THE INVISIBLE MADE VISIBLE

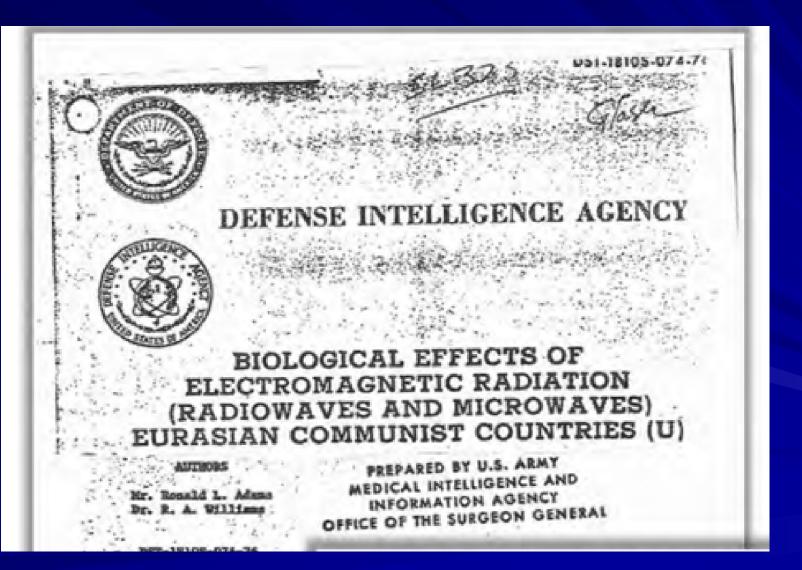
NO PLACE TO HIDE A GLOBAL PHENOMENON

Systems and Mitigation

Robert Steller, BBEC, BBEI, EE, CMR, EMRS, CRMT



The US army is concerned



Declassified and Approved For Release 2012/05/10 : CIA-RDP88B01125R000300120005-6

JPRS 1/7298 3 August 1977

Auszug















CIA Bericht zu sowjetischer HF-Forschung

CIA-RDP88B01125R000300120005-6.pdf

TRANSLATIONS ON USSR SCIENCE AND TECHNOLOGY BIOMEDICAL SCIENCES (GUO 28/77)

EFFECTS OF NONIONIZING ELECTROMAGNETIC RADIATION

U. S. JOINT PUBLICATIONS RESEARCH SERVICE

CIA is concerned

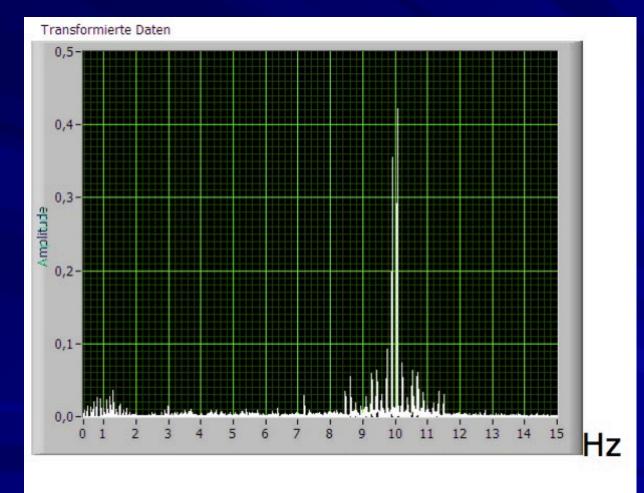
The German physician Dr. Erwin Schliephake describes Radio and Microwave sickness near transmitters since 1932

He found and my clients tell me this

3.26 Radiowellen- oder Mikrowellenkrankheit seit 1932 bekannt und objektiv Schäden nachgewiesen

Im August 1932, also vor 75 Jahren, veröffentlichte der deutsche Arzt Erwin Schliephake in der Deutschen Medizinischen Wochenschrift wissenschaftliche Daten über die von Radiosendeanlagen hervorgerufene "Mikrowellen-" oder "Radiowellen-Krankheit" mit folgenden Symptomen: starke Müdigkeit und Erschöpfung am Tage, unruhiger Schlaf in der Nacht, Kopfschmerzen bis zur Unerträglichkeit, hohe Infektanfälligkeit. Arrhythmia Severe fatigue Exhaustion Sleep disorder Strong headaches Infections et al

The major concern



Artificial 10 Hz peak showing in an EMG after turning on a WIFI router

This desynchronizes the Schumann effect on the brain and creates a 10 Hz WIFI pulsation stress memory and once "engraved" in the brain" it becomes permanent for life

=> EHS for life !

Prof. Lebrecht von Klitzing – Prof. Prof. Dr. med. Habil. Karl Hecht

Router cases

Calgary autistic 14 year old
 Toronto condo (initially mould complaint)

PROBLEM

Identification What is the problem Why do we have the problem Improvement Awareness Believe it is a problem

Measurements

Make invisible things visible or audible

of

Health

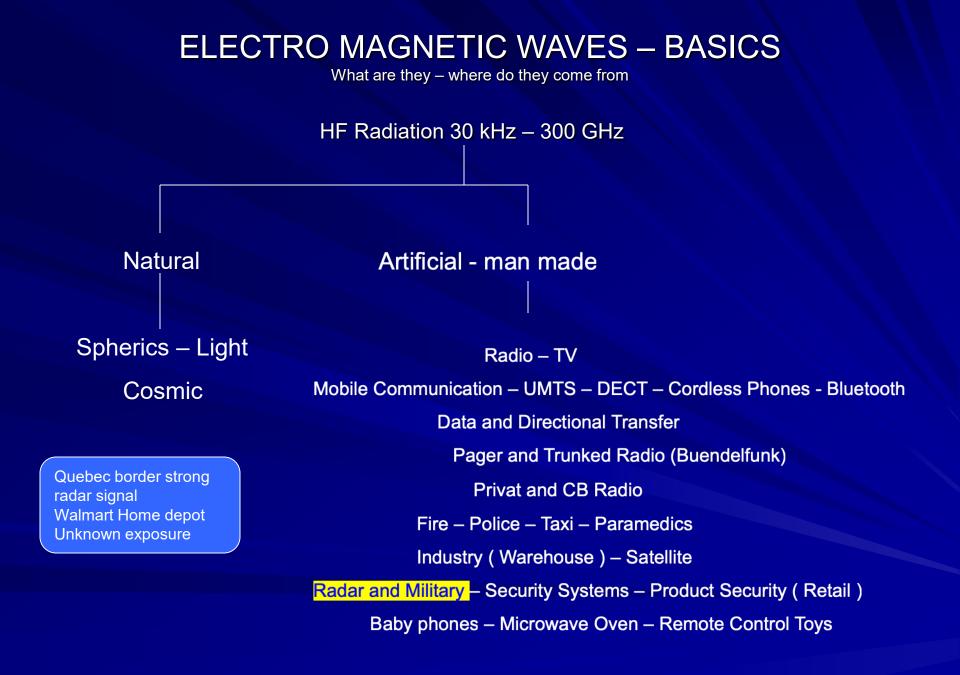
Solution

Geared to the individual problem

Ideal

-



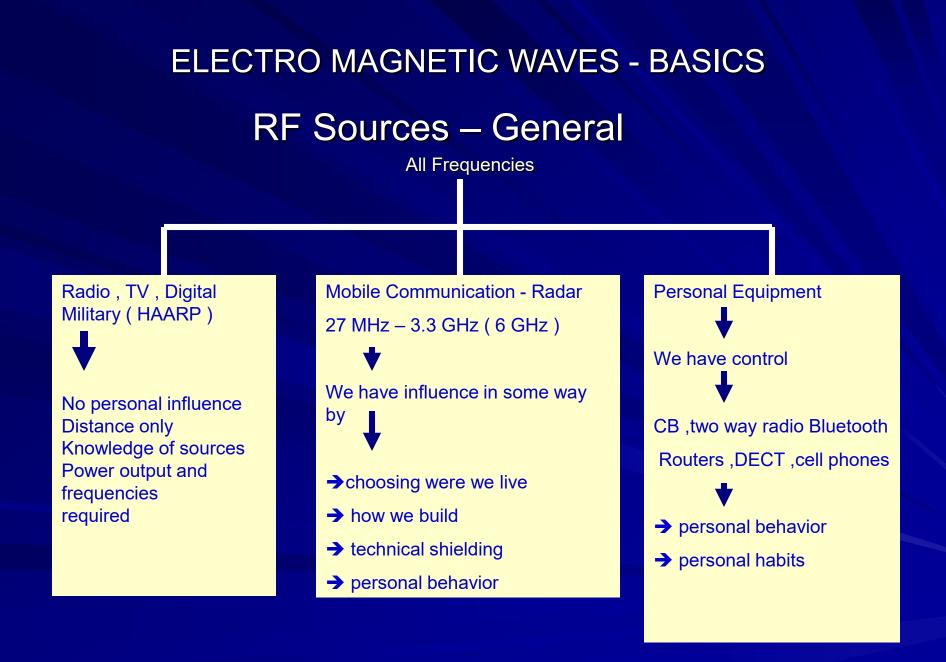


ELECTRO MAGNETIC WAVES – BASICS

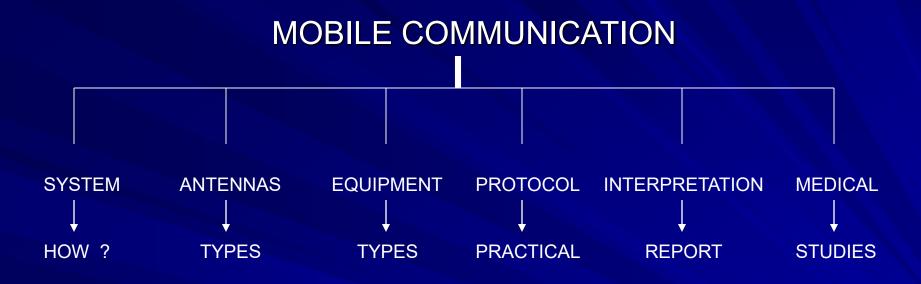
Mobile Communication - Radar – UMTS – Bluetooth – Personal and Office Equipment 200 MHz – 10 hz

Radiation or Field Strength increases or decreases

- Power output of transmitter make ,kind ,construction and direction of transmitter
- Reflection of surroundings (buildings)
- Environment Landscape Weather
- The way a building is constructed what kind of building materials
- Additional technical shielding
- Distance to transmitter and antenna



ELECTRO MAGNETIC WAVES - BASICS



PART 1 – HOW DOES THE SYSTEM WORK

WHY THE NAME CELL PHONE ? CELL PHONES OPERATE IN "CELLS"



A CELL IS A GEOGRAPHICAL AREA COVERED BY CELLULAR RADIO ANTENNAS

THERE IS ALSO A CELL SITE

A CELL SITE IS THE PLACE AT THE EDGE OF CELLS WHERE THE EQUIPMENT IS LOCATED

CELLULAR RADIO PROVIDES MOBILE TELEPHONE SERVICE BY EMPLOYING A NETWORK OF "CELL SITES" WHICH COVER THE AREA OF SEVERAL CELLS

WHAT IS A CELL SITE AND WHY DO WE NEED IT?

A CELL SITE WITH BASE STATION



Cell site





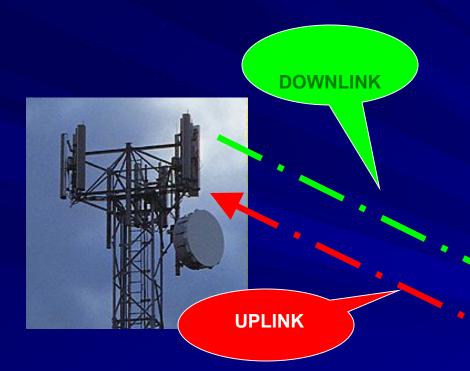
HOW DOES THE SYSTEM WORK?







IF YOUR PHONE IS ON IT STAYS IN TOUCH WITH THE NEAREST BASE STATION



SIGNAL STRENTGH READINGS ARE ALSO A FACTOR IN THE PROCESS OF ASSIGNING YOUR PHONE TO A BASE STATION



CELL TOWER RADIATION CHARACTERISTICS A FEW THINGS TO REMEMBER

- ANTENNAS ARE OFTEN DIRECTIONAL
- FIELD STRENTGHS IS A FACTOR
- POSITION OF THE MOBILE UNIT
- PULSED SIGNALS VERSUS NON PULSED
- REFLECTION ,ATTENUATION
- BUILDING MATERIALS
- DISTANCE FROM SOURCE

The properties and behavior of high frequency radiation

If high frequency radiation hits any material it

- partially penetrates the material
- is partially reflected
- is partially absorbed
- \blacksquare \rightarrow and all of the above



Roof has main HF leakage in this case

Main direction of radiation

RADIATION CHARACTERISTICS OF CELL PHONE TOWERS



AREA OF HIGHEST RADIATION

Hauptstrahlrichtung

Immissionsmaximum im Einfallspunkt der Welle AREA OF LOWEST RADIATION



Hauptstrahlrichtung

MAIN DIRECTION OF RADIATION

Maximum radiation impact

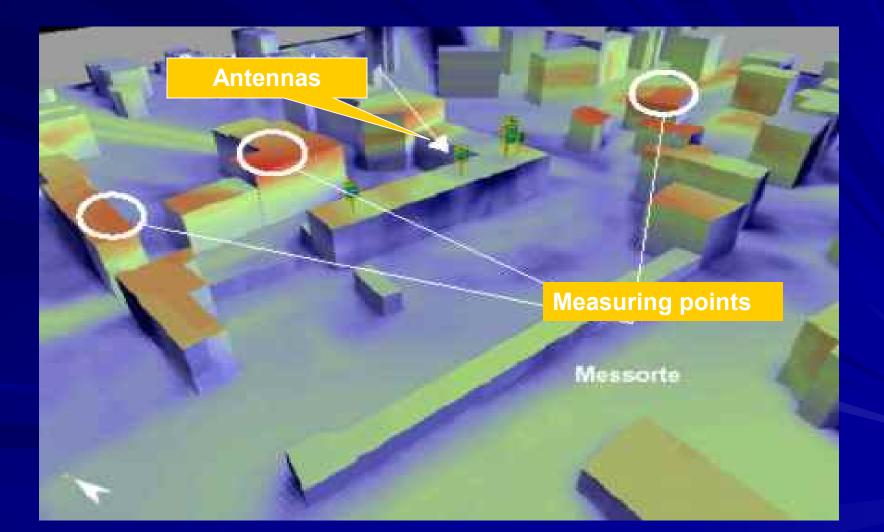
Immissionsmaximum im Einfallspunkt der Welle

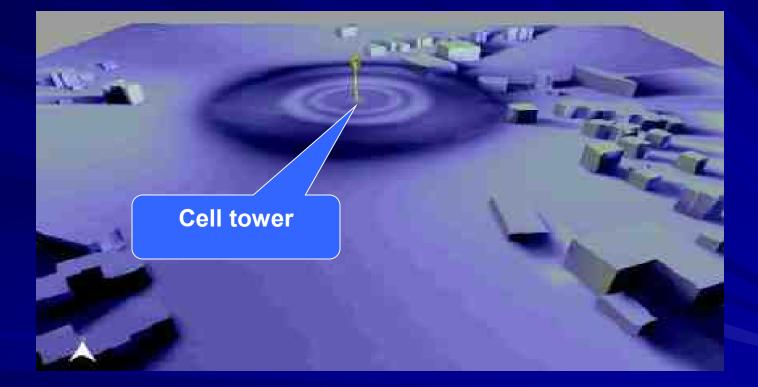
Betrachtungspunkt Measuring point

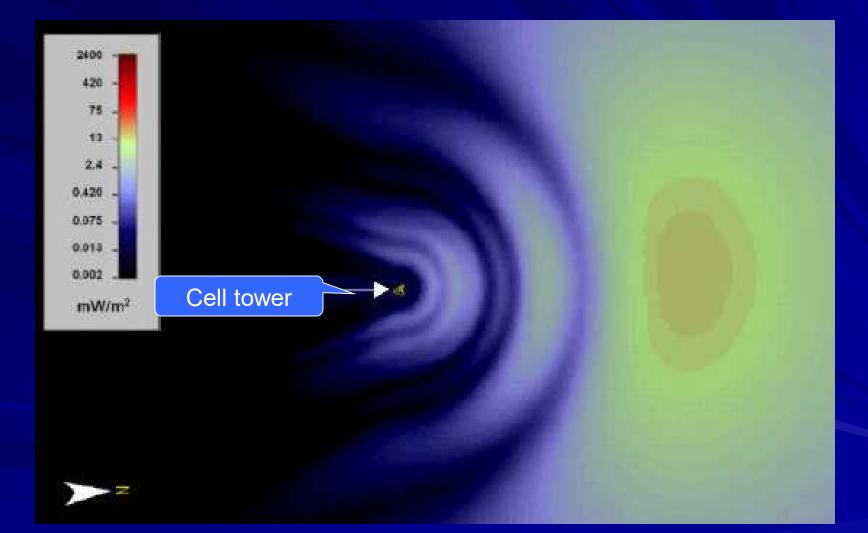
Antenna

Direct/radio wave

Direkte Welle



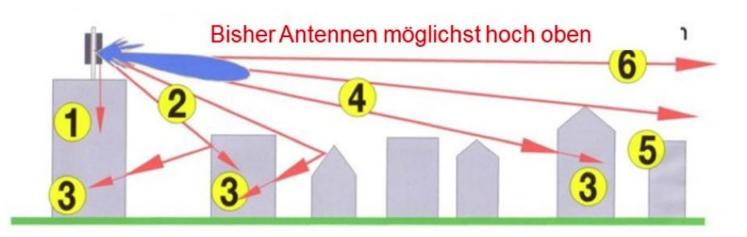




Das nachfolgende Bild dient zur Veranschaulichung des entfernungsabhängigen Verlaufs der Leistungsflussdichte sowie der vertikalen Richtwirkung der Antenne (inklusive beispielhafter, realitätsnaher "Nebenkeulen", siehe dazu die nächste Seite):



Schematischer Verlauf der Leistungsflußdichte der oben aufgeführten Antenne in Abhängigkeit von der Entfernung Der Bereich oberhalb des Vorsorgewertes des Ecolog-Institutes von 10 mW/m² ist gelb hervorgehoben

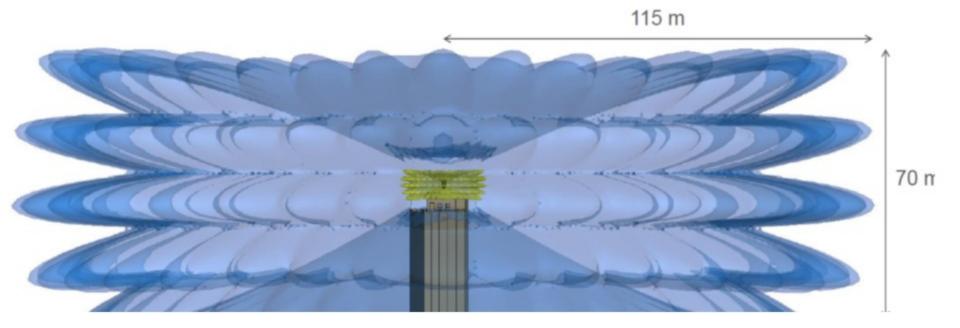


Grundsätzlich verschiedene Ausbreitungsarten

Oben: 2G = GSM 3G = UMTS 4G = LTE



28 GHZ Rundstrahler mit 250 Keulen

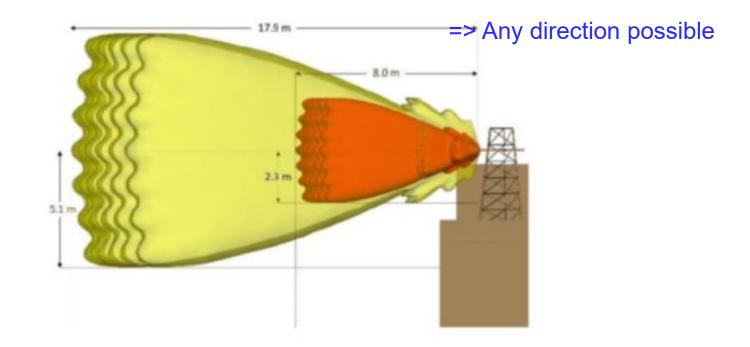


Blaue Zone abnehmend von 60 auf 6V/m

6V/m auf einem Radius von 115m Höhe des Feldes = 70m

Grafik: Ericsson

Antennen AIR 6488.343xxx von ERICSSON Basic 5G 8 x 8 lobes = 64



Rote Zone: 50W/m2 = 140V/m Gelbe Zone: 10W/m2 = 61V/m Entspricht einer Sendeleistung von 25'000Watt ERP



In this case we have a partial penetration



In this case we have a - partial reflection

more information is in the brochure about shielding properties of building materials



This is a partial absorption



In order to determine proper remediation actions it is essential to know the frequencies ,field strength ,polarization ,internal versus external

- For correct shielding actions we need to know what the maximum field level in a certain area or room is (see HF 4)
- We need to know the direction were the radiation enters a building
- It is of interest what kind of signal we are dealing with (audio analysis)
- The use of different antennas for different frequencies
- Sensitivity is important which enables the user to detect very low but dangerous levels of radiation according to BB standards

Building Material Attenuation - Experiment



Building Material Attenuation

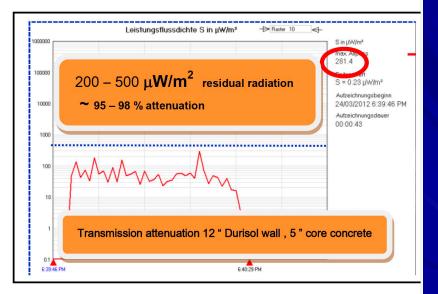


Building Material Attenuation



Attenuation based on initial exposure

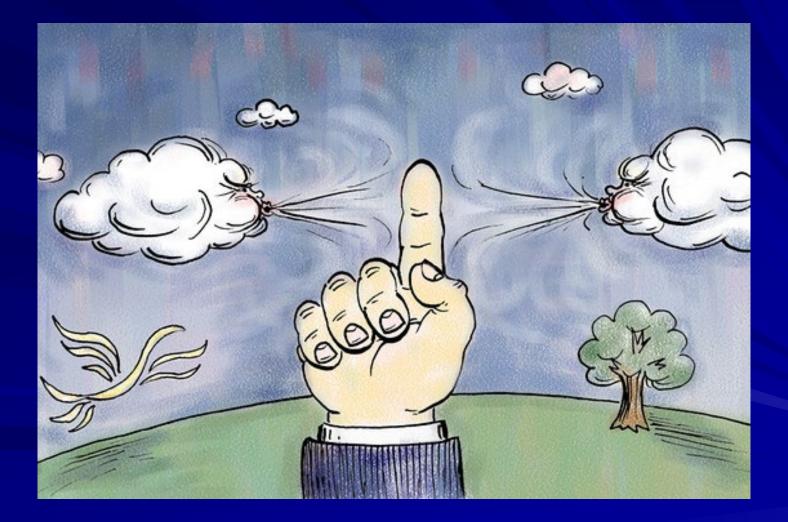




Building Material Attenuation

Room	Method	Source	Value	Antenna	
Results are for <	2.4 GHz if not otherw	ise specified for individu	al areas. All measurements	can vary in	
Field strength by +3dB or – 3dB					
Description	Method	Radiation source	Field Strength	Attenuation in %	
Baseline	Broad Band	D Link router	<mark>9770 μW/m²</mark>		
Hemp wallBroad BandBaselineBroad BandDurisol 12 "Broad Band		D Link router	<mark>6180 μW/m² residual</mark>	~ 53 %	
		D Link router	<mark>10092 μW/m²</mark>		
		D Link router	<mark>200 – 500 μW/m² residual</mark>	~ 95 – 98 %	
Baseline	aseline Broad Band		<mark>8430 μW/m²</mark>		
Durisol 10 "Broad Band		D Link router	<mark>1310 – 1430 μW/m² residual</mark>	~ 83 – 85 %	

How to measure ?





- Expertise
- Experience
- Correct
 knowledge
- Laws of physics
- True versus
 pseudo science
- Proper high quality instrumentation

Officially high frequency signals must be measured in so called " open field " conditions without obstruction



In Building Biology however we are interested in the protection of human health and therefore we have to measure inside building – mostly in sleeping and rest areas

The sum of signals respectively the strongest

signal must be obtained

RF Instruments



Measurement examples

Quebec



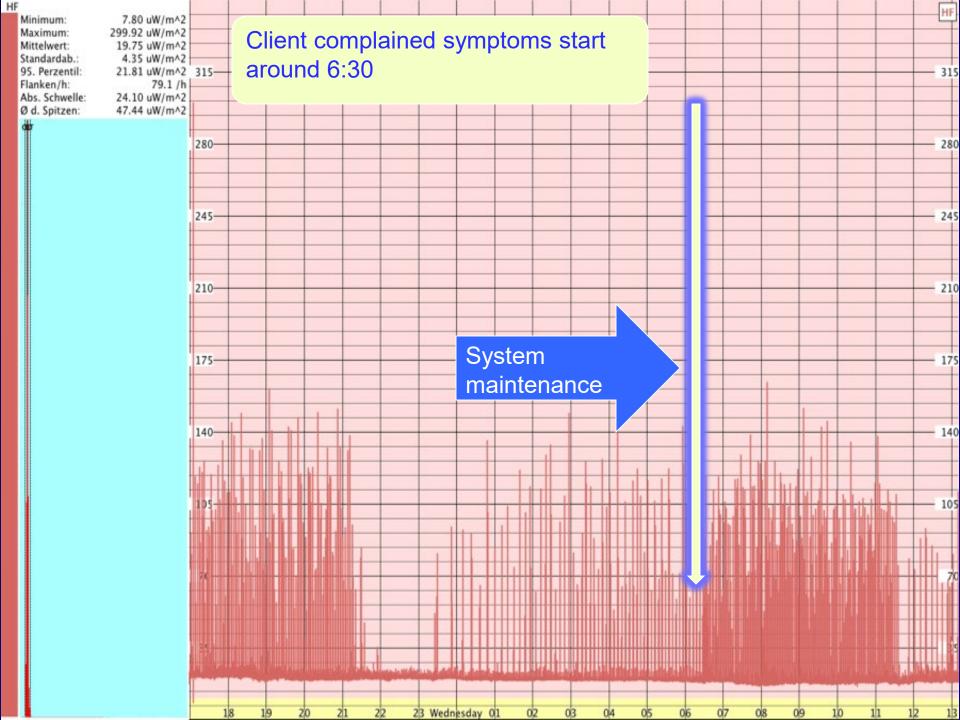
Weather Radar King City

Military Radar

Larry

Approach Beacons example 50 miles 100 miles

Aviation Radar Radar



Shielding from Technical Exposure



Possibilities Limitations Hazards Holistic Approach

Shielding clothing \rightarrow capacitance and electric potential

Long term effects unknown

Radiation **can** increase 10 – 100 times versus background depending on source location and body position



Shielding hats - Caution



Radiation can increase 10 – 100 times versus background depending on **SOURCE location and body position**

Beware of the material

Shielding paint can be used effectively but....



- Requires precise knowledge about exposure
- Reflection and amplification of fields
- I used it in my office to block the neighbors WIFI



Shielding Canopy – good protection at night



Smart meter shielding covers – limited effect – go analog







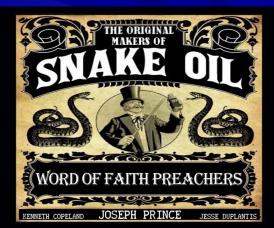


Stickers

If these gismos would work apple and other companies would buy the technology and market it but instead.....



Beware of





is located near the back top edge of the iPhone. iPhone is designed and manufactured to comply with the limits for exposure to RF energy set by the Federal Communications Commission (FCC) of the United States, Industry Canada (IC) of Canada, and regulating entities of Japan, the European Union, and other countries. The exposure standard employs a unit of measurement known as the specific absorption rate, or SAR. The SAR limit applicable to iPhone set by the FCC is 16 watts per kilogram (1V/kg), 16 W/kg by Industry Canada, and 2.0 W/kg by the Council of the Euro are conducted using standard operating position on the body) specified by these agencies, with if biobest certified power level in all tested frequent

Apple (here) and other companies warn you

			o tested lioned		
d below	v:				
lody	Ear	FC	rC 1g SAR Limit (W/kg)		
.030	0.521	1.6			
.522	1.290	1.6			

oncy band,

v the

r based

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frequency band is outlined below:

Frequency Band	Body	Ear	FC	C 1g SAR Limit (W/kg)
GSM 850	1.030	0.521	1.6	
GSM 1900	0.522	1.290	1.6	
UMTS II 1900	0.402	1.388	1.6	a ann an Aprophy
UMTS V 850	0.733	0.516	1.6	
Wi-Fi	0.088	0.779	1.6	
Frequency Band	Body	Ear		3 SARLimit (W/kg)

Frequency Band	Body	Ear	EU 10g SARLimit (W/kg)
GSM 900	0.559	0.235	2.0
GSM 1800	0.369	0.780	2.0

² The device was tested by Compliance Certification Services, Fremont, CA according to measurement standards and procedures specified in FCC OET Bulletin 65, Supplement C (Edition 01-01) and IEEE P1528.1, April 21 2003 and Canada RSS 102. iPhone adheres to the European Council Recommendation of 12 July 1999 on the Limitation of Exposure of the General Public to Electromagnetic Fields [1999/519/EC].

Frequency Band	Body	Ear	EU 10g SARLimit (W/kg)
UMTS I 2100	0.231	0.878	2.0
W-FI	0.051	0.371	2.0

iPhone's SAR measurement may exceed the FCC exposure guidelines for body-worn operation if positioned less than 15 mm (5/8 inch) from the body (e.g. when carrying iPhone in your pocket). For optimal mobile device performance and to be sure that human exposure to RF energy does not exceed the FCC, IC, and European Union guidelines, always follow these instructions and precautions: When on a call using the built-in audio receiver in iPhone, hold iPhone with the dock connector pointed down toward your shoulder to increase separation from the antenna. When using iPhone near your body for voice calls or for wireless data transmission over a cellular network, keep iPhone at least 15 mm (5/8 inch) away from the body, and only use carrying cases, belt clips, or holders that do not have metal parts and that maintain at least 15 mm (5/8 inch) separation between iPhone and the body.

If you are still concerned about exposure to RF energy, you can further limit your exposure by limiting the amount of time using iPhone, since time is a factor in how much exposure a person receives, and by placing more distance between your body and iPhone, since exposure level drops off dramatically with distance.

Additional Information For more information from the FCC about exposure to RF energy, see: www.fcc.gov/oet/rfsafety

The FCC and the U.S. Food and Drug Administration (FDA) also maintain a consumer website at www.fda.gov/Radiation-EmittingProducts/ RadiationEmittingProductsandProcedures/HomeBusinessandEntertainment/ CellPhones/default.htm to address inquiries about the safety of mobile phones. Please check the website periodically for updates.

For information about the scientific research related to RF energy exposure, see the EMF Research Database maintained by the World Health Organization at: www.who.int/emf

Radio Frequency Interference Radio-frequency emissions from electronic equipment can negatively affect the operation of other electronic equipment causing them to malfunction. Although iPhone is designed, tested, and manufactured to comply with regulations governing radio frequency emission in countries such as the United States, Canada, the European Union, and Japan, the wireless transmitters and electrical circuits in iPhone may cause interference in other electronic equipment. Therefore, please take the following precautions:

Aircraft Use of iPhone may be prohibited while traveling in aircraft. For more information about using Airplane Mode to turn off the iPhone wireless transmitters, see the iPhone User Guide.

Vehicles Radio frequency emissions from iPhone may affect electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle.



Last week, a couple of blogs noted that a recent commercial liability insurance renewal policy issued through a Lloyd's of London underwriter contained a liability exclusion clause about electromagnetic fields.

The clause excludes any compensation for claims:

"directly or indirectly arising out of, resulting from or contributed to by electromagnetic fields, electro-magnetic radiation, electromagnetism, radio waves or noise."

It is important that "radio waves" are explicitly included as they, specifically the microwave zone, are what enable wireless communications devices like cell phones, wi-fi, cordless phones etc.

After the policy holder made an inquiry seeking clarification about the exclusion language, CFC Underwriting LTD in London, the UK agent for Lloyd's, sent the following:

"The Electromagnetic Fields Exclusion (Exclusion 32) is a General Insurance Exclusion and is applied across the market as standard. The purpose of the exclusion is to exclude cover for illnesses caused by continuous long-term non-ionising radiation exposure i.e. through mobile phone usage."

Grounding pads and mats

Body current flow enabled



Everybody grounding themselves should be familiar with the concept of capacitive body coupling and electric potential

- 1. Grounding forces the body to earth potential
- 2. This will attract every electric field surrounding the body
- 3. The human body becomes a "magnet" for those fields
- 4. "backdraft" of dirty electricity from the outlet
- 5. Multi grounded system North America potential "backdraft" from Earth
- 6. Induces current flow on the body

Conclusion

Quodcumque facitis intuentes finem

Whatever you do think about the consequence

Unknow Roman Philosopher

Main Focus

- Develop effective small side effect shielding
- Correct diagnosis of patients
- Correct diagnosis of exposure
- Build a safe diagnostic center