





Annex 1  
to TEST REPORT  
No.: 2-20732871a/08  
-  
Measurement diagrams

According to: FCC Regulations  
Part 22 & Part 24

for  
Option N.V.

GSM/UMTS/GPS Module CU1407

Laboratory Accreditation and Listings			
 Deutscher Akkreditierungs Rat DAT-P176/94-02	 FEDERAL COMMUNICATIONS COMMISSION FC USA Reg. No.: 99538 MRA US-EU 0003	 Industry Canada Reg. No.: IC 3465	 Reg. No.: R-2665, R-2666 C-2914, T-339
accredited according to DIN EN ISO/IEC 17025			
<p><b>CETECOM GmbH</b> Laboratory Radio Communications &amp; Electromagnetic Compatibility Im Teelbruch 116 • 45219 Essen • Germany Registered in Essen, Germany, Reg. No.: HRB Essen 8984 Tel.: + 49 (0) 20 54 / 95 19-954 • Fax: + 49 (0) 20 54 / 95 19-964 E-mail: info@cetecom.de • Internet: www.cetecom.com</p>			

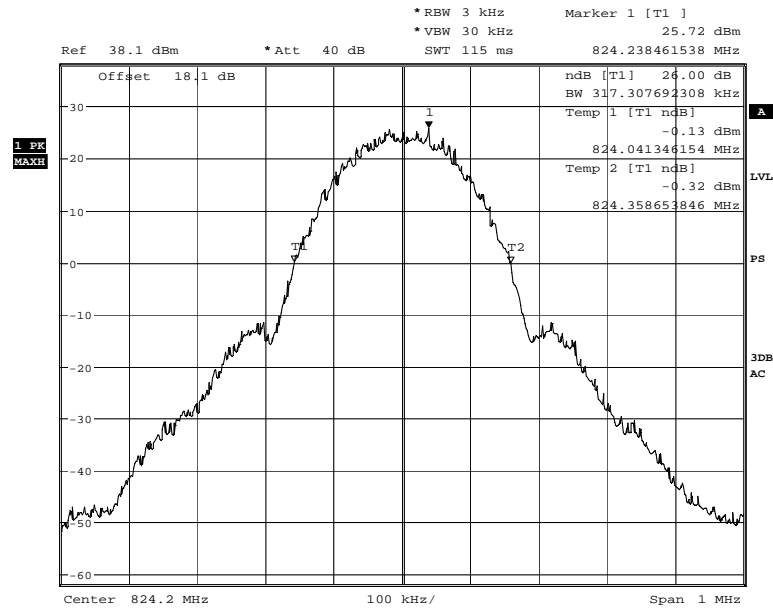
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# 1. Measurement diagrams

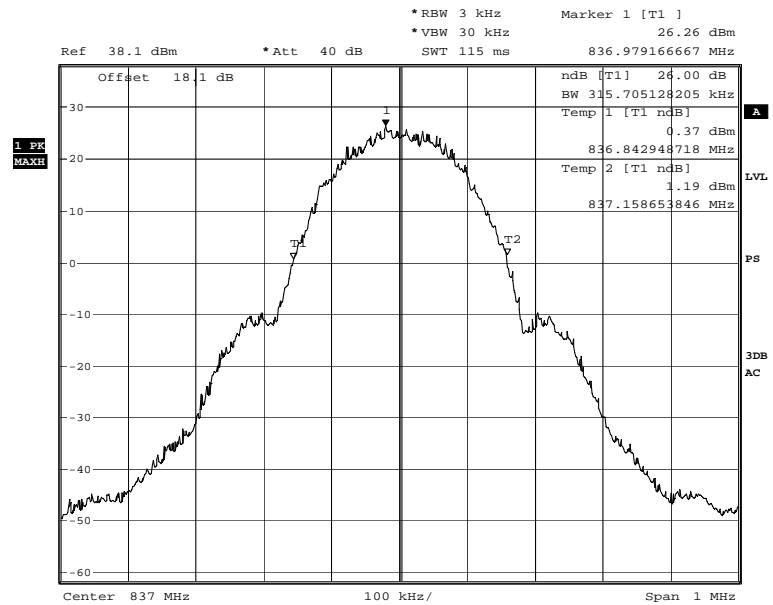
## 1.1. EMISSION BANDWIDTH

### GSM 850



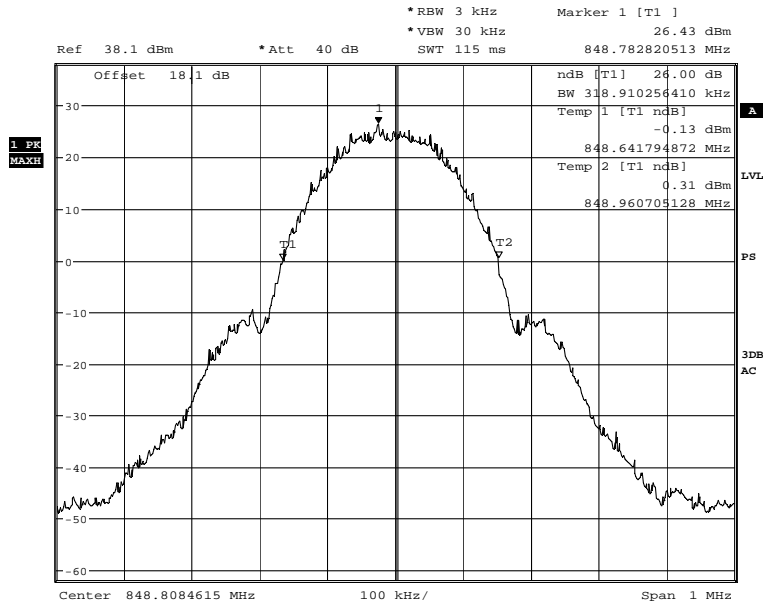
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### CHANNEL 128



Date: 19.DEC.2008 09:58:59

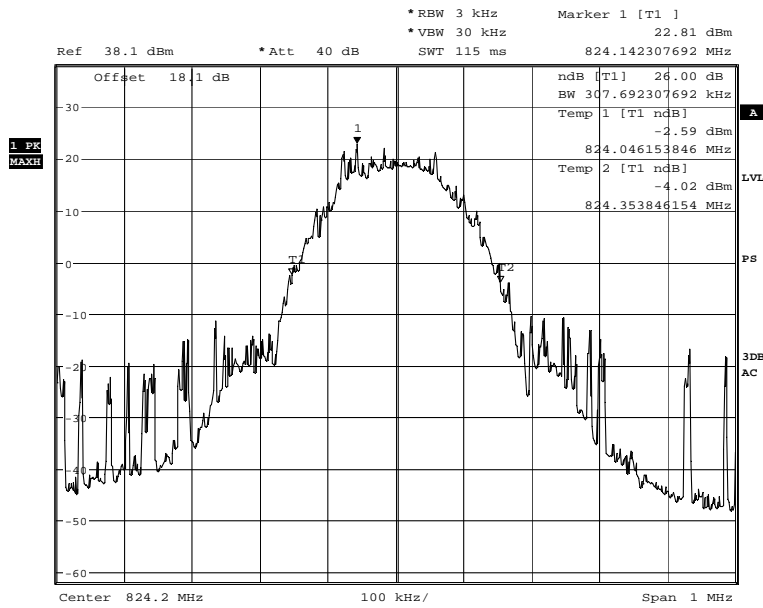
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Date: 19.DEC.2008 09:48:42

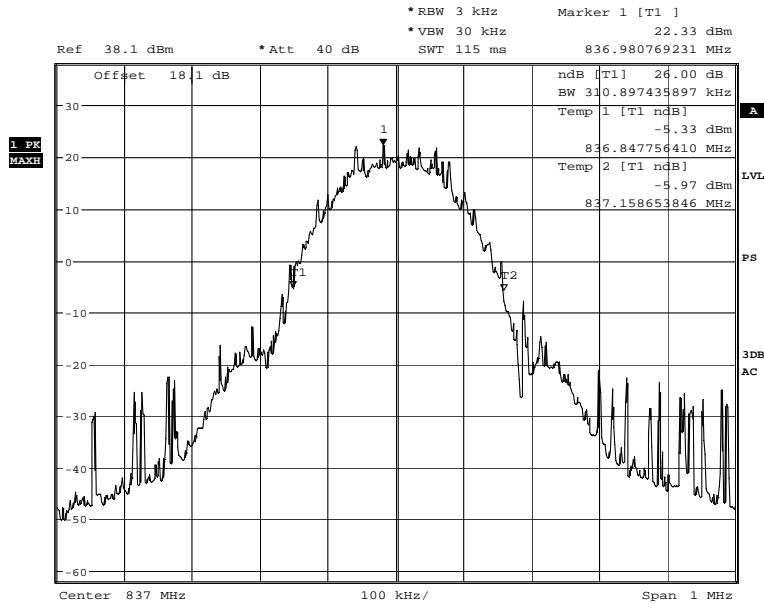
**CHANNEL 251**

**E-GPRS 850**



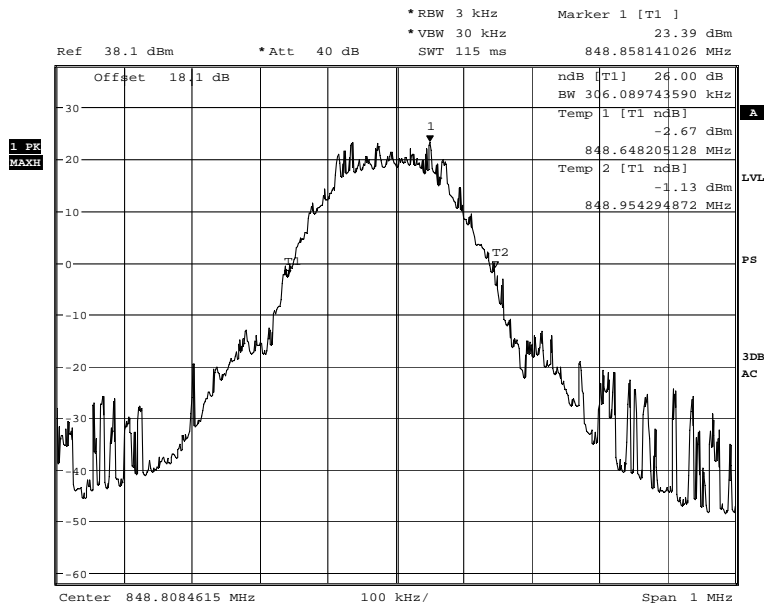
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**CHANNEL 128**



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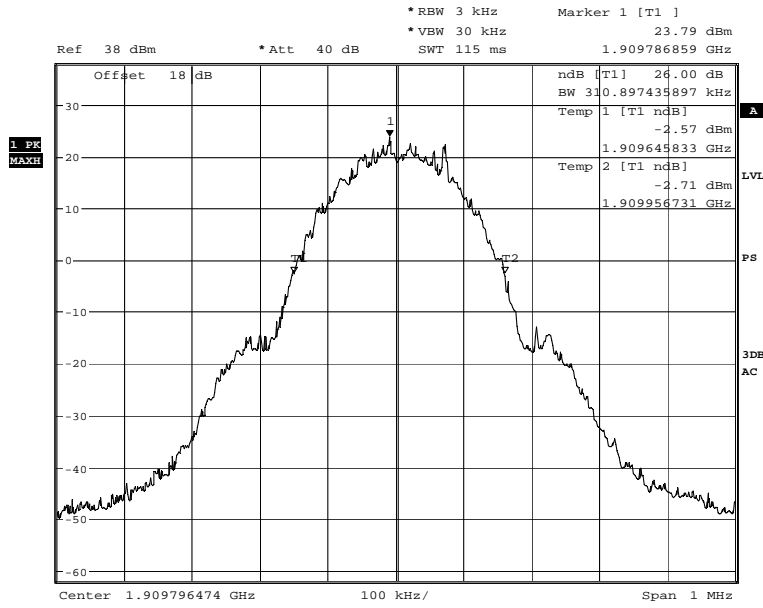
CHANNEL 192



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CHANNEL 251

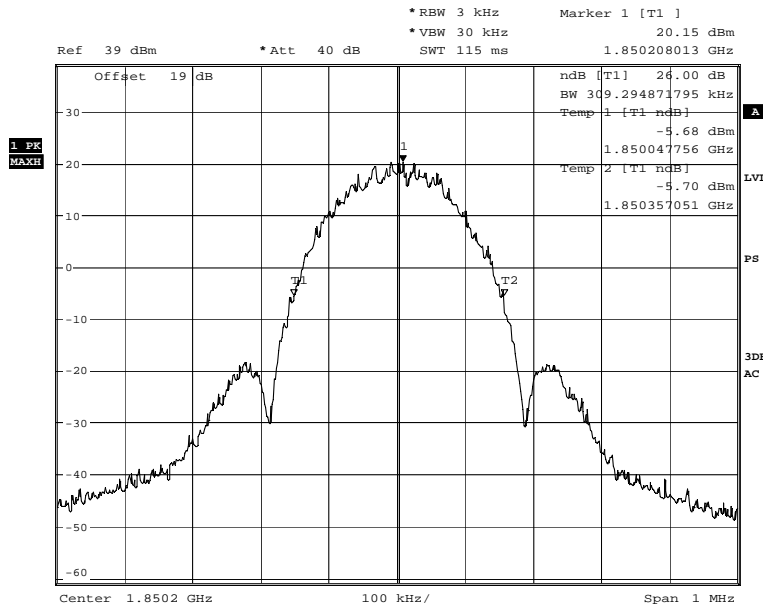




Date: 16.DEC.2008 10:03:55

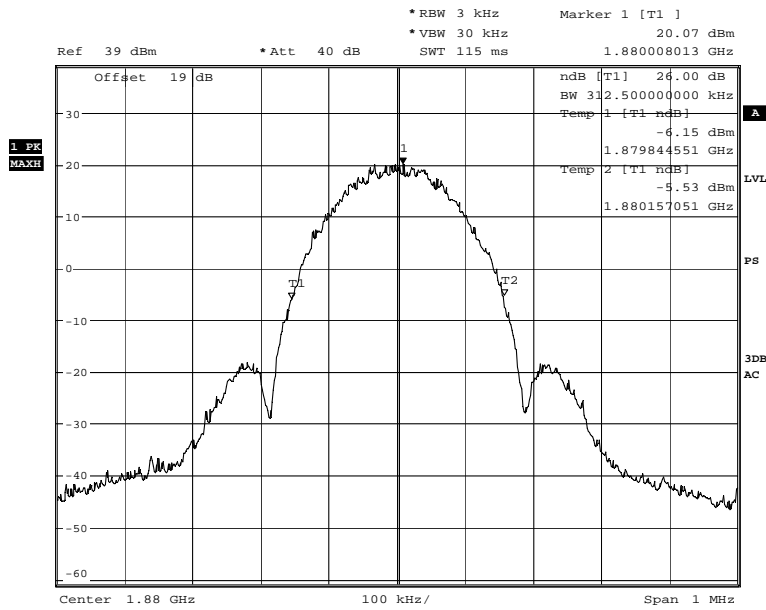
**CHANNEL 810**

**E-GPRS 1900**



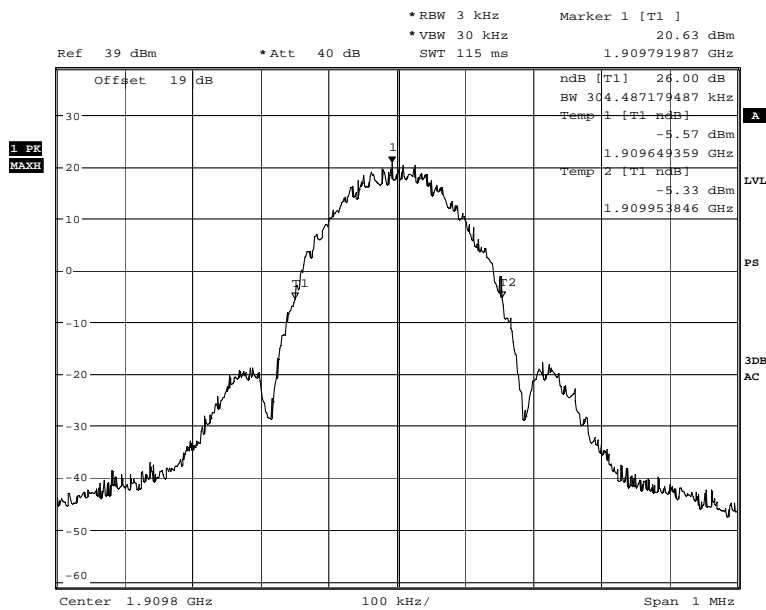
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**CHANNEL 512**



Date: 16.DEC.2008 15:31:08

### CHANNEL 661



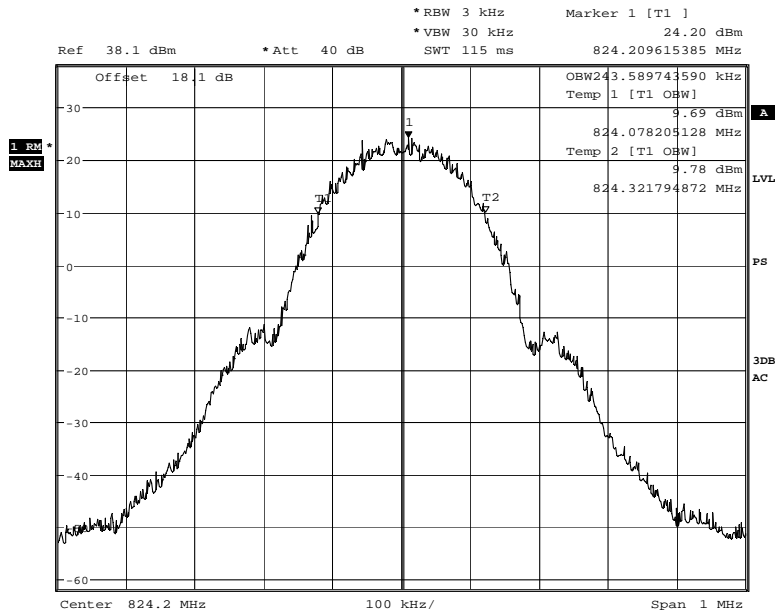
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### CHANNEL 810



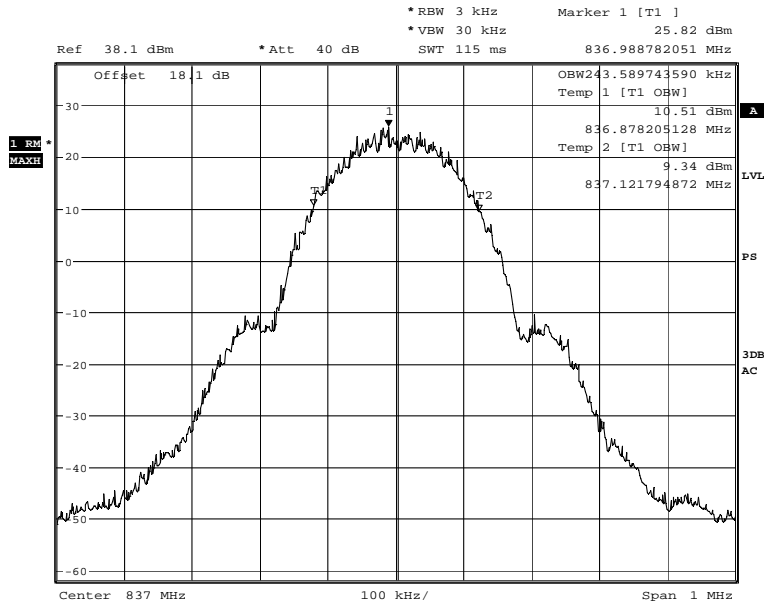
## 1.2. OCCUPIED 99% BANDWIDTH

### GSM 850



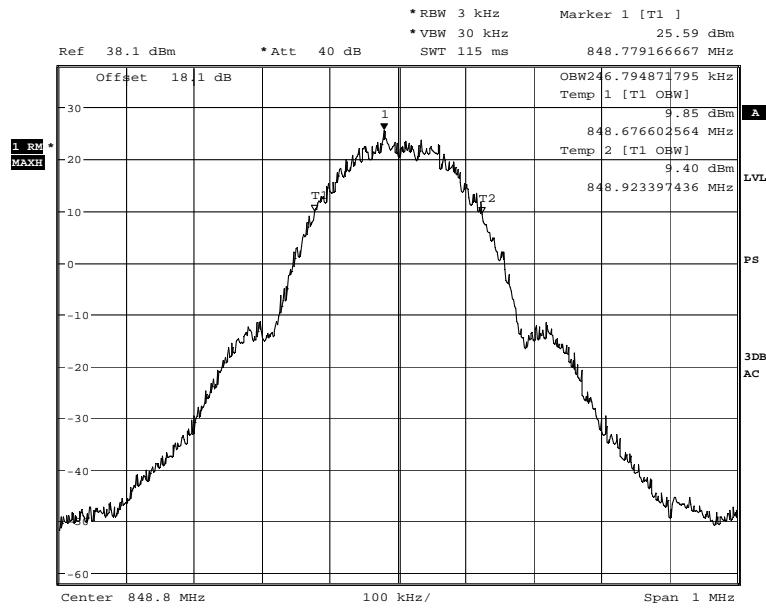
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### CHANNEL 128



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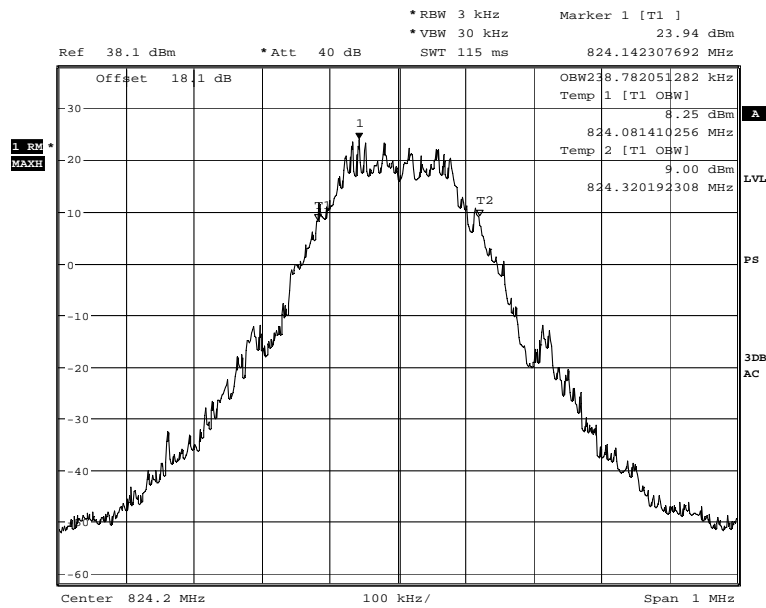
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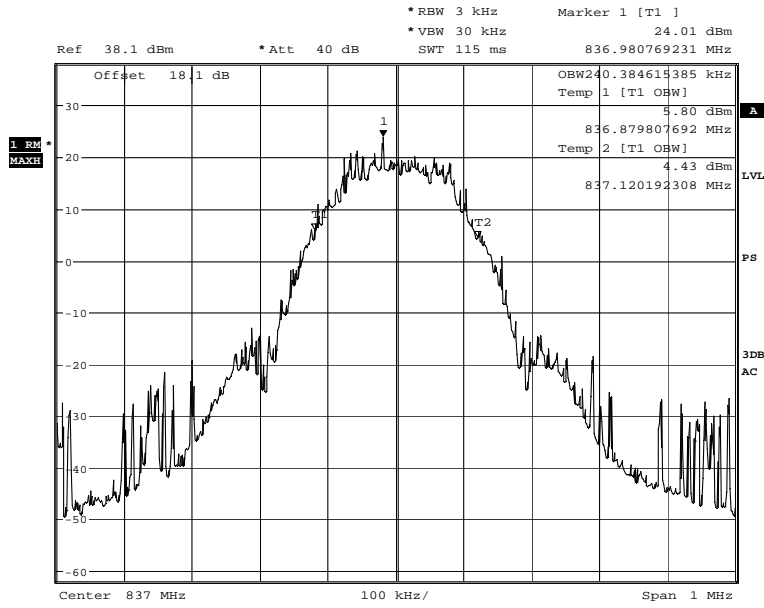
### CHANNEL 251

### E-GPRS 850



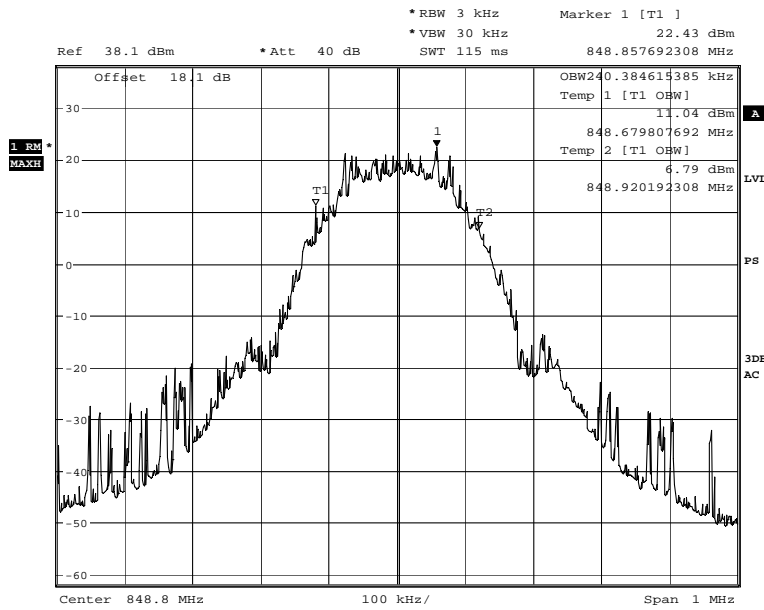
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### CHANNEL 128



Date: 19.DEC.2008 10:26:46

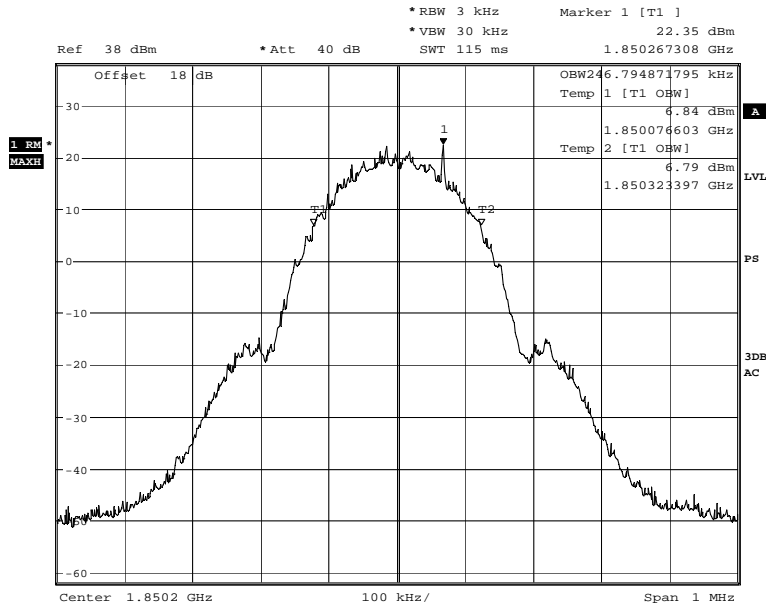
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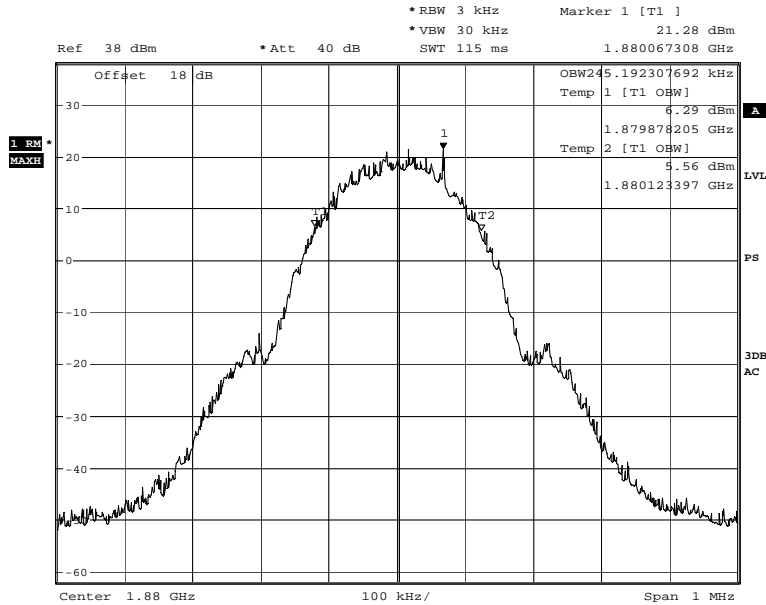
CHANNEL 251

### GSM 1900



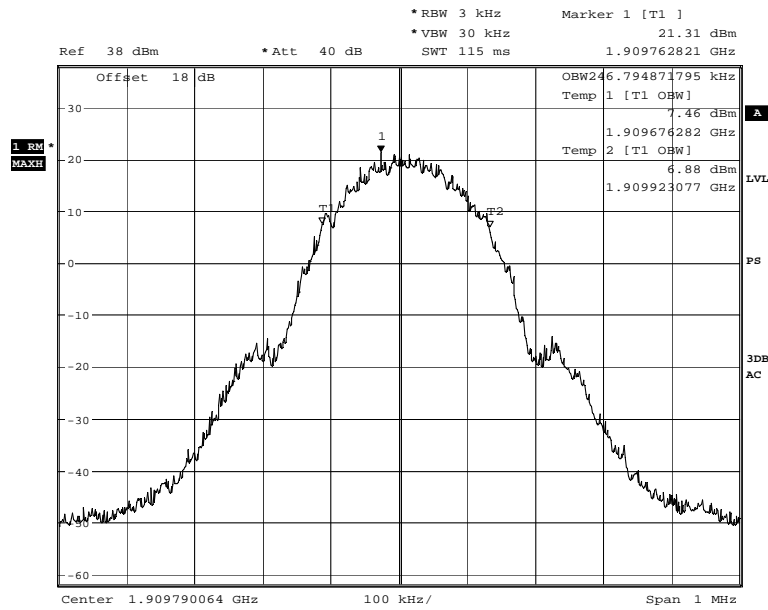
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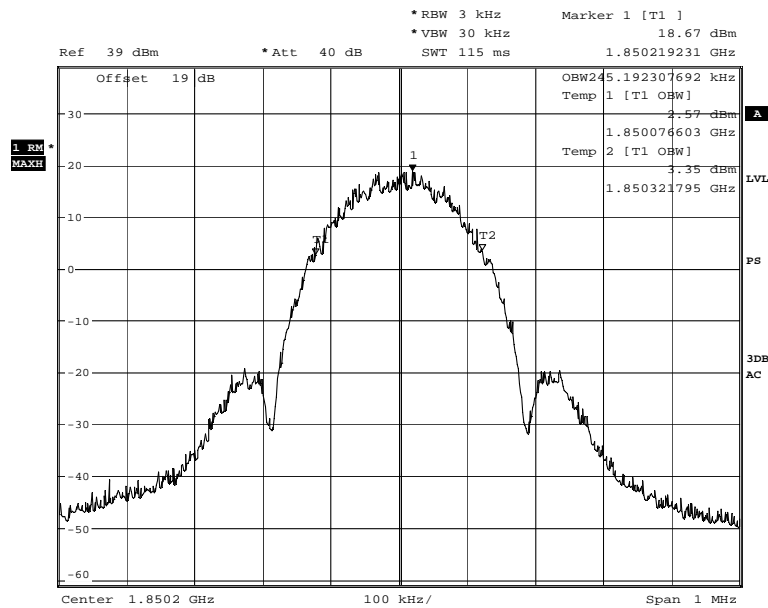
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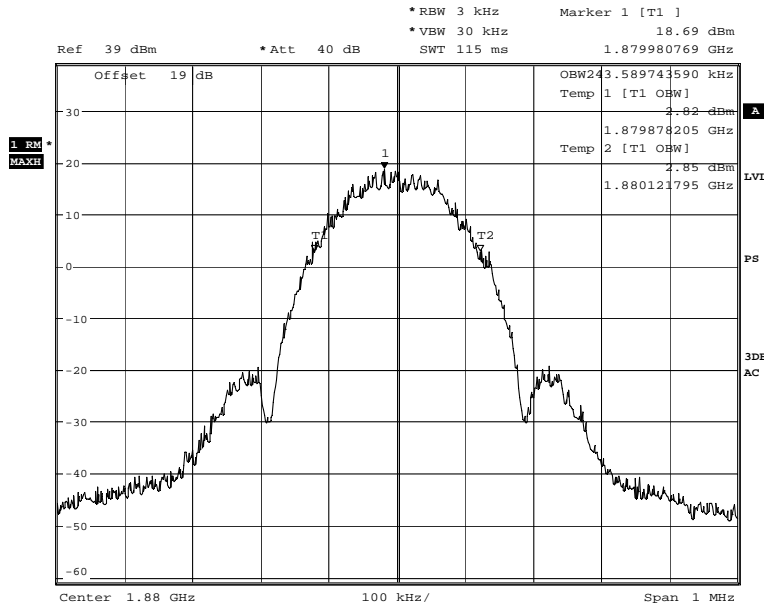
**CHANNEL 810**

**E-GPRS 1900**



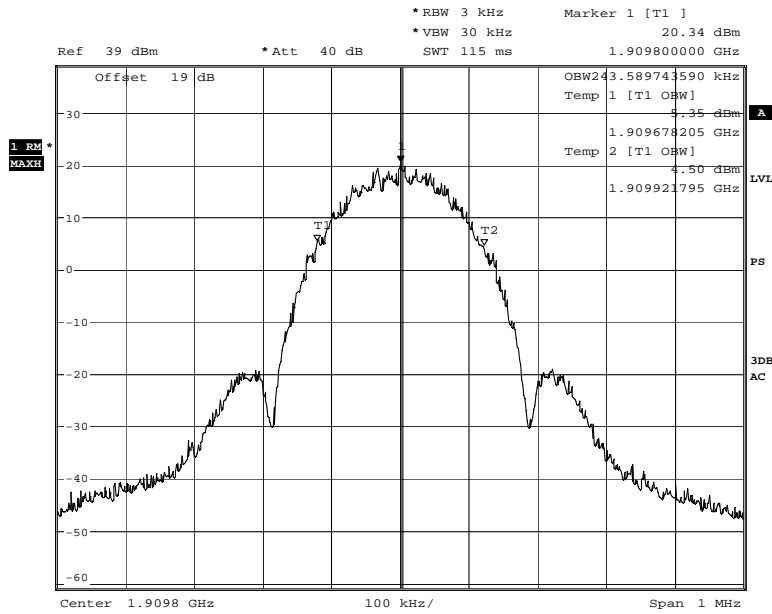
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**CHANNEL 512**



Date: 16.DEC.2008 15:49:38

CHANNEL 661

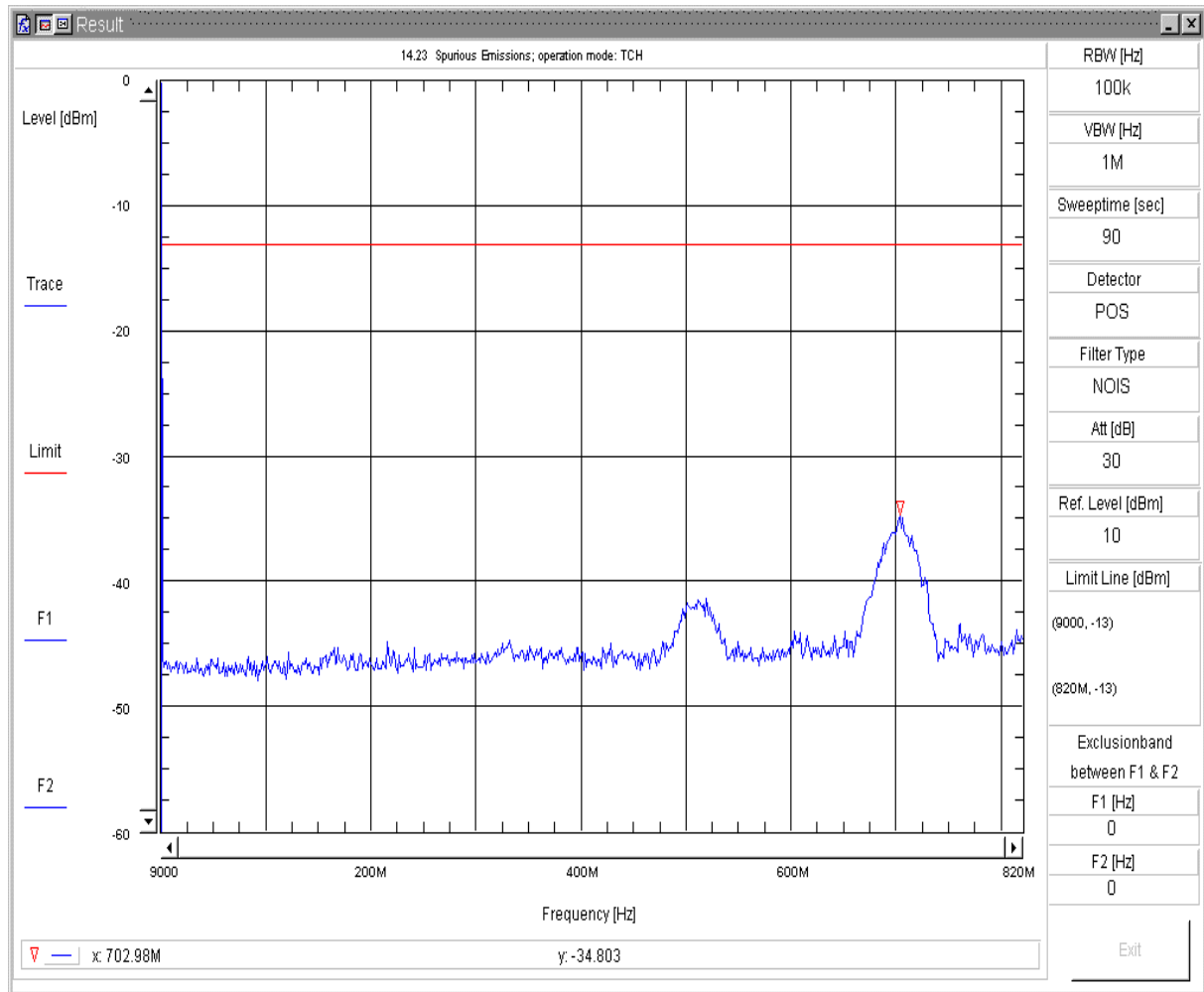


Date: 16.DEC.2008 15:46:25

CHANNEL 810

### 1.3. SPURIOUS EMISSIONS CONDUCTED

#### Diagrams - GSM 850 Mode

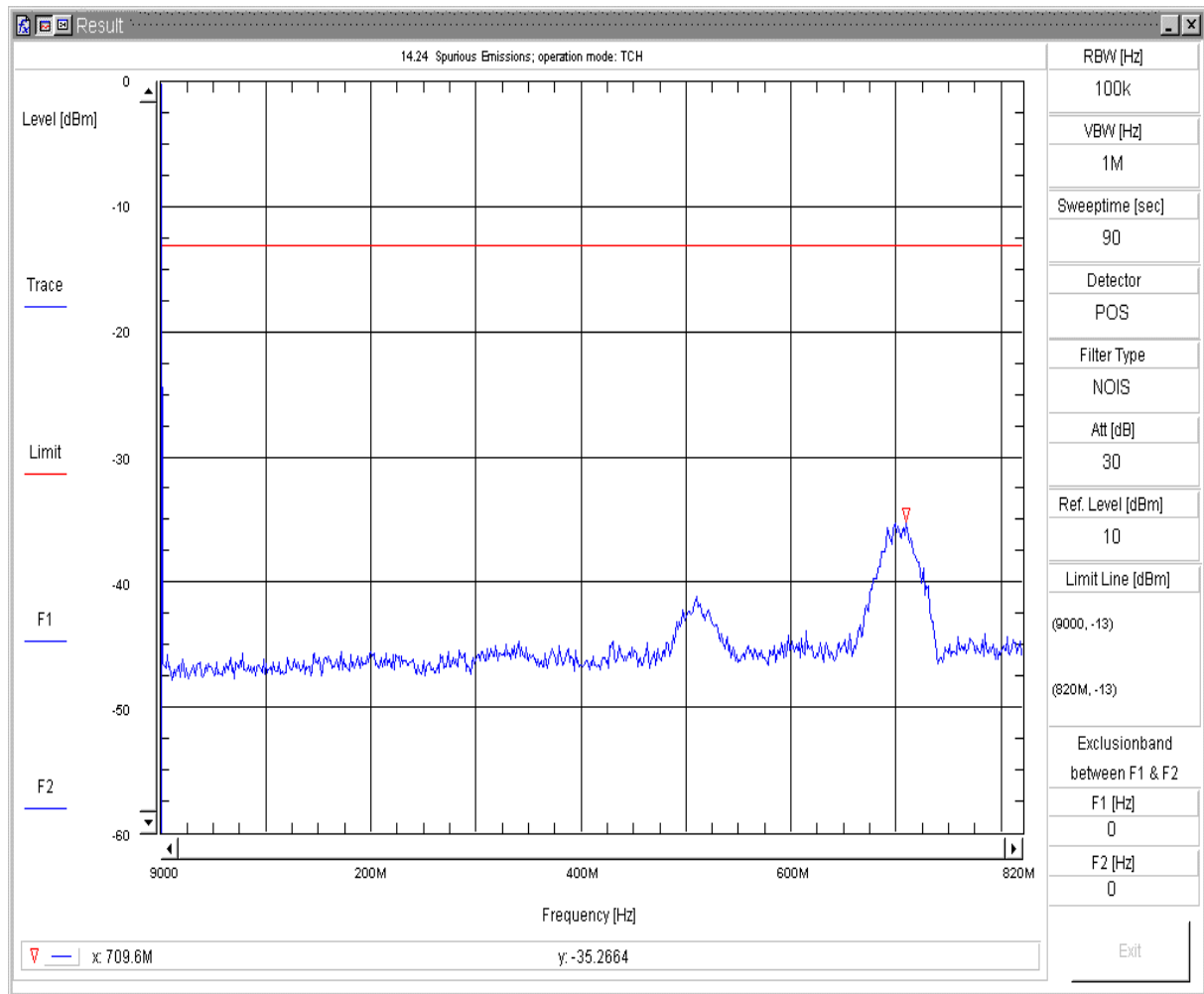


#### 14.23 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_22\_850\TD\_TX  
 Sweepnr: Sweep1  
 EUT OP Mode: FCC\_Part\_22\_850 TCH  
 UE Power: 25.1 dBm / 25.1 dBm  
 UE Status: Connection established (observed by operator)  
 EUT Description: Deimos + AC-Charger + Cradle + External Antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 128  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Fri 19/Dec/2008 10:53:130

Conducted Spurious Emissions V7.1.5



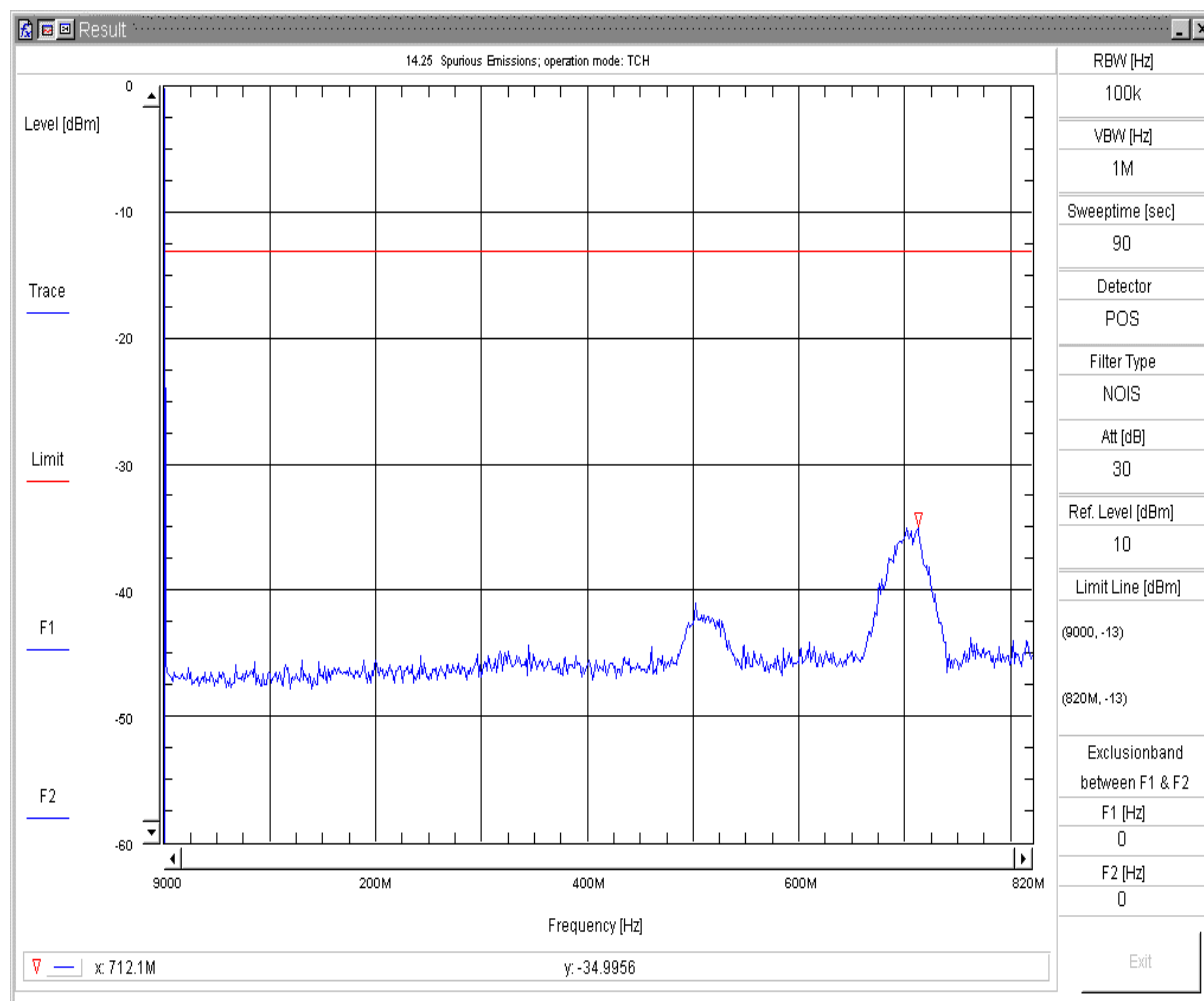
#### 14.24 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_22\_850\TD\_TX  
 Sweepnr: Sweep1  
 EUT OP Mode: FCC\_Part\_22\_850 TCH  
 UE Power: 27.3 dBm / 27.3 dBm  
 UE Status: Connection established (observed by operator)  
 EUT Description: Deimos + AC-Charger + Cradle + External Antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 192  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Fri 19/Dec/2008 10:58:100

Conducted Spurious Emissions V7.1.5





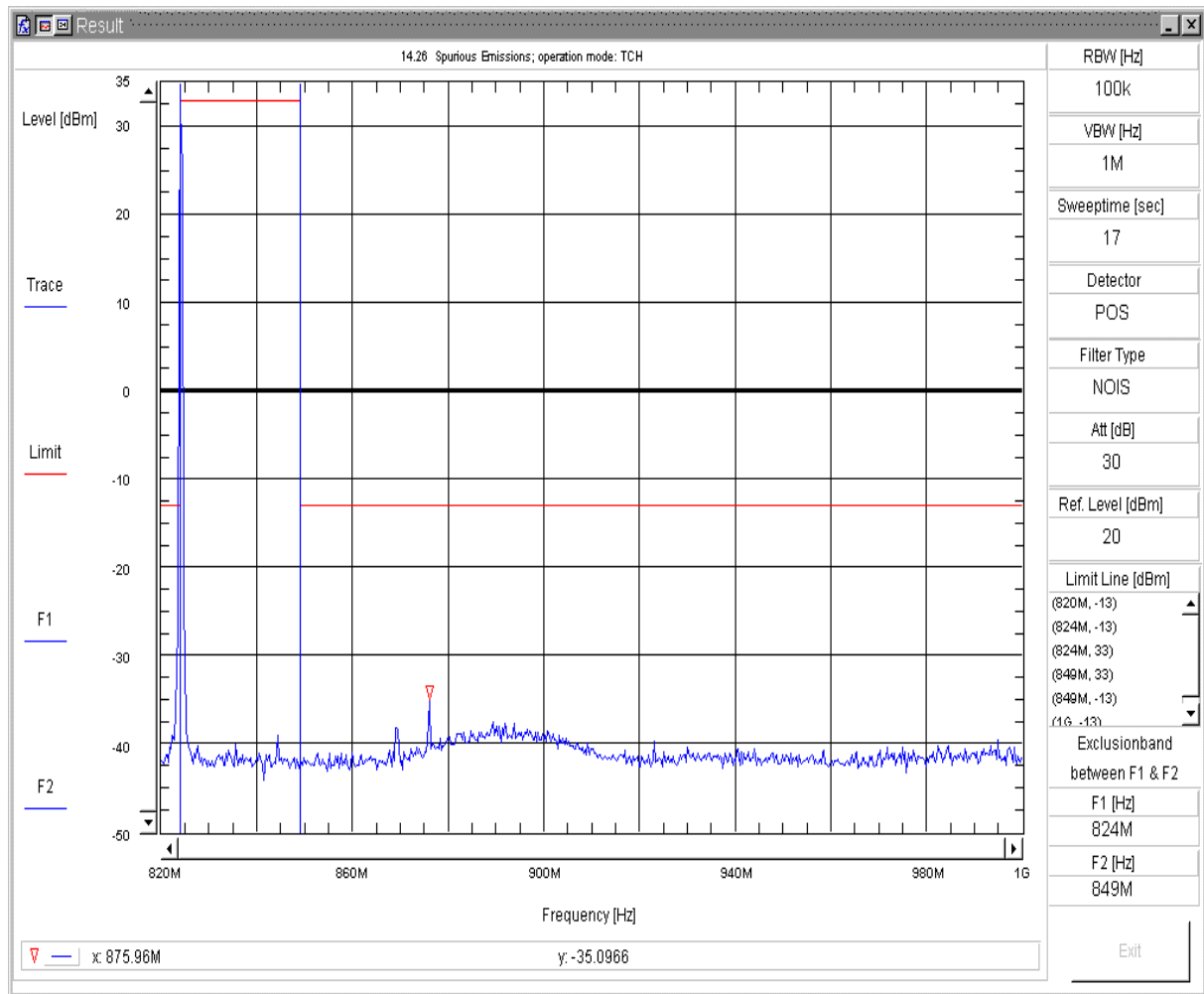
#### 14.25 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_22\_850\TD\_TX  
 Sweepnr: Sweep1  
 EUT OP Mode: FCC\_Part\_22\_850 TCH  
 UE Power: 23.5 dBm / 23.5 dBm  
 UE Status: Connection established (observed by operator)

EUT Description: Deimos + AC-Charger + Cradle + External Antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 251  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Fri 19/Dec/2008 11:03:410

Conducted Spurious Emissions V7.1.5

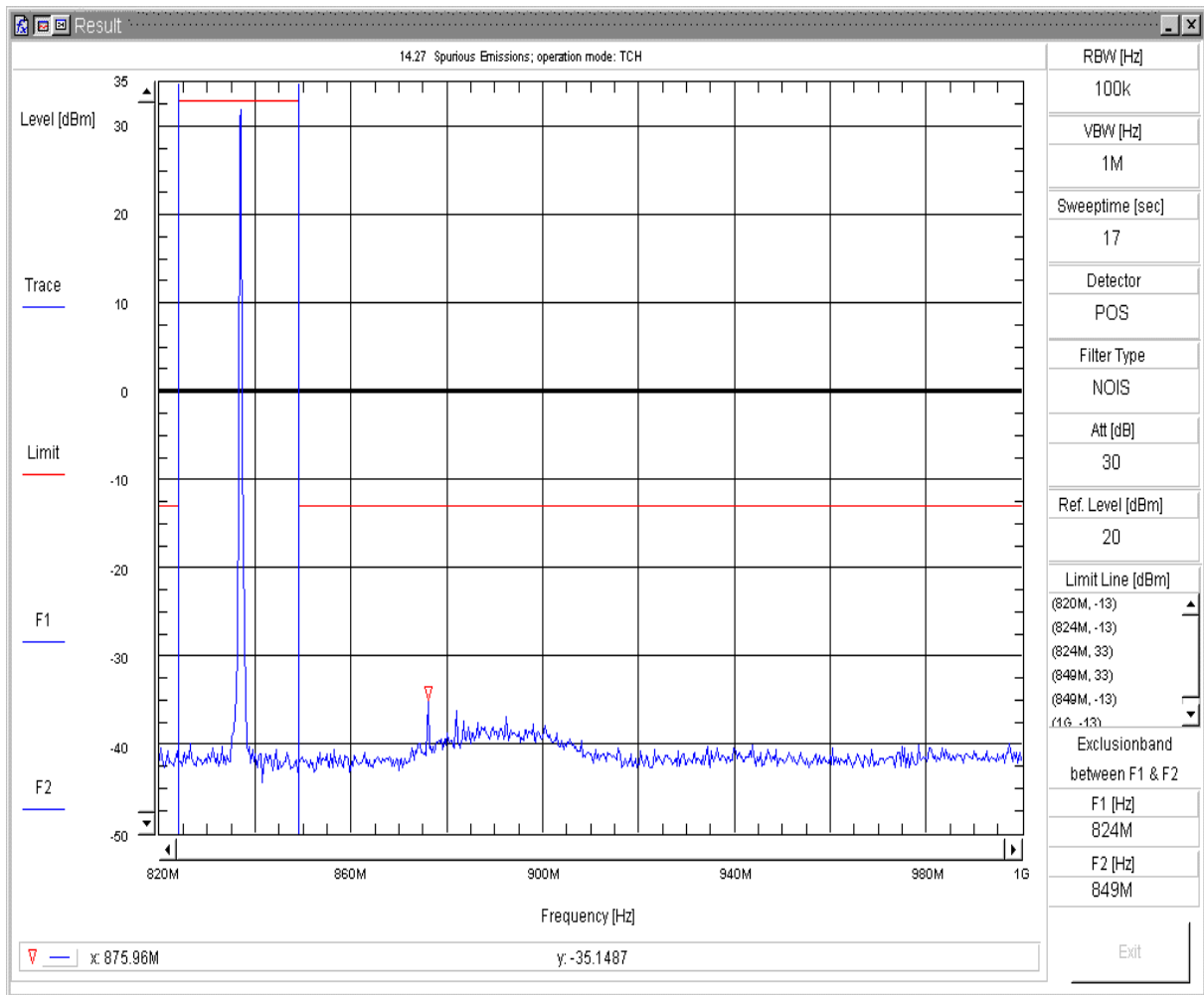


#### 14.26 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_22\_850\TD\_TX  
 Sweepnr: Sweep2  
 EUT OP Mode: FCC\_Part\_22\_850 TCH  
 UE Power: 23.6 dBm / 23.6 dBm  
 UE Status: Connection established (observed by operator)  
 EUT Description: Deimos + AC-Charger + Cradle + External Antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 128  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Fri 19/Dec/2008 11:15:390

Conducted Spurious Emissions V7.1.5

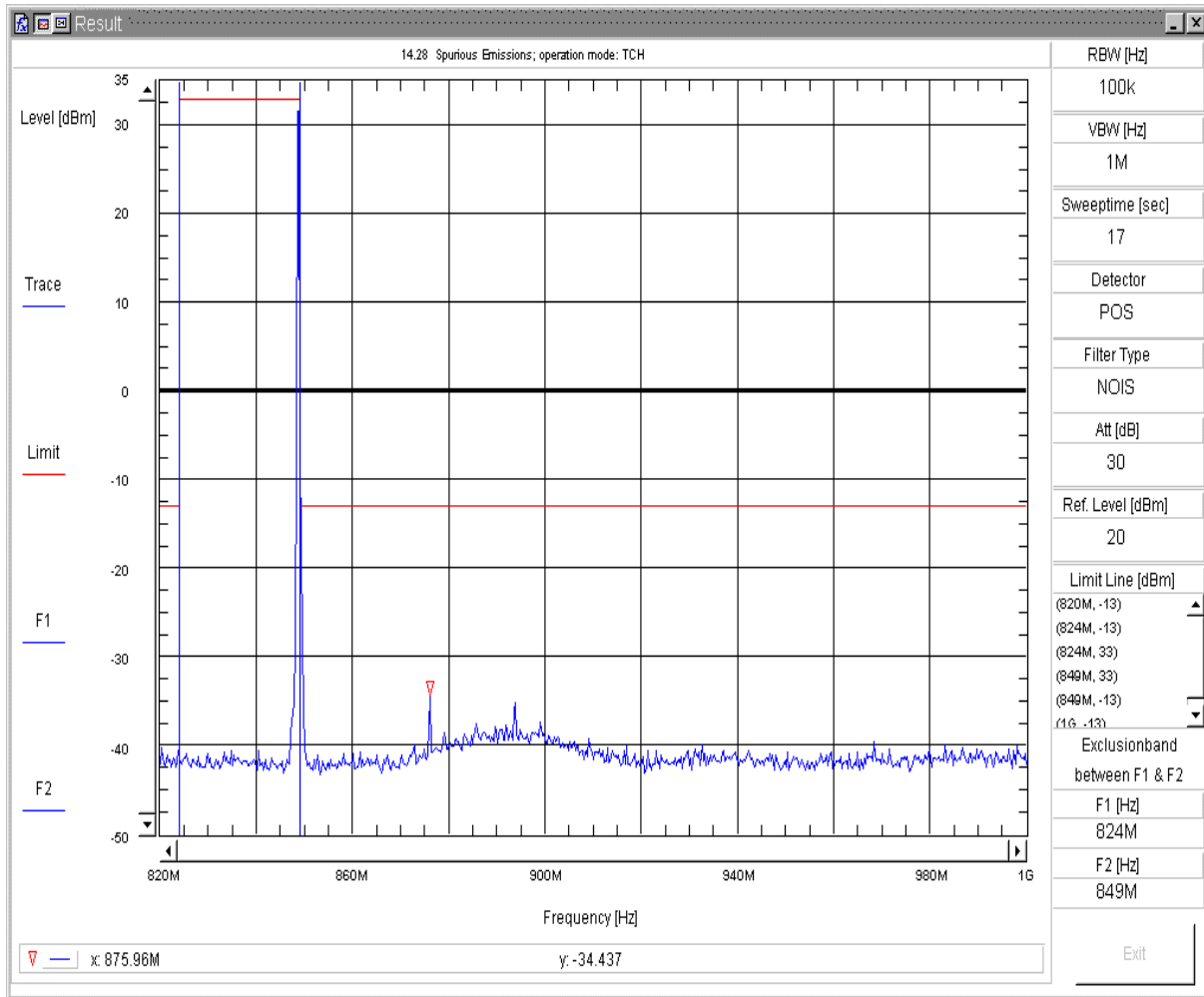


#### 14.27 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_22\_850\TD\_TX  
 Sweepnr: Sweep2  
 EUT OP Mode: FCC\_Part\_22\_850 TCH  
 UE Power: 24.0 dBm / 24.0 dBm  
 UE Status: Connection established (observed by operator)  
 EUT Description: Deimos + AC-Charger + Cradle + External Antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 192  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Fri 19/Dec/2008 11:13:530

Conducted Spurious Emissions V7.1.5



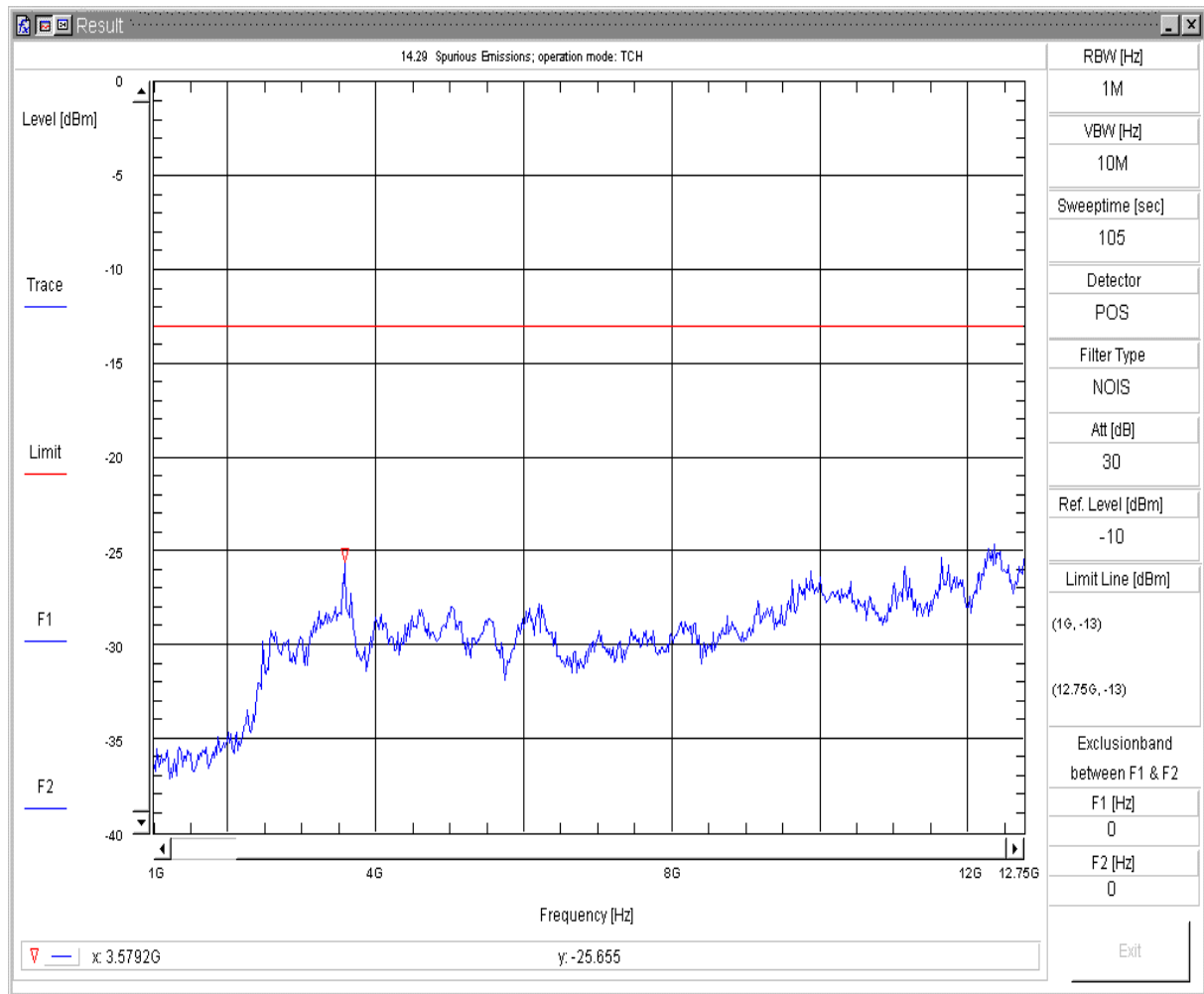
14.28 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_22\_850\TD\_TX  
 Sweepnr: Sweep2  
 EUT OP Mode: FCC\_Part\_22\_850 TCH  
 UE Power: 24.0 dBm / 24.0 dBm  
 UE Status: Connection established (observed by operator)

EUT Description: Deimos + AC-Charger + Cradle + External Antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 251  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Fri 19/Dec/2008 11:07:330

Conducted Spurious Emissions V7.1.5



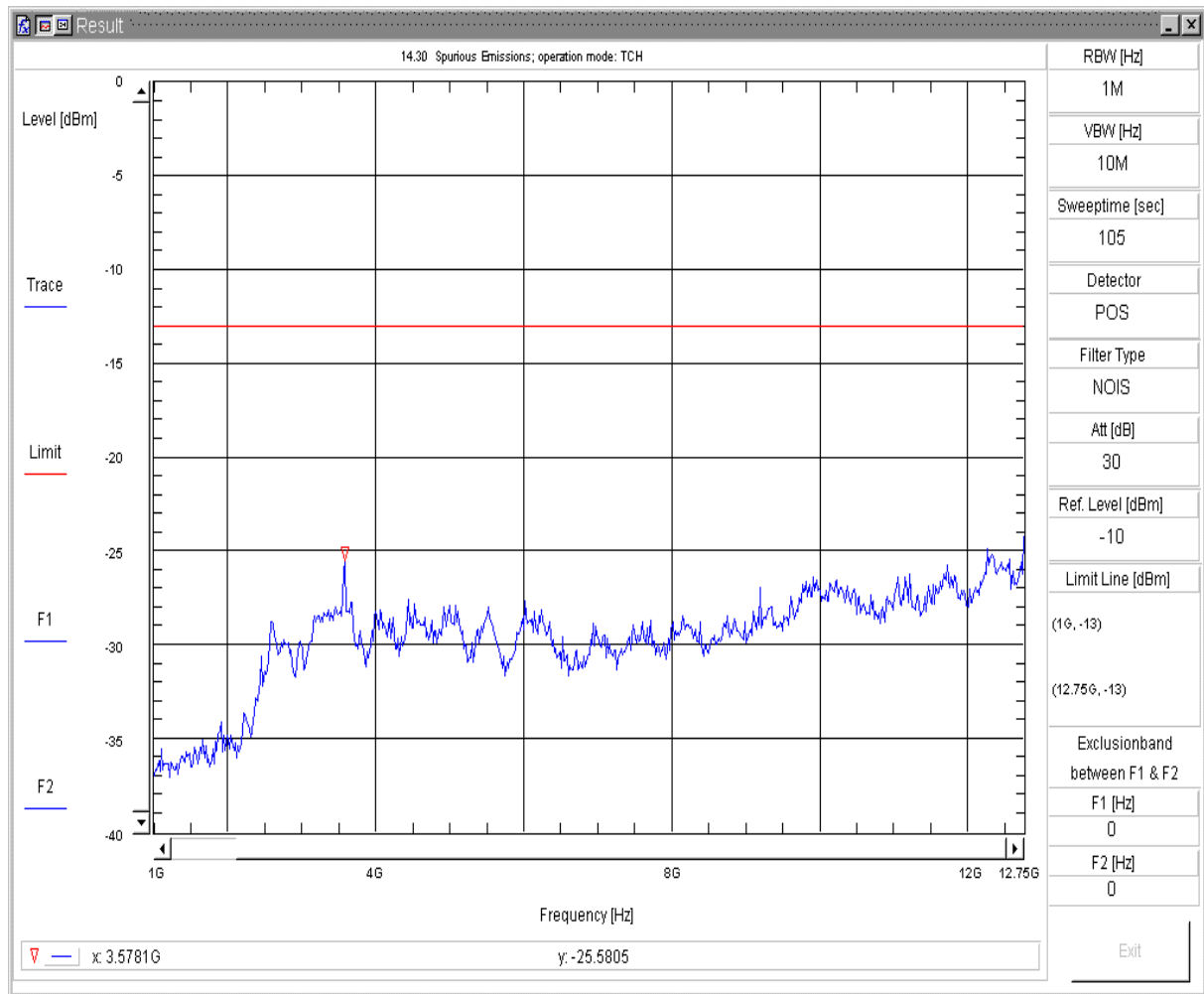
#### 14.29 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_22\_850\TD\_TX  
 Sweepnr: Sweep3  
 EUT OP Mode: FCC\_Part\_22\_850 TCH  
 UE Power: 27.4 dBm / 27.4 dBm  
 UE Status: Connection established (observed by operator)

EUT Description: Deimos + AC-Charger + Cradle + External Antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 128  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Fri 19/Dec/2008 11:17:020

Conducted Spurious Emissions V7.1.5



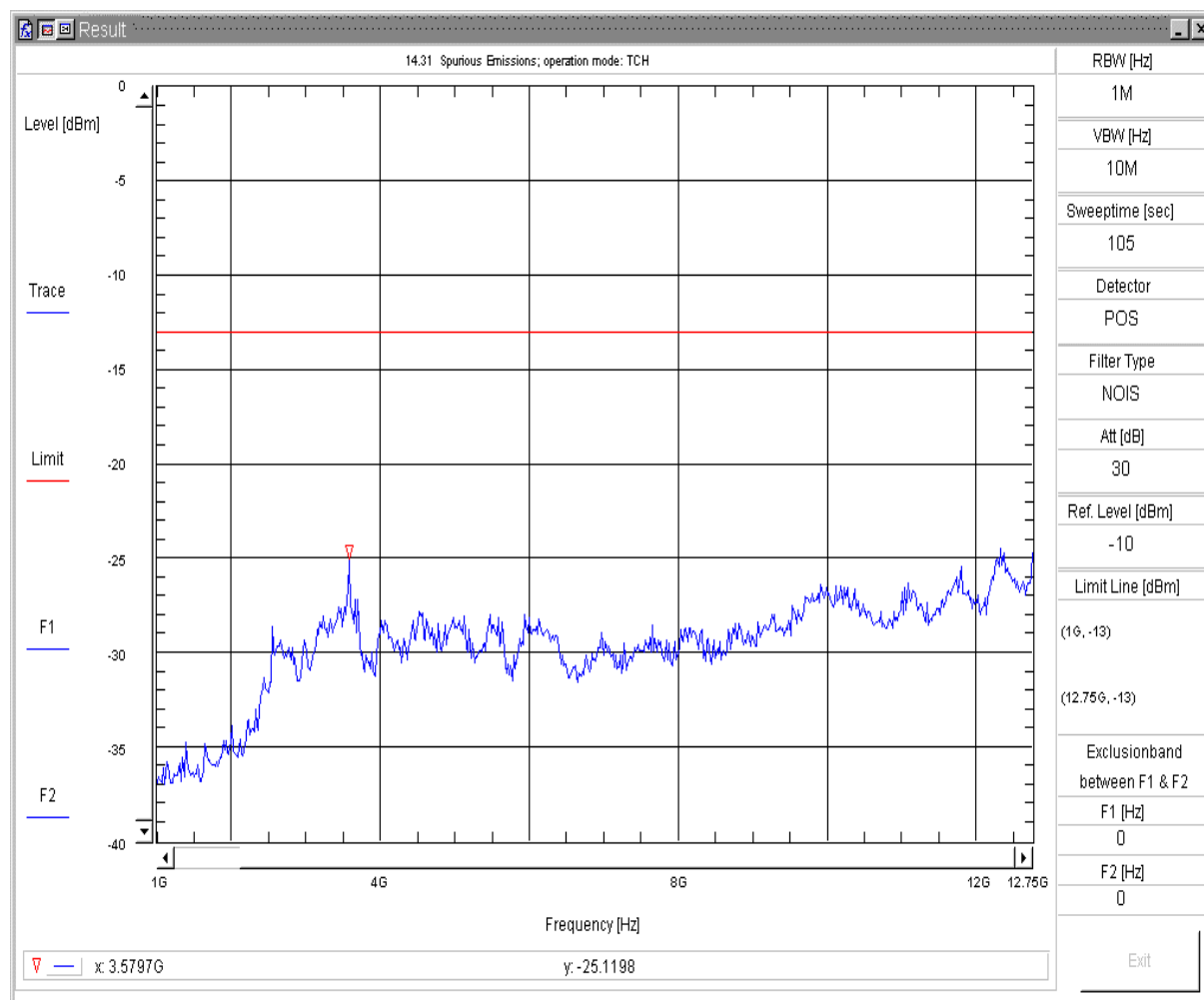
### 14.30 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_22\_850\TD\_TX  
 Sweepnr: Sweep3  
 EUT OP Mode: FCC\_Part\_22\_850 TCH  
 UE Power: 27.4 dBm / 27.4 dBm  
 UE Status: Connection established (observed by operator)

EUT Description: Deimos + AC-Charger + Cradle + External Antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 192  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Fri 19/Dec/2008 11:20:210

Conducted Spurious Emissions V7.1.5



#### 14.31 Conducted Spurious Emission

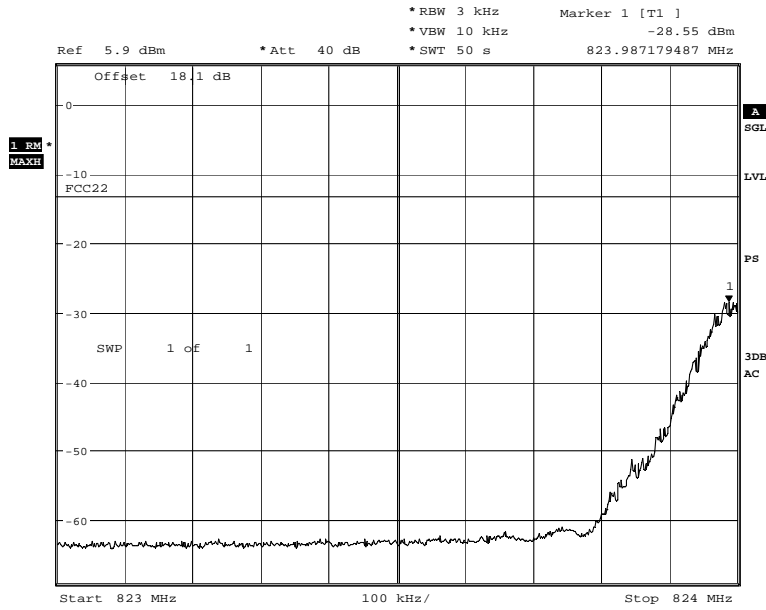
Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_22\_850\TD\_TX  
 Sweepnr: Sweep3  
 EUT OP Mode: FCC\_Part\_22\_850 TCH  
 UE Power: 27.3 dBm / 27.3 dBm  
 UE Status: Connection established (observed by operator)

EUT Description: Deimos + AC-Charger + Cradle + External Antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 251  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Fri 19/Dec/2008 11:25:350

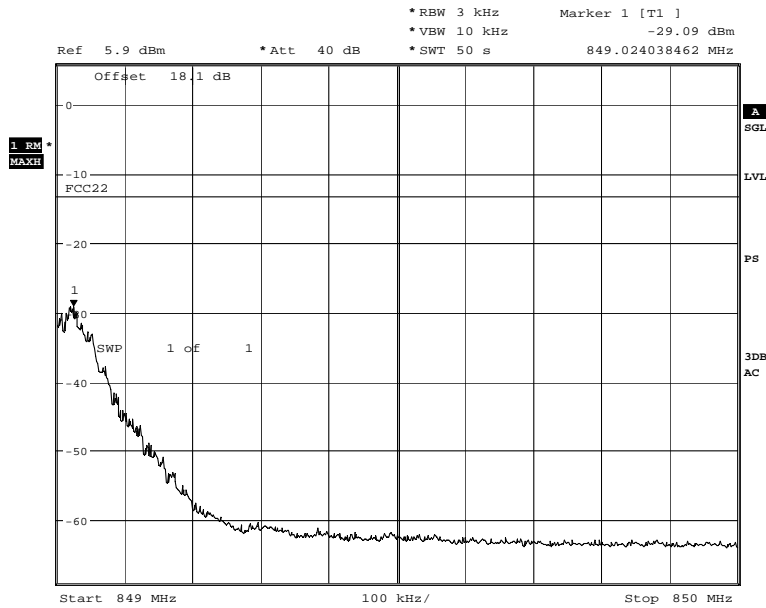
Conducted Spurious Emissions V7.1.5

**Band-Edge compliance**



Date: 19.DEC.2008 10:57:19

Diagram 14.43: Band Edge Channel 128 – GMSK

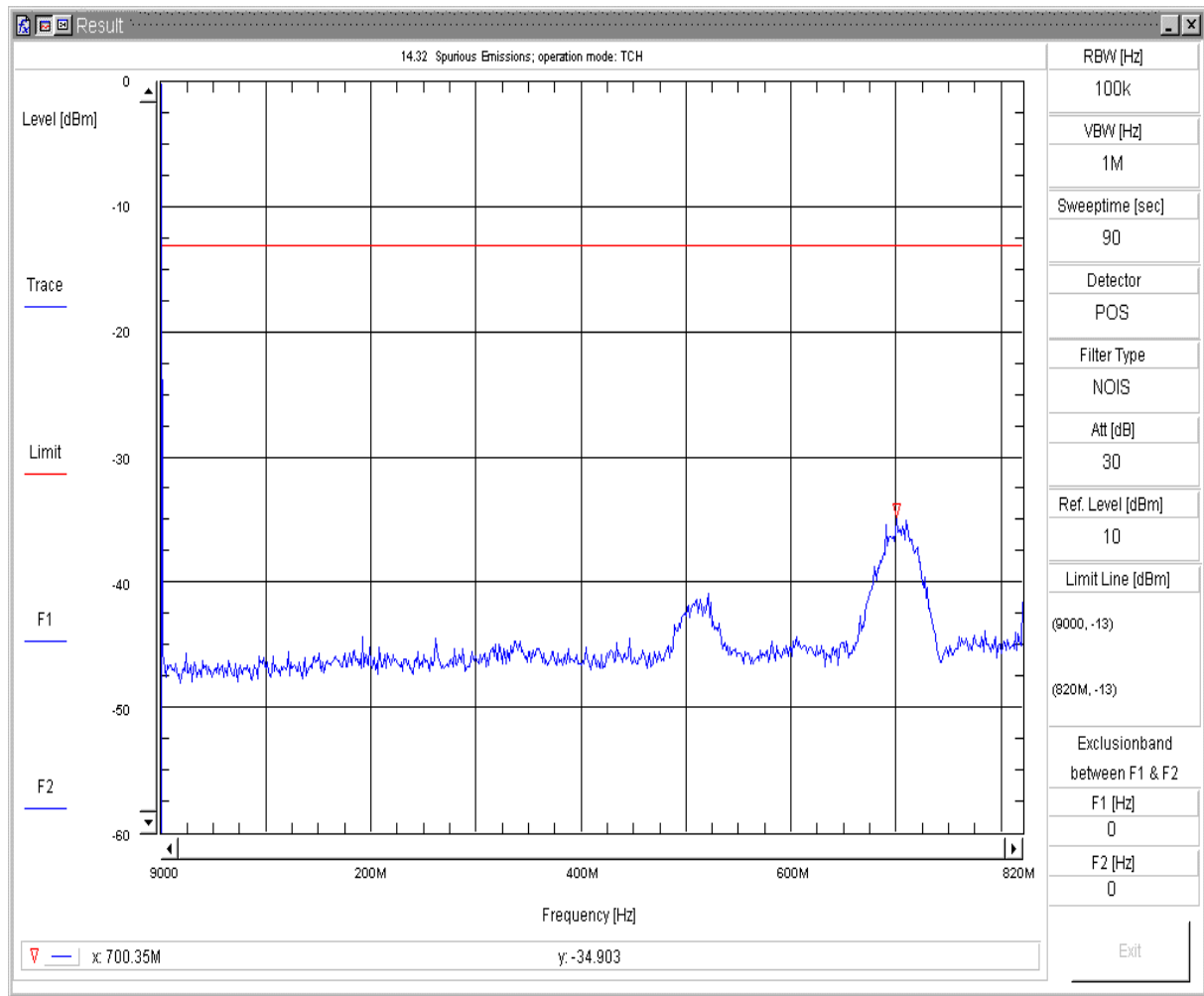


Date: 19.DEC.2008 10:54:38

Diagram 14.44: Band Edge Channel 251 – GMSK



## Diagrams - E-GPRS 850 mode



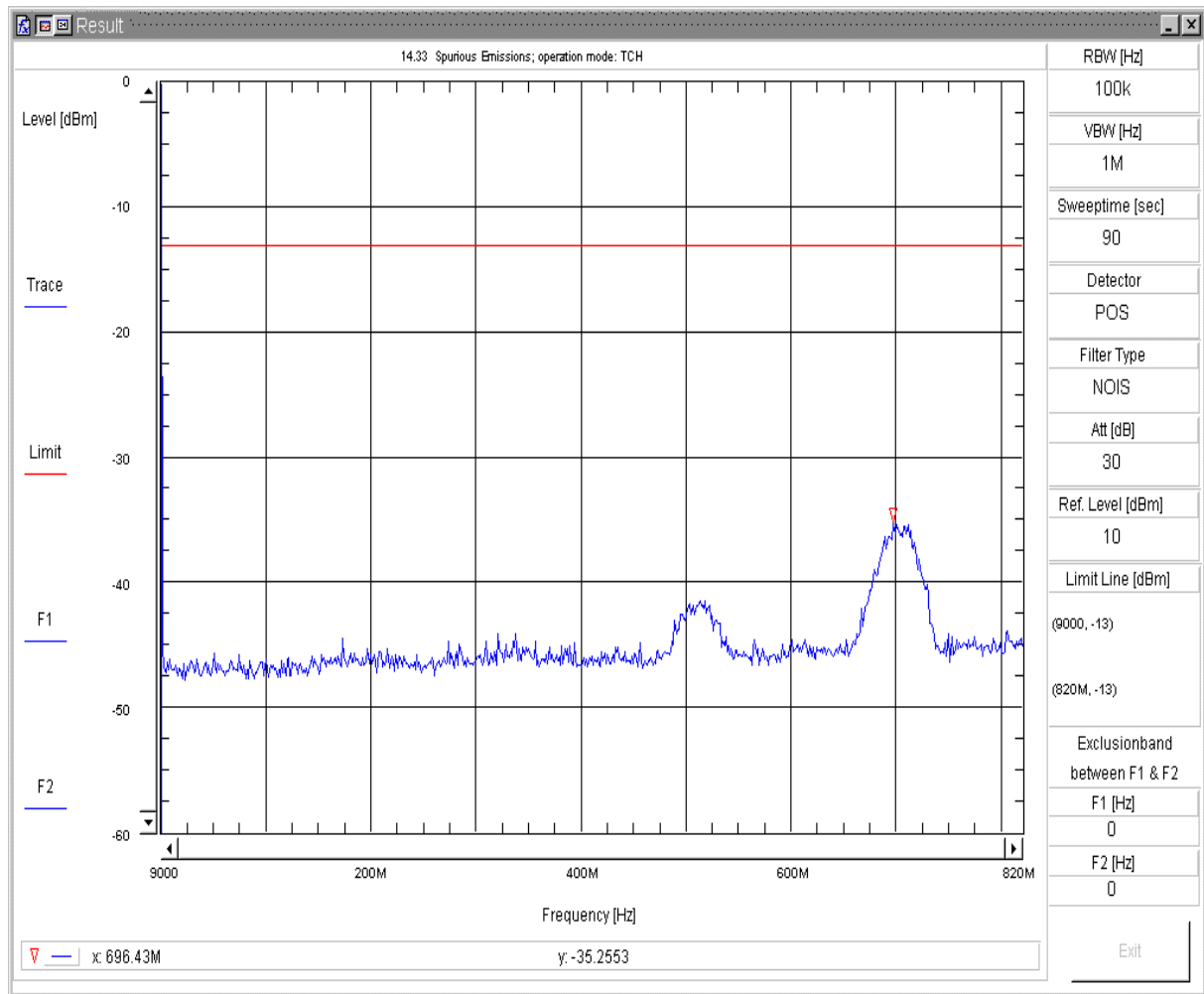
## 14.32 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_22\_850\TD\_TX  
 Sweepnr: Sweep1  
 EUT OP Mode: FCC\_Part\_22\_850 TCH  
 UE Power: 24.0 dBm / 24.0 dBm  
 UE Status: Connection established (observed by operator)

EUT Description: Deimos + AC-Charger + Cradle + External Antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 128  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Fri 19/Dec/2008 11:42:480

Conducted Spurious Emissions V7.1.5



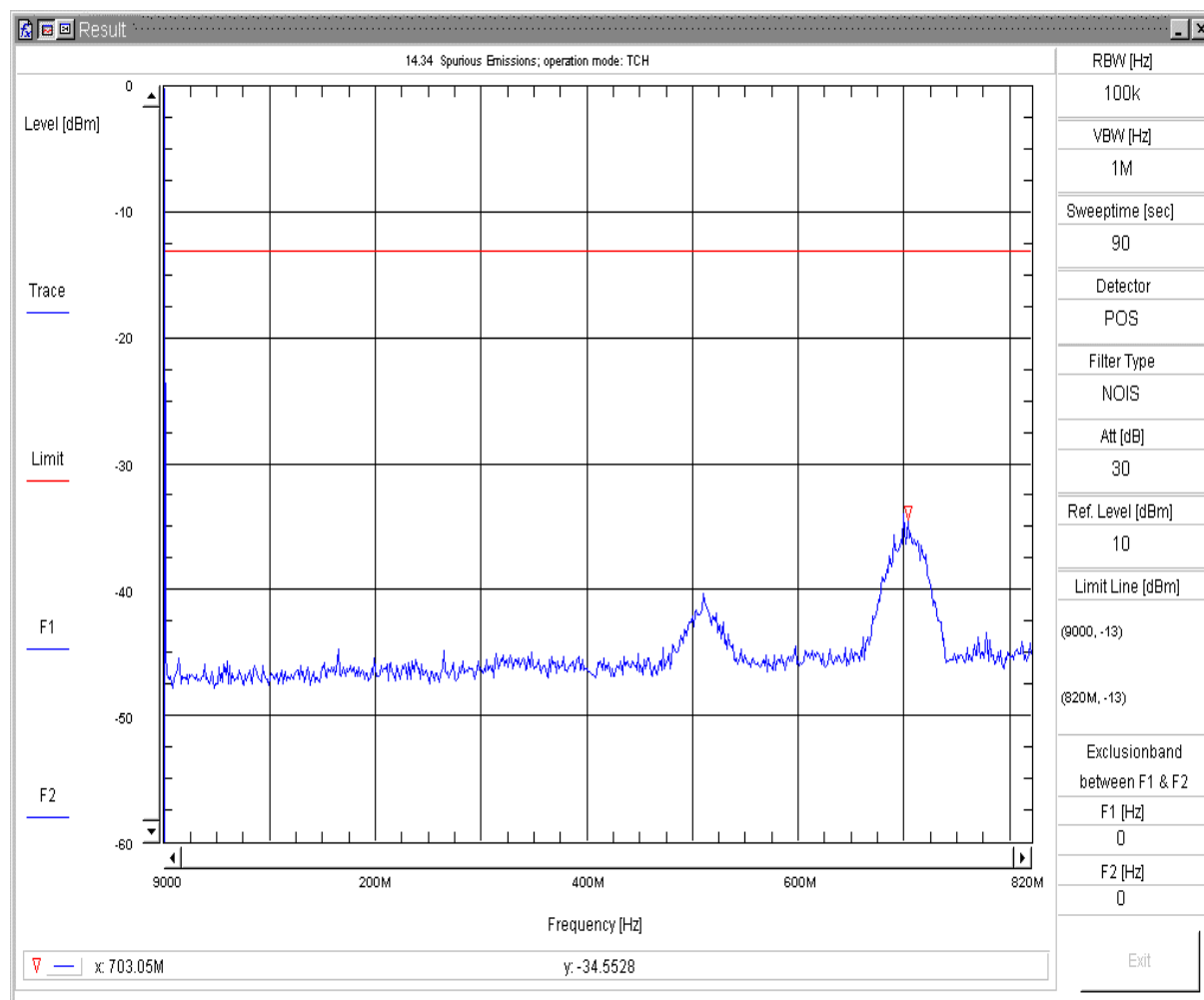
### 14.33 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_22\_850\TD\_TX  
 Sweepnr: Sweep1  
 EUT OP Mode: FCC\_Part\_22\_850 TCH  
 UE Power: 22.4 dBm / 22.4 dBm  
 UE Status: Connection established (observed by operator)

EUT Description: Deimos + AC-Charger + Cradle + External Antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 192  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Fri 19/Dec/2008 11:47:260

Conducted Spurious Emissions V7.1.5



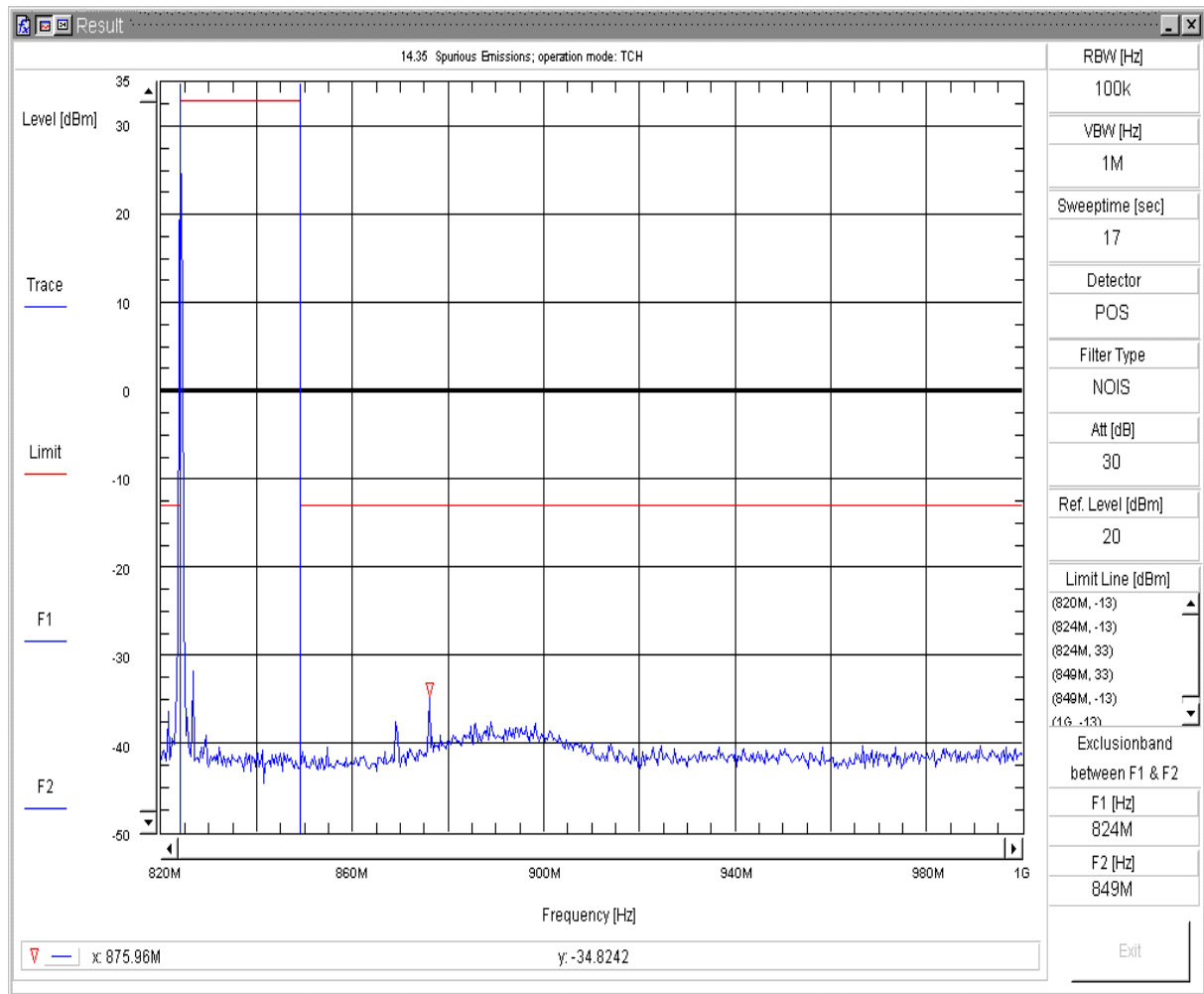
#### 14.34 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_22\_850\TD\_TX  
 Sweepnr: Sweep1  
 EUT OP Mode: FCC\_Part\_22\_850 TCH  
 UE Power: 19.3 dBm / 19.3 dBm  
 UE Status: Connection established (observed by operator)

EUT Description: Deimos + AC-Charger + Cradle + External Antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 251  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Fri 19/Dec/2008 11:54:480

Conducted Spurious Emissions V7.1.5



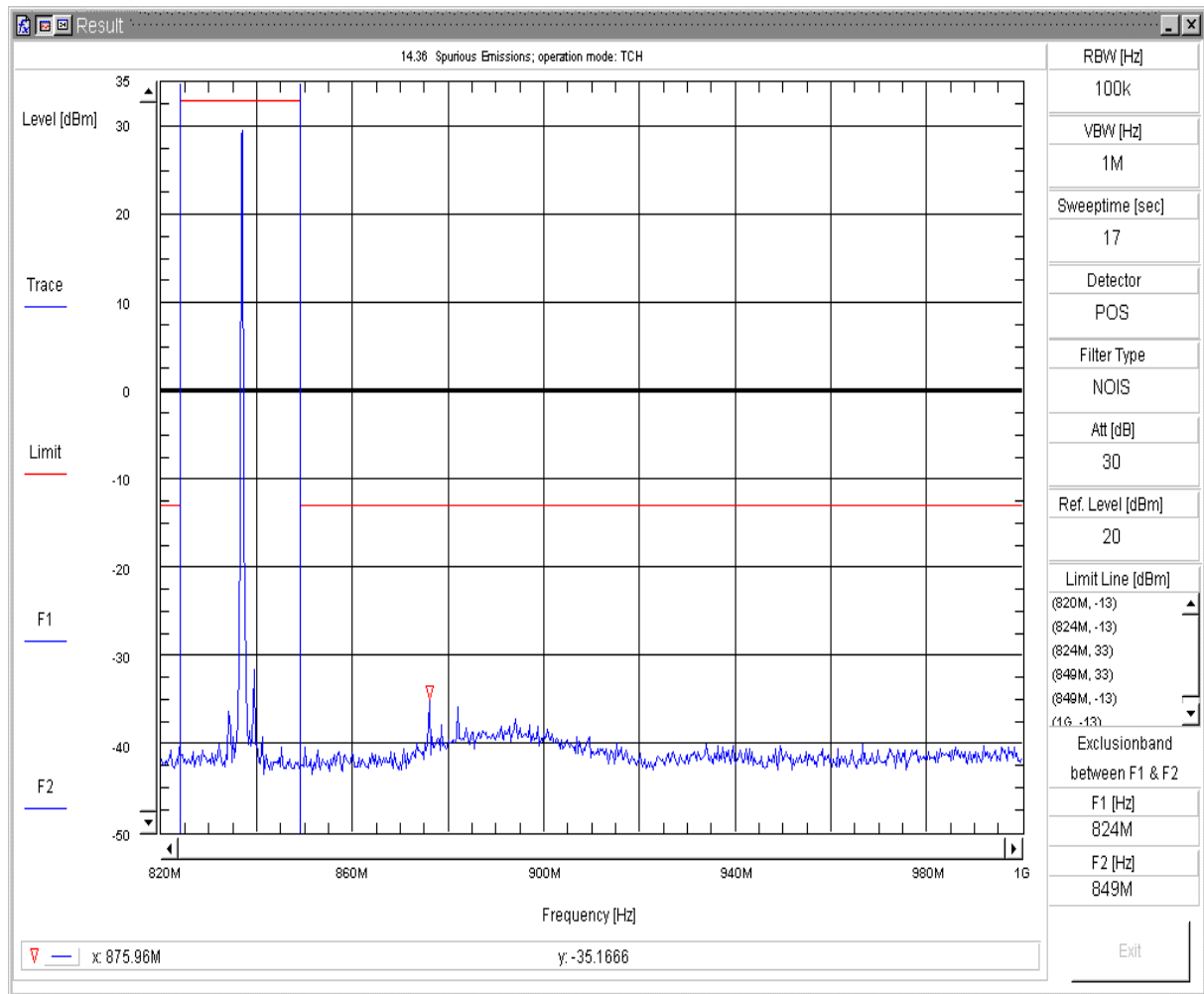
### 14.35 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_22\_850\TD\_TX  
 Sweepnr: Sweep2  
 EUT OP Mode: FCC\_Part\_22\_850 TCH  
 UE Power: 18.8 dBm / 18.8 dBm  
 UE Status: Connection established (observed by operator)

EUT Description: Deimos + AC-Charger + Cradle + External Antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 128  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Fri 19/Dec/2008 12:11:000

Conducted Spurious Emissions V7.1.5



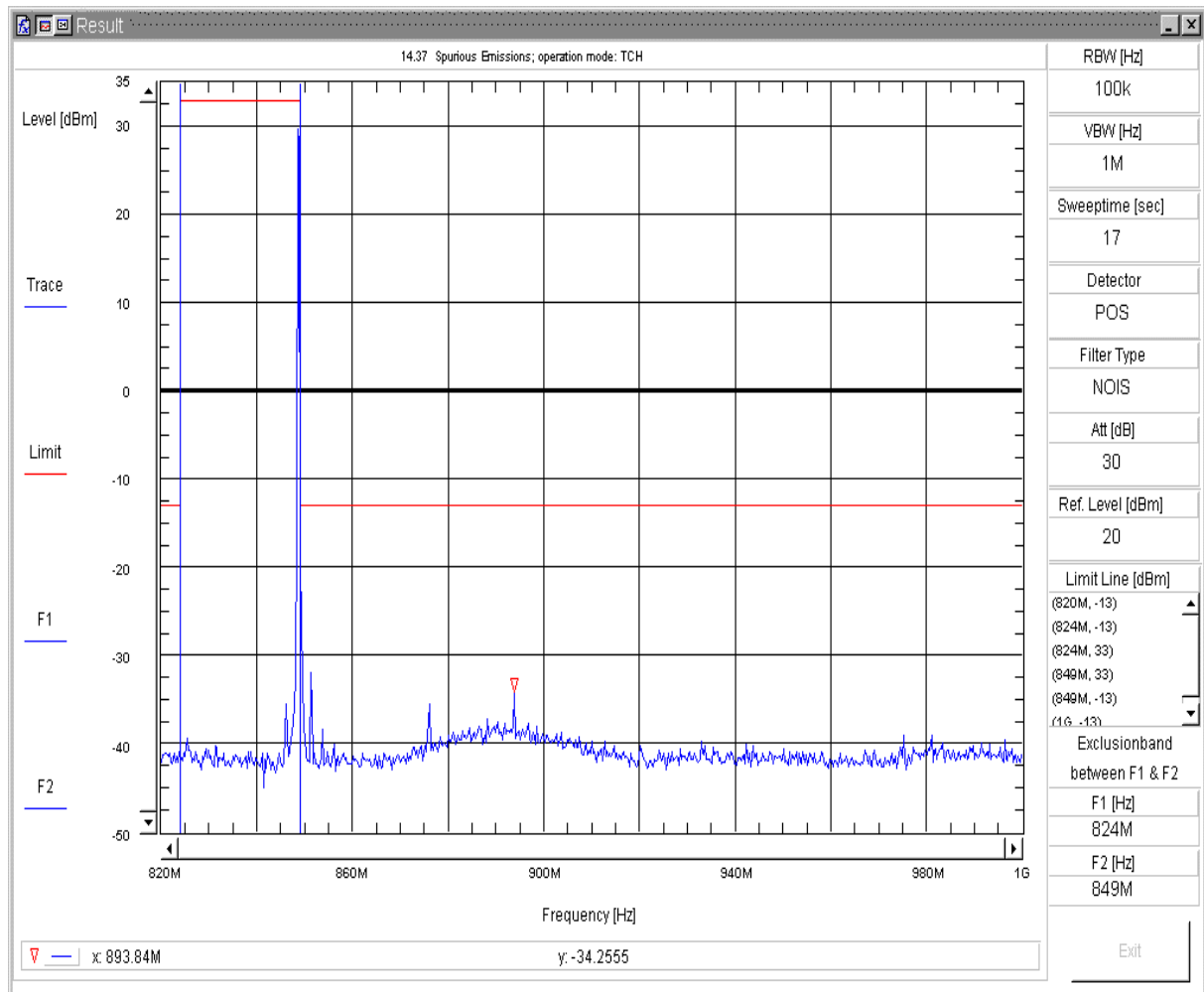
### 14.36 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_22\_850\TD\_TX  
 Sweepnr: Sweep2  
 EUT OP Mode: FCC\_Part\_22\_850 TCH  
 UE Power: 19.2 dBm / 19.2 dBm  
 UE Status: Connection established (observed by operator)

EUT Description: Deimos + AC-Charger + Cradle + External Antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 192  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Fri 19/Dec/2008 12:09:450

Conducted Spurious Emissions V7.1.5



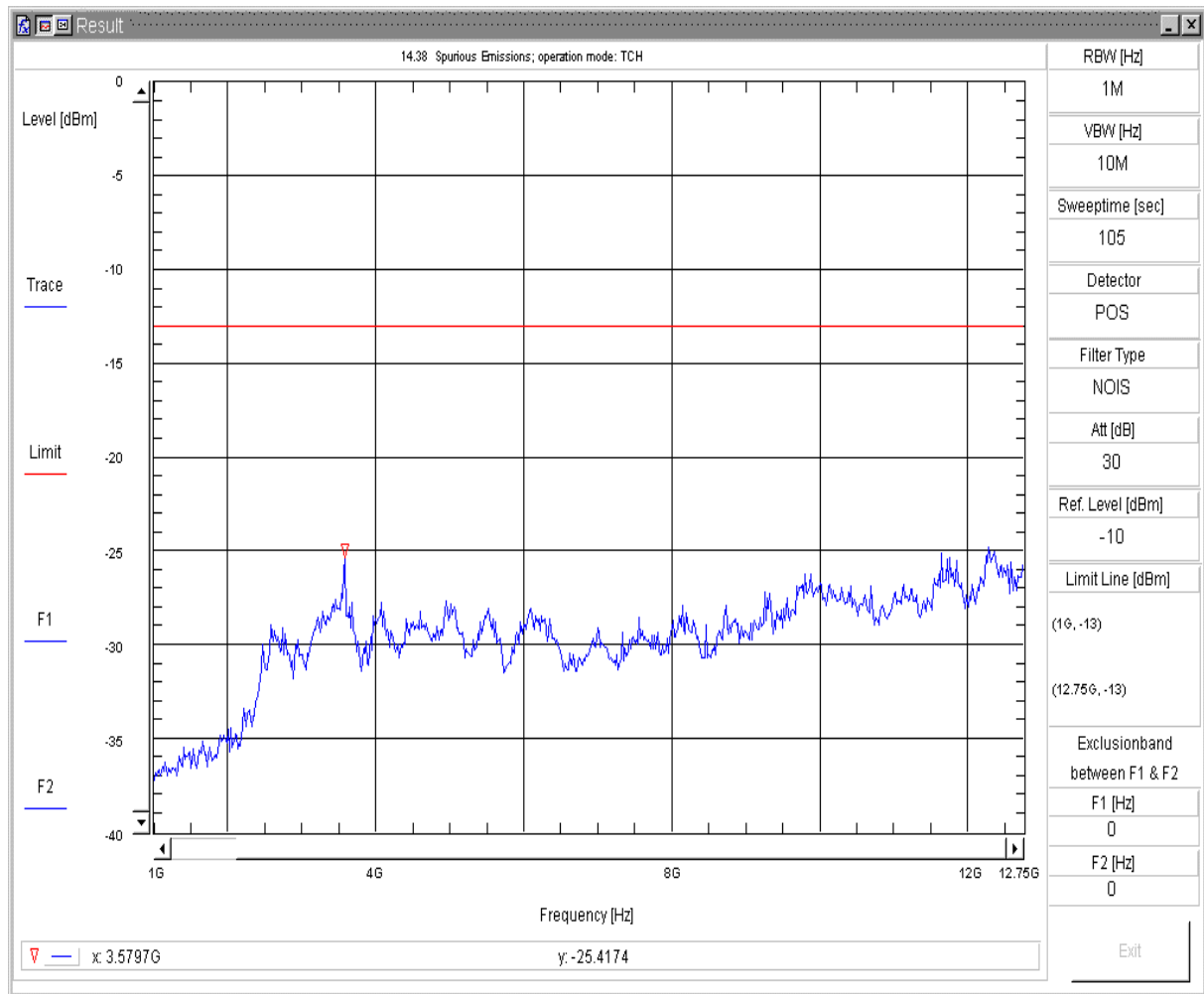
### 14.37 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_22\_850\TD\_TX  
 Sweepnr: Sweep2  
 EUT OP Mode: FCC\_Part\_22\_850 TCH  
 UE Power: 19.2 dBm / 19.2 dBm  
 UE Status: Connection established (observed by operator)

EUT Description: Deimos + AC-Charger + Cradle + External Antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 251  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Fri 19/Dec/2008 12:08:010

Conducted Spurious Emissions V7.1.5



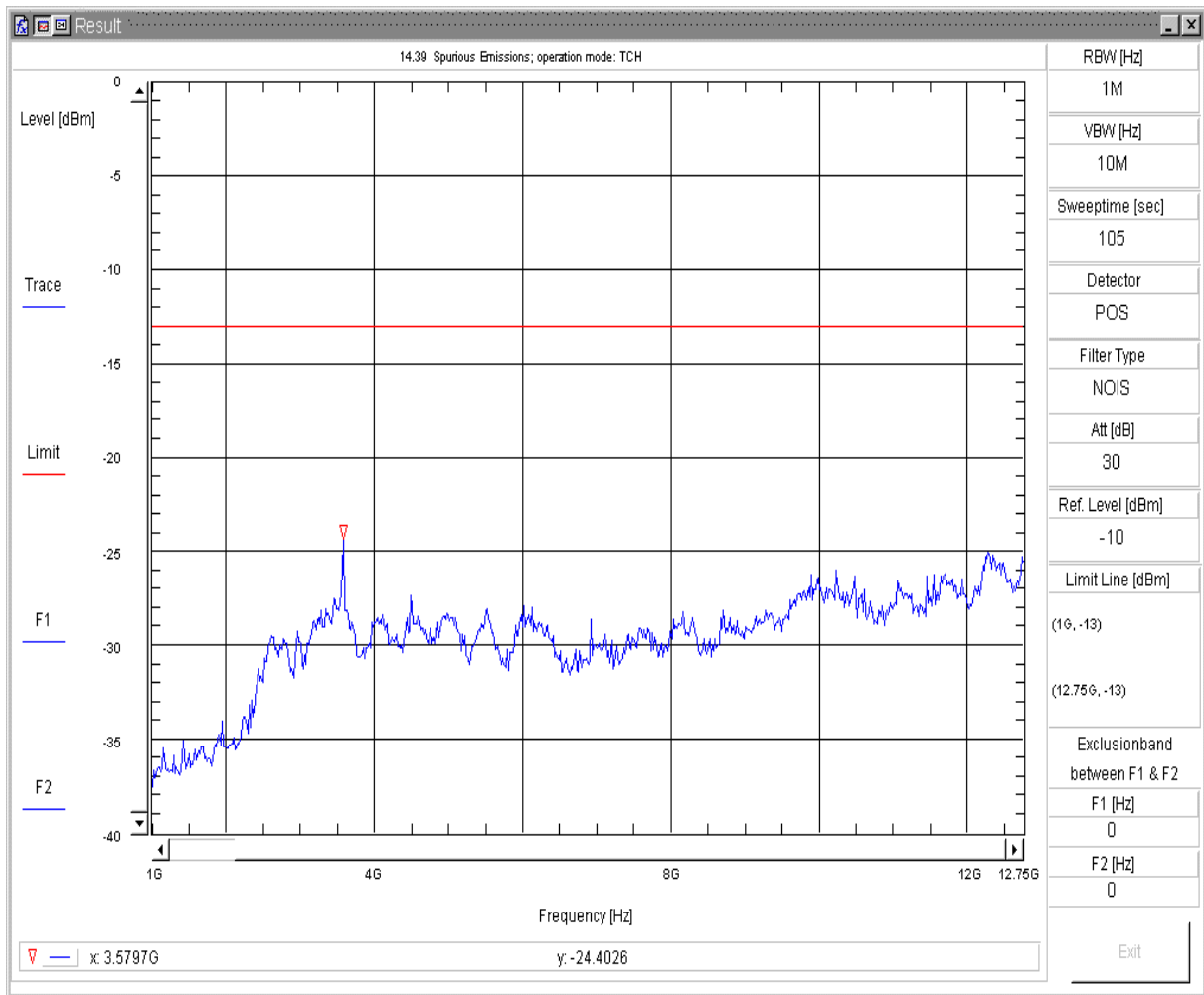
#### 14.38 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_22\_850\TD\_TX  
 Sweepnr: Sweep3  
 EUT OP Mode: FCC\_Part\_22\_850 TCH  
 UE Power: 22.4 dBm / 22.4 dBm  
 UE Status: Connection established (observed by operator)

EUT Description: Deimos + AC-Charger + Cradle + External Antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 128  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Fri 19/Dec/2008 12:12:230

Conducted Spurious Emissions V7.1.5



#### 14.39 Conducted Spurious Emission

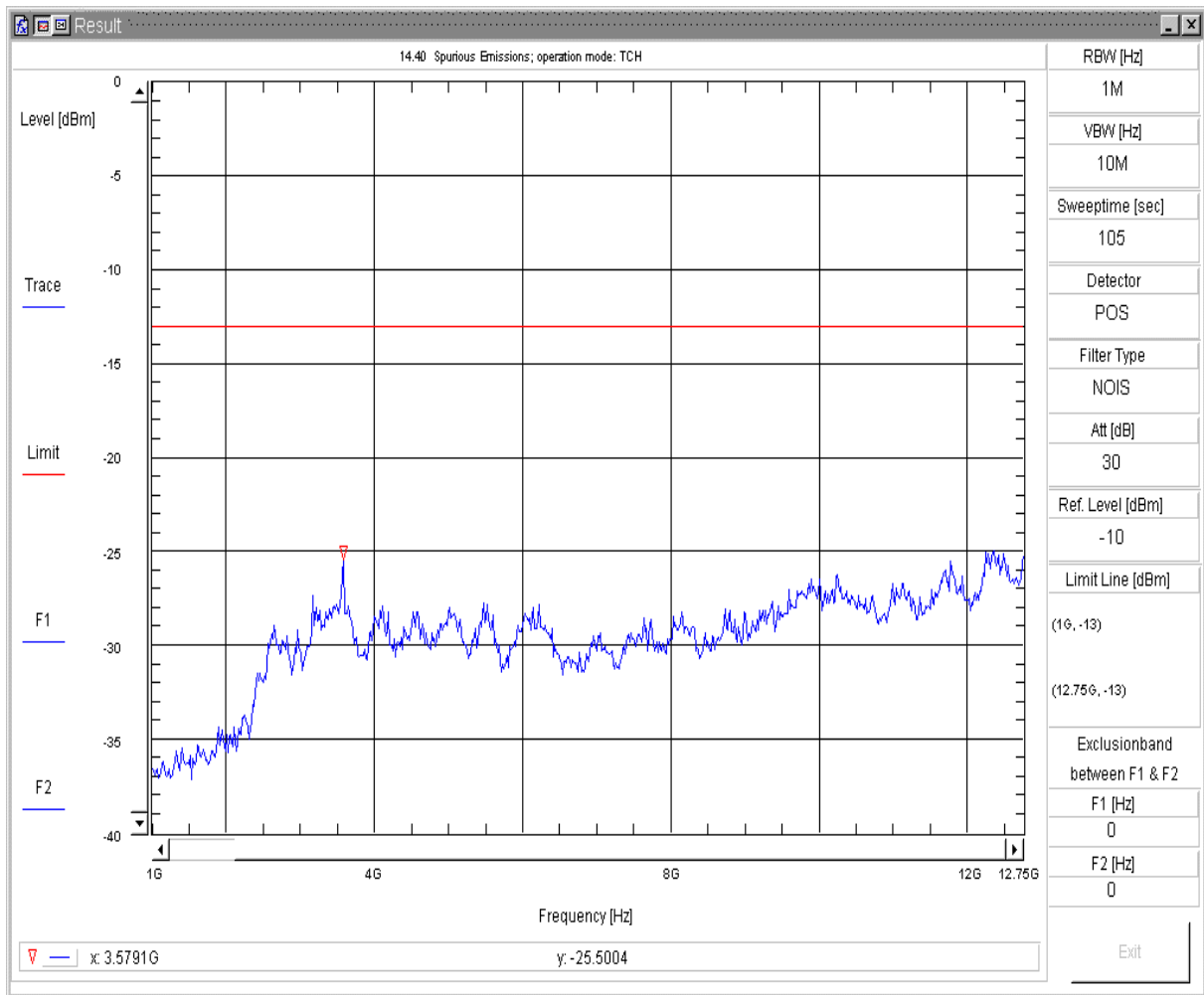
Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_22\_850\TD\_TX  
 Sweepnr: Sweep3  
 EUT OP Mode: FCC\_Part\_22\_850 TCH  
 UE Power: 22.4 dBm / 22.4 dBm  
 UE Status: Connection established (observed by operator)

EUT Description: Deimos + AC-Charger + Cradle + External Antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 24.3  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Fri 19/Dec/2008 12:15:400

Conducted Spurious Emissions V7.1.5





#### 14.40 Conducted Spurious Emission

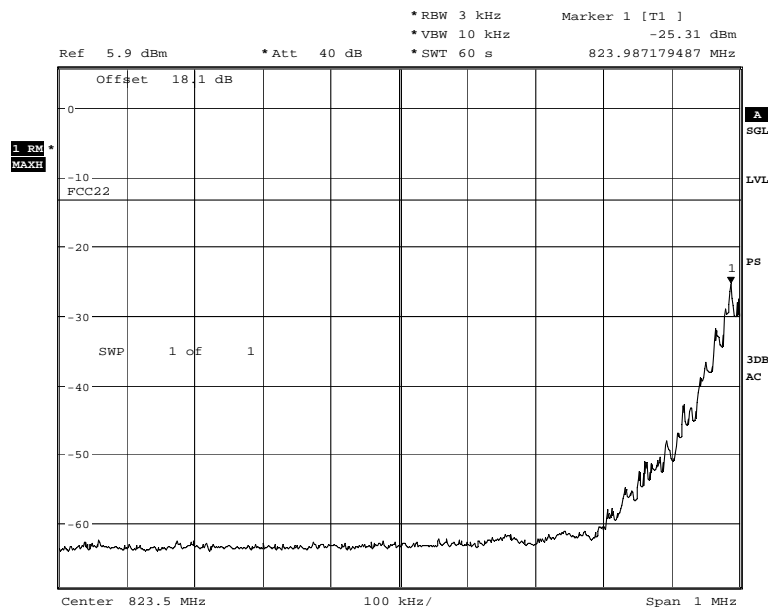
Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_22\_850\TD\_TX  
 Sweepnr: Sweep3  
 EUT OP Mode: FCC\_Part\_22\_850 TCH  
 UE Power: 19.3 dBm / 19.3 dBm  
 UE Status: Connection established (observed by operator)

EUT Description: Deimos + AC-Charger + Cradle + External Antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 251  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Fri 19/Dec/2008 12:21:060

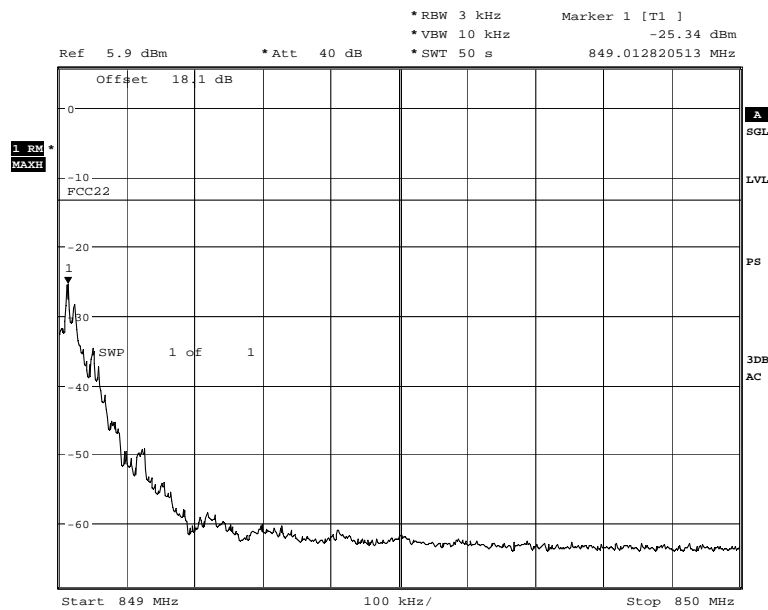
Conducted Spurious Emissions V7.1.5

Band-Edge compliance



Date: 19.DEC.2008 10:46:50

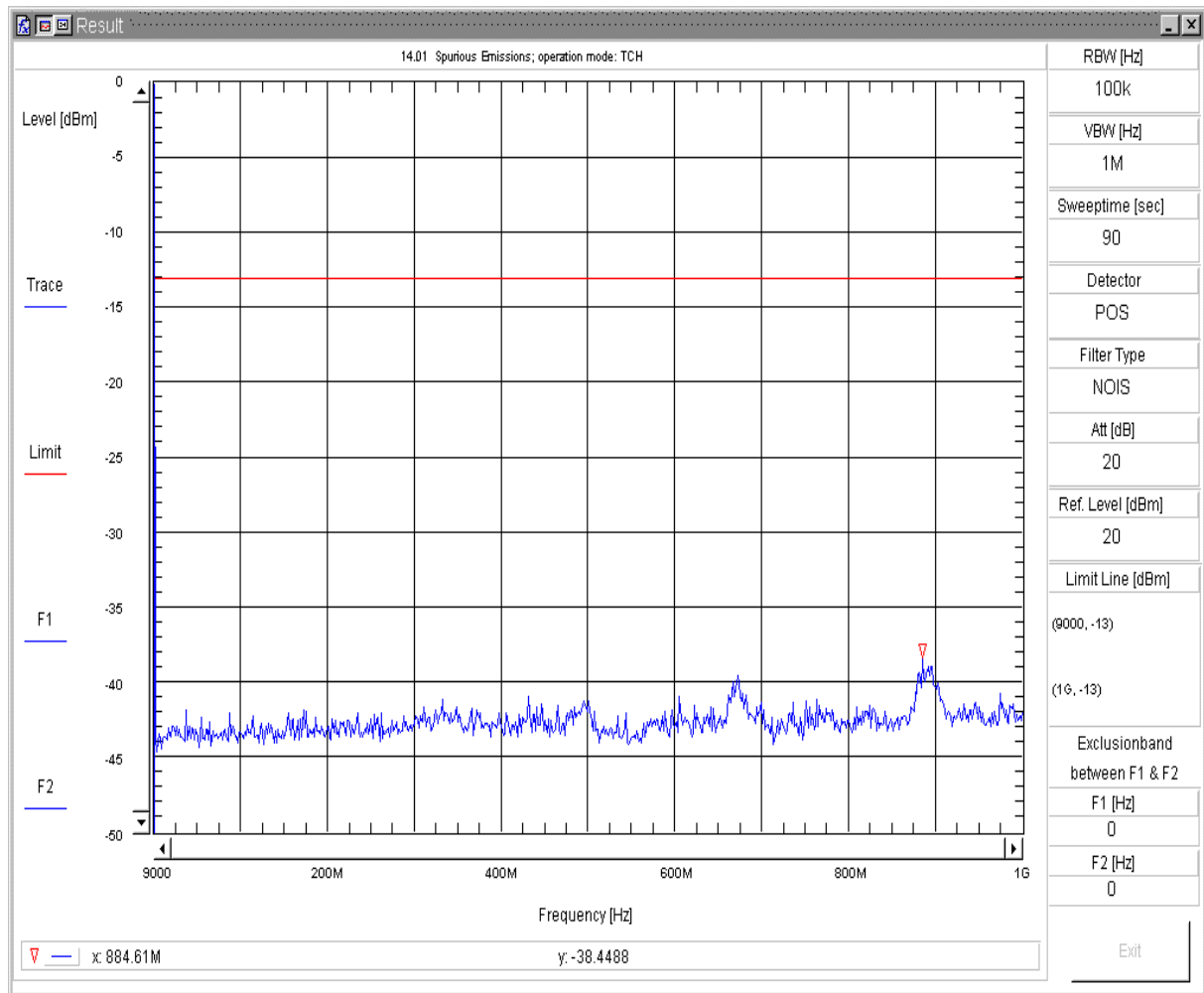
Diagram 14.41: Band Edge Channel 128 – 8PSK



Date: 19.DEC.2008 10:49:57

Diagram 14.24: Band Edge Channel 251 – 8PSK

### Diagrams - GSM 1900 mode

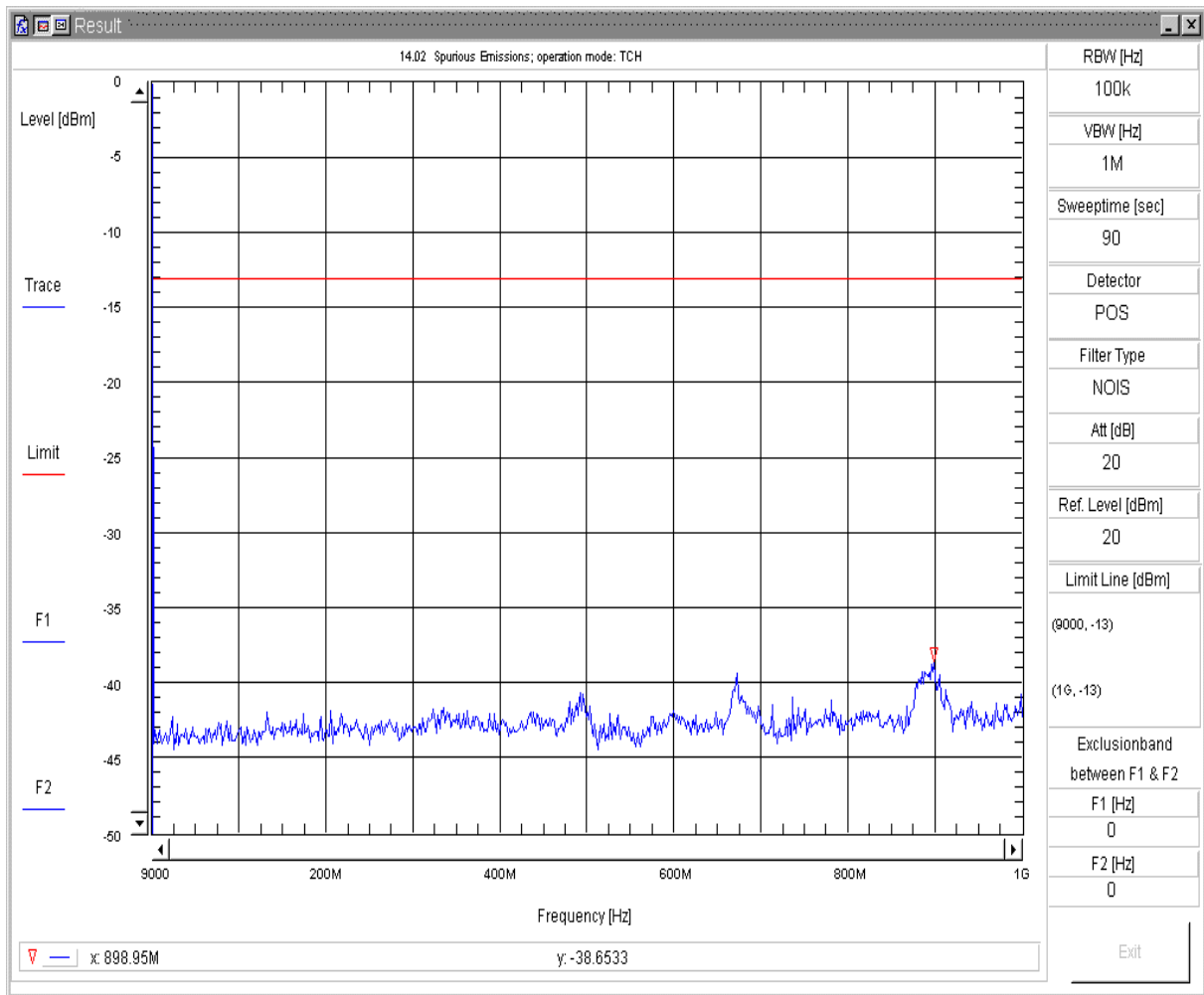


#### 14.01 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_24\_1900\TD\_TX  
 Sweepnr: Sweep1  
 EUT OP Mode: FCC\_Part\_24\_1900 TCH  
 UE Power: 25.1 dBm / 25.1 dBm  
 UE Status: Connection established (observed by operator)  
 UE Uplink Ch. 512  
 EUT Description: Deimos + Cradle  
 EUT Hardware: 5.0  
 EUT Software: 1.4.2793  
 EUT Config:  
 EUT S/N: DS548BV03T  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: -  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Tue 16/Dec/2008 11:37:260

Conducted Spurious Emissions V7.1.5

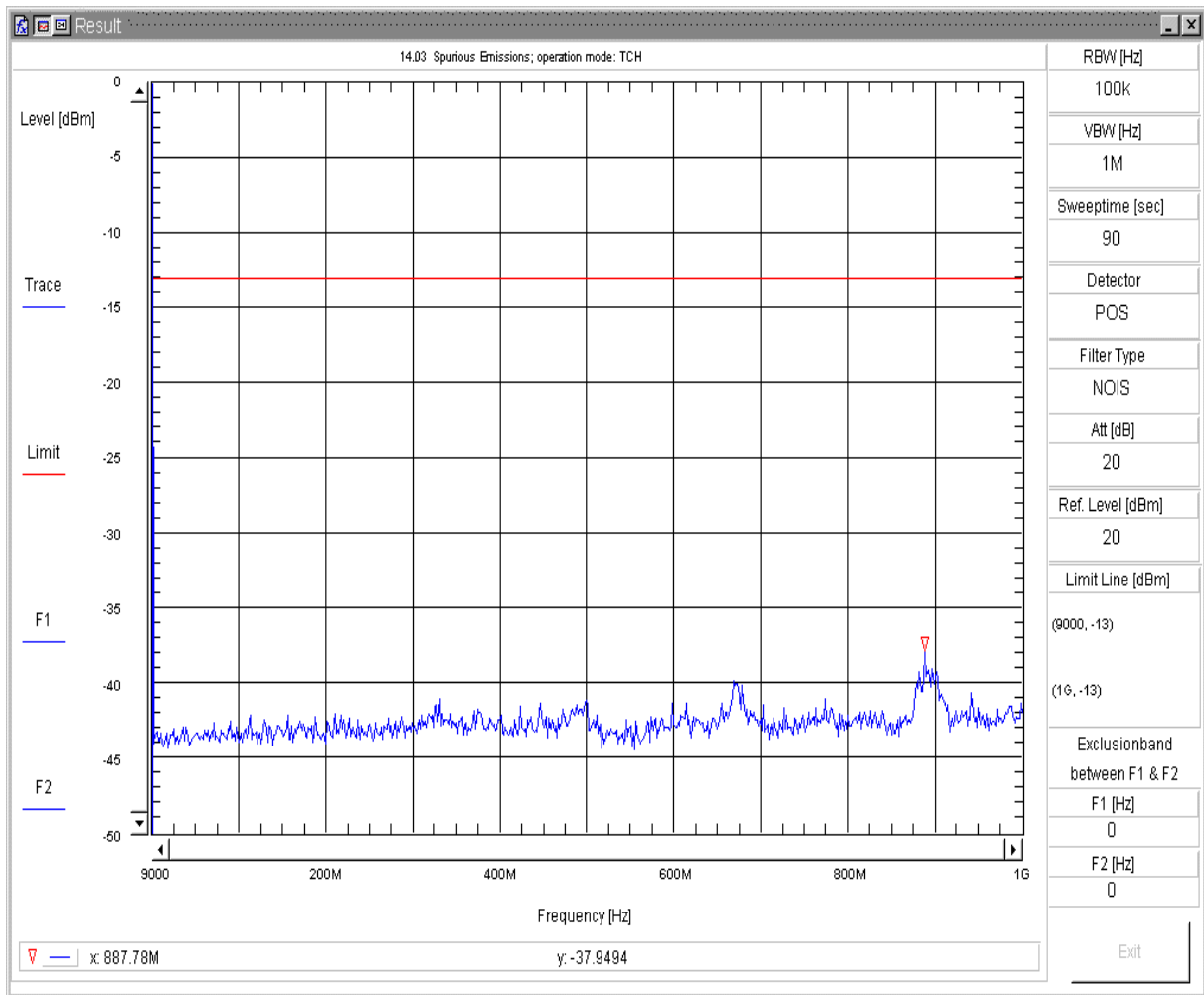


#### 14.02 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_24\_1900\TD\_TX  
 Sweepnr: Sweep1  
 EUT OP Mode: FCC\_Part\_24\_1900 TCH  
 UE Power: 29.1 dBm / 29.1 dBm  
 UE Status: Connection established (observed by operator)  
 EUT Description: Deimos + Cradle  
 EUT Hardware: 5.0  
 EUT Software: 1.4.2793  
 EUT Config:  
 EUT S/N: DS548BV03T  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: -  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Tue 16/Dec/2008 11:42:310

Conducted Spurious Emissions V7.1.5

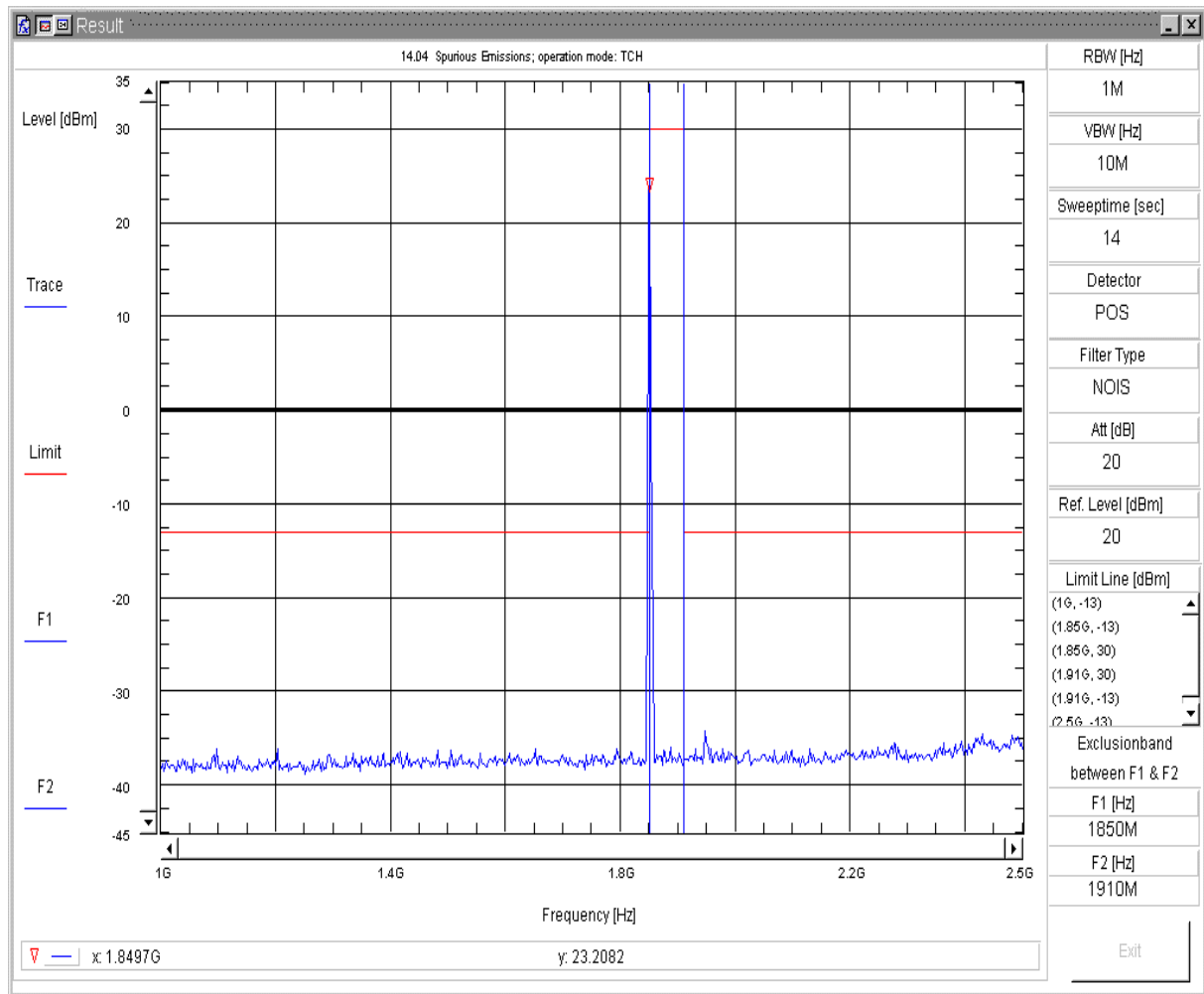


#### 14.03 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_24\_1900\TD\_TX  
 Sweepnr: Sweep1  
 EUT OP Mode: FCC\_Part\_24\_1900 TCH  
 UE Power: 29.1 dBm / 29.1 dBm  
 UE Status: Connection established (observed by operator)  
 EUT Description: Deimos + Cradle  
 EUT Hardware: 5.0  
 EUT Software: 1.4.2793  
 EUT Config:  
 EUT S/N: DS548BV03T  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: -  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Tue 16/Dec/2008 11:52:020

Conducted Spurious Emissions V7.1.5

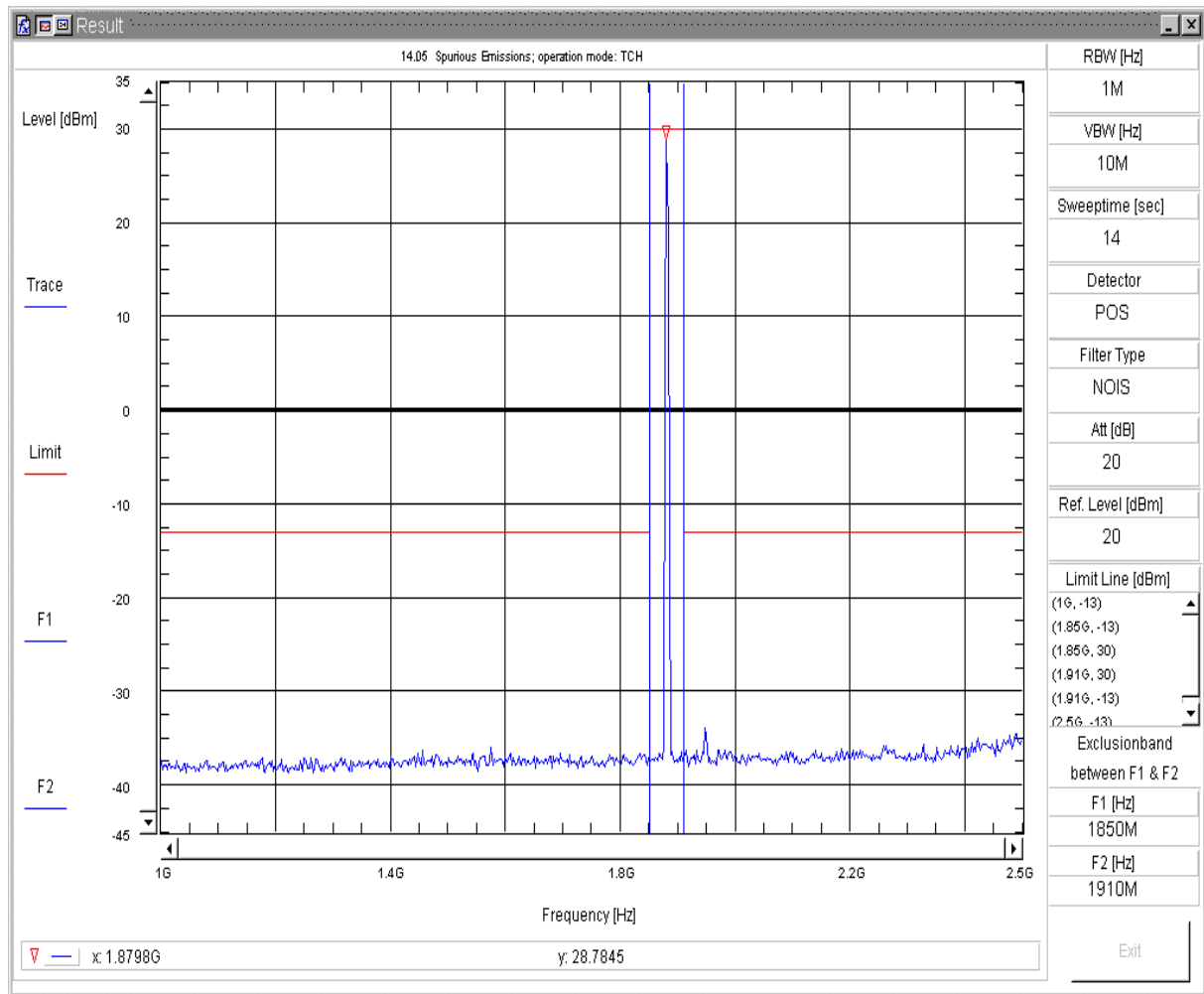


#### 14.04 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_24\_1900\TD\_TX  
 Sweepnr: Sweep2  
 EUT OP Mode: FCC\_Part\_24\_1900 TCH  
 UE Power: 30.4 dBm / 30.4 dBm  
 UE Status: Connection established (observed by operator)  
 EUT Description: Deimos + Cradle  
 EUT Hardware: 5.0  
 EUT Software: 1.4.2793  
 EUT Config:  
 EUT S/N: DS548BV03T  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: -  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Tue 16/Dec/2008 12:03:150

Conducted Spurious Emissions V7.1.5

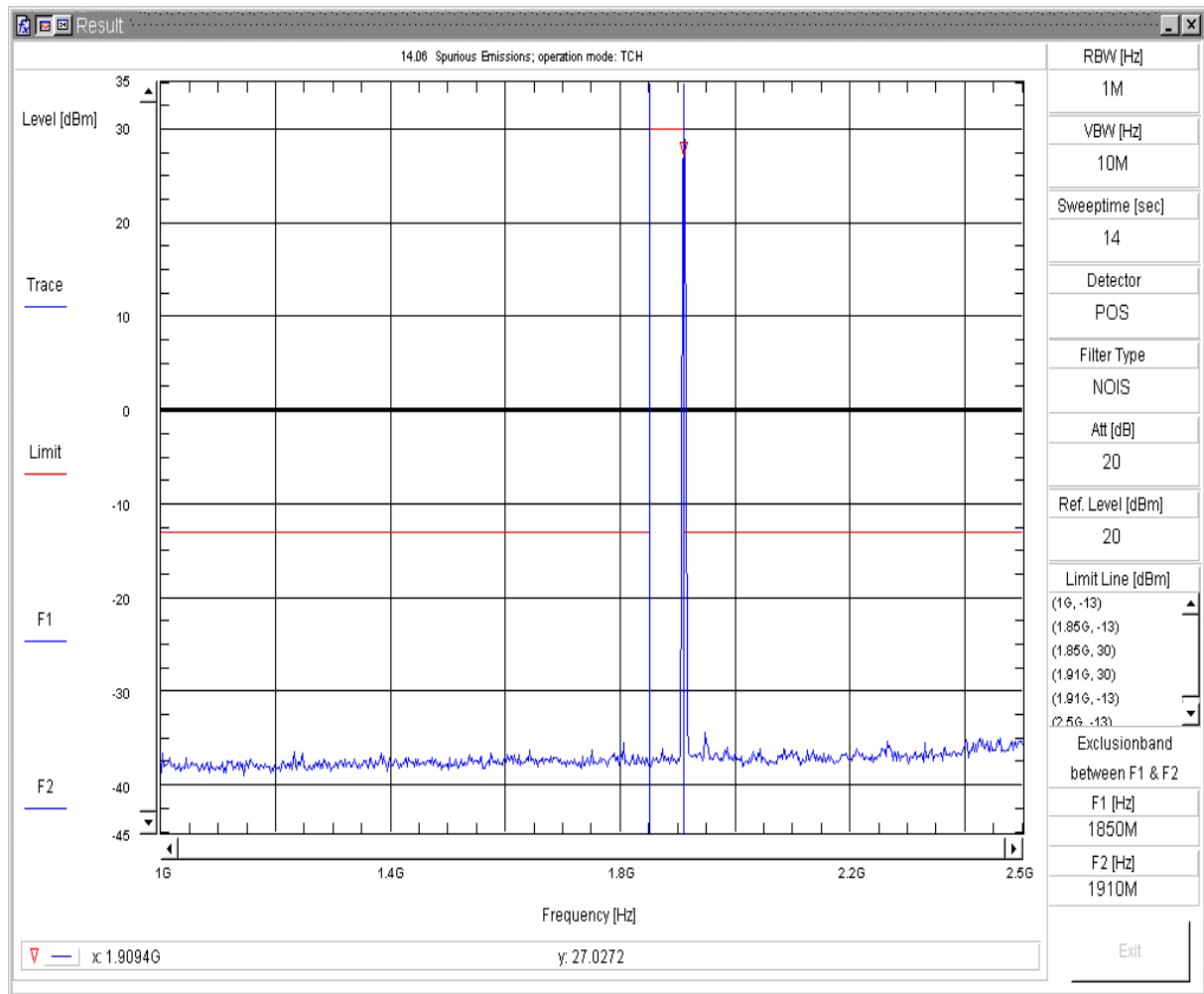


#### 14.05 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_24\_1900\TD\_TX  
 Sweepnr: Sweep2  
 EUT OP Mode: FCC\_Part\_24\_1900 TCH  
 UE Power: 33.0 dBm / 33.0 dBm  
 UE Status: Connection established (observed by operator)  
 EUT Description: Deimos + Cradle  
 EUT Hardware: 5.0  
 EUT Software: 1.4.2793  
 EUT Config:  
 EUT S/N: DS548BV03T  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: -  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Tue 16/Dec/2008 12:01:410

Conducted Spurious Emissions V7.1.5



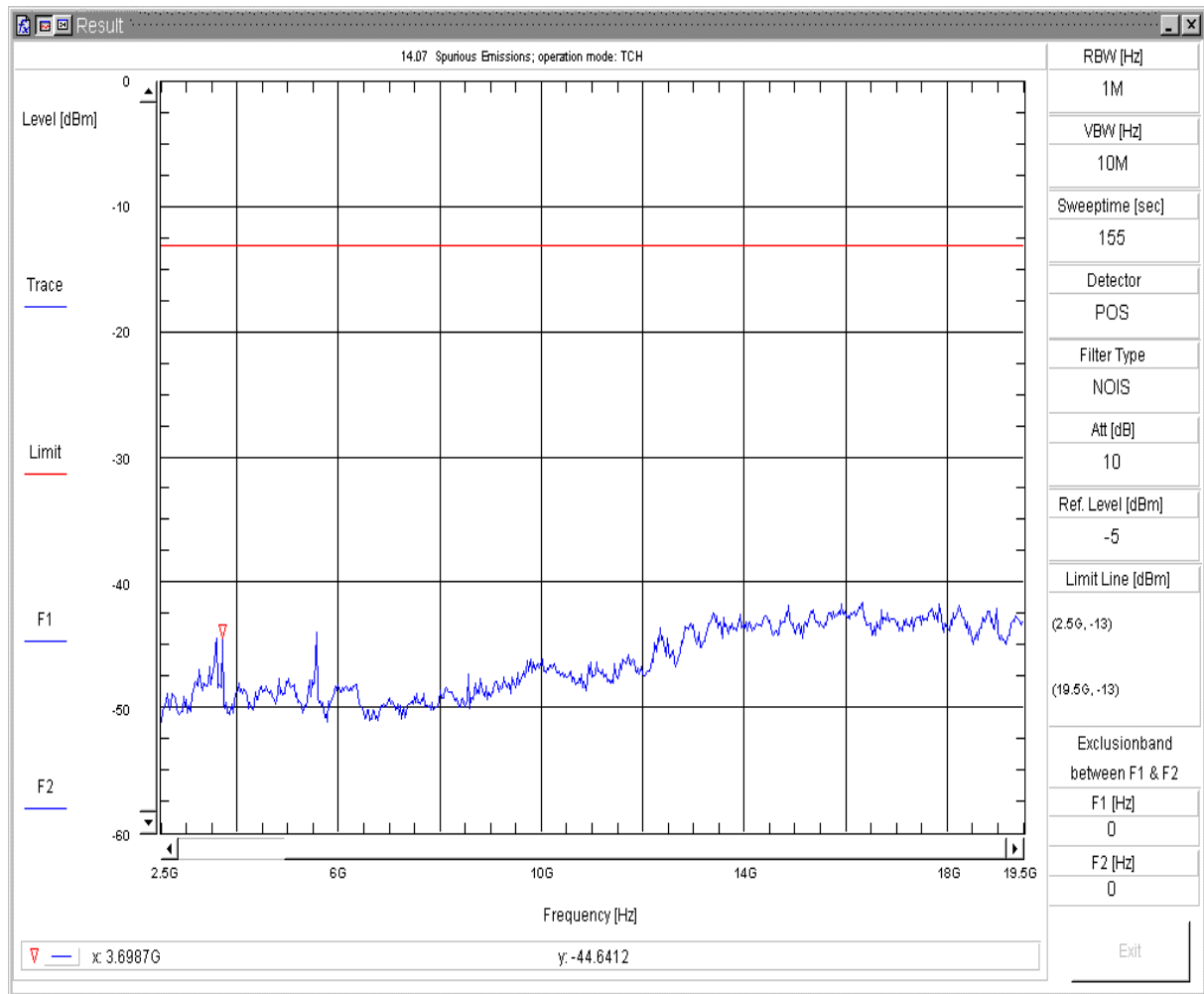
#### 14.06 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_24\_1900\TD\_TX  
 Sweepnr: Sweep2  
 EUT OP Mode: FCC\_Part\_24\_1900 TCH  
 UE Power: 33.3 dBm / 33.3 dBm  
 UE Status: Connection established (observed by operator)  
 UE Uplink Freq: 810  
 EUT Description: Deimos + Cradle  
 EUT Hardware: 5.0  
 EUT Software: 1.4.2793  
 EUT Config:  
 EUT S/N: DS548BV03T  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: -  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Tue 16/Dec/2008 11:59:200

Conducted Spurious Emissions V7.1.5



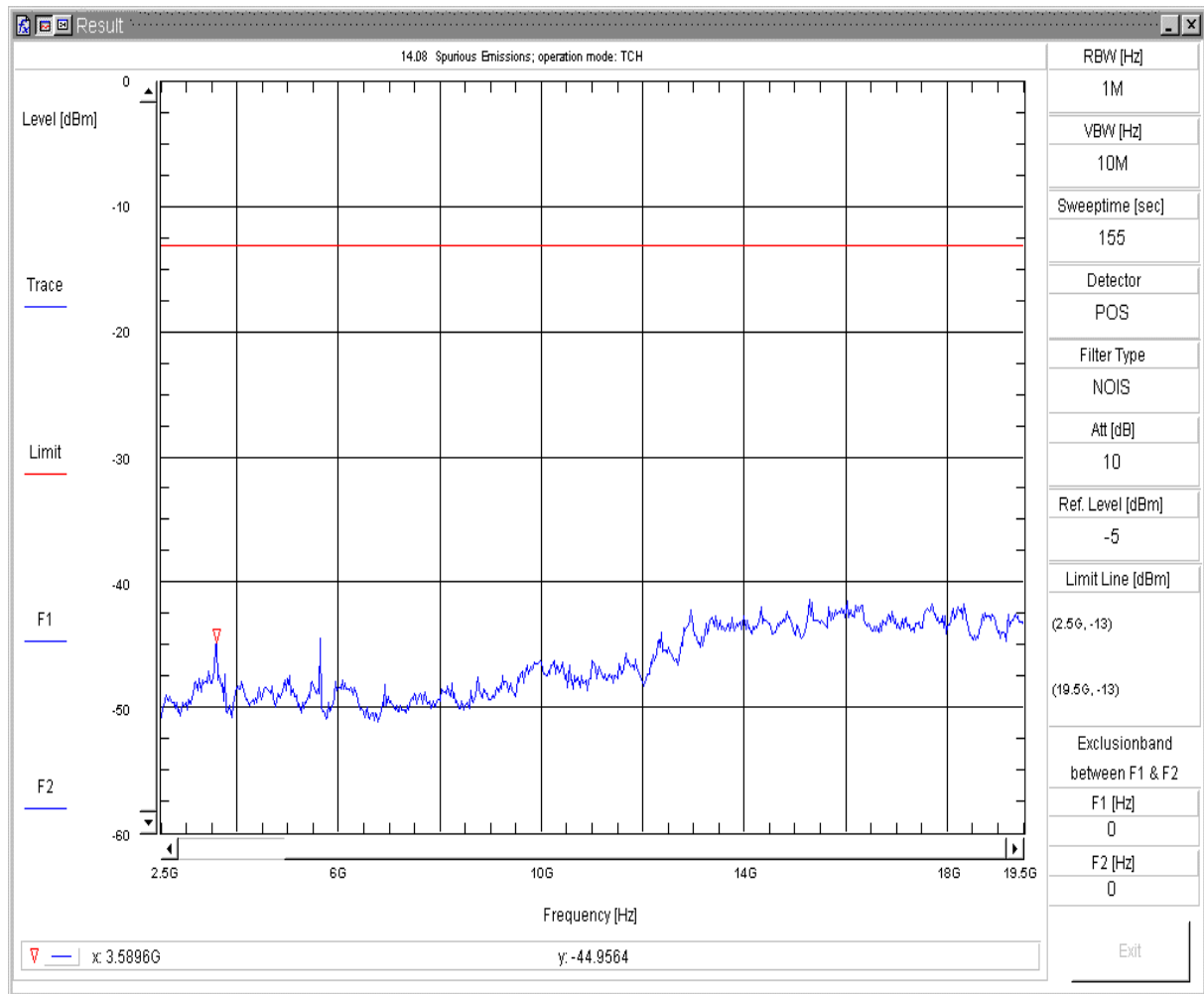


#### 14.07 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_24\_1900\TD\_TX  
 Sweepnr: Sweep3  
 EUT OP Mode: FCC\_Part\_24\_1900 TCH  
 UE Power: 34.1 dBm / 34.1 dBm  
 UE Status: Connection established (observed by operator)  
 UE Uplink Freq: 512  
 EUT Description: Deimos + Cradle  
 EUT Hardware: 5.0  
 EUT Software: 1.4.2793  
 EUT Config:  
 EUT S/N: DS548BV03T  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: -  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Tue 16/Dec/2008 12:05:000

Conducted Spurious Emissions V7.1.5

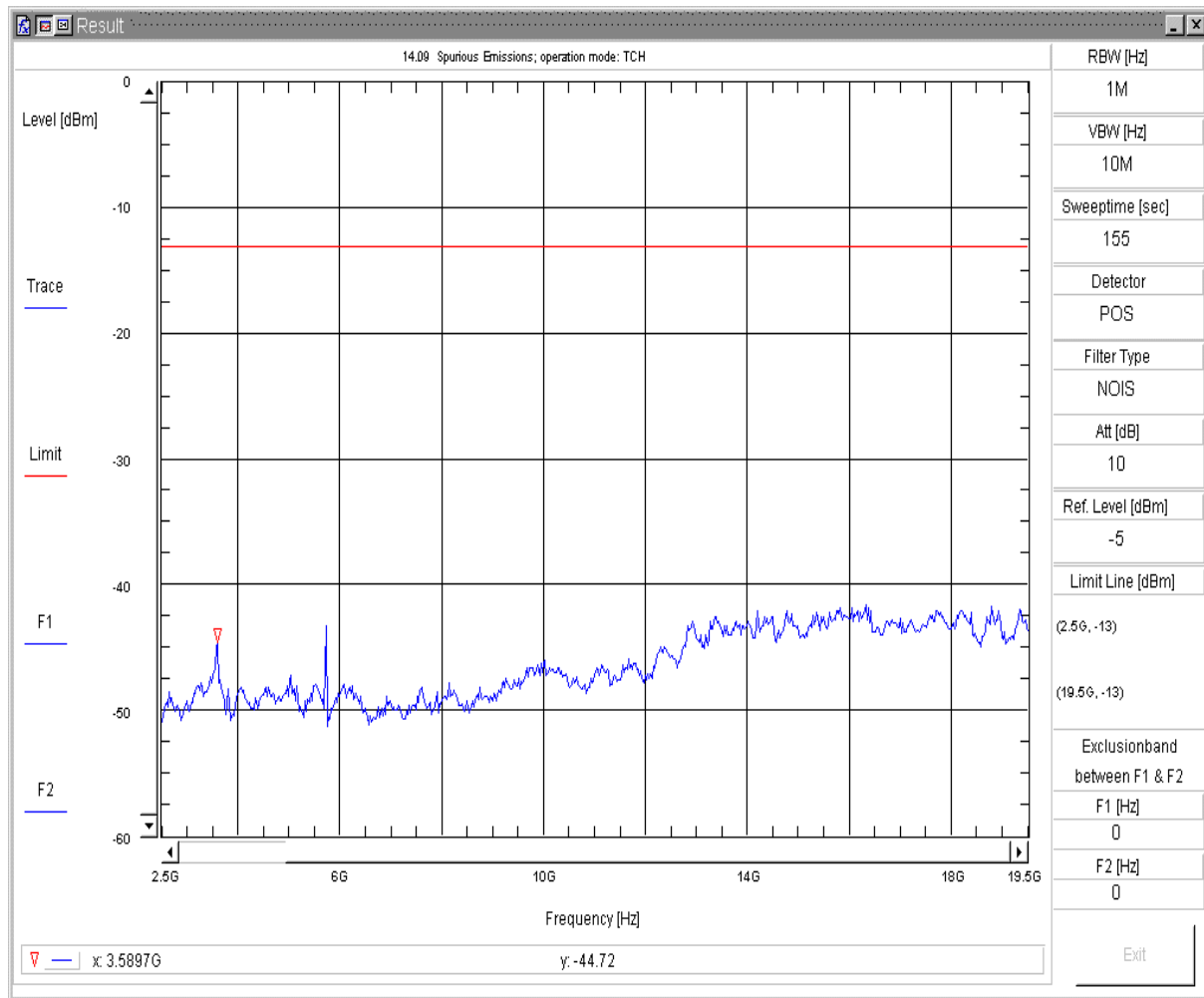


#### 14.08 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_24\_1900\TD\_TX  
 Sweepnr: Sweep3  
 EUT OP Mode: FCC\_Part\_24\_1900 TCH  
 UE Power: 23.9 dBm / 23.9 dBm  
 UE Status: Connection established (observed by operator)  
 UE Uplink Freq: 661  
 EUT Description: Deimos + Cradle  
 EUT Hardware: 5.0  
 EUT Software: 1.4.2793  
 EUT Config:  
 EUT S/N: DS548BV03T  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: -  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Tue 16/Dec/2008 12:09:060

Conducted Spurious Emissions V7.1.5



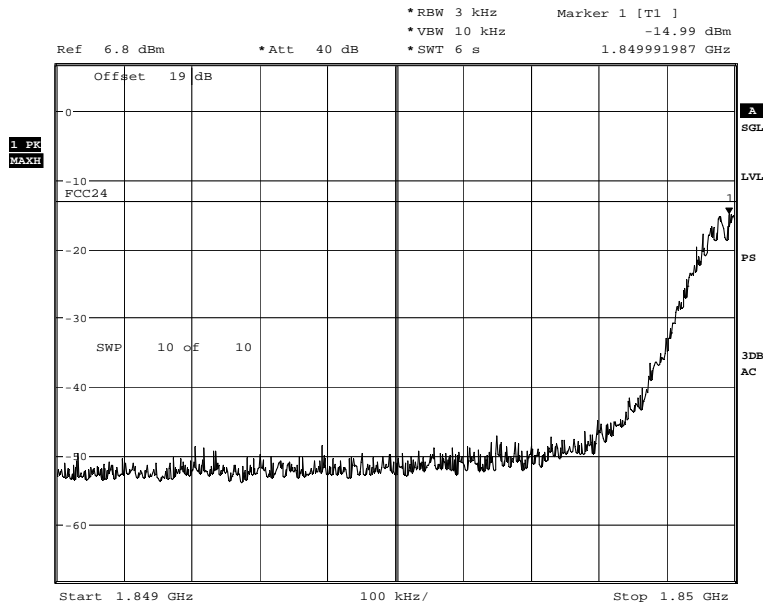
#### 14.09 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_24\_1900\TD\_TX  
 Sweepnr: Sweep3  
 EUT OP Mode: FCC\_Part\_24\_1900 TCH  
 UE Power: 30.4 dBm / 30.4 dBm  
 UE Status: Connection established (observed by operator)  
 UE Uplink Freq: 810  
 EUT Description: Deimos + Cradle  
 EUT Hardware: 5.0  
 EUT Software: 1.4.2793  
 EUT Config:  
 EUT S/N: DS548BV03T  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: -  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Tue 16/Dec/2008 12:14:070

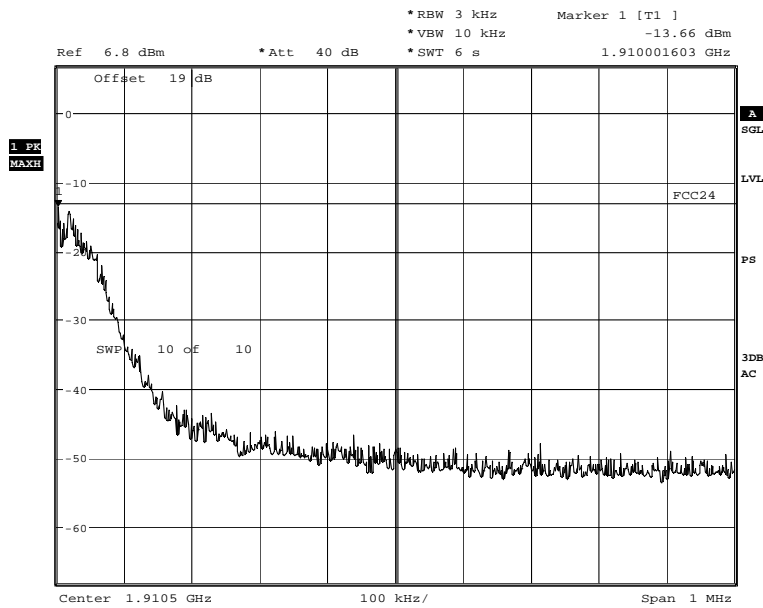
Conducted Spurious Emissions V7.1.5

Band-Edge compliance



Date: 16.DEC.2008 12:42:33

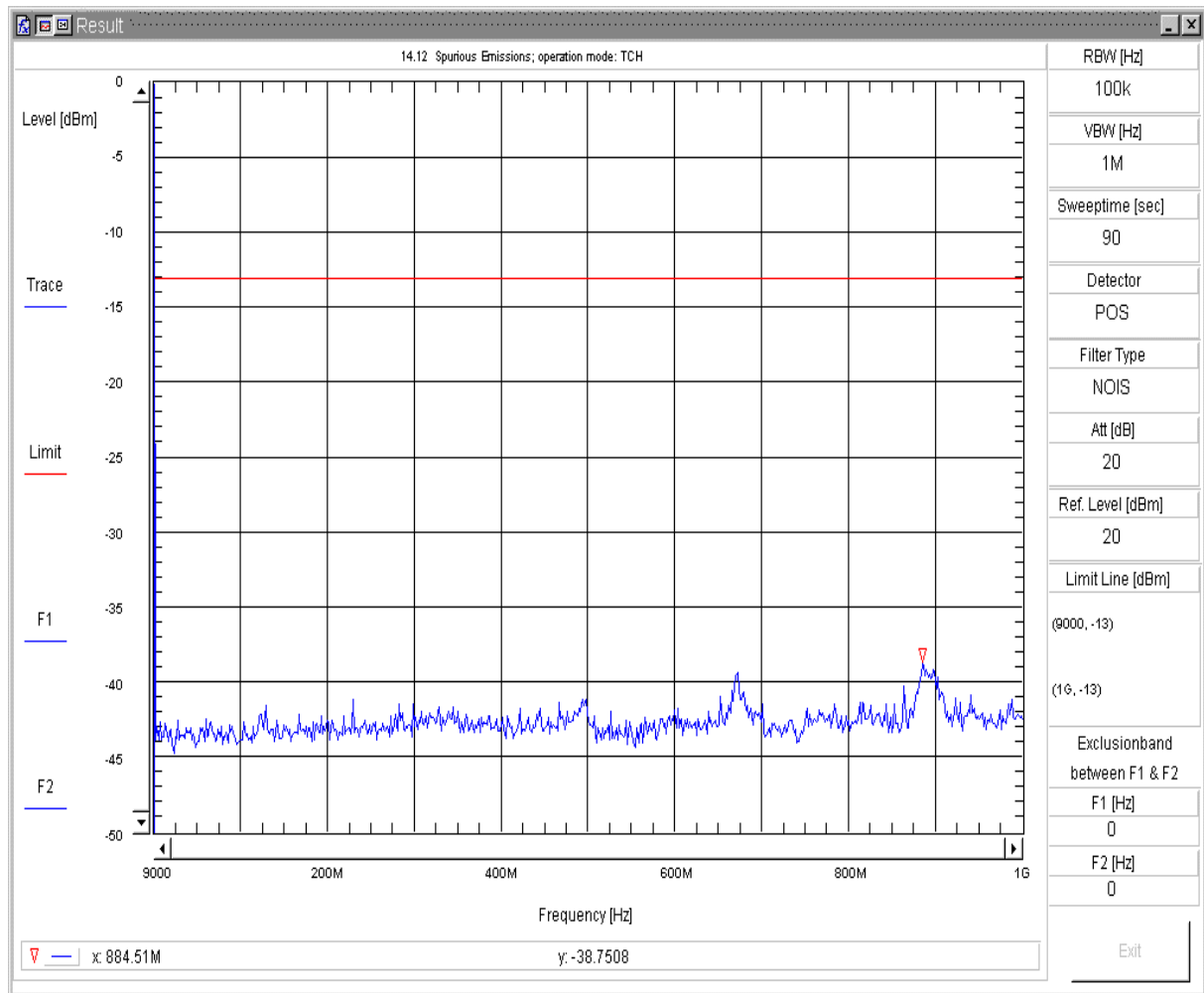
Diagram 14.10: Band Edge Channel 512 – GMSK



Date: 16.DEC.2008 12:40:10

Diagram 14.11: Band Edge Channel 810 – GMSK

## Diagrams – E-GPRS 1900 mode

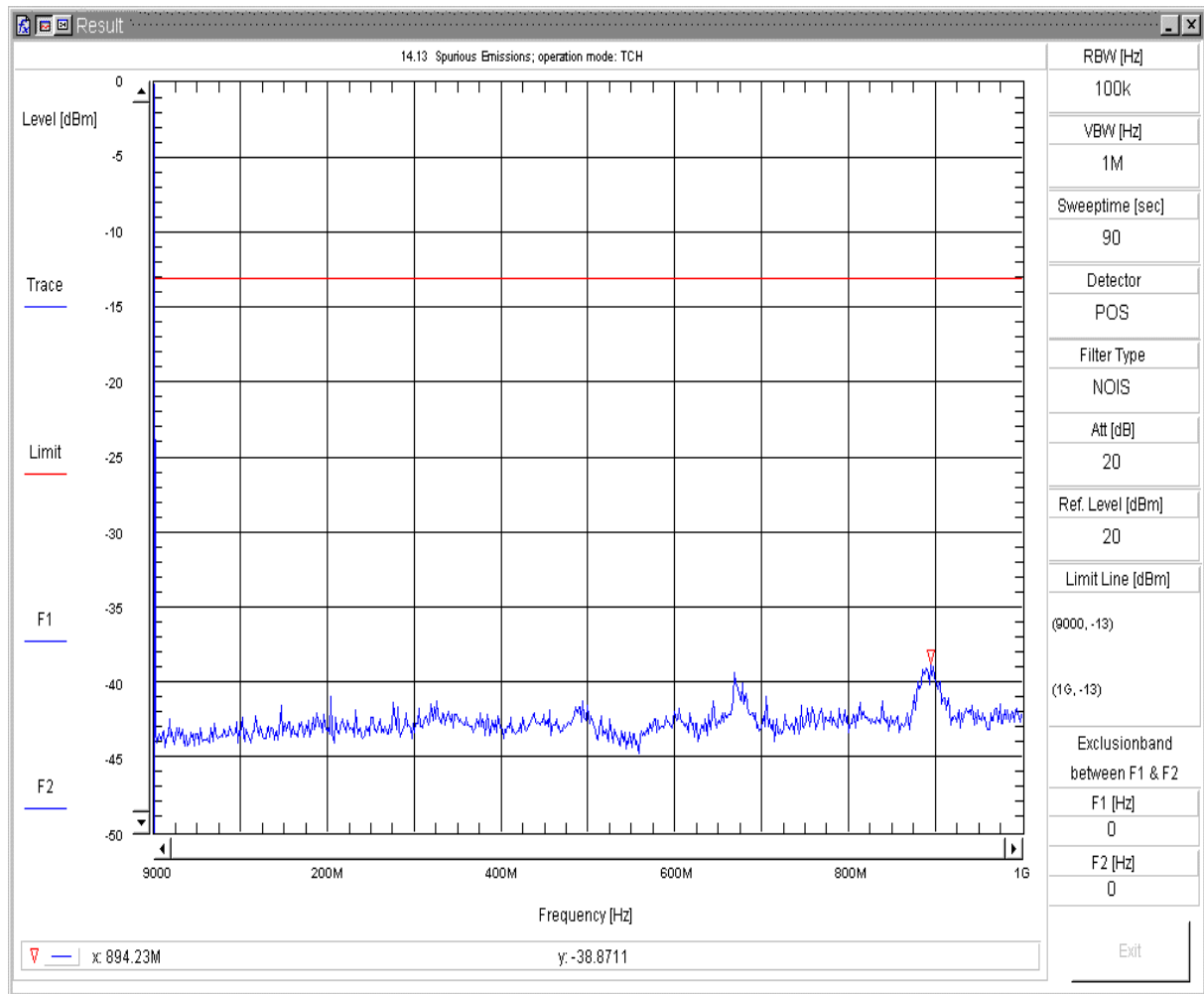


## 14.12 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_24\_1900\TD\_TX  
 Sweepnr: Sweep1  
 EUT OP Mode: FCC\_Part\_24\_1900 TCH  
 UE Power: 33.6 dBm / 33.6 dBm  
 UE Status: Connection established (observed by operator)  
 UE Uplink Ch: 810  
 EUT Description: Deimos + Cradle  
 EUT Hardware: 5.0  
 EUT Software: 1.4.2793  
 EUT Config:  
 EUT S/N: DS548BV03T  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: -  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Tue 16/Dec/2008 14:12:300

Conducted Spurious Emissions V7.1.5

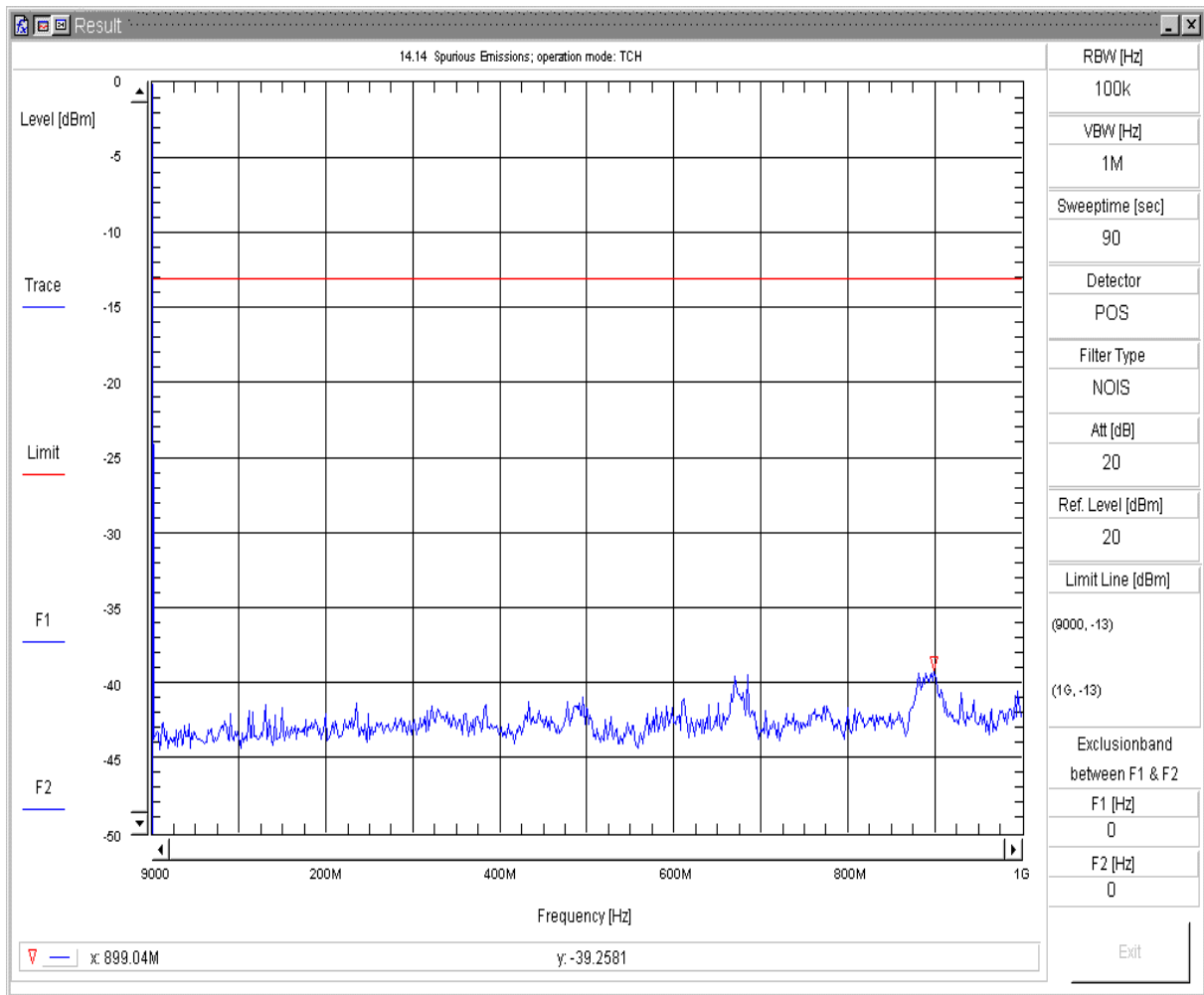


### 14.13 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_24\_1900\TD\_TX  
 Sweepnr: Sweep1  
 EUT OP Mode: FCC\_Part\_24\_1900 TCH  
 UE Power: 33.6 dBm / 33.6 dBm  
 UE Status: Connection established (observed by operator)  
 UE Uplink Ch: 661  
 EUT Description: Deimos + Cradle  
 EUT Hardware: 5.0  
 EUT Software: 1.4.2793  
 EUT Config:  
 EUT S/N: DS548BV03T  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: -  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Tue 16/Dec/2008 14:14:580

Conducted Spurious Emissions V7.1.5

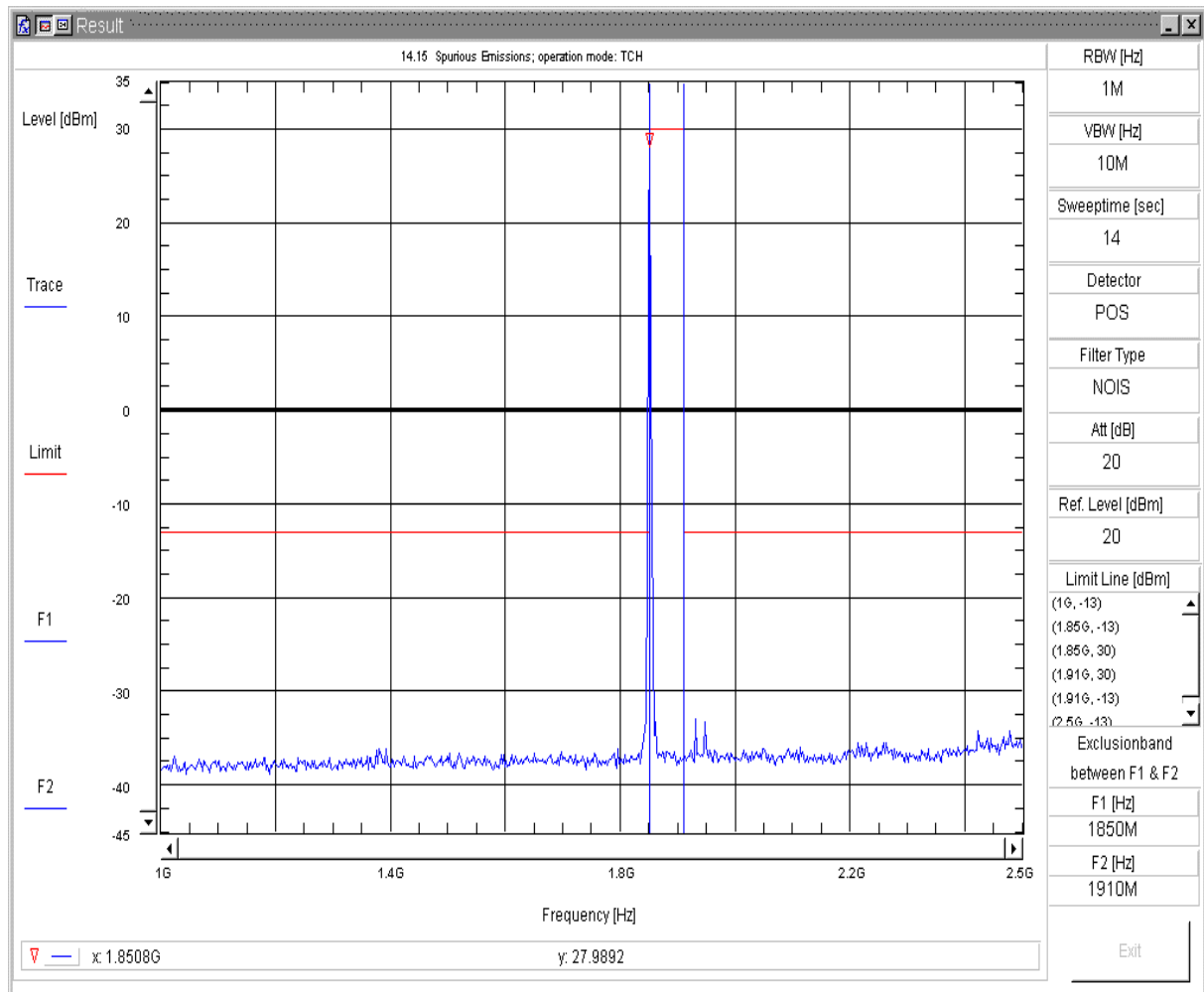


#### 14.14 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_24\_1900\TD\_TX  
 Sweepnr: Sweep1  
 EUT OP Mode: FCC\_Part\_24\_1900 TCH  
 UE Power: 30.8 dBm / 30.8 dBm  
 UE Status: Connection established (observed by operator)  
 UE Uplink Ch : 512  
 EUT Description: Deimos + Cradle  
 EUT Hardware: 5.0  
 EUT Software: 1.4.2793  
 EUT Config:  
 EUT S/N: DS548BV03T  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: -  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Tue 16/Dec/2008 14:17:500

Conducted Spurious Emissions V7.1.5



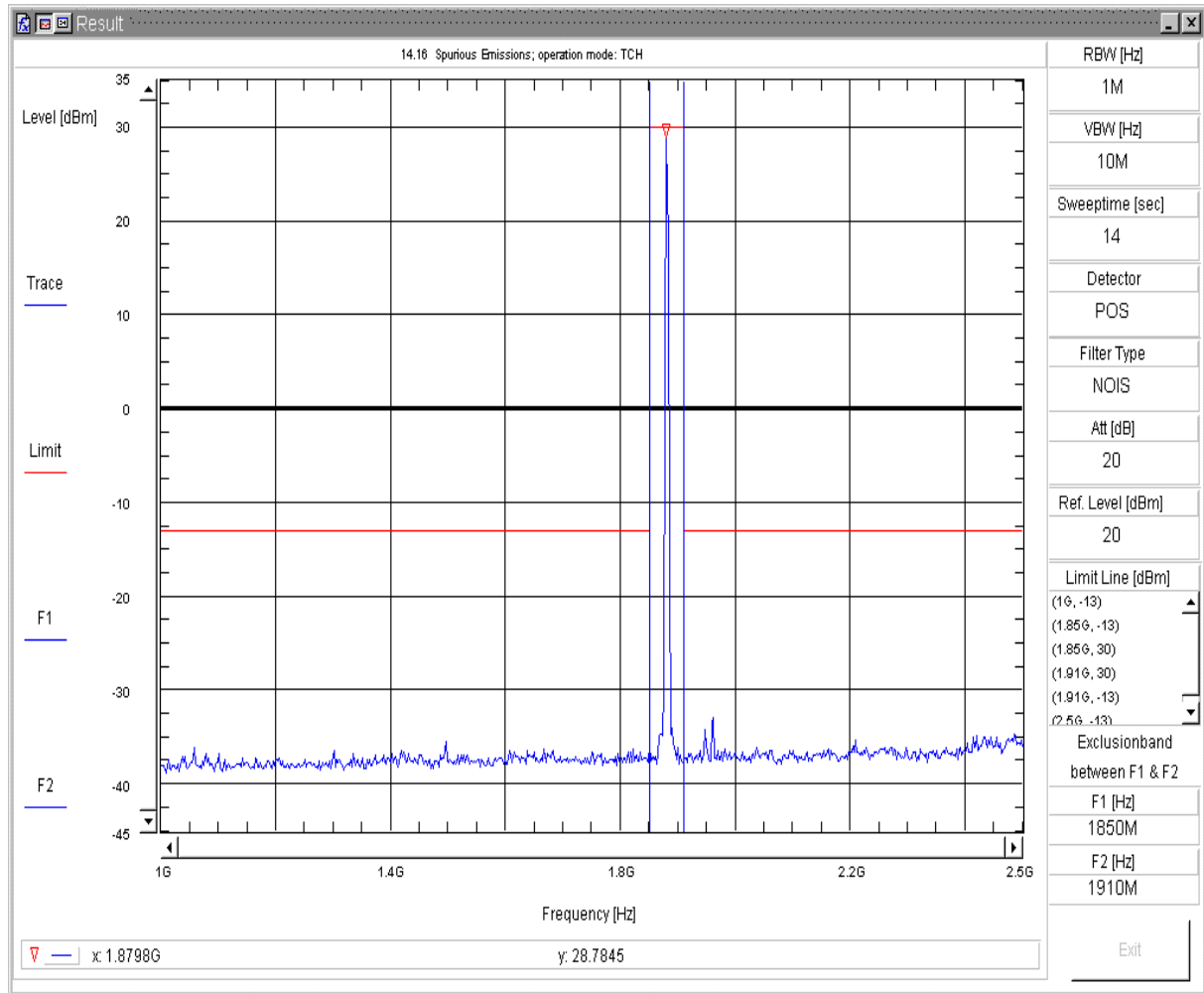
#### 14.15 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_24\_1900\TD\_TX  
 Sweepnr: Sweep2  
 EUT OP Mode: FCC\_Part\_24\_1900 TCH  
 UE Power: 24.6 dBm / 24.6 dBm  
 UE Status: Connection established (observed by operator)  
 UE Uplink Ch 512  
 EUT Description: Deimos + Cradle  
 EUT Hardware: 5.0  
 EUT Software: 1.4.2793  
 EUT Config:  
 EUT S/N: DS548BV03T  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: -  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Tue 16/Dec/2008 14:20:240

Conducted Spurious Emissions V7.1.5



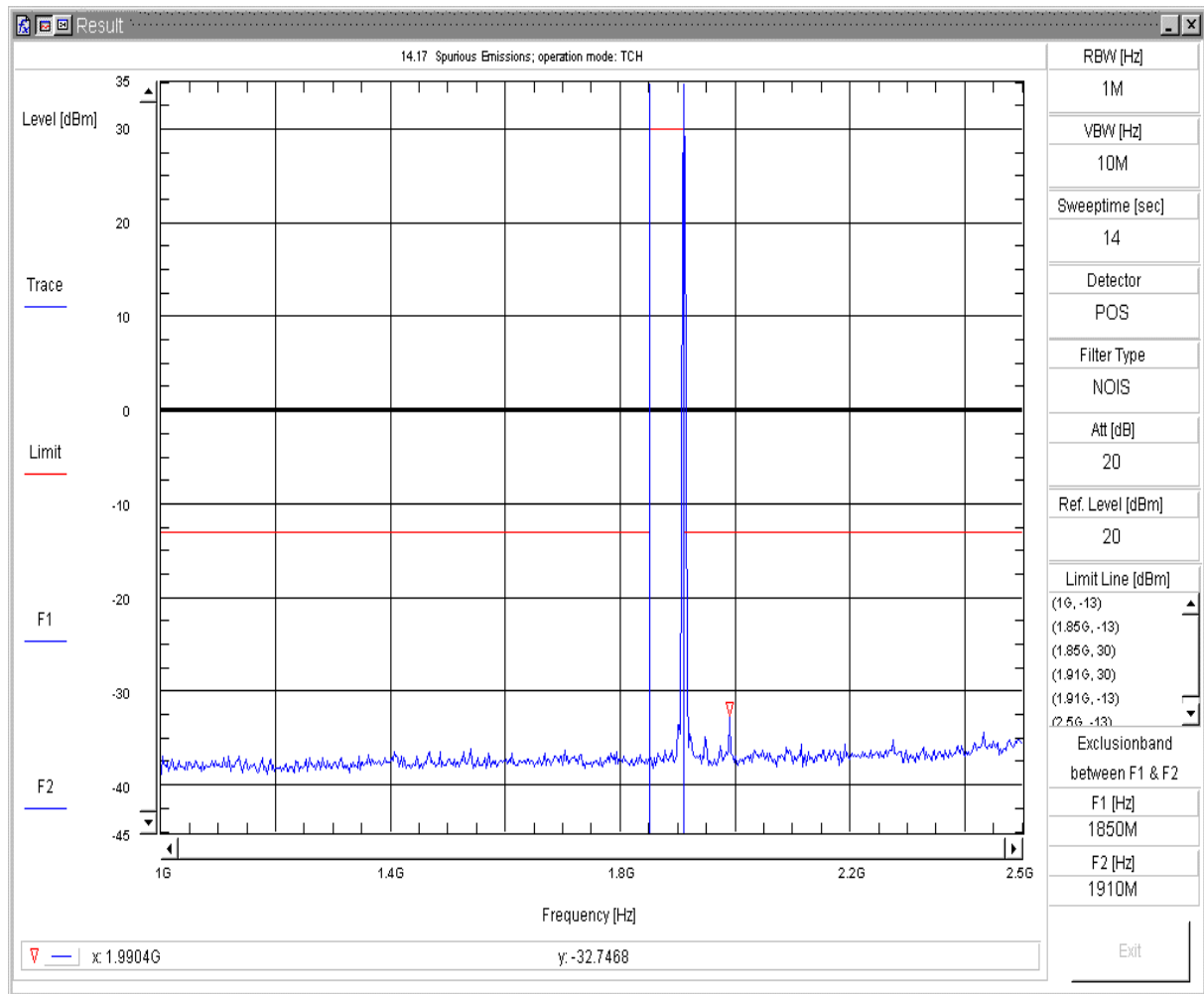


#### 14.16 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_24\_1900\TD\_TX  
 Sweepnr: Sweep2  
 EUT OP Mode: FCC\_Part\_24\_1900 TCH  
 UE Power: 24.6 dBm / 24.6 dBm  
 UE Status: Connection established (observed by operator)  
 UE Uplink Ch. 661  
 EUT Description: Deimos + Cradle  
 EUT Hardware: 5.0  
 EUT Software: 1.4.2793  
 EUT Config:  
 EUT S/N: DS548BV03T  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 661  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Tue 16/Dec/2008 14:21:460

Conducted Spurious Emissions V7.1.5

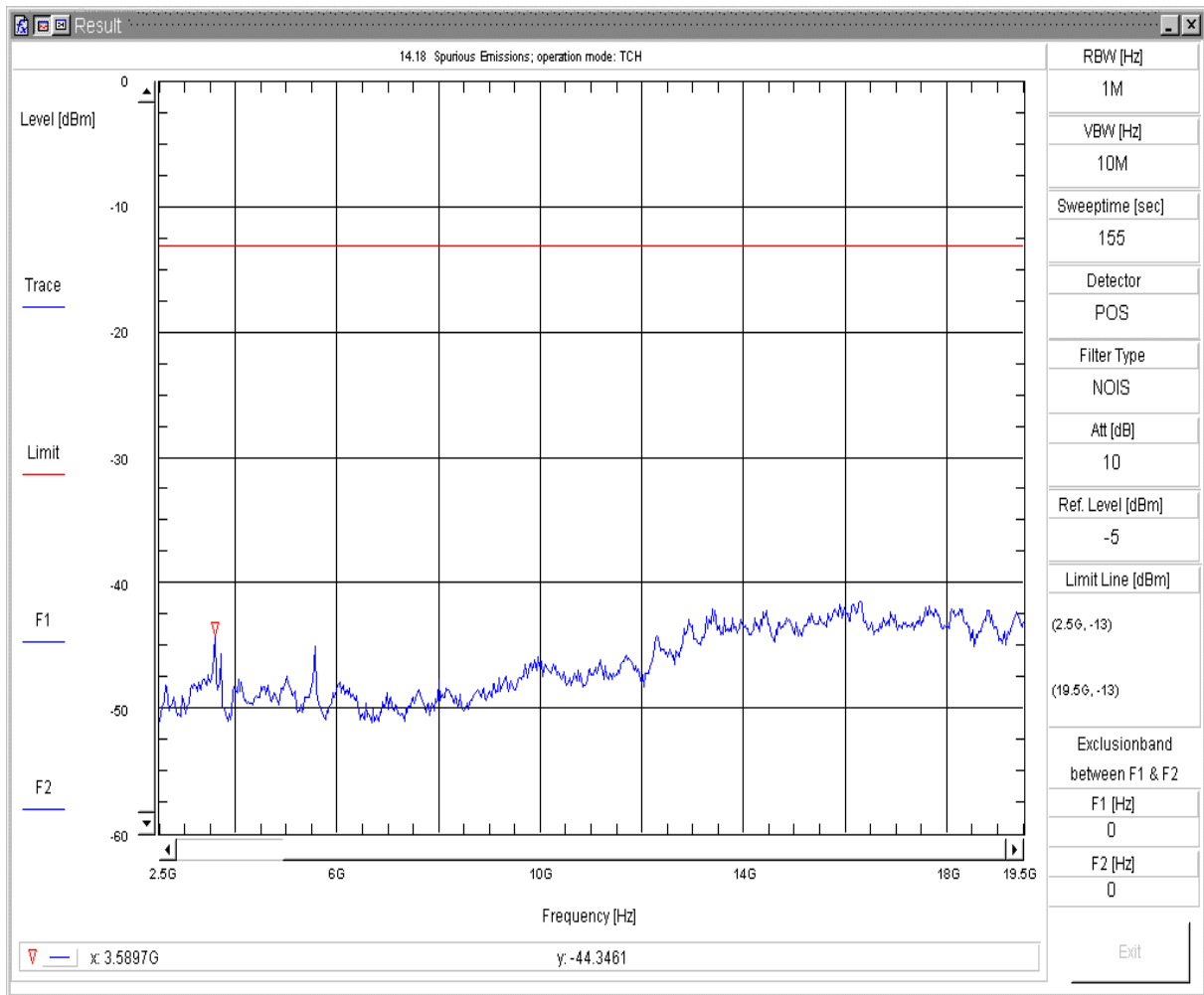


#### 14.17 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_24\_1900\TD\_TX  
 Sweepnr: Sweep2  
 EUT OP Mode: FCC\_Part\_24\_1900 TCH  
 UE Power: 30.8 dBm / 30.8 dBm  
 UE Status: Connection established (observed by operator)  
 UE Uplink Ch 810  
 EUT Description: Deimos + Cradle  
 EUT Hardware: 5.0  
 EUT Software: 1.4.2793  
 EUT Config:  
 EUT S/N: DS548BV03T  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 810  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Tue 16/Dec/2008 14:24:360

Conducted Spurious Emissions V7.1.5

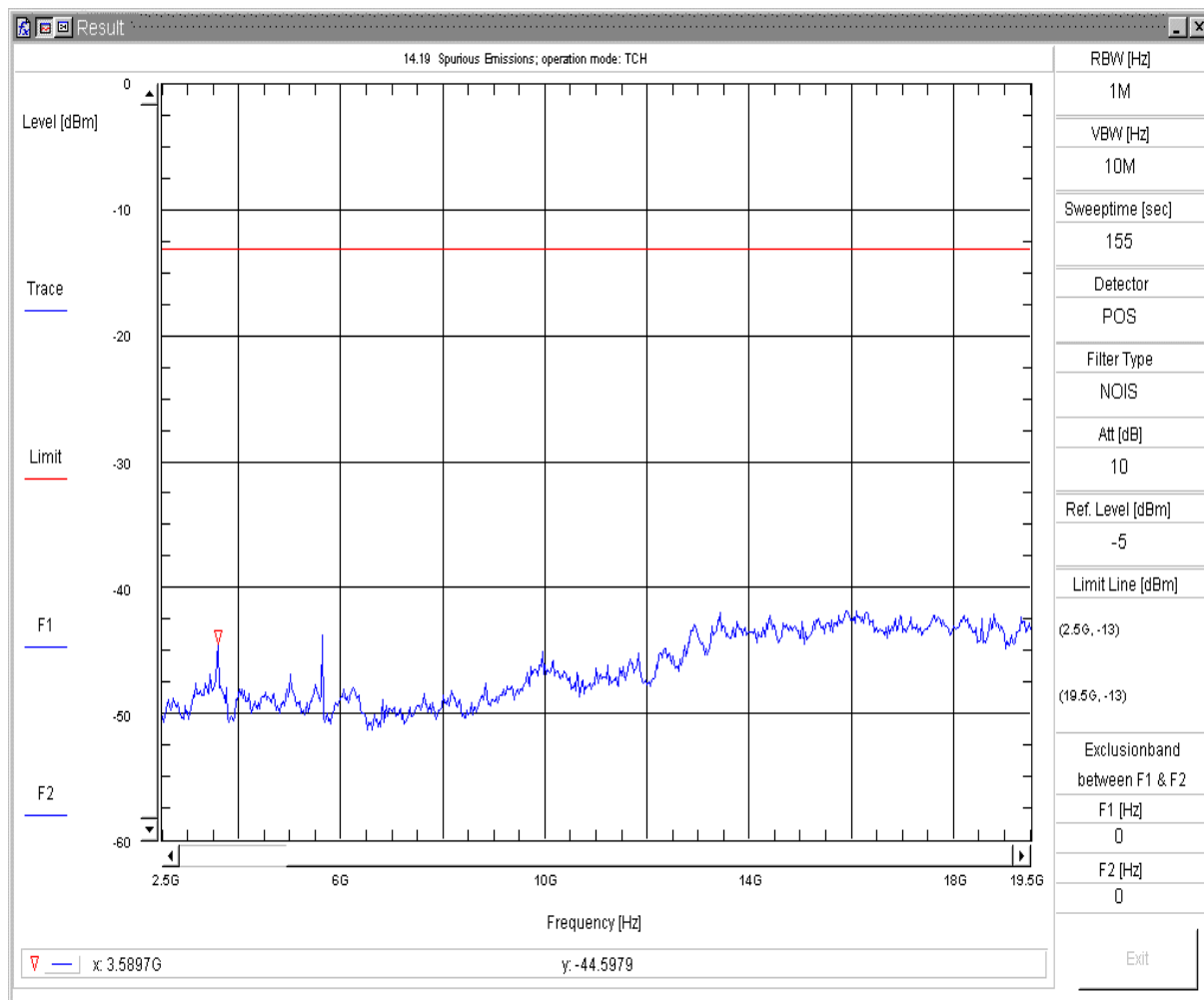


#### 14.18 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_24\_1900\TD\_TX  
 Sweepnr: Sweep3  
 EUT OP Mode: FCC\_Part\_24\_1900 TCH  
 UE Power: 33.5 dBm / 33.5 dBm  
 UE Status: Connection established (observed by operator)  
 UE Uplink Ch. 512  
 EUT Description: Deimos + Cradle  
 EUT Hardware: 5.0  
 EUT Software: 1.4.2793  
 EUT Config:  
 EUT S/N: DS548BV03T  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 512  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Tue 16/Dec/2008 14:26:350

Conducted Spurious Emissions V7.1.5

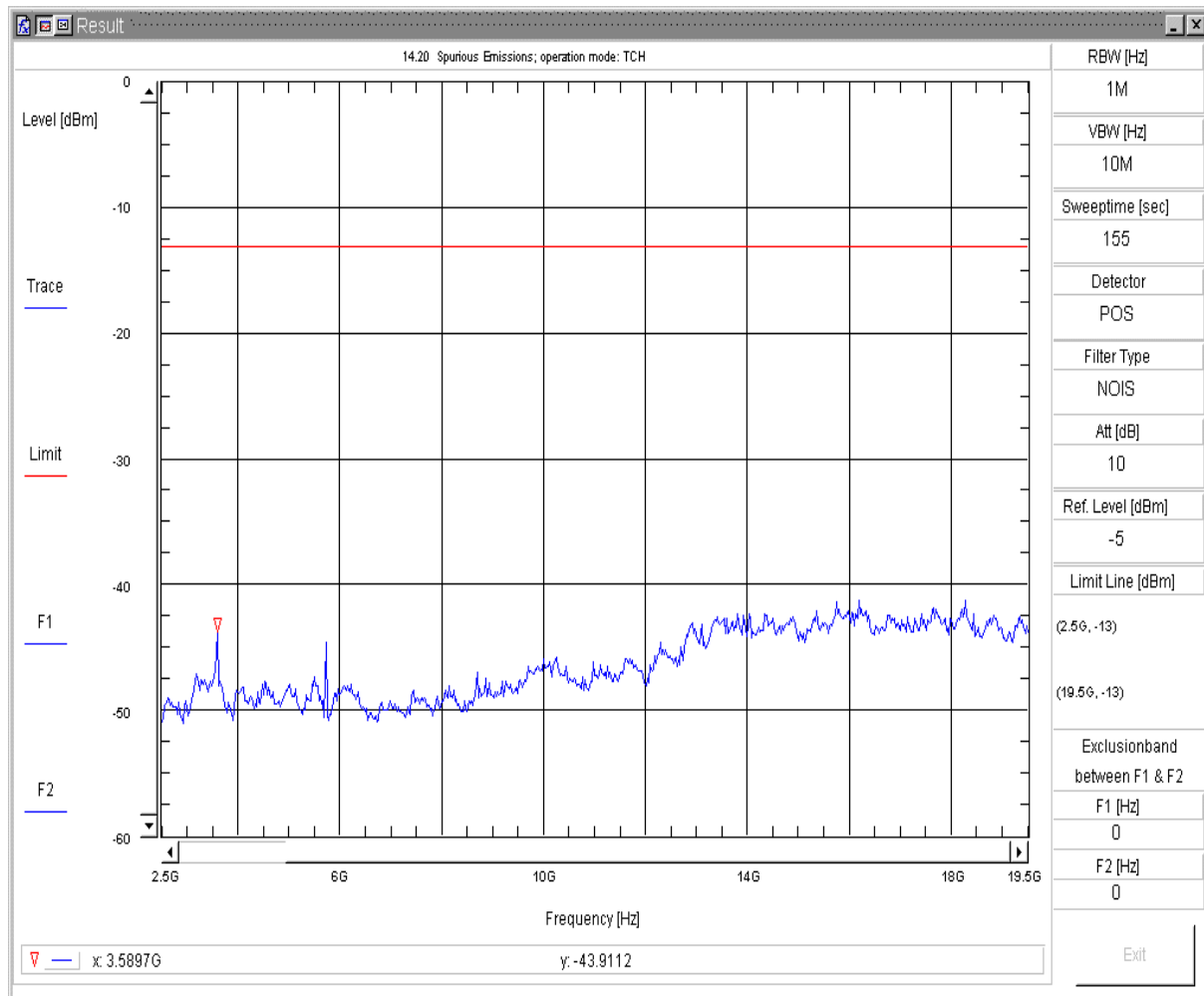


14.19 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_24\_1900\TD\_TX  
 Sweepnr: Sweep3  
 EUT OP Mode: FCC\_Part\_24\_1900 TCH  
 UE Power: 24.5 dBm / 24.5 dBm  
 UE Status: Connection established (observed by operator)  
 UE Uplink Ch 661  
 EUT Description: Deimos + Cradle  
 EUT Hardware: 5.0  
 EUT Software: 1.4.2793  
 EUT Config:  
 EUT S/N: DS548BV03T  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 661  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Tue 16/Dec/2008 14:30:460

Conducted Spurious Emissions V7.1.5



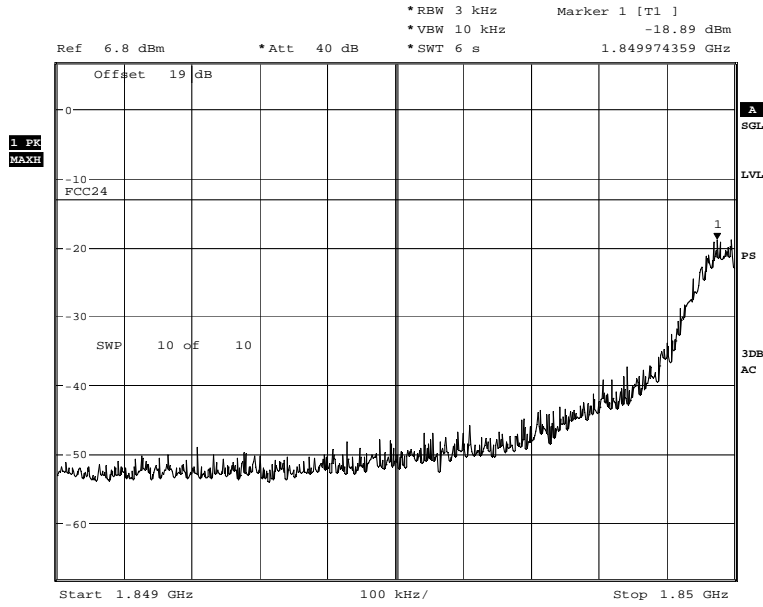
#### 14.20 Conducted Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\conducted\FCC\_Part\_24\_1900\TD\_TX  
 Sweepnr: Sweep3  
 EUT OP Mode: FCC\_Part\_24\_1900 TCH  
 UE Power: 30.8 dBm / 30.8 dBm  
 UE Status: Connection established (observed by operator)  
 UE Uplink Ch 810  
 EUT Description: Deimos + Cradle  
 EUT Hardware: 5.0  
 EUT Software: 1.4.2793  
 EUT Config:  
 EUT S/N: DS548BV03T  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 810  
 Operator: LOR  
 Testing Site: Radio Laboratory; CETECOM Essen

Tue 16/Dec/2008 14:34:420

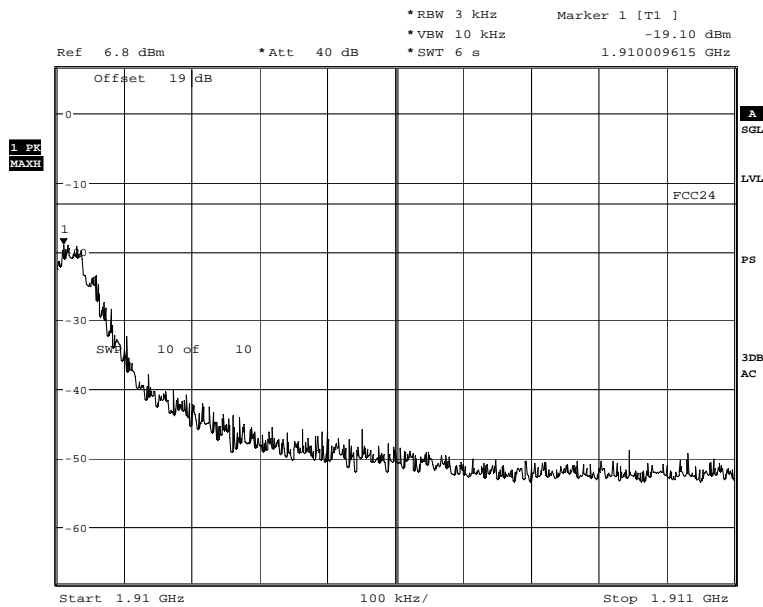
Conducted Spurious Emissions V7.1.5

Band-Edge compliance



Date: 16.DEC.2008 15:05:05

Diagram 14.21: Band Edge Channel 512 – 8-PSK

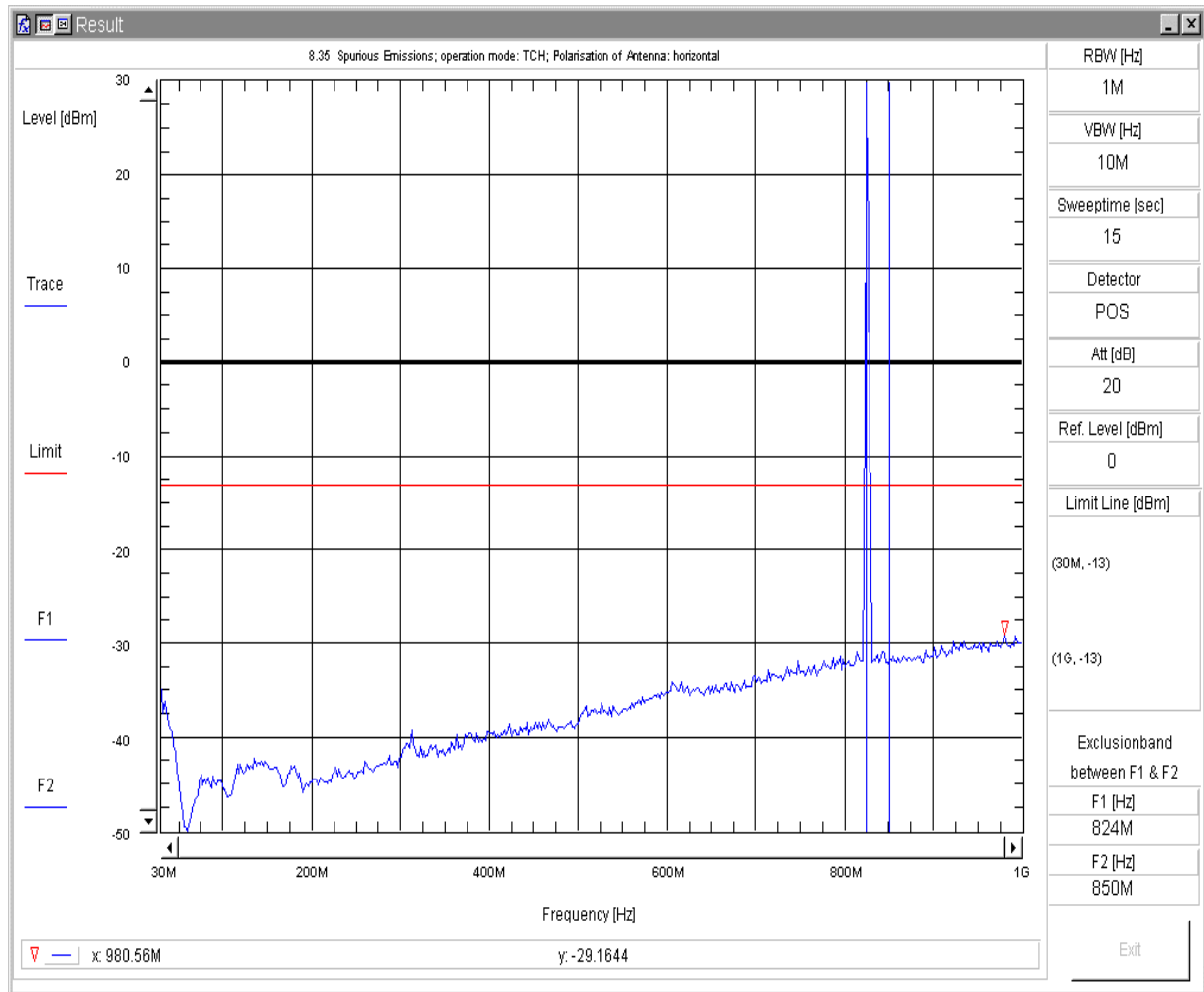


Date: 16.DEC.2008 15:03:31

Diagram 14.22: Band Edge Channel 810 – 8-PSK

## 1.4. RADIATED SPURIOUS EMISSIONS

### Diagrams – GSM 850 mode

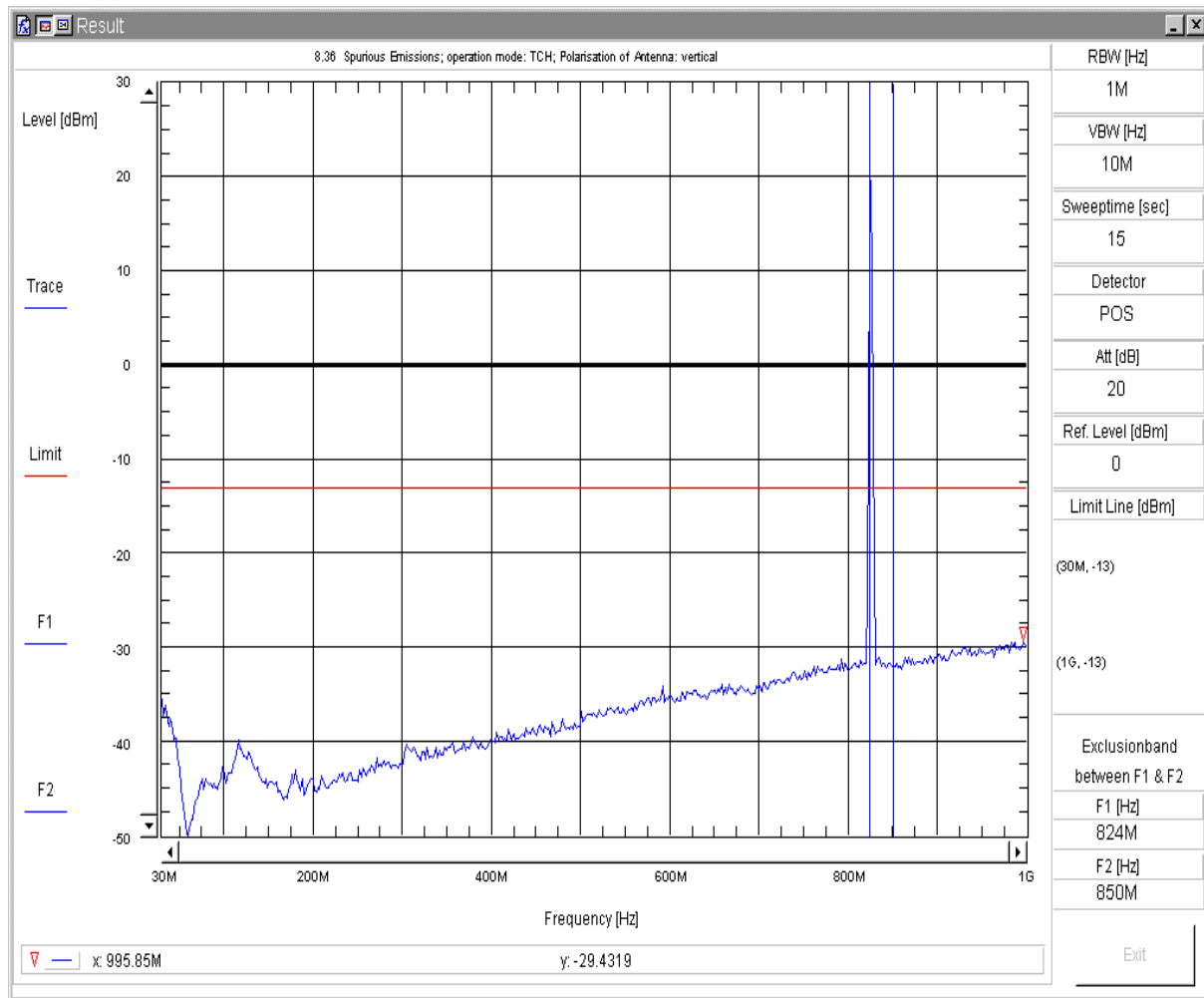


8.35 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part22\_850\TD\_TX\_H  
 Sweepnr: Sweep1  
 Pol. of Antenna: horizontal  
 EUT Position: EUT\_vertical+horizontal  
 EUT OP Mode: FCC\_Part22\_850 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 128  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 20:05:35ppf

Spurious Emissions V7.1.1



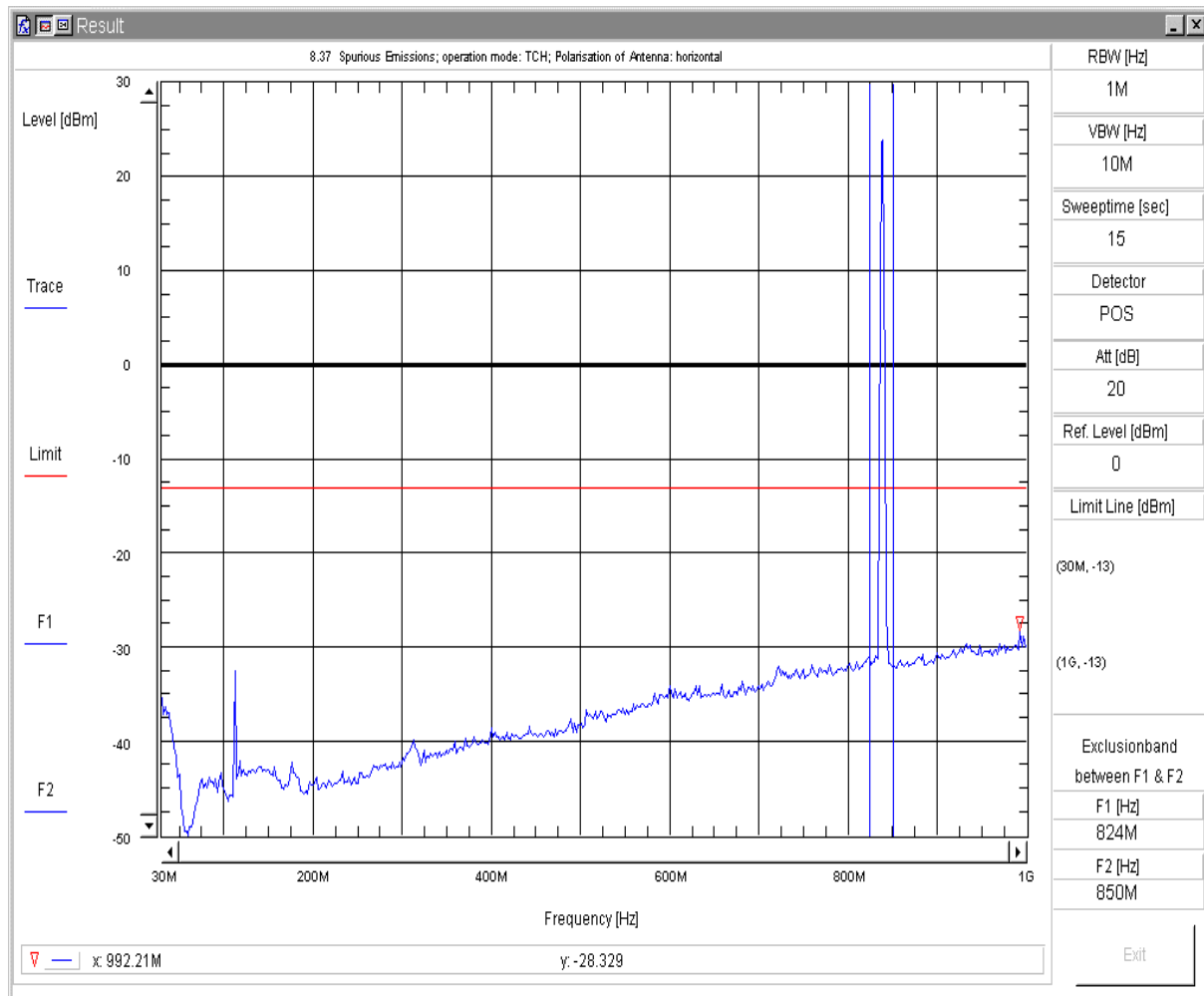
### 8.36 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part22\_850\TD\_TX\_V  
 Sweepnr: Sweep1  
 Pol. of Antenna: vertikal  
 EUT Position: EUT\_vertikal+horizontal  
 EUT OP Mode: FCC\_Part22\_850 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 128  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 20:09:49ppf

Spurious Emissions V7.1.1



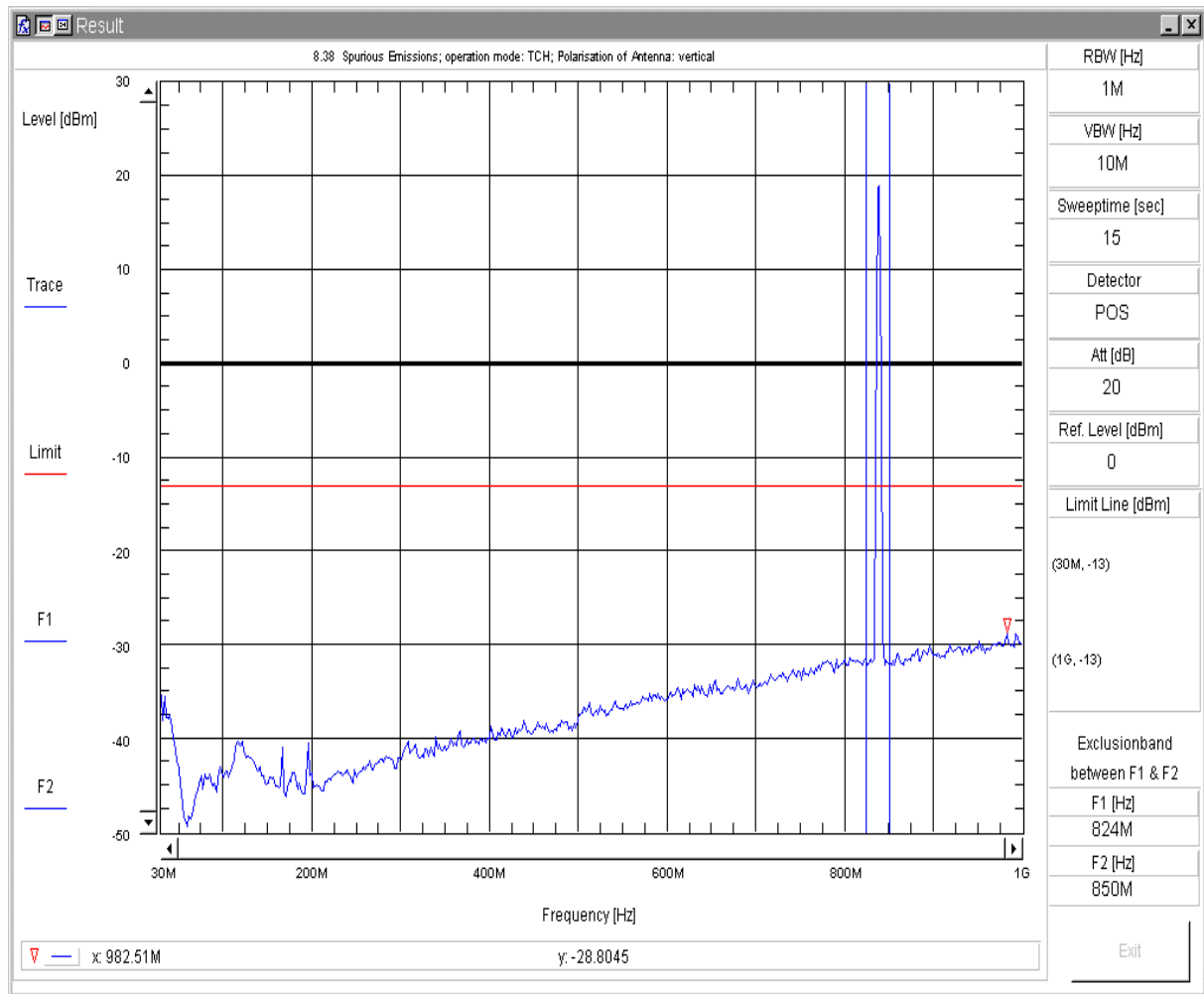


### 8.37 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part22\_850\TD\_TX\_H  
 Sweepnr: Sweep1  
 Pol. of Antenna: horizontal  
 EUT Position: EUT\_vertical+horizontal  
 EUT OP Mode: FCC\_Part22\_850 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 192  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 21:43:04ppf

Spurious Emissions V7.1.1

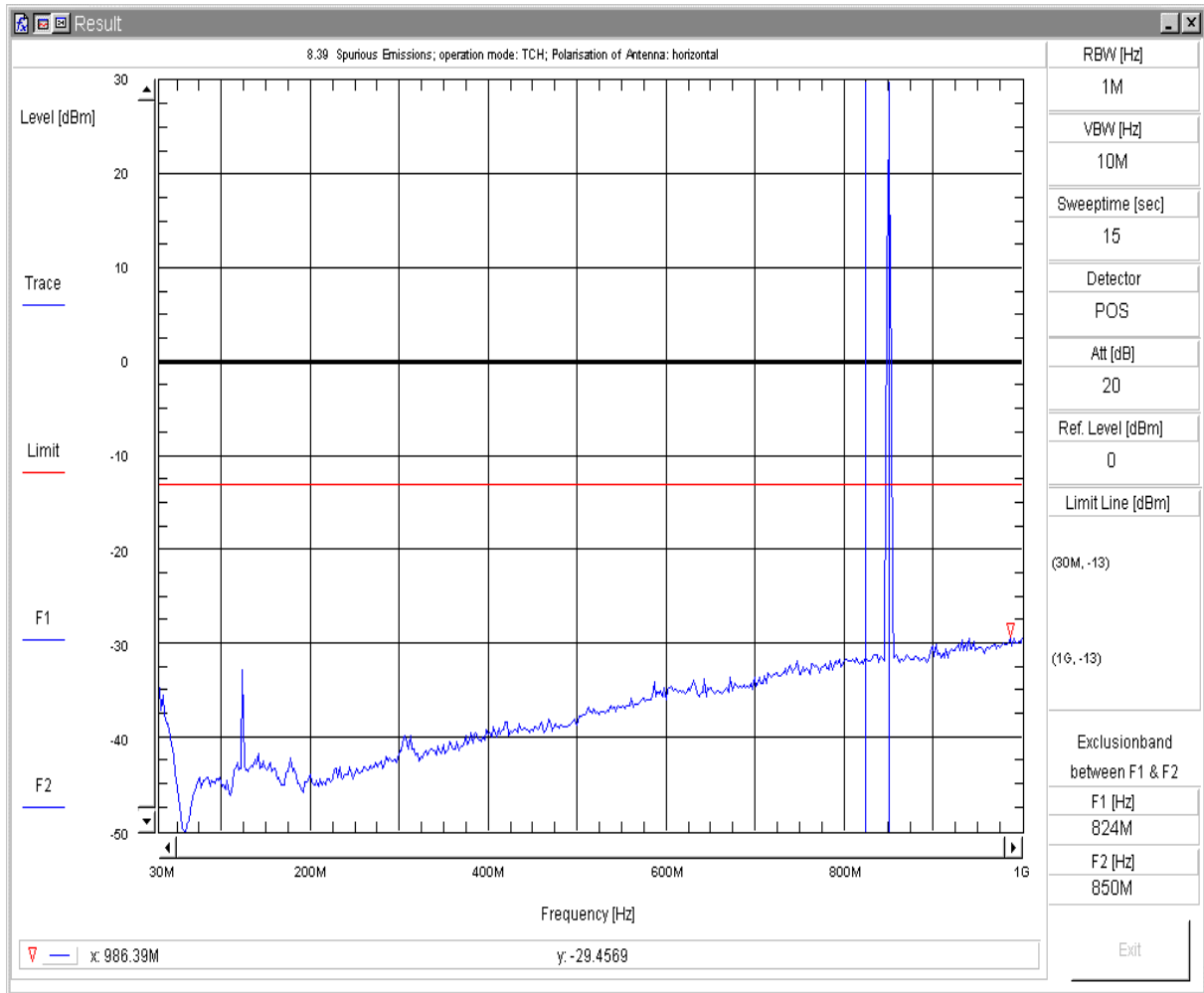


### 8.38 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part22\_850\TD\_TX\_V  
 Sweepnr: Sweep1  
 Pol. of Antenna: vertikal  
 EUT Position: EUT\_vertikal+horizontal  
 EUT OP Mode: FCC\_Part22\_850 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 192  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 21:52:25ppf

Spurious Emissions V7.1.1

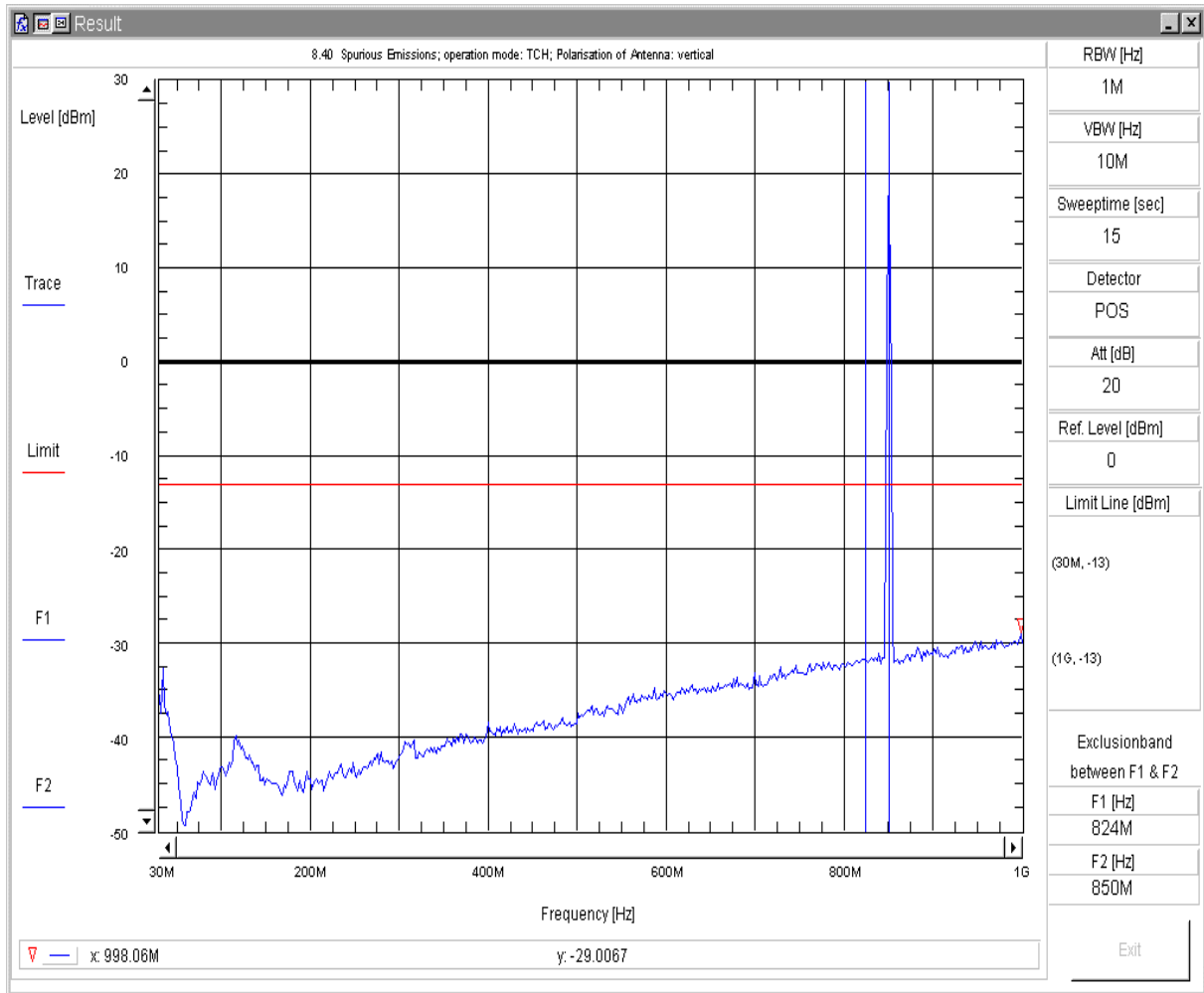


### 8.39 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part22\_850\TD\_TX\_H  
 Sweepnr: Sweep1  
 Pol. of Antenna: horizontal  
 EUT Position: EUT\_vertical+horizontal  
 EUT OP Mode: FCC\_Part22\_850 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 251  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 21:56:51ppf

Spurious Emissions V7.1.1

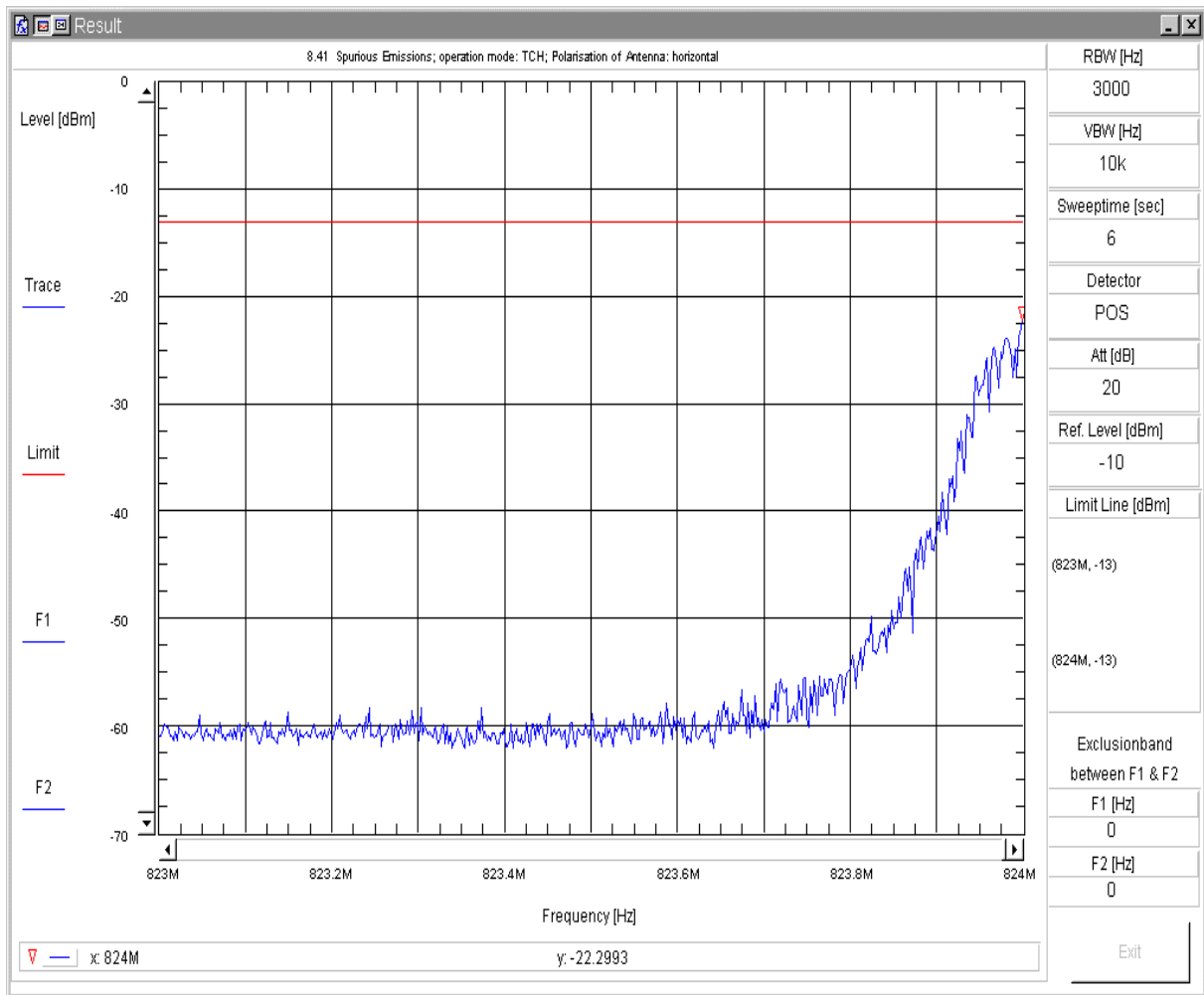


#### 8.40 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part22\_850\TD\_TX\_V  
 Sweepnr: Sweep1  
 Pol. of Antenna: vertikal  
 EUT Position: EUT\_vertikal+horizontal  
 EUT OP Mode: FCC\_Part22\_850 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 251  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 22:02:11ppf

Spurious Emissions V7.1.1

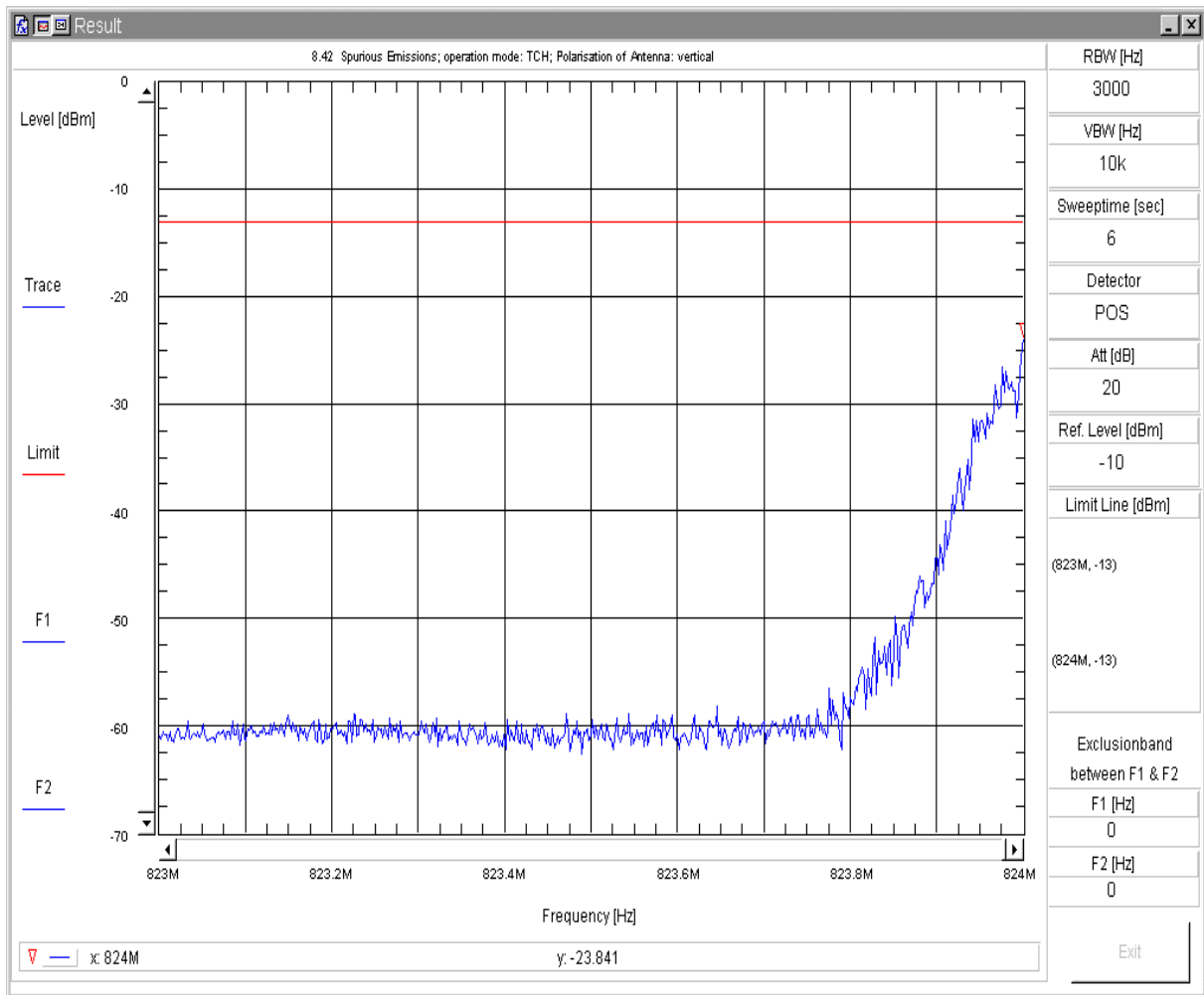


#### 8.41 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part22\_850\TD\_TX\_H  
 Sweepnr: Sweep2  
 Pol. of Antenna: horizontal  
 EUT Position: EUT\_vertical+horizontal  
 EUT OP Mode: FCC\_Part22\_850 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 128  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 20:21:18ppf

Spurious Emissions V7.1.1

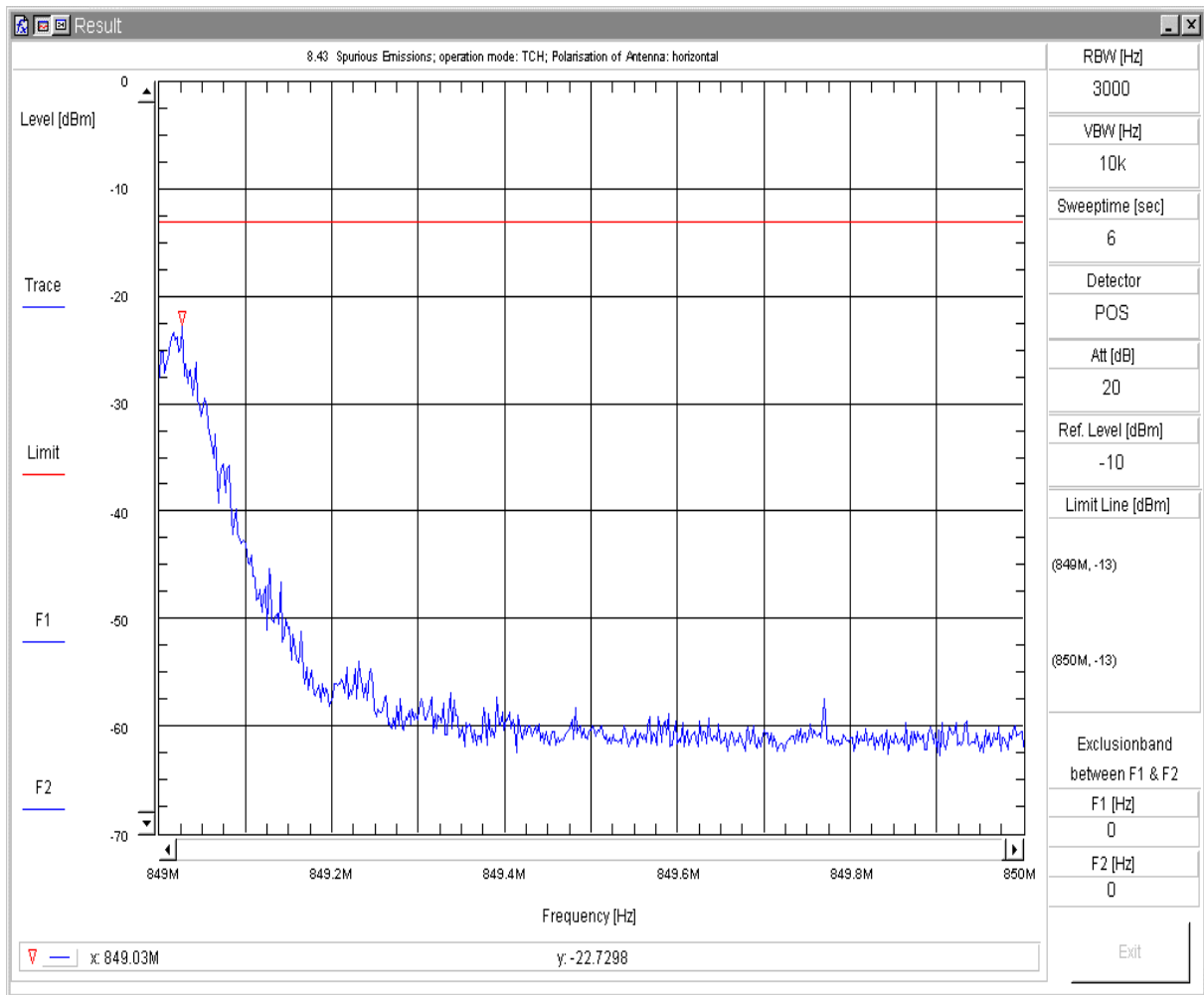


#### 8.42 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part22\_850\TD\_TX\_V  
 Sweepnr: Sweep2  
 Pol. of Antenna: vertikal  
 EUT Position: EUT\_vertikal+horizontal  
 EUT OP Mode: FCC\_Part22\_850 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 128  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 20:24:54ppf

Spurious Emissions V7.1.1

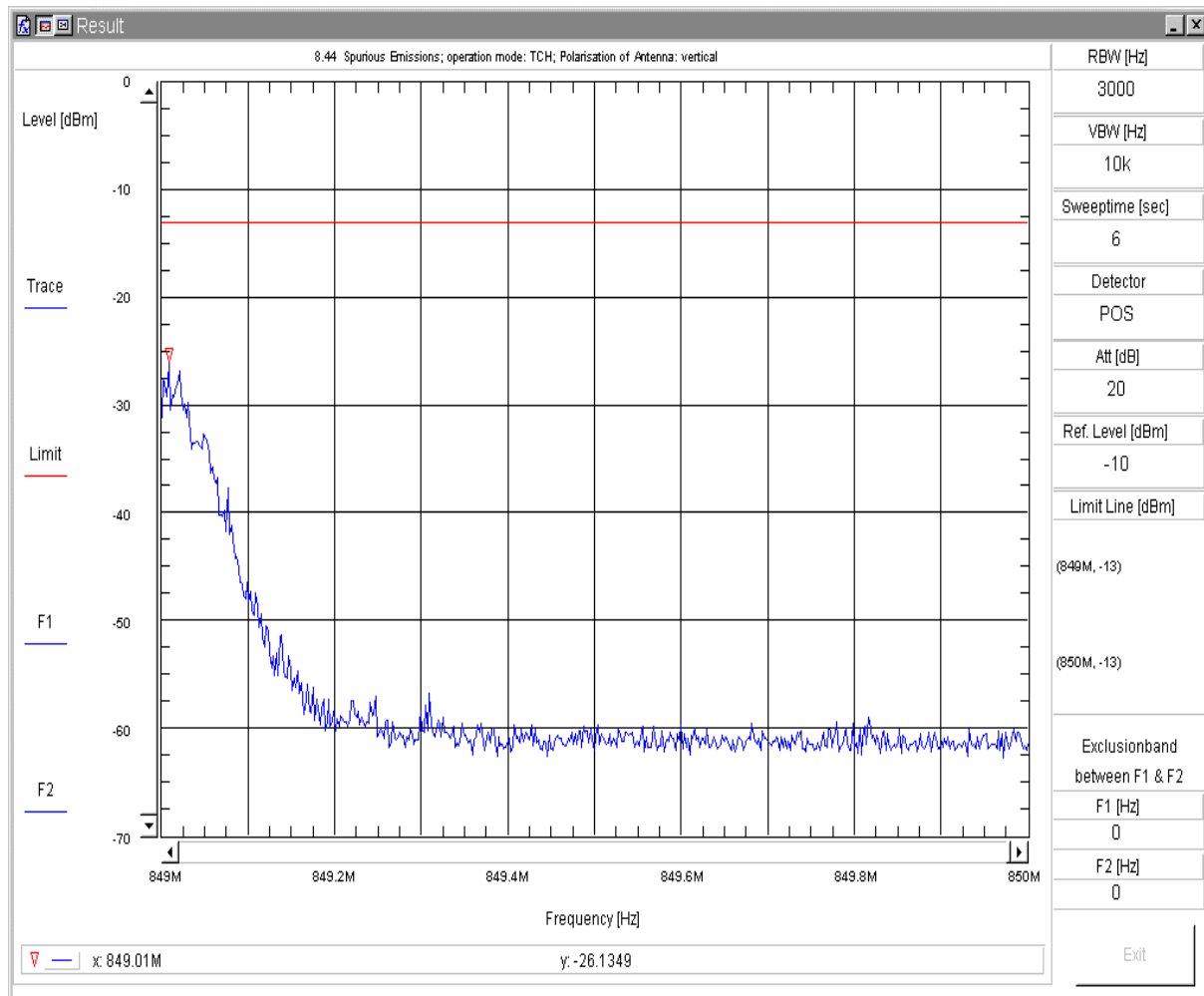


#### 8.43 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part22\_850\TD\_TX\_H  
 Sweepnr: Sweep3  
 Pol. of Antenna: horizontal  
 EUT Position: EUT\_vertical+horizontal  
 EUT OP Mode: FCC\_Part22\_850 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 251  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 22:06:44ppf

Spurious Emissions V7.1.1



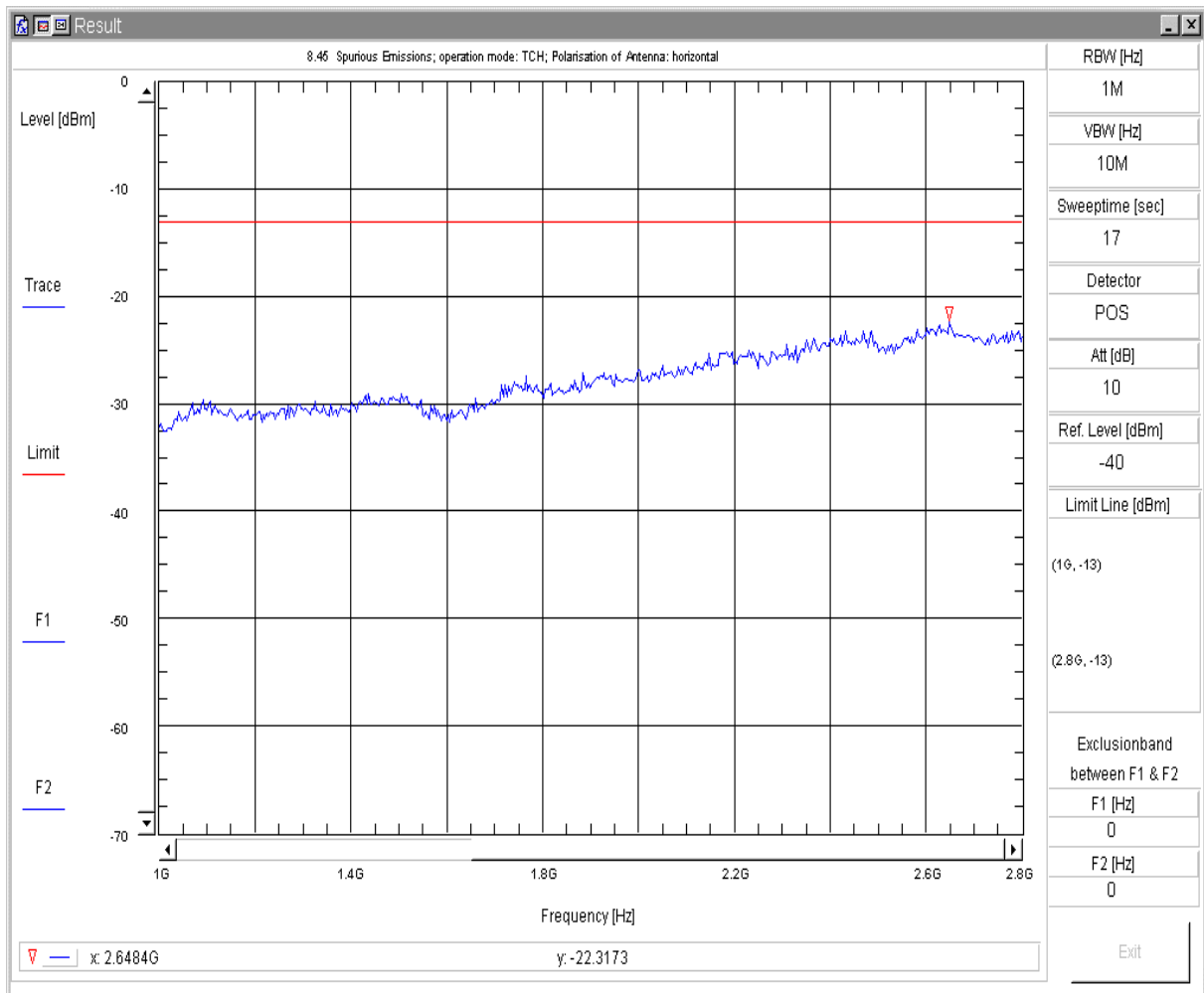
#### 8.44 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part22\_850\TD\_TX\_V  
 Sweepnr: Sweep3  
 Pol. of Antenna: vertikal  
 EUT Position: EUT\_vertikal+horizontal  
 EUT OP Mode: FCC\_Part22\_850 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 251  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 22:10:02ppf

Spurious Emissions V7.1.1



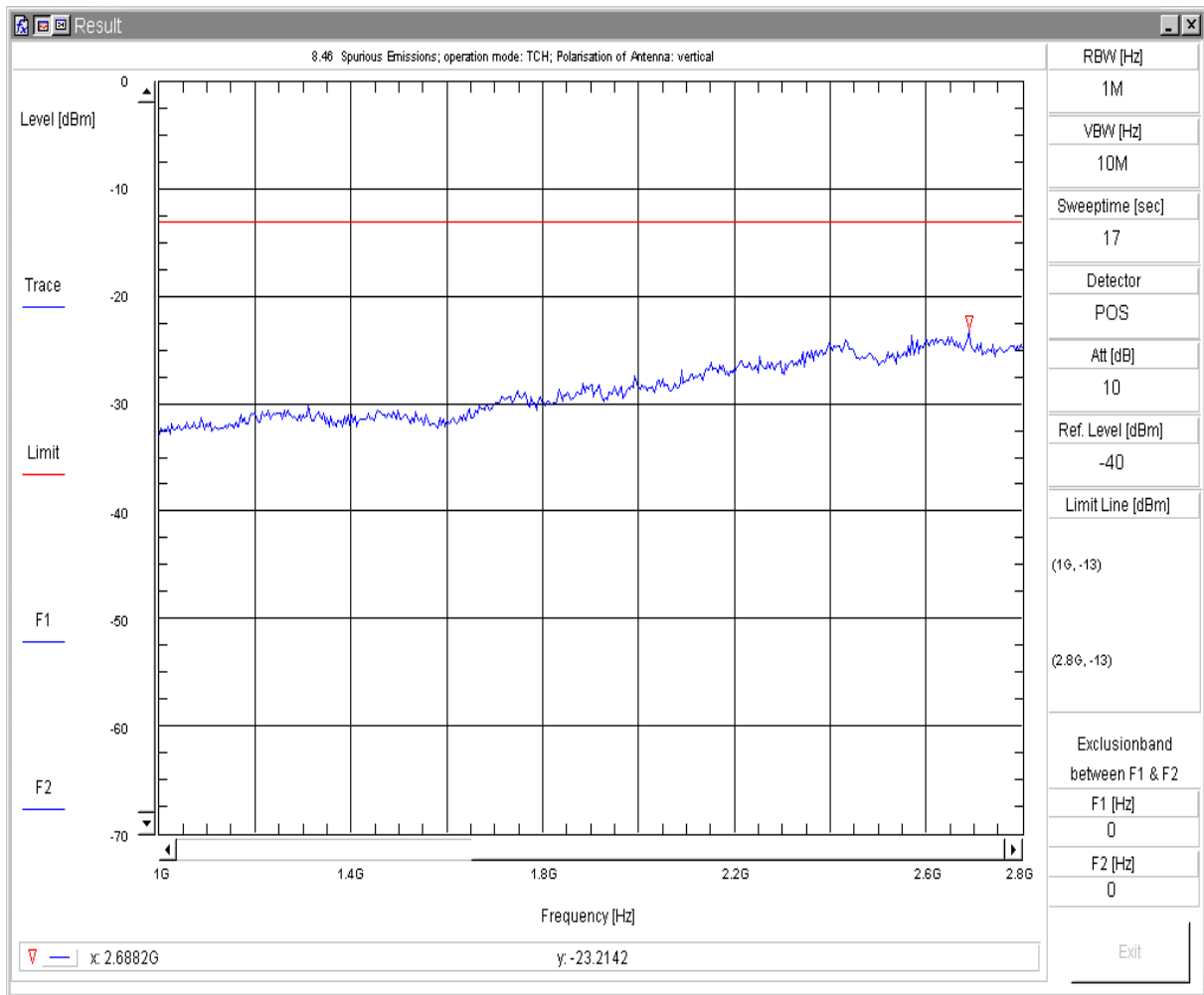


#### 8.45 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part22\_850\TD\_TX\_H  
 Sweepnr: Sweep4  
 Pol. of Antenna: horizontal  
 EUT Position: EUT\_vertical+horizontal  
 EUT OP Mode: FCC\_Part22\_850 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 128  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 20:28:40fp

Spurious Emissions V7.1.1

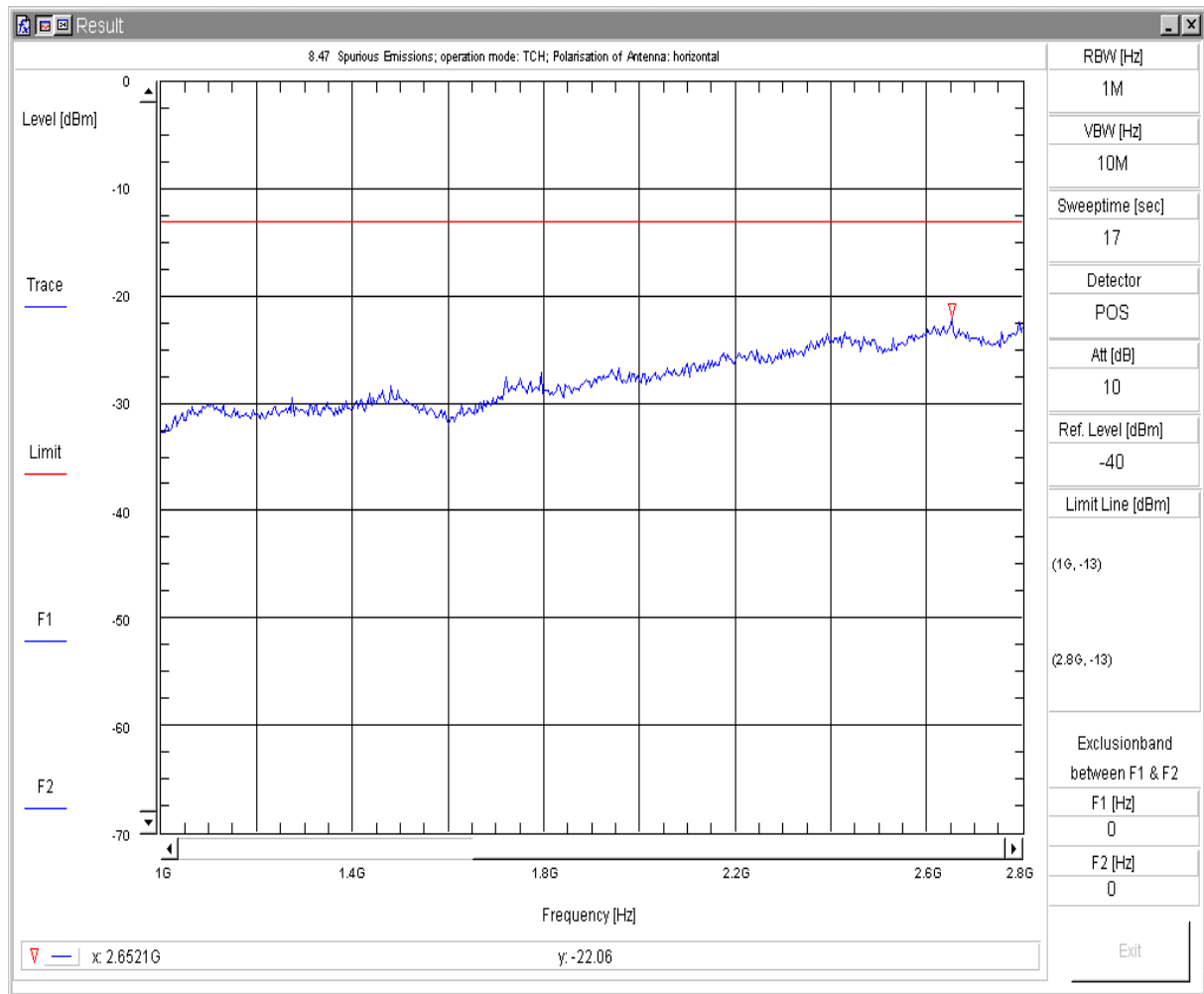


#### 8.46 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part22\_850\TD\_TX\_V  
 Sweepnr: Sweep4  
 Pol. of Antenna: vertikal  
 EUT Position: EUT\_vertikal+horizontal  
 EUT OP Mode: FCC\_Part22\_850 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 128  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 20:35:44pp

Spurious Emissions V7.1.1

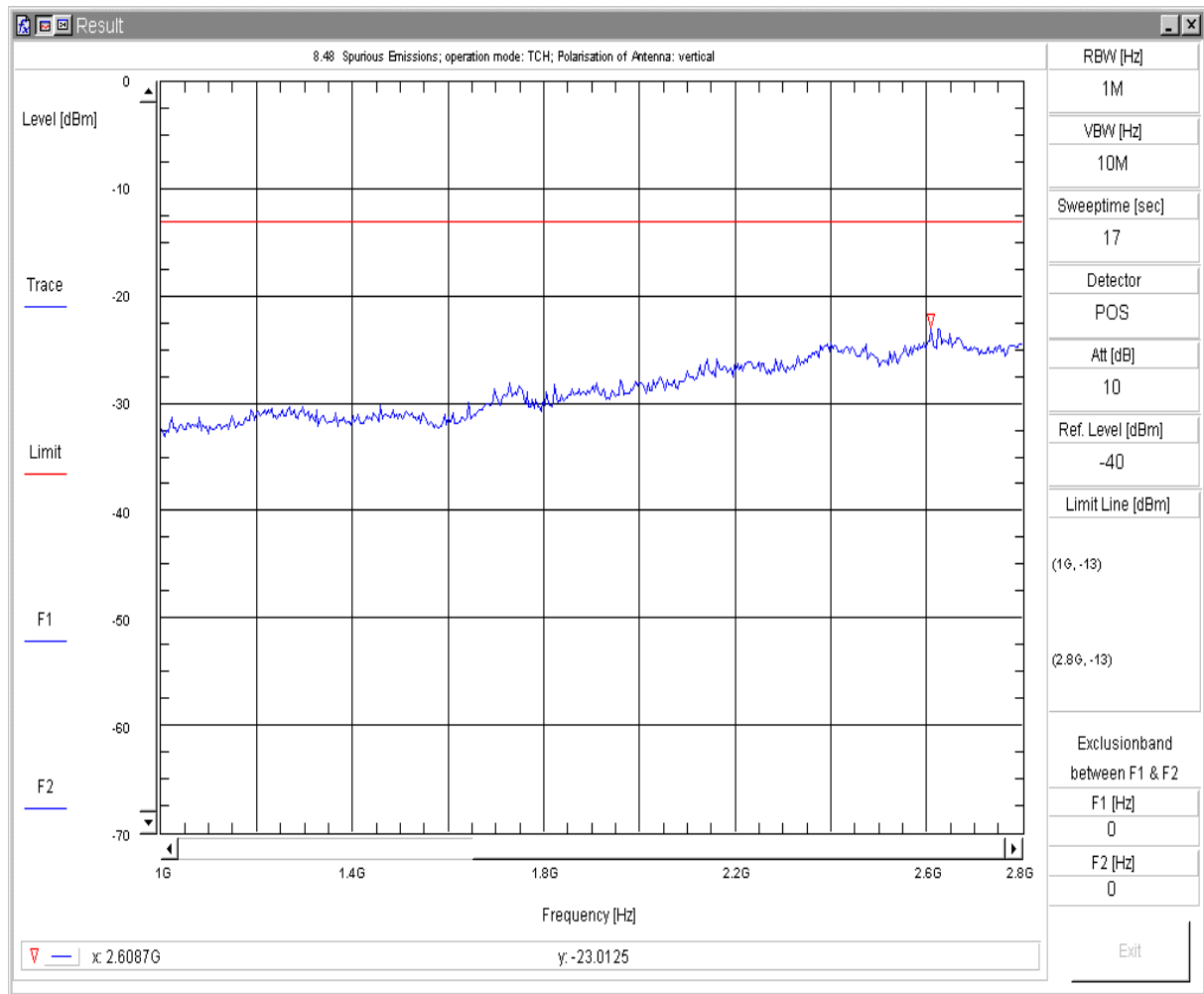


#### 8.47 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part22\_850\TD\_TX\_H  
 Sweepnr: Sweep4  
 Pol. of Antenna: horizontal  
 EUT Position: EUT\_vertical+horizontal  
 EUT OP Mode: FCC\_Part22\_850 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 192  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 21:27:43fp

Spurious Emissions V7.1.1

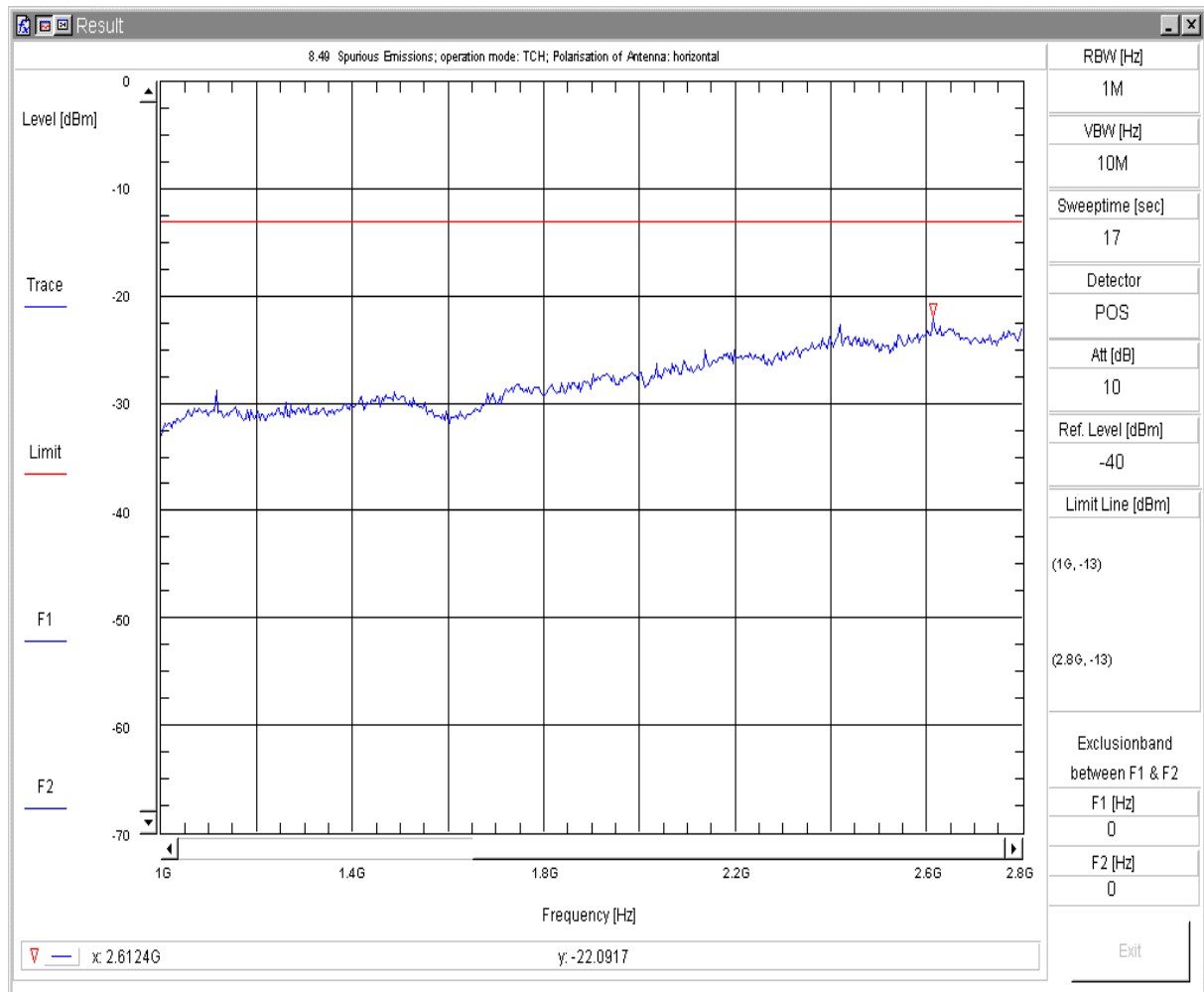


#### 8.48 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part22\_850\TD\_TX\_V  
 Sweepnr: Sweep4  
 Pol. of Antenna: vertikal  
 EUT Position: EUT\_vertikal+horizontal  
 EUT OP Mode: FCC\_Part22\_850 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 192  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 21:35:26pp

Spurious Emissions V7.1.1

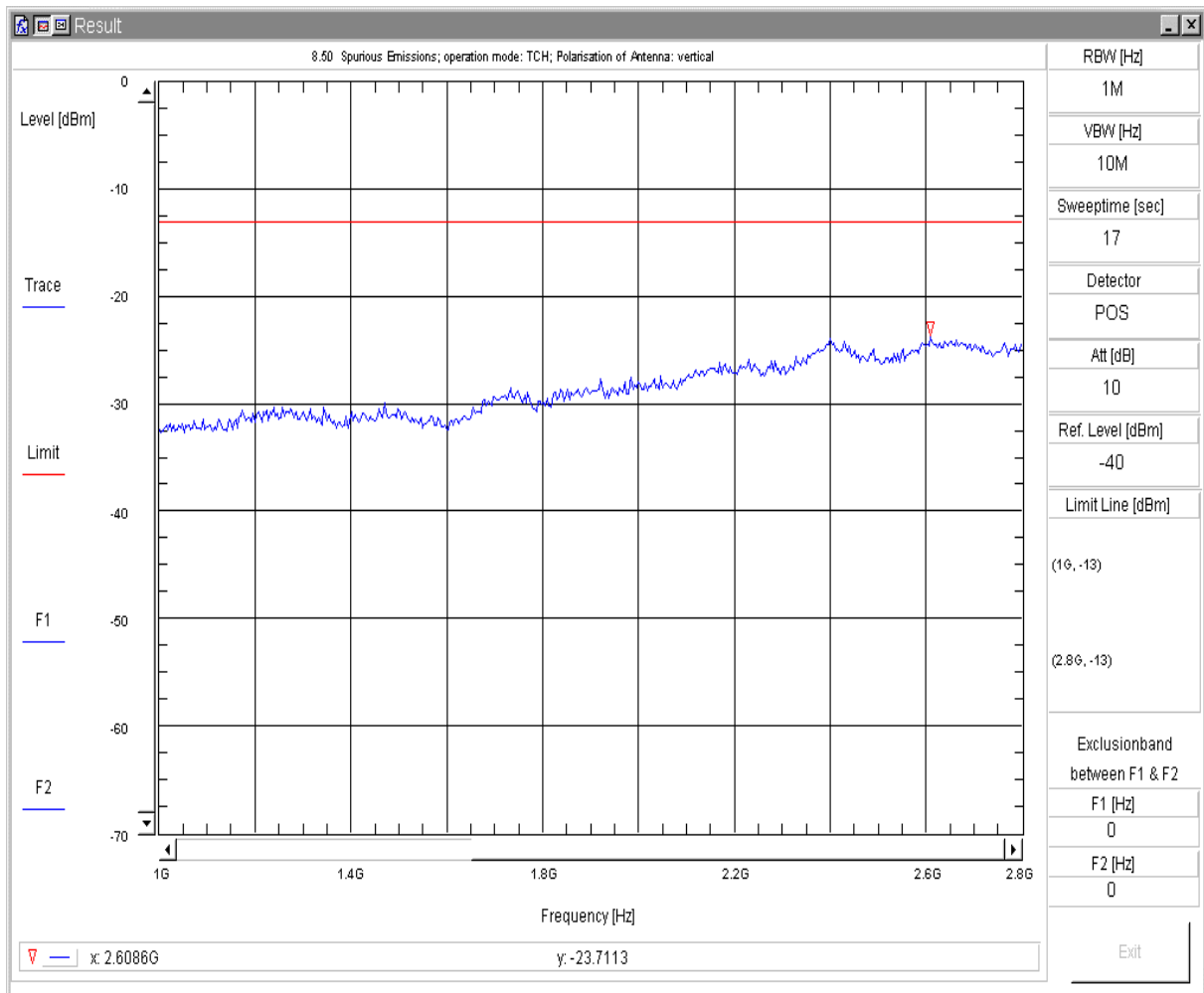


#### 8.49 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part22\_850\TD\_TX\_H  
 Sweepnr: Sweep4  
 Pol. of Antenna: horizontal  
 EUT Position: EUT\_vertical+horizontal  
 EUT OP Mode: FCC\_Part22\_850 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 251  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 22:13:44fp

Spurious Emissions V7.1.1

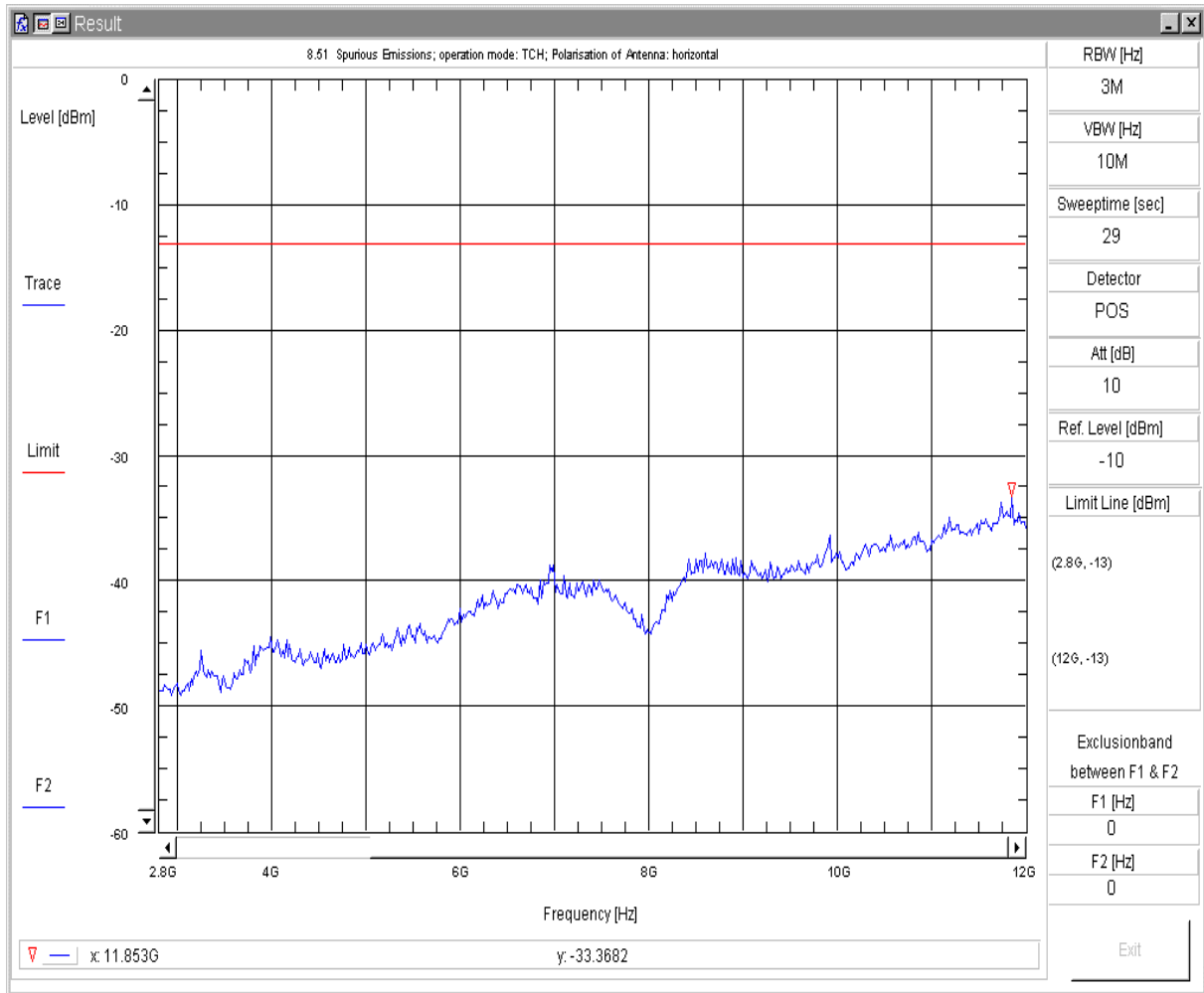


### 8.50 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part22\_850\TD\_TX\_V  
 Sweepnr: Sweep4  
 Pol. of Antenna: vertikal  
 EUT Position: EUT\_vertikal+horizontal  
 EUT OP Mode: FCC\_Part22\_850 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 251  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 22:20:59pp

Spurious Emissions V7.1.1

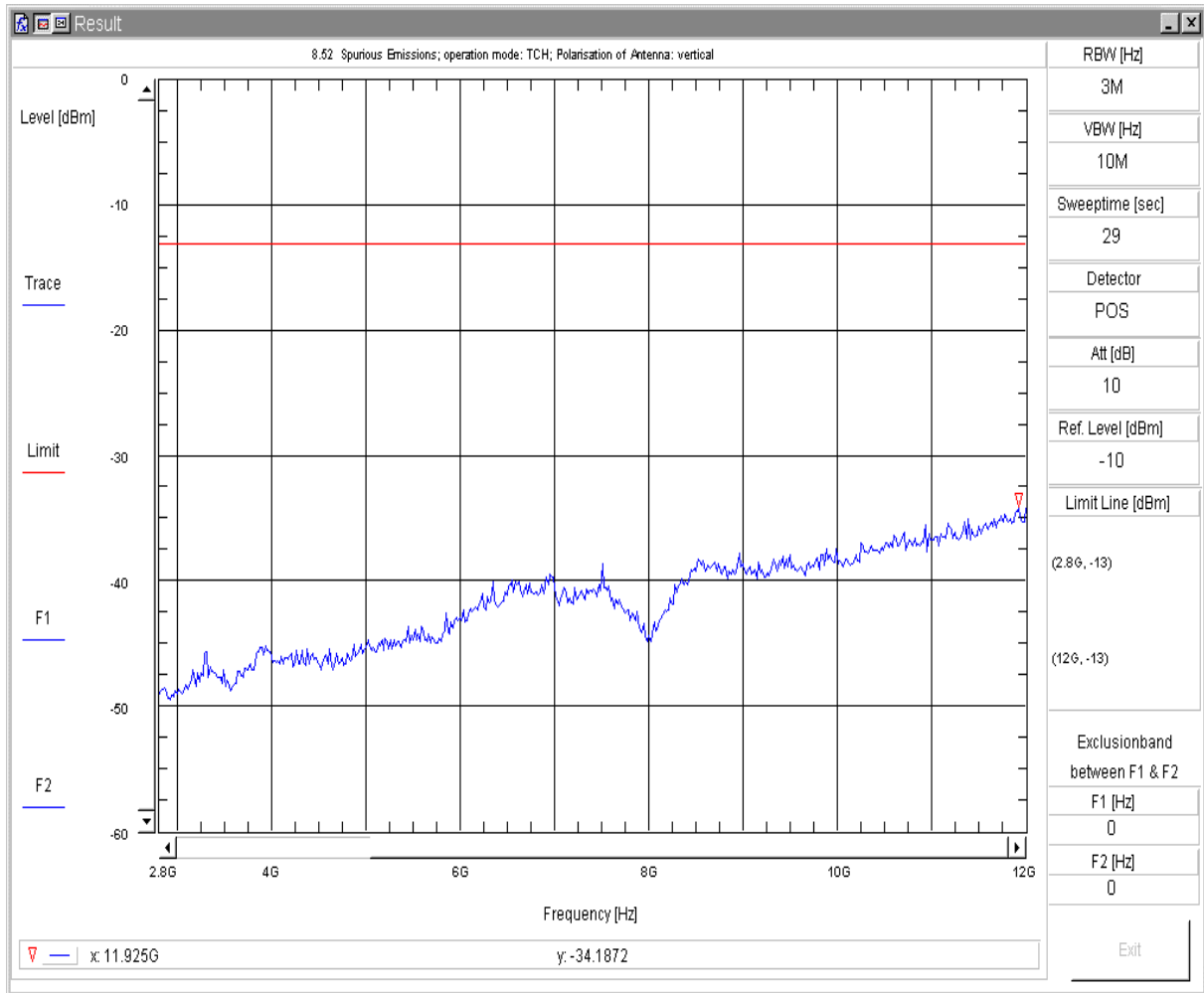


### 8.51 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part22\_850\TD\_TX\_H  
 Sweepnr: Sweep5  
 Pol. of Antenna: horizontal  
 EUT Position: EUT\_vertical+horizontal  
 EUT OP Mode: FCC\_Part22\_850 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 128  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 20:42:56fp

Spurious Emissions V7.1.1



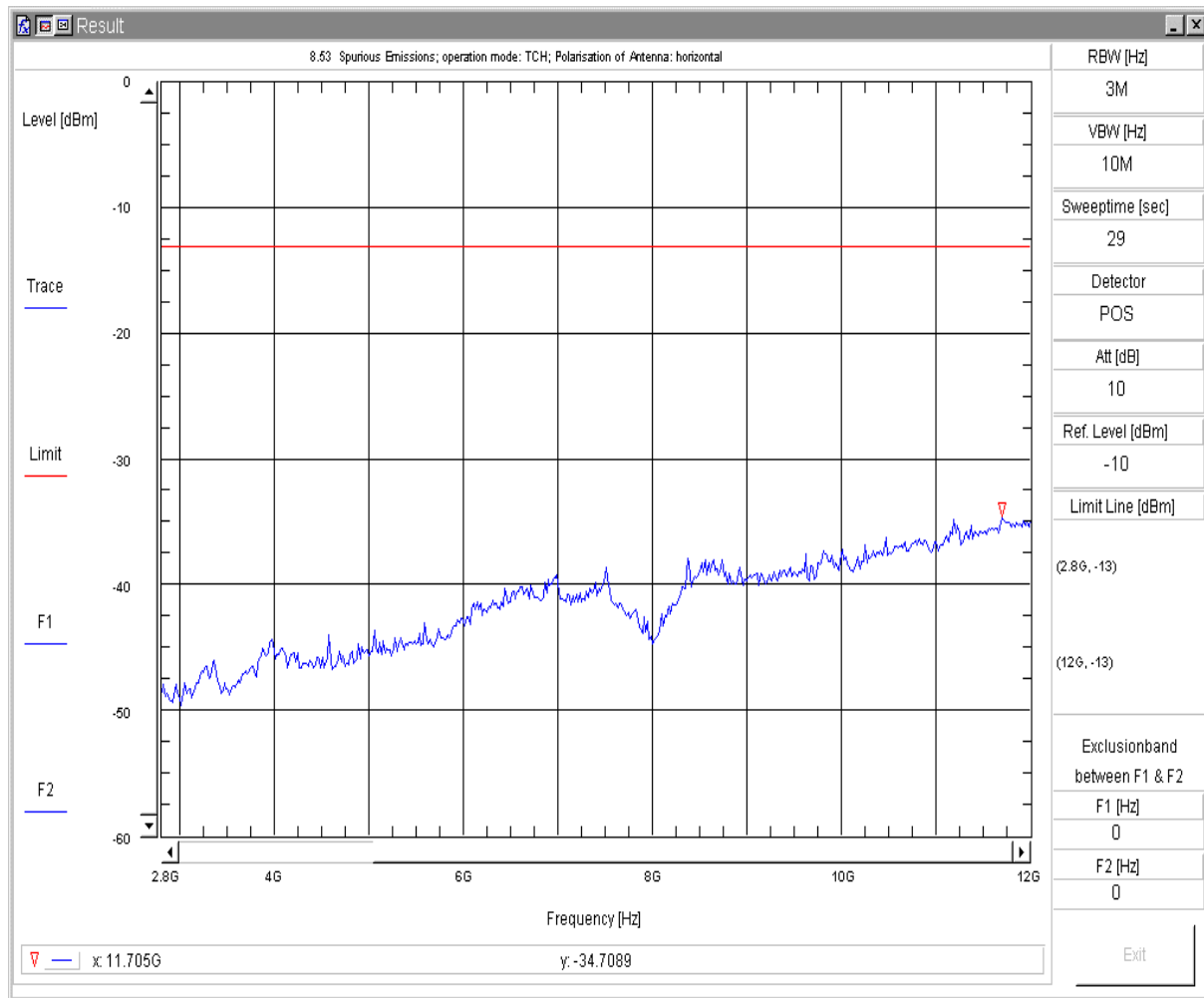
### 8.52 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part22\_850\TD\_TX\_V  
 Sweepnr: Sweep5  
 Pol. of Antenna: vertikal  
 EUT Position: EUT\_vertikal+horizontal  
 EUT OP Mode: FCC\_Part22\_850 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 128  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 20:56:13ff

Spurious Emissions V7.1.1



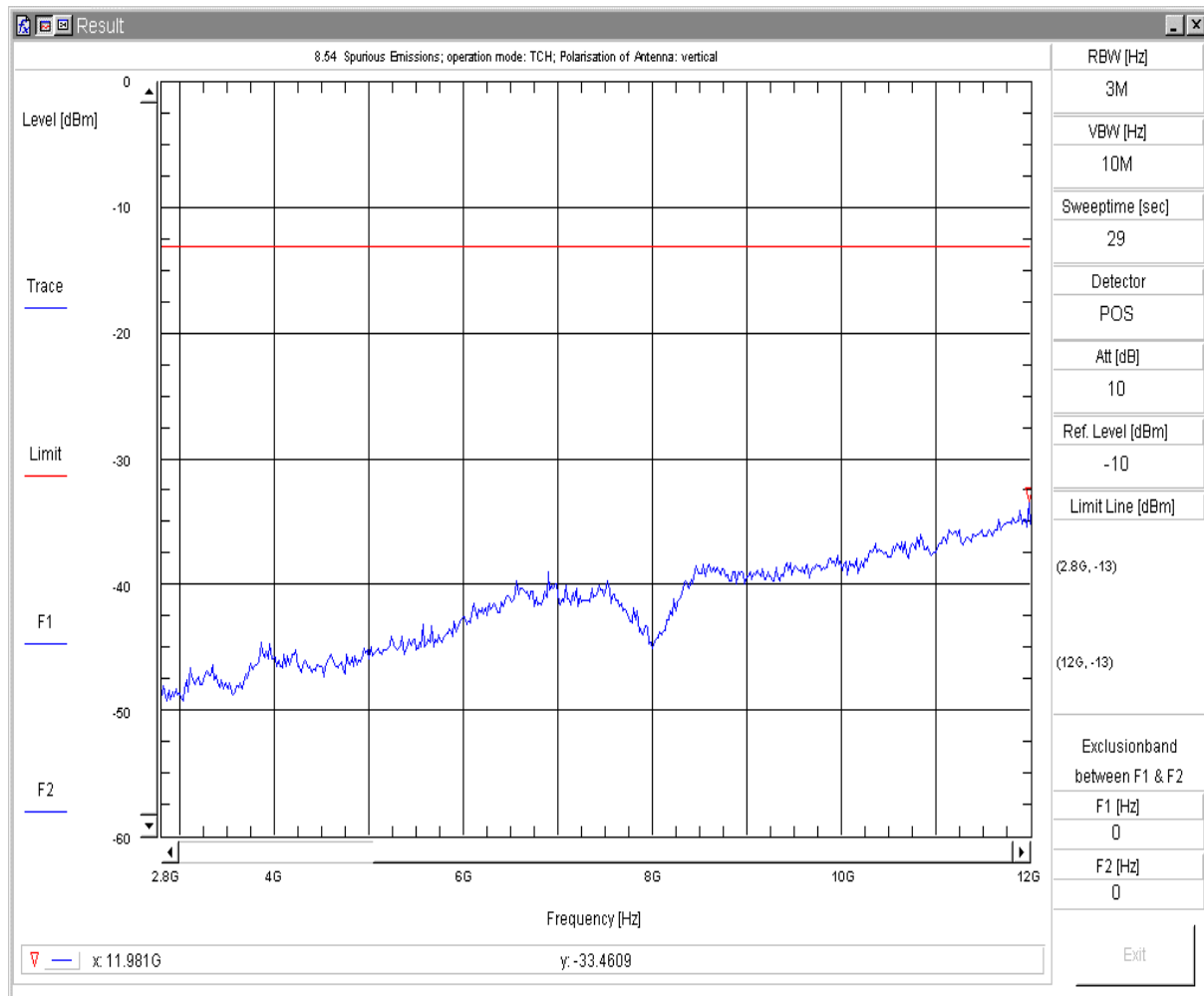


### 8.53 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part22\_850\TD\_TX\_H  
 Sweepnr: Sweep5  
 Pol. of Antenna: horizontal  
 EUT Position: EUT\_vertical+horizontal  
 EUT OP Mode: FCC\_Part22\_850 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 192  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 21:06:39fp

Spurious Emissions V7.1.1

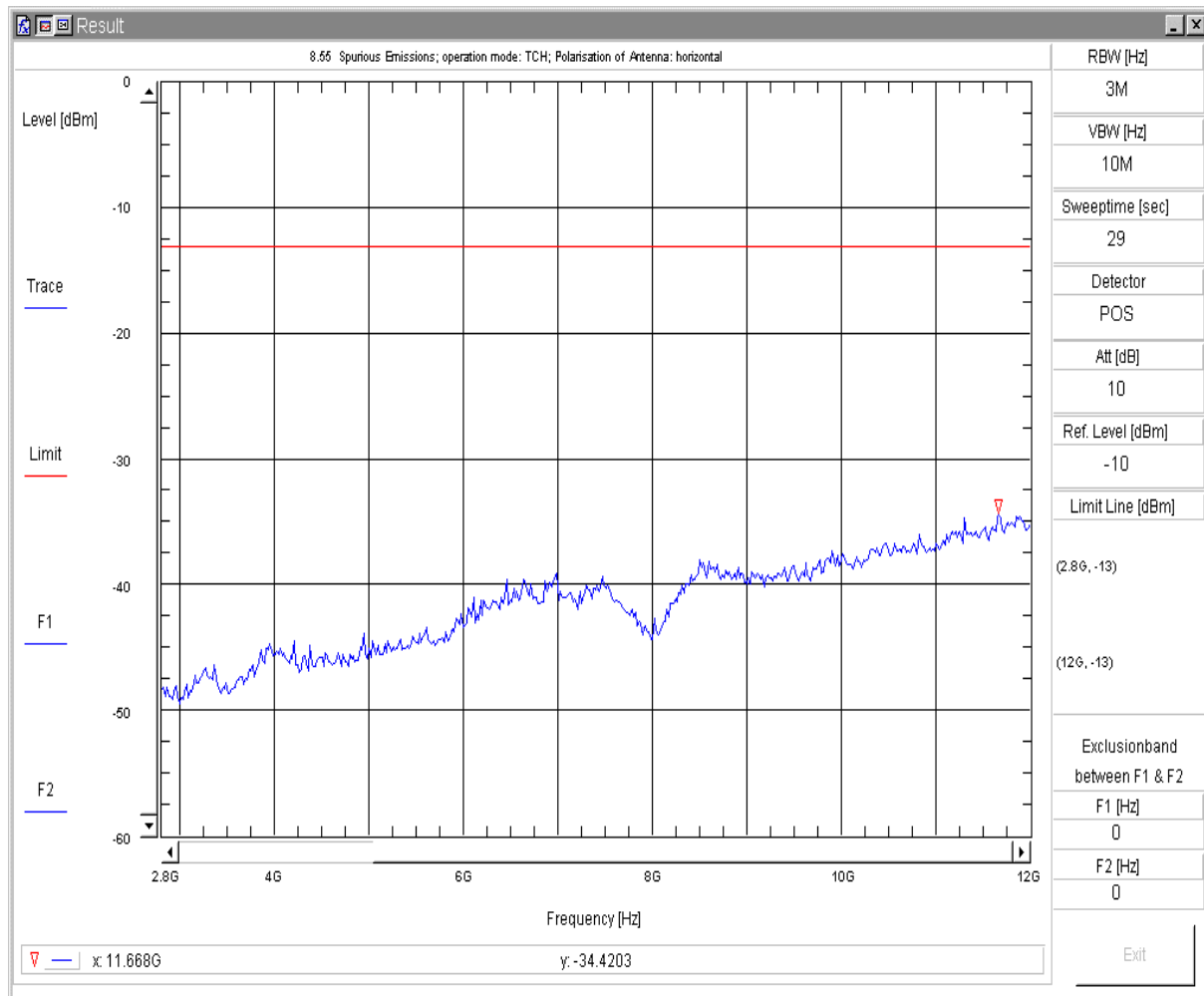


#### 8.54 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part22\_850\TD\_TX\_V  
 Sweepnr: Sweep5  
 Pol. of Antenna: vertikal  
 EUT Position: EUT\_vertical+horizontal  
 EUT OP Mode: FCC\_Part22\_850 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 192  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 21:16:42fp

Spurious Emissions V7.1.1

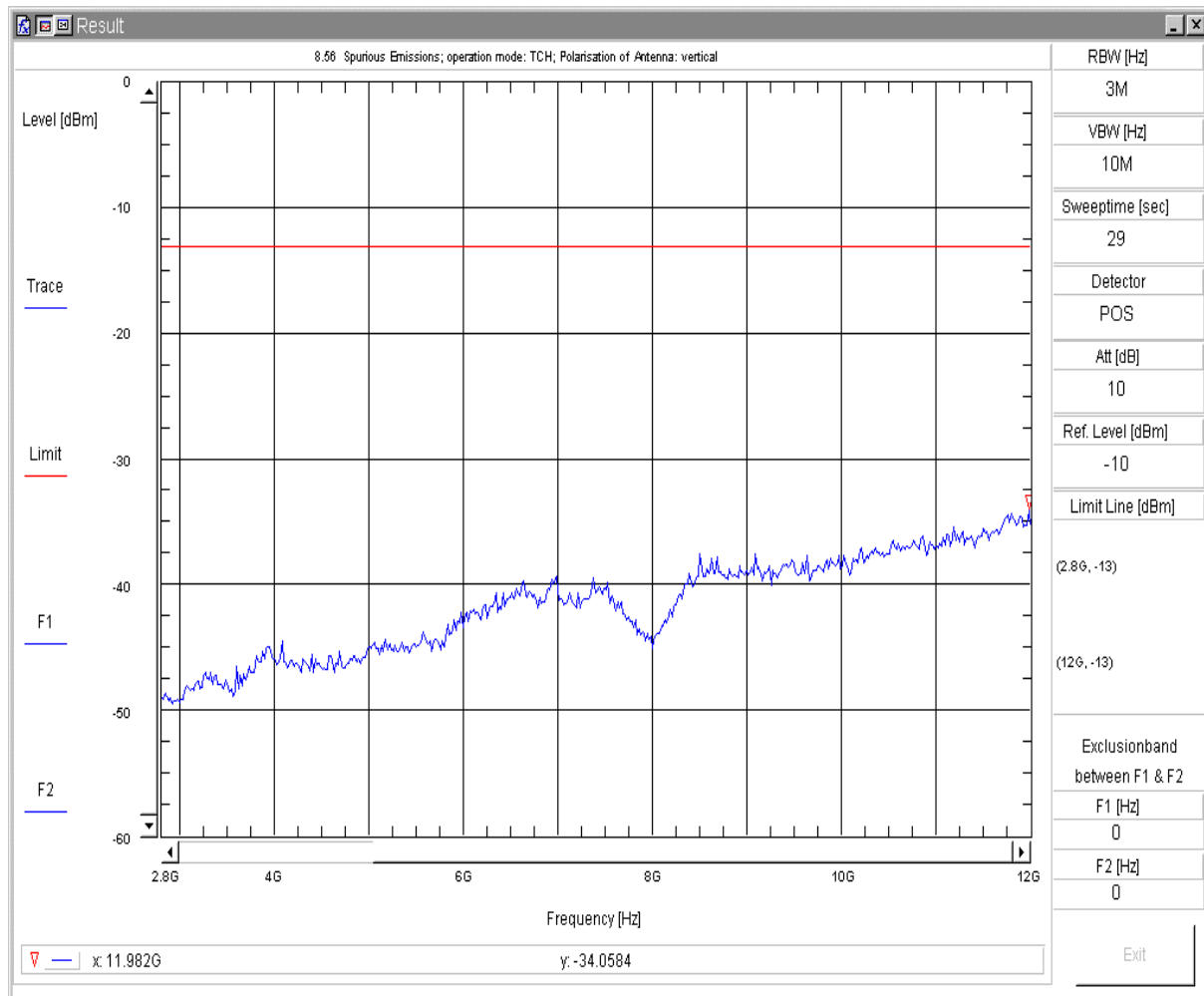


### 8.55 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part22\_850\TD\_TX\_H  
 Sweepnr: Sweep5  
 Pol. of Antenna: horizontal  
 EUT Position: EUT\_vertical+horizontal  
 EUT OP Mode: FCC\_Part22\_850 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 251  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 22:27:47fp

Spurious Emissions V7.1.1



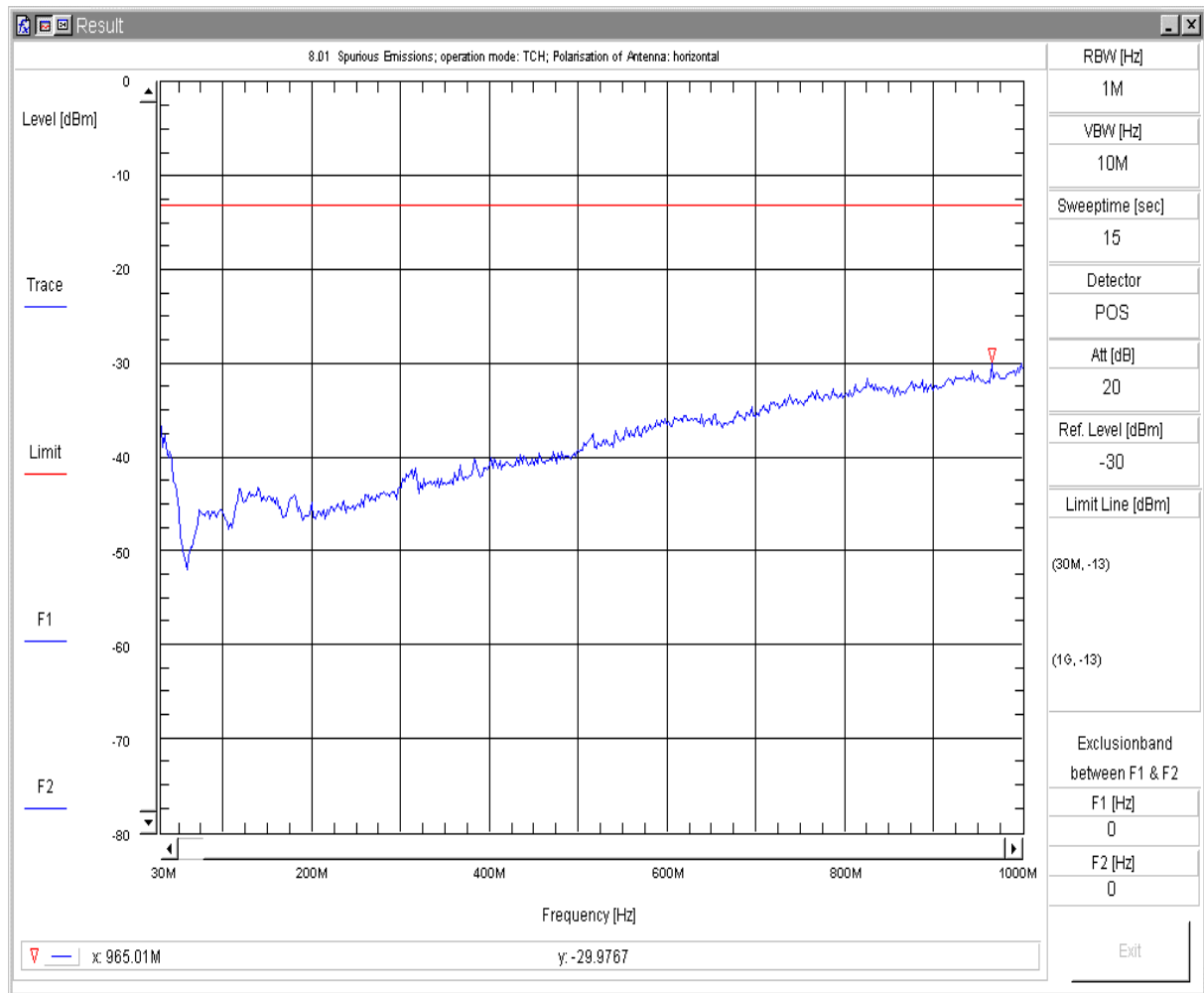
### 8.56 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part22\_850\TD\_TX\_V  
 Sweepnr: Sweep5  
 Pol. of Antenna: vertikal  
 EUT Position: EUT\_vertical+horizontal  
 EUT OP Mode: FCC\_Part22\_850 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 251  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 22:37:33fp

Spurious Emissions V7.1.1

## Diagrams – GSM 1900 mode

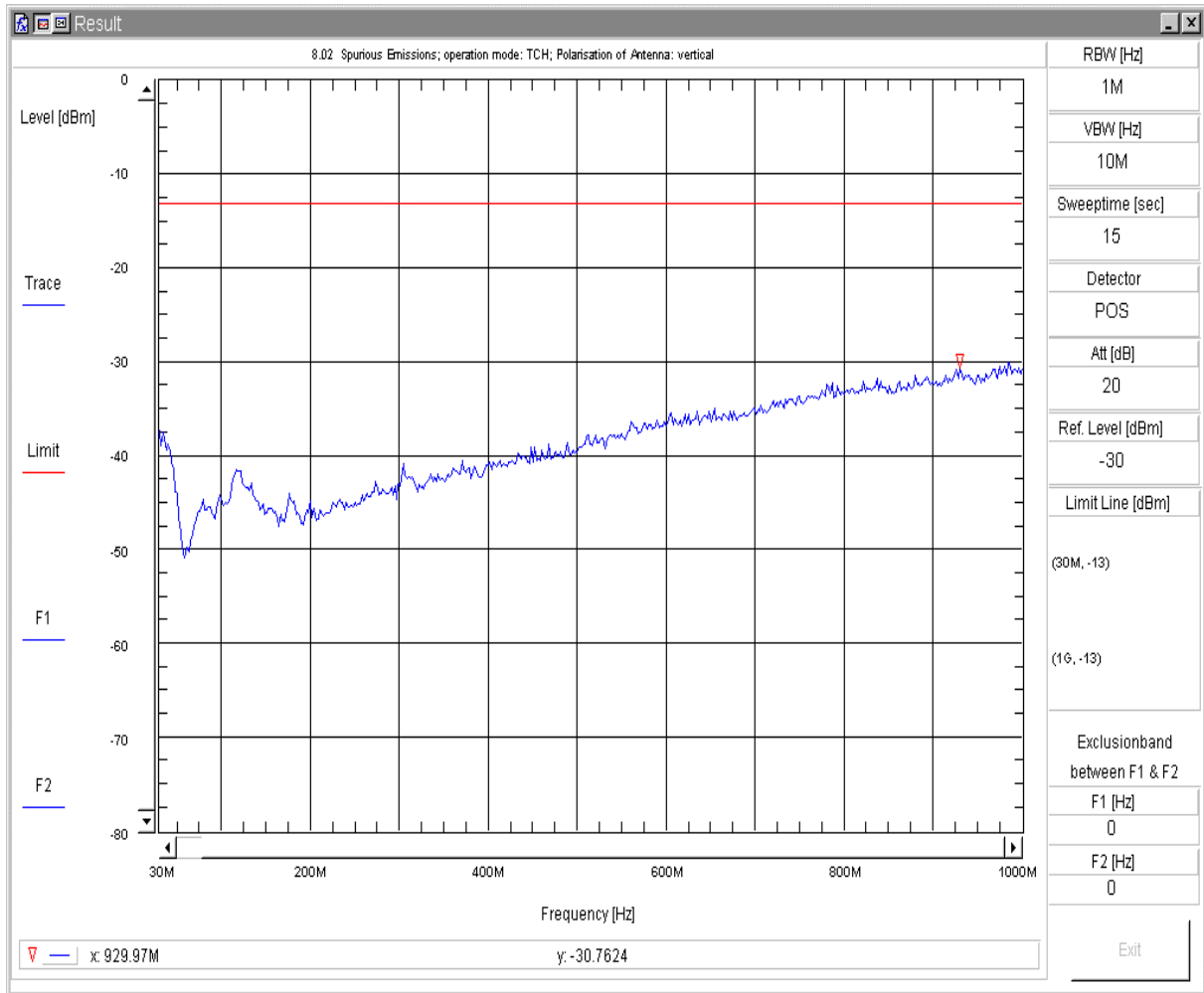


## 8.01 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part24\_1900\TD\_TX\_H  
 Sweepnr: Sweep1  
 Pol. of Antenna: horizontal  
 EUT Position: EUT\_vertical+horizontal  
 EUT OP Mode: FCC\_Part24\_1900 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 512  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 15:21:07ppp

Spurious Emissions V7.1.1

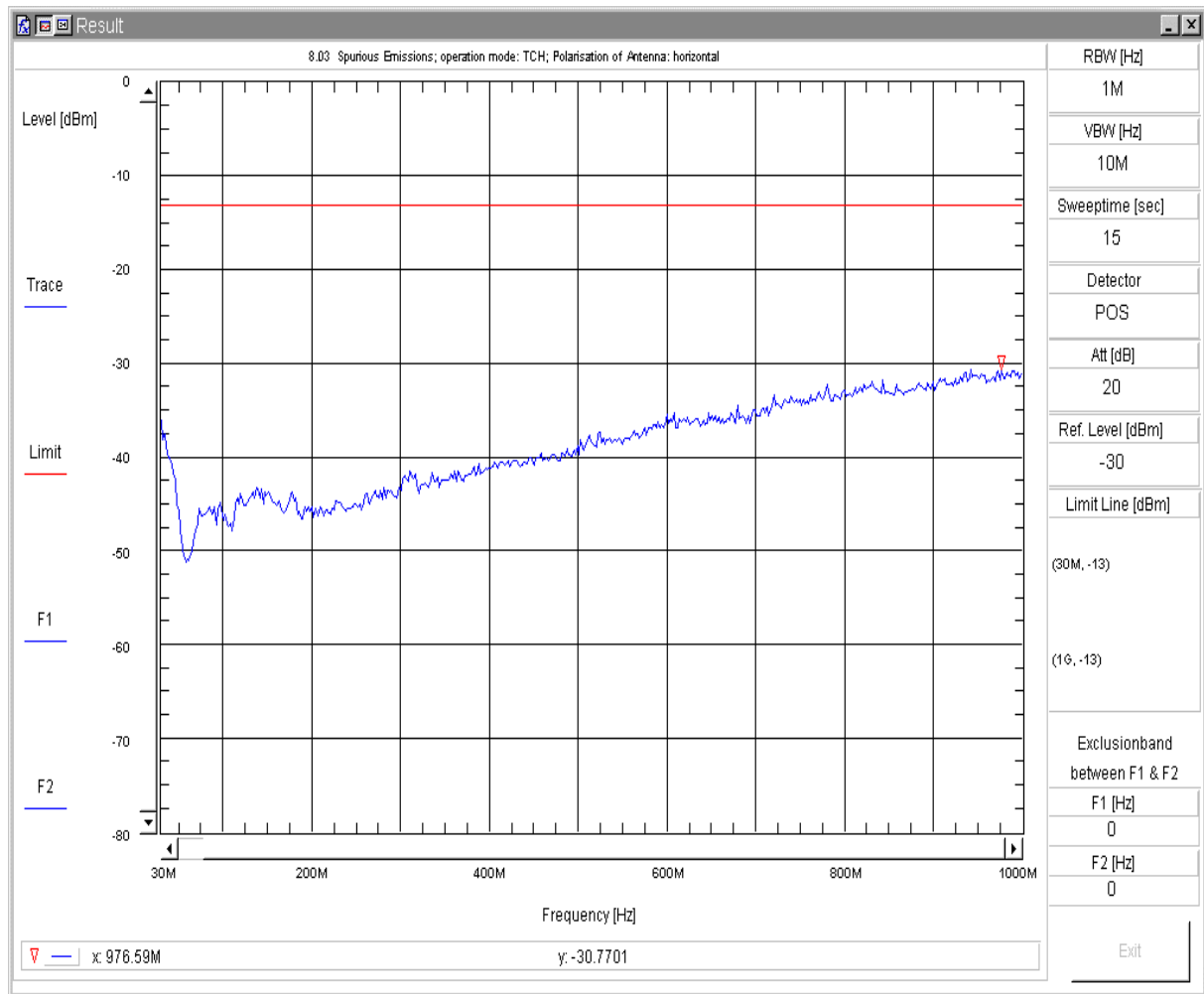


### 8.02 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part24\_1900\TD\_TX\_V  
 Sweepnr: Sweep1  
 Pol. of Antenna: vertikal  
 EUT Position: EUT\_vertikal+horizontal  
 EUT OP Mode: FCC\_Part24\_1900 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 512  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 15:25:04ppf

Spurious Emissions V7.1.1

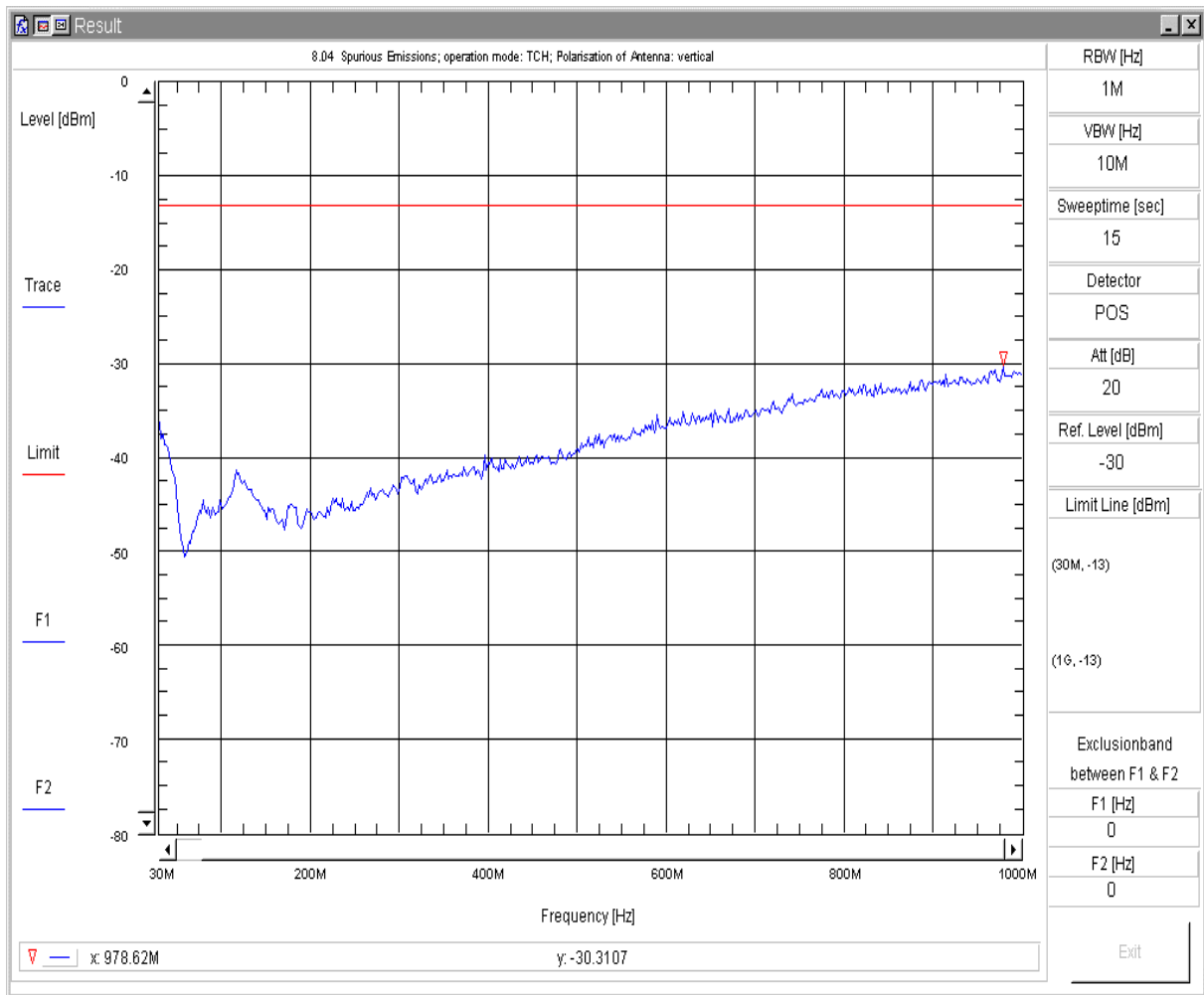


### 8.03 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part24\_1900\TD\_TX\_H  
 Sweepnr: Sweep1  
 Pol. of Antenna: horizontal  
 EUT Position: EUT\_vertical+horizontal  
 EUT OP Mode: FCC\_Part24\_1900 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 661  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 15:30:07ppp

Spurious Emissions V7.1.1



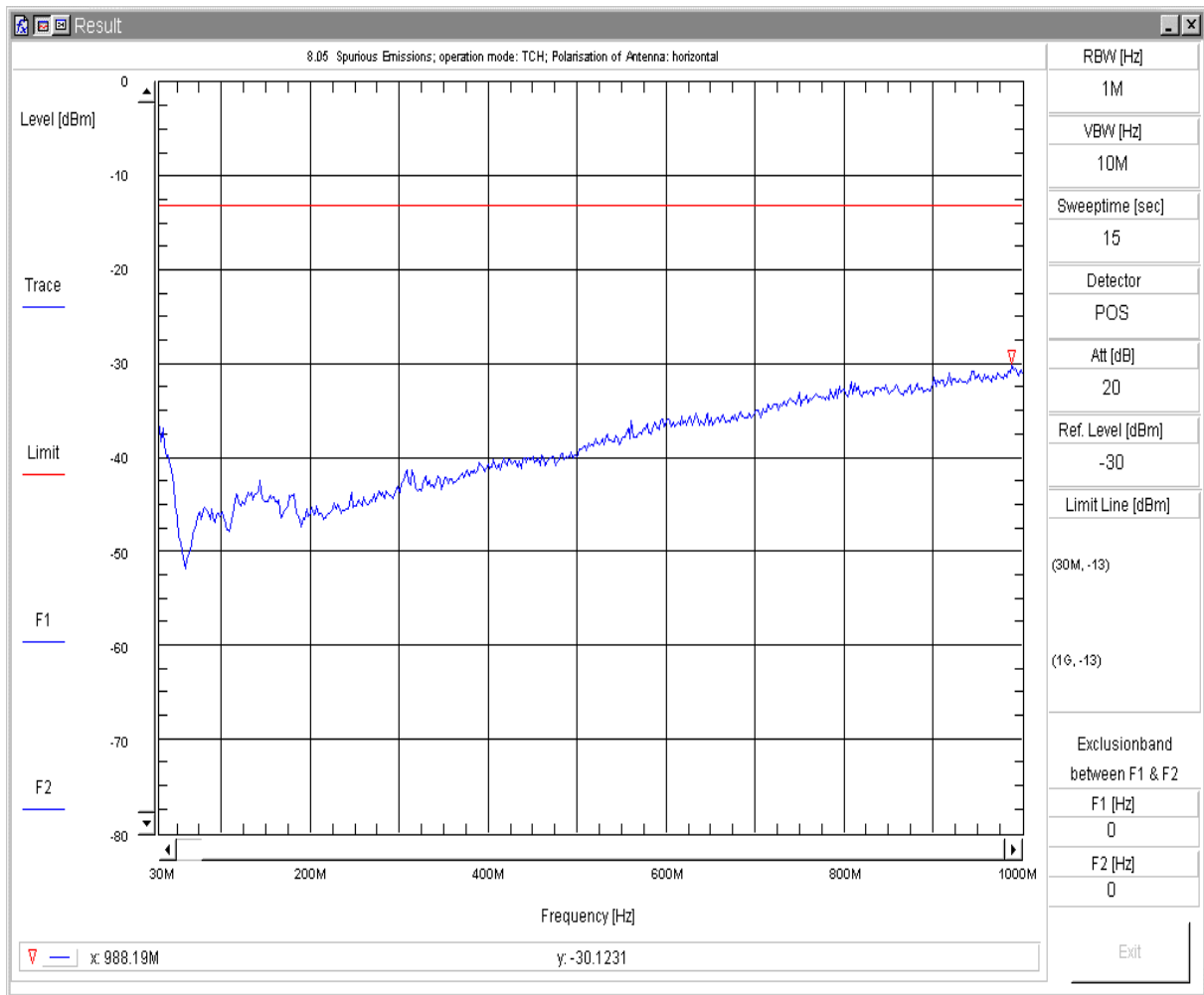
#### 8.04 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part24\_1900\TD\_TX\_V  
 Sweepnr: Sweep1  
 Pol. of Antenna: vertikal  
 EUT Position: EUT\_vertikal+horizontal  
 EUT OP Mode: FCC\_Part24\_1900 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 661  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 15:33:52ppf

Spurious Emissions V7.1.1



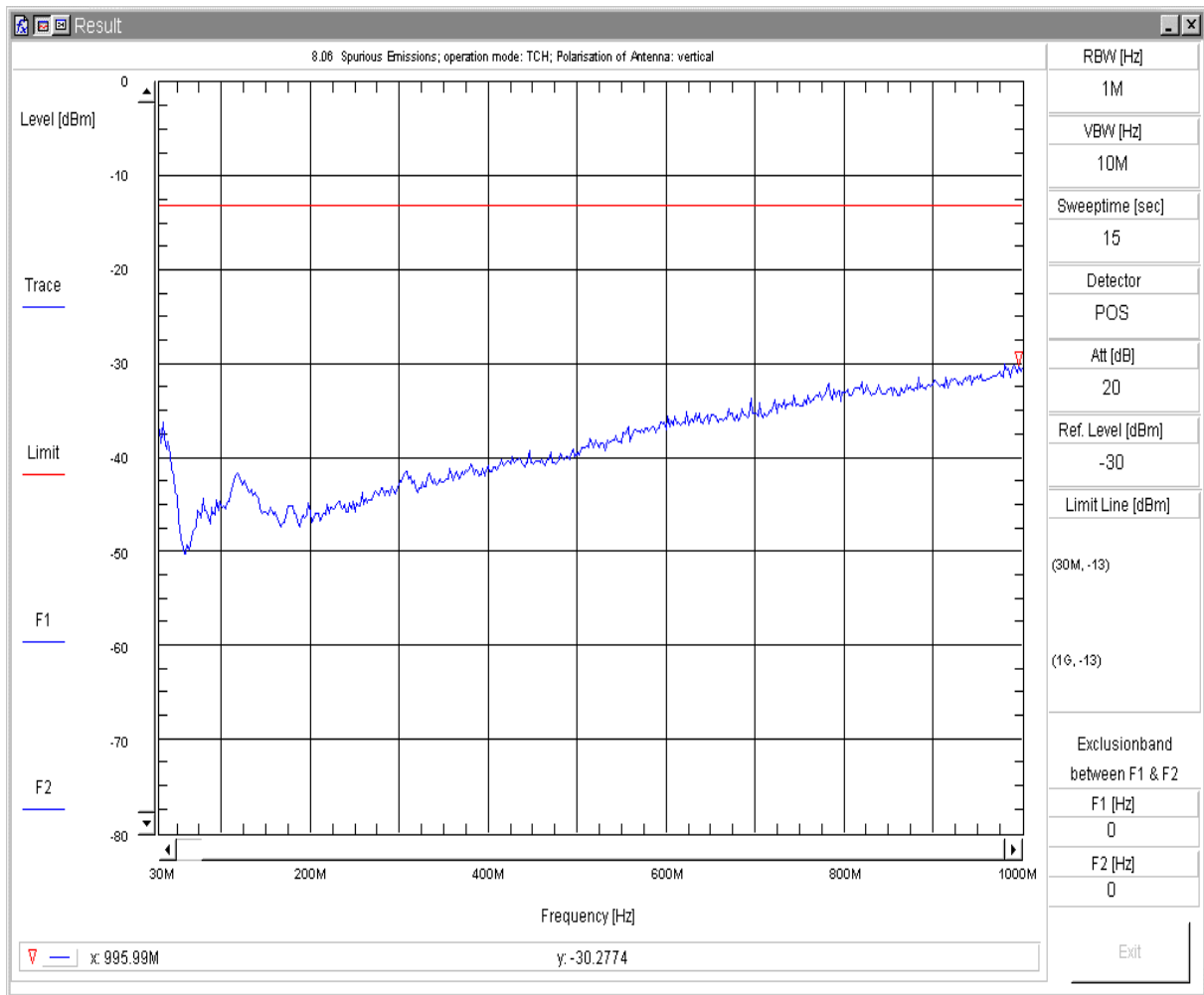


### 8.05 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part24\_1900\TD\_TX\_H  
 Sweepnr: Sweep1  
 Pol. of Antenna: horizontal  
 EUT Position: EUT\_vertical+horizontal  
 EUT OP Mode: FCC\_Part24\_1900 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 810  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 15:38:08ppp

Spurious Emissions V7.1.1

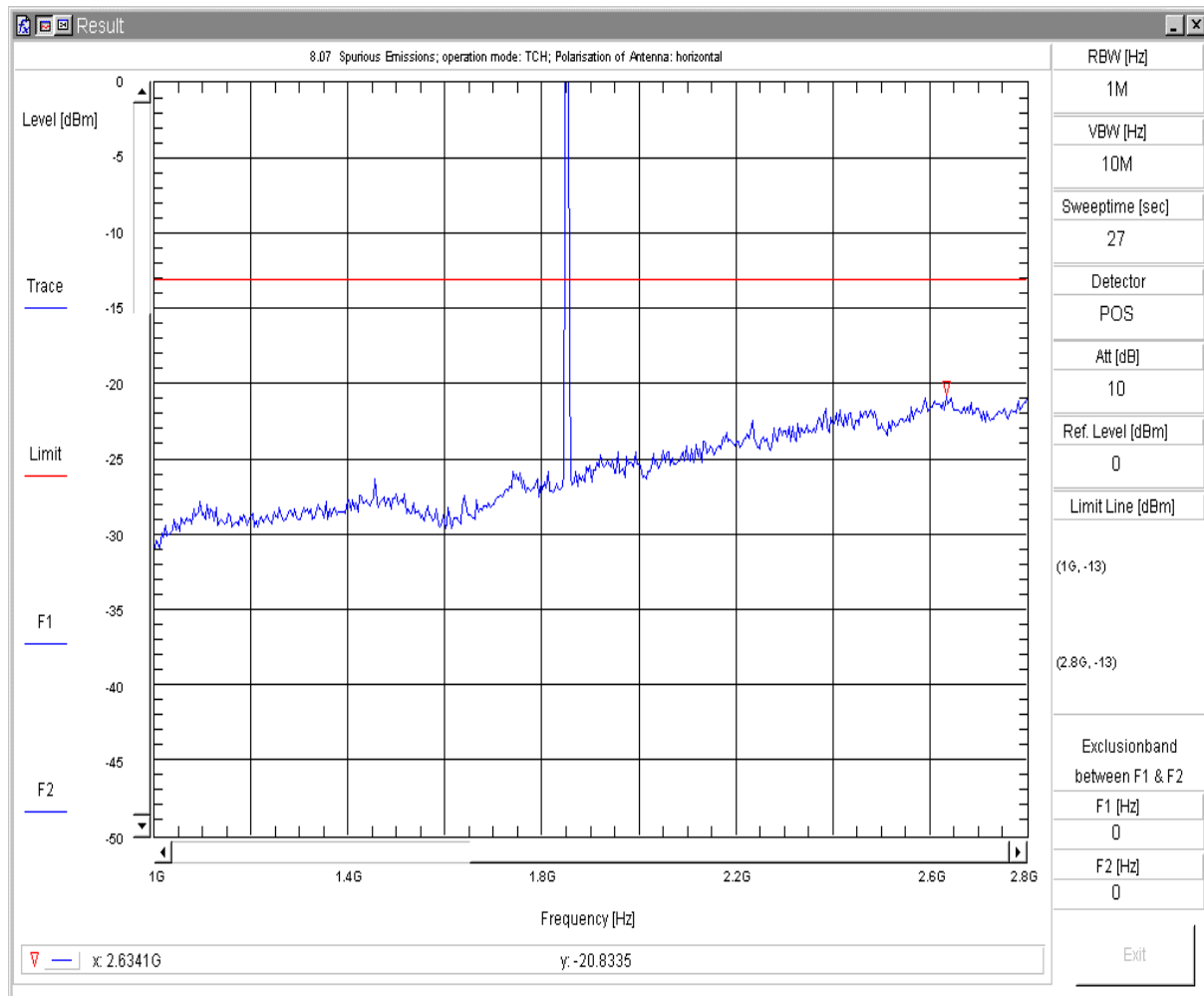


### 8.06 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part24\_1900\TD\_TX\_V  
 Sweepnr: Sweep1  
 Pol. of Antenna: vertikal  
 EUT Position: EUT\_vertikal+horizontal  
 EUT OP Mode: FCC\_Part24\_1900 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 810  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 15:41:58ppf

Spurious Emissions V7.1.1

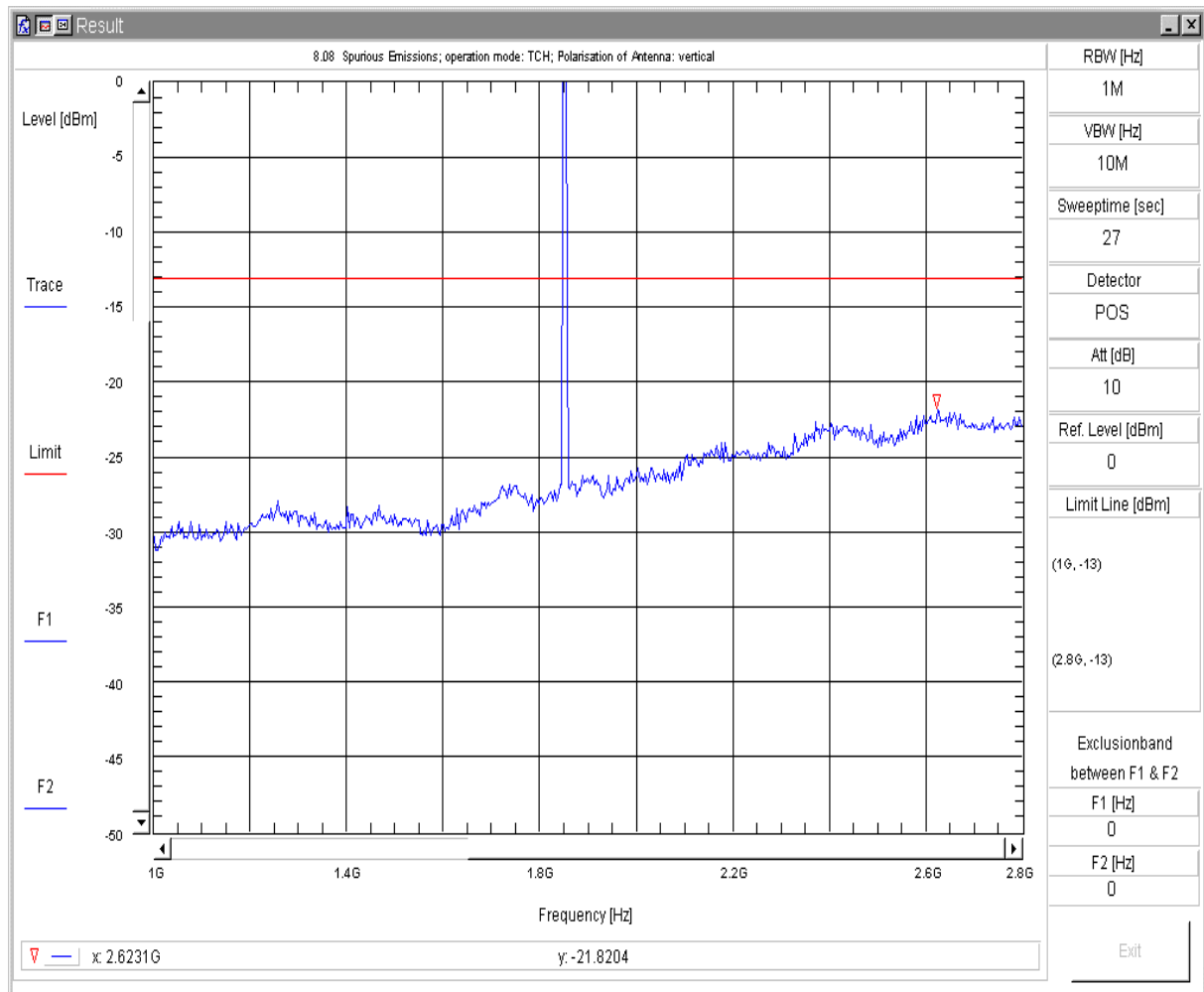


### 8.07 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part24\_1900\TD\_TX\_H  
 Sweepnr: Sweep2  
 Pol. of Antenna: horizontal  
 EUT Position: EUT\_vertical+horizontal  
 EUT OP Mode: FCC\_Part24\_1900 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 512  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 17:19:34pp

Spurious Emissions V7.1.1

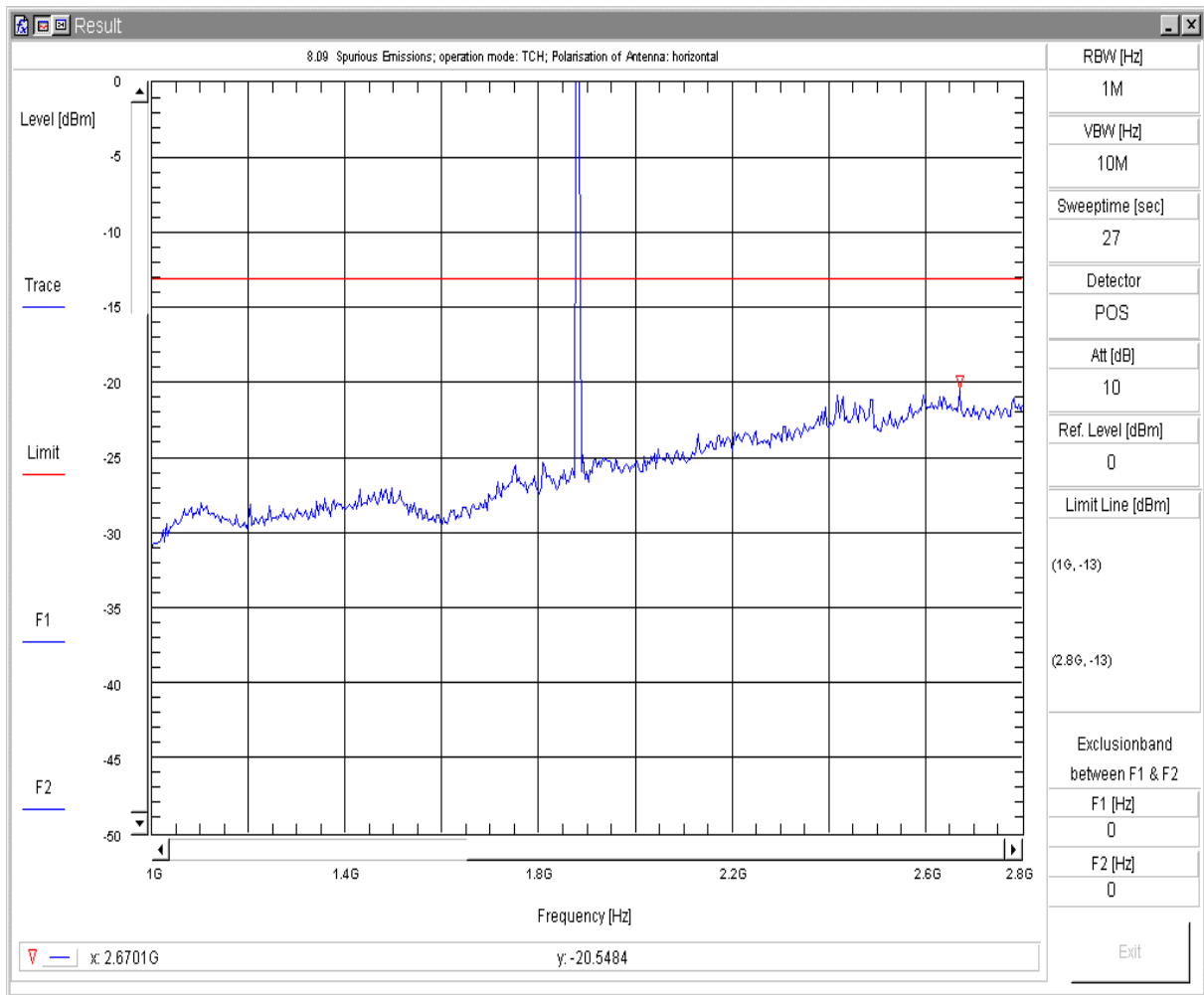


### 8.08 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part24\_1900\TD\_TX\_V  
 Sweepnr: Sweep2  
 Pol. of Antenna: vertikal  
 EUT Position: EUT\_vertikal+horizontal  
 EUT OP Mode: FCC\_Part24\_1900 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 512  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 17:28:59pp

Spurious Emissions V7.1.1

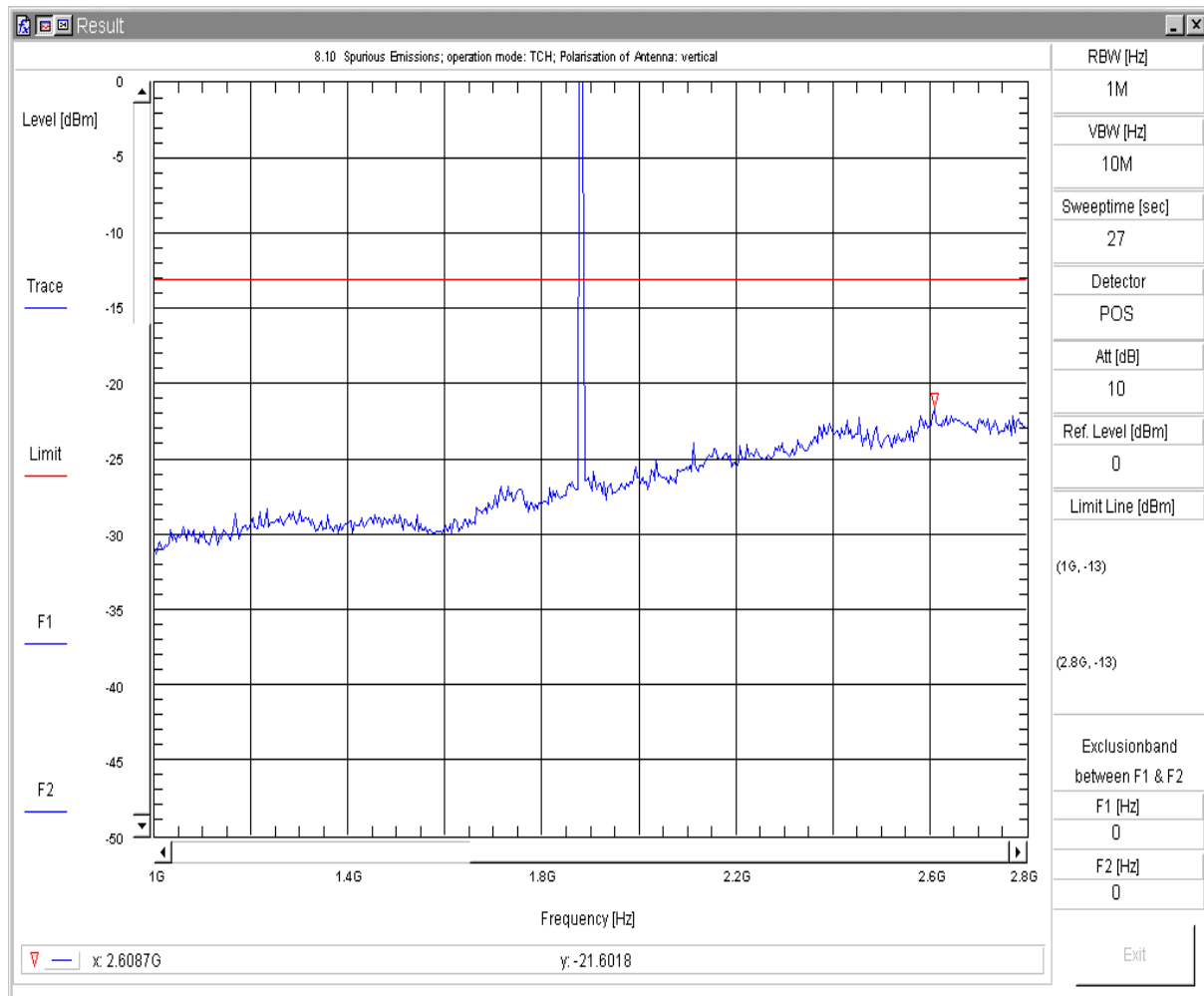


### 8.09 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part24\_1900\TD\_TX\_H  
 Sweepnr: Sweep2  
 Pol. of Antenna: horizontal  
 EUT Position: EUT\_vertical+horizontal  
 EUT OP Mode: FCC\_Part24\_1900 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 661  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 18:43:19pp

Spurious Emissions V7.1.1

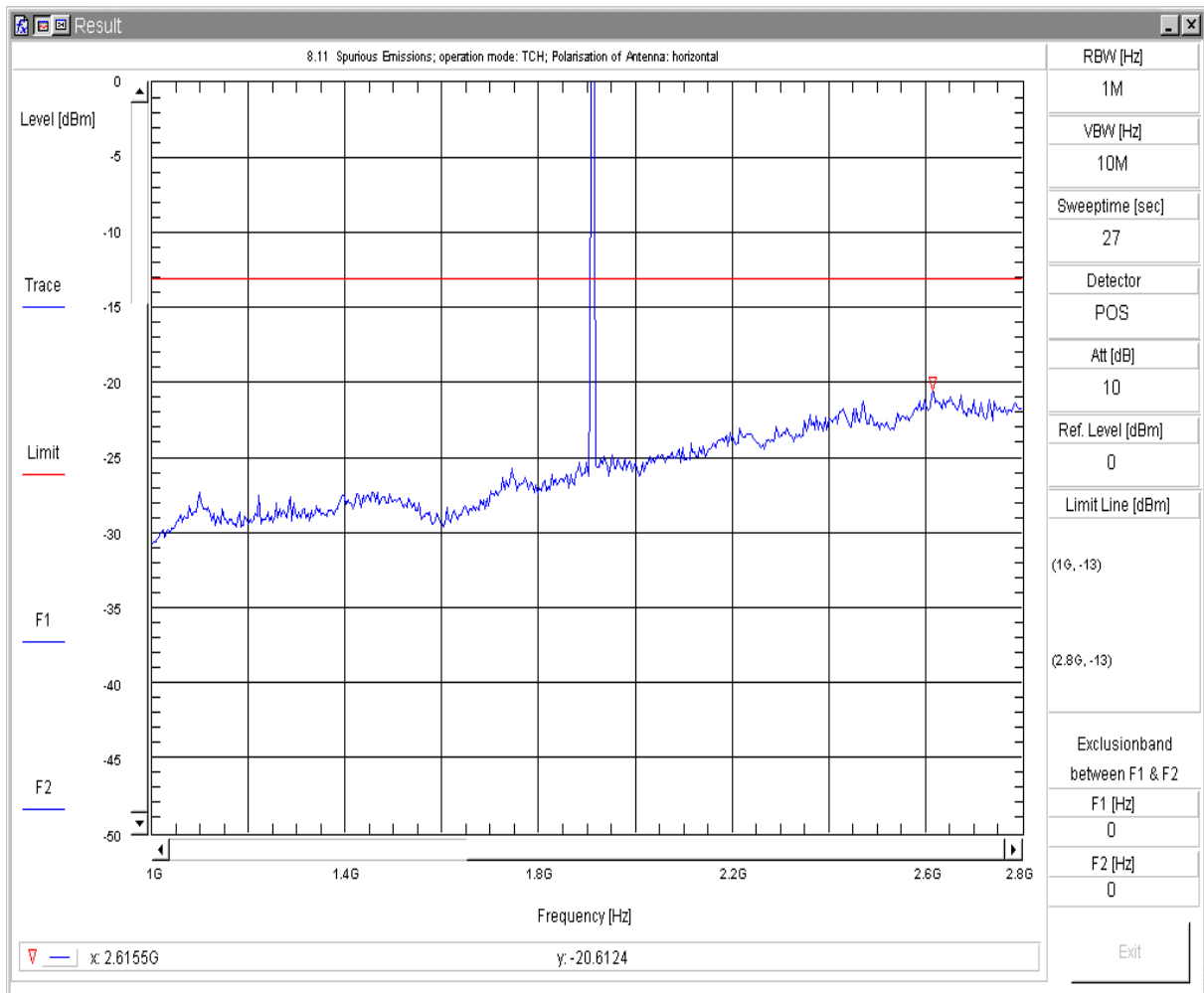


### 8.10 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part24\_1900\TD\_TX\_V  
 Sweepnr: Sweep2  
 Pol. of Antenna: vertikal  
 EUT Position: EUT\_vertikal+horizontal  
 EUT OP Mode: FCC\_Part24\_1900 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 661  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 18:52:41pp

Spurious Emissions V7.1.1

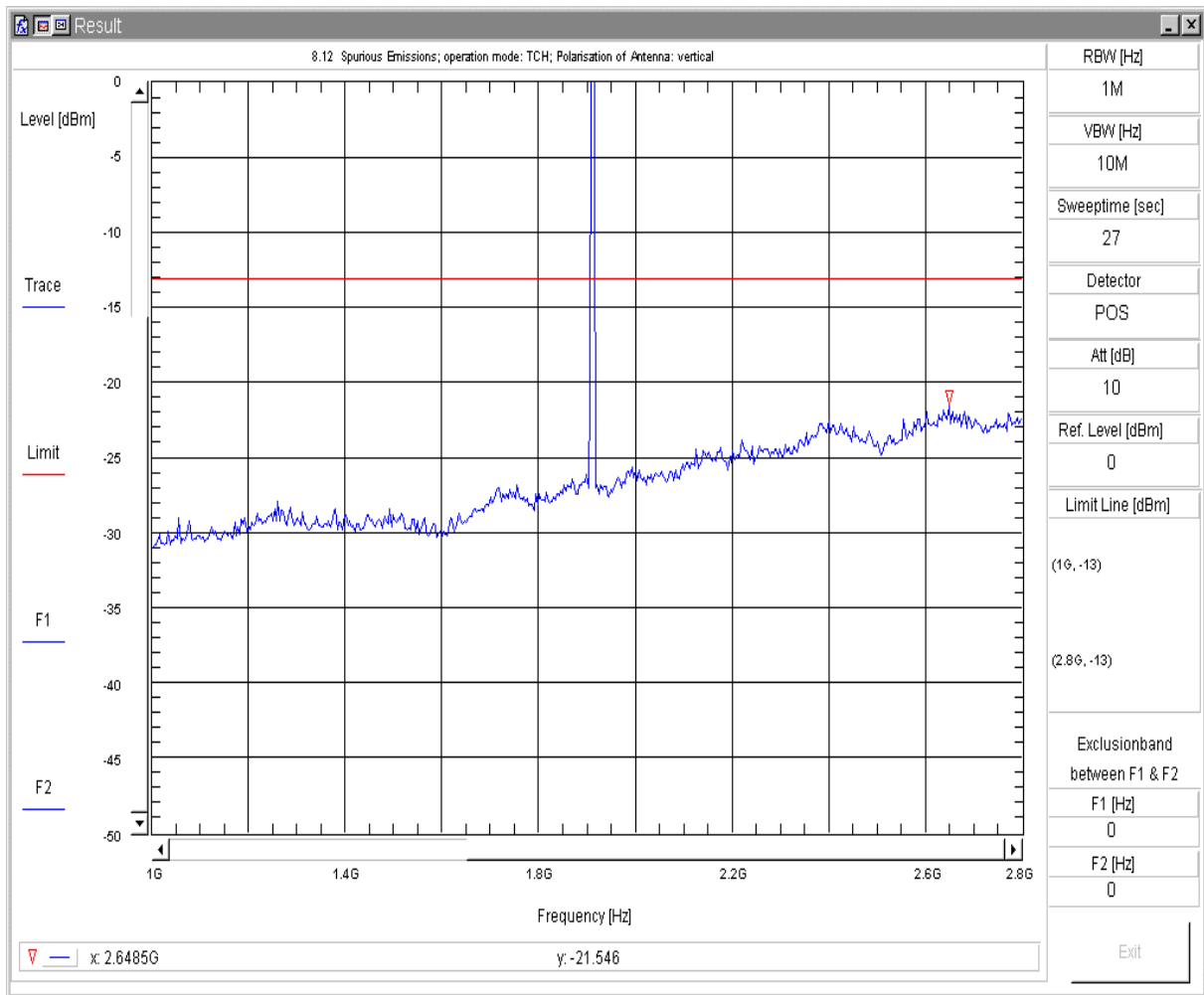


### 8.11 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part24\_1900\TD\_TX\_H  
 Sweepnr: Sweep2  
 Pol. of Antenna: horizontal  
 EUT Position: EUT\_vertical+horizontal  
 EUT OP Mode: FCC\_Part24\_1900 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 810  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 15:46:17pp

Spurious Emissions V7.1.1



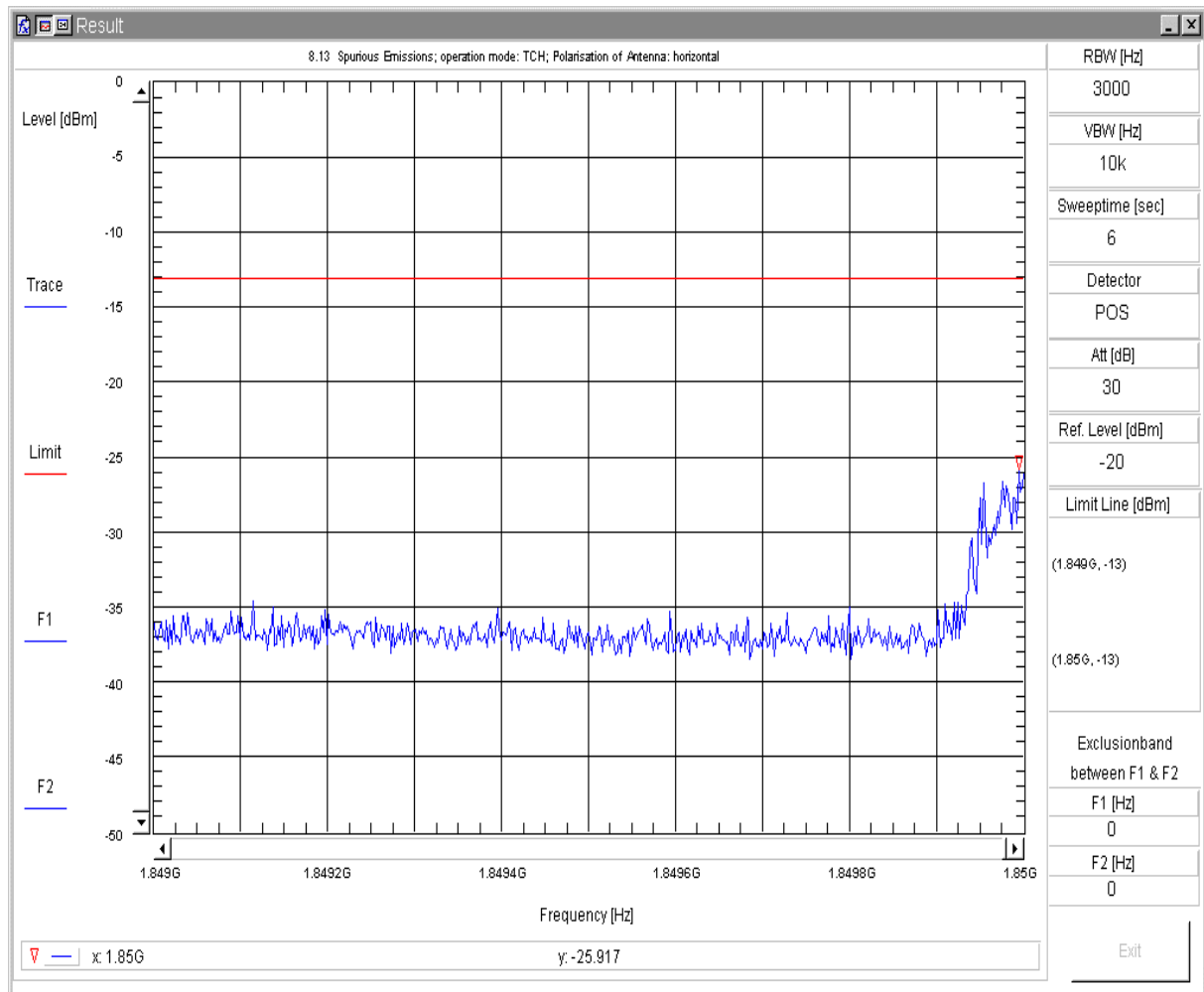
### 8.12 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part24\_1900\TD\_TX\_V  
 Sweepnr: Sweep2  
 Pol. of Antenna: vertikal  
 EUT Position: EUT\_vertikal+horizontal  
 EUT OP Mode: FCC\_Part24\_1900 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 810  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 15:56:01pp

Spurious Emissions V7.1.1



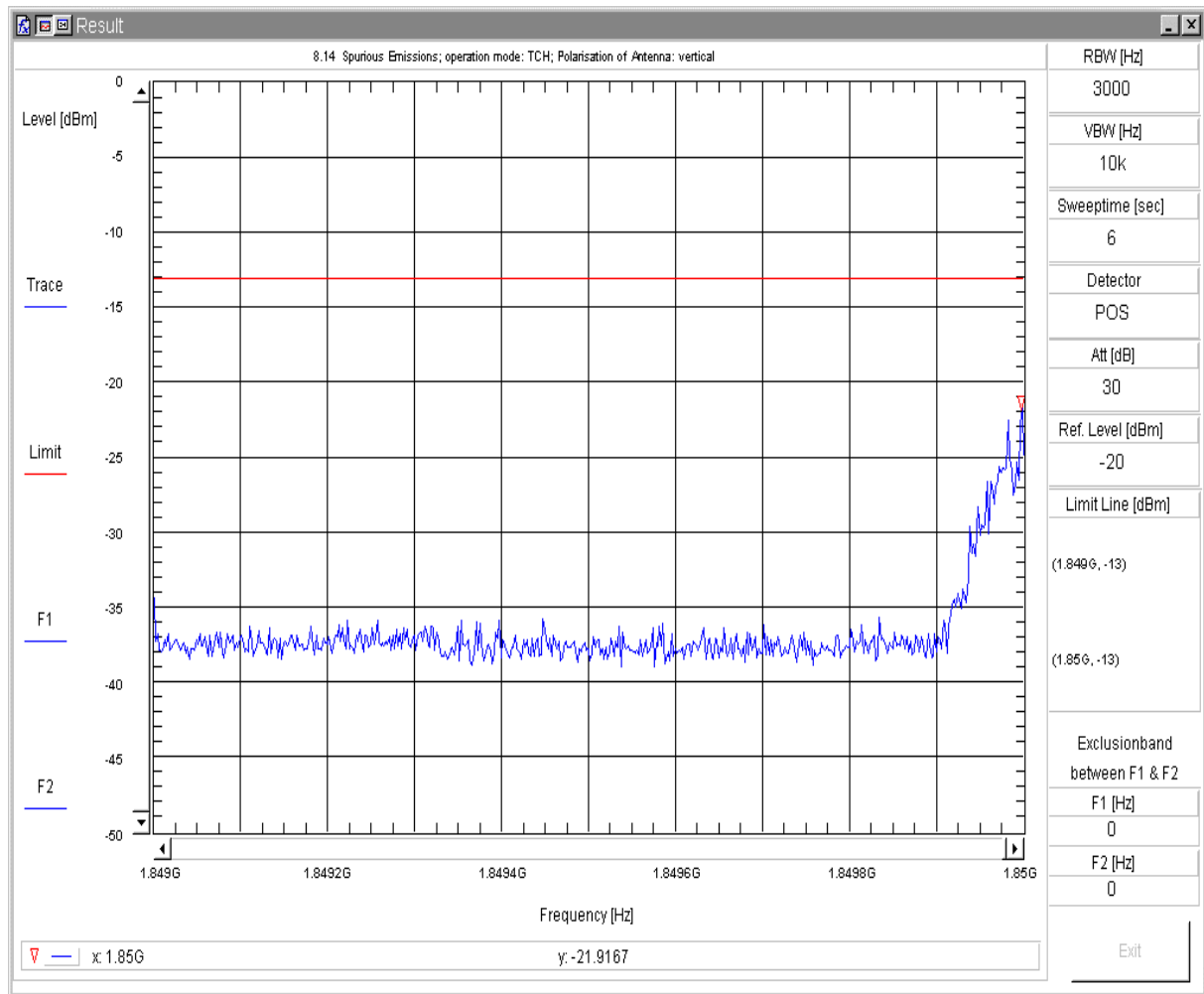


### 8.13 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part24\_1900\TD\_TX\_H  
 Sweepnr: Sweep3  
 Pol. of Antenna: horizontal  
 EUT Position: EUT\_vertical+horizontal  
 EUT OP Mode: FCC\_Part24\_1900 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 512  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 17:47:48pp

Spurious Emissions V7.1.1

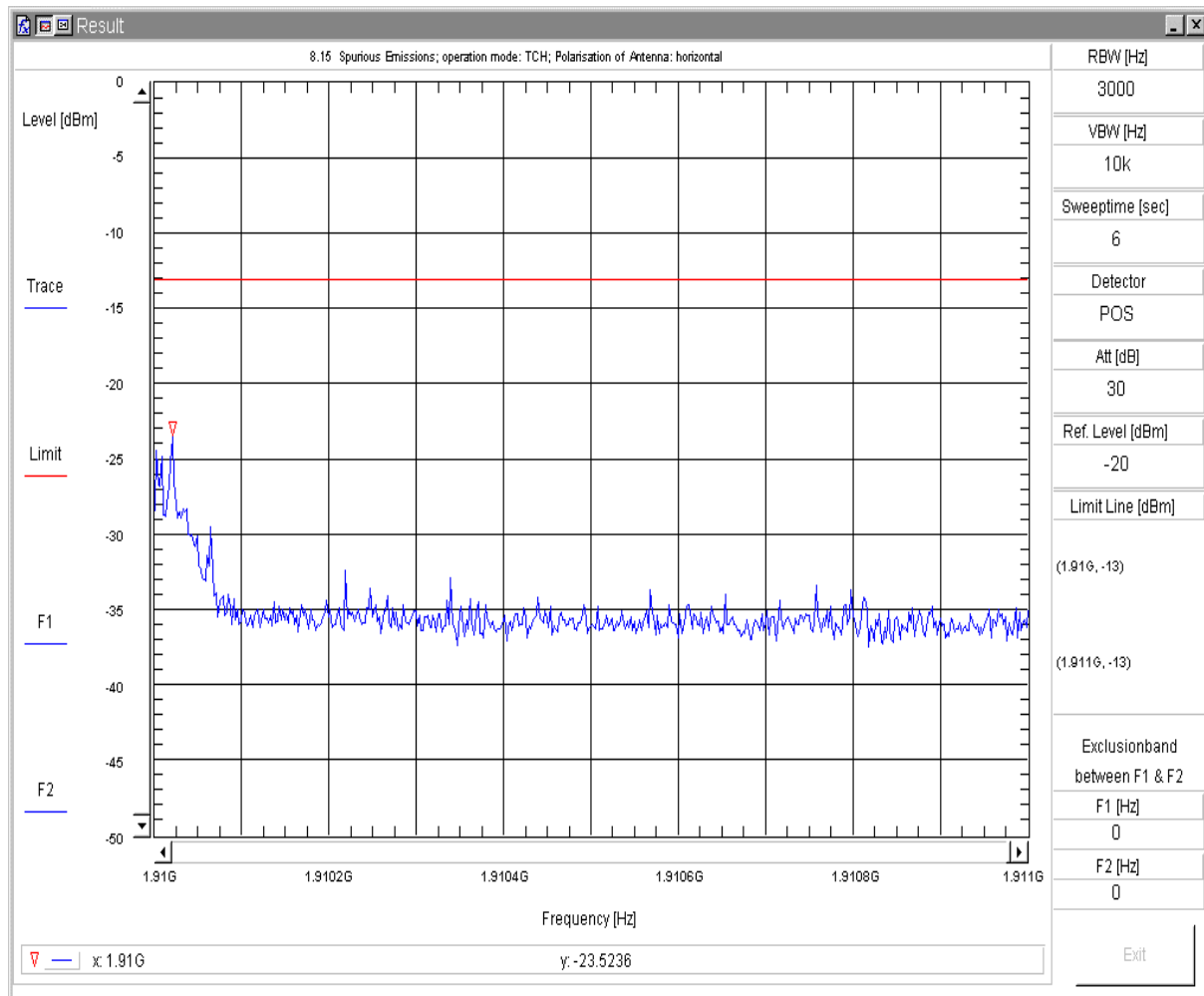


#### 8.14 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part24\_1900\TD\_TX\_V  
 Sweepnr: Sweep3  
 Pol. of Antenna: vertikal  
 EUT Position: EUT\_vertikal+horizontal  
 EUT OP Mode: FCC\_Part24\_1900 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 512  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 17:52:00pp

Spurious Emissions V7.1.1

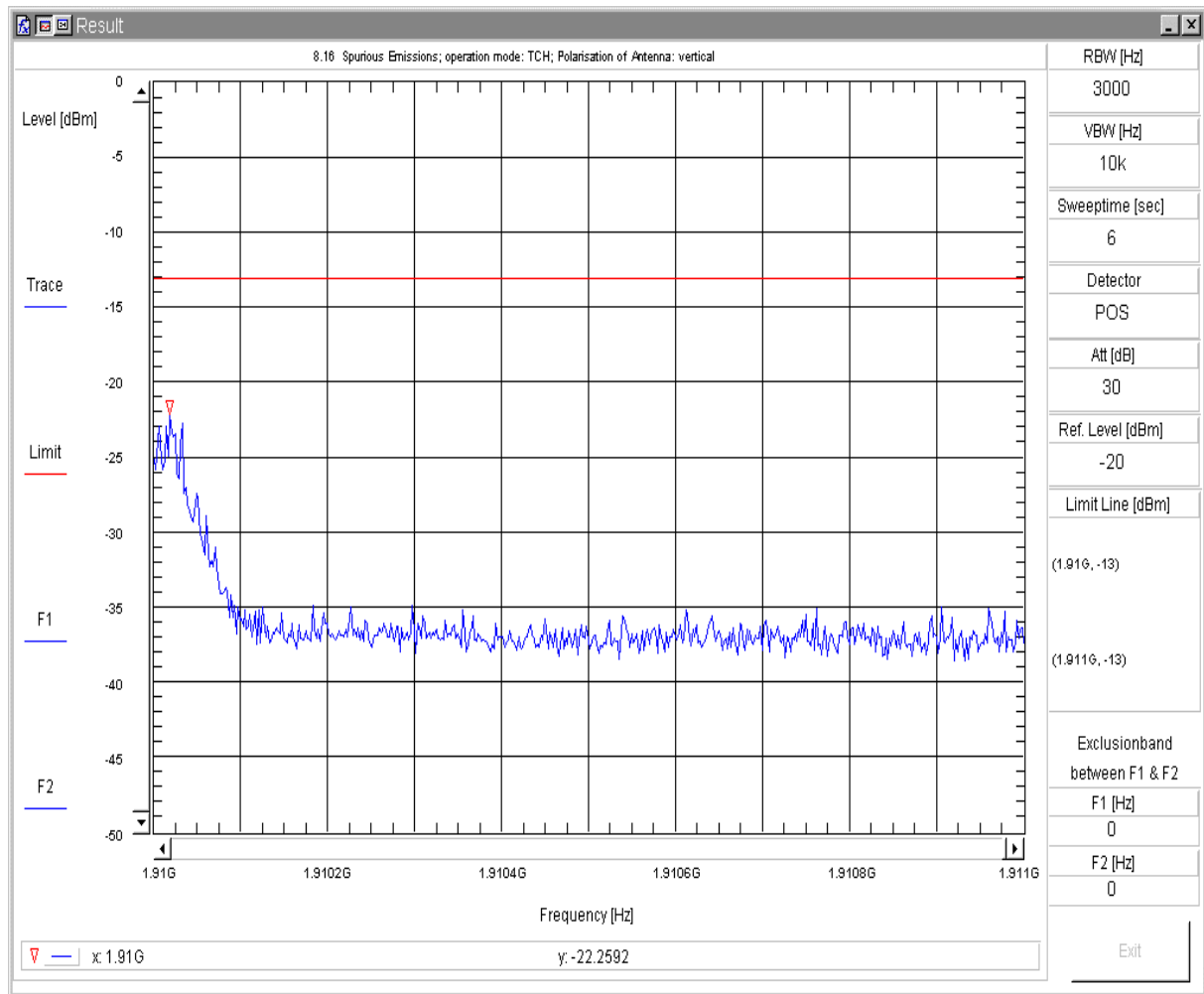


8.15 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part24\_1900\TD\_TX\_H  
 Sweepnr: Sweep4  
 Pol. of Antenna: horizontal  
 EUT Position: EUT\_vertical+horizontal  
 EUT OP Mode: FCC\_Part24\_1900 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 810  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 16:05:58pp

Spurious Emissions V7.1.1

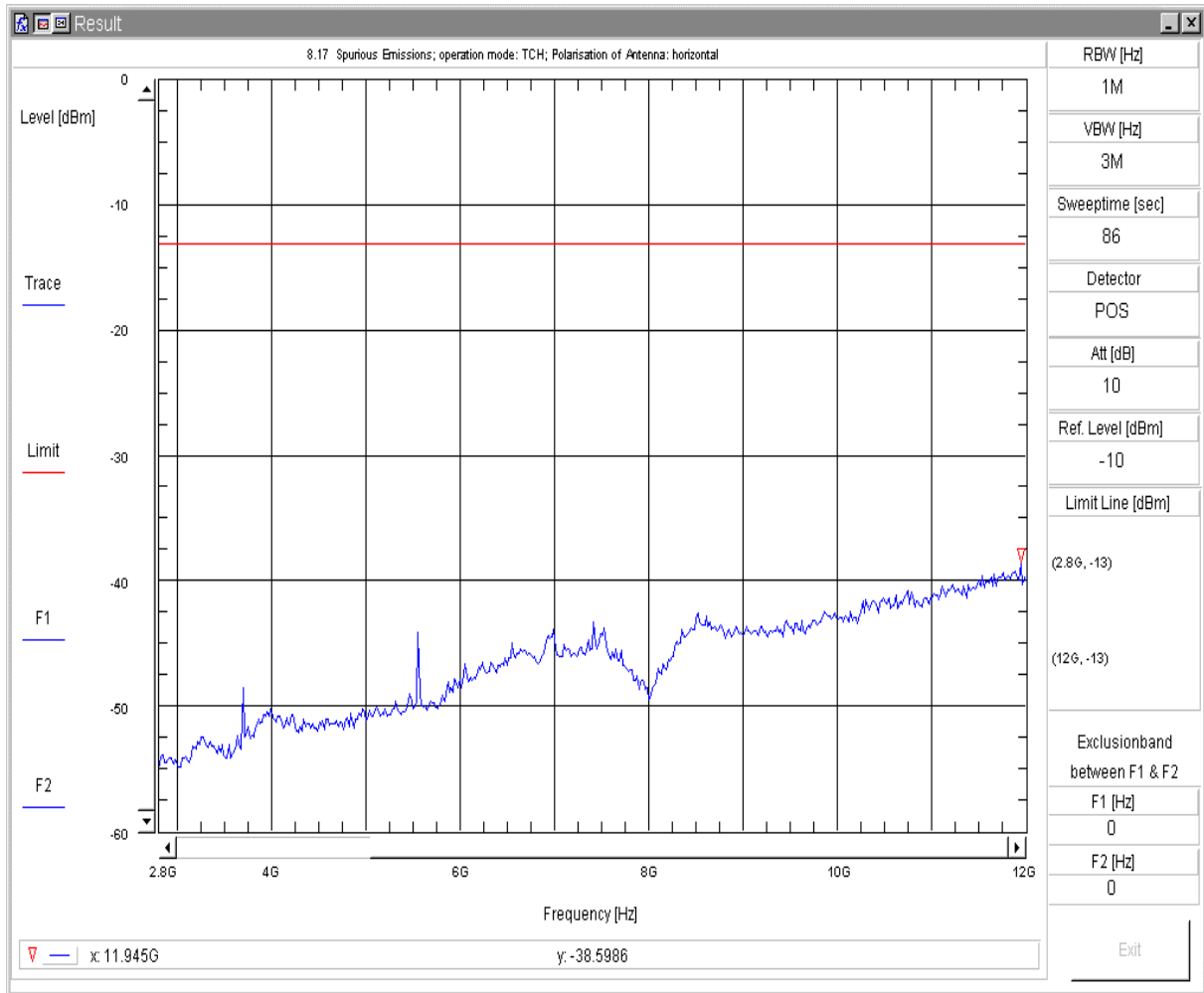


### 8.16 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part24\_1900\TD\_TX\_V  
 Sweepnr: Sweep4  
 Pol. of Antenna: vertikal  
 EUT Position: EUT\_vertikal+horizontal  
 EUT OP Mode: FCC\_Part24\_1900 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 810  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 16:10:10pp

Spurious Emissions V7.1.1

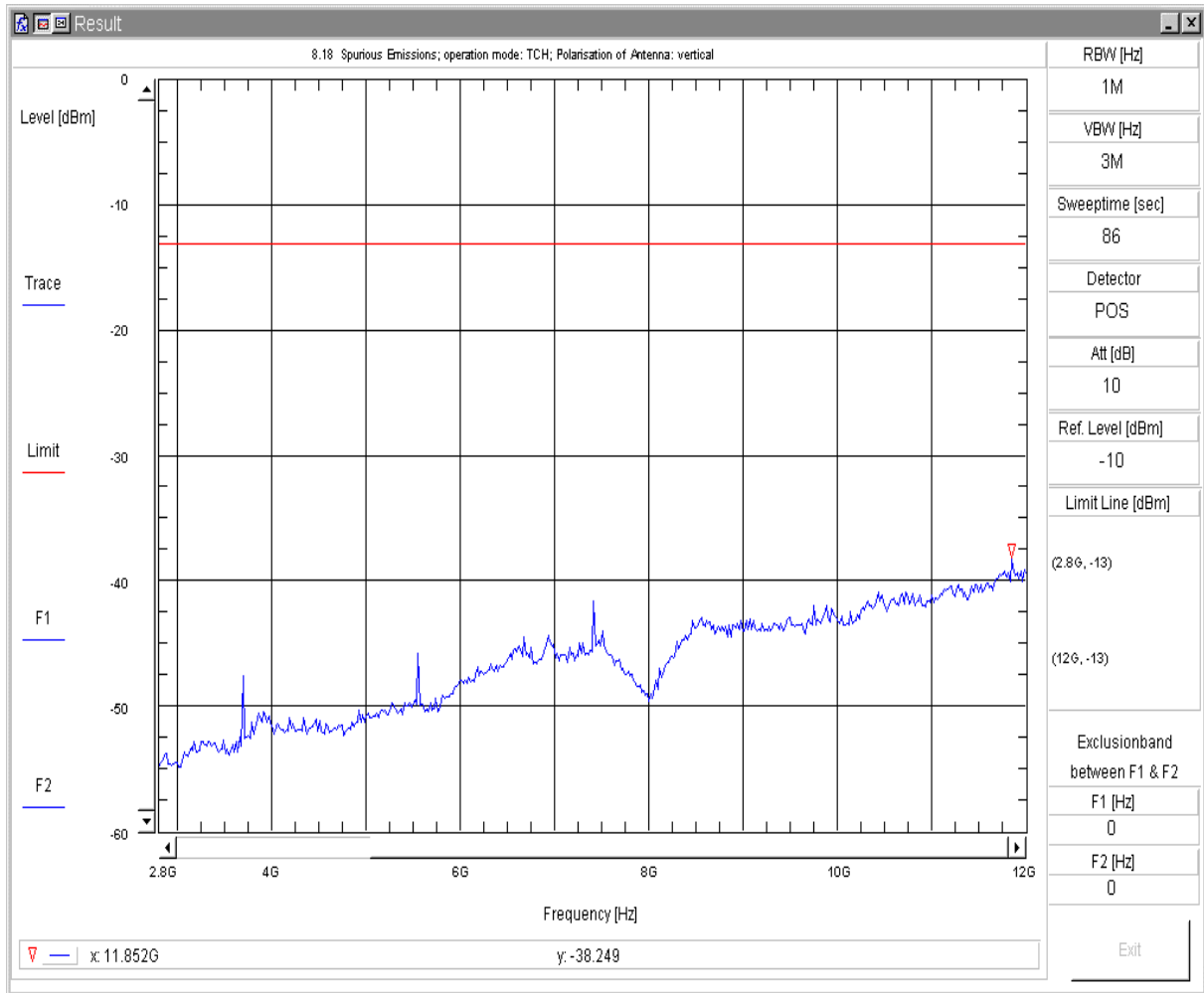


### 8.17 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part24\_1900\TD\_TX\_H  
 Sweepnr: Sweep5  
 Pol. of Antenna: horizontal  
 EUT Position: EUT\_vertical+horizontal  
 EUT OP Mode: FCC\_Part24\_1900 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 512  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 17:56:20fp

Spurious Emissions V7.1.1

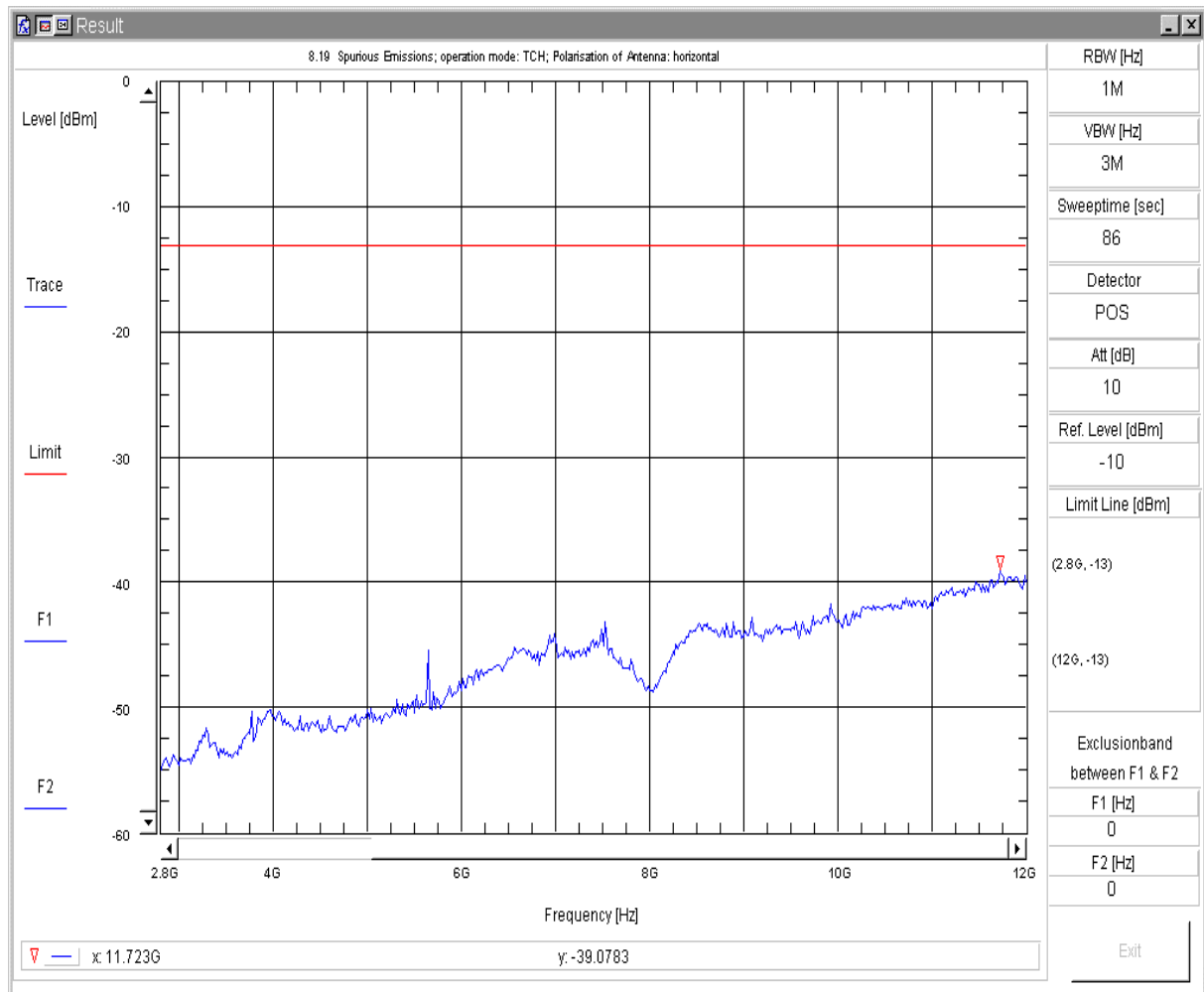


### 8.18 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part24\_1900\TD\_TX\_V  
 Sweepnr: Sweep5  
 Pol. of Antenna: vertikal  
 EUT Position: EUT\_vertikal+horizontal  
 EUT OP Mode: FCC\_Part24\_1900 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 512  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 18:19:30fp

Spurious Emissions V7.1.1

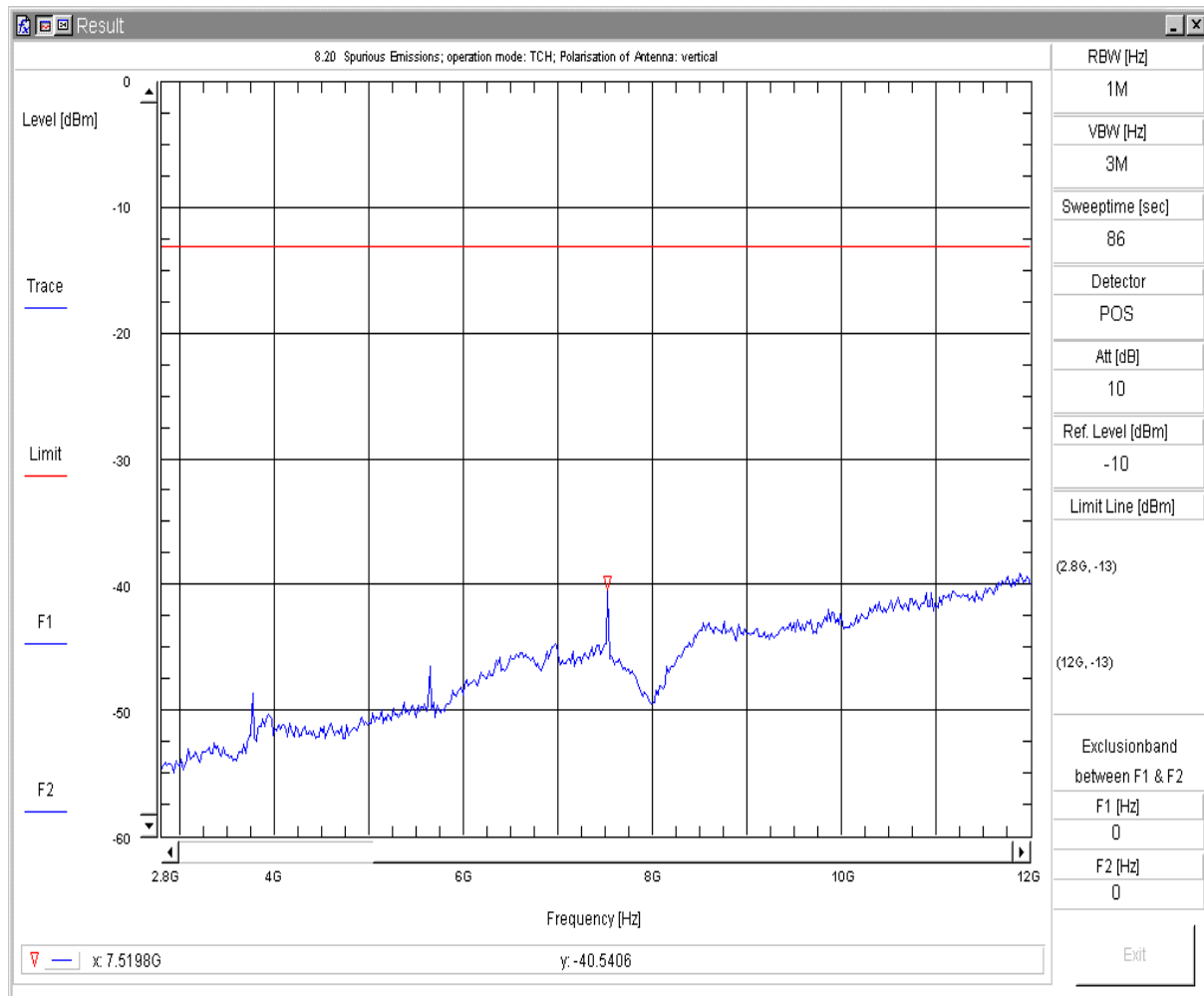


### 8.19 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part24\_1900\TD\_TX\_H  
 Sweepnr: Sweep5  
 Pol. of Antenna: horizontal  
 EUT Position: EUT\_vertical+horizontal  
 EUT OP Mode: FCC\_Part24\_1900 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 661  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 19:05:46fp

Spurious Emissions V7.1.1



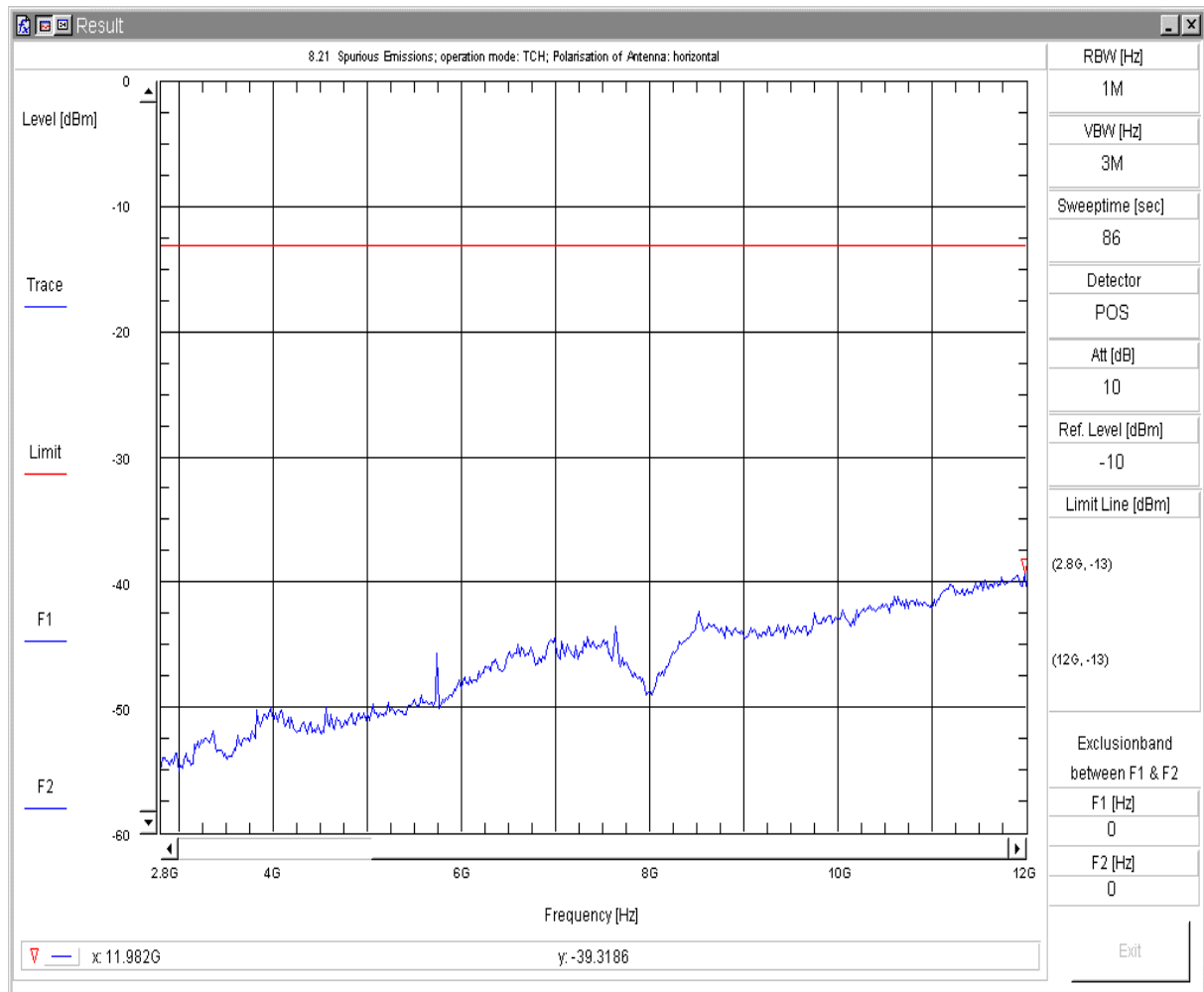
### 8.20 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part24\_1900\TD\_TX\_V  
 Sweepnr: Sweep5  
 Pol. of Antenna: vertikal  
 EUT Position: EUT\_vertical+horizontal  
 EUT OP Mode: FCC\_Part24\_1900 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 661  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 19:29:09fp

Spurious Emissions V7.1.1



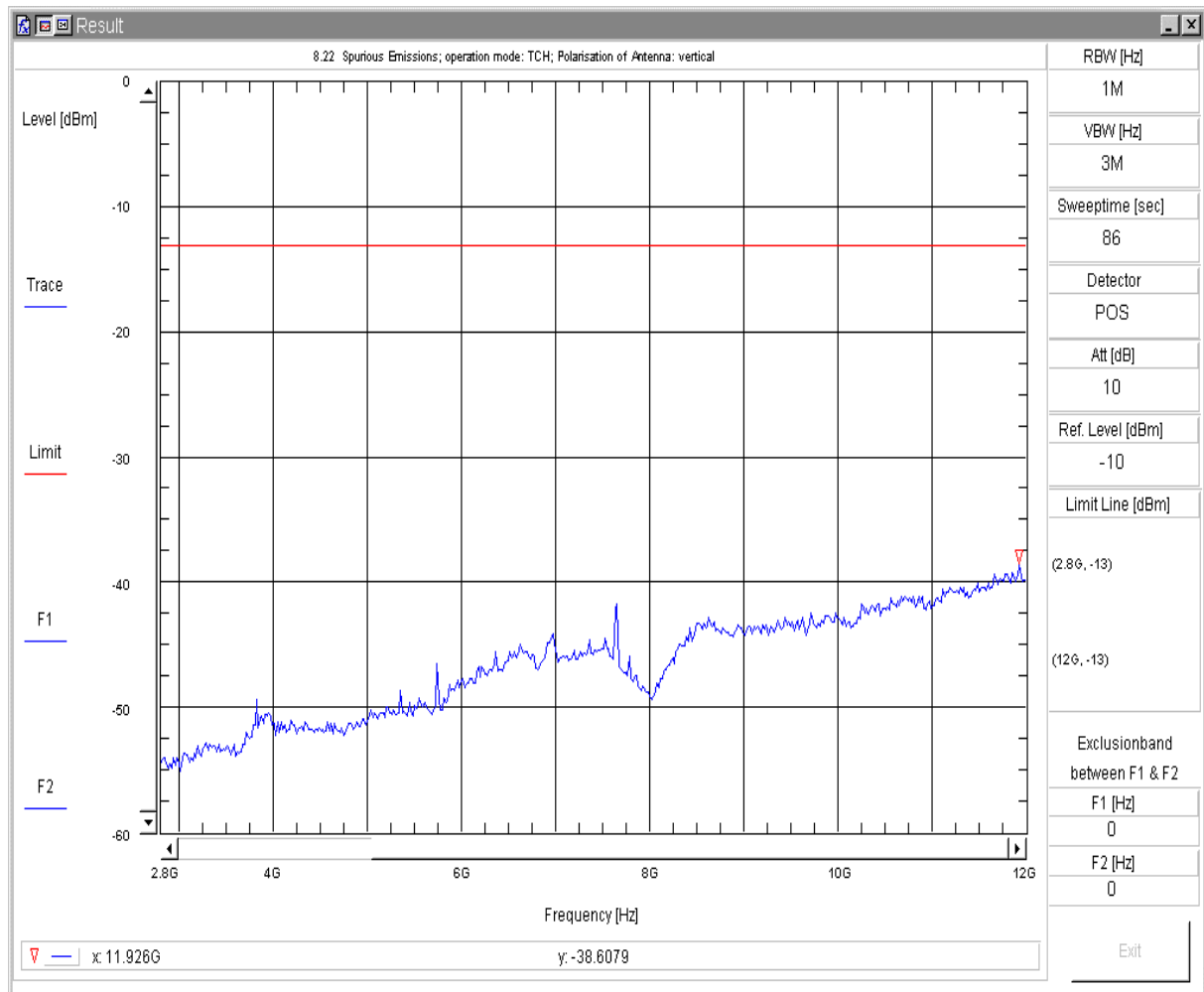


### 8.21 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part24\_1900\TD\_TX\_H  
 Sweepnr: Sweep5  
 Pol. of Antenna: horizontal  
 EUT Position: EUT\_vertical+horizontal  
 EUT OP Mode: FCC\_Part24\_1900 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 810  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 16:15:01fp

Spurious Emissions V7.1.1



### 8.22 Radiated Spurious Emission

Transducer: c:\vee\_user\spuri\_V7\FCC\_Part24\_1900\TD\_TX\_V  
 Sweepnr: Sweep5  
 Pol. of Antenna: vertikal  
 EUT Position: EUT\_vertical+horizontal  
 EUT OP Mode: FCC\_Part24\_1900 TCH  
 EUT Description: Deimos + Cradle + Ext. antenna  
 EUT Hardware: 5.0  
 EUT Software:  
 EUT Config:  
 EUT S/N:  
 Battery: Power Supply (external); Nominal Voltage; 3.7 VDC  
 Remark: Channel 810  
 Operator: x\_Hol  
 Testing Site: Fully Anechoic Room (FAR); CETECOM Essen

Tue 16/Dec/2008 16:38:30fp

Spurious Emissions V7.1.1

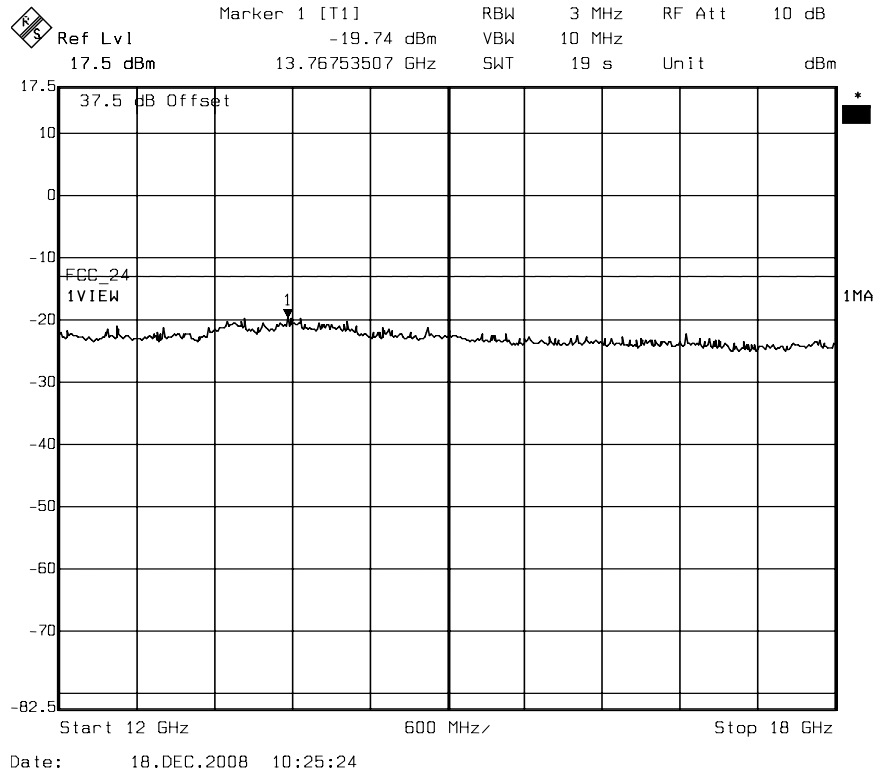


Diagram 8.23 – Channel 512 Horizontal

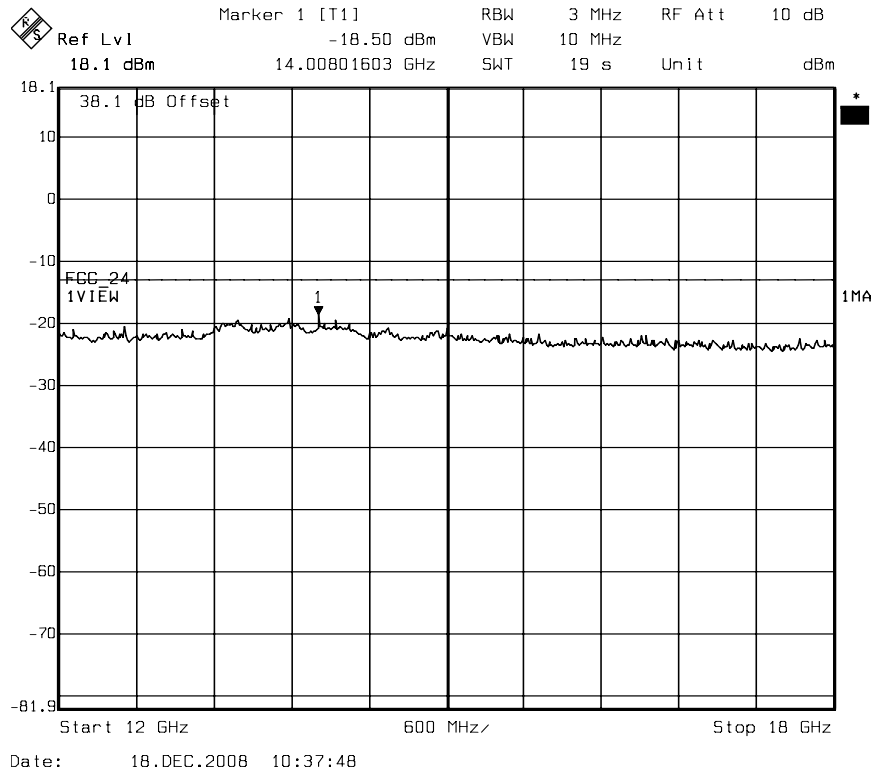


Diagram 8.24 – Channel 512 Vertical

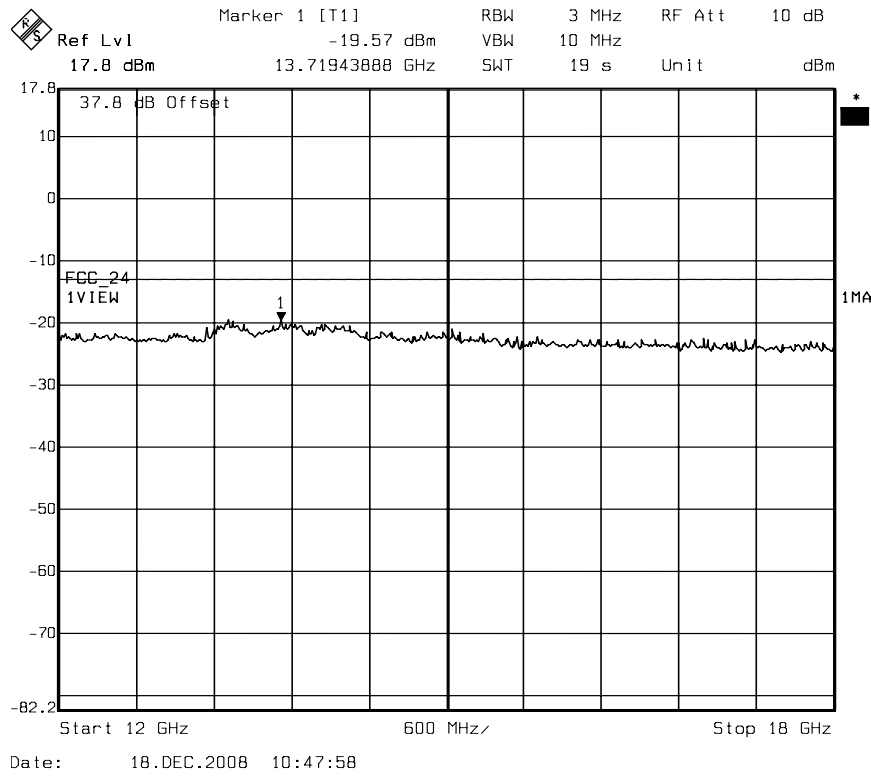


Diagram 8.25 – Channel 661 Horizontal

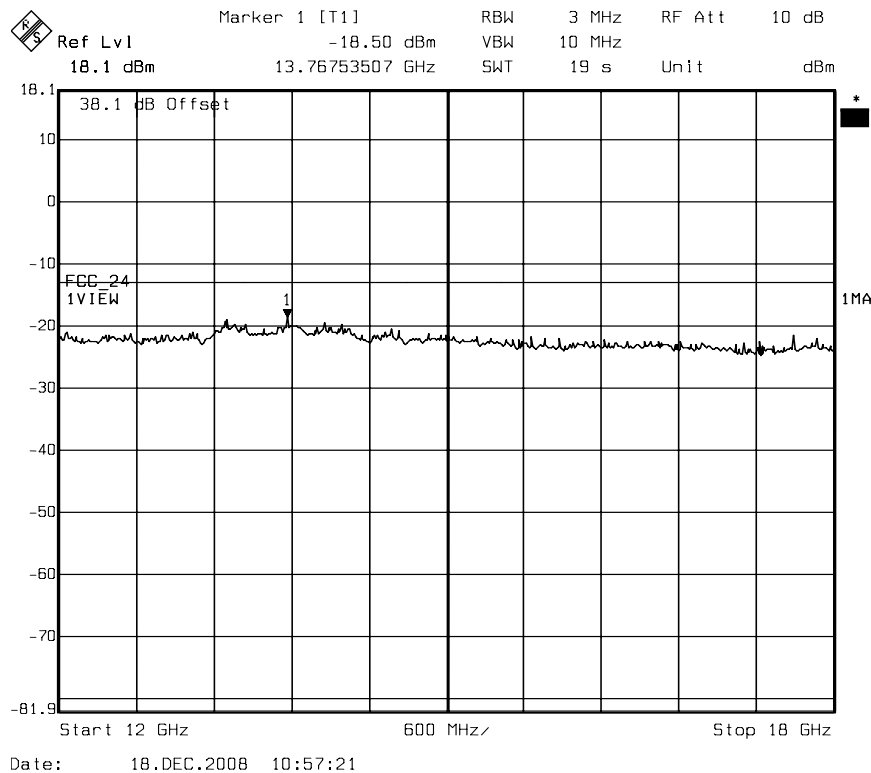


Diagram 8.26 – Channel 661 Vertical

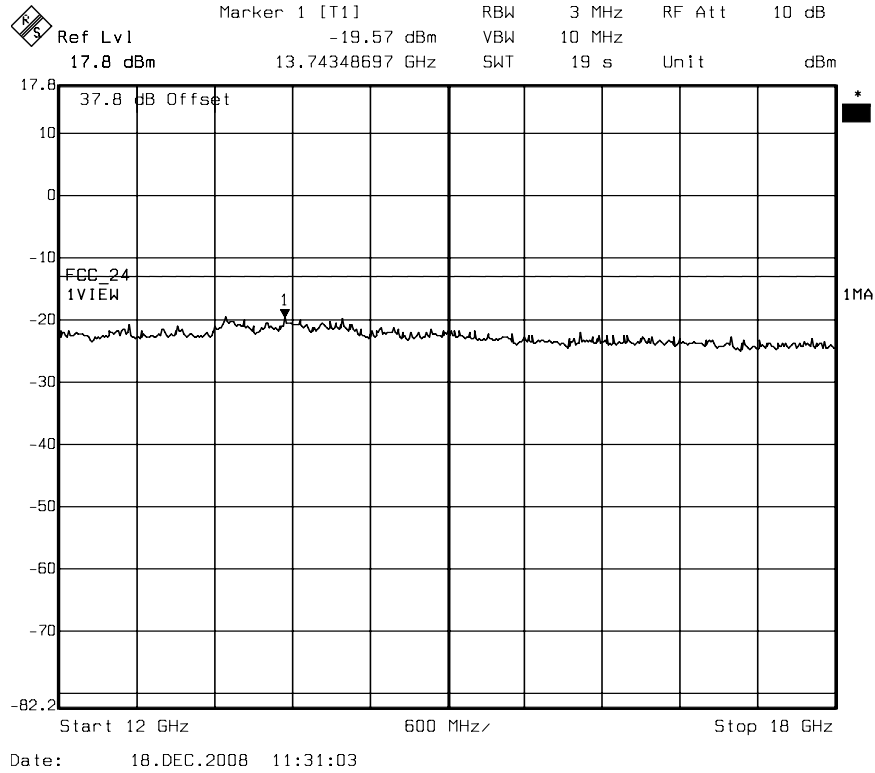


Diagram 8.27 – Channel 810 Horizontal

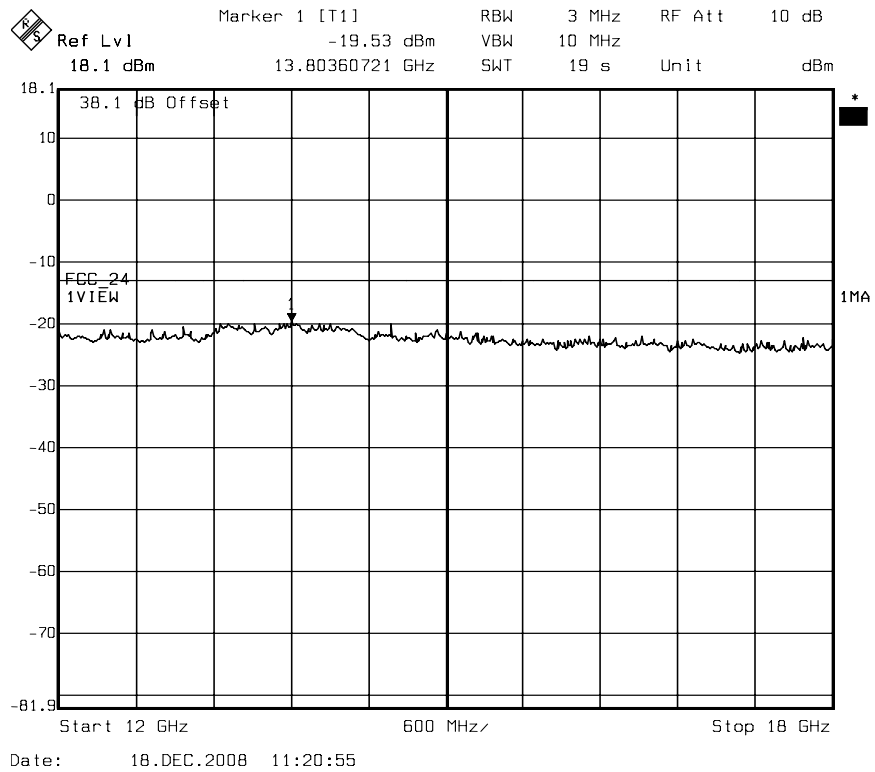
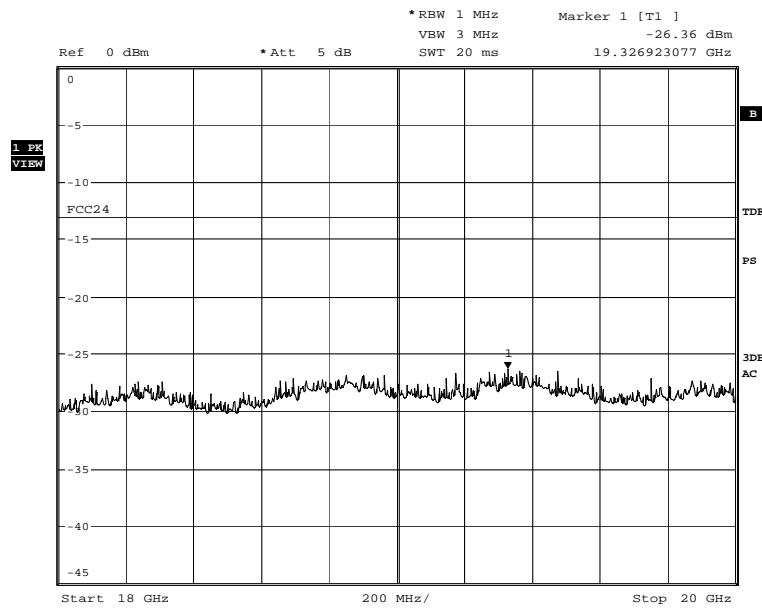


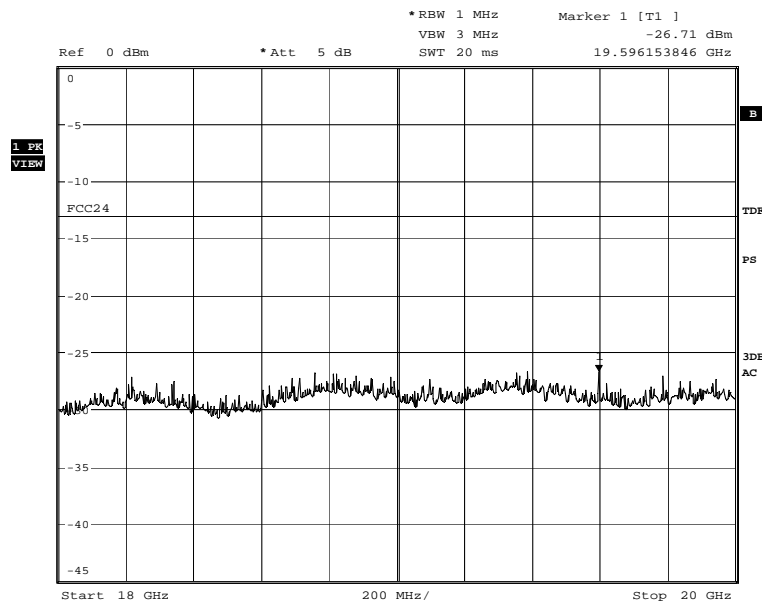
Diagram 8.28– Channel 810 Vertical

Diagrams frequency range:  $f > 18\text{GHz}$



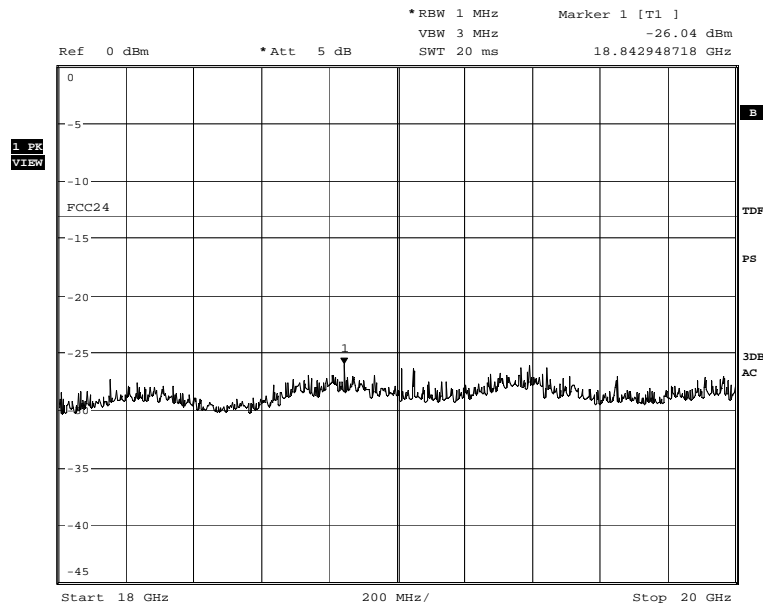
Date: 23.DEC.2008 09:03:03

Diagram 8.29 – Channel 512 (Overview measurement only)



Date: 23.DEC.2008 09:00:08

Diagram 8.30 – Channel 661 (Overview measurement only)



Date: 23.DEC.2008 09:06:50

Diagram 8.31 – Channel 810 (Overview measurement only)

## 1.5. RADIATED MAGNETIC FIELD STRENGTH MEASUREMENTS

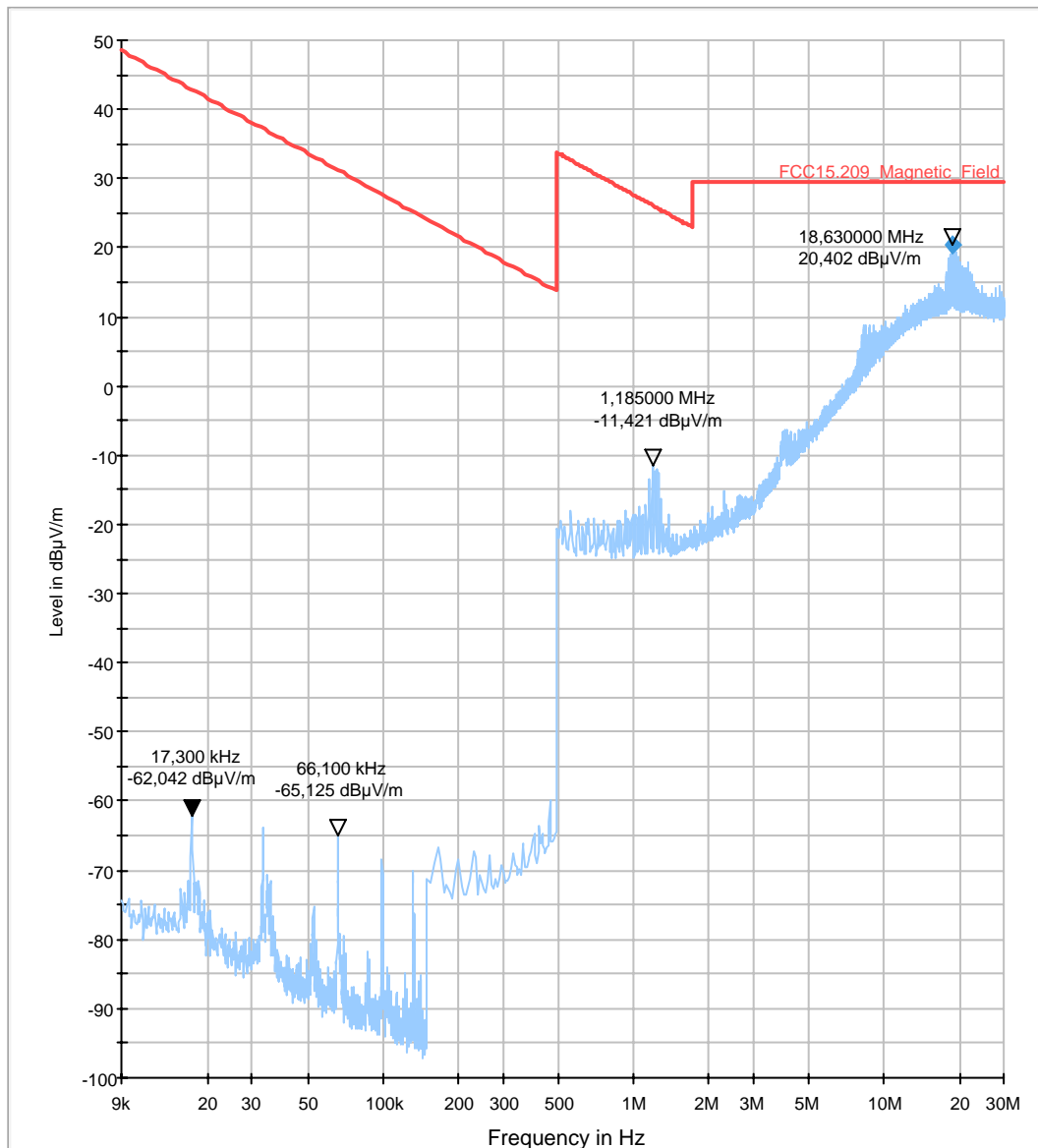
### Diagram No. 3.01

#### Common Information

Test description:	Electric Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room (SAR) with 3 m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (final):	height =1m
Turntable step:	90° during pre-scan, continuously turning during final measurement
Used filter:	lowpass 1200 MHz
Test specification.:	FCC 15.205 § 15.209

Operator:	x_Ken
Operating conditions:	TX-on GSM850
Comment 1:	Channel low (channel 128)

FCC15.209\_magn hor+vert





**EMI Auto Test Template: FCC15.209\_magn hor+vert**

Hardware Setup: HW25\_FCC15109\_ESCS\_MgFeld\_ohne\_SAR\_MATRIX  
 Measurement Type: Open-Area-Test-Site  
 Frequency Range: 9 kHz - 30 MHz  
 Graphics Level Range: 0 dB $\mu$ V/m - 50 dB $\mu$ V/m

Preview Measurements:  
 Antenna height: 0 - 1000 cm , Step Size = 0 cm , Speed = 1  
 Polarity: H + V  
 Turntable position: 35 - 305 deg , Step Size = 90 deg , Speed = 0  
 Scan Test Template: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
9 kHz - 150 kHz	MaxPeak	200 Hz	0,01 s	ESCS 30
150 kHz - 30 MHz	MaxPeak	10 kHz	0,01 s	ESCS 30

Data Reduction:  
 Limit Line #1: FCC15.209\_Magnetic\_Field  
 Peak Search: 20 dB  
 Maximum Results: 10  
 Subrange Maxima: 10  
 Maxima per Subrange: 1  
 Acceptance Offset: -10 dB  
 Maximum Number of Results: 20

Report Settings:  
 Report Template: FCC15\_209\_vert\_hor  
 Create Electronic Report: PDF  
 Document Name: EMI Report

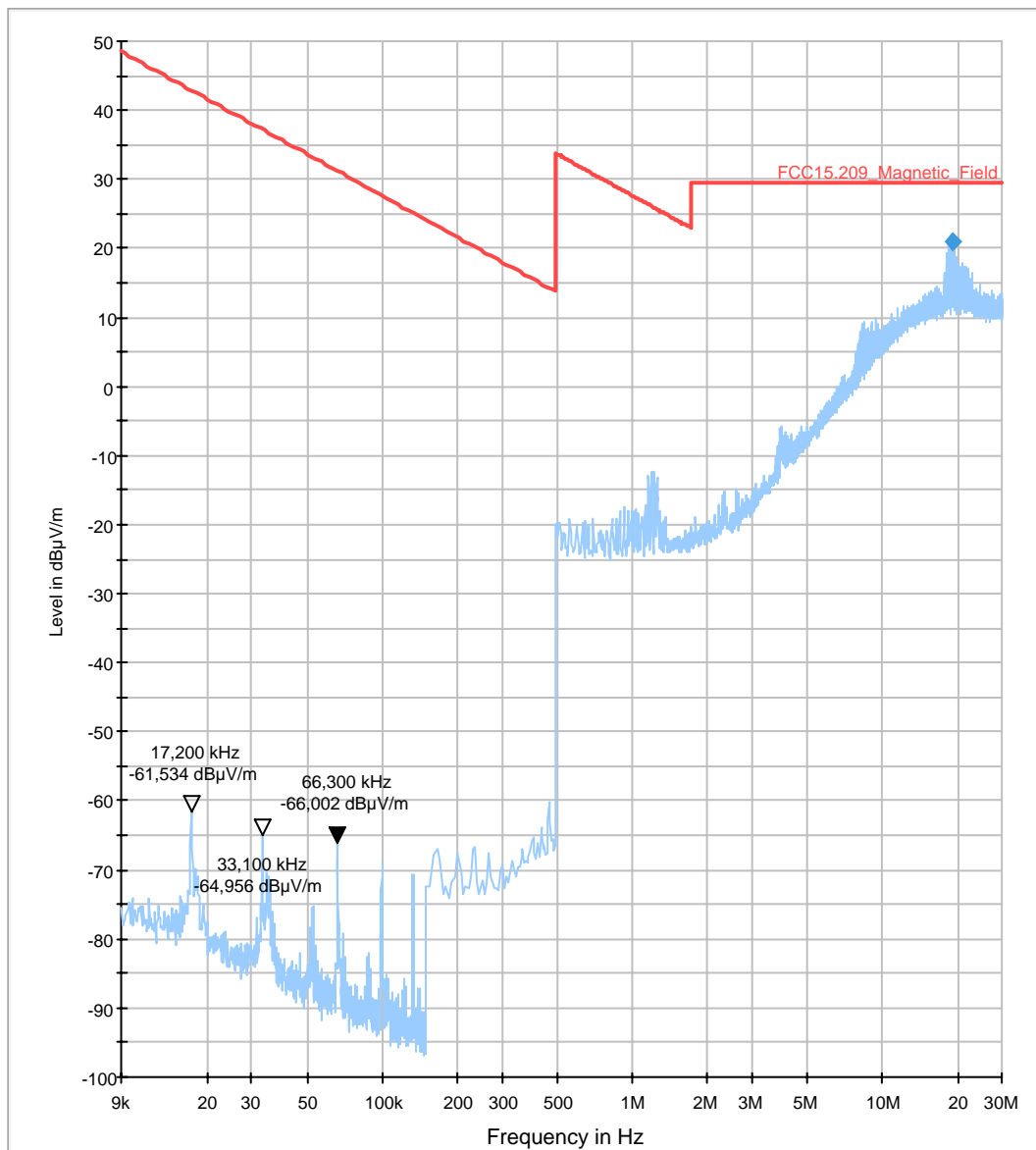
### Diagram No. 3.02

#### Common Information

Test description:	Electric Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room (SAR) with 3 m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (final):	height =1m
Turntable step:	90° during pre-scan, continuously turning during final measurement
Used filter:	lowpass 1200 MHz
Test specification.:	FCC 15.205 § 15.209

Operator:	x_Ken/x_Fto
Operating conditions:	TX-on GSM850
Comment 1:	Channel middle (channel 192)

FCC15.209\_magn hor+vert



**EMI Auto Test Template: FCC15.209\_magn hor+vert**

Hardware Setup: HW25\_FCC15109\_ESCS\_MgFeld\_ohne\_SAR\_MATRIX  
 Measurement Type: Open-Area-Test-Site  
 Frequency Range: 9 kHz - 30 MHz  
 Graphics Level Range: 0 dB $\mu$ V/m - 50 dB $\mu$ V/m

Preview Measurements:  
 Antenna height: 0 - 1000 cm , Step Size = 0 cm , Speed = 1  
 Polarity: H + V  
 Turntable position: 35 - 305 deg , Step Size = 90 deg , Speed = 0  
 Scan Test Template: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
9 kHz - 150 kHz	MaxPeak	200 Hz	0,01 s	ESCS 30
150 kHz - 30 MHz	MaxPeak	10 kHz	0,01 s	ESCS 30

Data Reduction:  
 Limit Line #1: FCC15.209\_Magnetic\_Field  
 Peak Search: 20 dB  
 Maximum Results: 10  
 Subrange Maxima: 10  
 Maxima per Subrange: 1  
 Acceptance Offset: -10 dB  
 Maximum Number of Results: 20

Report Settings:  
 Report Template: FCC15\_209\_vert\_hor  
 Create Electronic Report: PDF  
 Document Name: EMI Report

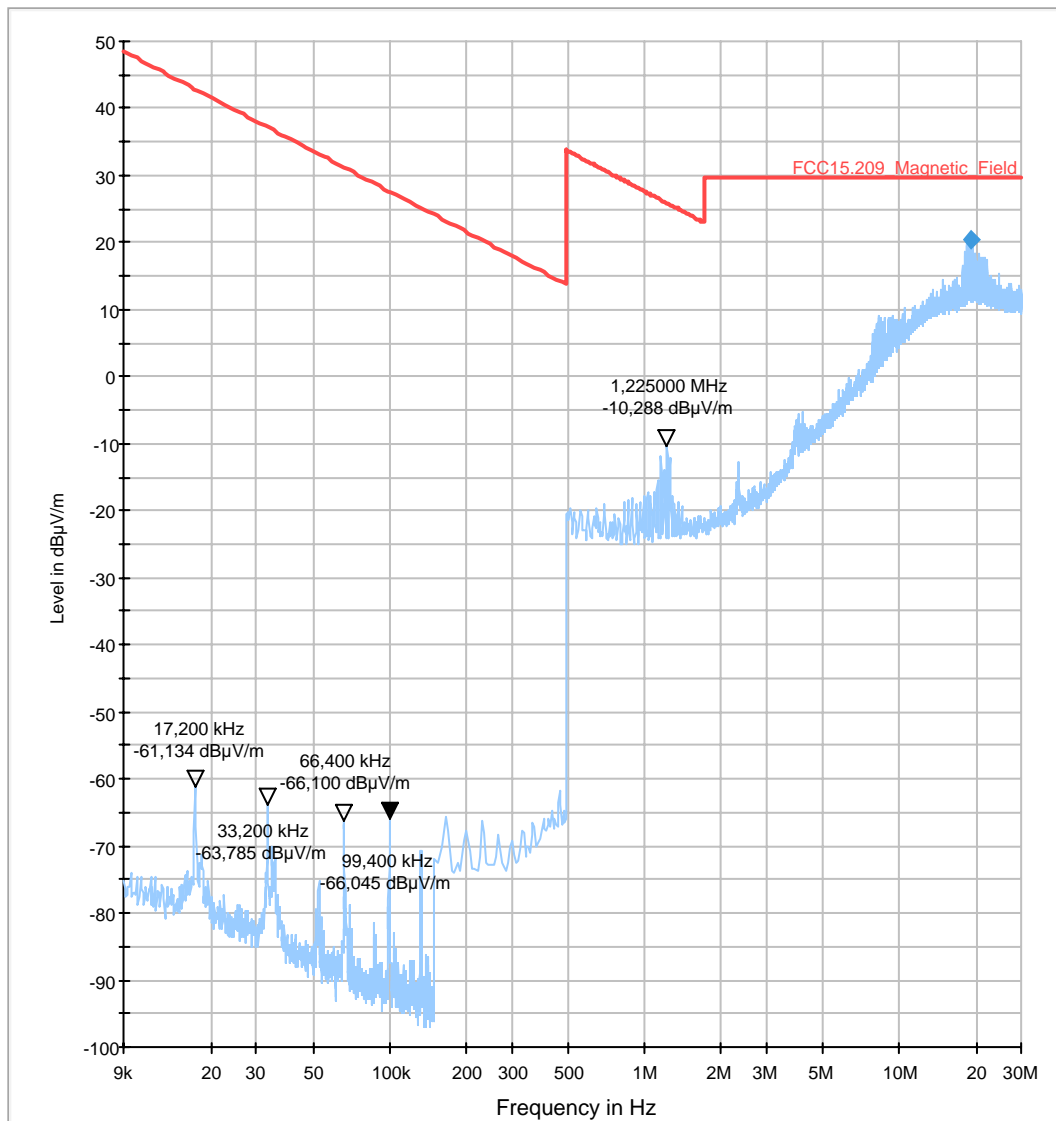
### Diagram No. 3.03

#### Common Information

Test description:	Electric Fieldstrength Measurement related to 3 m distance
Test site and distance:	Semi Anechoic Room (SAR) with 3 m measurement distance
Measured sides of EUT:	front, right, rear, left
Rec. antenna (final):	height =1m
Turntable step:	90° during pre-scan, continuously turning during final measurement
Used filter:	lowpass 1200 MHz
Test specification.:	FCC 15.205 § 15.209

Operator:	x_Ken/x_Fto
Operating conditions:	TX-on
Comment 1:	Channel high (channel 251)
EUT:	Deimos module + cradle + AC-adapter + ext. Antenna

FCC15.209\_magn hor+vert



**EMI Auto Test Template: FCC15.209\_magn hor+vert**

Hardware Setup: HW25\_FCC15109\_ESCS\_MgFeld\_ohne\_SAR\_MATRIX  
 Measurement Type: Open-Area-Test-Site  
 Frequency Range: 9 kHz - 30 MHz  
 Graphics Level Range: 0 dB $\mu$ V/m - 50 dB $\mu$ V/m

Preview Measurements:  
 Antenna height: 0 - 1000 cm , Step Size = 0 cm , Speed = 1  
 Polarity: H + V  
 Turntable position: 35 - 305 deg , Step Size = 90 deg , Speed = 0  
 Scan Test Template: 01\_FCC\_MG\_FELD\_PK\_FAST\_H&V\_EUT

Subrange	Detectors	IF Bandwidth	Meas. Time	Receiver
9 kHz - 150 kHz	MaxPeak	200 Hz	0,01 s	ESCS 30
150 kHz - 30 MHz	MaxPeak	10 kHz	0,01 s	ESCS 30

Data Reduction:  
 Limit Line #1: FCC15.209\_Magnetic\_Field  
 Peak Search: 20 dB  
 Maximum Results: 10  
 Subrange Maxima: 10  
 Maxima per Subrange: 1  
 Acceptance Offset: -10 dB  
 Maximum Number of Results: 20

Report Settings:  
 Report Template: FCC15\_209\_vert\_hor  
 Create Electronic Report: PDF  
 Document Name: EMI Report