Wojewódzki Inspektorat Ochrony Środowiska w Katowicach
Pracownia Analiz Manualnych, Instrumentalnych, Hydrobiologicznych
oraz Pomiarów Terenowych i Pobierania Próbek

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AB 480

SPRAWOZDANIE Z BADAŃ NR 1758/2015

Nr sprawy: LC.7071.51.2015
Porozumienie Nr: 1/2012

Klient: **Wydział Monitoringu Środowiska WIOŚ w Katowicach**

Pomiary monitoringowe poziomów pól elektromagnetycznych
w przedziale częstotliwości
100 kHz – 3 GHz
(składowej *elektrycznej* E)
w środowisku,
wykonane dnia 18 września 2015 r.
na terenie zabudowy mieszkaniowej,
w ZAWIERCIU
Miasto - Zawiercie
Powiat - zawierciański
województwo śląskie.

Wyniki badań dotyczą tylko badanego obiektu.

Sprawozdanie z badań nie może być powielone inaczej niż w całości bez pisemnej zgody Kierownika Laboratorium.

Laboratorium jest akredytowane przez Polskie Centrum Akredytacji i posiada certyfikat nr AB 480.

Wykonujący badania:

1. Agnieszka Turek – Specjalista	**2. Ireneusz Picz – Specjalista**

Osoba autoryzująca sprawozdanie: **Tomasz Danecki – Główny specjalista**
Pieczęć i podpis

Zatwierdził:
Pieczęć i podpis

Częstochowa, 23.12.2015

1. PODSTAWA BADAŃ

Podstawę realizacji przedmiotowych badań monitoringowych poziomów pól elektromagnetycznych w przedziale częstotliwości 100 kHz – 3 GHz w środowisku stanowi Rozporządzenie Ministra Środowiska z dnia 12 listopada 2007 r. *w sprawie zakresu i sposobu prowadzenia okresowych badań poziomów pól elektromagnetycznych w środowisku* (Dz. U. Nr 221, Poz. 1645) oraz Umowa nr 01/2012 Wydziału Monitoringu Środowiska WIOŚ w Katowicach z Laboratorium WIOŚ w Katowicach /Pracownią Analiz w Częstochowie, 42-200 Częstochowa, ul. Rząsawska 24/28, w przedmiocie realizacji ww. badań.

2. CEL BADAŃ

Celem badań jest określenie poziomów pól elektromagnetycznych w przedziale częstotliwości 100 kHz – 3 GHz (składowej *elektrycznej* E) w środowisku, w miejscach dostępnych dla ludności, na terenie obszaru zabudowy mieszkaniowej w mieście Zawiercie, w rozumieniu wytycznych Rozporządzenia Ministra Środowiska z dnia 12 listopada 2007 r. (Dz. U. Nr 221, Poz. 1645), w ramach programu Państwowego Monitoringu Środowiska, 2015 rok.

3. TEREN BADAŃ

Punkt pomiarowy P-1 poziomów pól elektromagnetycznych w środowisku zlokalizowano w granicach administracyjnych miasta Zawiercie, w południowej części śródmieścia miasta, przy ul. Pomorskiej 16. Zgodnie z obowiązującym Rozporządzeniem, wysokość posadowienia sondy pomiarowej wyniosła h: 2 m n.p.t. W najbliższym sąsiedztwie punktu pomiarowego P-1, zagospodarowanie terenu stanowi zabudowa mieszkaniowa wielorodzinna wielokondygnacyjna oraz zabudowa należąca do Gimnazjum nr 3, w tym kryta pływalnia. Punkt pomiarowy zlokalizowano na skwerze zieleni, w odległości około 15 m od elewacji frontowej budynku Pływalni Krytej przy Zespole Szkół, ul. M. C. Skłodowskiej 16. Najbliższe położone względem punktu pomiarowego obiekty budowlane – mieszkaniowe, to budynki mieszkalne jednorodzinne dwukondygnacyjne, ul. Pomorska 42 i 44A, znajdujące się po przeciwnej stronie drogi, oddalone o ok. 20 - 24 m w kierunku południowym od punktu obserwacji oraz budynek mieszkalny jednorodzinny zlokalizowany w odległości ok. 30 m w linii obiektu pływalni. W kierunku północno – wschodnim, w odległości ok. 50 m od punktu obserwacji znajduje się zasadnicza część budynku szkolnego – skrzydło główne.

W promieniu $d \leq 300$ m od punktu pomiarowego nie znajdują się żadne instalacje radiokomunikacyjne, radiolokacyjne, radionawigacyjne, emitujące pola elektromagnetyczne do środowiska.

Klasyfikacja rodzaju terenu wg wytycznych przedmiotowego Rozporządzenia:

Dzielnica (osiedle) miasta o liczbie mieszkańców powyżej 50 tys.

Nomenklatura jednostki terytorialnej (NTS):

Zawiercie 5.2.24.50.16.02.1

Współrzędne geogr. (GPS) punktu pomiarowego poziomów pól elektromagnetycznych w środowisku:

N 50^0 $28'$ 45,3"
E 19^0 26' 01,1";

Wysokość lokalizacji punktu pomiarowego:

h: 2,0 [m] n.p.t.;

Odległości punktu pomiarowego od elewacji najbliższych obiektów mieszkalnych zabudowy mieszkaniowej - jednorodzinnej, zlokalizowanej w pobliżu przekroju pomiarowego poziomów pól w środowisku:

l = 20 [m] - od elewacji budynku mieszkalnego jednorodzinnego – ul. Pomorska 42

Lokalizacja punktu pomiarowego – pas zieleni pomiędzy chodnikiem przy ul. Pomorskiej a budynkiem Pływalni Krytej (ul. Pomorska 61).

4. METODYKA BADAŃ

Rozporządzenie Ministra Środowiska z dnia 12 listopada 2007 r. *w sprawie zakresu i sposobu prowadzenia okresowych badań poziomów pól elektromagnetycznych w środowisku* (Dz. U. Nr 221, Poz. 1645).

5. WYPOSAŻENIE POMIAROWE

Pomiarów poziomów pól elektromagnetycznych częstotliwości 100 kHz - 3 GHz (składowej *elektrycznej*) w środowisku dokonano przy użyciu szerokopasmowego miernika natężenia pola elektromagnetycznego Narda Broadband Field Meter NBM-550, prod. Narda Safety Test Solutions GmbH, Niemcy;

Pomiarów oraz analizy widma promieniowania elektromagnetycznego w środowisku dokonano przy pomocy Selektywnego Analizatora Pola Elektromagnetycznego SRM - 3006, wraz z sondą pola, oprzyrządowaniem oraz oprogramowaniem, wg wzoru, prod. Narda Safety Test Solutions GmbH, Niemcy;

Pomiarów warunków meteorologicznych dokonano przy pomocy automatycznej stacji meteorologicznej MAWS – 201C, Vaisala, Finlandia;

Szczegółowe dane identyfikacyjne przyrządów przedstawiono w tabeli 1

Tabela 1

Pomiary poziomów pól elektromagnetycznych częstotliwości 100 kHz – 3 GHz (składowej *elektrycznej*) w środowisku		**Pomiary warunków meteorologicznych w środowisku**	
Przyrząd pomiarowy	Typ: Broadband Field Meter NBM-550 P/N: 2401/01 S/N: B-0507 Producent: Narda Safety Test Solutions GmbH, Niemcy;	Przyrząd pomiarowy	Typ: MAWS – 201C S. no.: G131055 Producent: Vaisala, Finlandia
Sonda	Typ: EF0391, *E-Field*		

<table>
<tr><td>pomiarowa</td><td>P/N: 2402/01
S/N: A-0636
Producent: j.w.
Zakres: 100 kHz – 3 GHz
Charakterystyka częstotliwościowa czułości:
+/- 1 dB (1MHz – 1 GHz)
+/- 1,25dB (1GHz – 2,45 GHz)</td><td></td><td></td></tr>
<tr><td>Przyrząd Pomiarowy:

Sonda Pomiarowa:

RF - cable:

Measurement principle:</td><td>Rodzaj/Typ: Selective Radiation Meter
Typ: SRM - 3006
P/N: 3006/01
S/N: H-0007
Producent: Narda Safety Test Solutions GmbH, Germany;

Typ: Three-Axes-Antenna E-Field
P/N: 23501/03
S/N: K-0560
Producent: j.w.
Zakres: 27 MHz – 3 GHz

Typ: RF - cable SRM
Zakres: 9 kHz - 6 GHz
Impedancja: N 50 Ohm
Długość, L: 1,5 m
P/N: 3602/01
S/N: AA-0583

Spectrum Analysis Mode</td><td colspan="2"></td></tr>
<tr><td rowspan="3">Data i czasokres pomiarów</td><td rowspan="3">18-09-2015 r.
10:02:33–12:02:23</td><td colspan="2">Wyniki pomiarów:</td></tr>
<tr><td>T [°C]</td><td>18,1 – 19,3</td></tr>
<tr><td>RH [%]</td><td>54,6 – 57,7</td></tr>
<tr><td>Częstotliwość próbkowania</td><td>f: 10 sec.</td><td colspan="2">UWAGI:
Pogodnie;
Brak opadów atmosferycznych</td></tr>
</table>

Gdzie:

T – temperatura powietrza w [^{0}C];
RH – wilgotność względna powietrza w [%].

Zastosowany przyrząd pomiarowy poziomów pól oraz sonda pomiarowa poziomów pól posiadają stosowne *świadectwa wzorcowania*, tj.:

- Narda Broadband Field Meter NBM-550, P/N 2401/01, S/N B-0507:

  - *Calibration Certificate No. NBM-550-B-0507-150610-1068*,
  Narda STS GmbH, D-72793 Pfullingen, Germany, 2015-06-10;

▪ Probe EF0391, *E-Field*, P/N 2402/01, S/N A-0636:

- *Calibration Certificate No. 240201-A0636-201506-00571*,
  Narda STS GmbH, D-72793 Pfullingen, Germany, 2015-06-15;

▪ Narda Selective Radiation Meter, Basic Unit, SRM-3006, P/N 3006/01, S/N H-0007:

- *Calibration Certificate No.* 300061-H0007-20141111-249
  Narda STS GmbH, D-72793 Pfullingen, Germany, 2014-11-11;

▪ Antenna, Three-Axis, E-Filed, 27 MHz to 3 GHz, P/N 3501/03, S/N K-0560:

- *Calibration Certificate No.* 350103-K0560-141111
  Narda STS GmbH, D-72793 Pfullingen, Germany, 2014-11-11;

▪ Automatyczna stacja meteorologiczna MAWS – 201C, Vaisala, Finlandia, s. no. G131055:

Świadectwa wzorcowania nr:

- 0537/AH/14 z dnia 08 kwietnia 2014 r. termohigrometr
- 0194/AC/14 z dnia 07 kwietnia 2014 r. barometr

wydane przez Laboratorium Pomiarowe „MUTECH" Tadeusz Mucha i Wspólnicy Sp. J. w Łowiczu (AP 106);

- 175/A/14 z dnia 11 kwietnia 2014 r. anemometr stacji meteo

wydane przez Laboratorium Wzorcujące Wentylacyjne Przyrządy Pomiarowe, Instytut Mechaniki Górotworu PAN w Krakowie (AP 118).

Zastosowana sonda pomiarowa poziomów pól posiada sferyczną charakterystykę kierunkową, a w trakcie realizacji badań znajdowała się na wysokości 2 [m] n.p.t., na dielektrycznym statywie, w odległości d > 100 [m] od rzutu anten instalacji radiokomunikacyjnych na powierzchnię terenu, zgodnie z wymaganiami przedmiotowego Rozporządzenia.

6. INFORMACJE NA TEMAT INSTALACJI RADIOKOMUNIKACYJNYCH, RADIOLOKACYJNYCH, RADIONAWIGACYJNYCH REJONU BADAŃ PÓL ELEKTROMAGNETYCZNYCH *)

(* - *w rozumieniu wymagań przedmiotowego Rozporządzenia*)

Nie dotyczy. W promieniu d ≤ 300 m od P-1, nie są zlokalizowane żadne instalacje radiokomunikacyjne, radiolokacyjne, radionawigacyjne, emitujące pola elektromagnetyczne do środowiska.

7. WYNIKI BADAŃ

Wyniki pomiarów poziomów pól elektromagnetycznych częstotliwości 100 kHz – 3 GHz (składowej *elektrycznej* E) w środowisku

Tabela 2

Lp.	Punkt pomiarowy poziomów pól elektromagnetycznych w środowisku	Natężenie pola elektrycznego E **) [V/m]	Niepewność pomiaru $U_{E\ 0,95}$ [V/m]
1.	P-1 ul. Pomorska Dzielnica - Śródmieście Miasto – Zawiercie	0,71	± 0,18

Objaśnienia:

E **) [V/m] - średnia wartość arytmetyczna wartości skutecznych natężeń pól elektrycznych promieniowania elektromagnetycznego w zakresie częstotliwości 100 kHz – 3 GHz, w danym punkcie obserwacji, w środowisku.

8. ZAŁĄCZNIKI

1. *Raport pomiarowy*
   - w postaci elektronicznej, zarchiwizowany w siedzibie Laboratorium WIOŚ w Katowicach;
2. *Fotografie rejonu badań, szt. 4.*
3. *Szkic sytuacyjny rejonu badań;*
4. *Analiza widma promieniowania elektromagnetycznego, SRM - 3006, Narda STS GmbH, Germany, w przedmiotowym zakresie (Ryc. 1).*

KONIEC SPRAWOZDANIA

Instrument / Site

Meter	Probe	
Model: NBM-550 S/N: B-0507	Model: EF0391 S/N: A-0636	
Calibration Due Date 06.10.2017	Calibration Due Date 06.15.2017	

Site	Coordinates
P-1, ul. Pomorska Miasto - Zawiercie Powiat - zawierciański Województwo - śląskie	Latitude: 50°28'45.3" N Longitude: 19°26'01.1" E

Comment
Pomiary poziomów pól elektromagnetycznych 100 kHz - 3 GHz (składowej elektrycznej E) w środowisku; 18.09.2015 r., Zawiercie, woj. śląskie; Ryc. Wykres zależności zmian natężenia składowej elektrycznej pola w funkcji czasu, marker - wartość średnia max elementarna interwału dT: 10 sec, w przedziale czasokresu obserwacji T: 2.00 h, w środowisku, Program Państwowego Monitoringu Środowiska 2015 rok.

Measured Values

Timer: Start Time 10:02:23 AM, Period 2h 0' 0", Interval 10s

Index	Date/Time	Zero	Max (E-Field)	Avg (E-Field)	Min (E-Field)
1	09/18/2015 10:02:33 AM		0.8939 V/m	0.7805 V/m	0.6741 V/m
2	09/18/2015 10:02:43 AM		0.8843 V/m	0.8094 V/m	0.7248 V/m
3	09/18/2015 10:02:53 AM		0.8040 V/m	0.7536 V/m	0.7106 V/m
4	09/18/2015 10:03:03 AM		0.8263 V/m	0.7366 V/m	0.6753 V/m
5	09/18/2015 10:03:13 AM		0.7498 V/m	0.6847 V/m	0.6445 V/m
6	09/18/2015 10:03:23 AM		0.7443 V/m	0.6911 V/m	0.6449 V/m
7	09/18/2015 10:03:33 AM		0.7996 V/m	0.7071 V/m	0.6250 V/m
8	09/18/2015 10:03:43 AM		0.7350 V/m	0.6689 V/m	0.6161 V/m
9	09/18/2015 10:03:53 AM		0.7297 V/m	0.6452 V/m	0.5722 V/m
10	09/18/2015 10:04:03 AM		0.7619 V/m	0.6665 V/m	0.6090 V/m
11	09/18/2015 10:04:13 AM		0.7324 V/m	0.6801 V/m	0.6385 V/m
12	09/18/2015 10:04:23 AM		0.8435 V/m	0.6987 V/m	0.6504 V/m
13	09/18/2015 10:04:33 AM		0.7600 V/m	0.7007 V/m	0.6416 V/m
14	09/18/2015 10:04:43 AM		0.7480 V/m	0.6912 V/m	0.6538 V/m
15	09/18/2015 10:04:53 AM		0.7275 V/m	0.6768 V/m	0.6406 V/m
16	09/18/2015 10:05:03 AM		0.7747 V/m	0.7239 V/m	0.6643 V/m
17	09/18/2015 10:05:13 AM		0.7730 V/m	0.7102 V/m	0.6667 V/m
18	09/18/2015 10:05:23 AM		0.7328 V/m	0.6884 V/m	0.6411 V/m
19	09/18/2015 10:05:33 AM		0.8356 V/m	0.7104 V/m	0.6534 V/m
20	09/18/2015 10:05:43 AM		0.8852 V/m	0.8020 V/m	0.7068 V/m
21	09/18/2015 10:05:53 AM		0.8102 V/m	0.7345 V/m	0.6757 V/m
22	09/18/2015 10:06:03 AM		0.8159 V/m	0.7588 V/m	0.6997 V/m
23	09/18/2015 10:06:13 AM		0.7906 V/m	0.7353 V/m	0.6559 V/m
24	09/18/2015 10:06:23 AM		0.7961 V/m	0.7428 V/m	0.6930 V/m
25	09/18/2015 10:06:33 AM		0.7687 V/m	0.7286 V/m	0.6938 V/m
26	09/18/2015 10:06:43 AM		0.7954 V/m	0.7251 V/m	0.6725 V/m
27	09/18/2015 10:06:53 AM		0.8340 V/m	0.7505 V/m	0.6886 V/m
28	09/18/2015 10:07:03 AM		0.7899 V/m	0.7174 V/m	0.6588 V/m
29	09/18/2015 10:07:13 AM		0.8458 V/m	0.7300 V/m	0.6638 V/m
30	09/18/2015 10:07:23 AM		0.8142 V/m	0.7546 V/m	0.6886 V/m
31	09/18/2015 10:07:33 AM		0.8247 V/m	0.7591 V/m	0.7176 V/m
32	09/18/2015 10:07:43 AM		0.8326 V/m	0.7666 V/m	0.7279 V/m
33	09/18/2015 10:07:53 AM		0.7965 V/m	0.7471 V/m	0.6990 V/m
34	09/18/2015 10:08:03 AM		0.7972 V/m	0.7470 V/m	0.6962 V/m
35	09/18/2015 10:08:13 AM		0.7818 V/m	0.7350 V/m	0.6930 V/m
36	09/18/2015 10:08:23 AM		0.7804 V/m	0.7185 V/m	0.6810 V/m
37	09/18/2015 10:08:33 AM		0.8717 V/m	0.7727 V/m	0.6814 V/m
38	09/18/2015 10:08:43 AM		0.8122 V/m	0.7427 V/m	0.6814 V/m
39	09/18/2015 10:08:53 AM		0.7769 V/m	0.7203 V/m	0.6778 V/m
40	09/18/2015 10:09:03 AM		0.7954 V/m	0.7295 V/m	0.6761 V/m
41	09/18/2015 10:09:13 AM		0.7878 V/m	0.7146 V/m	0.6729 V/m
42	09/18/2015 10:09:23 AM		0.7829 V/m	0.7057 V/m	0.6717 V/m
43	09/18/2015 10:09:33 AM		0.8240 V/m	0.7212 V/m	0.6576 V/m
44	09/18/2015 10:09:43 AM		0.8441 V/m	0.7339 V/m	0.6576 V/m
45	09/18/2015 10:09:53 AM		0.8837 V/m	0.7576 V/m	0.6471 V/m
46	09/18/2015 10:10:03 AM		0.7626 V/m	0.6963 V/m	0.6385 V/m
47	09/18/2015 10:10:13 AM		0.8102 V/m	0.7268 V/m	0.6651 V/m
48	09/18/2015 10:10:23 AM		0.8027 V/m	0.7338 V/m	0.6942 V/m
49	09/18/2015 10:10:33 AM		0.8237 V/m	0.7389 V/m	0.6942 V/m
50	09/18/2015 10:10:43 AM		0.7740 V/m	0.7240 V/m	0.6712 V/m
51	09/18/2015 10:10:53 AM		0.7836 V/m	0.7101 V/m	0.6688 V/m
52	09/18/2015 10:11:03 AM		0.7982 V/m	0.7479 V/m	0.7099 V/m
53	09/18/2015 10:11:13 AM		0.8013 V/m	0.7215 V/m	0.6647 V/m
54	09/18/2015 10:11:23 AM		0.7800 V/m	0.7306 V/m	0.6914 V/m
55	09/18/2015 10:11:33 AM		0.7654 V/m	0.7088 V/m	0.6838 V/m
56	09/18/2015 10:11:43 AM		0.8484 V/m	0.7539 V/m	0.6757 V/m
57	09/18/2015 10:11:53 AM		0.7836 V/m	0.7337 V/m	0.6601 V/m

58	09/18/2015 10:12:03 AM	0.7786 V/m	0.7102 V/m	0.6613 V/m
59	09/18/2015 10:12:13 AM	0.7410 V/m	0.7055 V/m	0.6667 V/m
60	09/18/2015 10:12:23 AM	0.8336 V/m	0.7537 V/m	0.7017 V/m
61	09/18/2015 10:12:33 AM	0.8448 V/m	0.7319 V/m	0.6761 V/m
62	09/18/2015 10:12:43 AM	0.8006 V/m	0.7445 V/m	0.6838 V/m
63	09/18/2015 10:12:53 AM	0.8303 V/m	0.7173 V/m	0.6712 V/m
64	09/18/2015 10:13:03 AM	0.8490 V/m	0.7584 V/m	0.6926 V/m
65	09/18/2015 10:13:13 AM	0.8313 V/m	0.7545 V/m	0.6938 V/m
66	09/18/2015 10:13:23 AM	0.8568 V/m	0.7807 V/m	0.7044 V/m
67	09/18/2015 10:13:33 AM	0.8660 V/m	0.7235 V/m	0.6588 V/m
68	09/18/2015 10:13:43 AM	0.7662 V/m	0.7301 V/m	0.6926 V/m
69	09/18/2015 10:13:53 AM	0.7324 V/m	0.6924 V/m	0.6513 V/m
70	09/18/2015 10:14:03 AM	0.7804 V/m	0.7133 V/m	0.6675 V/m
71	09/18/2015 10:14:13 AM	0.8369 V/m	0.7321 V/m	0.6842 V/m
72	09/18/2015 10:14:23 AM	0.8233 V/m	0.7342 V/m	0.6778 V/m
73	09/18/2015 10:14:33 AM	0.8382 V/m	0.7611 V/m	0.6655 V/m
74	09/18/2015 10:14:43 AM	0.8356 V/m	0.7123 V/m	0.6394 V/m
75	09/18/2015 10:14:53 AM	0.7290 V/m	0.6827 V/m	0.6462 V/m
76	09/18/2015 10:15:03 AM	0.7797 V/m	0.7113 V/m	0.6663 V/m
77	09/18/2015 10:15:13 AM	0.7647 V/m	0.6952 V/m	0.6492 V/m
78	09/18/2015 10:15:23 AM	0.7237 V/m	0.6758 V/m	0.6298 V/m
79	09/18/2015 10:15:33 AM	0.7954 V/m	0.7057 V/m	0.6232 V/m
80	09/18/2015 10:15:43 AM	0.8095 V/m	0.7449 V/m	0.6597 V/m
81	09/18/2015 10:15:53 AM	0.8233 V/m	0.7227 V/m	0.6530 V/m
82	09/18/2015 10:16:03 AM	0.8105 V/m	0.6825 V/m	0.6376 V/m
83	09/18/2015 10:16:13 AM	0.7107 V/m	0.6719 V/m	0.6350 V/m
84	09/18/2015 10:16:23 AM	0.7256 V/m	0.6858 V/m	0.6432 V/m
85	09/18/2015 10:16:33 AM	0.7469 V/m	0.6960 V/m	0.6593 V/m
86	09/18/2015 10:16:43 AM	0.7248 V/m	0.6748 V/m	0.6289 V/m
87	09/18/2015 10:16:53 AM	0.8409 V/m	0.6977 V/m	0.6424 V/m
88	09/18/2015 10:17:03 AM	0.8078 V/m	0.7048 V/m	0.6483 V/m
89	09/18/2015 10:17:13 AM	0.7406 V/m	0.6847 V/m	0.6492 V/m
90	09/18/2015 10:17:23 AM	0.8454 V/m	0.7759 V/m	0.6462 V/m
91	09/18/2015 10:17:33 AM	0.7176 V/m	0.6890 V/m	0.6588 V/m
92	09/18/2015 10:17:43 AM	0.8622 V/m	0.7063 V/m	0.6651 V/m
93	09/18/2015 10:17:53 AM	0.7316 V/m	0.6553 V/m	0.6232 V/m
94	09/18/2015 10:18:03 AM	0.7715 V/m	0.7222 V/m	0.6700 V/m
95	09/18/2015 10:18:13 AM	0.7432 V/m	0.7079 V/m	0.6688 V/m
96	09/18/2015 10:18:23 AM	0.7391 V/m	0.6929 V/m	0.6559 V/m
97	09/18/2015 10:18:33 AM	0.7369 V/m	0.7017 V/m	0.6622 V/m
98	09/18/2015 10:18:43 AM	0.7611 V/m	0.7138 V/m	0.6729 V/m
99	09/18/2015 10:18:53 AM	0.7730 V/m	0.6973 V/m	0.6428 V/m
100	09/18/2015 10:19:03 AM	0.7410 V/m	0.6888 V/m	0.6588 V/m
101	09/18/2015 10:19:13 AM	0.7199 V/m	0.6681 V/m	0.6394 V/m
102	09/18/2015 10:19:23 AM	0.7226 V/m	0.6835 V/m	0.6436 V/m
103	09/18/2015 10:19:33 AM	0.6970 V/m	0.6664 V/m	0.6487 V/m
104	09/18/2015 10:19:43 AM	0.7339 V/m	0.6870 V/m	0.6415 V/m
105	09/18/2015 10:19:53 AM	0.8075 V/m	0.7089 V/m	0.6708 V/m
106	09/18/2015 10:20:03 AM	0.7797 V/m	0.6929 V/m	0.6530 V/m
107	09/18/2015 10:20:13 AM	0.7874 V/m	0.6966 V/m	0.6675 V/m
108	09/18/2015 10:20:23 AM	0.7975 V/m	0.6883 V/m	0.6542 V/m
109	09/18/2015 10:20:33 AM	0.8428 V/m	0.7064 V/m	0.6663 V/m
110	09/18/2015 10:20:43 AM	0.8600 V/m	0.7142 V/m	0.6846 V/m
111	09/18/2015 10:20:53 AM	0.8657 V/m	0.7624 V/m	0.6894 V/m
112	09/18/2015 10:21:03 AM	0.8369 V/m	0.7210 V/m	0.6613 V/m
113	09/18/2015 10:21:13 AM	0.7600 V/m	0.7092 V/m	0.6798 V/m
114	09/18/2015 10:21:23 AM	0.7701 V/m	0.7253 V/m	0.6822 V/m
115	09/18/2015 10:21:33 AM	0.7517 V/m	0.7070 V/m	0.6741 V/m
116	09/18/2015 10:21:43 AM	0.7937 V/m	0.7417 V/m	0.6700 V/m
117	09/18/2015 10:21:53 AM	0.8146 V/m	0.7681 V/m	0.7009 V/m
118	09/18/2015 10:22:03 AM	0.7783 V/m	0.6901 V/m	0.6470 V/m
119	09/18/2015 10:22:13 AM	0.7832 V/m	0.7070 V/m	0.6634 V/m
120	09/18/2015 10:22:23 AM	0.7701 V/m	0.7053 V/m	0.6576 V/m

121	09/18/2015 10:22:33 AM	0.7222 V/m	0.6912 V/m	0.6655 V/m
122	09/18/2015 10:22:43 AM	0.8692 V/m	0.7663 V/m	0.6584 V/m
123	09/18/2015 10:22:53 AM	0.8571 V/m	0.7672 V/m	0.6950 V/m
124	09/18/2015 10:23:03 AM	0.7491 V/m	0.7104 V/m	0.6810 V/m
125	09/18/2015 10:23:13 AM	0.7640 V/m	0.7104 V/m	0.6500 V/m
126	09/18/2015 10:23:23 AM	0.7373 V/m	0.6872 V/m	0.6563 V/m
127	09/18/2015 10:23:33 AM	0.7145 V/m	0.6708 V/m	0.6402 V/m
128	09/18/2015 10:23:43 AM	0.7701 V/m	0.6898 V/m	0.6613 V/m
129	09/18/2015 10:23:53 AM	0.7465 V/m	0.6905 V/m	0.6593 V/m
130	09/18/2015 10:24:03 AM	0.7443 V/m	0.7111 V/m	0.6770 V/m
131	09/18/2015 10:24:13 AM	0.7252 V/m	0.6952 V/m	0.6638 V/m
132	09/18/2015 10:24:23 AM	0.8105 V/m	0.7180 V/m	0.6733 V/m
133	09/18/2015 10:24:33 AM	0.7633 V/m	0.7021 V/m	0.6584 V/m
134	09/18/2015 10:24:43 AM	0.7044 V/m	0.6700 V/m	0.6466 V/m
135	09/18/2015 10:24:53 AM	0.7491 V/m	0.7104 V/m	0.6814 V/m
136	09/18/2015 10:25:03 AM	0.7491 V/m	0.7141 V/m	0.6504 V/m
137	09/18/2015 10:25:13 AM	0.7480 V/m	0.7238 V/m	0.6922 V/m
138	09/18/2015 10:25:23 AM	0.8389 V/m	0.7390 V/m	0.6966 V/m
139	09/18/2015 10:25:33 AM	0.7476 V/m	0.7162 V/m	0.6870 V/m
140	09/18/2015 10:25:43 AM	0.8727 V/m	0.7721 V/m	0.6725 V/m
141	09/18/2015 10:25:53 AM	0.8743 V/m	0.7463 V/m	0.6613 V/m
142	09/18/2015 10:26:03 AM	0.7298 V/m	0.6878 V/m	0.6584 V/m
143	09/18/2015 10:26:13 AM	0.7783 V/m	0.7000 V/m	0.6597 V/m
144	09/18/2015 10:26:23 AM	0.7339 V/m	0.6931 V/m	0.6609 V/m
145	09/18/2015 10:26:33 AM	0.7560 V/m	0.7278 V/m	0.6962 V/m
146	09/18/2015 10:26:43 AM	0.7369 V/m	0.6778 V/m	0.6487 V/m
147	09/18/2015 10:26:53 AM	0.7909 V/m	0.6894 V/m	0.6415 V/m
148	09/18/2015 10:27:03 AM	0.7528 V/m	0.7044 V/m	0.6542 V/m
149	09/18/2015 10:27:13 AM	0.7916 V/m	0.7438 V/m	0.6970 V/m
150	09/18/2015 10:27:23 AM	0.7776 V/m	0.7108 V/m	0.6842 V/m
151	09/18/2015 10:27:33 AM	0.8458 V/m	0.7494 V/m	0.6890 V/m
152	09/18/2015 10:27:43 AM	0.8041 V/m	0.7357 V/m	0.6910 V/m
153	09/18/2015 10:27:53 AM	0.7962 V/m	0.7529 V/m	0.7195 V/m
154	09/18/2015 10:28:03 AM	0.8552 V/m	0.7558 V/m	0.7005 V/m
155	09/18/2015 10:28:13 AM	0.7857 V/m	0.7447 V/m	0.7009 V/m
156	09/18/2015 10:28:23 AM	0.8474 V/m	0.7600 V/m	0.6854 V/m
157	09/18/2015 10:28:33 AM	0.7853 V/m	0.7455 V/m	0.6974 V/m
158	09/18/2015 10:28:43 AM	0.8037 V/m	0.7308 V/m	0.6762 V/m
159	09/18/2015 10:28:53 AM	0.7586 V/m	0.7079 V/m	0.6766 V/m
160	09/18/2015 10:29:03 AM	0.7557 V/m	0.6842 V/m	0.6316 V/m
161	09/18/2015 10:29:13 AM	0.7203 V/m	0.6704 V/m	0.6276 V/m
162	09/18/2015 10:29:23 AM	0.7719 V/m	0.6990 V/m	0.6333 V/m
163	09/18/2015 10:29:33 AM	0.7913 V/m	0.7572 V/m	0.6954 V/m
164	09/18/2015 10:29:43 AM	0.7751 V/m	0.7216 V/m	0.6778 V/m
165	09/18/2015 10:29:53 AM	0.7380 V/m	0.6618 V/m	0.6307 V/m
166	09/18/2015 10:30:03 AM	0.7001 V/m	0.6657 V/m	0.6424 V/m
167	09/18/2015 10:30:13 AM	0.7881 V/m	0.7005 V/m	0.6601 V/m
168	09/18/2015 10:30:23 AM	0.7811 V/m	0.6992 V/m	0.6651 V/m
169	09/18/2015 10:30:33 AM	0.7564 V/m	0.6786 V/m	0.6542 V/m
170	09/18/2015 10:30:43 AM	0.7705 V/m	0.6872 V/m	0.6517 V/m
171	09/18/2015 10:30:53 AM	0.8313 V/m	0.7197 V/m	0.6530 V/m
172	09/18/2015 10:31:03 AM	0.7937 V/m	0.6967 V/m	0.6568 V/m
173	09/18/2015 10:31:13 AM	0.7110 V/m	0.6871 V/m	0.6546 V/m
174	09/18/2015 10:31:23 AM	0.7930 V/m	0.6983 V/m	0.6622 V/m
175	09/18/2015 10:31:33 AM	0.7881 V/m	0.7070 V/m	0.6725 V/m
176	09/18/2015 10:31:43 AM	0.7597 V/m	0.7094 V/m	0.6626 V/m
177	09/18/2015 10:31:53 AM	0.7275 V/m	0.6975 V/m	0.6712 V/m
178	09/18/2015 10:32:03 AM	0.8581 V/m	0.8259 V/m	0.7187 V/m
179	09/18/2015 10:32:13 AM	0.8386 V/m	0.7027 V/m	0.6584 V/m
180	09/18/2015 10:32:23 AM	0.6978 V/m	0.6651 V/m	0.6419 V/m
181	09/18/2015 10:32:33 AM	0.7187 V/m	0.6699 V/m	0.6483 V/m
182	09/18/2015 10:32:43 AM	0.7328 V/m	0.6612 V/m	0.6188 V/m
183	09/18/2015 10:32:53 AM	0.8705 V/m	0.7216 V/m	0.6333 V/m

184	09/18/2015 10:33:03 AM	0.8739 V/m	0.7288 V/m	0.6530 V/m
185	09/18/2015 10:33:13 AM	0.7644 V/m	0.6950 V/m	0.6659 V/m
186	09/18/2015 10:33:23 AM	0.7458 V/m	0.6696 V/m	0.6406 V/m
187	09/18/2015 10:33:33 AM	0.7361 V/m	0.6797 V/m	0.6453 V/m
188	09/18/2015 10:33:43 AM	0.7021 V/m	0.6630 V/m	0.6479 V/m
189	09/18/2015 10:33:53 AM	0.7615 V/m	0.6860 V/m	0.6355 V/m
190	09/18/2015 10:34:03 AM	0.7145 V/m	0.6703 V/m	0.6237 V/m
191	09/18/2015 10:34:13 AM	0.6982 V/m	0.6605 V/m	0.6302 V/m
192	09/18/2015 10:34:23 AM	0.6890 V/m	0.6660 V/m	0.6415 V/m
193	09/18/2015 10:34:33 AM	0.7376 V/m	0.6853 V/m	0.6534 V/m
194	09/18/2015 10:34:43 AM	0.7091 V/m	0.6760 V/m	0.6588 V/m
195	09/18/2015 10:34:53 AM	0.7450 V/m	0.6957 V/m	0.6692 V/m
196	09/18/2015 10:35:03 AM	0.7636 V/m	0.7073 V/m	0.6675 V/m
197	09/18/2015 10:35:13 AM	0.7256 V/m	0.6946 V/m	0.6593 V/m
198	09/18/2015 10:35:23 AM	0.7432 V/m	0.6918 V/m	0.6580 V/m
199	09/18/2015 10:35:33 AM	0.7252 V/m	0.6846 V/m	0.6517 V/m
200	09/18/2015 10:35:43 AM	0.7260 V/m	0.6949 V/m	0.6676 V/m
201	09/18/2015 10:35:53 AM	0.7622 V/m	0.7202 V/m	0.6934 V/m
202	09/18/2015 10:36:03 AM	0.7520 V/m	0.7064 V/m	0.6713 V/m
203	09/18/2015 10:36:13 AM	0.7487 V/m	0.6862 V/m	0.6294 V/m
204	09/18/2015 10:36:23 AM	0.7846 V/m	0.7072 V/m	0.6609 V/m
205	09/18/2015 10:36:33 AM	0.7874 V/m	0.7217 V/m	0.6906 V/m
206	09/18/2015 10:36:43 AM	0.7443 V/m	0.6797 V/m	0.6333 V/m
207	09/18/2015 10:36:53 AM	0.7719 V/m	0.7050 V/m	0.6605 V/m
208	09/18/2015 10:37:03 AM	0.7233 V/m	0.6890 V/m	0.6479 V/m
209	09/18/2015 10:37:13 AM	0.7358 V/m	0.6940 V/m	0.6630 V/m
210	09/18/2015 10:37:23 AM	0.7328 V/m	0.6914 V/m	0.6546 V/m
211	09/18/2015 10:37:33 AM	0.7600 V/m	0.7129 V/m	0.6704 V/m
212	09/18/2015 10:37:43 AM	0.7637 V/m	0.7166 V/m	0.6858 V/m
213	09/18/2015 10:37:53 AM	0.7454 V/m	0.7099 V/m	0.6745 V/m
214	09/18/2015 10:38:03 AM	0.7199 V/m	0.6952 V/m	0.6749 V/m
215	09/18/2015 10:38:13 AM	0.7339 V/m	0.6969 V/m	0.6572 V/m
216	09/18/2015 10:38:23 AM	0.7633 V/m	0.7200 V/m	0.6559 V/m
217	09/18/2015 10:38:33 AM	0.7260 V/m	0.6870 V/m	0.6525 V/m
218	09/18/2015 10:38:43 AM	0.7902 V/m	0.7217 V/m	0.6721 V/m
219	09/18/2015 10:38:53 AM	0.7203 V/m	0.6962 V/m	0.6729 V/m
220	09/18/2015 10:39:03 AM	0.7279 V/m	0.6993 V/m	0.6721 V/m
221	09/18/2015 10:39:13 AM	0.7229 V/m	0.6880 V/m	0.6618 V/m
222	09/18/2015 10:39:23 AM	0.7248 V/m	0.6894 V/m	0.6614 V/m
223	09/18/2015 10:39:33 AM	0.7619 V/m	0.7057 V/m	0.6761 V/m
224	09/18/2015 10:39:43 AM	0.7542 V/m	0.7088 V/m	0.6858 V/m
225	09/18/2015 10:39:53 AM	0.7972 V/m	0.7319 V/m	0.6867 V/m
226	09/18/2015 10:40:03 AM	0.7546 V/m	0.6970 V/m	0.6605 V/m
227	09/18/2015 10:40:13 AM	0.8758 V/m	0.7525 V/m	0.6717 V/m
228	09/18/2015 10:40:23 AM	0.7309 V/m	0.7016 V/m	0.6675 V/m
229	09/18/2015 10:40:33 AM	0.8003 V/m	0.7123 V/m	0.6572 V/m
230	09/18/2015 10:40:43 AM	0.7358 V/m	0.6956 V/m	0.6572 V/m
231	09/18/2015 10:40:53 AM	0.7615 V/m	0.7077 V/m	0.6745 V/m
232	09/18/2015 10:41:03 AM	0.7531 V/m	0.6959 V/m	0.6601 V/m
233	09/18/2015 10:41:13 AM	0.7421 V/m	0.7027 V/m	0.6729 V/m
234	09/18/2015 10:41:23 AM	0.7294 V/m	0.6817 V/m	0.6509 V/m
235	09/18/2015 10:41:33 AM	0.7783 V/m	0.6993 V/m	0.6642 V/m
236	09/18/2015 10:41:43 AM	0.8064 V/m	0.7221 V/m	0.6725 V/m
237	09/18/2015 10:41:53 AM	0.8095 V/m	0.7149 V/m	0.6692 V/m
238	09/18/2015 10:42:03 AM	0.8781 V/m	0.7687 V/m	0.7122 V/m
239	09/18/2015 10:42:13 AM	0.7640 V/m	0.7231 V/m	0.6741 V/m
240	09/18/2015 10:42:23 AM	0.7804 V/m	0.7320 V/m	0.6950 V/m
241	09/18/2015 10:42:33 AM	0.8166 V/m	0.7544 V/m	0.7037 V/m
242	09/18/2015 10:42:43 AM	0.8247 V/m	0.7404 V/m	0.7095 V/m
243	09/18/2015 10:42:53 AM	0.7853 V/m	0.7303 V/m	0.6966 V/m
244	09/18/2015 10:43:03 AM	0.7965 V/m	0.7283 V/m	0.6782 V/m
245	09/18/2015 10:43:13 AM	0.7586 V/m	0.7166 V/m	0.6902 V/m
246	09/18/2015 10:43:23 AM	0.7410 V/m	0.6995 V/m	0.6790 V/m

247	09/18/2015 10:43:33 AM	0.7747 V/m	0.7226 V/m	0.6757 V/m
248	09/18/2015 10:43:43 AM	0.7934 V/m	0.7412 V/m	0.6922 V/m
249	09/18/2015 10:43:53 AM	0.8085 V/m	0.7049 V/m	0.6630 V/m
250	09/18/2015 10:44:03 AM	0.7832 V/m	0.7142 V/m	0.6563 V/m
251	09/18/2015 10:44:13 AM	0.7060 V/m	0.6694 V/m	0.6285 V/m
252	09/18/2015 10:44:23 AM	0.7387 V/m	0.6639 V/m	0.6389 V/m
253	09/18/2015 10:44:33 AM	0.6962 V/m	0.6658 V/m	0.6350 V/m
254	09/18/2015 10:44:43 AM	0.7487 V/m	0.6782 V/m	0.6479 V/m
255	09/18/2015 10:44:53 AM	0.7187 V/m	0.6782 V/m	0.6534 V/m
256	09/18/2015 10:45:03 AM	0.7290 V/m	0.6920 V/m	0.6634 V/m
257	09/18/2015 10:45:13 AM	0.7271 V/m	0.6892 V/m	0.6651 V/m
258	09/18/2015 10:45:23 AM	0.7428 V/m	0.7016 V/m	0.6538 V/m
259	09/18/2015 10:45:33 AM	0.7733 V/m	0.6850 V/m	0.6188 V/m
260	09/18/2015 10:45:43 AM	0.7328 V/m	0.6631 V/m	0.5911 V/m
261	09/18/2015 10:45:53 AM	0.7549 V/m	0.7030 V/m	0.6676 V/m
262	09/18/2015 10:46:03 AM	0.7248 V/m	0.6902 V/m	0.6692 V/m
263	09/18/2015 10:46:13 AM	0.7256 V/m	0.6758 V/m	0.6389 V/m
264	09/18/2015 10:46:23 AM	0.6958 V/m	0.6642 V/m	0.6441 V/m
265	09/18/2015 10:46:33 AM	0.7480 V/m	0.6990 V/m	0.6688 V/m
266	09/18/2015 10:46:43 AM	0.7052 V/m	0.6801 V/m	0.6593 V/m
267	09/18/2015 10:46:53 AM	0.7564 V/m	0.6861 V/m	0.6415 V/m
268	09/18/2015 10:47:03 AM	0.7447 V/m	0.6862 V/m	0.6576 V/m
269	09/18/2015 10:47:13 AM	0.7264 V/m	0.6975 V/m	0.6605 V/m
270	09/18/2015 10:47:23 AM	0.7454 V/m	0.6909 V/m	0.6613 V/m
271	09/18/2015 10:47:33 AM	0.7633 V/m	0.7249 V/m	0.6810 V/m
272	09/18/2015 10:47:43 AM	0.7783 V/m	0.7193 V/m	0.6806 V/m
273	09/18/2015 10:47:53 AM	0.7417 V/m	0.6954 V/m	0.6692 V/m
274	09/18/2015 10:48:03 AM	0.8213 V/m	0.7143 V/m	0.6547 V/m
275	09/18/2015 10:48:13 AM	0.7608 V/m	0.6853 V/m	0.6542 V/m
276	09/18/2015 10:48:23 AM	0.7313 V/m	0.6997 V/m	0.6721 V/m
277	09/18/2015 10:48:33 AM	0.7052 V/m	0.6824 V/m	0.6513 V/m
278	09/18/2015 10:48:43 AM	0.7248 V/m	0.6996 V/m	0.6675 V/m
279	09/18/2015 10:48:53 AM	0.7376 V/m	0.6953 V/m	0.6671 V/m
280	09/18/2015 10:49:03 AM	0.7673 V/m	0.6994 V/m	0.6605 V/m
281	09/18/2015 10:49:13 AM	0.7798 V/m	0.6769 V/m	0.5855 V/m
282	09/18/2015 10:49:23 AM	0.7629 V/m	0.6903 V/m	0.6364 V/m
283	09/18/2015 10:49:33 AM	0.7589 V/m	0.6984 V/m	0.6538 V/m
284	09/18/2015 10:49:43 AM	0.7110 V/m	0.6736 V/m	0.6398 V/m
285	09/18/2015 10:49:53 AM	0.7388 V/m	0.6934 V/m	0.6534 V/m
286	09/18/2015 10:50:03 AM	0.7484 V/m	0.7012 V/m	0.6688 V/m
287	09/18/2015 10:50:13 AM	0.7172 V/m	0.6702 V/m	0.6359 V/m
288	09/18/2015 10:50:23 AM	0.6962 V/m	0.6677 V/m	0.6500 V/m
289	09/18/2015 10:50:33 AM	0.7524 V/m	0.6915 V/m	0.6492 V/m
290	09/18/2015 10:50:43 AM	0.7372 V/m	0.6667 V/m	0.6466 V/m
291	09/18/2015 10:50:53 AM	0.8109 V/m	0.7037 V/m	0.6513 V/m
292	09/18/2015 10:51:03 AM	0.7502 V/m	0.6910 V/m	0.6517 V/m
293	09/18/2015 10:51:13 AM	0.7013 V/m	0.6782 V/m	0.6547 V/m
294	09/18/2015 10:51:23 AM	0.7172 V/m	0.6762 V/m	0.6125 V/m
295	09/18/2015 10:51:33 AM	0.7432 V/m	0.6854 V/m	0.6580 V/m
296	09/18/2015 10:51:43 AM	0.7267 V/m	0.6886 V/m	0.6568 V/m
297	09/18/2015 10:51:53 AM	0.8132 V/m	0.6933 V/m	0.6534 V/m
298	09/18/2015 10:52:03 AM	0.7406 V/m	0.6916 V/m	0.6479 V/m
299	09/18/2015 10:52:13 AM	0.8047 V/m	0.6845 V/m	0.6576 V/m
300	09/18/2015 10:52:23 AM	0.8273 V/m	0.7404 V/m	0.6593 V/m
301	09/18/2015 10:52:33 AM	0.8033 V/m	0.7230 V/m	0.6696 V/m
302	09/18/2015 10:52:43 AM	0.7402 V/m	0.6914 V/m	0.6580 V/m
303	09/18/2015 10:52:53 AM	0.7690 V/m	0.7006 V/m	0.6525 V/m
304	09/18/2015 10:53:03 AM	0.7395 V/m	0.6752 V/m	0.6329 V/m
305	09/18/2015 10:53:13 AM	0.7502 V/m	0.6931 V/m	0.6667 V/m
306	09/18/2015 10:53:23 AM	0.7414 V/m	0.6875 V/m	0.6479 V/m
307	09/18/2015 10:53:33 AM	0.7443 V/m	0.6763 V/m	0.6445 V/m
308	09/18/2015 10:53:43 AM	0.8102 V/m	0.7108 V/m	0.6680 V/m
309	09/18/2015 10:53:53 AM	0.7033 V/m	0.6841 V/m	0.6470 V/m

310	09/18/2015 10:54:03 AM	0.7575 V/m	0.6858 V/m	0.6419 V/m
311	09/18/2015 10:54:13 AM	0.7241 V/m	0.6816 V/m	0.6487 V/m
312	09/18/2015 10:54:23 AM	0.7229 V/m	0.6749 V/m	0.6423 V/m
313	09/18/2015 10:54:33 AM	0.7469 V/m	0.6755 V/m	0.6324 V/m
314	09/18/2015 10:54:43 AM	0.7380 V/m	0.7047 V/m	0.6712 V/m
315	09/18/2015 10:54:53 AM	0.7428 V/m	0.7085 V/m	0.6854 V/m
316	09/18/2015 10:55:03 AM	0.7697 V/m	0.7104 V/m	0.6818 V/m
317	09/18/2015 10:55:13 AM	0.7790 V/m	0.6851 V/m	0.6419 V/m
318	09/18/2015 10:55:23 AM	0.7168 V/m	0.6766 V/m	0.6496 V/m
319	09/18/2015 10:55:33 AM	0.7402 V/m	0.6746 V/m	0.6376 V/m
320	09/18/2015 10:55:43 AM	0.6733 V/m	0.6460 V/m	0.6223 V/m
321	09/18/2015 10:55:53 AM	0.6826 V/m	0.6472 V/m	0.6298 V/m
322	09/18/2015 10:56:03 AM	0.6906 V/m	0.6515 V/m	0.6161 V/m
323	09/18/2015 10:56:13 AM	0.7358 V/m	0.6870 V/m	0.6381 V/m
324	09/18/2015 10:56:23 AM	0.7279 V/m	0.6786 V/m	0.6381 V/m
325	09/18/2015 10:56:33 AM	0.6970 V/m	0.6632 V/m	0.6368 V/m
326	09/18/2015 10:56:43 AM	0.6978 V/m	0.6529 V/m	0.6228 V/m
327	09/18/2015 10:56:53 AM	0.7354 V/m	0.6849 V/m	0.6504 V/m
328	09/18/2015 10:57:03 AM	0.7428 V/m	0.6946 V/m	0.6483 V/m
329	09/18/2015 10:57:13 AM	0.7218 V/m	0.6762 V/m	0.6394 V/m
330	09/18/2015 10:57:23 AM	0.7160 V/m	0.6736 V/m	0.6411 V/m
331	09/18/2015 10:57:33 AM	0.6985 V/m	0.6548 V/m	0.6289 V/m
332	09/18/2015 10:57:43 AM	0.7358 V/m	0.7080 V/m	0.6846 V/m
333	09/18/2015 10:57:53 AM	0.7669 V/m	0.6926 V/m	0.6588 V/m
334	09/18/2015 10:58:03 AM	0.7160 V/m	0.6730 V/m	0.6441 V/m
335	09/18/2015 10:58:13 AM	0.6918 V/m	0.6568 V/m	0.6263 V/m
336	09/18/2015 10:58:23 AM	0.7410 V/m	0.6968 V/m	0.6576 V/m
337	09/18/2015 10:58:33 AM	0.7331 V/m	0.6921 V/m	0.6559 V/m
338	09/18/2015 10:58:43 AM	0.7524 V/m	0.6986 V/m	0.6667 V/m
339	09/18/2015 10:58:53 AM	0.6826 V/m	0.6592 V/m	0.6333 V/m
340	09/18/2015 10:59:03 AM	0.7048 V/m	0.6733 V/m	0.6509 V/m
341	09/18/2015 10:59:13 AM	0.7107 V/m	0.6821 V/m	0.6568 V/m
342	09/18/2015 10:59:23 AM	0.7769 V/m	0.7186 V/m	0.6675 V/m
343	09/18/2015 10:59:33 AM	0.7233 V/m	0.6817 V/m	0.6445 V/m
344	09/18/2015 10:59:43 AM	0.7176 V/m	0.6823 V/m	0.6424 V/m
345	09/18/2015 10:59:53 AM	0.7380 V/m	0.6779 V/m	0.6381 V/m
346	09/18/2015 11:00:03 AM	0.7087 V/m	0.6675 V/m	0.6337 V/m
347	09/18/2015 11:00:13 AM	0.7044 V/m	0.6715 V/m	0.6526 V/m
348	09/18/2015 11:00:23 AM	0.6954 V/m	0.6666 V/m	0.6394 V/m
349	09/18/2015 11:00:33 AM	0.7079 V/m	0.6691 V/m	0.6415 V/m
350	09/18/2015 11:00:43 AM	0.7324 V/m	0.7059 V/m	0.6826 V/m
351	09/18/2015 11:00:53 AM	0.7324 V/m	0.7072 V/m	0.6647 V/m
352	09/18/2015 11:01:03 AM	0.7165 V/m	0.6780 V/m	0.6402 V/m
353	09/18/2015 11:01:13 AM	0.7052 V/m	0.6816 V/m	0.6517 V/m
354	09/18/2015 11:01:23 AM	0.7195 V/m	0.6888 V/m	0.6634 V/m
355	09/18/2015 11:01:33 AM	0.7343 V/m	0.6882 V/m	0.6530 V/m
356	09/18/2015 11:01:43 AM	0.7134 V/m	0.6873 V/m	0.6580 V/m
357	09/18/2015 11:01:53 AM	0.7730 V/m	0.6950 V/m	0.6555 V/m
358	09/18/2015 11:02:03 AM	0.7248 V/m	0.6788 V/m	0.6453 V/m
359	09/18/2015 11:02:13 AM	0.7301 V/m	0.6808 V/m	0.6453 V/m
360	09/18/2015 11:02:23 AM	0.8041 V/m	0.6977 V/m	0.6538 V/m
361	09/18/2015 11:02:33 AM	0.7542 V/m	0.6959 V/m	0.6372 V/m
362	09/18/2015 11:02:43 AM	0.7037 V/m	0.6695 V/m	0.6272 V/m
363	09/18/2015 11:02:53 AM	0.7245 V/m	0.6803 V/m	0.6058 V/m
364	09/18/2015 11:03:03 AM	0.7358 V/m	0.7099 V/m	0.6745 V/m
365	09/18/2015 11:03:13 AM	0.7199 V/m	0.6792 V/m	0.6201 V/m
366	09/18/2015 11:03:23 AM	0.8092 V/m	0.6857 V/m	0.6359 V/m
367	09/18/2015 11:03:33 AM	0.7358 V/m	0.6842 V/m	0.6415 V/m
368	09/18/2015 11:03:43 AM	0.7079 V/m	0.6580 V/m	0.6303 V/m
369	09/18/2015 11:03:53 AM	0.7168 V/m	0.6896 V/m	0.6496 V/m
370	09/18/2015 11:04:03 AM	0.7134 V/m	0.6881 V/m	0.6458 V/m
371	09/18/2015 11:04:13 AM	0.7260 V/m	0.6997 V/m	0.6605 V/m
372	09/18/2015 11:04:23 AM	0.7406 V/m	0.7123 V/m	0.6854 V/m

373	09/18/2015 11:04:33 AM	0.7091 V/m	0.6753 V/m	0.6376 V/m
374	09/18/2015 11:04:43 AM	0.7107 V/m	0.6707 V/m	0.6161 V/m
375	09/18/2015 11:04:53 AM	0.7056 V/m	0.6845 V/m	0.6675 V/m
376	09/18/2015 11:05:03 AM	0.7033 V/m	0.6774 V/m	0.6534 V/m
377	09/18/2015 11:05:13 AM	0.7414 V/m	0.6889 V/m	0.6487 V/m
378	09/18/2015 11:05:23 AM	0.7252 V/m	0.6905 V/m	0.6613 V/m
379	09/18/2015 11:05:33 AM	0.7647 V/m	0.6983 V/m	0.6513 V/m
380	09/18/2015 11:05:43 AM	0.7203 V/m	0.6776 V/m	0.6458 V/m
381	09/18/2015 11:05:53 AM	0.7705 V/m	0.6843 V/m	0.6483 V/m
382	09/18/2015 11:06:03 AM	0.7184 V/m	0.6696 V/m	0.6521 V/m
383	09/18/2015 11:06:13 AM	0.7122 V/m	0.6732 V/m	0.6483 V/m
384	09/18/2015 11:06:23 AM	0.8220 V/m	0.6936 V/m	0.6667 V/m
385	09/18/2015 11:06:33 AM	0.7719 V/m	0.7001 V/m	0.6622 V/m
386	09/18/2015 11:06:43 AM	0.8016 V/m	0.7003 V/m	0.6609 V/m
387	09/18/2015 11:06:53 AM	0.8451 V/m	0.7168 V/m	0.6411 V/m
388	09/18/2015 11:07:03 AM	0.7825 V/m	0.6923 V/m	0.6622 V/m
389	09/18/2015 11:07:13 AM	0.7776 V/m	0.7153 V/m	0.6696 V/m
390	09/18/2015 11:07:23 AM	0.7748 V/m	0.7248 V/m	0.6902 V/m
391	09/18/2015 11:07:33 AM	0.7454 V/m	0.7057 V/m	0.6588 V/m
392	09/18/2015 11:07:43 AM	0.8203 V/m	0.7072 V/m	0.6509 V/m
393	09/18/2015 11:07:53 AM	0.7557 V/m	0.6939 V/m	0.6263 V/m
394	09/18/2015 11:08:03 AM	0.7509 V/m	0.6889 V/m	0.6368 V/m
395	09/18/2015 11:08:13 AM	0.7498 V/m	0.6949 V/m	0.6688 V/m
396	09/18/2015 11:08:23 AM	0.7229 V/m	0.6945 V/m	0.6663 V/m
397	09/18/2015 11:08:33 AM	0.7779 V/m	0.6982 V/m	0.6517 V/m
398	09/18/2015 11:08:43 AM	0.7557 V/m	0.6989 V/m	0.6534 V/m
399	09/18/2015 11:08:53 AM	0.7210 V/m	0.6783 V/m	0.6479 V/m
400	09/18/2015 11:09:03 AM	0.7091 V/m	0.6695 V/m	0.6424 V/m
401	09/18/2015 11:09:13 AM	0.7425 V/m	0.6682 V/m	0.6381 V/m
402	09/18/2015 11:09:23 AM	0.7786 V/m	0.7186 V/m	0.6659 V/m
403	09/18/2015 11:09:33 AM	0.8200 V/m	0.6963 V/m	0.6551 V/m
404	09/18/2015 11:09:43 AM	0.7611 V/m	0.6815 V/m	0.6355 V/m
405	09/18/2015 11:09:53 AM	0.8471 V/m	0.7181 V/m	0.6534 V/m
406	09/18/2015 11:10:03 AM	0.7298 V/m	0.6556 V/m	0.6254 V/m
407	09/18/2015 11:10:13 AM	0.7095 V/m	0.6693 V/m	0.6372 V/m
408	09/18/2015 11:10:23 AM	0.7571 V/m	0.6877 V/m	0.6376 V/m
409	09/18/2015 11:10:33 AM	0.8085 V/m	0.6855 V/m	0.6228 V/m
410	09/18/2015 11:10:43 AM	0.7513 V/m	0.6978 V/m	0.6487 V/m
411	09/18/2015 11:10:53 AM	0.7843 V/m	0.6965 V/m	0.6355 V/m
412	09/18/2015 11:11:03 AM	0.7176 V/m	0.6728 V/m	0.6466 V/m
413	09/18/2015 11:11:13 AM	0.7647 V/m	0.7018 V/m	0.6381 V/m
414	09/18/2015 11:11:23 AM	0.7916 V/m	0.6734 V/m	0.6241 V/m
415	09/18/2015 11:11:33 AM	0.7029 V/m	0.6762 V/m	0.6479 V/m
416	09/18/2015 11:11:43 AM	0.7237 V/m	0.6836 V/m	0.6534 V/m
417	09/18/2015 11:11:53 AM	0.7406 V/m	0.6868 V/m	0.6597 V/m
418	09/18/2015 11:12:03 AM	0.7241 V/m	0.6907 V/m	0.6647 V/m
419	09/18/2015 11:12:13 AM	0.8631 V/m	0.7391 V/m	0.6667 V/m
420	09/18/2015 11:12:23 AM	0.8319 V/m	0.7141 V/m	0.6475 V/m
421	09/18/2015 11:12:33 AM	0.8277 V/m	0.7095 V/m	0.6509 V/m
422	09/18/2015 11:12:43 AM	0.8223 V/m	0.7153 V/m	0.6647 V/m
423	09/18/2015 11:12:53 AM	0.8545 V/m	0.7221 V/m	0.6398 V/m
424	09/18/2015 11:13:03 AM	0.7172 V/m	0.6789 V/m	0.6483 V/m
425	09/18/2015 11:13:13 AM	0.8399 V/m	0.6768 V/m	0.6381 V/m
426	09/18/2015 11:13:23 AM	0.8013 V/m	0.6814 V/m	0.6479 V/m
427	09/18/2015 11:13:33 AM	0.7484 V/m	0.6972 V/m	0.6688 V/m
428	09/18/2015 11:13:43 AM	0.7958 V/m	0.6897 V/m	0.6436 V/m
429	09/18/2015 11:13:53 AM	0.7797 V/m	0.6969 V/m	0.6725 V/m
430	09/18/2015 11:14:03 AM	0.7218 V/m	0.6815 V/m	0.6547 V/m
431	09/18/2015 11:14:13 AM	0.6906 V/m	0.6723 V/m	0.6393 V/m
432	09/18/2015 11:14:23 AM	0.7772 V/m	0.6860 V/m	0.6346 V/m
433	09/18/2015 11:14:33 AM	0.7195 V/m	0.6932 V/m	0.6708 V/m
434	09/18/2015 11:14:43 AM	0.7134 V/m	0.6863 V/m	0.6504 V/m
435	09/18/2015 11:14:53 AM	0.7137 V/m	0.6705 V/m	0.6449 V/m

436	09/18/2015 11:15:03 AM	0.7017 V/m	0.6746 V/m	0.6492 V/m
437	09/18/2015 11:15:13 AM	0.7346 V/m	0.6875 V/m	0.6496 V/m
438	09/18/2015 11:15:23 AM	0.7248 V/m	0.6916 V/m	0.6655 V/m
439	09/18/2015 11:15:33 AM	0.6997 V/m	0.6698 V/m	0.6479 V/m
440	09/18/2015 11:15:43 AM	0.7184 V/m	0.6842 V/m	0.6572 V/m
441	09/18/2015 11:15:53 AM	0.6962 V/m	0.6726 V/m	0.6432 V/m
442	09/18/2015 11:16:03 AM	0.6878 V/m	0.6624 V/m	0.6424 V/m
443	09/18/2015 11:16:13 AM	0.6922 V/m	0.6768 V/m	0.6622 V/m
444	09/18/2015 11:16:23 AM	0.7282 V/m	0.6697 V/m	0.6394 V/m
445	09/18/2015 11:16:33 AM	0.7218 V/m	0.6897 V/m	0.6521 V/m
446	09/18/2015 11:16:43 AM	0.7252 V/m	0.6963 V/m	0.6733 V/m
447	09/18/2015 11:16:53 AM	0.7263 V/m	0.6919 V/m	0.6667 V/m
448	09/18/2015 11:17:03 AM	0.7203 V/m	0.6868 V/m	0.6449 V/m
449	09/18/2015 11:17:13 AM	0.7542 V/m	0.6897 V/m	0.6521 V/m
450	09/18/2015 11:17:23 AM	0.7384 V/m	0.6863 V/m	0.6517 V/m
451	09/18/2015 11:17:33 AM	0.7187 V/m	0.6651 V/m	0.6376 V/m
452	09/18/2015 11:17:43 AM	0.7191 V/m	0.6704 V/m	0.6389 V/m
453	09/18/2015 11:17:53 AM	0.7972 V/m	0.6896 V/m	0.6475 V/m
454	09/18/2015 11:18:03 AM	0.7524 V/m	0.6978 V/m	0.6320 V/m
455	09/18/2015 11:18:13 AM	0.7765 V/m	0.6949 V/m	0.6563 V/m
456	09/18/2015 11:18:23 AM	0.7199 V/m	0.6693 V/m	0.6363 V/m
457	09/18/2015 11:18:33 AM	0.7491 V/m	0.6900 V/m	0.6398 V/m
458	09/18/2015 11:18:43 AM	0.7252 V/m	0.6641 V/m	0.6394 V/m
459	09/18/2015 11:18:53 AM	0.7748 V/m	0.7189 V/m	0.6601 V/m
460	09/18/2015 11:19:03 AM	0.7040 V/m	0.6709 V/m	0.6381 V/m
461	09/18/2015 11:19:13 AM	0.7056 V/m	0.6649 V/m	0.6419 V/m
462	09/18/2015 11:19:23 AM	0.7091 V/m	0.6704 V/m	0.6458 V/m
463	09/18/2015 11:19:33 AM	0.7575 V/m	0.6965 V/m	0.6675 V/m
464	09/18/2015 11:19:43 AM	0.7906 V/m	0.7019 V/m	0.6584 V/m
465	09/18/2015 11:19:53 AM	0.7149 V/m	0.6930 V/m	0.6651 V/m
466	09/18/2015 11:20:03 AM	0.7443 V/m	0.6930 V/m	0.6684 V/m
467	09/18/2015 11:20:13 AM	0.8435 V/m	0.7112 V/m	0.6580 V/m
468	09/18/2015 11:20:23 AM	0.8040 V/m	0.6919 V/m	0.6411 V/m
469	09/18/2015 11:20:33 AM	0.8267 V/m	0.6825 V/m	0.6547 V/m
470	09/18/2015 11:20:43 AM	0.7520 V/m	0.6970 V/m	0.6588 V/m
471	09/18/2015 11:20:53 AM	0.7528 V/m	0.7108 V/m	0.6806 V/m
472	09/18/2015 11:21:03 AM	0.8206 V/m	0.7363 V/m	0.6858 V/m
473	09/18/2015 11:21:13 AM	0.9025 V/m	0.7831 V/m	0.6580 V/m
474	09/18/2015 11:21:23 AM	0.7436 V/m	0.6943 V/m	0.6576 V/m
475	09/18/2015 11:21:33 AM	0.7712 V/m	0.7102 V/m	0.6597 V/m
476	09/18/2015 11:21:43 AM	0.8186 V/m	0.7237 V/m	0.6521 V/m
477	09/18/2015 11:21:53 AM	0.7619 V/m	0.7140 V/m	0.6733 V/m
478	09/18/2015 11:22:03 AM	0.8105 V/m	0.7309 V/m	0.6700 V/m
479	09/18/2015 11:22:13 AM	0.7629 V/m	0.7164 V/m	0.6700 V/m
480	09/18/2015 11:22:23 AM	0.7354 V/m	0.6942 V/m	0.6692 V/m
481	09/18/2015 11:22:33 AM	0.8379 V/m	0.7377 V/m	0.6700 V/m
482	09/18/2015 11:22:43 AM	0.7568 V/m	0.7054 V/m	0.6761 V/m
483	09/18/2015 11:22:53 AM	0.8532 V/m	0.7296 V/m	0.6638 V/m
484	09/18/2015 11:23:03 AM	0.7531 V/m	0.6870 V/m	0.6393 V/m
485	09/18/2015 11:23:13 AM	0.7737 V/m	0.7073 V/m	0.6745 V/m
486	09/18/2015 11:23:23 AM	0.7298 V/m	0.6964 V/m	0.6496 V/m
487	09/18/2015 11:23:33 AM	0.7476 V/m	0.7151 V/m	0.6862 V/m
488	09/18/2015 11:23:43 AM	0.7748 V/m	0.7094 V/m	0.6733 V/m
489	09/18/2015 11:23:53 AM	0.7622 V/m	0.7153 V/m	0.6725 V/m
490	09/18/2015 11:24:03 AM	0.7658 V/m	0.7086 V/m	0.6593 V/m
491	09/18/2015 11:24:13 AM	0.7923 V/m	0.7264 V/m	0.6906 V/m
492	09/18/2015 11:24:23 AM	0.7282 V/m	0.7052 V/m	0.6704 V/m
493	09/18/2015 11:24:33 AM	0.7564 V/m	0.7238 V/m	0.6906 V/m
494	09/18/2015 11:24:43 AM	0.7122 V/m	0.6784 V/m	0.6525 V/m
495	09/18/2015 11:24:53 AM	0.7473 V/m	0.6839 V/m	0.6567 V/m
496	09/18/2015 11:25:03 AM	0.7214 V/m	0.6857 V/m	0.6555 V/m
497	09/18/2015 11:25:13 AM	0.7267 V/m	0.6837 V/m	0.6492 V/m
498	09/18/2015 11:25:23 AM	0.7895 V/m	0.6955 V/m	0.6538 V/m

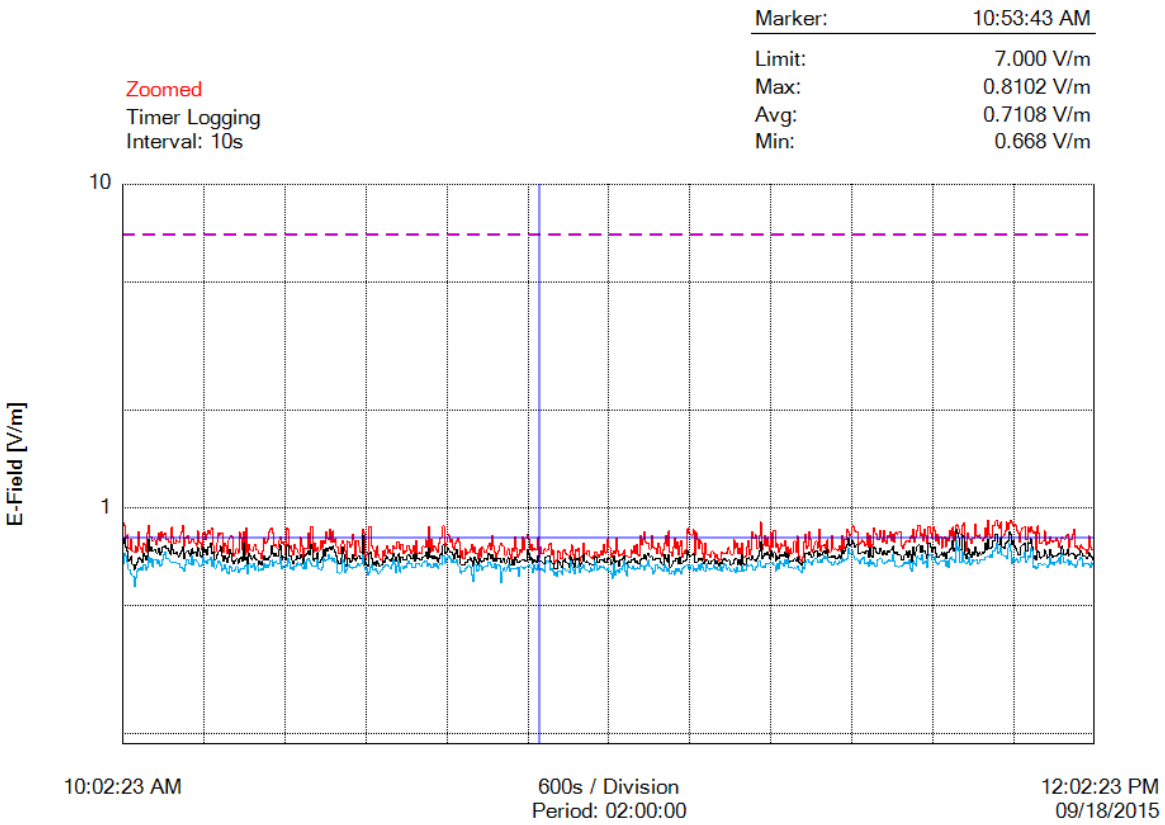
499	09/18/2015 11:25:33 AM	0.7286 V/m	0.6837 V/m	0.6509 V/m
500	09/18/2015 11:25:43 AM	0.8193 V/m	0.7034 V/m	0.6630 V/m
501	09/18/2015 11:25:53 AM	0.7095 V/m	0.6817 V/m	0.6432 V/m
502	09/18/2015 11:26:03 AM	0.6906 V/m	0.6734 V/m	0.6411 V/m
503	09/18/2015 11:26:13 AM	0.6846 V/m	0.6642 V/m	0.6303 V/m
504	09/18/2015 11:26:23 AM	0.7009 V/m	0.6785 V/m	0.6580 V/m
505	09/18/2015 11:26:33 AM	0.7836 V/m	0.6816 V/m	0.6479 V/m
506	09/18/2015 11:26:43 AM	0.8250 V/m	0.7229 V/m	0.6802 V/m
507	09/18/2015 11:26:53 AM	0.7465 V/m	0.7200 V/m	0.6882 V/m
508	09/18/2015 11:27:03 AM	0.7622 V/m	0.7193 V/m	0.6886 V/m
509	09/18/2015 11:27:13 AM	0.8435 V/m	0.7324 V/m	0.6794 V/m
510	09/18/2015 11:27:23 AM	0.7975 V/m	0.7162 V/m	0.6786 V/m
511	09/18/2015 11:27:33 AM	0.7324 V/m	0.7039 V/m	0.6667 V/m
512	09/18/2015 11:27:43 AM	0.7462 V/m	0.7093 V/m	0.6862 V/m
513	09/18/2015 11:27:53 AM	0.7680 V/m	0.7318 V/m	0.6954 V/m
514	09/18/2015 11:28:03 AM	0.7902 V/m	0.7380 V/m	0.6954 V/m
515	09/18/2015 11:28:13 AM	0.7506 V/m	0.7061 V/m	0.6790 V/m
516	09/18/2015 11:28:23 AM	0.8584 V/m	0.7241 V/m	0.6786 V/m
517	09/18/2015 11:28:33 AM	0.7361 V/m	0.7124 V/m	0.6926 V/m
518	09/18/2015 11:28:43 AM	0.7654 V/m	0.7162 V/m	0.6778 V/m
519	09/18/2015 11:28:53 AM	0.7662 V/m	0.7284 V/m	0.6966 V/m
520	09/18/2015 11:29:03 AM	0.7705 V/m	0.7354 V/m	0.7091 V/m
521	09/18/2015 11:29:13 AM	0.7528 V/m	0.7243 V/m	0.6985 V/m
522	09/18/2015 11:29:23 AM	0.7954 V/m	0.7459 V/m	0.7072 V/m
523	09/18/2015 11:29:33 AM	0.7399 V/m	0.7044 V/m	0.6818 V/m
524	09/18/2015 11:29:43 AM	0.7301 V/m	0.7006 V/m	0.6782 V/m
525	09/18/2015 11:29:53 AM	0.7331 V/m	0.7009 V/m	0.6810 V/m
526	09/18/2015 11:30:03 AM	0.8207 V/m	0.7105 V/m	0.6663 V/m
527	09/18/2015 11:30:13 AM	0.7458 V/m	0.7017 V/m	0.6671 V/m
528	09/18/2015 11:30:23 AM	0.7495 V/m	0.7113 V/m	0.6826 V/m
529	09/18/2015 11:30:33 AM	0.7447 V/m	0.6955 V/m	0.6737 V/m
530	09/18/2015 11:30:43 AM	0.7376 V/m	0.7017 V/m	0.6692 V/m
531	09/18/2015 11:30:53 AM	0.7644 V/m	0.7141 V/m	0.6830 V/m
532	09/18/2015 11:31:03 AM	0.7343 V/m	0.6993 V/m	0.6774 V/m
533	09/18/2015 11:31:13 AM	0.8230 V/m	0.7432 V/m	0.6962 V/m
534	09/18/2015 11:31:23 AM	0.7484 V/m	0.7204 V/m	0.6834 V/m
535	09/18/2015 11:31:33 AM	0.7958 V/m	0.7342 V/m	0.6934 V/m
536	09/18/2015 11:31:43 AM	0.8016 V/m	0.7531 V/m	0.6934 V/m
537	09/18/2015 11:31:53 AM	0.8603 V/m	0.7681 V/m	0.6986 V/m
538	09/18/2015 11:32:03 AM	0.8408 V/m	0.8089 V/m	0.7491 V/m
539	09/18/2015 11:32:13 AM	0.8193 V/m	0.7651 V/m	0.7248 V/m
540	09/18/2015 11:32:23 AM	0.8280 V/m	0.7744 V/m	0.7237 V/m
541	09/18/2015 11:32:33 AM	0.8790 V/m	0.7944 V/m	0.7358 V/m
542	09/18/2015 11:32:43 AM	0.8715 V/m	0.7747 V/m	0.7126 V/m
543	09/18/2015 11:32:53 AM	0.8484 V/m	0.7559 V/m	0.6938 V/m
544	09/18/2015 11:33:03 AM	0.8431 V/m	0.7671 V/m	0.6950 V/m
545	09/18/2015 11:33:13 AM	0.7647 V/m	0.7237 V/m	0.6846 V/m
546	09/18/2015 11:33:23 AM	0.7744 V/m	0.7227 V/m	0.6708 V/m
547	09/18/2015 11:33:33 AM	0.7843 V/m	0.7249 V/m	0.6906 V/m
548	09/18/2015 11:33:43 AM	0.7951 V/m	0.7322 V/m	0.6966 V/m
549	09/18/2015 11:33:53 AM	0.7843 V/m	0.7309 V/m	0.7033 V/m
550	09/18/2015 11:34:03 AM	0.7604 V/m	0.7214 V/m	0.6737 V/m
551	09/18/2015 11:34:13 AM	0.7708 V/m	0.7330 V/m	0.6745 V/m
552	09/18/2015 11:34:23 AM	0.8336 V/m	0.7357 V/m	0.6790 V/m
553	09/18/2015 11:34:33 AM	0.7553 V/m	0.7037 V/m	0.6618 V/m
554	09/18/2015 11:34:43 AM	0.8190 V/m	0.7543 V/m	0.6938 V/m
555	09/18/2015 11:34:53 AM	0.7579 V/m	0.7102 V/m	0.6688 V/m
556	09/18/2015 11:35:03 AM	0.7712 V/m	0.7043 V/m	0.6786 V/m
557	09/18/2015 11:35:13 AM	0.8686 V/m	0.7581 V/m	0.6729 V/m
558	09/18/2015 11:35:23 AM	0.8373 V/m	0.7465 V/m	0.6584 V/m
559	09/18/2015 11:35:33 AM	0.8270 V/m	0.7275 V/m	0.6622 V/m
560	09/18/2015 11:35:43 AM	0.7972 V/m	0.7198 V/m	0.6942 V/m
561	09/18/2015 11:35:53 AM	0.8526 V/m	0.7509 V/m	0.6958 V/m

562	09/18/2015 11:36:03 AM	0.8105 V/m	0.7339 V/m	0.6950 V/m
563	09/18/2015 11:36:13 AM	0.7832 V/m	0.7165 V/m	0.6770 V/m
564	09/18/2015 11:36:23 AM	0.8526 V/m	0.7346 V/m	0.6733 V/m
565	09/18/2015 11:36:33 AM	0.7934 V/m	0.7227 V/m	0.6802 V/m
566	09/18/2015 11:36:43 AM	0.7786 V/m	0.7171 V/m	0.6794 V/m
567	09/18/2015 11:36:53 AM	0.8213 V/m	0.7373 V/m	0.6874 V/m
568	09/18/2015 11:37:03 AM	0.8119 V/m	0.7295 V/m	0.6910 V/m
569	09/18/2015 11:37:13 AM	0.8425 V/m	0.7399 V/m	0.6842 V/m
570	09/18/2015 11:37:23 AM	0.7909 V/m	0.7435 V/m	0.6846 V/m
571	09/18/2015 11:37:33 AM	0.8310 V/m	0.7603 V/m	0.7210 V/m
572	09/18/2015 11:37:43 AM	0.7839 V/m	0.7278 V/m	0.6858 V/m
573	09/18/2015 11:37:53 AM	0.8396 V/m	0.7210 V/m	0.6609 V/m
574	09/18/2015 11:38:03 AM	0.8313 V/m	0.7314 V/m	0.6597 V/m
575	09/18/2015 11:38:13 AM	0.8429 V/m	0.7135 V/m	0.6576 V/m
576	09/18/2015 11:38:23 AM	0.8461 V/m	0.7135 V/m	0.6601 V/m
577	09/18/2015 11:38:33 AM	0.7644 V/m	0.6917 V/m	0.6588 V/m
578	09/18/2015 11:38:43 AM	0.7491 V/m	0.6893 V/m	0.6642 V/m
579	09/18/2015 11:38:53 AM	0.7676 V/m	0.7125 V/m	0.6802 V/m
580	09/18/2015 11:39:03 AM	0.7843 V/m	0.7179 V/m	0.6741 V/m
581	09/18/2015 11:39:13 AM	0.7906 V/m	0.7331 V/m	0.6806 V/m
582	09/18/2015 11:39:23 AM	0.7906 V/m	0.7038 V/m	0.6700 V/m
583	09/18/2015 11:39:33 AM	0.7818 V/m	0.7353 V/m	0.6882 V/m
584	09/18/2015 11:39:43 AM	0.8176 V/m	0.7165 V/m	0.6504 V/m
585	09/18/2015 11:39:53 AM	0.8047 V/m	0.6801 V/m	0.6346 V/m
586	09/18/2015 11:40:03 AM	0.8613 V/m	0.7578 V/m	0.6818 V/m
587	09/18/2015 11:40:13 AM	0.7822 V/m	0.7130 V/m	0.6717 V/m
588	09/18/2015 11:40:23 AM	0.8153 V/m	0.7333 V/m	0.6622 V/m
589	09/18/2015 11:40:33 AM	0.8542 V/m	0.7618 V/m	0.7072 V/m
590	09/18/2015 11:40:43 AM	0.8824 V/m	0.7700 V/m	0.6982 V/m
591	09/18/2015 11:40:53 AM	0.8183 V/m	0.7274 V/m	0.6882 V/m
592	09/18/2015 11:41:03 AM	0.8336 V/m	0.7634 V/m	0.7172 V/m
593	09/18/2015 11:41:13 AM	0.7881 V/m	0.7323 V/m	0.6737 V/m
594	09/18/2015 11:41:23 AM	0.8581 V/m	0.7384 V/m	0.6802 V/m
595	09/18/2015 11:41:33 AM	0.8190 V/m	0.7203 V/m	0.6874 V/m
596	09/18/2015 11:41:43 AM	0.7804 V/m	0.6972 V/m	0.6555 V/m
597	09/18/2015 11:41:53 AM	0.8730 V/m	0.7758 V/m	0.7091 V/m
598	09/18/2015 11:42:03 AM	0.8752 V/m	0.7744 V/m	0.7161 V/m
599	09/18/2015 11:42:13 AM	0.8370 V/m	0.7561 V/m	0.7149 V/m
600	09/18/2015 11:42:23 AM	0.8023 V/m	0.7298 V/m	0.6922 V/m
601	09/18/2015 11:42:33 AM	0.8727 V/m	0.7515 V/m	0.6902 V/m
602	09/18/2015 11:42:43 AM	0.8484 V/m	0.7553 V/m	0.7083 V/m
603	09/18/2015 11:42:53 AM	0.7902 V/m	0.7202 V/m	0.6782 V/m
604	09/18/2015 11:43:03 AM	0.8310 V/m	0.7025 V/m	0.6680 V/m
605	09/18/2015 11:43:13 AM	0.7726 V/m	0.7008 V/m	0.6737 V/m
606	09/18/2015 11:43:23 AM	0.8136 V/m	0.7140 V/m	0.6838 V/m
607	09/18/2015 11:43:33 AM	0.7509 V/m	0.7274 V/m	0.6838 V/m
608	09/18/2015 11:43:43 AM	0.8047 V/m	0.7106 V/m	0.6826 V/m
609	09/18/2015 11:43:53 AM	0.8115 V/m	0.7272 V/m	0.6882 V/m
610	09/18/2015 11:44:03 AM	0.7597 V/m	0.6972 V/m	0.6613 V/m
611	09/18/2015 11:44:13 AM	0.8061 V/m	0.7324 V/m	0.6830 V/m
612	09/18/2015 11:44:23 AM	0.7937 V/m	0.7281 V/m	0.6530 V/m
613	09/18/2015 11:44:33 AM	0.8484 V/m	0.7459 V/m	0.7001 V/m
614	09/18/2015 11:44:43 AM	0.8210 V/m	0.7476 V/m	0.7033 V/m
615	09/18/2015 11:44:53 AM	0.8715 V/m	0.7952 V/m	0.6922 V/m
616	09/18/2015 11:45:03 AM	0.7930 V/m	0.7336 V/m	0.6886 V/m
617	09/18/2015 11:45:13 AM	0.8461 V/m	0.7544 V/m	0.6774 V/m
618	09/18/2015 11:45:23 AM	0.8865 V/m	0.8552 V/m	0.7923 V/m
619	09/18/2015 11:45:33 AM	0.8800 V/m	0.8321 V/m	0.7388 V/m
620	09/18/2015 11:45:43 AM	0.8597 V/m	0.8088 V/m	0.7593 V/m
621	09/18/2015 11:45:53 AM	0.8300 V/m	0.7424 V/m	0.6757 V/m
622	09/18/2015 11:46:03 AM	0.8806 V/m	0.8245 V/m	0.7343 V/m
623	09/18/2015 11:46:13 AM	0.8970 V/m	0.8143 V/m	0.6846 V/m
624	09/18/2015 11:46:23 AM	0.7832 V/m	0.7158 V/m	0.6761 V/m

625	09/18/2015 11:46:33 AM	0.7331 V/m	0.6956 V/m	0.6725 V/m
626	09/18/2015 11:46:43 AM	0.8340 V/m	0.7207 V/m	0.6770 V/m
627	09/18/2015 11:46:53 AM	0.8023 V/m	0.7469 V/m	0.7021 V/m
628	09/18/2015 11:47:03 AM	0.7985 V/m	0.7181 V/m	0.6696 V/m
629	09/18/2015 11:47:13 AM	0.7797 V/m	0.7045 V/m	0.6733 V/m
630	09/18/2015 11:47:23 AM	0.8082 V/m	0.7305 V/m	0.6898 V/m
631	09/18/2015 11:47:33 AM	0.8054 V/m	0.7172 V/m	0.6862 V/m
632	09/18/2015 11:47:43 AM	0.8918 V/m	0.7586 V/m	0.6886 V/m
633	09/18/2015 11:47:53 AM	0.8186 V/m	0.7293 V/m	0.6890 V/m
634	09/18/2015 11:48:03 AM	0.8112 V/m	0.7089 V/m	0.6733 V/m
635	09/18/2015 11:48:13 AM	0.8250 V/m	0.7278 V/m	0.6786 V/m
636	09/18/2015 11:48:23 AM	0.8047 V/m	0.7173 V/m	0.6934 V/m
637	09/18/2015 11:48:33 AM	0.7892 V/m	0.7326 V/m	0.6938 V/m
638	09/18/2015 11:48:43 AM	0.8034 V/m	0.7250 V/m	0.6918 V/m
639	09/18/2015 11:48:53 AM	0.8648 V/m	0.7793 V/m	0.7013 V/m
640	09/18/2015 11:49:03 AM	0.8153 V/m	0.7428 V/m	0.7064 V/m
641	09/18/2015 11:49:13 AM	0.9176 V/m	0.7966 V/m	0.7079 V/m
642	09/18/2015 11:49:23 AM	0.8264 V/m	0.7513 V/m	0.7064 V/m
643	09/18/2015 11:49:33 AM	0.8068 V/m	0.7496 V/m	0.7184 V/m
644	09/18/2015 11:49:43 AM	0.8146 V/m	0.7533 V/m	0.7036 V/m
645	09/18/2015 11:49:53 AM	0.8799 V/m	0.7909 V/m	0.7365 V/m
646	09/18/2015 11:50:03 AM	0.8821 V/m	0.7881 V/m	0.7387 V/m
647	09/18/2015 11:50:13 AM	0.9122 V/m	0.8263 V/m	0.7495 V/m
648	09/18/2015 11:50:23 AM	0.9113 V/m	0.8289 V/m	0.7765 V/m
649	09/18/2015 11:50:33 AM	0.8802 V/m	0.7684 V/m	0.7222 V/m
650	09/18/2015 11:50:43 AM	0.8641 V/m	0.7704 V/m	0.7324 V/m
651	09/18/2015 11:50:53 AM	0.9058 V/m	0.8121 V/m	0.7593 V/m
652	09/18/2015 11:51:03 AM	0.8156 V/m	0.7588 V/m	0.7164 V/m
653	09/18/2015 11:51:13 AM	0.8283 V/m	0.7466 V/m	0.7083 V/m
654	09/18/2015 11:51:23 AM	0.8484 V/m	0.7754 V/m	0.7091 V/m
655	09/18/2015 11:51:33 AM	0.9031 V/m	0.7838 V/m	0.6946 V/m
656	09/18/2015 11:51:43 AM	0.8562 V/m	0.7891 V/m	0.7524 V/m
657	09/18/2015 11:51:53 AM	0.8964 V/m	0.8427 V/m	0.7744 V/m
658	09/18/2015 11:52:03 AM	0.9131 V/m	0.8273 V/m	0.7388 V/m
659	09/18/2015 11:52:13 AM	0.8967 V/m	0.7736 V/m	0.6749 V/m
660	09/18/2015 11:52:23 AM	0.8796 V/m	0.7919 V/m	0.6962 V/m
661	09/18/2015 11:52:33 AM	0.8896 V/m	0.7655 V/m	0.6862 V/m
662	09/18/2015 11:52:43 AM	0.8812 V/m	0.7491 V/m	0.6954 V/m
663	09/18/2015 11:52:53 AM	0.8474 V/m	0.7318 V/m	0.6918 V/m
664	09/18/2015 11:53:03 AM	0.8323 V/m	0.7161 V/m	0.6770 V/m
665	09/18/2015 11:53:13 AM	0.7846 V/m	0.7168 V/m	0.6834 V/m
666	09/18/2015 11:53:23 AM	0.8474 V/m	0.7618 V/m	0.7056 V/m
667	09/18/2015 11:53:33 AM	0.8676 V/m	0.7684 V/m	0.7017 V/m
668	09/18/2015 11:53:43 AM	0.8752 V/m	0.7789 V/m	0.7328 V/m
669	09/18/2015 11:53:53 AM	0.8006 V/m	0.7324 V/m	0.6782 V/m
670	09/18/2015 11:54:03 AM	0.7958 V/m	0.7356 V/m	0.6874 V/m
671	09/18/2015 11:54:13 AM	0.8715 V/m	0.7816 V/m	0.7130 V/m
672	09/18/2015 11:54:23 AM	0.8402 V/m	0.7780 V/m	0.7021 V/m
673	09/18/2015 11:54:33 AM	0.8762 V/m	0.8023 V/m	0.7480 V/m
674	09/18/2015 11:54:43 AM	0.8474 V/m	0.7572 V/m	0.7365 V/m
675	09/18/2015 11:54:53 AM	0.8323 V/m	0.6992 V/m	0.6563 V/m
676	09/18/2015 11:55:03 AM	0.8445 V/m	0.7108 V/m	0.6601 V/m
677	09/18/2015 11:55:13 AM	0.7402 V/m	0.6903 V/m	0.6492 V/m
678	09/18/2015 11:55:23 AM	0.8799 V/m	0.7368 V/m	0.6563 V/m
679	09/18/2015 11:55:33 AM	0.8320 V/m	0.7280 V/m	0.6725 V/m
680	09/18/2015 11:55:43 AM	0.7772 V/m	0.6992 V/m	0.6729 V/m
681	09/18/2015 11:55:53 AM	0.7801 V/m	0.7054 V/m	0.6684 V/m
682	09/18/2015 11:56:03 AM	0.7888 V/m	0.7090 V/m	0.6692 V/m
683	09/18/2015 11:56:13 AM	0.8477 V/m	0.7401 V/m	0.6716 V/m
684	09/18/2015 11:56:23 AM	0.7694 V/m	0.7202 V/m	0.6642 V/m
685	09/18/2015 11:56:33 AM	0.7860 V/m	0.7004 V/m	0.6555 V/m
686	09/18/2015 11:56:43 AM	0.7769 V/m	0.7034 V/m	0.6642 V/m
687	09/18/2015 11:56:53 AM	0.8109 V/m	0.7411 V/m	0.7017 V/m

688	09/18/2015 11:57:03 AM	0.7923 V/m	0.7174 V/m	0.6729 V/m
689	09/18/2015 11:57:13 AM	0.7815 V/m	0.7064 V/m	0.6770 V/m
690	09/18/2015 11:57:23 AM	0.7888 V/m	0.7112 V/m	0.6675 V/m
691	09/18/2015 11:57:33 AM	0.7885 V/m	0.7074 V/m	0.6802 V/m
692	09/18/2015 11:57:43 AM	0.8047 V/m	0.7111 V/m	0.6761 V/m
693	09/18/2015 11:57:53 AM	0.7892 V/m	0.7150 V/m	0.6858 V/m
694	09/18/2015 11:58:03 AM	0.7550 V/m	0.7242 V/m	0.7009 V/m
695	09/18/2015 11:58:13 AM	0.7815 V/m	0.7185 V/m	0.6737 V/m
696	09/18/2015 11:58:23 AM	0.8115 V/m	0.7600 V/m	0.7206 V/m
697	09/18/2015 11:58:33 AM	0.8023 V/m	0.7449 V/m	0.7064 V/m
698	09/18/2015 11:58:43 AM	0.7996 V/m	0.7146 V/m	0.6790 V/m
699	09/18/2015 11:58:53 AM	0.8196 V/m	0.7199 V/m	0.6810 V/m
700	09/18/2015 11:59:03 AM	0.8310 V/m	0.7431 V/m	0.6914 V/m
701	09/18/2015 11:59:13 AM	0.7524 V/m	0.7127 V/m	0.6675 V/m
702	09/18/2015 11:59:23 AM	0.7965 V/m	0.7197 V/m	0.6834 V/m
703	09/18/2015 11:59:33 AM	0.7992 V/m	0.7199 V/m	0.6737 V/m
704	09/18/2015 11:59:43 AM	0.8260 V/m	0.7242 V/m	0.6659 V/m
705	09/18/2015 11:59:53 AM	0.8616 V/m	0.7192 V/m	0.6655 V/m
706	09/18/2015 12:00:03 PM	0.7589 V/m	0.6959 V/m	0.6563 V/m
707	09/18/2015 12:00:13 PM	0.7665 V/m	0.7113 V/m	0.6659 V/m
708	09/18/2015 12:00:23 PM	0.7476 V/m	0.7162 V/m	0.6882 V/m
709	09/18/2015 12:00:33 PM	0.7436 V/m	0.7177 V/m	0.6934 V/m
710	09/18/2015 12:00:43 PM	0.7690 V/m	0.7379 V/m	0.7040 V/m
711	09/18/2015 12:00:53 PM	0.7542 V/m	0.7258 V/m	0.6962 V/m
712	09/18/2015 12:01:03 PM	0.7473 V/m	0.7070 V/m	0.6605 V/m
713	09/18/2015 12:01:13 PM	0.7436 V/m	0.7084 V/m	0.6741 V/m
714	09/18/2015 12:01:23 PM	0.7229 V/m	0.6945 V/m	0.6716 V/m
715	09/18/2015 12:01:33 PM	0.7439 V/m	0.7052 V/m	0.6721 V/m
716	09/18/2015 12:01:43 PM	0.8173 V/m	0.7277 V/m	0.6692 V/m
717	09/18/2015 12:01:53 PM	0.7553 V/m	0.7102 V/m	0.6530 V/m
718	09/18/2015 12:02:03 PM	0.7432 V/m	0.7036 V/m	0.6765 V/m
719	09/18/2015 12:02:13 PM	0.7413 V/m	0.6935 V/m	0.6651 V/m
720	09/18/2015 12:02:23 PM	0.7149 V/m	0.6805 V/m	0.6428 V/m

Graph


Marker: 10:53:43 AM
Limit: 7.000 V/m
Max: 0.8102 V/m
Avg: 0.7108 V/m
Min: 0.668 V/m
Zoomed
Timer Logging
Interval: 10s
10
1
E-Field [V/m]
10:02:23 AM
600s / Division
Period: 02:00:00
12:02:23 PM
09/18/2015

Parameters

Number of Sub Indices	720
Storing Date	09/18/2015
Storing Time	10:02:23 AM
Dataset Type	TIM
Voice Comment Available	NO
Dataset Fine Type	T1
GPS Flag	DIFF
Device Product Name	NBM-550
Device Serial Number	B-0507
Device Cal Due Date	06/10/2017
Probe Product Name	EF0391
Probe Serial Number	A-0636
Probe Cal Due Date	06/15/2017
Probe Field Type	E
Probe Connection Type	A
Probe Lower Frequency Limit A	100 kHz
Probe Upper Frequency Limit A	3 GHz
Probe Lower Frequency Limit B	100 kHz
Probe Upper Frequency Limit B	3 GHz
Probe Emin A	185.0 mV/m
Probe Emax A	300.0 V/m
Probe Emin B	185.0 mV/m
Probe Emax B	300.0 V/m
Shaped Probe	NO
Standard ID	1
Standard Name	FCC 1997 Occupational
Apply Standard	OFF
Frequency	100 kHz
Apply Correction Frequency	OFF
Eref_E(f)	614.0 V/m
Eref_H(f)	614.5 V/m
Combi Probe Use	E_H
Unit	V/m
Results Format	FIXED
Auto-Zero Interval	OFF
Result Type	-
Averaging Time	-
Average Progress	-
Spatial AVG Mode	-
Store Condition	-
Storing Range	-
Cond. Stop Time	-
Upper Threshold	-
Lower Threshold	-
Timer Interval	10 sec
Timer Duration	02:00:00
History Time Scale	-
Time progress of current segment	-

FOTOGRAFIE REJONU BADAŃ:

Fot.1. Rejon badań, widok w kierunku południowo-zachodnim

Fot.2. Rejon badań, widok w kierunku południowo-wschodnim

Fot.3. Rejon badań, widok w kierunku północno-wschodnim

Fot.4. Przyrząd pomiarowy w trakcie wykonywanego badania

ZAWIERCIE

Oznaczenia:

- P-1 – punkt pomiarowy poziomów pól elektromagnetycznych w środowisku

Ryc. Szkic sytuacyjny rejonu badań.

Analiza widma promieniowania elektromagnetycznego w środowisku

Wyniki pomiarów i analiz widma pól elektromagnetycznych w zakresie częstotliwości od 27 MHz do 3 GHz, *składowej elektrycznej* E, V/m, w punkcie pomiarowym P-1 Zawiercie:

1. **E, V/m,** wartość maksymalna określona w paśmie częstotliwości **27 MHz - 3 GHz**

   E = 205,5 mV/m, **(*N*)**[*)]

   na poziomie częstotliwości f: 957,807 MHz
   (**Ryc. 1**: *Marker A*);

2. **E, V/m,** scałkowana wartość szerokopasmowa (wraz z szumami), w paśmie częstotliwości **27 MHz - 3 GHz**

   E = 809,7 mV/m; (*N*)[*)]

3. **E, V/m,** wartość maksymalna określona w paśmie częstotliwości **27 MHz - 108 MHz**,

   E = 6,847 mV/m; (*N*)[*)]

4. **E, V/m,** scałkowana wartość szerokopasmowa (wraz z szumami), w paśmie częstotliwości **27 MHz - 108 MHz**,

   E = 50,82 mV/m; (*N*)[*)]

5. **E, V/m,** wartość maksymalna określona w paśmie częstotliwości **108 MHz - 450 MHz**,

   E = 4,587 mV/m; (*N*)[*)]

6. **E, V/m,** scałkowana wartość szerokopasmowa (wraz z szumami), w paśmie częstotliwości **108 MHz - 450 MHz**,

   E = 43,24 mV/m; (*N*)[*)]

7. **E, V/m,** wartość maksymalna określona w paśmie częstotliwości **450 MHz - 850 MHz**,

   E = 1,847 mV/m; (*N*)[*)]

8. **E, V/m,** scałkowana wartość szerokopasmowa (wraz z szumami), w paśmie częstotliwości **450 MHz - 850 MHz**,

   E = 26,84 mV/m; (*N*)[*)]

9. **E, V/m,** wartość maksymalna określona w paśmie częstotliwości **850 MHz - 3 GHz**,

   E = 220,4 mV/m; (*N*)[*)]

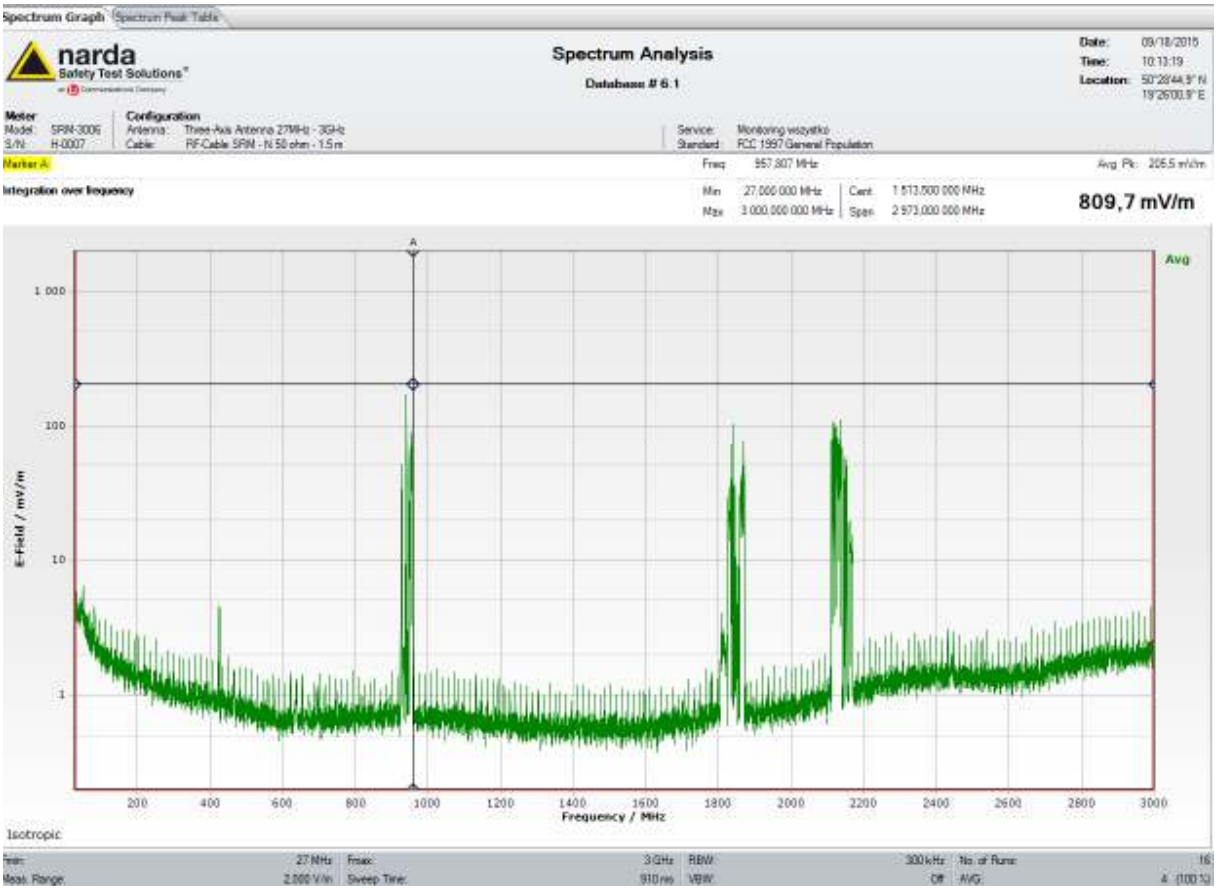
   na poziomie częstotliwości f: 957,781 MHz

10. **E, V/m,** scałkowana wartość szerokopasmowa (wraz z szumami), w paśmie częstotliwości **850 MHz – 3 GHz**,

    E = 761,8 mV/m; (*N*)[*)]

Objaśnienia:

[*)] Oznaczenie symboliczne, ***N*** - status wyniku badania: wynik badania spoza zakresu akredytacji.



Ryc. 1. SRM - 3006, Narda STS GmbH, Germany, Analiza widma promieniowania elektromagnetycznego w środowisku, punkt pomiarowy **P-1 Zawiercie**.

INTERPRETACJE I WNIOSKI

W rejonie przedmiotowych pomiarów w badanym zakresie częstotliwości od 27 MHz do 3 GHz dominujacymi źródłami PEM wysokiej częstotliwości, są satcje bazowe telefonii komorkowych, pracujace w paśmie 900 MHz oraz w nieco mniejszym stopniu 1800 MHz i 2100 MHz. Maksymalne poziomy w pasmie telefonii ruchomej osiągają 2% wartosci dopuszczalnej (7 V/m) dla tego zakresu częstoliwości. W pozostałych pasmach brak stałych, silnych źródeł PEM.