

Prüfbericht - Nr.:

16034488 001

Test Report No.

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (EMISSION)

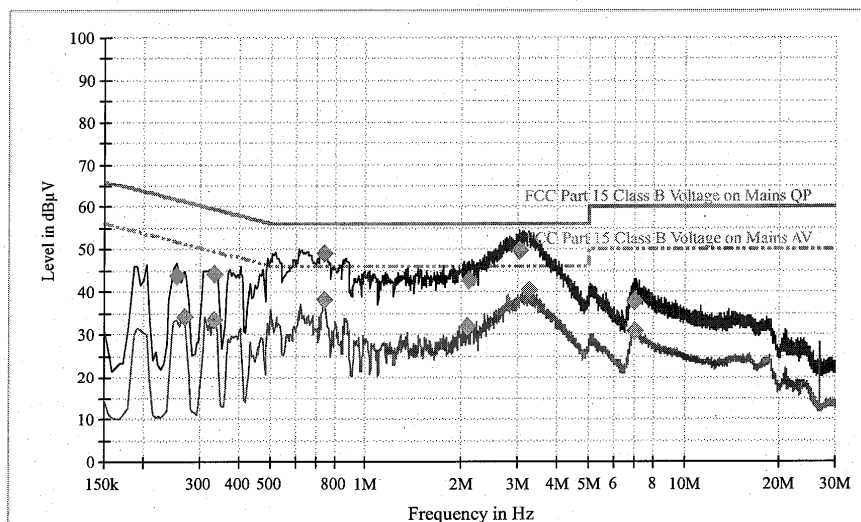
Test Information

Manufacturer: ION
Test Item: Wireless speaker
Identification: iSPOF FREESOUND
Test Standard: FCC Part 15 B
Test Detail: Conducted Emission
Operation Mode: A
Climate Condition: 22 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq.: AC 120 V/ 60 Hz
Port / Line: AC Mains(L1+N)
Receipt No.: 173061380
Report No.: 16034488 001
Result: Pass
Comment: /

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

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

FCC PART15 DV ESH3-Z5 150k to 30M ESCI



Sign-off Test Data

8/9/2011, 2:04:49

Tested by:



Reviewed by:



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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.253500	43.6	1000.0	9.000	GN	L1	10.1	18.0	61.6	
0.334500	44.1	1000.0	9.000	GN	L1	9.9	15.2	59.3	
0.739500	48.8	1000.0	9.000	GN	L1	10.0	7.2	56.0	
2.121000	42.8	1000.0	9.000	GN	L1	10.1	13.2	56.0	
3.043500	49.7	1000.0	9.000	GN	N	10.2	6.3	56.0	
6.999000	37.6	1000.0	9.000	GN	N	10.5	22.4	60.0	

Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.267000	34.0	1000.0	9.000	GN	L1	9.9	17.2	51.2	
0.334500	33.4	1000.0	9.000	GN	L1	9.9	15.9	49.3	
0.739500	38.0	1000.0	9.000	GN	N	10.0	8.0	46.0	
2.094000	31.9	1000.0	9.000	GN	L1	10.1	14.1	46.0	
3.250500	40.4	1000.0	9.000	GN	N	10.3	5.6	46.0	
7.003500	30.9	1000.0	9.000	GN	N	10.5	19.1	50.0	

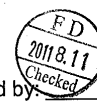
Sign-off Test Data

8/9/2011, 2:04:49

Tested by:



Reviewed by:



Prüfbericht - Nr.:

16034488 001

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

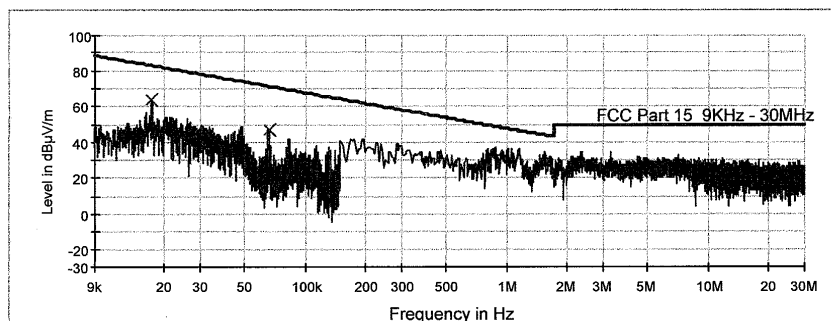
EMC Test Record (Emission)

Common Information

Manufacturer: ION
Test Item: Wireless speaker
Identification: iSPOF FREESOUND
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 173061380
Report No: 16034488 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 9kHz - 30MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3

Pre TUV 9K to 30M HFH2-Z2



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
0.017320	---	63.4	20.7	---	---	H
0.065720	---	46.5	20.3	---	---	H
0.878000	33.1	---	20.3	15.6	48.7	H
7.066000	27.8	---	21.9	21.7	49.5	H

Sign-off Test Data

Date: 8/11/2011 - Time: 8:50:24

Tested by:

Reviewed by:



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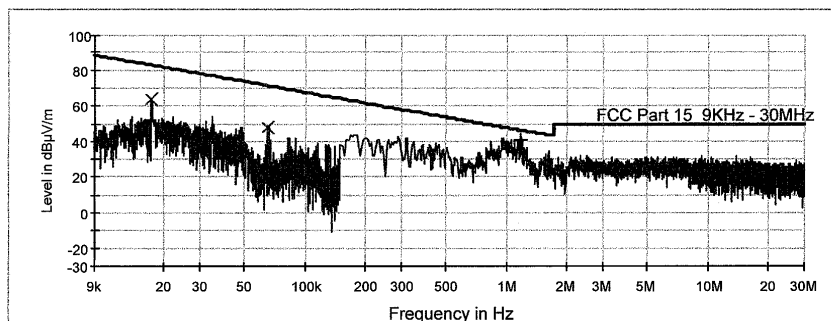
EMC Test Record (Emission)

Common Information

Manufacturer: ION
Test Item: Wireless speaker
Identification: ISPOF FREESOUND
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 173061380
Report No: 16034488 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 9kHz - 30MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3

Pre TUV 9K to 30M HFH2-Z2



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
0.017320	---	64.1	20.7	---	---	V
0.065640	---	48.0	20.3	---	---	V
1.186000	41.0	---	20.3	5.1	46.1	V
7.322000	26.8	---	21.9	22.7	49.5	V

Sign-off Test Data

Date: 8/11/2011 - Time: 8:59:04

Tested by:



Reviewed by:



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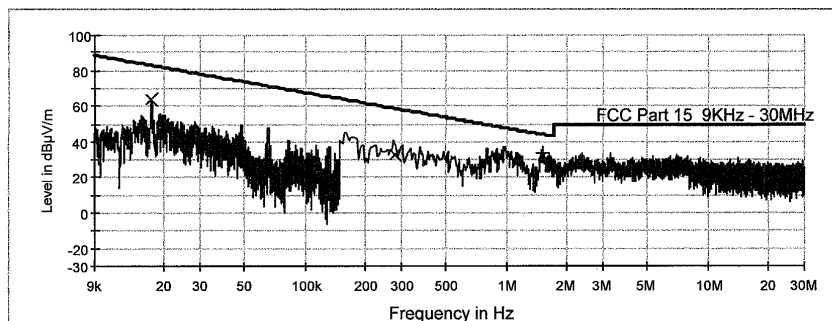
EMC Test Record (Emission)

Common Information

Manufacturer: ION
Test Item: Wireless speaker
Identification: ISPOF FREESOUND
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 173061380
Report No: 16034488 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 9kHz - 30MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3

Pre TUV 9K to 30M HFH2-Z2



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
0.017320	---	63.3	20.7	---	---	H
0.278000	---	32.9	20.9	---	---	H
1.518000	33.9	---	20.2	10.1	44.0	H
6.930000	28.0	---	21.9	21.5	49.5	H

Sign-off Test Data

Date: 8/11/2011 - Time: 9:17:29

Tested by:



Reviewed by:



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EMC Test Service Hotline: +86-20-28391188

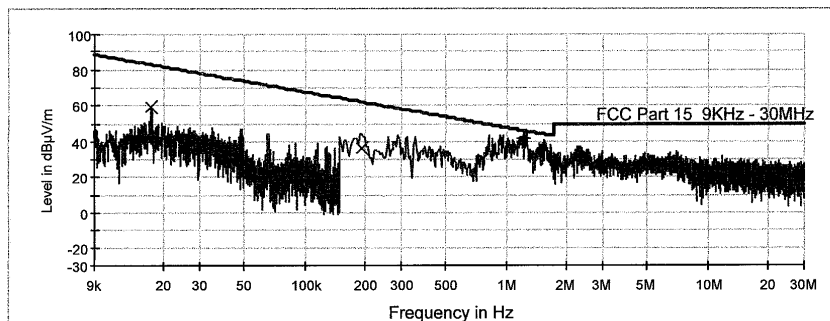
EMC Test Record (Emission)

Common Information

Manufacturer: ION
Test Item: Wireless speaker
Identification: iSPOF FREESOUND
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 173061380
Report No: 16034488 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 9kHz - 30MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3

Pre TUV 9K to 30M HFH2-Z2



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
0.017320	---	59.5	20.7	---	---	V
0.190000	---	36.6	20.8	---	---	V
1.230000	41.2	---	20.3	4.6	45.8	V
2.318000	33.0	---	20.3	16.5	49.5	V

Sign-off Test Data

Date: 8/11/2011 - Time: 9:12:22

Tested by:



Reviewed by:



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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer: ION
Test Item: Wireless speaker
Identification: iSPOF FREESOUND
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 173061380
Report No: 16034488 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1

Frequency Range:

9kHz - 30MHz

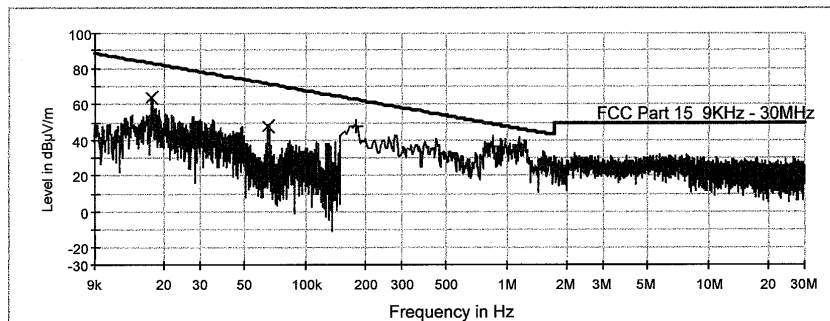
Receiver:

TUV ESCI 3

Transducer:

TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3

Pre TUV 9K to 30M HFH2-Z2





Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
0.017320	---	64.0	20.7	---	---	H
0.065640	---	47.7	20.3	---	---	H
0.178000	47.4	---	20.8	15.2	62.6	H
0.850000	36.1	---	20.4	12.9	49.0	H

Sign-off Test Data

Date: 8/11/2011 - Time: 9:31:14

Tested by:  Reviewed by: 

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EMC Test Service Hotline: +86-20-28391188

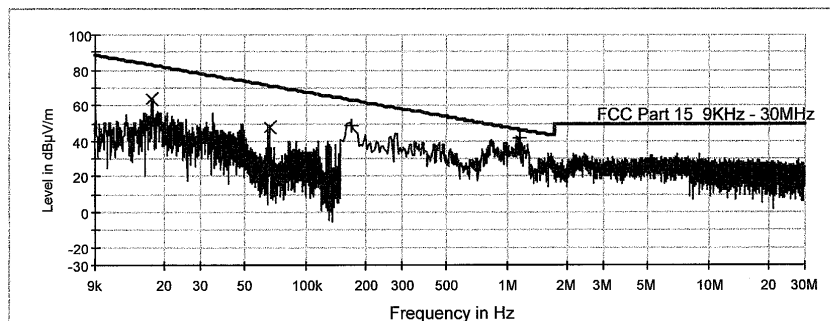
EMC Test Record (Emission)

Common Information

Manufacturer: ION
Test Item: Wireless speaker
Identification: iSPOF FREESOUND
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 173061380
Report No: 16034488 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 9kHz - 30MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3

Pre TUV 9K to 30M HFH2-Z2



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
0.017320	---	63.9	20.7	---	---	V
0.065720	---	47.5	20.3	---	---	V
0.170000	48.7	---	20.7	14.3	63.0	V
1.154000	41.4	---	20.3	5.0	46.4	V

Sign-off Test Data

Date: 8/11/2011 - Time: 9:42:19

Tested by:



Reviewed by:



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EMC Test Service Hotline: +86-20-28391188

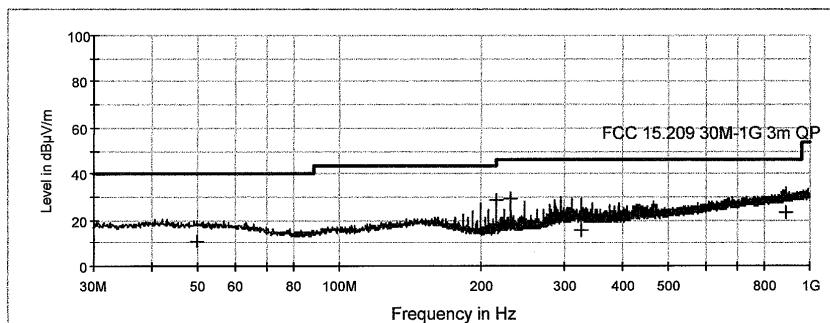
EMC Test Record (Emission)

Common Information

Manufacturer: ION
Test Item: Wireless speaker
Identification: iSPOF FREESOUND
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 173061380
Report No: 16034488 001
Result: Pass
Comment: Test distance is 3m, Horizontal

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

FCC 15.209 30M-1G sweep



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin-QPK (dB)	Limit - QPK (dBµV/m)	Polarization
50.000000	10.7	14.6	29.3	40.0	H
216.000000	28.3	12.6	17.7	46.0	H
232.000000	29.3	13.6	16.7	46.0	H
296.000000	22.3	15.4	23.7	46.0	H
328.050000	15.4	16.3	30.6	46.0	H
891.250000	23.2	26.4	22.8	46.0	H

Sign-off Test Data

Date: 8/11/2011 - Time: 5:21:25

Tested by: 

Reviewed by:



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TUV Rheinland (Guangdong) Ltd.

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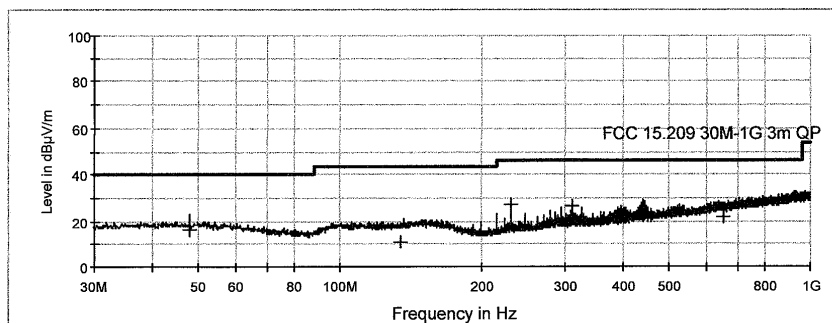
EMC Test Record (Emission)

Common Information

Manufacturer: ION
Test Item: Wireless speaker
Identification: ISPOF FREESOUND
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 173061380
Report No: 16034488 001
Result: Pass
Comment: Test distance is 3m, Vertical

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

FCC 15.209 30M-1G sweep



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)	Polarization
47.950000	16.1	14.6	23.9	40.0	V
135.000000	10.9	14.9	32.6	43.5	V
232.000000	27.2	13.6	18.8	46.0	V
312.050000	26.5	15.8	19.5	46.0	V
440.550000	22.8	19.1	23.2	46.0	V
656.000000	21.7	23.3	24.3	46.0	V

Sign-off Test Data

Date: 8/11/2011 - Time: 5:01:26

Tested by:



Reviewed by:



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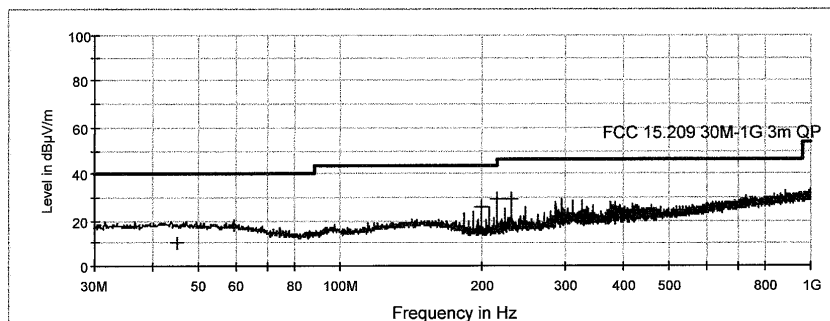
EMC Test Record (Emission)

Common Information

Manufacturer: ION
Test Item: Wireless speaker
Identification: iSPOF FREESOUND
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 173061380
Report No: 16034488 001
Result: Pass
Comment: Test distance is 3m, Horizontal

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

FCC 15.209 30M-1G sweep



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)	Polarization
45.150000	10.3	14.7	29.7	40.0	H
200.000000	25.9	12.1	17.6	43.5	H
216.000000	28.9	12.6	17.1	46.0	H
232.000000	29.0	13.6	17.0	46.0	H
296.000000	21.9	15.4	24.1	46.0	H
384.050000	21.2	17.6	24.8	46.0	H

Sign-off Test Data

Date: 8/11/2011 - Time: 5:36:53

Tested by: _____ Reviewed by: _____



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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

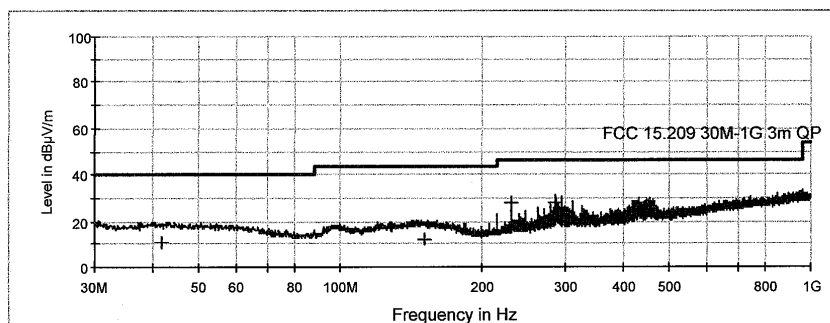
EMC Test Record (Emission)

Common Information

Manufacturer: ION
Test Item: Wireless speaker
Identification: iSPOF FREESOUND
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 173061380
Report No: 16034488 001
Result: Pass
Comment: Test distance is 3m, Vertical

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

FCC 15.209 30M-1G sweep





Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin-QPK (dB)	Limit-QPK (dBµV/m)	Polarization
41.900000	11.2	14.9	28.8	40.0	V
151.750000	12.1	16.1	31.4	43.5	V
232.000000	27.7	13.6	18.3	46.0	V
288.000000	27.8	15.2	18.2	46.0	V
296.000000	25.2	15.4	20.8	46.0	V
442.500000	23.0	19.1	23.0	46.0	V

Sign-off Test Data

Date: 8/11/2011 - Time: 5:33:25

Tested by:  2011.8.11

Reviewed by:  2011.8.11

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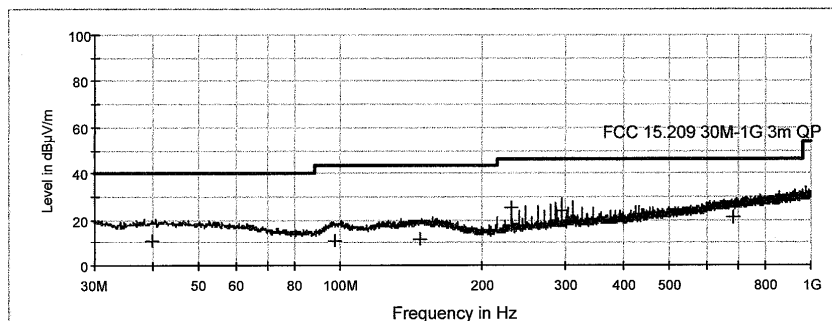
EMC Test Record (Emission)

Common Information

Manufacturer: ION
Test Item: Wireless speaker
Identification: ISPOF FREESOUND
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 173061380
Report No: 16034488 001
Result: Pass
Comment: Test distance is 3m, Vertical

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

FCC 15.209 30M-1G sweep



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)	Polarization
39.800000	11.2	15.0	28.8	40.0	V
97.650000	11.1	11.5	32.4	43.5	V
147.350000	11.6	15.8	31.9	43.5	V
232.000000	24.9	13.6	21.1	46.0	V
296.000000	24.1	15.4	21.9	46.0	V
685.350000	20.8	23.7	25.2	46.0	V

Sign-off Test Data

Date: 8/11/2011 - Time: 5:29:13

Tested by:

Reviewed by:



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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

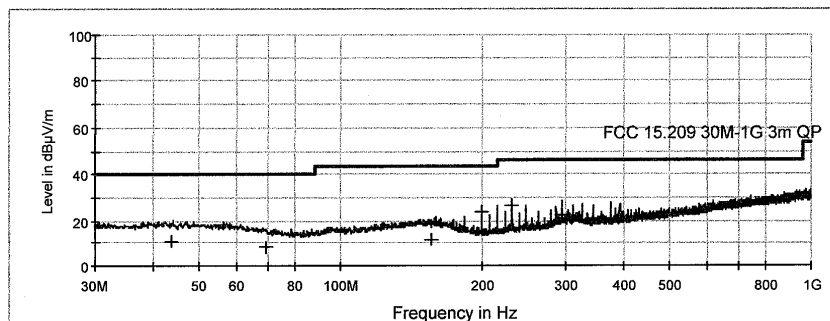
EMC Test Record (Emission)

Common Information

Manufacturer: ION
Test Item: Wireless speaker
Identification: iSPOF FREESOUND
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 173061380
Report No: 16034488 001
Result: Pass
Comment: Test distance is 3m, Horizontal

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

FCC 15.209 30M-1G sweep



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)	Polarization
43.600000	10.8	14.8	29.2	40.0	H
69.650000	8.3	12.1	31.7	40.0	H
166.450000	11.8	16.1	31.7	43.5	H
200.000000	23.7	12.1	19.8	43.5	H
232.000000	26.5	13.6	19.5	46.0	H
296.000000	22.4	15.4	23.6	46.0	H

Sign-off Test Data

Date: 8/11/2011 - Time: 5:25:55

Tested by:  Reviewed by: 

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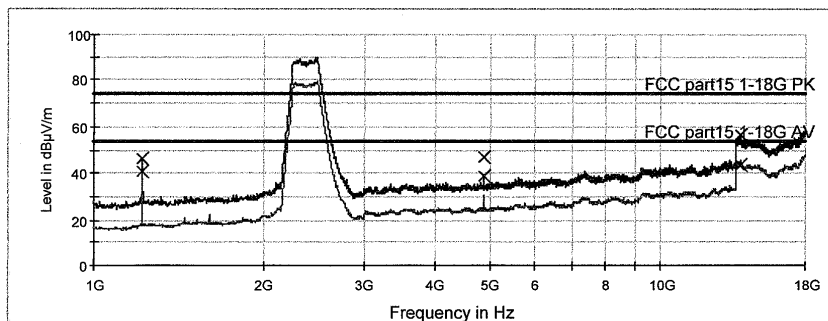
EMC Test Record (Emission)

Common Information

Manufacturer: ION
Test Item: Wireless speaker
Identification: iSPOF FREESOUND
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 173061380
Report No: 16034488 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV FSP30
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
1219.000000	46.2	-15.4	27.8	74.0	H
4882.000000	47.1	-5.4	26.9	74.0	H
13863.000000	56.7	10.1	17.3	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
1219.000000	40.7	-15.4	13.3	54.0	H
4882.000000	38.8	-5.4	15.2	54.0	H
13863.000000	43.8	10.1	10.2	54.0	H

Sign-off Test Data

Date: 8/11/2011 - Time: 6:48:00

Tested by: 

Reviewed by: 

Prüfbericht - Nr.:

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

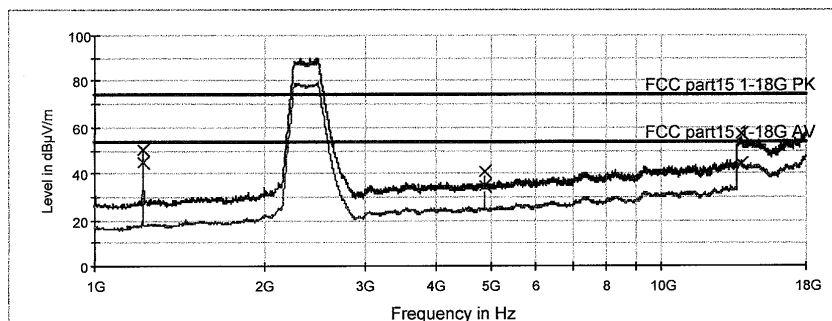
EMC Test Record (Emission)

Common Information

Manufacturer: ION
Test Item: Wireless speaker
Identification: ISPOF FREESOUND
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 173061380
Report No: 16034488 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV FSP30
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
1218.875000	50.4	-15.4	23.6	74.0	V
4880.250000	40.5	-5.4	33.5	74.0	V
13830.750000	56.9	10.2	17.1	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
1218.875000	45.2	-15.4	8.8	54.0	V
4880.250000	34.5	-5.4	19.5	54.0	V
13830.750000	44.3	10.2	9.7	54.0	V

Sign-off Test Data

Date: 8/11/2011 - Time: 6:27:20

Tested by:  Reviewed by: 



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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer: ION
Test Item: Wireless speaker
Identification: iSPOF FREESOUND
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 173061380
Report No: 16034488 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1

Frequency Range:

1GHz-18GHz

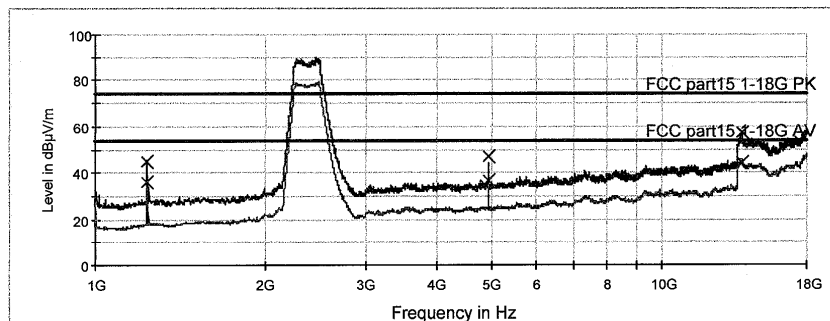
Receiver:

TUV FSP30

Transducer:

TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Polarization
1236.000000	45.2	-15.2	28.8	74.0	V
4948.000000	47.2	-5.6	26.8	74.0	V
13831.000000	57.4	10.2	16.6	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBuV/m)	Polarization
1236.000000	36.1	-15.2	17.9	54.0	V
4948.000000	36.9	-5.6	17.1	54.0	V
13831.000000	44.3	10.2	9.7	54.0	V

Sign-off Test Data

Date: 8/11/2011 - Time: 6:13:49

Tested by:

Reviewed by:



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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

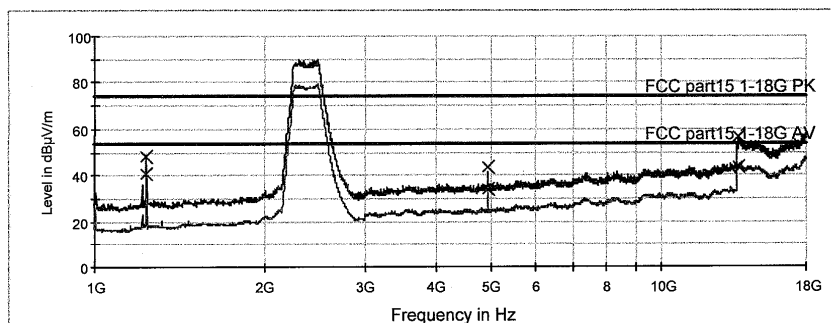
EMC Test Record (Emission)

Common Information

Manufacturer: ION
Test Item: Wireless speaker
Identification: iSPOF FREESOUND
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 173061380
Report No: 16034488 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV FSP30
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
1236.000000	48.2	-15.2	25.8	74.0	V
4948.000000	43.6	-5.6	30.4	74.0	V
13716.000000	56.3	9.3	17.7	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
1236.000000	41.1	-15.2	12.9	54.0	V
4948.000000	34.3	-5.6	19.7	54.0	V
13716.000000	43.4	9.3	10.6	54.0	V

Sign-off Test Data

Date: 8/11/2011 - Time: 6:18:27

Tested by:



Reviewed by:



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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

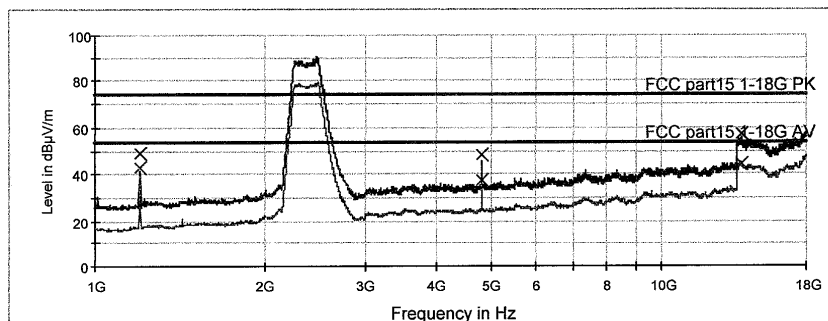
EMC Test Record (Emission)

Common Information

Manufacturer: ION
Test Item: Wireless speaker
Identification: iSPOF FREESOUND
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 173061380
Report No: 16034488 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV FSP30
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
1204.000000	48.9	-15.5	25.1	74.0	V
4817.000000	48.6	-5.3	25.4	74.0	V
13852.000000	57.0	10.3	17.0	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
1204.000000	42.6	-15.5	11.4	54.0	V
4817.000000	37.1	-5.3	16.9	54.0	V
13852.000000	44.1	10.3	9.9	54.0	V

Sign-off Test Data

Date: 8/11/2011 - Time: 6:07:34

Tested by:



Reviewed by:



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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

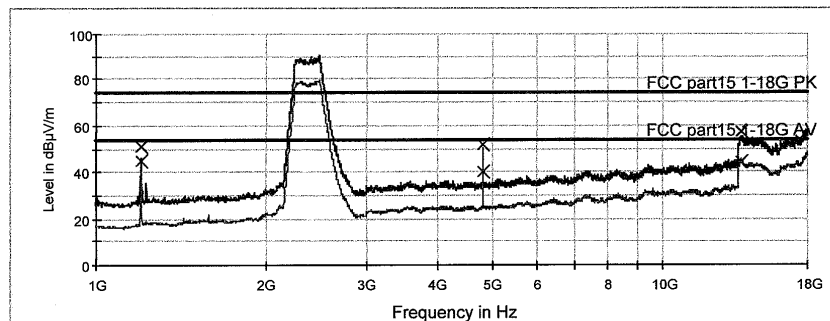
EMC Test Record (Emission)

Common Information

Manufacturer: ION
Test Item: Wireless speaker
Identification: iSPOF FREESOUND
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 173061380
Report No: 16034488 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 1GHz-18GHz
Receiver: TUV FSP30
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)	Polarization
1204.000000	51.2	-15.5	22.8	74.0	H
4817.000000	51.5	-5.3	22.5	74.0	H
13801.000000	56.9	9.9	17.1	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBuV/m)	Polarization
1204.000000	45.1	-15.5	8.9	54.0	H
4817.000000	40.1	-5.3	13.9	54.0	H
13801.000000	44.0	9.9	10.0	54.0	H

Sign-off Test Data

Date: 8/11/2011 - Time: 5:57:21

Tested by:



Reviewed by:



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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

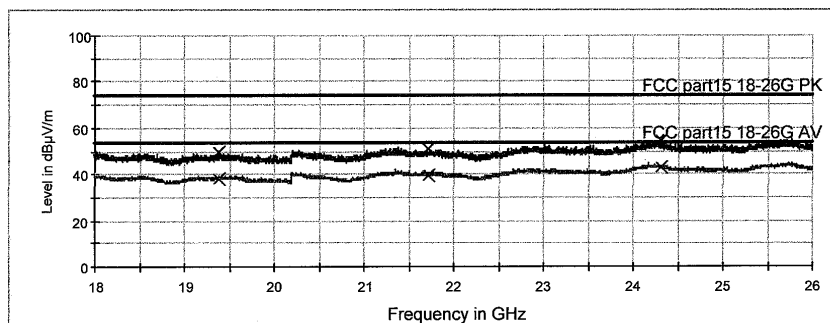
EMC Test Record (Emission)

Common Information

Manufacturer: ION
Test Item: Wireless speaker
Identification: ISPOF FREESOUND
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 173061380
Report No: 16034488 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
19383.000000	49.5	5.9	24.5	74.0	H
21727.000000	51.0	6.7	23.0	74.0	H
24308.000000	54.5	7.7	19.5	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
19383.000000	37.8	5.9	16.2	54.0	H
21727.000000	39.4	6.7	14.6	54.0	H
24308.000000	42.6	7.7	11.4	54.0	H

Sign-off Test Data

Date: 8/11/2011 - Time: 8:19:07

Tested by



Reviewed by



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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

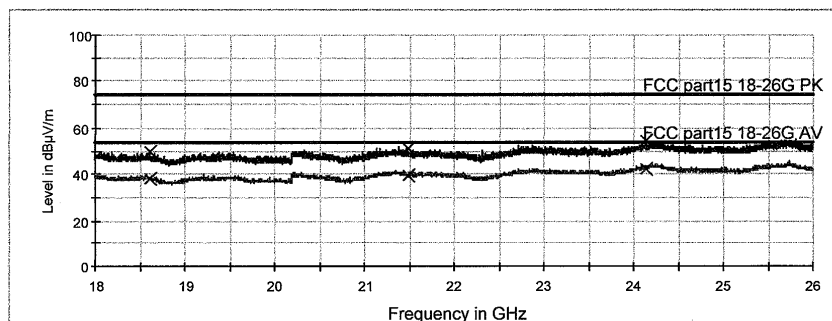
EMC Test Record (Emission)

Common Information

Manufacturer: ION
Test Item: Wireless speaker
Identification: iSPOF FREESOUND
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Middle Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 173061380
Report No: 16034488 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
18606.000000	49.9	5.6	24.1	74.0	V
21487.000000	51.3	6.6	22.7	74.0	V
24132.000000	54.5	7.6	19.5	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
18606.000000	37.9	5.6	16.1	54.0	V
21487.000000	39.2	6.6	14.8	54.0	V
24132.000000	42.4	7.6	11.6	54.0	V

Sign-off Test Data

Date: 8/11/2011 - Time: 8:16:24

Tested by:  Reviewed by: 

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

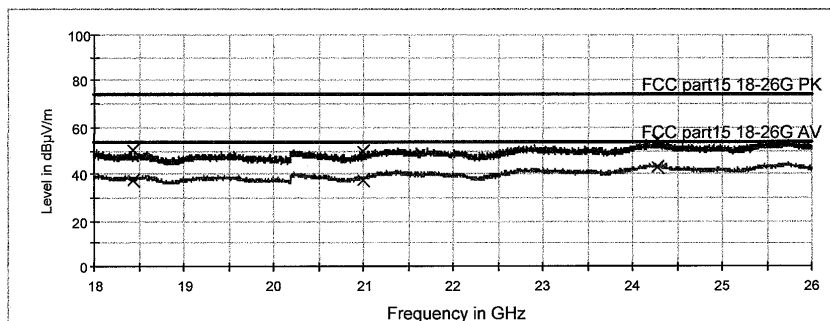
EMC Test Record (Emission)

Common Information

Manufacturer: ION
Test Item: Wireless speaker
Identification: ISPOF FREESOUND
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 173061380
Report No: 16034488 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
18445.000000	50.0	5.5	24.0	74.0	V
21000.000000	49.6	6.5	24.4	74.0	V
24288.000000	54.2	7.6	19.8	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
18445.000000	37.5	5.5	16.5	54.0	V
21000.000000	37.7	6.5	16.3	54.0	V
24288.000000	42.5	7.6	11.5	54.0	V

Sign-off Test Data

Date: 8/11/2011 - Time: 8:13:27

Tested by:



Reviewed by:



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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

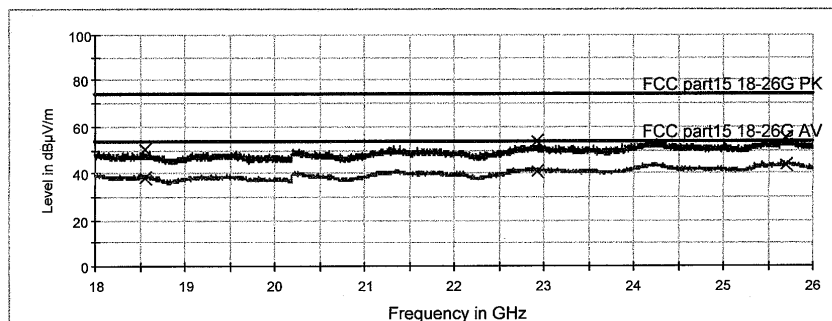
EMC Test Record (Emission)

Common Information

Manufacturer: ION
Test Item: Wireless speaker
Identification: ISPOF FREESOUND
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ High Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 173061380
Report No: 16034488 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
18561.000000	50.1	5.5	23.9	74.0	H
22927.000000	53.7	7.1	20.3	74.0	H
25709.000000	54.9	8.5	19.1	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
18561.000000	38.0	5.5	16.0	54.0	H
22927.000000	40.9	7.1	13.1	54.0	H
25709.000000	43.3	8.5	10.7	54.0	H

Sign-off Test Data

Date: 8/11/2011 - Time: 8:11:01

Tested by:



Reviewed by:



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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

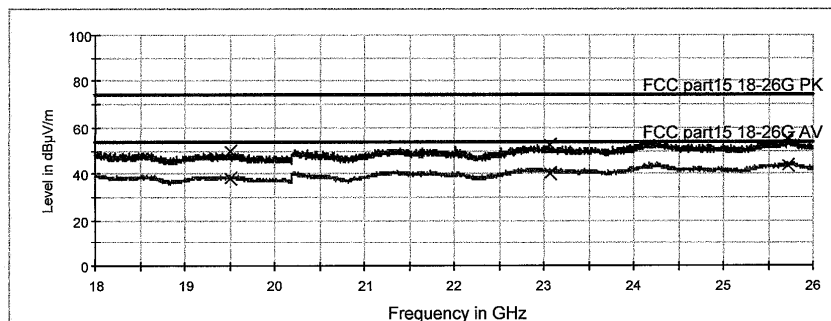
EMC Test Record (Emission)

Common Information

Manufacturer: ION
Test Item: Wireless speaker
Identification: ISPOF FREESOUND
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 173061380
Report No: 16034488 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
19515.000000	49.3	5.9	24.7	74.0	H
23073.000000	52.3	7.2	21.7	74.0	H
25714.000000	55.0	8.5	19.0	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
19515.000000	38.0	5.9	16.0	54.0	H
23073.000000	40.3	7.2	13.7	54.0	H
25714.000000	43.3	8.5	10.7	54.0	H

Sign-off Test Data

Date: 8/11/2011 - Time: 8:07:59

Tested by:

Reviewed by:



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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

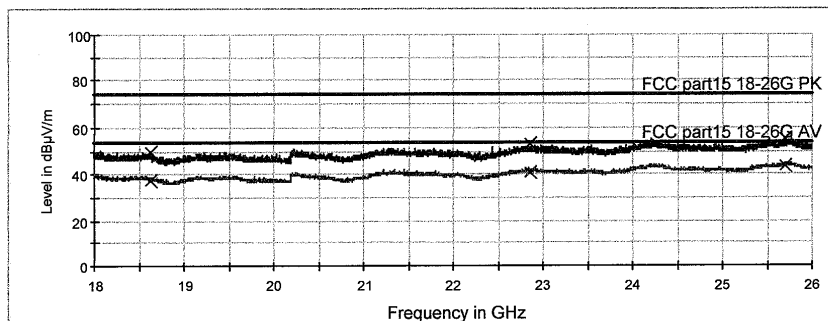
EMC Test Record (Emission)

Common Information

Manufacturer: ION
Test Item: Wireless speaker
Identification: iSPOF FREESOUND
Test Standard: FCC Part 15
Test Detail: RE
Operation Mode: Tx @ Low Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 173061380
Report No: 16034488 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV 3160-09
Transducer: TUV SAC 3160-09/ TUV FSP30-TUV SAC 3160-09

Pre TUV 18 to 26.5 3160-09



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)	Polarization
18635.000000	49.4	5.6	24.6	74.0	V
22858.000000	52.8	7.1	21.2	74.0	V
25705.000000	55.0	8.5	19.0	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBµV/m)	Polarization
18635.000000	37.7	5.6	16.3	54.0	V
22858.000000	40.8	7.1	13.2	54.0	V
25705.000000	43.4	8.5	10.6	54.0	V

Sign-off Test Data

Date: 8/11/2011 - Time: 8:04:11

Tested by:

Reviewed by:



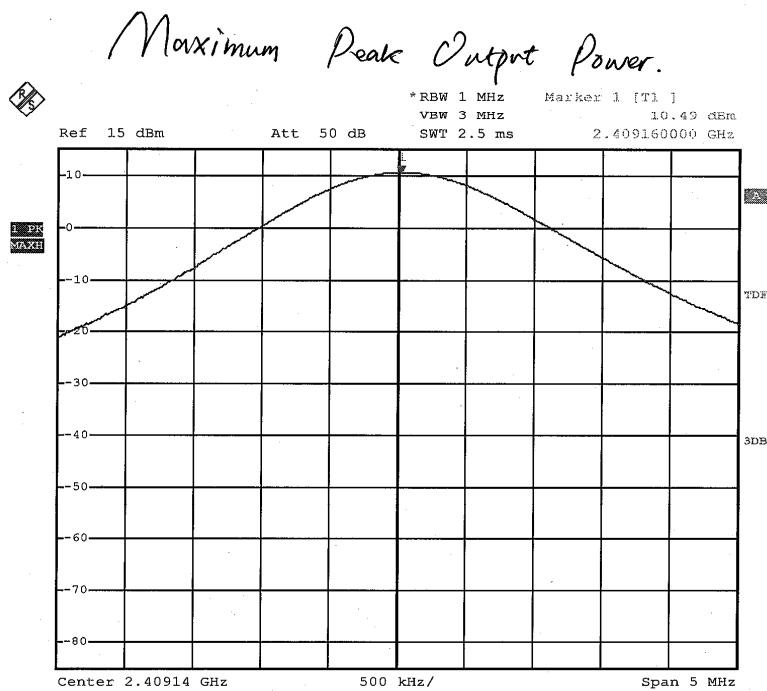
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Date: 10.AUG.2011 08:20:48

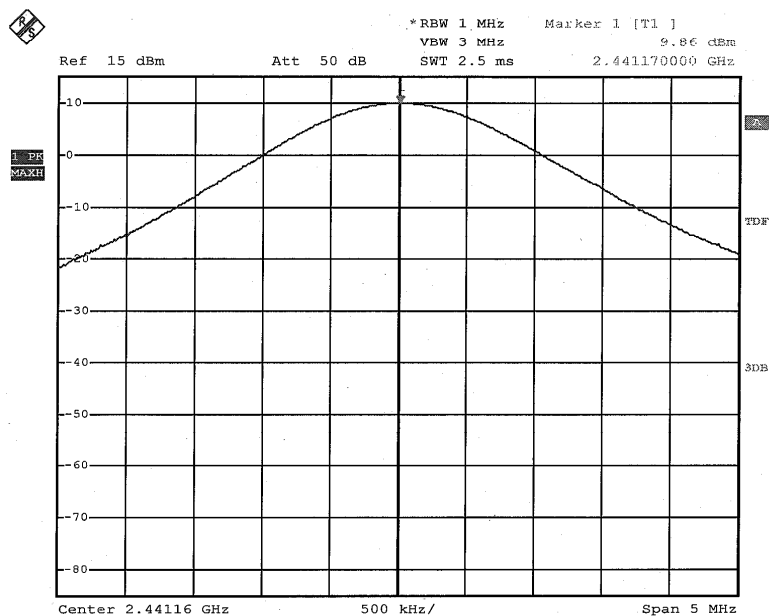
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Date: 10.AUG.2011 08:21:47

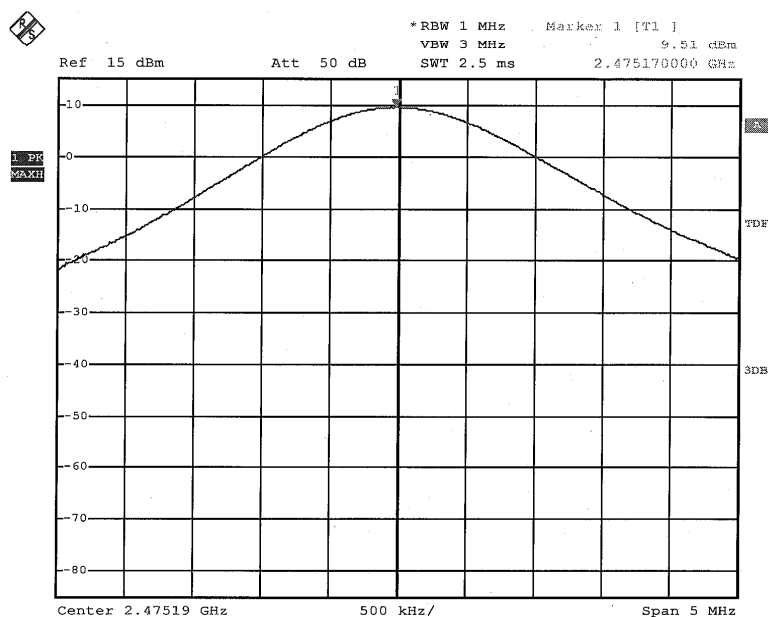
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Date: 10.AUG.2011 08:23:12

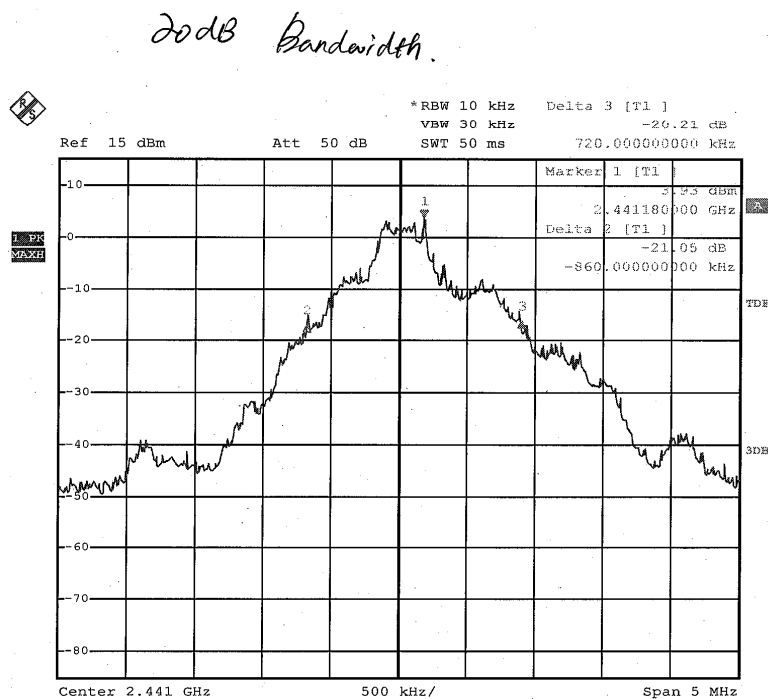
Prüfbericht - Nr.:

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Date: 10.AUG.2011 08:35:13

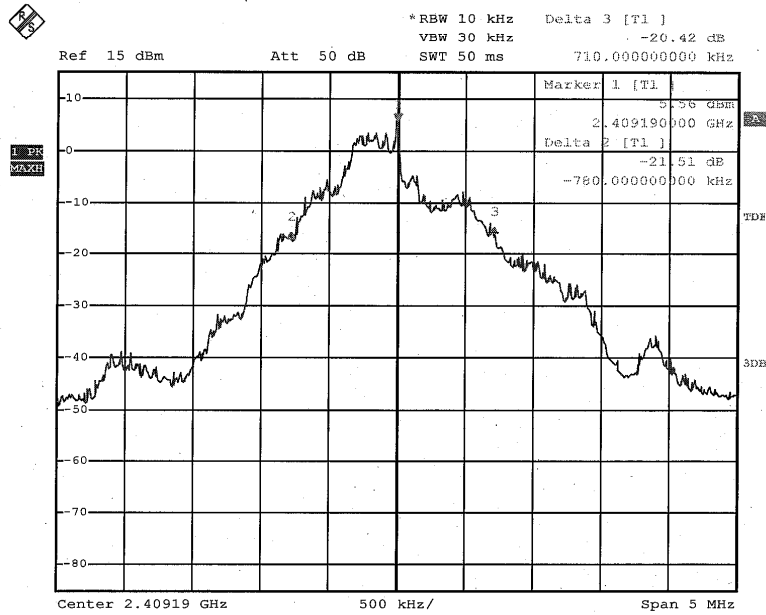
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Date: 10.AUG.2011 08:36:31

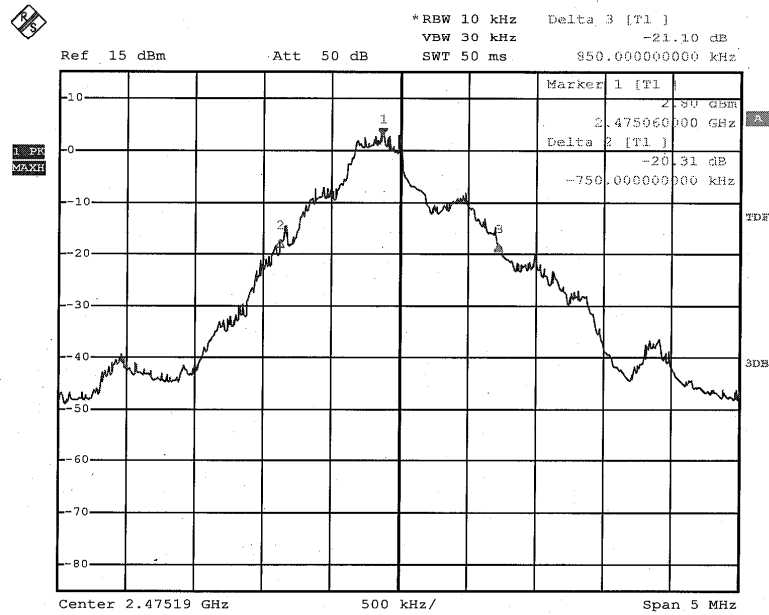
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Date: 10.AUG.2011 08:33:52

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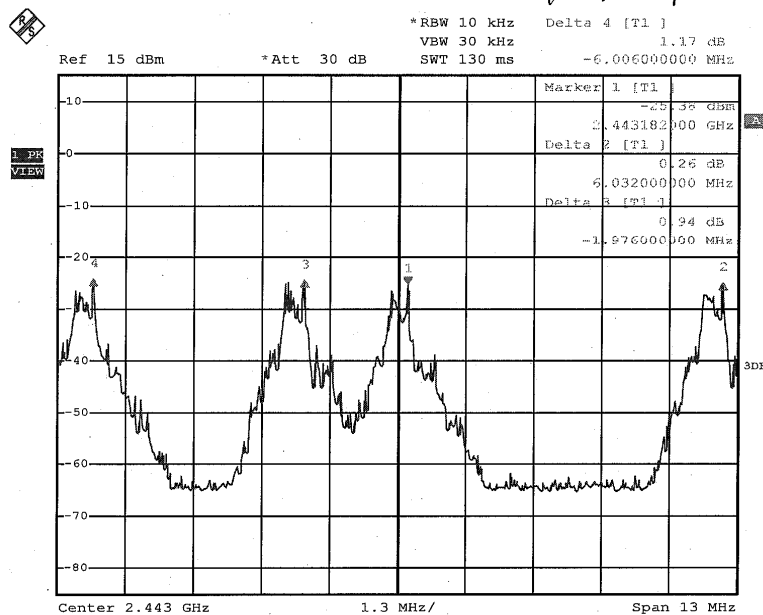
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Hopping Channel Carrier Frequency Separation.



Date: 10.AUG.2011 09:31:21

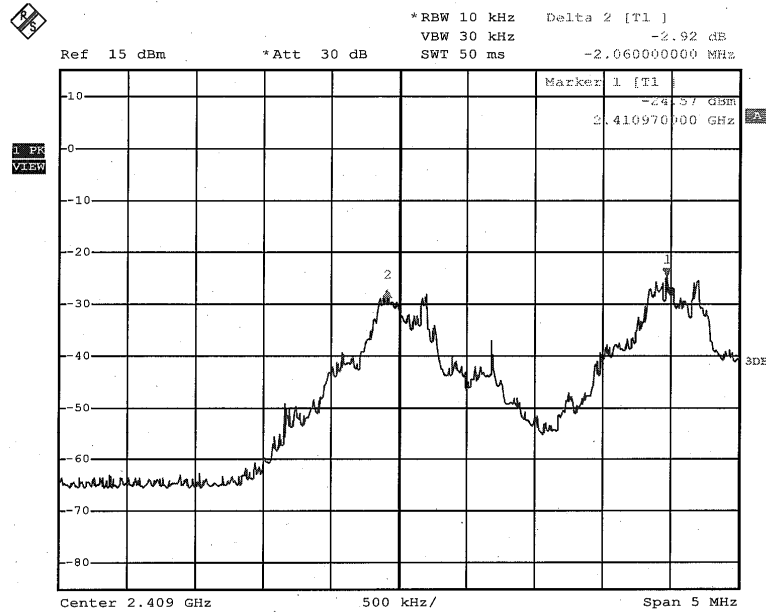
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Date: 10.AUG.2011 09:20:06

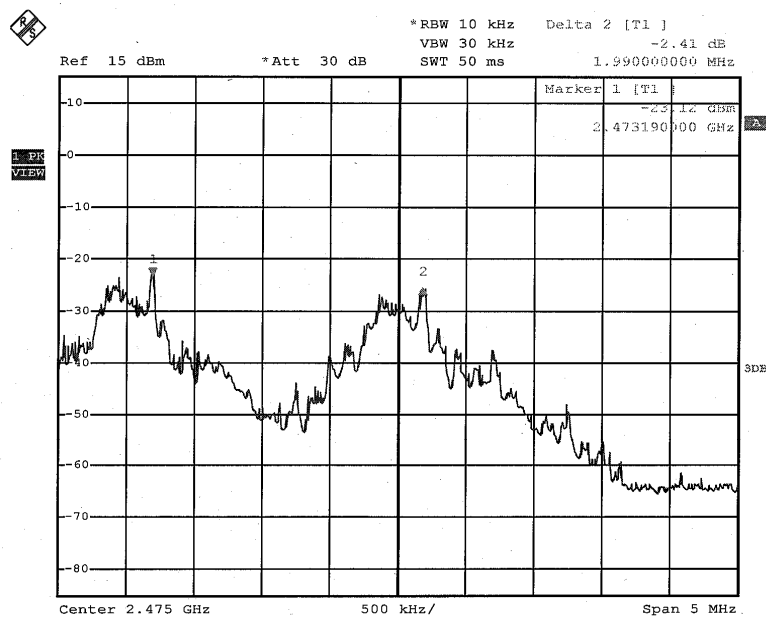
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Date: 10.AUG.2011 09:22:30

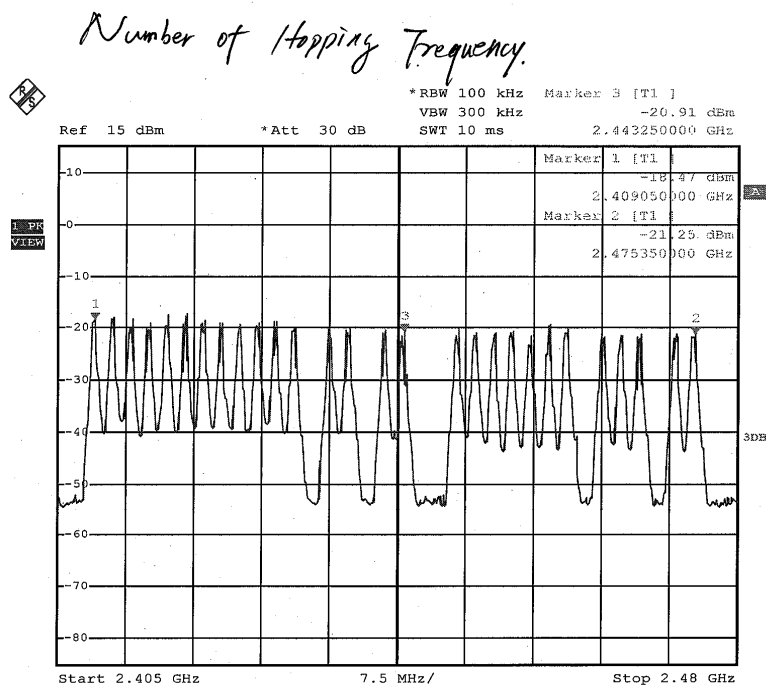
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Date: 10.AUG.2011 09:15:11

Prüfbericht - Nr.:

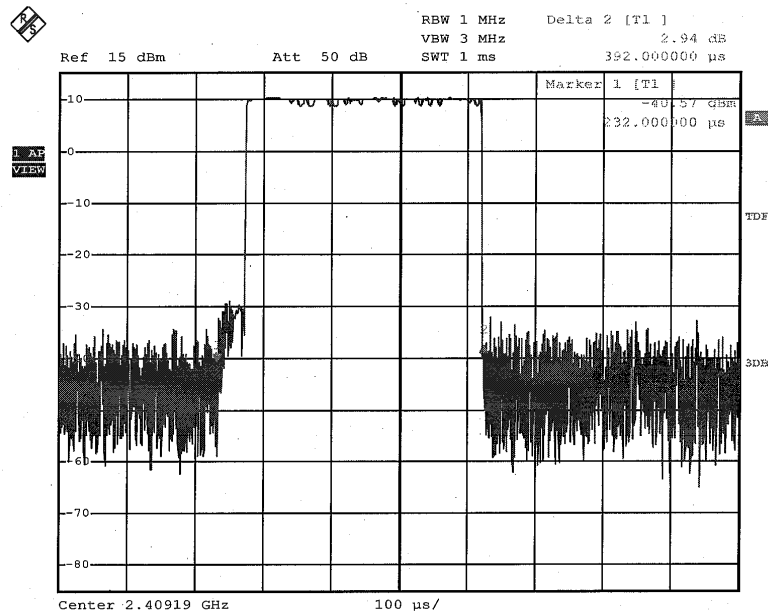
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Dwell time.

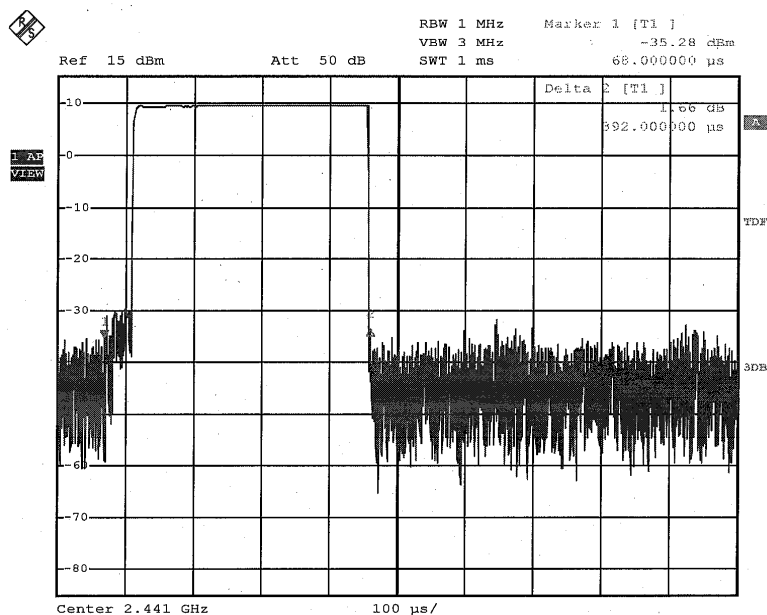


Date: 10.AUG.2011 08:39:04

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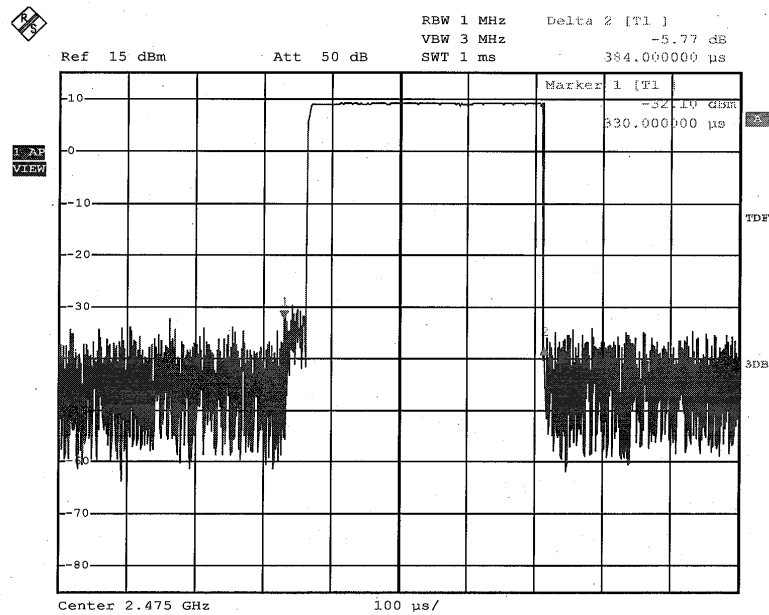


Date: 10.AUG.2011 08:40:04

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Date: 10.AUG.2011 08:41:48

Prüfbericht - Nr.:

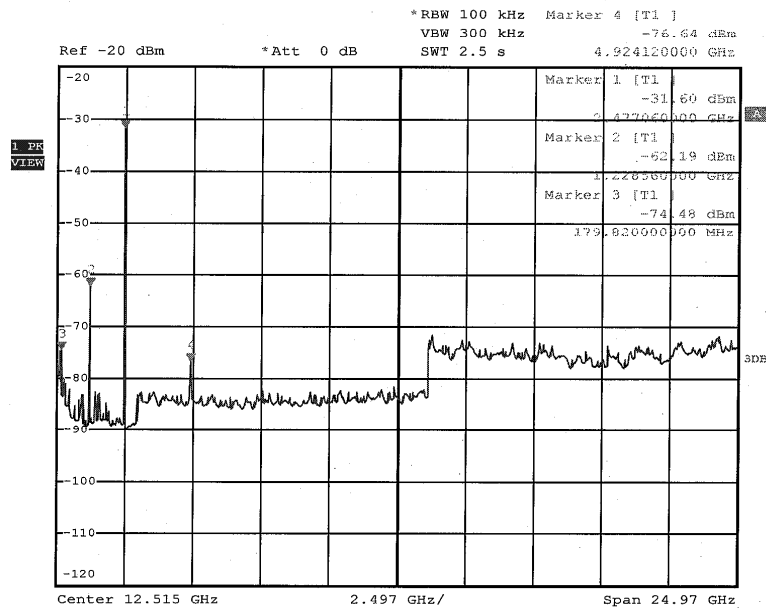
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Out of band Emission.



Date: 11.AUG.2011 09:54:07

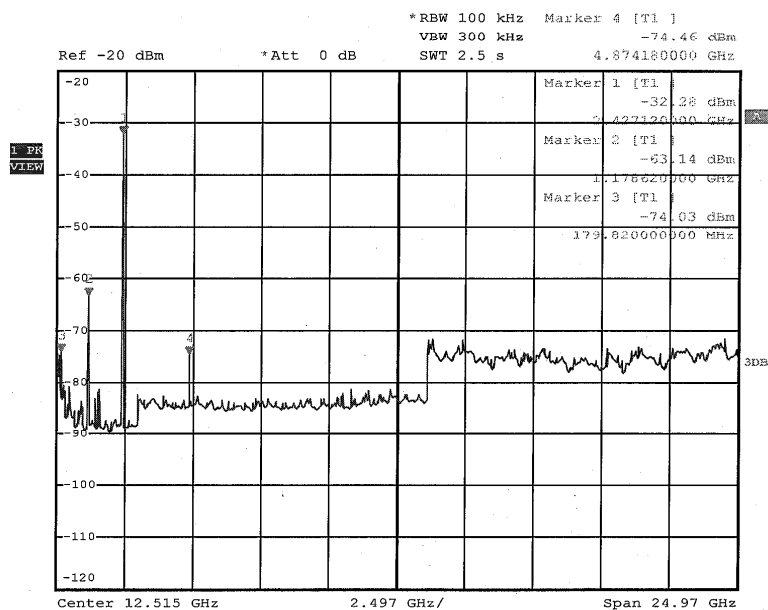
Prüfbericht - Nr.:

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Date: 11.AUG.2011 09:54:49

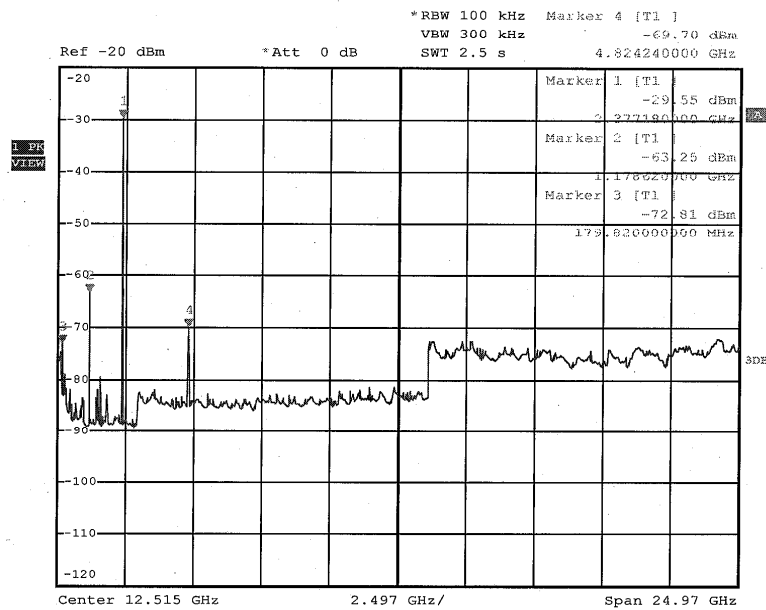
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Date: 11.AUG.2011 09:53:17

Prüfbericht - Nr.:

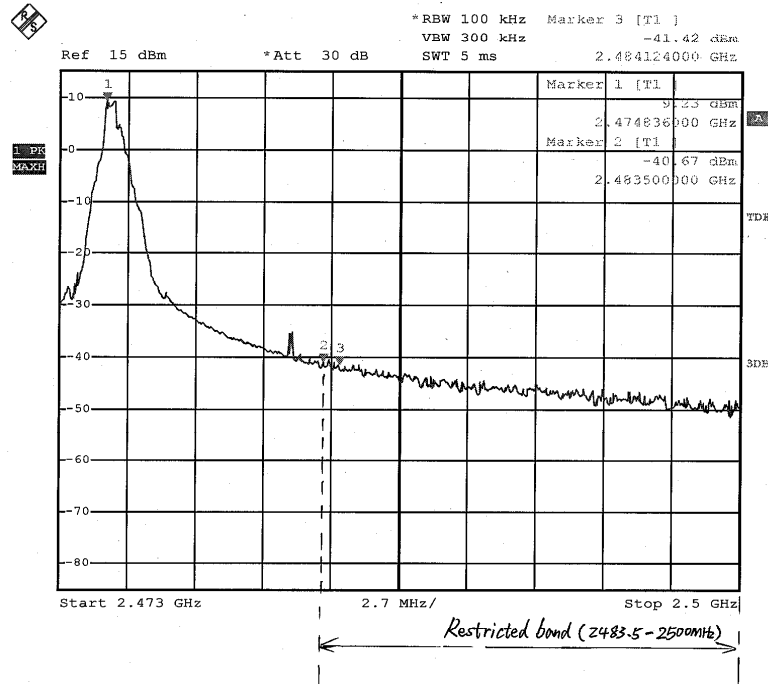
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Band Edges Emission in the Restricted band.



Date: 10.AUG.2011 09:02:45

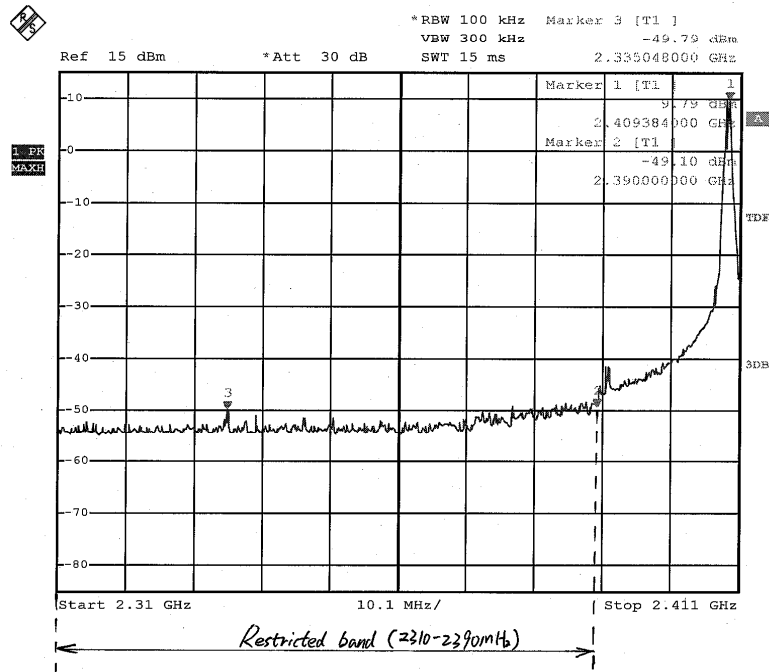
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Date: 10.AUG.2011 09:01:20

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

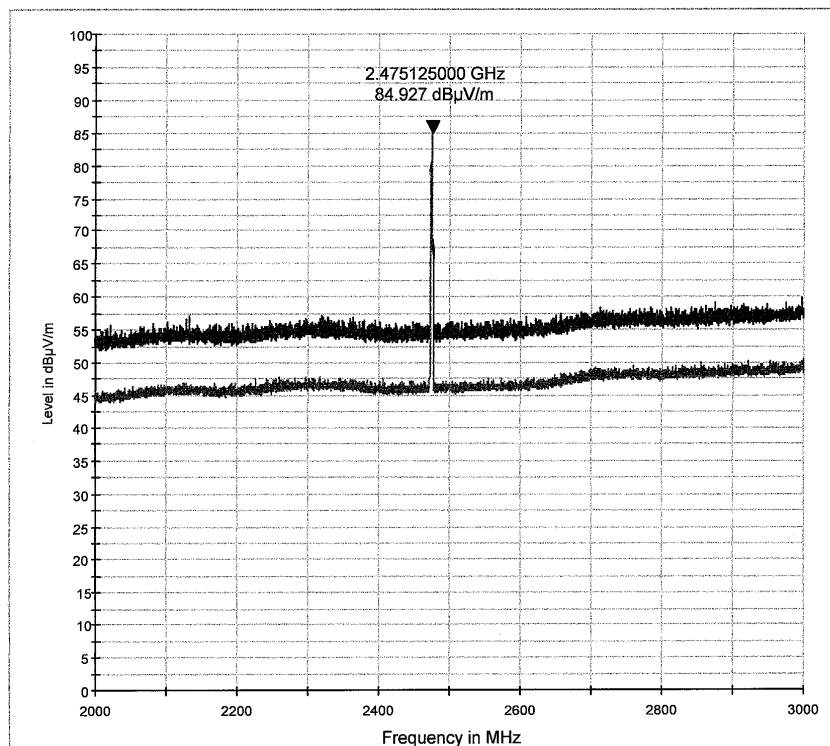
EMC Test Record (Emission)

Common Information

Manufacturer:	ION
Test Item:	Wireless speaker
Identification:	iSPOF FREESOUND
Test Standard:	FCC Part 15
Test Detail:	RE
Operation Mode:	Tx @ High Channel
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC120V / 60Hz
Receipt No:	173061380
Report No:	16034488 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal

Subrange 1	
Frequency Range:	2GHz-3GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Date: 8/11/2011 - Time: 7:06:56

Tested by:  Reviewed by: 

Prüfbericht - Nr.:

16034488 001

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

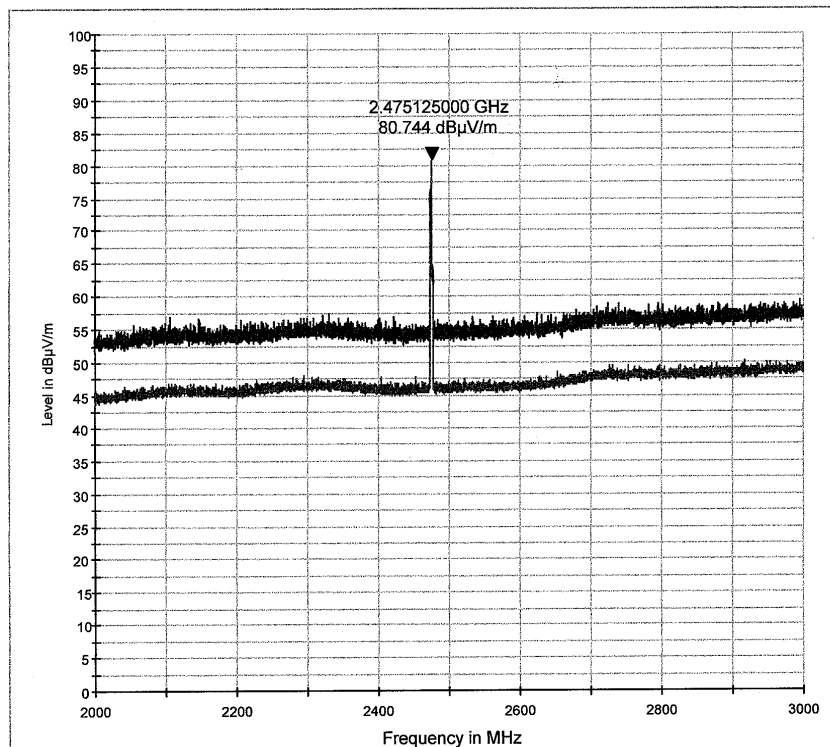
EMC Test Record (Emission)

Common Information

Manufacturer:	ION
Test Item:	Wireless speaker
Identification:	iSPOF FREESOUND
Test Standard:	FCC Part 15
Test Detail:	RE
Operation Mode:	Tx @ High Channel
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC120V / 60Hz
Receipt No:	173061380
Report No:	16034488 001
Result:	Pass
Comment:	Test distance is 3m, Vertical

Subrange 1	
Frequency Range:	2GHz-3GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Date: 8/11/2011 - Time: 7:09:15

Tested by:  Reviewed by: 

Prüfbericht - Nr.:

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TUV Rheinland (Guangdong) Ltd.

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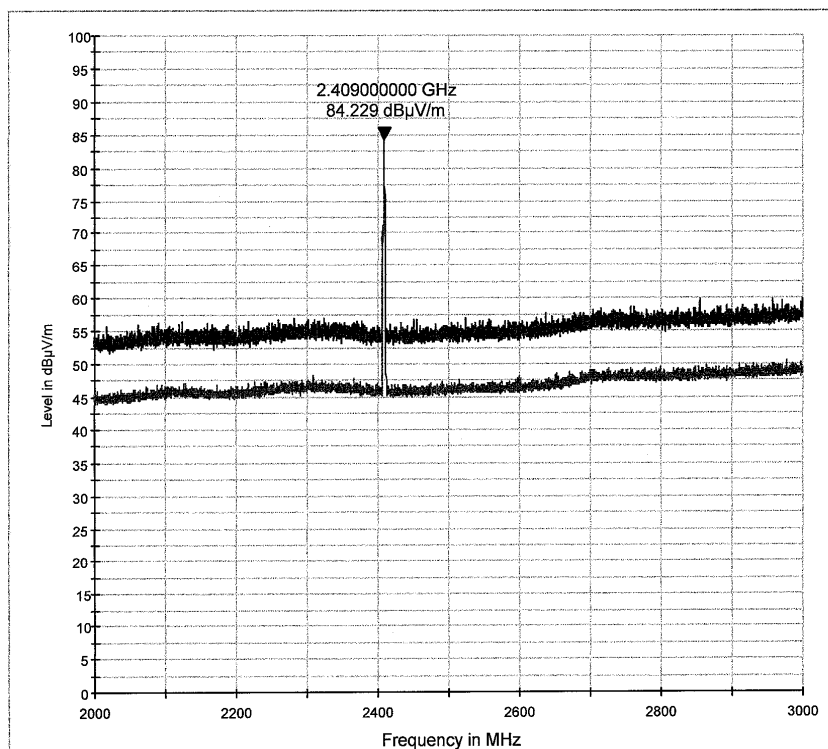
EMC Test Record (Emission)

Common Information

Manufacturer:	ION
Test Item:	Wireless speaker
Identification:	iSPOF FREESOUND
Test Standard:	FCC Part 15
Test Detail:	RE
Operation Mode:	Tx @ Low Channel
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC120V / 60Hz
Receipt No:	173061380
Report No:	16034488 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal

Subrange 1	
Frequency Range:	2GHz-3GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Date: 8/11/2011 - Time: 7:04:51

Tested by:



Reviewed by:



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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

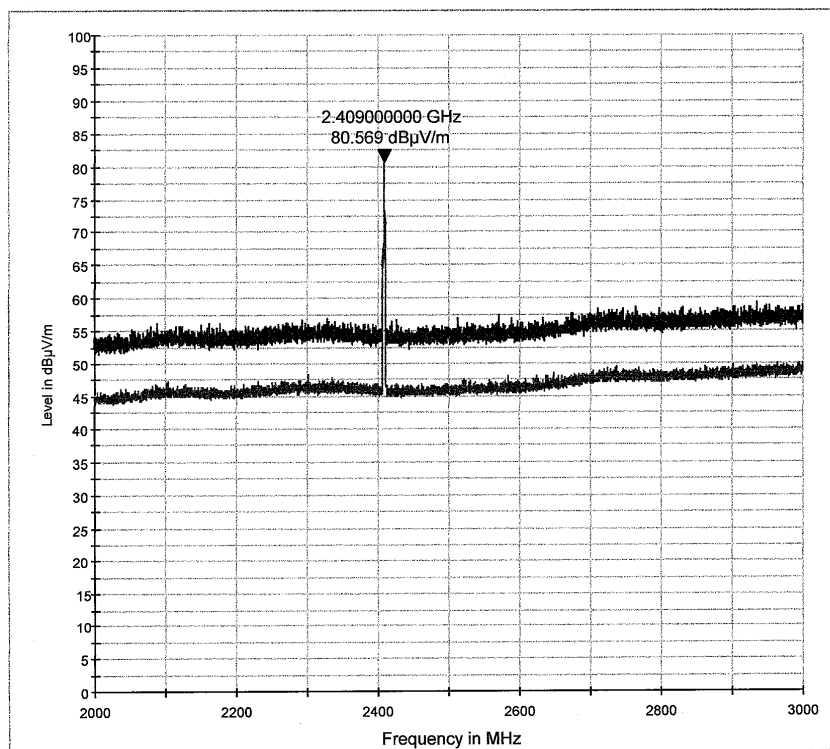
EMC Test Record (Emission)

Common Information

Manufacturer:	ION
Test Item:	Wireless speaker
Identification:	iSPOF FREESOUND
Test Standard:	FCC Part 15
Test Detail:	RE
Operation Mode:	Tx @ Low Channel
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC120V / 60Hz
Receipt No:	173061380
Report No:	16034488 001
Result:	Pass
Comment:	Test distance is 3m, Vertical

Subrange 1	
Frequency Range:	2GHz-3GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Date: 8/11/2011 - Time: 7:03:01

Tested by:



Reviewed by:

