

Prüfbericht - Nr.:

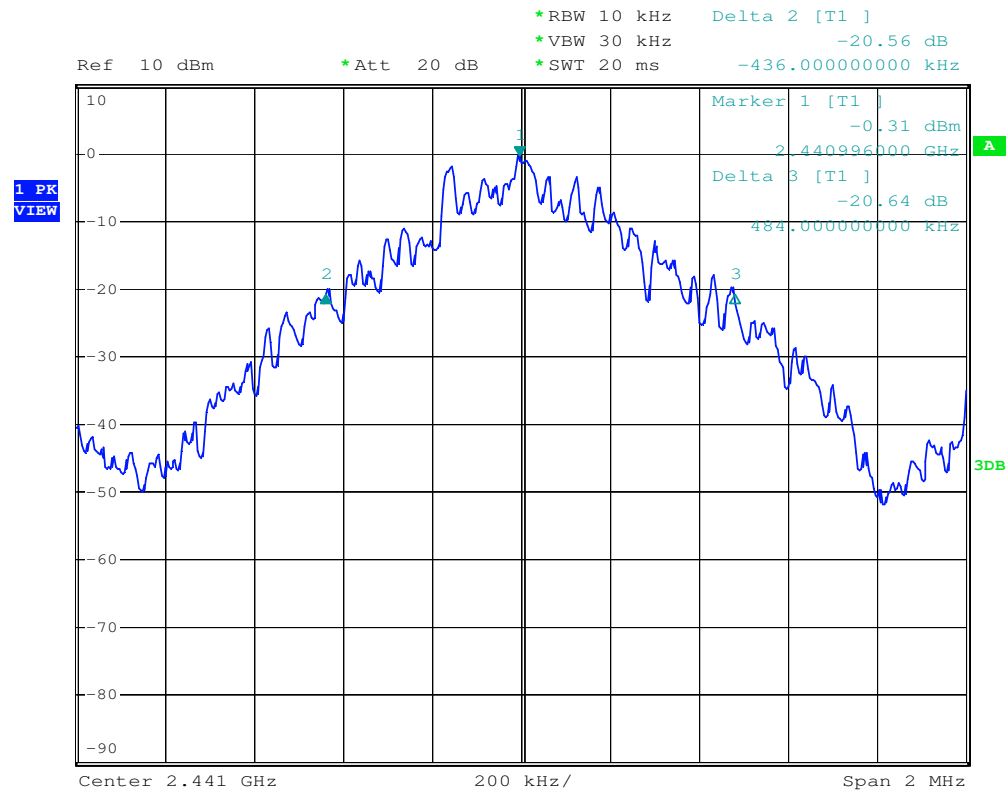
16019616 001

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### 20dB Bandwidth



Date: 25.SEP.2009 02:03:23

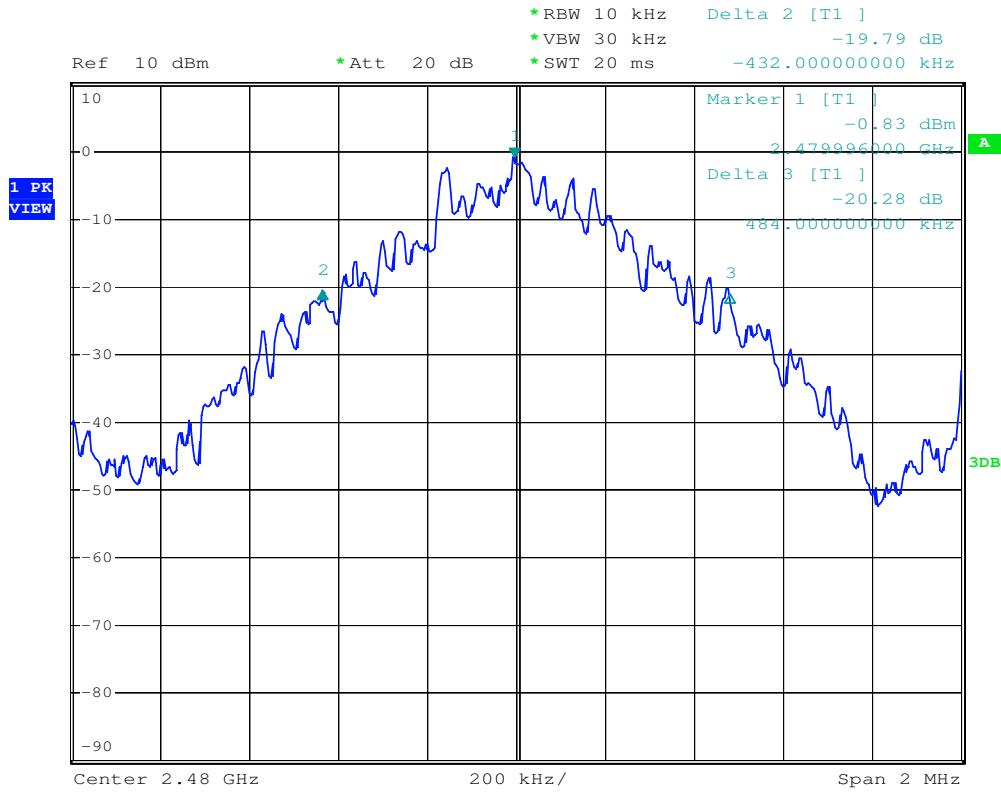
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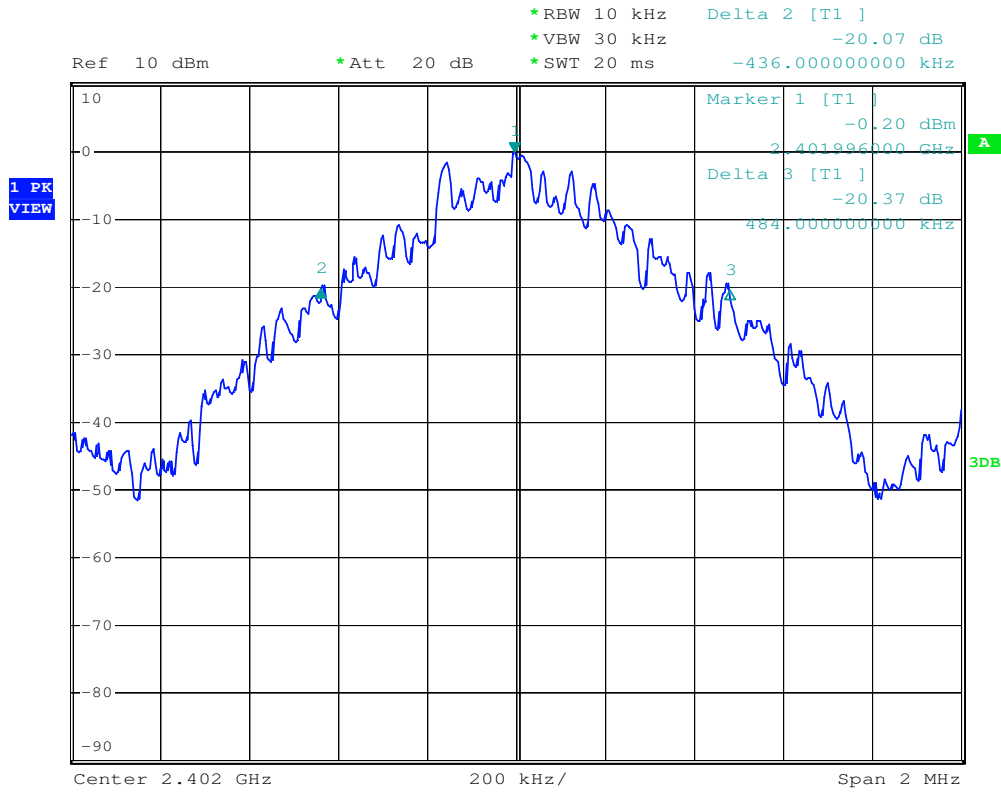
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Date: 25.SEP.2009 02:01:56

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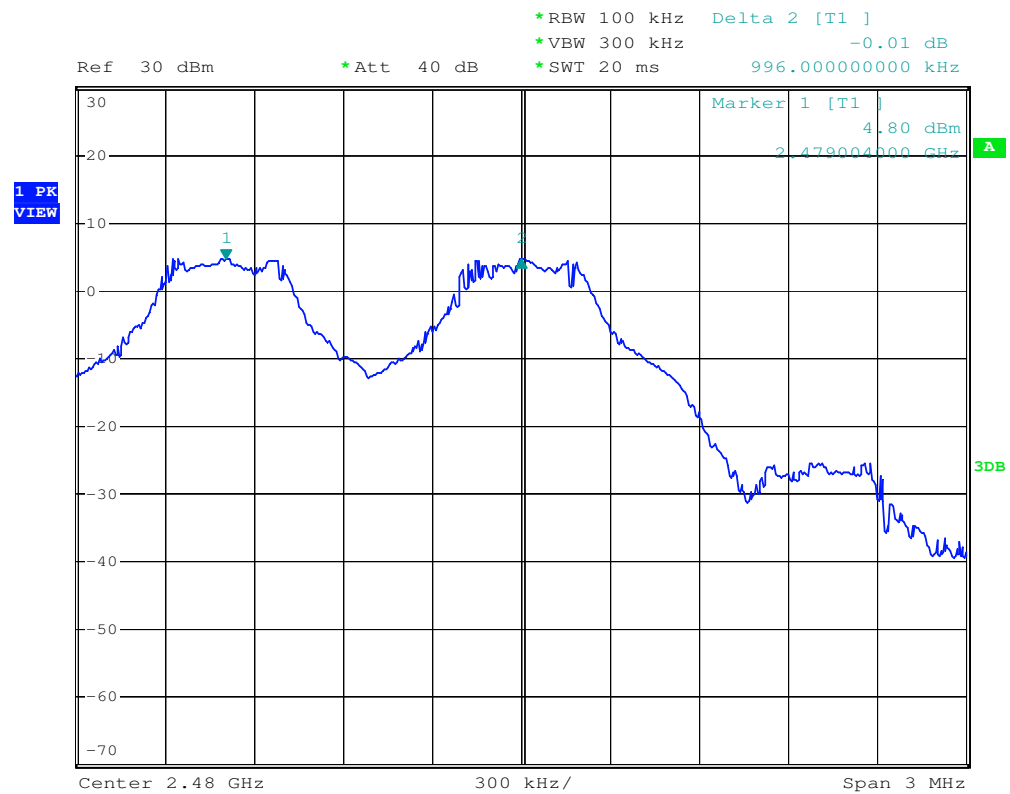


Date: 25.SEP.2009 02:04:47

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### Hopping Channel Carrier Frequency Separation



Date: 25.SEP.2009 02:16:02

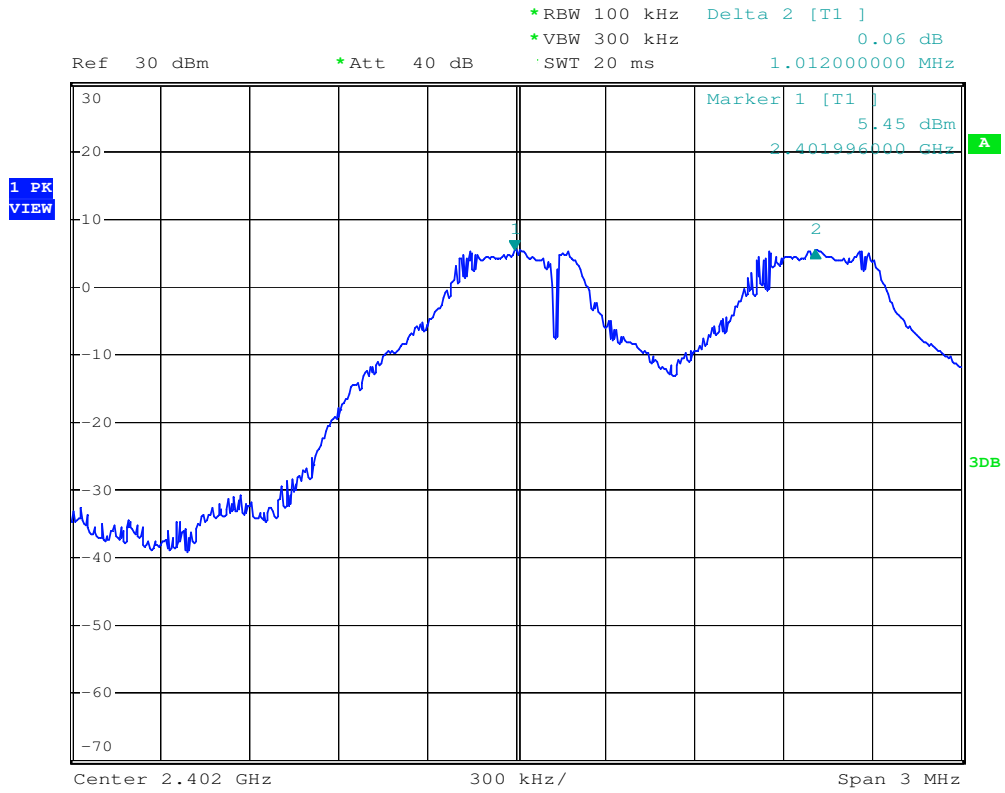
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Date: 25.SEP.2009 02:10:33

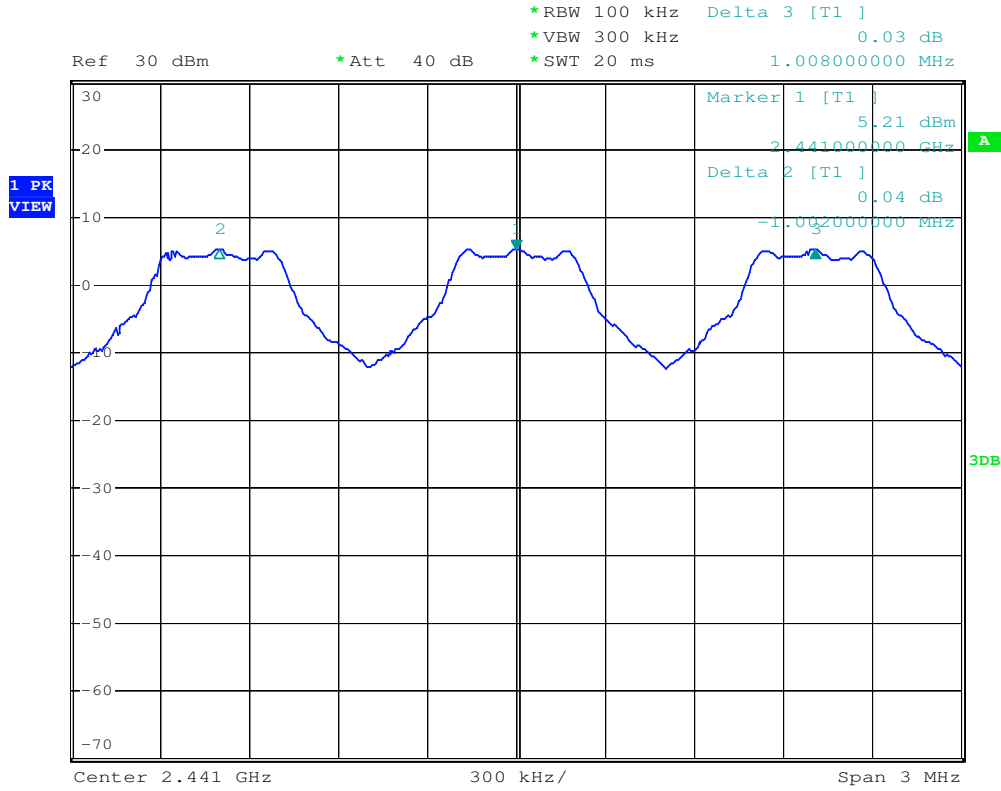
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Date: 25.SEP.2009 02:14:28

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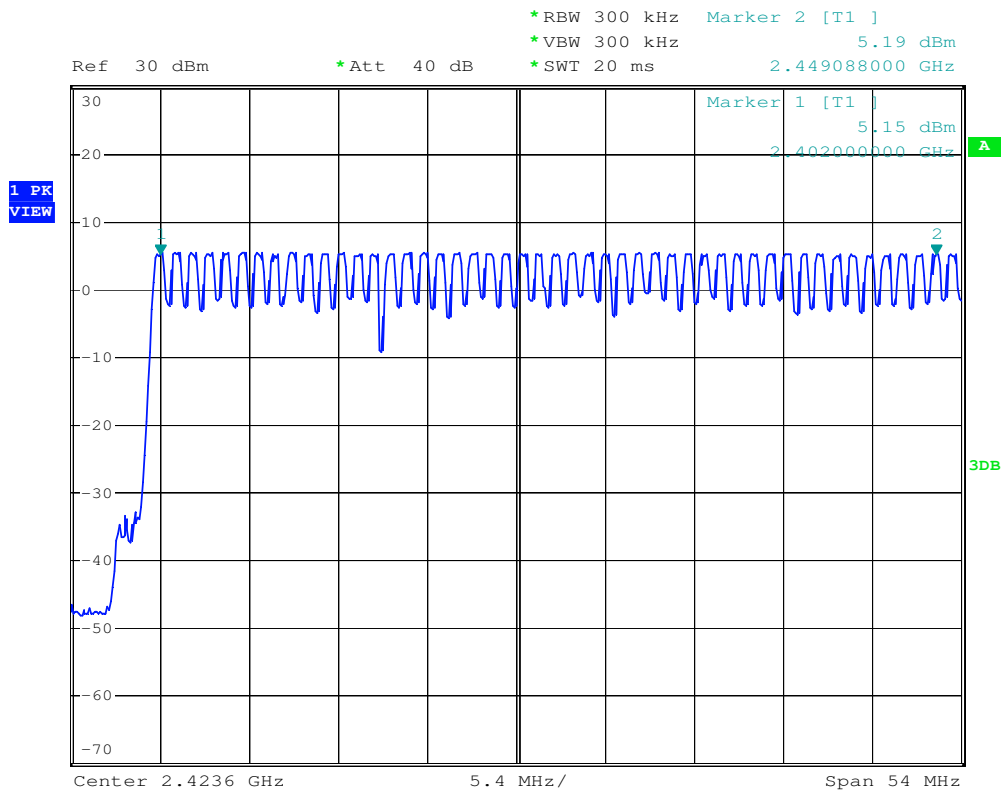
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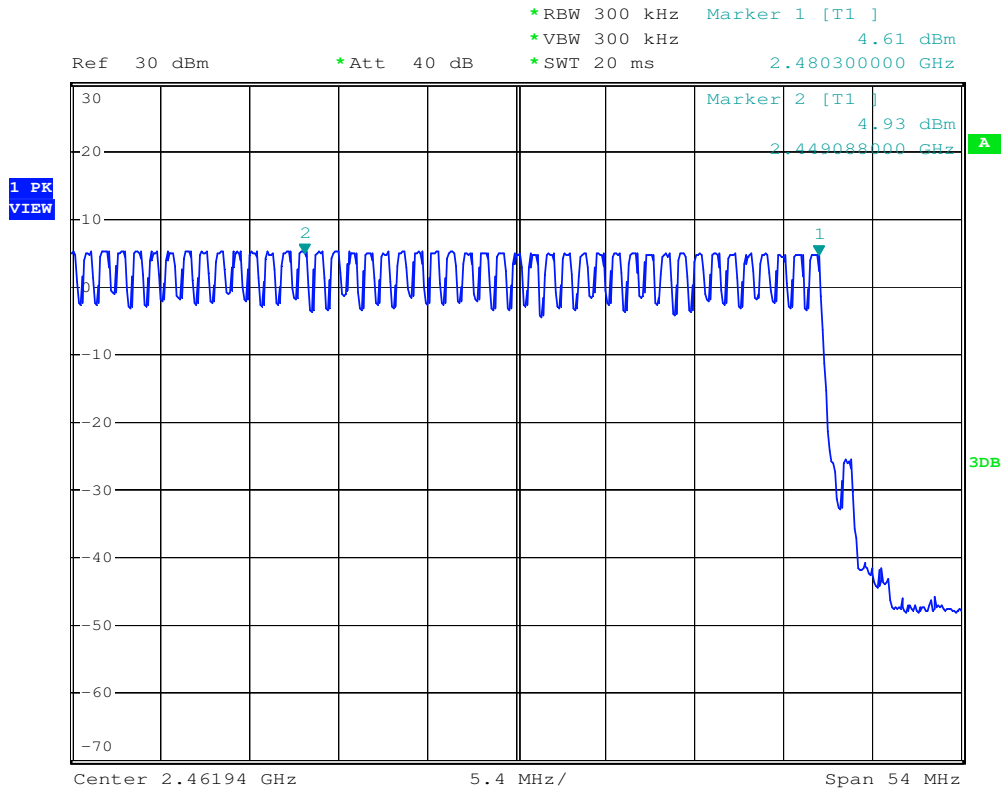
### Number of Hopping Frequency Used



Date: 25.SEP.2009 02:18:37

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Date: 25.SEP.2009 02:20:23



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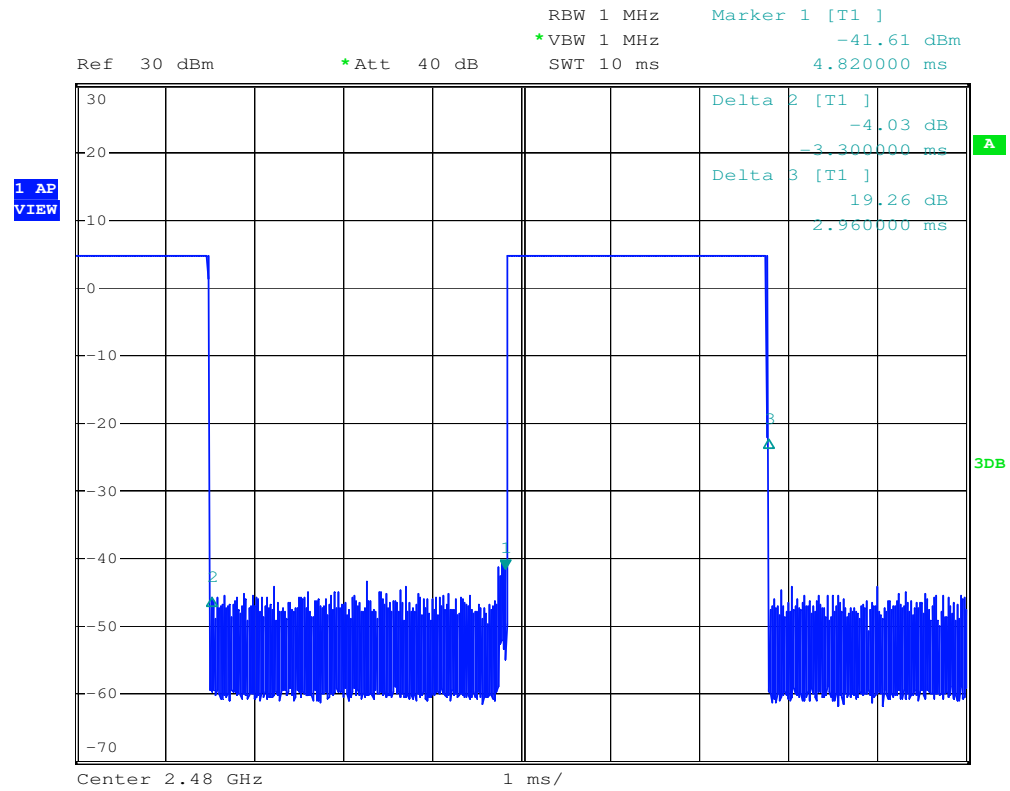
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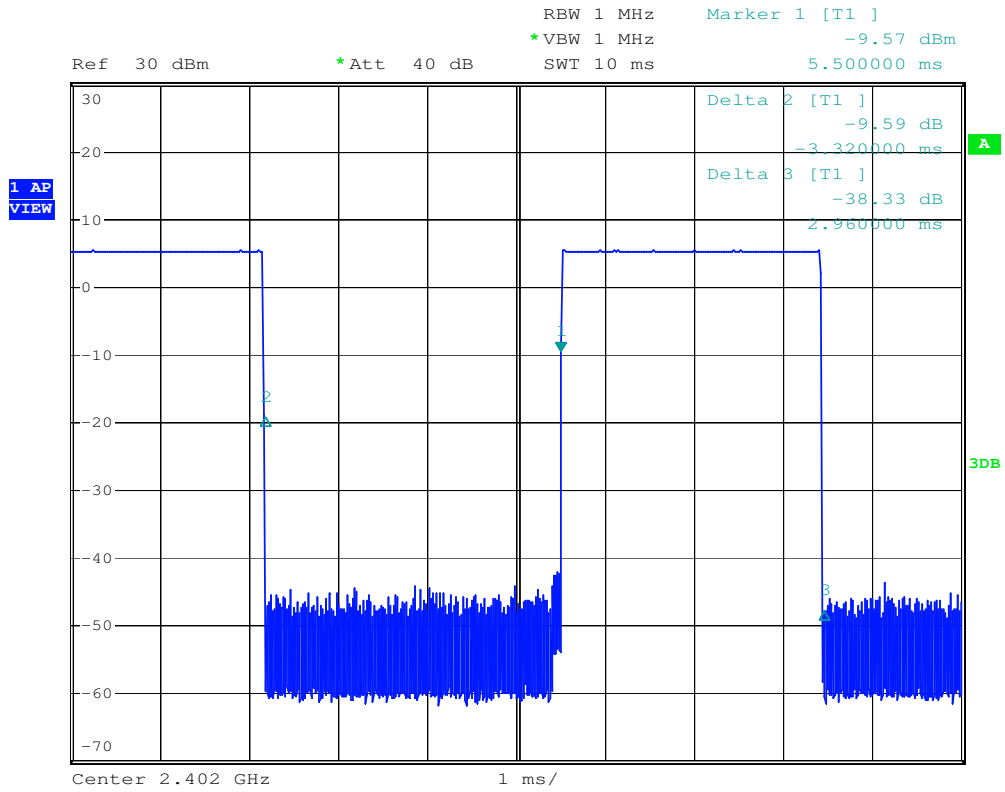
### Dwell Time



Date: 25.SEP.2009 02:56:53

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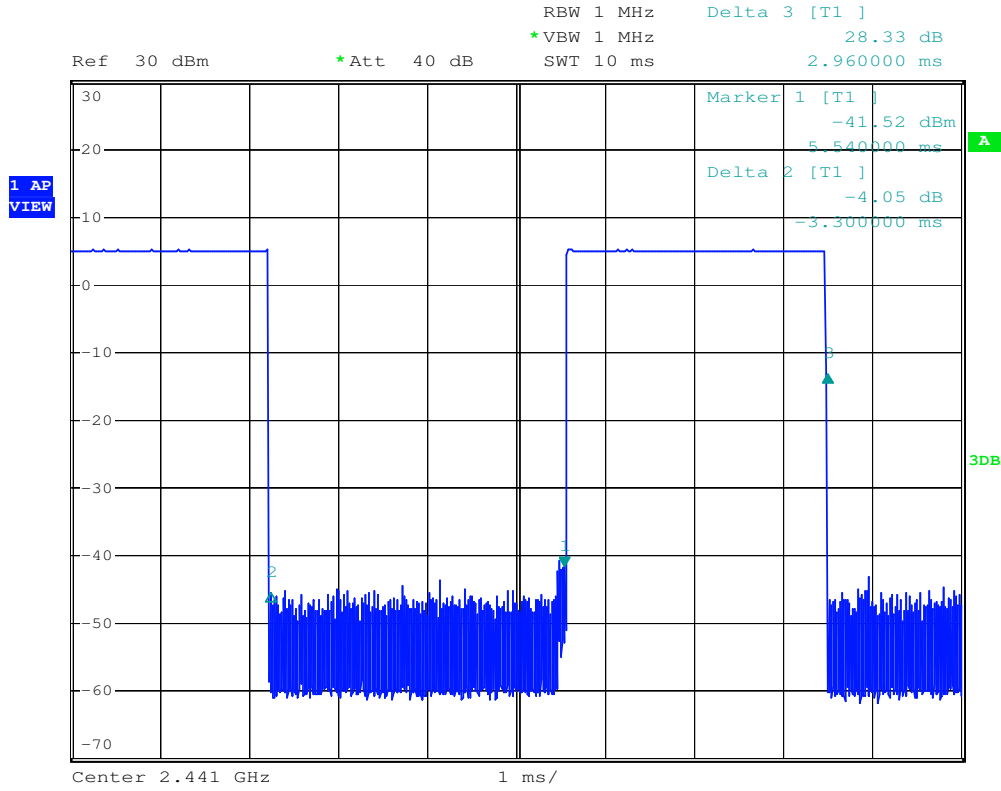


Date: 25.SEP.2009 02:54:40

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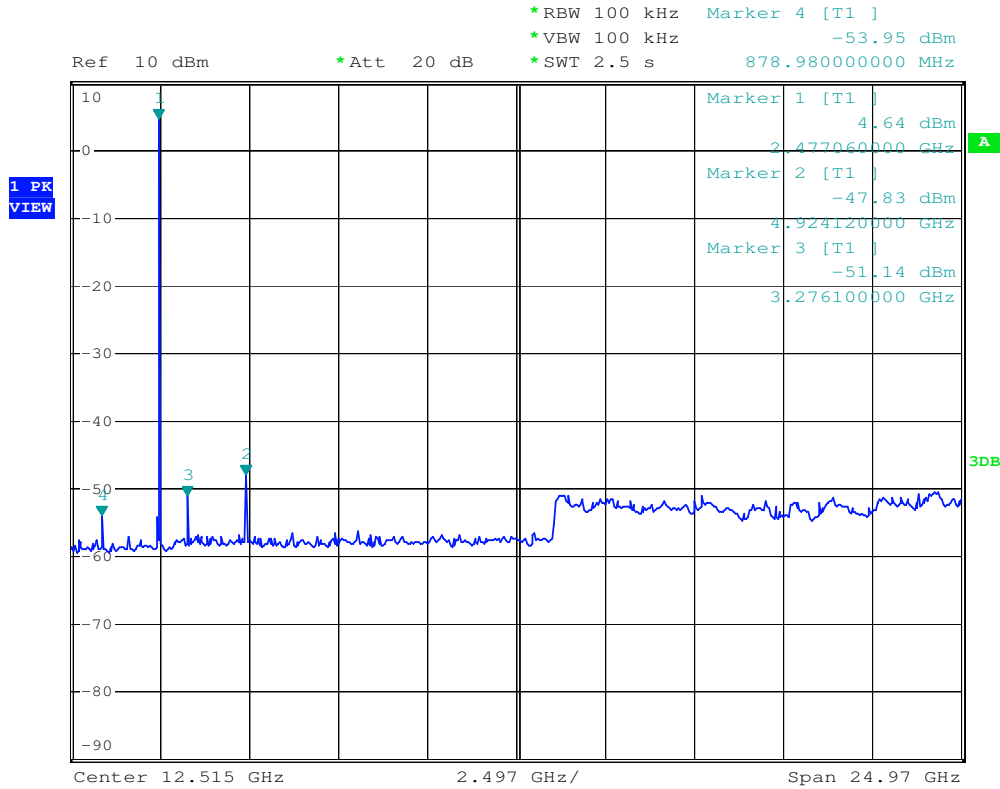


Date: 25.SEP.2009 02:55:48

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### Out-Of-Band Emission measurement

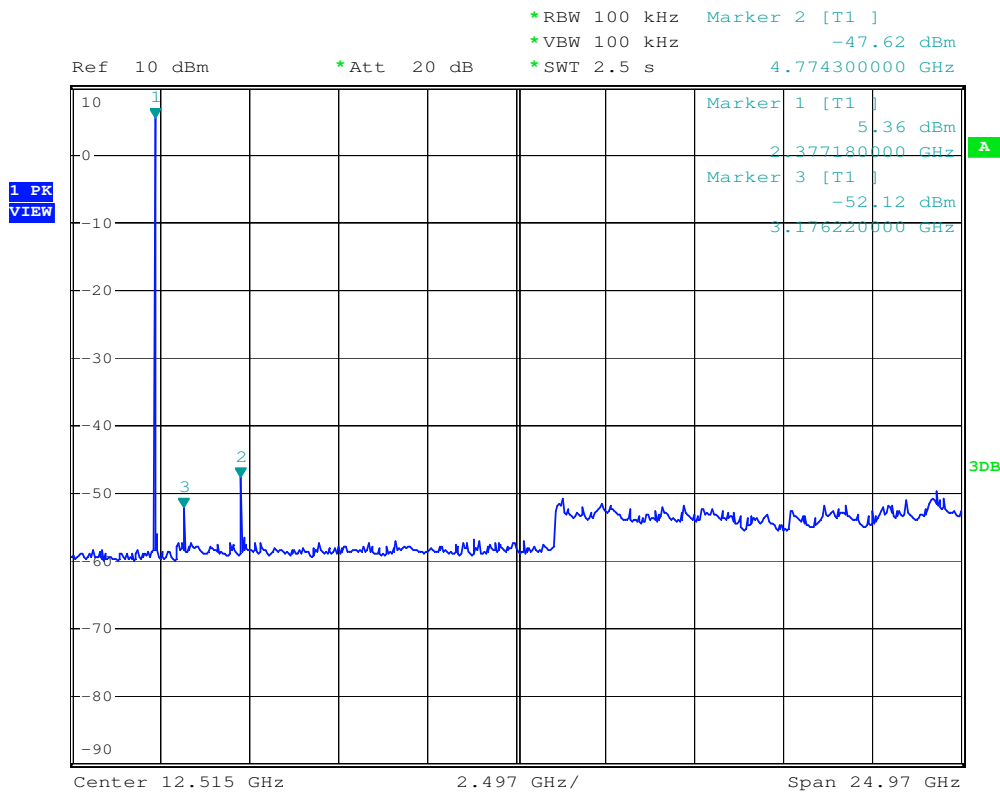


Date: 25.SEP.2009 02:46:25

Note: The scanned span is 2.49GHz/space, it will cause some deviation between the display frequency and the actual frequency, like the 2.477GHz on above plot. The actual carrier frequency is 2.480GHz, If the scanned span be set to 10MHz or 100MHz, the display frequency is exact = 2.480GHz.

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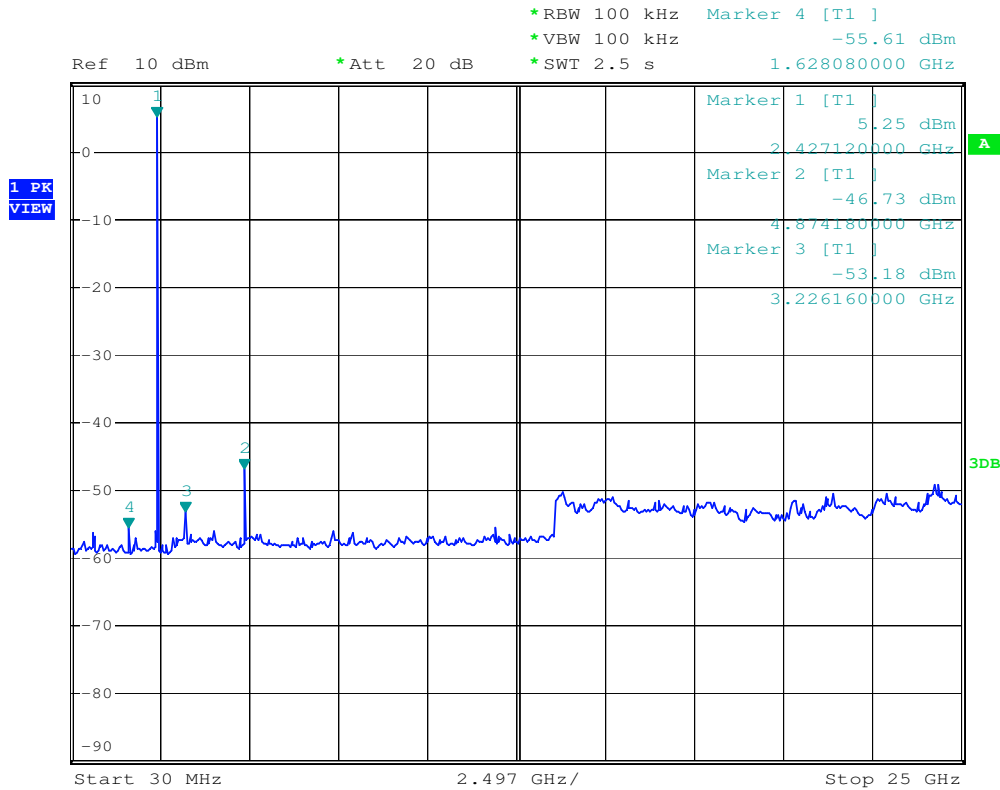


Date: 25.SEP.2009 02:25:20

Note: The scanned span is 2.49GHz/space, it will cause some deviation between the display frequency and the actual frequency, like the 2.377GHz on above plot. The actual carrier frequency is 2.402GHz, If the scanned span be set to 10MHz or 100MHz, the display frequency is exact = 2.402GHz.

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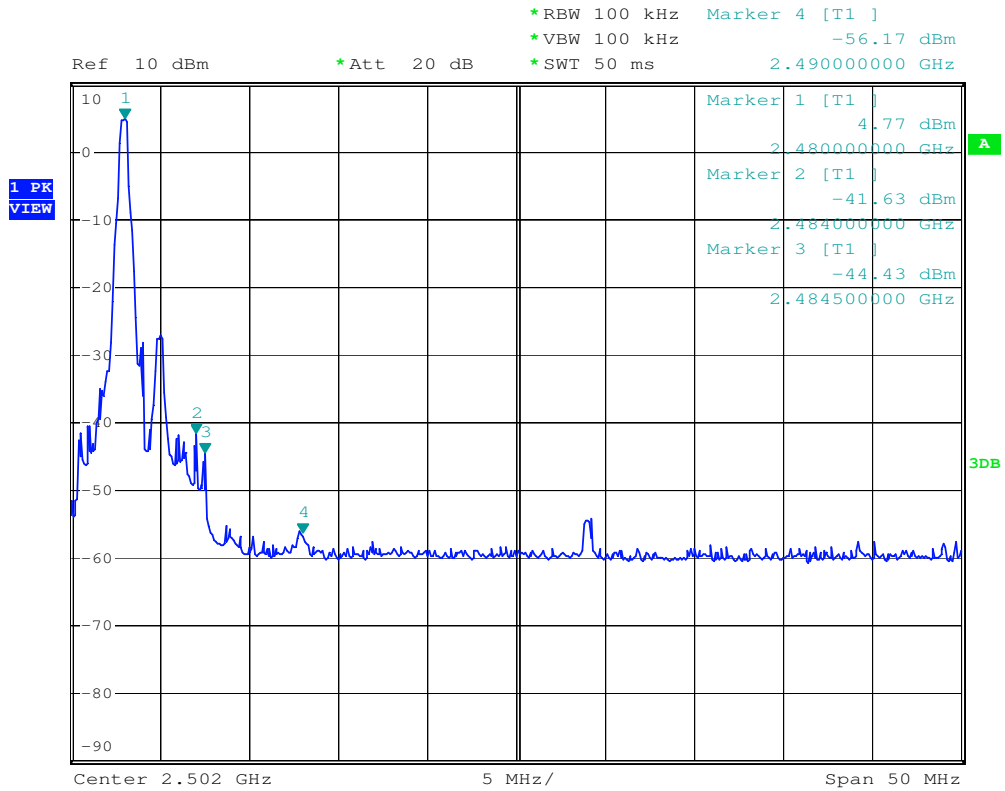
Date: 25.SEP.2009 02:34:53

Note: The scanned span is 2.49GHz/space, it will cause some deviation between the display frequency and the actual frequency, like the 2.427GHz on above plot. The actual carrier frequency is 2.441GHz, If the scanned span be set to 10MHz or 100MHz, the display frequency is exact = 2.441GHz.

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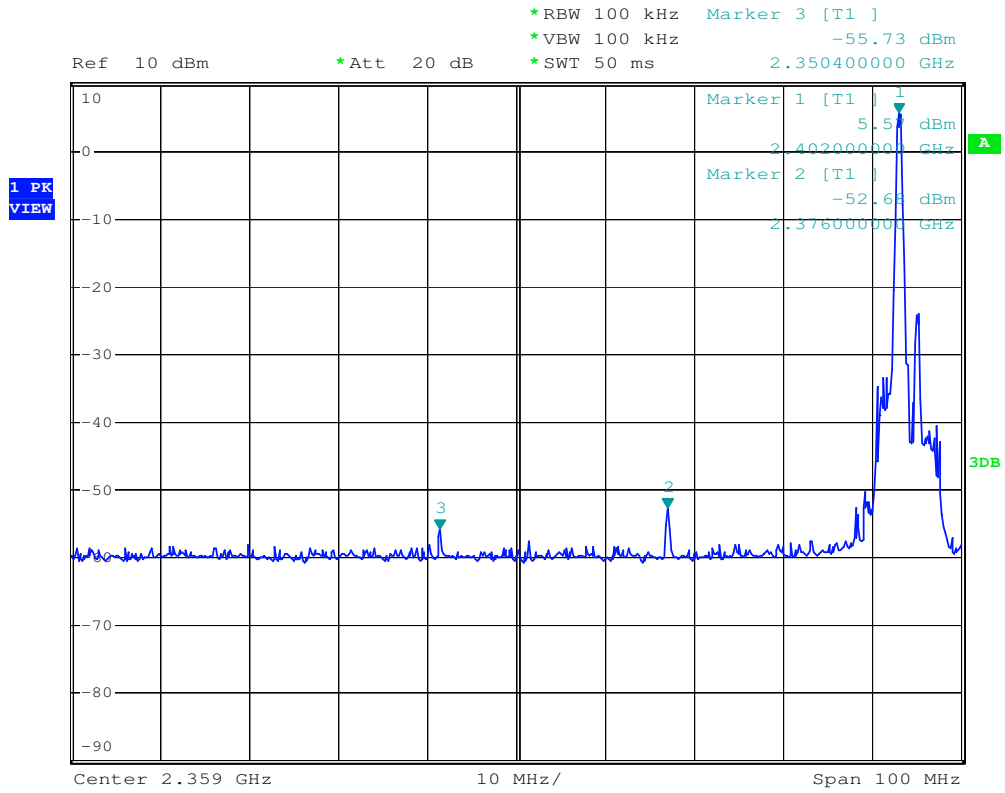
**Band Edges Emission in the Restricted Bands**



Date: 25.SEP.2009 02:49:53

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Date: 25.SEP.2009 02:51:58



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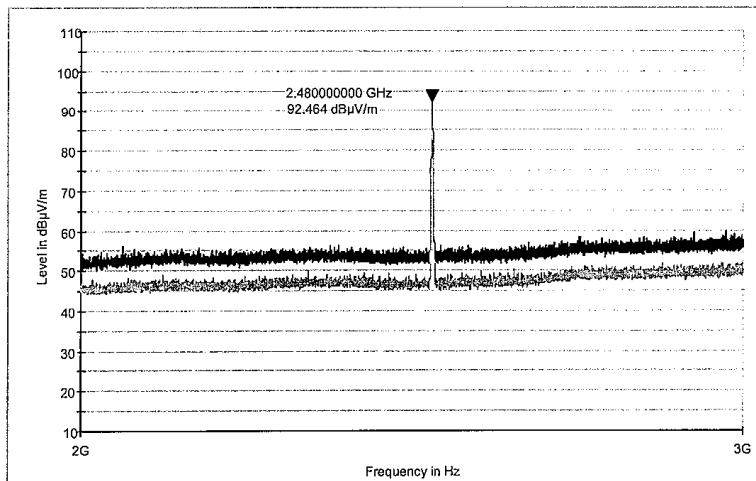
## EMC Test Record (EMISSION)

### Test Information


Manufacturer:	K-mate		
Test Item:	Bluetooth Handfree		
Identification:	BTC003		
Test Standard:	FCC Part 15		
Test Detail:	Radiated Emission		
Operation Mode:	A(High)		
Climate Condition:	22°C;	50 %RH;	101kPa.
Test Voltage / Freq. :	DC 3.7V		
Receipt No.:	173047572 100		
Report No.	16019616 001		
Result:	Pass		
Comment:	Horizontal		

### Subrange 1

Frequency Range:	2GHz - 3GHz
Receiver:	TUV FSP 30
Transducer:	TUV SAC HF906 / TUV FSP 30-TUV SAC HF906



Date: 11/3/2009 - Time: 4:57:53 PM

Tested by: 

Reviewed by: 

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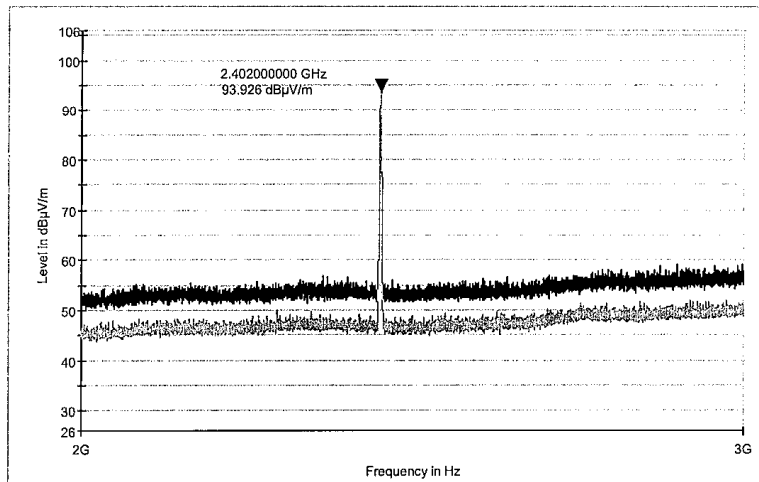
## EMC Test Record (EMISSION)

### Test Information


Manufacturer:	K-mate		
Test Item:	Bluetooth Handfree		
Identification:	BTC003		
Test Standard:	FCC Part 15		
Test Detail:	Radiated Emission		
Operation Mode:	A(Low)		
Climate Condition:	22°C;	50 %RH;	101kPa.
Test Voltage / Freq. :	DC 3.7V		
Receipt No.:	173047572 100		
Report No.	16019616 001		
Result:	Pass		
Comment:	Horizontal		

#### Subrange 1

Frequency Range:	2GHz - 3GHz
Receiver:	TUV FSP 30
Transducer:	TUV SAC HF906 / TUV FSP 30-TUV SAC HF906



Date: 11/3/2009 - Time: 4:47:45 PM

Tested by:  2009.11.03

Reviewed by: 

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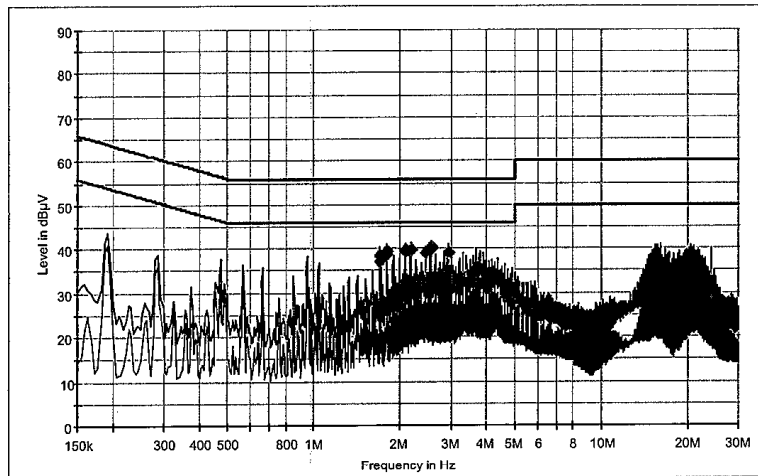
## EMC Test Record (EMISSION)

### Test Information

Manufacturer: K-mate  
Test Item: Bluetooth Handfree  
Identification: BTC003  
Test Standard: FCC Part 15  
Test Detail: Conducted Emission  
Operation Mode: Being programmed with PC  
Climate Condition: 22 °C; 51%RH; 101 kPa.  
Test Voltage/ Freq.: 120V/ 60Hz(Charging voltage: DC5V)  
Port / Line: AC Mains  
Receipt No.: 173047572 100  
Report No.: 16019616 001  
Result: Pass  
Comment: /

Hardware Setup: 1phase LISN ESH3-Z5 to ESCS30  
Level Unit: dB $\mu$ V

Subrange	Detectors	IF Bandwidth	Step Size	Meas. Time	Receiver
150kHz - 30MHz	Peak; Average	9kHz	4.5kHz	10ms	ESCS 30



2009-11-30, 9:22:48

Tested by:



Reviewed by:



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**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dB $\mu$ V)	Meas. Time (ms)	Bandwidth (kHz)	Line
1.702500	38.6	1000.000	9.000	N
1.797000	39.4	1000.000	9.000	N
2.080500	39.6	1000.000	9.000	L1
2.175000	39.8	1000.000	9.000	L1
2.553000	40.1	1000.000	9.000	L1
2.931000	39.2	1000.000	9.000	L1

(continuation of the "Final Measurement Detector 1" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)	Comment
1.702500	10.1	17.4	56.0	
1.797000	10.1	16.6	56.0	
2.080500	10.1	16.4	56.0	
2.175000	10.1	16.2	56.0	
2.553000	10.1	15.9	56.0	
2.931000	10.1	16.8	56.0	

**Final Measurement Detector 2**

Frequency (MHz)	Average (dB $\mu$ V)	Meas. Time (ms)	Bandwidth (kHz)	Line
1.702500	37.1	1000.000	9.000	N
1.797000	38.9	1000.000	9.000	N
2.080500	39.5	1000.000	9.000	L1
2.175000	39.8	1000.000	9.000	L1
2.458500	39.0	1000.000	9.000	L1
2.553000	40.3	1000.000	9.000	L1

(continuation of the "Final Measurement Detector 2" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)	Comment
1.702500	10.1	8.9	46.0	
1.797000	10.1	7.1	46.0	
2.080500	10.1	6.5	46.0	
2.175000	10.1	6.2	46.0	
2.458500	10.2	7.0	46.0	
2.553000	10.1	5.7	46.0	

2009-11-30, 9:22:48

Tested by: \_\_\_\_\_



Reviewed by: \_\_\_\_\_



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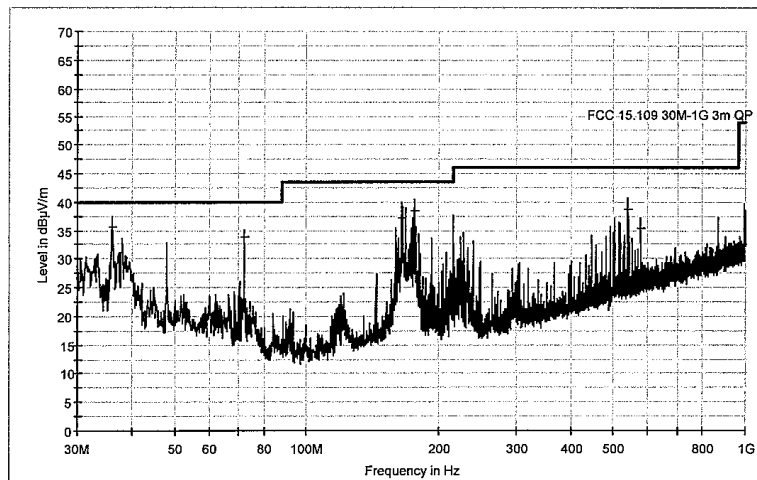
## EMC Test Record (EMISSION)

### Test Information

Manufacturer: K-mate  
 Test Item: BT handfree  
 Identification: BTC003  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: A  
 Climate Condition: 25 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq. : DC 3.7V  
 Receipt No.: 173047572 100  
 Report No. 16019616 001  
 Result: Pass  
 Comment: Vertical

#### Subrange 1

Frequency Range: 30MHz - 1GHz  
 Receiver: TUV ESCI 3  
 Transducer: TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



### Limit and Margin QP

Frequency (MHz)	QuasiPeak (dB µ V/m)	Corr. (dB)	Margin (dB)	Limit (dB µ V/m)	Polarity
36.000000	35.7	13.9	4.3	40.0	V
71.950000	33.9	9.5	6.1	40.0	V
164.000000	37.1	12.2	6.4	43.5	V
176.000000	38.5	12.8	5.0	43.5	V
540.100000	38.6	21.1	7.4	46.0	V
576.100000	35.3	22.0	10.7	46.0	V

Date: 11/26/2009 - Time: 4:02:59 PM

Tested by:



Reviewed by:



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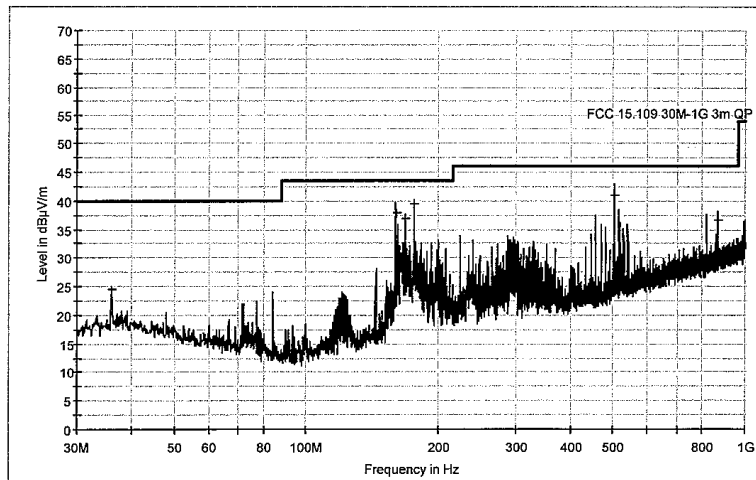
## EMC Test Record (EMISSION)

### Test Information

Manufacturer: K-mate  
 Test Item: BT handfree  
 Identification: BTC003  
 Test Standard: FCC Part 15  
 Test Detail: RE  
 Operation Mode: A  
 Climate Condition: 25 °C; 50 %RH; 101 kPa.  
 Test Voltage / Freq. : DC 3.7V  
 Receipt No.: 173047572 100  
 Report No. 16019616 001  
 Result: Pass  
 Comment: Horizontal

#### Subrange 1

Frequency Range: 30MHz - 1GHz  
 Receiver: TUV ESCI 3  
 Transducer: TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



### Limit and Margin QP

Frequency (MHz)	QuasiPeak (dB µ V/m)	Corr. (dB)	Margin (dB)	Limit (dB µ V/m)	Polarity
36.000000	24.4	13.9	15.6	40.0	H
160.000000	37.8	12.1	5.7	43.5	H
168.000000	36.8	12.4	6.7	43.5	H
176.000000	39.5	12.8	4.0	43.5	H
504.100000	41.0	20.5	5.0	46.0	H
864.200000	36.7	26.1	9.3	46.0	H

Date: 11/26/2009 - Time: 3:42:06 PM

Tested by:



Reviewed by:



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TUV Rheinland (Guangdong) Ltd.

001 / 032  
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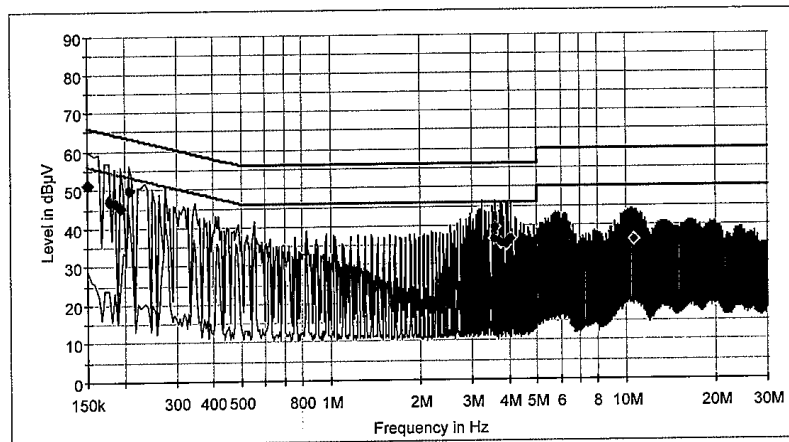
## EMC Test Record (EMISSION)

### Test Information

Manufacturer: K-mate  
Test Item: Bluetooth Handfree  
Identification: BTC003  
Test Standard: FCC Part 15  
Test Detail: Conducted Emission  
Operation Mode: Charging  
Climate Condition: 22 °C; 51%RH; 101 kPa.  
Test Voltage/ Freq.: 120V/ 60Hz(Charging voltage: DC5V)  
Port / Line: AC Mains  
Receipt No.: 173047572 100  
Report No.: 16019616 001  
Result: Pass  
Comment: /

Hardware Setup: 1phase LISN ESH3-Z5 to ESCS30  
Level Unit: dBµV

Subrange	Detectors	IF Bandwidth	Step Size	Meas. Time	Receiver
150kHz - 30MHz	Peak; Average	9kHz	4.5kHz	10ms	ESCS 30



10/30/2009, 12:13:13 PM

Tested by: \_\_\_\_\_

Reviewed by: \_\_\_\_\_



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**Final Measurement Detector 2**

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line
3.574500	36.6	1000.000	9.000	L1
3.781500	35.5	1000.000	9.000	L1
3.916500	35.2	1000.000	9.000	L1
3.997500	36.2	1000.000	9.000	N
4.056000	36.5	1000.000	9.000	L1
10.522500	36.2	1000.000	9.000	L1

(continuation of the "Final Measurement Detector 2" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
3.574500	10.5	9.4	46.0	
3.781500	10.5	10.5	46.0	
3.916500	10.4	10.8	46.0	
3.997500	10.2	9.8	46.0	
4.056000	10.4	9.5	46.0	
10.522500	10.6	13.8	50.0	

**Final Measurement Detector 1**

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.150000	51.3	1000.000	9.000	L1
0.177000	47.2	1000.000	9.000	N
0.186000	46.2	1000.000	9.000	N
0.195000	45.3	1000.000	9.000	N
0.208500	49.8	1000.000	9.000	L1
3.583500	39.5	1000.000	9.000	N

(continuation of the "Final Measurement Detector 1" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.150000	10.1	14.7	66.0	
0.177000	10.1	17.5	64.6	
0.186000	10.0	18.0	64.2	
0.195000	10.1	18.6	63.8	
0.208500	10.1	13.4	63.3	
3.583500	10.3	16.5	56.0	

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Tested by:



Reviewed by:





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003/032

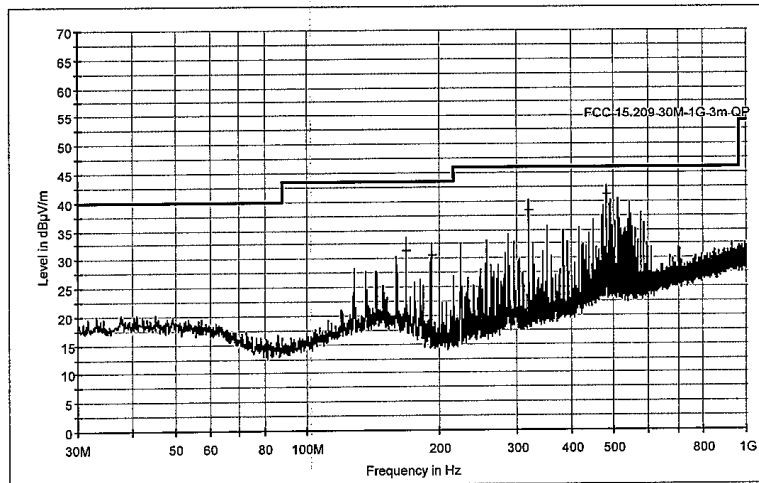
### EMC Test Record (EMISSION)

#### Test Information

Manufacturer: K-mate  
 Test Item: Bluetooth Handfree  
 Identification: BTC003  
 Test Standard: FCC Part 15  
 Test Detail: Radiated Emission  
 Operation Mode: A(Low)  
 Climate Condition: 22°C; 50 %RH; 101kPa.  
 Test Voltage / Freq. : DC 3.7V  
 Receipt No.: 173047572 100  
 Report No. 16019616 001  
 Result: Pass  
 Comment: /

#### Subrange 1

Frequency Range: 30MHz - 1GHz  
 Receiver: TUV ESCI 3  
 Transducer: TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



#### Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr (dB)	Margin (dB)	Limit (dBµV/m)	Polarity
168.000000	31.3	14.9	12.2	43.5	H
192.000000	30.6	12.0	12.9	43.5	H
320.000000	38.5	15.6	7.5	46.0	H
480.100000	41.1	19.1	4.9	46.0	H

Date: 10/30/2009 - Time: 5:22:12 PM

Tested by:



Reviewed by:



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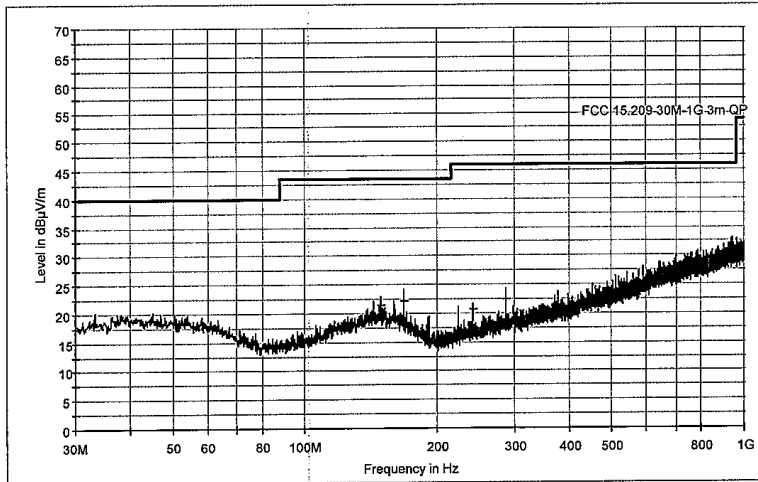
004/032

### EMC Test Record (EMISSION)

**Test Information**

Manufacturer: K-mate  
 Test Item: Bluetooth Handfree  
 Identification: BTC003  
 Test Standard: FCC Part 15  
 Test Detail: Radiated Emission  
 Operation Mode: A(Low)  
 Climate Condition: 22°C; 50 %RH; 101kPa.  
 Test Voltage / Freq. : DC 3.7V  
 Receipt No.: 173047572 100  
 Report No. 16019616 001  
 Result: Pass  
 Comment: /

Subrange 1  
 Frequency Range: 30MHz - 1GHz  
 Receiver: TUV ESCI 3  
 Transducer: TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



**Limit and Margin QP**

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarity
149.200000	21.4	15.6	22.1	43.5	V
167.900000	22.3	15.0	21.2	43.5	V
241.200000	20.6	13.4	25.4	46.0	V
288.000000	22.5	14.7	23.5	46.0	V

Date: 10/30/2009 - Time: 5:46:50 PM

Tested by:

Reviewed by:



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TUV Rheinland (Guangdong) Ltd.

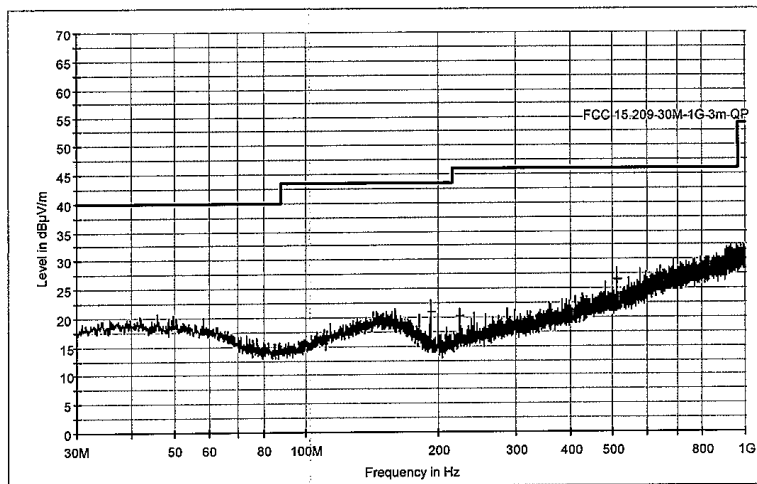
005 / 032  
EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

### Test Information

Manufacturer: K-mate  
Test Item: Bluetooth Handfree  
Identification: BTC003  
Test Standard: FCC Part 15  
Test Detail: Radiated Emission  
Operation Mode: A(Mid)  
Climate Condition: 22°C; 50 %RH; 101kPa.  
Test Voltage / Freq. : DC 3.7V  
Receipt No.: 173047572 100  
Report No. 16019616 001  
Result: Pass  
Comment: /

Subrange 1  
Frequency Range: 30MHz - 1GHz  
Receiver: TUV ESCI 3  
Transducer: TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



### Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr (dB)	Margin (dB)	Limit (dBµV/m)	Polarity
160.000000	18.3	15.6	25.2	43.5	V
192.000000	21.1	12.0	22.4	43.5	V
224.000000	20.3	12.7	25.7	46.0	V
512.000000	26.5	19.7	19.5	46.0	V

Date: 10/30/2009 - Time: 5:41:41 PM

Tested by:



Reviewed by:



**Prüfbericht - Nr.:** 16019616 001  
Test Report no.

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

006 / 032

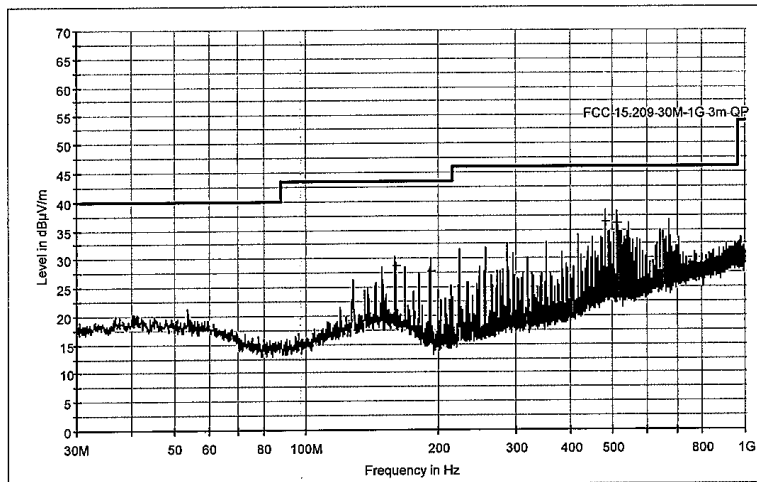
## EMC Test Record (EMISSION)

### Test Information

Manufacturer: K-mate  
 Test Item: Bluetooth Handfree  
 Identification: BTC003  
 Test Standard: FCC Part 15  
 Test Detail: Radiated Emission  
 Operation Mode: A(Mid)  
 Climate Condition: 22°C; 50 %RH; 101kPa.  
 Test Voltage / Freq.: DC 3.7V  
 Receipt No.: 173047572 100  
 Report No.: 16019616 001  
 Result: Pass  
 Comment: /

### Subrange 1

Frequency Range: 30MHz - 1GHz  
 Receiver: TUV ESCI 3  
 Transducer: TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



### Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr (dB)	Margin (dB)	Limit (dBµV/m)	Polarity
160.000000	28.7	15.6	14.8	43.5	H
192.000000	27.8	12.0	15.7	43.5	H
480.000000	36.5	19.1	9.5	46.0	H
512.000000	36.1	19.7	9.9	46.0	H

Date: 10/30/2009 - Time: 5:35:41 PM

Tested by:



Reviewed by:



**Prüfbericht - Nr.:** 16019616 001  
Test Report no.

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TUV Rheinland (Guangdong) Ltd.

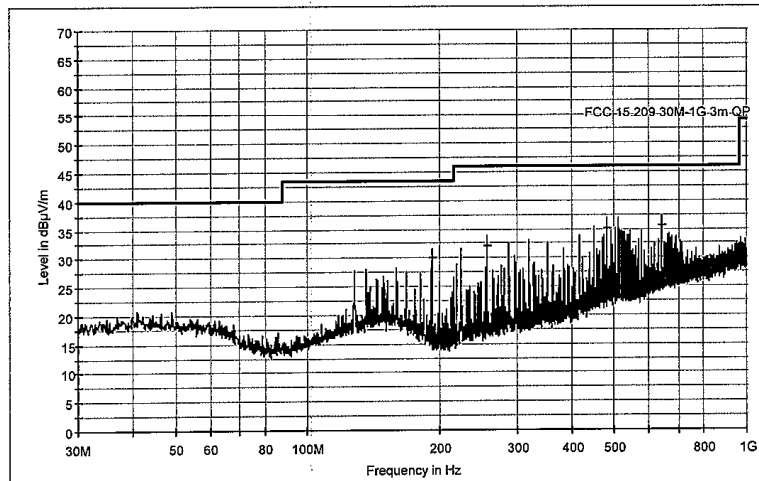
007/032  
EMC Test Service Hotline: +86-20-28391188

## EMC Test Record (EMISSION)

### Test Information

Manufacturer: K-mate  
Test Item: Bluetooth Handfree  
Identification: BTC003  
Test Standard: FCC Part 15  
Test Detail: Radiated Emission  
Operation Mode: A(High)  
Climate Condition: 22°C; 50 %RH; 101kPa.  
Test Voltage / Freq. : DC 3.7V  
Receipt No.: 173047572 100  
Report No. 16019616 001  
Result: Pass  
Comment: /

Subrange 1  
Frequency Range: 30MHz - 1GHz  
Receiver: TUV ESCI 3  
Transducer: TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



### Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr (dB)	Margin (dB)	Limit (dBµV/m)	Polarity
192.000000	30.0	12.0	13.5	43.5	H
256.000000	32.1	13.7	13.9	46.0	H
480.000000	35.2	19.1	10.8	46.0	H
640.000000	35.7	22.4	10.3	46.0	H

Date: 10/30/2009 - Time: 5:55:35 PM

Tested by:  2009.11.02

Reviewed by:  2009.11.02

**Prüfbericht - Nr.:** 16019616 001  
*Test Report no.*

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008/032

TUV Rheinland (Guangdong) Ltd.

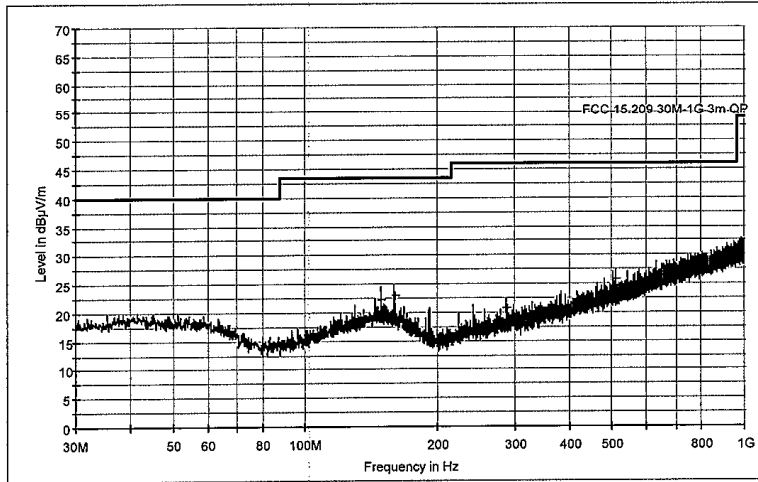
EMC Test Service Hotline: +86-20-28391188

### EMC Test Record (EMISSION)

#### Test Information

**Manufacturer:** K-mate  
**Test Item:** Bluetooth Handfree  
**Identification:** BTC003  
**Test Standard:** FCC Part 15  
**Test Detail:** Radiated Emission  
**Operation Mode:** A(High)  
**Climate Condition:** 22°C; 50 %RH; 101kPa.  
**Test Voltage / Freq. :** DC 3.7V  
**Receipt No.:** 173047572 100  
**Report No.:** 16019616 001  
**Result:** Pass  
**Comment:** /

**Subrange 1**  
**Frequency Range:** 30MHz - 1GHz  
**Receiver:** TUV ESCI 3  
**Transducer:** TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



#### Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr (dB)	Margin (dB)	Limit (dBµV/m)	Polarity
149.300000	22.3	15.6	21.2	43.5	V
160.000000	23.1	15.6	20.4	43.5	V
288.000000	20.6	14.7	25.4	46.0	V
511.500000	25.8	19.7	20.2	46.0	V

Date: 10/30/2009 - Time: 5:51:15 PM

Tested by:



Reviewed by:



**Prüfbericht - Nr.:** 16019616 001  
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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

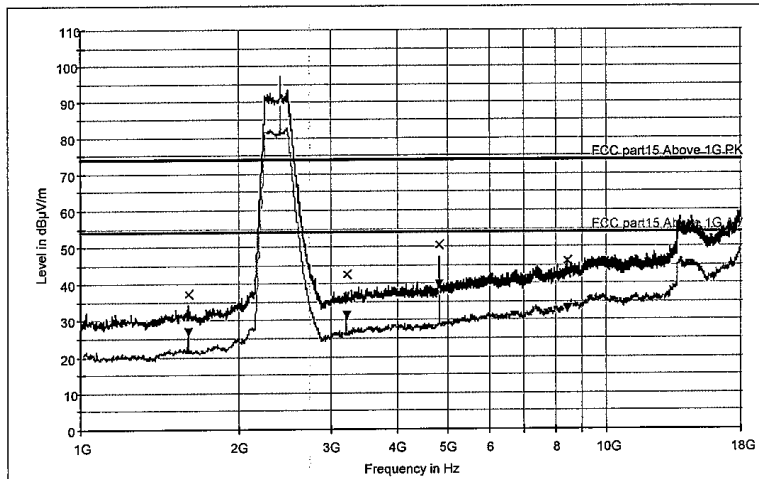
009/032

### EMC Test Record (EMISSION)

#### Test Information

Manufacturer:	K-mate		
Test Item:	Bluetooth Handfree		
Identification:	BTC003		
Test Standard:	FCC Part 15		
Test Detail:	Radiated Emission		
Operation Mode:	A(Low)		
Climate Condition:	22°C;	50 %RH;	101kPa.
Test Voltage / Freq. :	DC 3.7V		
Receipt No.:	173047572 100		
Report No.	16019616 001		
Result:	Pass		
Comment:	/		

Subrange 1  
Frequency Range: 1GHz - 18GHz  
Receiver: TUV FSP 30  
Transducer: TUV SAC HF906 / TUV FSP 30-TUV SAC HF906



Date: 9/29/2009 - Time: 10:03:14 AM

Tested by:



Reviewed by:



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Test Report no.

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

010/032

**Limit and Margin PK**

Frequency (MHz)	MaxPeak (dBµV/m)	Corr (dB)	Margin (dB)	Limit (dBµV/m)	Polarity
1602.000000	37.3	-14.0	36.7	74.0	H
3204.000000	42.5	-9.2	31.5	74.0	H
4804.000000	50.4	-5.5	23.6	74.0	H
8463.000000	46.2	1.8	27.8	74.0	H

**Limit and Margin AV**

Frequency (MHz)	Average (dBµV/m)	Corr (dB)	Margin (dB)	Limit (dBµV/m)	Polarity
1602.000000	27.2	-14.0	26.8	54.0	H
3204.000000	31.2	-9.2	22.8	54.0	H
4804.000000	39.7	-5.5	14.3	54.0	H
8463.000000	33.0	1.8	21.0	54.0	H

Date: 9/29/2009 - Time: 10:03:14 AM

Tested by:



Reviewed by:





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*Test Report no.*

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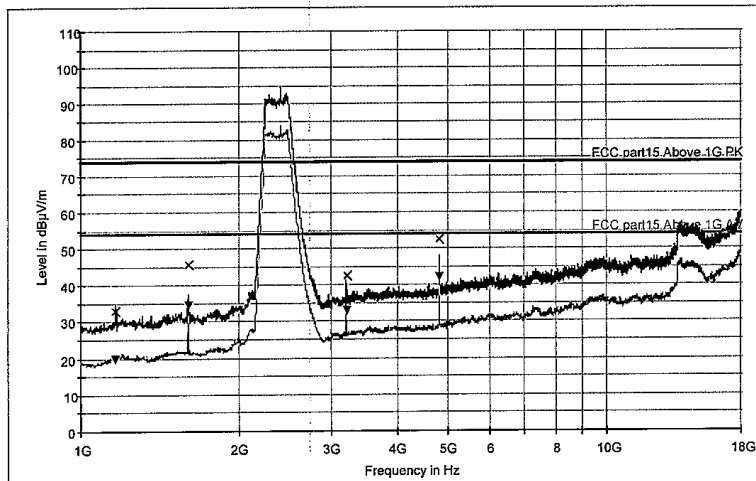
011 / 032  
EMC Test Service Hotline: +86-20-28391188

### EMC Test Record (EMISSION)


#### Test Information


Manufacturer:	K-mate		
Test Item:	Bluetooth Handfree		
Identification:	BTC003		
Test Standard:	FCC Part 15		
Test Detail:	Radiated Emission		
Operation Mode:	A(Low)		
Climate Condition:	22°C;	50 %RH;	101kPa.
Test Voltage / Freq. :	DC 3.7V		
Receipt No.:	173047572 100		
Report No.	16019616 001		
Result:	Pass		
Comment:	/		

Subrange 1  
Frequency Range: 1GHz - 18GHz  
Receiver: TUV FSP 30  
Transducer: TUV SAC HF906 / TUV FSP 30-TUV SAC HF906



Date: 9/29/2009 - Time: 9:57:38 AM

Tested by:  2009.11.02  
Checked

Reviewed by:  2009.11.02  
Checked

Prüfbericht - Nr.:

16019616 001

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Test Report no.

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: 012/032  
+86-20-28391188

**Limit and Margin PK**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Corr (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Polarity
1165.500000	32.9	-16.2	41.1	74.0	V
1602.000000	45.6	-14.0	28.4	74.0	V
3204.000000	42.6	-9.2	31.4	74.0	V
4804.000000	52.6	-5.5	21.4	74.0	V

**Limit and Margin AV**

Frequency (MHz)	Average (dB $\mu$ V/m)	Corr (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Polarity
1165.500000	19.9	-16.2	34.1	54.0	V
1602.000000	34.6	-14.0	19.4	54.0	V
3204.000000	33.1	-9.2	20.9	54.0	V
4804.000000	42.2	-5.5	11.8	54.0	V

Date: 9/29/2009 - Time: 9:57:38 AM

Tested by:



Reviewed by:



**Prüfbericht - Nr.:** 16019616 001  
*Test Report no.*

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TUV Rheinland (Guangdong) Ltd.

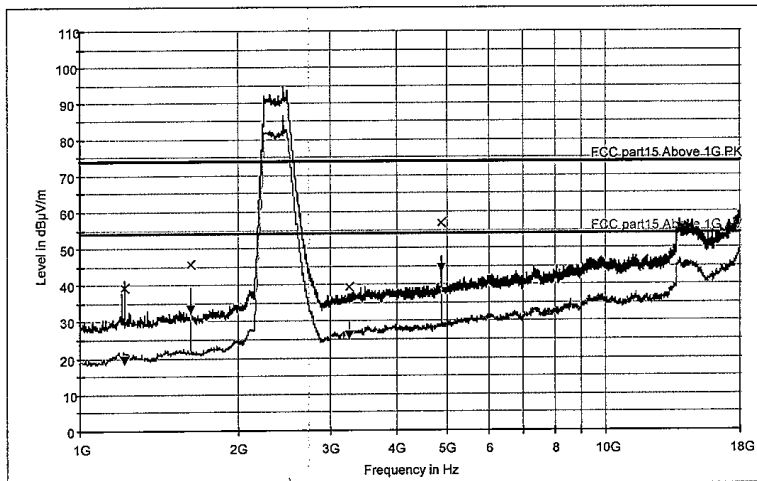
013 / 032  
EMC Test Service Hotline: +86-20-28391188

### EMC Test Record (EMISSION)

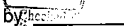
#### Test Information


Manufacturer:	K-mate		
Test Item:	Bluetooth Handfree		
Identification:	BTC003		
Test Standard:	FCC Part 15		
Test Detail:	Radiated Emission		
Operation Mode:	A(Mid)		
Climate Condition:	22°C;	50 %RH;	101kPa.
Test Voltage / Freq. :	DC 3.7V		
Receipt No.:	173047572 100		
Report No.	16019616 001		
Result:	Pass		
Comment:	/		

Subrange 1	
Frequency Range:	1GHz - 18GHz
Receiver:	TUV FSP 30
Transducer:	TUV SAC HF906 / TUV FSP 30-TUV SAC HF906



Date: 9/29/2009 - Time: 9:28:10 AM

HCH  
2009.11.02  
Tested by: 

DW  
2009.11.02  
Reviewed by:  Checked

Prüfbericht - Nr.:

16019616 001

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Test Report no.

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

014 / 032

**Limit and Margin PK**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Corr (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Polarity
1214.500000	39.1	-15.7	34.9	74.0	V
1627.000000	45.8	-13.8	28.2	74.0	V
3252.500000	39.4	-8.5	34.6	74.0	V
4882.000000	56.9	-5.6	17.1	74.0	V

**Limit and Margin AV**

Frequency (MHz)	Average (dB $\mu$ V/m)	Corr (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Polarity
1214.500000	19.4	-15.7	34.6	54.0	V
1627.000000	33.3	-13.8	20.7	54.0	V
3252.500000	26.2	-8.5	27.8	54.0	V
4882.000000	44.3	-5.6	9.7	54.0	V

Date: 9/29/2009 - Time: 9:28:10 AM

Tested by:



Reviewed by:



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TUV Rheinland (Guangdong) Ltd.

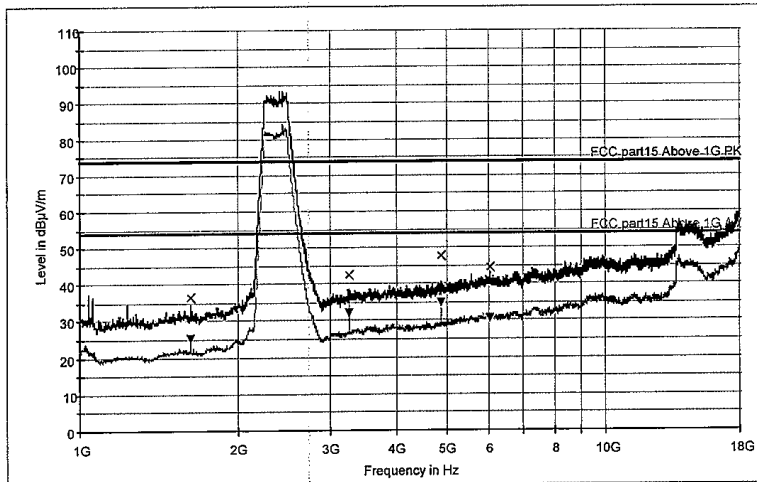
015/032  
EMC Test Service Hotline: +86-20-28391188

### EMC Test Record (EMISSION)

#### Test Information

Manufacturer:	K-mate	
Test Item:	Bluetooth Handfree	
Identification:	BTC003	
Test Standard:	FCC Part 15	
Test Detail:	Radiated Emission	
Operation Mode:	A(Mid)	
Climate Condition:	22°C;	50 %RH; 101kPa.
Test Voltage / Freq. :	DC 3.7V	
Receipt No.:	173047572 100	
Report No.	16019616 001	
Result:	Pass	
Comment:	/	

Subrange 1  
Frequency Range: 1GHz - 18GHz  
Receiver: TUV FSP 30  
Transducer: TUV SAC HF906 / TUV FSP 30-TUV SAC HF906



Date: 9/29/2009 - Time: 9:33:52 AM

Tested by: \_\_\_\_\_

Reviewed by: \_\_\_\_\_



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Test Report no.

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

016/032

**Limit and Margin PK**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Corr (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Polarity
1627.000000	36.7	-13.8	37.3	74.0	H
3253.000000	42.5	-8.5	31.5	74.0	H
4882.000000	47.8	-5.6	26.2	74.0	H
6034.000000	44.3	-3.1	29.7	74.0	H

**Limit and Margin AV**

Frequency (MHz)	Average (dB $\mu$ V/m)	Corr (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Polarity
1627.000000	25.3	-13.8	28.7	54.0	H
3253.000000	32.1	-8.5	21.9	54.0	H
4882.000000	35.1	-5.6	18.9	54.0	H
6034.000000	30.8	-3.1	23.2	54.0	H

Date: 9/29/2009 - Time: 9:33:52 AM

Tested by:



Reviewed by:



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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

017 / 032

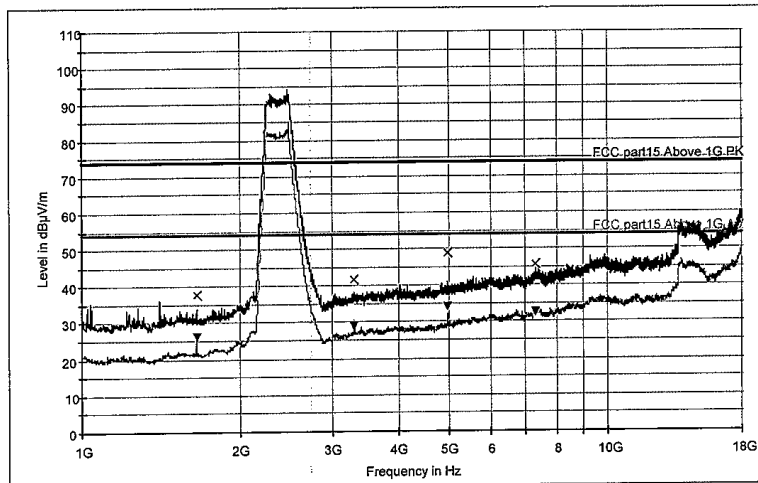
## EMC Test Record (EMISSION)

### Test Information

Manufacturer:	K-mate		
Test Item:	Bluefooth Handfree		
Identification:	BTC003		
Test Standard:	FCC Part 15		
Test Detail:	Radiated Emission		
Operation Mode:	A(High)		
Climate Condition:	22°C;	50 %RH;	101kPa.
Test Voltage / Freq. :	DC 3.7V		
Receipt No.:	173047572 100		
Report No.	16019616 001		
Result:	Pass		
Comment:	/		

#### Subrange 1

Frequency Range:	1GHz - 18GHz
Receiver:	TUV FSP 30
Transducer:	TUV SAC HF906 / TUV FSP 30-TUV SAC HF906



Date: 9/29/2009 - Time: 9:43:30 AM

Tested by:



Reviewed by:



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Test Report no.

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

018/032

**Limit and Margin PK**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Polarity
1653.000000	37.8	-13.6	36.2	74.0	H
3305.500000	41.6	-8.0	32.4	74.0	H
4960.000000	49.0	-5.8	25.0	74.0	H
7311.000000	45.6	0.4	28.4	74.0	H

**Limit and Margin AV**

Frequency (MHz)	Average (dB $\mu$ V/m)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Polarity
1653.000000	26.3	-13.6	27.7	54.0	H
3305.500000	29.1	-8.0	24.9	54.0	H
4960.000000	34.0	-5.8	20.0	54.0	H
7311.000000	32.4	0.4	21.6	54.0	H

Date: 9/29/2009 - Time: 9:43:30 AM

Tested by: \_\_\_\_\_ Reviewed by: \_\_\_\_\_





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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

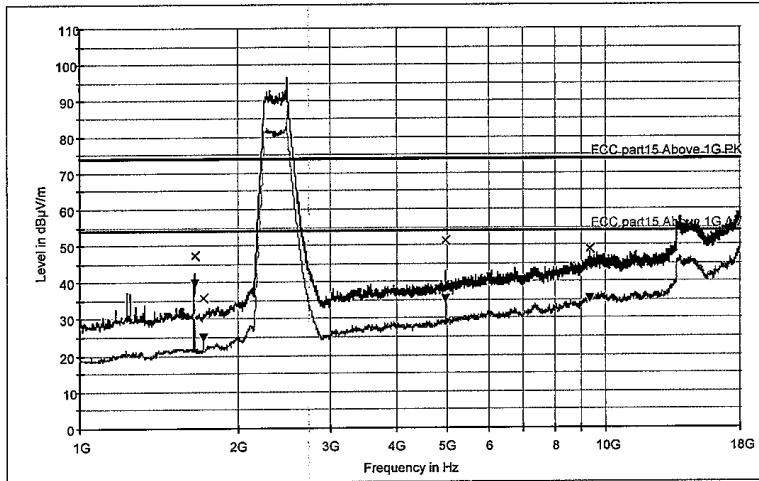
019 / 032

### EMC Test Record (EMISSION)

#### Test Information

Manufacturer:	K-mate		
Test Item:	Bluetooth Handfree		
Identification:	BTC003		
Test Standard:	FCC Part 15		
Test Detail:	Radiated Emission		
Operation Mode:	A(High)		
Climate Condition:	22°C;	50 %RH;	101kPa.
Test Voltage / Freq. :	DC 3.7V		
Receipt No.:	173047572 100		
Report No.	16019616 001		
Result:	Pass		
Comment:	/		

Subrange 1	
Frequency Range:	1GHz - 18GHz
Receiver:	TUV FSP 30
Transducer:	TUV SAC HF906 / TUV FSP 30-TUV SAC HF906



Date: 9/29/2009 - Time: 9:50:21 AM

Tested by: \_\_\_\_\_

Reviewed by: \_\_\_\_\_



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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

020/032

**Limit and Margin PK**

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarity
1653.000000	47.2	-13.6	26.8	74.0	V
1720.500000	35.6	-13.2	38.4	74.0	V
4960.000000	51.1	-5.8	22.9	74.0	V
9334.000000	48.6	4.4	25.4	74.0	V

**Limit and Margin AV**

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarity
1653.000000	39.9	-13.6	14.1	54.0	V
1720.500000	25.1	-13.2	28.9	54.0	V
4960.000000	35.2	-5.8	18.8	54.0	V
9334.000000	35.3	4.4	18.7	54.0	V

Date: 9/29/2009 - Time: 9:50:21 AM

Tested by: \_\_\_\_\_

Reviewed by: \_\_\_\_\_



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021 / 032

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

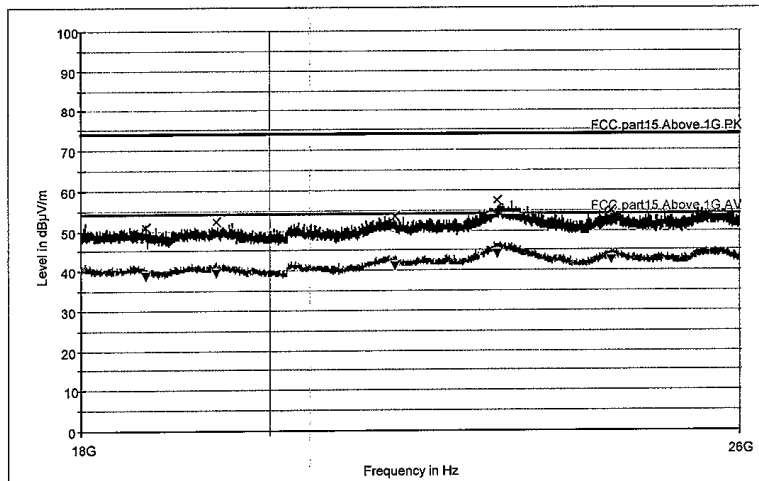
### EMC Test Record (EMISSION)

#### Test Information

Manufacturer:	K-mate		
Test Item:	Bluetooth Handfree		
Identification:	BTC003		
Test Standard:	FCC Part 15		
Test Detail:	Radiated Emission		
Operation Mode:	A(Low)		
Climate Condition:	22°C;	50 %RH;	101kPa.
Test Voltage / Freq. :	DC 3.7V		
Receipt No.:	173047572 100		
Report No.	16019616 001		
Result:	Pass:		
Comment:	/		

#### Subrange 1

Frequency Range:	18GHz - 26GHz
Receiver:	TUV FSP 30
Transducer:	TUV SAC 3160-09 / TUV FSP 30-TUV SAC 3160-09



Date: 11/2/2009 - Time: 9:42:16 AM

Tested by: \_\_\_\_\_

Reviewed by: \_\_\_\_\_



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Test Report no.

022/032

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

**Limit and Margin PK**

Frequency (MHz)	MaxPeak (dBµV/m)	Corr (dB)	Margin (dB)	Limit (dBµV/m)	Polarity
18665.000000	51.0	5.8	23.0	74.0	H
19413.000000	52.2	6.4	21.8	74.0	H
21449.000000	53.5	7.5	20.5	74.0	H
22708.000000	57.5	10.5	16.5	74.0	H
24195.000000	55.0	7.6	19.0	74.0	H

**Limit and Margin AV**

Frequency (MHz)	Average (dBµV/m)	Corr (dB)	Margin (dB)	Limit (dBµV/m)	Polarity
18665.000000	38.7	5.8	15.3	54.0	H
19413.000000	39.4	6.4	14.6	54.0	H
21449.000000	41.2	7.5	12.8	54.0	H
22708.000000	44.2	10.5	9.8	54.0	H
24195.000000	42.6	7.6	11.4	54.0	H

Date: 11/2/2009 - Time: 9:42:16 AM

Tested by:



Reviewed by:



**Prüfbericht - Nr.:** 16019616 001  
*Test Report no.*

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

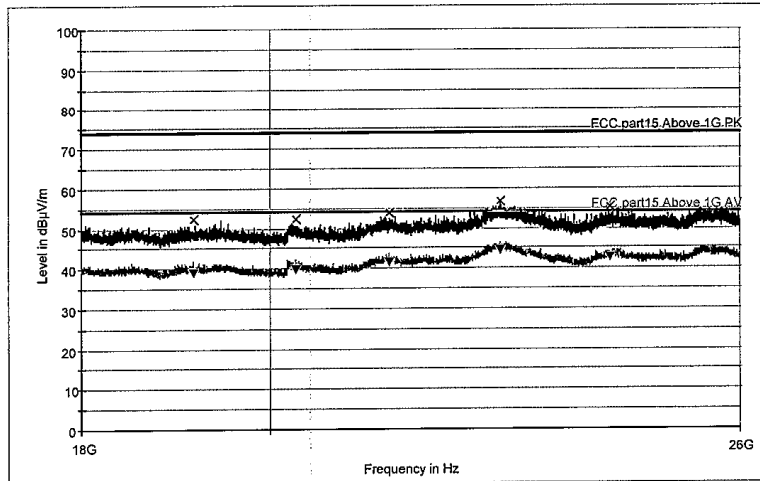
023 / 032

### EMC Test Record (EMISSION)

#### Test Information

Manufacturer:	K-mate
Test Item:	Bluetooth Handfree
Identification:	BTC003
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	A(Low)
Climate Condition:	22°C; 50 %RH; 101kPa.
Test Voltage / Freq. :	DC 3.7V
Receipt No.:	173047572 100
Report No.:	16019616 001
Result:	Pass
Comment:	/

Subrange 1  
Frequency Range: 18GHz - 26GHz  
Receiver: TUV FSP 30  
Transducer: TUV SAC 3160-09 / TUV FSP 30-TUV SAC 3160-09



Date: 11/2/2009 - Time: 9:57:28 AM

Tested by:



Reviewed by:



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Test Report no.

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

**Limit and Margin PK**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Polarity
19163.000000	52.2	6.3	21.8	74.0	V
20295.000000	52.4	6.2	21.6	74.0	V
21389.000000	53.8	7.6	20.2	74.0	V
22754.000000	56.8	10.4	17.2	74.0	V
24182.000000	55.1	7.6	18.9	74.0	V

**Limit and Margin AV**

Frequency (MHz)	Average (dB $\mu$ V/m)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Polarity
19163.000000	39.2	6.3	14.8	54.0	V
20295.000000	39.7	6.2	14.3	54.0	V
21389.000000	41.4	7.6	12.6	54.0	V
22754.000000	44.3	10.4	9.7	54.0	V
24182.000000	42.5	7.6	11.5	54.0	V



Date: 11/2/2009 - Time: 9:57:28 AM

Tested by: \_\_\_\_\_ Reviewed by: \_\_\_\_\_

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

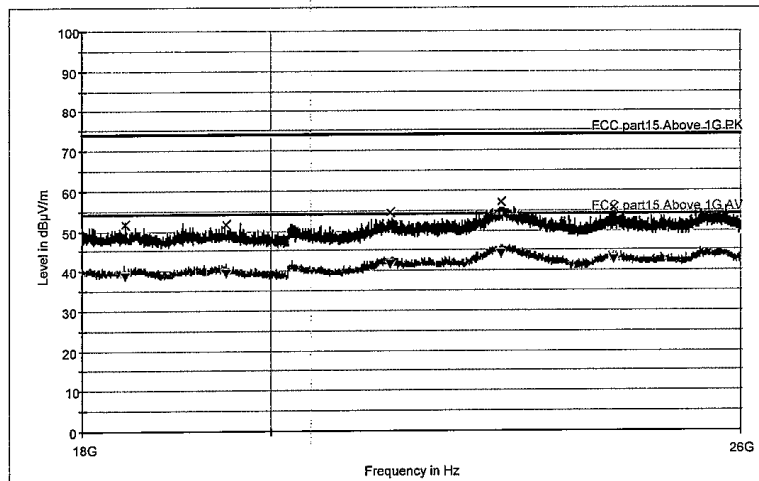
025 / 032

### EMC Test Record (EMISSION)

#### Test Information

Manufacturer:	K-mate		
Test Item:	Bluetooth Handfree		
Identification:	BTC003		
Test Standard:	FCC Part 15		
Test Detail:	Radiated Emission		
Operation Mode:	A(Mid)		
Climate Condition:	22°C;	50 %RH;	101kPa.
Test Voltage / Freq. :	DC 3.7V		
Receipt No.:	173047572 100		
Report No.	16019616 001		
Result:	Pass		
Comment:	/		

Subrange 1  
Frequency Range: 18GHz - 26GHz  
Receiver: TUV FSP 30  
Transducer: TUV SAC 3160-09 / TUV FSP 30-TUV SAC 3160-09



Date: 11/2/2009 - Time: 9:54:29 AM

Tested by:



Reviewed by:



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Test Report no.

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

026 / 032

**Limit and Margin PK**

Frequency (MHz)	MaxPeak (dBµV/m)	Corr (dB)	Margin (dB)	Limit (dBµV/m)	Polarity
18444.000000	51.5	5.5	22.5	74.0	V
19504.000000	51.6	6.4	22.4	74.0	V
21379.000000	54.4	7.6	19.6	74.0	V
22743.000000	57.0	10.4	17.0	74.0	V
24224.000000	55.5	7.6	18.5	74.0	V

**Limit and Margin AV**

Frequency (MHz)	Average (dBµV/m)	Corr (dB)	Margin (dB)	Limit (dBµV/m)	Polarity
18444.000000	38.6	5.5	15.4	54.0	V
19504.000000	39.4	6.4	14.6	54.0	V
21379.000000	41.4	7.6	12.6	54.0	V
22743.000000	44.2	10.4	9.8	54.0	V
24224.000000	42.6	7.6	11.4	54.0	V

Date: 11/2/2009 - Time: 9:54:29 AM

Tested by:



Reviewed by:





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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

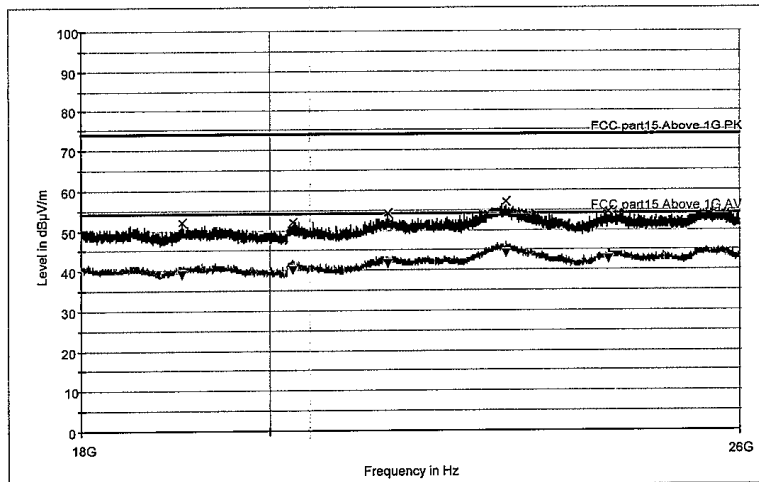
027 / 032

### EMC Test Record (EMISSION)

#### Test Information

Manufacturer:	K-mate
Test Item:	Bluetooth Handfree
Identification:	BTC003
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	A(Mid)
Climate Condition:	22°C; 50 %RH; 101kPa.
Test Voltage / Freq. :	DC 3.7V
Receipt No.:	173047572 100
Report No.:	16019616 001
Result:	Pass
Comment:	/

Subrange 1  
Frequency Range: 18GHz - 26GHz  
Receiver: TUV FSP 30  
Transducer: TUV SAC 3160-09 / TUV FSP 30-TUV SAC 3160-09



Date: 11/2/2009 - Time: 9:45:30 AM

Tested by:



Reviewed by:



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Test Report no.

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

028/032

**Limit and Margin PK**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Polarity
19037.000000	51.9	6.2	22.1	74.0	H
20264.000000	52.1	6.2	21.9	74.0	H
21358.000000	54.0	7.5	20.0	74.0	H
22824.000000	57.2	10.2	16.8	74.0	H
24167.000000	54.6	7.6	19.4	74.0	H

**Limit and Margin AV**

Frequency (MHz)	Average (dB $\mu$ V/m)	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Polarity
19037.000000	39.0	6.2	15.0	54.0	H
20264.000000	40.0	6.2	14.0	54.0	H
21358.000000	41.4	7.5	12.6	54.0	H
22824.000000	44.2	10.2	9.8	54.0	H
24167.000000	42.4	7.6	11.6	54.0	H

Date: 11/2/2009 - Time: 9:45:30 AM

Tested by: \_\_\_\_\_



Reviewed by: \_\_\_\_\_

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +8620-28391188

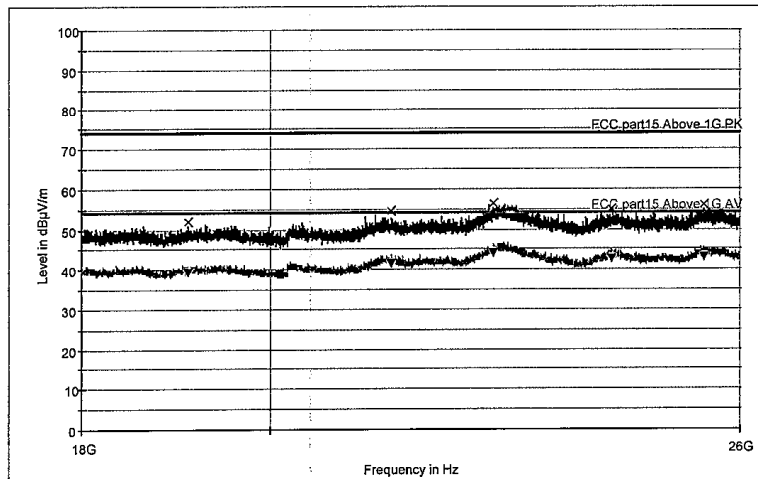
029 / 032

### EMC Test Record (EMISSION)

#### Test Information

Manufacturer:	K-mate
Test Item:	Bluetooth Handfree
Identification:	BTC003
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	A(High)
Climate Condition:	22°C; 50 %RH; 101kPa.
Test Voltage / Freq. :	DC 3.7V
Receipt No.:	173047572 100
Report No.	16019616 001
Result:	Pass
Comment:	/

Subrange 1  
Frequency Range: 18GHz - 26GHz  
Receiver: TUV FSP 30  
Transducer: TUV SAC 3160-09 / TUV FSP 30-TUV SAC 3160-09



Date: 11/2/2009 - Time: 9:48:50 AM

Tested by:



Reviewed by:



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Test Report no.

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

030/032

**Limit and Margin PK**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Corr (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Polarity
19108.000000	51.8	6.3	22.2	74.0	H
21394.000000	54.4	7.6	19.6	74.0	H
22666.000000	56.3	10.5	17.7	74.0	H
24212.000000	55.0	7.6	19.0	74.0	H
25485.000000	56.0	8.9	18.0	74.0	H

**Limit and Margin AV**

Frequency (MHz)	Average (dB $\mu$ V/m)	Corr (dB)	Margin (dB)	Limit (dB $\mu$ V/m)	Polarity
19108.000000	39.2	6.3	14.8	54.0	H
21394.000000	41.5	7.6	12.5	54.0	H
22666.000000	43.9	10.5	10.1	54.0	H
24212.000000	42.5	7.6	11.5	54.0	H
25485.000000	43.0	8.9	11.0	54.0	H

Date: 11/2/2009 - Time: 9:48:50 AM

Tested by:



Reviewed by:



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EMC Test Service Hotline: +86-20-28391188

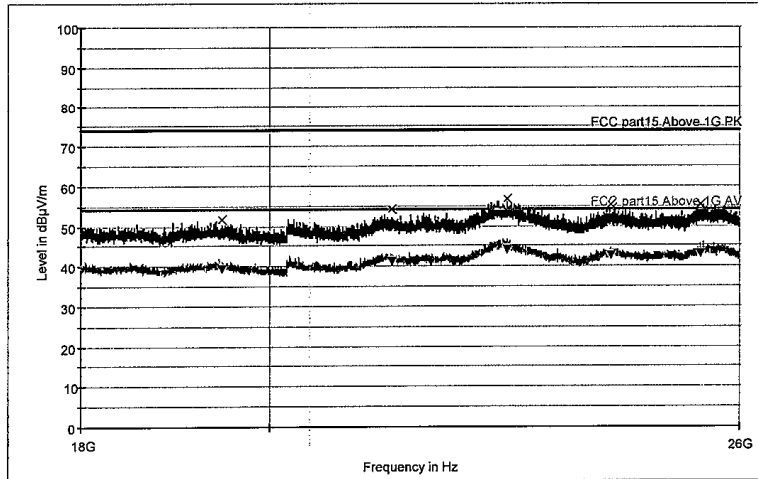
031 / 032

### EMC Test Record (EMISSION)

#### Test Information

Manufacturer:	K-mate
Test Item:	Bluetooth Handfree
Identification:	BTC003
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	A(High)
Climate Condition:	22°C; 50 %RH; 101kPa.
Test Voltage / Freq. :	DC 3.7V
Receipt No.:	173047572 100
Report No.:	16019616 001
Result:	Pass
Comment:	/

Subrange 1  
Frequency Range: 18GHz - 26GHz  
Receiver: TUV FSP 30  
Transducer: TUV SAC 3160-09 / TUV FSP 30-TUV SAC 3160-09



Date: 11/2/2009 - Time: 9:51:32 AM

Tested by:



Reviewed by:



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EMC Test Service Hotline: +86-20-28391188

032/032

**Limit and Margin PK**

Frequency (MHz)	MaxPeak (dBµV/m)	Corr (dB)	Margin (dB)	Limit (dBµV/m)	Polarity
19471.000000	51.7	6.4	22.3	74.0	V
21415.000000	54.1	7.6	19.9	74.0	V
22847.000000	56.7	10.1	17.3	74.0	V
24207.000000	55.3	7.6	18.7	74.0	V
25449.000000	55.1	8.9	18.9	74.0	V

**Limit and Margin AV**

Frequency (MHz)	Average (dBµV/m)	Corr (dB)	Margin (dB)	Limit (dBµV/m)	Polarity
19471.000000	39.5	6.4	14.5	54.0	V
21415.000000	41.3	7.6	12.7	54.0	V
22847.000000	44.1	10.1	9.9	54.0	V
24207.000000	42.5	7.6	11.5	54.0	V
25449.000000	43.0	8.9	11.0	54.0	V

Date: 11/2/2009 - Time: 9:51:32 AM

Tested by:



Reviewed by:

