fixed Aperture RF
TDCD1 350	Current Monitoring Probes,
TBCP1-250	up to 250 MHz, (Type-N)
TDMAA	Double Ridge Horn Antenna,
TBMA4	1 GHz – 8 GHz
	small, lightweight, wideband
TDMA1	biconical measurement antenna, 30 MHz – 1000MHz
TBMA1	·
TBCG1	Radiating Comb Generator,
IBCGI	30 MHz - 6 GHz Modulated Wideband Driver
	Amplifier, 20W , CW, 1kHz
	80% AM, 1kHz 50%DC Pulse,
TBMDA3	217Hz 12.5%DC pulse
	Modulated Wideband Driver
b.	Amplifier, 20W , CW, 1kHz
Eb.	80% AM, 1kHz 50%DC Pulse,
TBMDA4B	217Hz 12.5%DC pulse
	Coaxial Adapter Set, 44
35.	pieces of the most common
TBCAS1	50 Ohm coaxial adapters
784.	2W 3GHz N RF Attenuator
	Set
70.00	3dB, 6dB, 10dB, 20dB N
TBAS1	connector, 3 GHz, 2W
NM-	RF cable, N-Male to N-Male
NM/312/RG213	cable, 312 cm, RG213/U
NM-	RF cable, N-Male to N-Male
NM/500/RG213	cable, 500 cm, RG213/U
NM/500/RG213 NM-	RF cable, N-Male to N-Male
NM/500/RG213 NM- NM/35/RG223	RF cable, N-Male to N-Male cable, 35 cm, RG223/U
NM/500/RG213 NM- NM/35/RG223 NM-	RF cable, N-Male to N-Male cable, 35 cm, RG223/U RF cable, N-Male to N-Male
NM/500/RG213 NM- NM/35/RG223 NM- NM/125/RG223 RF	RF cable, N-Male to N-Male cable, 35 cm, RG223/U RF cable, N-Male to N-Male cable, 125 cm, RG223/U
NM/500/RG213 NM- NM/35/RG223 NM- NM/125/RG223 RF NM-	RF cable, N-Male to N-Male cable, 35 cm, RG223/U RF cable, N-Male to N-Male cable, 125 cm, RG223/U RF cable, N-Male to BNC-
NM/500/RG213 NM- NM/35/RG223 NM- NM/125/RG223 RF NM- BNCM/75/RG223	RF cable, N-Male to N-Male cable, 35 cm, RG223/U RF cable, N-Male to N-Male cable, 125 cm, RG223/U RF cable, N-Male to BNC- Male, 75 cm, RG223/U
NM/500/RG213 NM- NM/35/RG223 NM- NM/125/RG223 RF NM- BNCM/75/RG223 NM-	RF cable, N-Male to N-Male cable, 35 cm, RG223/U RF cable, N-Male to N-Male cable, 125 cm, RG223/U RF cable, N-Male to BNC- Male, 75 cm, RG223/U RF cable, N-Male to BNC-
NM/500/RG213 NM- NM/35/RG223 NM- NM/125/RG223 RF NM- BNCM/75/RG223 NM- BNCM/125/RG223	RF cable, N-Male to N-Male cable, 35 cm, RG223/U RF cable, N-Male to N-Male cable, 125 cm, RG223/U RF cable, N-Male to BNC- Male, 75 cm, RG223/U RF cable, N-Male to BNC- Male, 125 cm, RG223/U
NM/500/RG213 NM- NM/35/RG223 NM- NM/125/RG223 RF NM- BNCM/75/RG223 NM- BNCM/125/RG223 NM-	RF cable, N-Male to N-Male cable, 35 cm, RG223/U RF cable, N-Male to N-Male cable, 125 cm, RG223/U RF cable, N-Male to BNC- Male, 75 cm, RG223/U RF cable, N-Male to BNC- Male, 125 cm, RG223/U RF cable, N-Male to SMA-
NM/500/RG213 NM- NM/35/RG223 NM- NM/125/RG223 RF NM- BNCM/75/RG223 NM- BNCM/125/RG223 NM- SMAM/125/RG223	RF cable, N-Male to N-Male cable, 35 cm, RG223/U RF cable, N-Male to N-Male cable, 125 cm, RG223/U RF cable, N-Male to BNC- Male, 75 cm, RG223/U RF cable, N-Male to BNC- Male, 125 cm, RG223/U RF cable, N-Male to SMA- Male, 125 cm, RG223/U
NM/500/RG213 NM- NM/35/RG223 NM- NM/125/RG223 RF NM- BNCM/75/RG223 NM- BNCM/125/RG223 NM- SMAM/125/RG223 NM-	RF cable, N-Male to N-Male cable, 35 cm, RG223/U RF cable, N-Male to N-Male cable, 125 cm, RG223/U RF cable, N-Male to BNC- Male, 75 cm, RG223/U RF cable, N-Male to BNC- Male, 125 cm, RG223/U RF cable, N-Male to SMA- Male, 125 cm, RG223/U RF cable, N-Male to SMA-
NM/500/RG213 NM- NM/35/RG223 NM- NM/125/RG223 RF NM- BNCM/75/RG223 NM- BNCM/125/RG223 NM- SMAM/125/RG223 NM- SMAM/15/RG223	RF cable, N-Male to N-Male cable, 35 cm, RG223/U RF cable, N-Male to N-Male cable, 125 cm, RG223/U RF cable, N-Male to BNC- Male, 75 cm, RG223/U RF cable, N-Male to BNC- Male, 125 cm, RG223/U RF cable, N-Male to SMA- Male, 125 cm, RG223/U RF cable, N-Male to SMA- Male, 75 cm, RG223/U
NM/500/RG213 NM- NM/35/RG223 NM- NM/125/RG223 RF NM- BNCM/75/RG223 NM- BNCM/125/RG223 NM- SMAM/125/RG223 NM-	RF cable, N-Male to N-Male cable, 35 cm, RG223/U RF cable, N-Male to N-Male cable, 125 cm, RG223/U RF cable, N-Male to BNC- Male, 75 cm, RG223/U RF cable, N-Male to BNC- Male, 125 cm, RG223/U RF cable, N-Male to SMA- Male, 125 cm, RG223/U RF cable, N-Male to SMA-

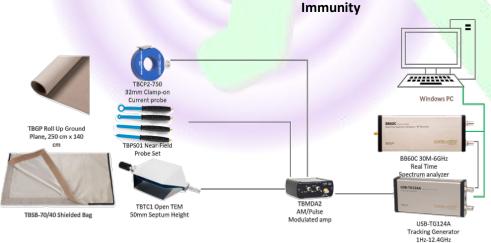


AB-Precompliant Deluxe Sm Diagram

Emissions



Model	Description
	9 kHz to 6 GHz, Real-time
	Spectrum Analyzer
	Up to 24 GHz/sec sweep speed
	(≥10 kHz RBW),
ppcac	Resolution bandwidths available
BB60C	from 10 Hz to 10 MHz
	100 kHz to 12.4 GHz Tracking generator works with BB60C
	Amplitude range: -30 dBm to -12
USB-TG124A	dBm
	Open TEM Cell for EMC Pre-
	Compliance Testing, 50mm
TBTC1	Septum, (Type-N)
TBSB-70/40	Shielded Bags 70 cm x 40 cm
	50uH 16A Line Impedance
TD1 504 C 3	Stabilization Network LISN CISPR
TBL5016-2	16 (BNC)
TBFL1	Transient Limiter, (Type-N) Roll Up Ground Plane, 250 cm x
TBGP	140 cm
TBPS01-	EMC Near-field Probe Set + 40dB
TBWA2/40dB	Wideband Amplifier, (BNC)
,	Double Ridge Horn Antenna, 1
ТВМА4	GHz – 8 GHz
	small, lightweight, wideband
	biconical measurement antenna,
TBMA1	30 MHz – 1000MHz
TBTP1	1490mm Tripod
	32mm Snap On RF Current
TDCD2 750	Monitoring Probes, up to 750
TBCP2-750	MHz Radiating Comb Generator, 30
TBCG1	MHz - 6 GHz
	Modulated Wideband Driver
	Amplifier, >27dBm , CW, 1kHz
	80% AM, 1kHz 50%DC Pulse,
TBMDA2	217Hz 12.5%DC pulse
	Coaxial Adapter Set, 44 pieces of
TDOOG	the most common 50 Ohm
TBCAS1	coaxial adapters
TBAS1	2W 3GHz N RF Attenuator Set 3dB, 6dB, 10dB, 20dB
.5701	10W 3GHz N RF Attenuator Set
TBAS3	3, 6, 10, & 20 dB
V. 1000	SMA 6GHz
1	Attenuator/Termination Set
10	3, 6, 10, 15, 20, & 30 dB +2x 1W
TBAS2	500hm Terminations
NM-	RF cable, N-Male to N-Male cable,
NM/312/RG213	312 cm, RG213/U
NM- NM/500/PG212	RF cable, N-Male to N-Male
NM/500/RG213 NM-	cable, 500 cm, RG213/U RF cable, N-Male to N-Male cable,
NM/35/RG223	35 cm, RG223/U
NM-	RF cable, N-Male to N-Male cable,
NM/125/RG223 RF	125 cm, RG223/U
NM-	RF cable, N-Male to BNC-Male,
BNCM/75/RG223	75 cm, RG223/U
NM-	RF cable, N-Male to BNC-Male,
BNCM/125/RG223	125 cm, RG223/U
NM-	RF cable, N-Male to SMA-Male,
NM- SMAM/125/RG223	RF cable, N-Male to SMA-Male, 125 cm, RG223/U
NM- SMAM/125/RG223 NM-	RF cable, N-Male to SMA-Male, 125 cm, RG223/U RF cable, N-Male to SMA-Male,
NM- SMAM/125/RG223 NM- SMAM/75/RG223	RF cable, N-Male to SMA-Male, 125 cm, RG223/U RF cable, N-Male to SMA-Male, 75 cm, RG223/U
NM- SMAM/125/RG223 NM- SMAM/75/RG223 SMAM-	RF cable, N-Male to SMA-Male, 125 cm, RG223/U RF cable, N-Male to SMA-Male, 75 cm, RG223/U RF cable, SMA-Male to SMA-
NM- SMAM/125/RG223 NM- SMAM/75/RG223	RF cable, N-Male to SMA-Male, 125 cm, RG223/U RF cable, N-Male to SMA-Male, 75 cm, RG223/U



Test kits can be altered or added to. Please call us to discuss your needs.

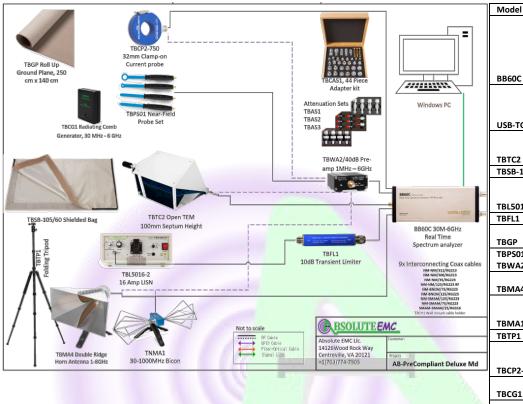
Dec-21

Remote support



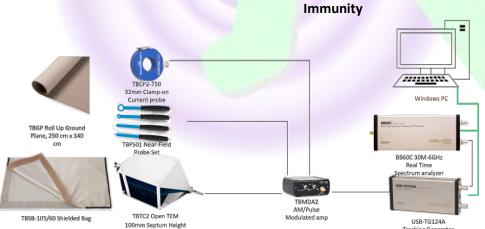
AB-Precompliant Deluxe Md Diagram

Emissions



Model	Description
	9 kHz to 6 GHz, Real-time
	Spectrum Analyzer
	Up to 24 GHz/sec sweep speed
	(≥10 kHz RBW),
	Resolution bandwidths available
BB60C	from 10 Hz to 10 MHz
ВВООС	
	100 kHz to 12.4 GHz Tracking
	generator works with BB60C
	Amplitude range: -30 dBm to -12
USB-TG124A	dBm
	Open TEM Cell for EMC Pre-
	Compliance Testing, 100mm
TBTC2	Septum, (Type-N)
TBSB-105/60	Shielded Bags 105 cm x 60 cm
	50uH 16A Line Impedance
_	Stabilization Network LISN CISPR
TBL5016-2	16 (BNC)
TBFL1	
IDLLI	Transient Limiter, (Type-N)
TREE	Roll Up Ground Plane, 250 cm x
TBGP	140 cm
TBPS01-	EMC Near-field Probe Set + 40dB
TBWA2/40dB	Wideband Amplifier, (BNC)
	Double Ridge Horn Antenna, 1
TBMA4	GHz – 8 GHz
	small, lightweight, wideband
	biconical measurement antenna,
TBMA1	30 MHz – 1000MHz
TBTP1	1490mm Tripod
IBIFI	
-	32mm Snap On RF Current
	Monitoring Probes, up to 750
☐ TBCP2-750	MHz
	Radiating Comb Generator, 30
TBCG1	MHz - 6 GHz
	Modulated Wideband Driver
in the second	Amplifier, >27dBm , CW, 1kHz
- Ch.	80% AM, 1kHz 50%DC Pulse,
TBMDA2	217Hz 12.5%DC pulse
	Coaxial Adapter Set, 44 pieces of
A.	the most common 50 Ohm
TBCAS1	coaxial adapters
	2W 3GHz N RF Attenuator Set
3735	3dB, 6dB, 10dB, 20dB N
TDAC1	
TBAS1	connector, 3 GHz, 2W
200	10W 3GHz N RF Attenuator Set
TBAS3	3, 6, 10, & 20 dB
100	SMA 6GHz
	Attenuator/Termination Set
100	3, 6, 10, 15, 20, & 30 dB +2x 1W
TBAS2	500hm Terminations
NM-	RF cable, N-Male to N-Male cable,
NM/312/RG213	312 cm, RG213/U
NM-	RF cable, N-Male to N-Male
NM/500/RG213	1
NM/500/RG213 NM-	cable, 500 cm, RG213/U
NM-	cable, 500 cm, RG213/U RF cable, N-Male to N-Male cable,
NM- NM/35/RG223	cable, 500 cm, RG213/U RF cable, N-Male to N-Male cable, 35 cm, RG223/U
NM- NM/35/RG223 NM-	cable, 500 cm, RG213/U RF cable, N-Male to N-Male cable, 35 cm, RG223/U RF cable, N-Male to N-Male cable,
NM- NM/35/RG223 NM- NM/125/RG223 RF	cable, 500 cm, RG213/U RF cable, N-Male to N-Male cable, 35 cm, RG223/U RF cable, N-Male to N-Male cable, 125 cm, RG223/U
NM- NM/35/RG223 NM- NM/125/RG223 RF NM-	cable, 500 cm, RG213/U RF cable, N-Male to N-Male cable, 35 cm, RG223/U RF cable, N-Male to N-Male cable, 125 cm, RG223/U RF cable, N-Male to BNC-Male,
NM- NM/35/RG223 NM- NM/125/RG223 RF NM- BNCM/75/RG223	cable, 500 cm, RG213/U RF cable, N-Male to N-Male cable, 35 cm, RG223/U RF cable, N-Male to N-Male cable, 125 cm, RG223/U RF cable, N-Male to BNC-Male, 75 cm, RG223/U
NM- NM/35/RG223 NM- NM/125/RG223 RF NM- BNCM/75/RG223 NM-	cable, 500 cm, RG213/U RF cable, N-Male to N-Male cable, 35 cm, RG223/U RF cable, N-Male to N-Male cable, 125 cm, RG223/U RF cable, N-Male to BNC-Male, 75 cm, RG223/U RF cable, N-Male to BNC-Male,
NM- NM/35/RG223 NM- NM/125/RG223 RF NM- BNCM/75/RG223	cable, 500 cm, RG213/U RF cable, N-Male to N-Male cable, 35 cm, RG223/U RF cable, N-Male to N-Male cable, 125 cm, RG223/U RF cable, N-Male to BNC-Male, 75 cm, RG223/U RF cable, N-Male to BNC-Male, 125 cm, RG223/U
NM- NM/35/RG223 NM- NM/125/RG223 RF NM- BNCM/75/RG223 NM-	cable, 500 cm, RG213/U RF cable, N-Male to N-Male cable, 35 cm, RG223/U RF cable, N-Male to N-Male cable, 125 cm, RG223/U RF cable, N-Male to BNC-Male, 75 cm, RG223/U RF cable, N-Male to BNC-Male,
NM- NM/35/RG223 NM- NM/125/RG223 RF NM- BNCM/75/RG223 NM- BNCM/125/RG223	cable, 500 cm, RG213/U RF cable, N-Male to N-Male cable, 35 cm, RG223/U RF cable, N-Male to N-Male cable, 125 cm, RG223/U RF cable, N-Male to BNC-Male, 75 cm, RG223/U RF cable, N-Male to BNC-Male, 125 cm, RG223/U
NM- NM/35/RG223 NM- NM/125/RG223 RF NM- BNCM/75/RG223 NM- BNCM/125/RG223 NM-	cable, 500 cm, RG213/U RF cable, N-Male to N-Male cable, 35 cm, RG223/U RF cable, N-Male to N-Male cable, 125 cm, RG223/U RF cable, N-Male to BNC-Male, 75 cm, RG223/U RF cable, N-Male to BNC-Male, 125 cm, RG223/U RF cable, N-Male to SNA-Male,
NM- NM/35/RG223 NM- NM/125/RG223 RF NM- BNCM/75/RG223 NM- BNCM/125/RG223 NM- SMAM/125/RG223	cable, 500 cm, RG213/U RF cable, N-Male to N-Male cable, 35 cm, RG223/U RF cable, N-Male to N-Male cable, 125 cm, RG223/U RF cable, N-Male to BNC-Male, 75 cm, RG223/U RF cable, N-Male to BNC-Male, 125 cm, RG223/U RF cable, N-Male to SMA-Male, 125 cm, RG223/U RF cable, N-Male to SMA-Male, 125 cm, RG223/U
NM- NM/35/RG223 NM- NM/125/RG223 RF NM- BNCM/75/RG223 NM- BNCM/125/RG223 NM- SMAM/125/RG223 NM- SMAM/125/RG223	cable, 500 cm, RG213/U RF cable, N-Male to N-Male cable, 35 cm, RG223/U RF cable, N-Male to N-Male cable, 125 cm, RG223/U RF cable, N-Male to BNC-Male, 75 cm, RG223/U RF cable, N-Male to BNC-Male, 125 cm, RG223/U RF cable, N-Male to SMA-Male, 125 cm, RG223/U RF cable, N-Male to SMA-Male, 125 cm, RG223/U RF cable, N-Male to SMA-Male, 75 cm, RG223/U
NM- NM/35/RG223 NM- NM/125/RG223 RF NM- BNCM/75/RG223 NM- SMCM/125/RG223 NM- SMAM/125/RG223 NM- SMAM/75/RG223 SMAM-	cable, 500 cm, RG213/U RF cable, N-Male to N-Male cable, 35 cm, RG223/U RF cable, N-Male to N-Male cable, 125 cm, RG223/U RF cable, N-Male to BNC-Male, 75 cm, RG223/U RF cable, N-Male to BNC-Male, 125 cm, RG223/U RF cable, N-Male to SMA-Male, 125 cm, RG223/U RF cable, N-Male to SMA-Male, 75 cm, RG223/U RF cable, N-Male to SMA-Male, 75 cm, RG223/U RF cable, SMA-Male to SMA-Male,
NM- NM/35/RG223 NM- NM/125/RG223 RF NM- BNCM/75/RG223 NM- BNCM/125/RG223 NM- SMAM/125/RG223 NM- SMAM/75/RG223 SMAM- SMAM/25/RG316	cable, 500 cm, RG213/U RF cable, N-Male to N-Male cable, 35 cm, RG223/U RF cable, N-Male to N-Male cable, 125 cm, RG223/U RF cable, N-Male to BNC-Male, 75 cm, RG223/U RF cable, N-Male to BNC-Male, 125 cm, RG223/U RF cable, N-Male to SMA-Male, 125 cm, RG223/U RF cable, N-Male to SMA-Male, 125 cm, RG223/U RF cable, N-Male to SMA-Male, 75 cm, RG223/U RF cable, SMA-Male to SMA-Male, 75 cm, RG223/U RF cable, SMA-Male to SMA-Male, 75 cm, RG223/U
NM- NM/35/RG223 NM- NM/125/RG223 RF NM- BNCM/75/RG223 NM- SMCM/125/RG223 NM- SMAM/125/RG223 NM- SMAM/75/RG223 SMAM-	cable, 500 cm, RG213/U RF cable, N-Male to N-Male cable, 35 cm, RG223/U RF cable, N-Male to N-Male cable, 125 cm, RG223/U RF cable, N-Male to BNC-Male, 75 cm, RG223/U RF cable, N-Male to BNC-Male, 125 cm, RG223/U RF cable, N-Male to SMA-Male, 125 cm, RG223/U RF cable, N-Male to SMA-Male, 75 cm, RG223/U RF cable, N-Male to SMA-Male, 75 cm, RG223/U RF cable, SMA-Male to SMA-Male,

Description

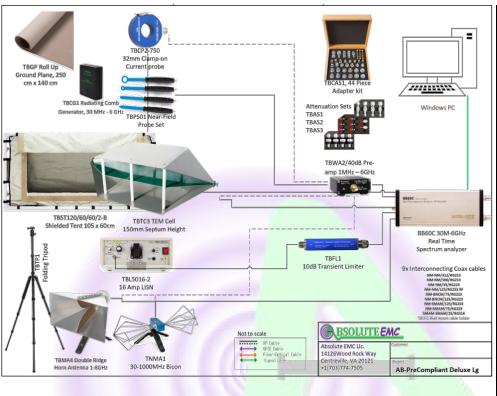


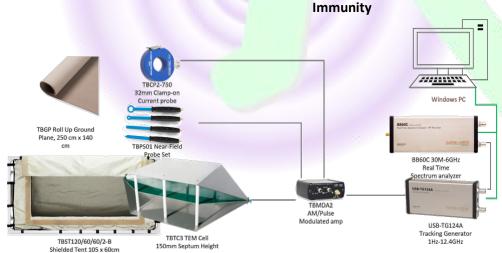
Test kits can be altered or added to. Please call us to discuss your needs.



AB-Precompliant Deluxe Lg Diagram

Emissions



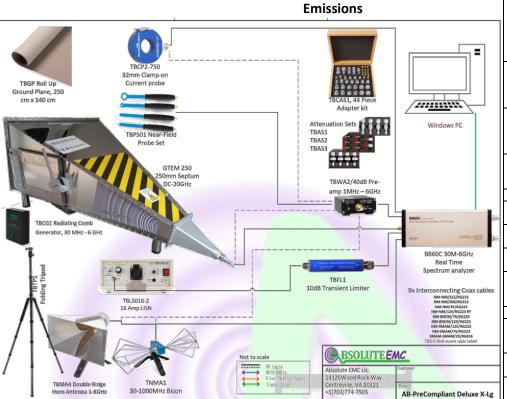


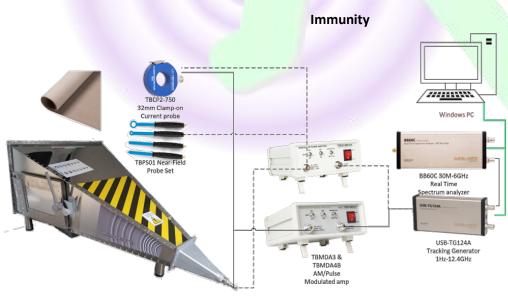
Test kits can be altered or added to. Please call us to discuss your needs.

Model Description	
9 kHz to 6 GHz, Real-time	
Spectrum Analyzer	
Up to 24 GHz/sec sweep spee	d
(≥10 kHz RBW),	
Resolution bandwidths	
BB60C available from 10 Hz to 10 MH	łz
100 kHz to 12.4 GHz Tracking	
generator works with BB60C	
Amplitude range: -30 dBm to	-
USB-TG124A 12 dBm	
Open TEM Cell for EMC Pre-	
Compliance Testing, 150mm	
TBTC3 Septum, (Type-N)	
TBST120/60/60/2-B Shielded Tent 105 cm x 60 cm	
50uH 16A Line Impedance	
Stabilization Network LISN	
TBL5016-2 CISPR 16 (BNC)	
TBFL1 Transient Limiter, (Type-N)	
Roll Up Ground Plane, 124 cm	Х
TBGP 64 cm x 60 cm	
EMC Near-field Probe Set +	
TBPS01- 40dB Wideband Amplifier,	
TBWA2/40dB (BNC)	
Double Ridge Horn Antenna,	L
TBMA4 GHz – 8 GHz	
small, lightweight, wideband	
biconical measurement	
TBMA1 antenna, 30 MHz – 1000MHz	
TBTP1 1490mm Tripod	
32mm Snap On RF Current	
Monitoring Probes, up to 750	
TBCP2-750 MHz	
Radiating Comb Generator, 30)
TBCG1 MHz - 6 GHz	
Modulated Wideband Driver	
Amplifier, >27dBm , CW, 1kHz 80% AM, 1kHz 50%DC Pulse,	
TBMDA2 217Hz 12.5%DC pulse	
Coaxial Adapter Set, 44 pieces	
of the most common 50 Ohm	,
TBCAS1 coaxial adapters	
2W 3GHz N RF Attenuator Set	
3dB, 6dB, 10dB, 20dB N	
TBAS1 connector, 3 GHz, 2W	
10W 3GHz N RF Attenuator Se	et
TBAS3 3, 6, 10, & 20 dB	
SMA 6GHz	
Attenuator/Termination Set	
3, 6, 10, 15, 20, & 30 dB +2x	
TBAS2 1W 500hm Terminations	
RF cable, N-Male to N-Male	
NM-NM/312/RG213 cable, 312 cm, RG213/U	
RF cable, N-Male to N-Male	
NM-NM/500/RG213 cable, 500 cm, RG213/U	
RF cable, N-Male to N-Male	
NM-NM/35/RG223 cable, 35 cm, RG223/U	
NM-NM/125/RG223 RF cable, N-Male to N-Male	
RF cable, 125 cm, RG223/U	
NM- RF cable, N-Male to BNC-Mal	e,
BNCM/75/RG223 75 cm, RG223/U	
NM- RF cable, N-Male to BNC-Mal	e,
BNCM/125/RG223 125 cm, RG223/U	
NM- RF cable, N-Male to SMA-Ma	le,
SMAM/125/RG223 125 cm, RG223/U	ما
SMAM/125/RG223 125 cm, RG223/U NM- RF cable, N-Male to SMA-Ma	ic,
SMAM/125/RG223 125 cm, RG223/U NM- RF cable, N-Male to SMA-Ma SMAM/75/RG223 75 cm, RG223/U	ic,
SMAM/125/RG223 125 cm, RG223/U NM- RF cable, N-Male to SMA-Ma SMAM/75/RG223 75 cm, RG223/U SMAM- RF cable, SMA-Male to	ic,
SMAM/125/RG223 125 cm, RG223/U NM- RF cable, N-Male to SMA-Ma SMAM/75/RG223 75 cm, RG223/U SMAM- RF cable, SMA-Male to SMA-Male, 25cm, RG316/U	
SMAM/125/RG223 125 cm, RG223/U NM- RF cable, N-Male to SMA-Ma SMAM/75/RG223 75 cm, RG223/U SMAM- RF cable, SMA-Male to	



AB-Precompliant Deluxe X-Lg Diagram





Test kits can be altered or added to. Please call us to discuss your needs.

Model	Description
	9 kHz to 6 GHz, Real-time
	Spectrum Analyzer
	Up to 24 GHz/sec sweep speed
	(≥10 kHz RBW), Resolution bandwidths available
BB60C	from 10 Hz to 10 MHz
ВВООС	100 kHz to 12.4 GHz Tracking
	generator works with BB60C
	Amplitude range: -30 dBm to -12
USB-TG124A	dBm
	GTEM 250 Ferrite, Assembled,
	250mm Septum
	8cm / 3,15"Flat or 15cm/6"
GTEM 250 A-F	hybrid pyramid +ferrite
	50uH 16A Line Impedance
	Stabilization Network LISN CISPR
TBL5016-2	16 (BNC)
TBFL1	Transient Limiter, (Type-N)
	Roll Up Ground Plane, 124 cm x
TBGP	64 cm x 60 cm
TBPS01-	EMC Near-field Probe Set + 40dB
TBWA2/40dB	Wideband Amplifier, (BNC) Double Ridge Horn Antenna, 1
ТВМА4	GHz – 8 GHz
I DIVING	small, lightweight, wideband
	biconical measurement antenna,
TBMA1	30 MHz – 1000MHz
TBTP1	1490mm Tripod
	32mm Snap On RF Current
	Monitoring Probes, up to 750
TBCP2-750	MHz
	Radiating Comb Generator, 30
TBCG1	MHz - 6 GHz
	Modulated Wideband Driver
	Amplifier, 20W , CW, 1kHz 80%
	AM, 1kHz 50%DC Pulse, 217Hz
TBMDA3	12.5%DC pulse
	Modulated Wideband Driver
	Amplifier, 20W , CW, 1kHz 80%
TBMDA4B	AM, 1kHz 50%DC Pulse, 217Hz 12.5%DC pulse
TDIVIDATO	Coaxial Adapter Set, 44 pieces of
324	the most common 50 Ohm
TBCAS1	coaxial adapters
100	2W 3GHz N RF Attenuator Set
1000	3dB, 6dB, 10dB, 20dB N
TBAS1	connector, 3 GHz, 2W
St. Steel	10W 3GHz N RF Attenuator Set
TBAS3	3, 6, 10, & 20 dB
38	SMA 6GHz
10000	Attenuator/Termination Set
TDACS	3, 6, 10, 15, 20, & 30 dB +2x 1W
TBAS2	500hm Terminations
NM- NM/212/PG212	RF cable, N-Male to N-Male cable,
NM/312/RG213 NM-	312 cm, RG213/U
NM/500/RG213	RF cable, N-Male to N-Male cable, 500 cm, RG213/U
NM-	RF cable, N-Male to N-Male cable,
NM/35/RG223	35 cm, RG223/U
NM-	RF cable, N-Male to N-Male cable,
NM/125/RG223 RF	125 cm, RG223/U
NM-	RF cable, N-Male to BNC-Male,
BNCM/75/RG223	75 cm, RG223/U
NM-	RF cable, N-Male to BNC-Male,
BNCM/125/RG223	125 cm, RG223/U
NM-	RF cable, N-Male to SMA-Male,
SMAM/125/RG223	125 cm, RG223/U
NM-	RF cable, N-Male to SMA-Male,
SMAM/75/RG223	75 cm, RG223/U
SMAM-	RF cable, SMA-Male to SMA-
SMAM/25/RG316	Male, 25cm, RG316/U
TBCH1	wall mount cable holder
	Remote support



Tips for scanning

- Use TEM/GTEM to take measurements in a low RF ambient environment to get a list of frequencies to investigate from the EUT/DUT.
- For conducted measurements, use the LISN and current probes to take measurements.
- Always be aware of ambient signals and discard their influence on your measurements.
- Take baseline measurements of your found emission frequencies
 - o Be sure measurements/setups are repeatable and well documented
- Antennas are used to come closer to compliant setups while only focusing on the set emission frequencies. If close or at the same frequencies as ambient levels, use alternative methods.
- Once the known troublesome test frequencies are documented, investigate further
 - with near field probes
 - with current probes
 - use shielding to verify (tinfoil is a great tool)
- once you find and make simple modifications confirm any changes in your baseline setup
 - small changes (few dB) may not prove the change did anything
 - o big changes of many dB you would be more convincing
 - Learn and know your setup, experience with your setup is king

