

version 7.0.



# FCC PART 15B TEST REPORT

For

# **ITALCOM GROUP**

"""1728 Coral Way, Coral Gables, Miami, Florida'55367, UUC

FCC ID: YPVITALCOMFLYMINI

Report Type: **Product Type:** Mobile Phone Original Report Am lin **Test Engineer:** Ares Liu **Report Number:** RSZ140304015-00D **Report Date:** 2014-03-19 Ivan Cao from Car **Reviewed By:** RF Leader **Test Laboratory:** Bay Area Compliance Laboratories Corp. (Dongguan) No.69 Pulongeun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn

**Note**: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. This report **must not** be used by the customer to claim product certification, approval, or endorsement by NVLAP\*, or any agency of the Federal Government.

\* This report may contain data that are not covered by the NVLAP accreditation and shall be marked with an asterisk "★" (Rev.2). This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above

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### **GENERAL INFORMATION**

### **Product Description for Equipment under Test (EUT)**

The *ITALCOM GROUP*'s product, model number: *FLY MINI (FCC ID: YPVITALCOMFLYMINI)* (the "EUT") in this report was a *Mobile Phone*, which was measured approximately: 11.8 cm (L) x 6.3 cm (W) x 1.0 cm (H), rated input voltage: DC 3.7 V from lithium battery or DC 4.2V charging from adapter. The highest operating frequency is 1200 MHz.

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Adapter information:

Input: AC 100-250V, 50-60Hz Output: DC 4.2V ± 0.5V, 500mA

### **Objective**

This report is prepared on behalf of *ITALCOM GROUP* in accordance with Part 2, Subpart J, Part 15, Subparts A and B of the Federal Communication Commissions rules.

The objective of the manufacturer is to determine compliance with FCC Part 15B, Class B.

### Related Submittal(s)/Grant(s)

FCC Part 15C DTS submissions with FCC ID: YPVITALCOMFLYMINI FCC Part 15C DSS submissions with FCC ID: YPVITALCOMFLYMINI FCC Part 22H & 24E PCE submissions with FCC ID: YPVITALCOMFLYMINI

#### **Test Facility**

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

Test site at Bay Area Compliance Laboratories Corp. (Dongguan) has been fully described in reports submitted to the Federal Communications Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 02, 2012. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratories Corp. (Dongguan) is an ISO/IEC 17025 accredited laboratory, and is accredited by National Voluntary Laboratory Accredited Program (Lab Code 500069-0).



The current scope of accreditations can be found at http://ts.nist.gov/standards/scopes/5000690.htm

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<sup>\*</sup> All measurement and test data in this report was gathered from production sample serial number: 140304015 (Assigned by BACL.Dongguan). The EUT was received on 2014-03-07.

# **SYSTEM TEST CONFIGURATION**

### Justification

The system was configured for testing in a typical fashion (as normally used by a typical user).

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EUT operation mode 1: USB downloading

EUT operation mode 2: Video playing & Charging

### **EUT Exercise Software**

The software "EMC TEST" was used in test.

### **Equipment Modifications**

No modification was made to the EUT.

### **Support Equipment List and Details**

Manufacturer	Description	Model	Serial Number
DELL	Laptop PP11L QDS-BRC		QDS-BRCM1017
НР	Printer C3941A JPTVOB		JPTVOB2337
DELL	Keyboard L100 CNORH656		CNORH656658907BL05DC
SAST	Modem	AEM-2100	0293
Kingston	Micro SD card	4GB	/

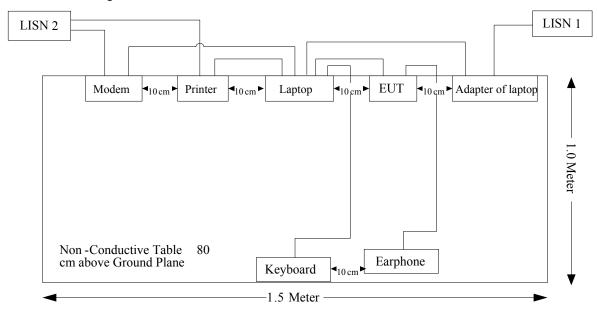
### **External I/O Cable**

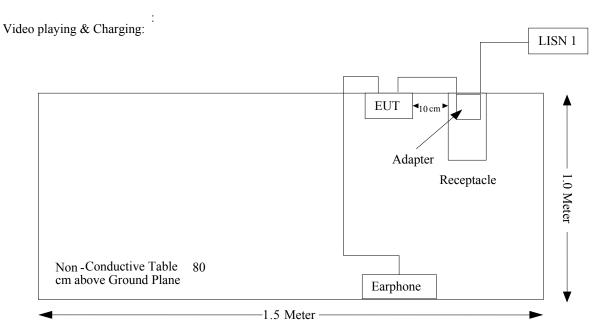
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	То
Parallel Cable	yes	No	1.2	Parallel Port of Laptop	Printer
Serial Cable	yes	No	1.8	Serial Port of Laptop	Modem
USB Cable	yes	No	1.0	EUT	Laptop
USB Cable	yes	No	1.5	Keyboard	Laptop
Earphone Cable	No	No	0.8	EUT	Earphone

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### **Block Diagram of Test Setup**

USB downloading:





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# **SUMMARY OF TEST RESULTS**

FCC Rules	Description of Test	Results
§15.107	AC Line Conducted Emissions	Compliance
§15.109	Radiated Emissions	Compliance

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### FCC §15.107 - AC LINE CONDUCTED EMISSIONS

#### **Measurement Uncertainty**

Compliance or non- compliance with a disturbance limit shall be determined in the following manner:

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If  $U_{\text{lab}}$  is less than or equal to  $U_{\text{cispr}}$  of Table 1, then:

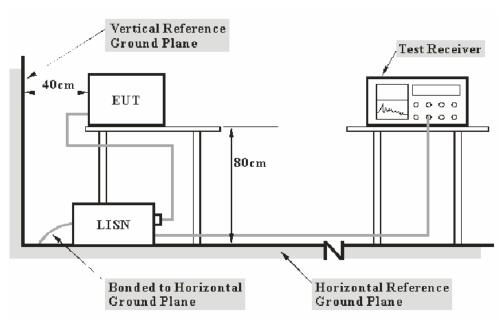
- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit. If  $U_{\text{lab}}$  is greater than  $U_{\text{cispr}}$  of Table 1, then:
- compliance is deemed to occur if no measured disturbance level, increased by  $(U_{lab} U_{cispr})$ , exceeds the disturbance limit;
- non compliance is deemed to occur if any measured disturbance level, increased by  $(U_{\text{lab}} U_{\text{cispr}})$ , exceeds the disturbance limit.

Based on CISPR 16-4-2: 2011, measurement uncertainty of conducted disturbance at mains port using AMN at Bay Area Compliance Laboratories Corp. (Dongguan) is 3.46 dB (150 kHz to 30 MHz).

Table 1 – Values of  $U_{\text{cisp}}$ 

Measurement	$U_{ m cispr}$
Conducted disturbance at mains port using AMN (150 kHz to 30 MHz)	3.4 dB

### **EUT Setup**



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

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The setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC Part 15.107 Class B limits.

The spacing between the peripherals was 10 cm.

The adapter was connected to a 120 VAC/60 Hz power source

### **EMI Test Receiver Setup**

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

#### **Test Procedure**

During the conducted emission test, the adapter was connected to the outlet of the first LISN and the other support equipments were connected to the outlet of the second LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

### **Corrected Amplitude & Margin Calculation**

The basic equation is as follows:

$$V_C = V_R + A_C + VDF$$
  
$$C_f = A_C + VDF$$

Herein,

V<sub>C</sub>(cord. Reading): corrected voltage amplitude

 $V_R$ : reading voltage amplitude  $A_c$ : attenuation caused by cable loss VDF: voltage division factor of AMN  $C_f$ : Correction Factor

The "Margin" column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the maximum limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

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### **Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCS 30	830245/006	2013-11-20	2014-11-19
R&S	Two-line V-network	ENV216	3560.6550.12	2014-01-22	2015-01-21
R&S	L.I.S.N	ESH3-Z5	100113	N/A	N/A
BACL	Test Software	BACL-EMC	V1.0-2010	N/A	N/A

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### **Test Results Summary**

According to the recorded data in following table, the EUT complied with the FCC Part 15.107, with the worst margin reading of:

11.38 dB at 0.830 MHz in the Neutral conducted mode for video playing & charging

#### **Test Data**

#### **Environmental Conditions**

Temperature:	22.7 °C
Relative Humidity:	40 %
ATM Pressure:	101.6 kPa

The testing was performed by Ares Liu on 2014-03-14.

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<sup>\*</sup> Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to National Primary Standards and International System of Units (SI).

### Test mode: USB Downloading

### AC120 V, 60 Hz, Line:



Frequency (MHz)	Cord. Reading (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/AV/QP)
0.250	42.66	10.16	61.76	19.10	QP
0.250	32.82	10.16	51.76	18.94	AV
1.500	34.36	9.72	56.00	21.64	QP
1.500	27.44	9.72	46.00	18.56	AV
1.580	37.91	9.72	56.00	18.09	QP
1.580	24.57	9.72	46.00	21.43	AV
1.860	36.75	9.72	56.00	19.25	QP
1.880	24.85	9.72	46.00	21.15	AV
1.930	38.28	9.72	56.00	17.72	QP
1.930	23.55	9.72	46.00	22.45	AV
27.120	38.33	9.98	60.00	21.67	QP
27.120	32.27	9.98	50.00	17.73	AV

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# AC120 V, 60 Hz, Neutral:

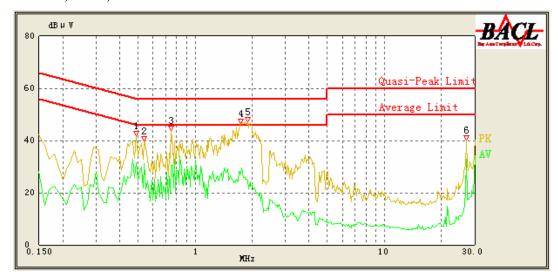


Frequency (MHz)	Cord. Reading (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/AV/QP)
0.470	38.25	10.03	56.51	18.26	QP
0.470	33.86	10.03	46.51	12.65	AV
0.780	38.63	9.82	56.00	17.37	QP
0.780	34.37	9.82	46.00	11.63	AV
0.830	38.73	9.82	56.00	17.27	QP
0.830	34.54	9.82	46.00	11.46	AV
1.430	36.23	9.78	56.00	19.77	QP
1.430	31.51	9.78	46.00	14.49	AV
1.790	36.89	9.74	56.00	19.11	QP
1.790	25.85	9.74	46.00	20.15	AV
27.120	41.32	10.02	60.00	18.68	QP
27.120	32.87	10.02	50.00	17.13	AV

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Test mode: Video playing & Charging

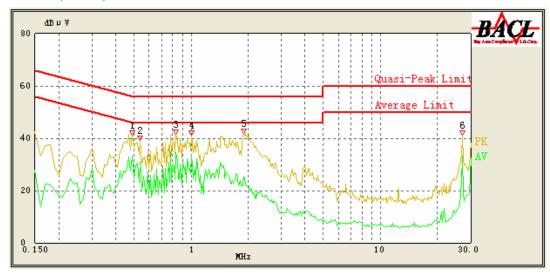
### AC 120 V, 60 Hz, Line:



Frequency (MHz)	Cord. Reading (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/AV/QP)
0.490	38.27	9.96	56.17	17.90	QP
0.490	31.43	9.96	46.17	14.74	AV
0.540	36.74	9.92	56.00	19.26	QP
0.540	31.09	9.92	46.00	14.91	AV
0.750	38.73	9.80	56.00	17.27	QP
0.750	30.65	9.80	46.00	15.35	AV
1.750	37.65	9.72	56.00	18.35	QP
1.750	27.23	9.72	46.00	18.77	AV
1.890	39.84	9.72	56.00	16.16	QP
1.890	24.85	9.72	46.00	21.15	AV
27.120	38.78	9.98	60.00	21.22	QP
27.120	32.96	9.98	50.00	17.04	AV

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# **AC 120 V, 60 Hz, Neutral:**



Frequency (MHz)	Cord. Reading (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/AV/QP)
0.490	38.90	9.98	56.17	17.27	QP
0.490	33.25	9.98	46.17	12.92	AV
0.540	37.28	9.92	56.00	18.72	QP
0.540	31.27	9.92	46.00	14.73	AV
0.830	39.28	9.82	56.00	16.72	QP
0.830	34.62	9.82	46.00	11.38	AV
1.000	37.95	9.82	56.00	18.05	QP
1.000	33.36	9.82	46.00	12.64	AV
1.890	37.35	9.73	56.00	18.65	QP
1.890	25.53	9.73	46.00	20.47	AV
27.120	40.78	10.02	60.00	19.22	QP
27.120	33.33	10.02	50.00	16.67	AV

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### FCC §15.109 - RADIATED EMISSIONS

### **Measurement Uncertainty**

Compliance or non- compliance with a disturbance limit shall be determined in the following manner:

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If  $U_{\text{lab}}$  is less than or equal to  $U_{\text{cispr}}$  of Table 2, then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit. If  $U_{\text{lab}}$  is greater than  $U_{\text{cispr}}$  of Table 1, then:
- compliance is deemed to occur if no measured disturbance level, increased by  $(U_{lab} U_{cispr})$ , exceeds the disturbance limit;
- non compliance is deemed to occur if any measured disturbance level, increased by  $(U_{\text{lab}} U_{\text{cispr}})$ , exceeds the disturbance limit.

Based on CISPR 16-4-2: 2011, measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Dongguan) is:

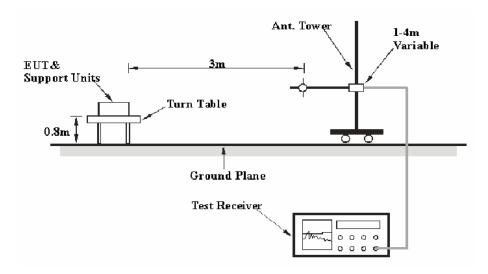
30M~200MHz: 5.0 dB 200M~1GHz: 6.2 dB 1G~6GHz: 4.45 dB 6G~18GHz: 5.23 dB

Table 2 – Values of  $U_{cispr}$ 

Measurement						
Radiated disturbance (electric field strength at an OATS or in a SAC) (30 MHz to 1000 MHz)	6.3 dB					
Radiated disturbance (electric field strength in a FAR) (1 GHz to 6 GHz)	5.2 dB					
Radiated disturbance (electric field strength in a FAR) (6 GHz to 18 GHz)	5.5 dB					

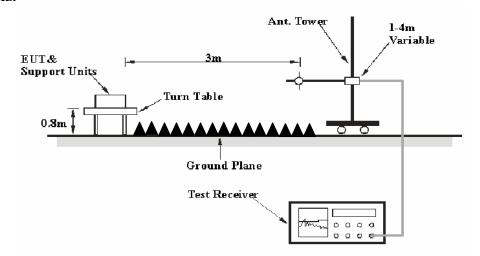
#### **EUT Setup**

#### **Below 1 GHz:**



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# Above 1'GHz:



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The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2003. The specification used was the FCC Part 15.109, Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

The adapter was connected to a 120 VAC/60 Hz power source

### **EMI Test Receiver Setup**

According to FCC 15.33 requirements, the system was measured from 30 MHz to 6 GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range RBW		Video B/W	IF B/W	Detector
30MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Alexand CII	1MHz	3 MHz	/	PK
Above 1 GHz	1MHz	10 Hz	/	Ave.

#### **Test Procedure**

For the radiated emissions test, the adapter was connected to the first AC floor outlet and the other support equipments were connected to the second AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The data was recorded in Quasi-peak detection mode for 30 MHz to 1 GHz, Peak and average detection mode above 1 GHz.

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### **Corrected Amplitude & Margin Calculation**

The Corrected Amplitude is calculated by adding the Antenna Loss and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

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Corrected Amplitude = Meter Reading + Antenna Loss + Cable Loss - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

#### **Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2013-05-06	2014-05-05
Sunol Sciences	Antenna	JB3	A060611-1	2011-09-06	2014-09-05
HP	Amplifier	8447E	2434A02181	2013-09-06	2014-09-05
R&S	Spectrum Analyzer	FSEM	DE31388	2013-05-07	2014-05-06
ETS-Lindgren	Horn Antenna	3115	000 527 35	2012-09-06	2015-09-05
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2014-02-19	2015-02-18
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A

<sup>\*</sup> Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to National Primary Standards and International System of Units (SI).

#### **Test Results Summary**

According to the data in the following table, the EUT complied with the FCC §15.109, Class B, with the worst margin reading of:

5.30 dB at 149.3100 MHz in the Vertical polarization for USB downloading

#### **Test Data**

### **Environmental Conditions**

Temperature:	21.6 °C
Relative Humidity:	70 %
ATM Pressure:	101.6 kPa

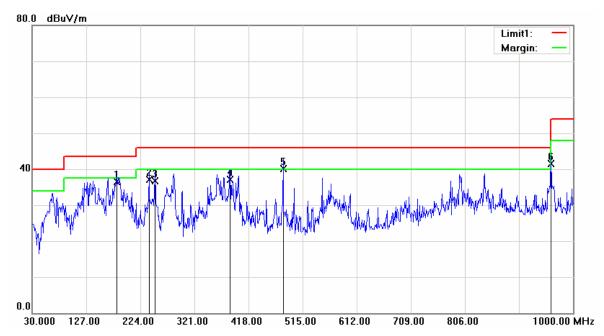
The testing was performed by Ares Liu on 2014-03-14.

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### 1) Below 1'GJ |:

Test mode: USB Downloading

### **Horizontal:**



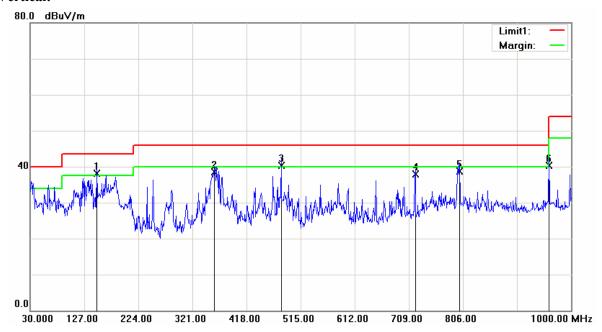
Report No.: RSZ140304015-00D

Frequency (MHz)	Receiver Reading (dBµV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBµV/m)	Limit (dBμV/m)	Margin (dB)
181.3200	45.09	QP	-8.59	36.50	43.50	7.00
239.5200	44.74	QP	-7.64	37.10	46.00	8.90
250.1900	44.37	QP	-7.57	36.80	46.00	9.20
385.0200	40.88	QP	-3.68	37.20	46.00	8.80
480.0800	41.55	QP	-1.45	40.10	46.00	5.90*
960.2300	36.74	QP	4.86	41.60	54.00	12.40

<sup>\*</sup>Within measurement uncertainty!

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### Vertical:



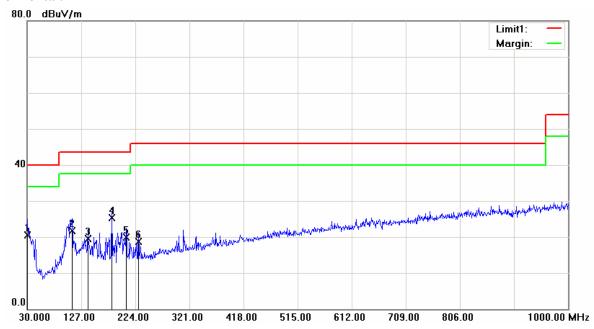
Frequency (MHz)	Receiver Reading (dBµV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
149.3100	45.60	QP	-7.40	38.20	43.50	5.30
360.7700	42.55	QP	-3.95	38.60	46.00	7.40
480.0800	41.85	QP	-1.45	40.40	46.00	5.60*
720.6400	36.52	QP	1.38	37.90	46.00	8.10
800.1800	36.21	QP	2.49	38.70	46.00	7.30
960.2300	35.44	QP	4.86	40.30	54.00	13.70

<sup>\*</sup>Within measurement uncertainty!

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Test mode: Video playing & Charging

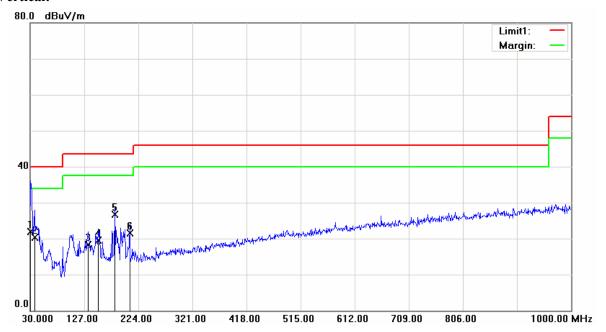
### **Horizontal:**



Frequency (MHz)	Receiver Reading (dBµV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
30.0000	19.05	QP	1.45	20.50	40.00	19.50
110.5100	28.89	QP	-7.09	21.80	43.50	21.70
138.6400	26.31	QP	-6.71	19.60	43.50	23.90
182.2900	33.97	QP	-8.57	25.40	43.50	18.10
207.5100	28.55	QP	-8.65	19.90	43.50	23.60
229.8200	26.50	QP	-7.80	18.70	46.00	27.30

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### Vertical:



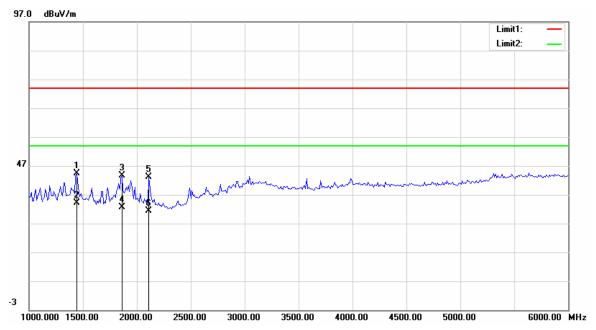
Frequency (MHz)	Receiver Reading (dBµV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
30.9700	21.13	QP	0.77	21.90	40.00	18.10
37.7600	24.83	QP	-4.53	20.30	40.00	19.70
133.7900	24.72	QP	-6.32	18.40	43.50	25.10
152.2200	26.86	QP	-7.26	19.60	43.50	23.90
181.3200	35.29	QP	-8.59	26.70	43.50	16.80
208.4800	30.17	QP	-8.67	21.50	43.50	22.00

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# 2) Above 1'GJ |:

Test mode: USB Downloading

### **Horizontal:**

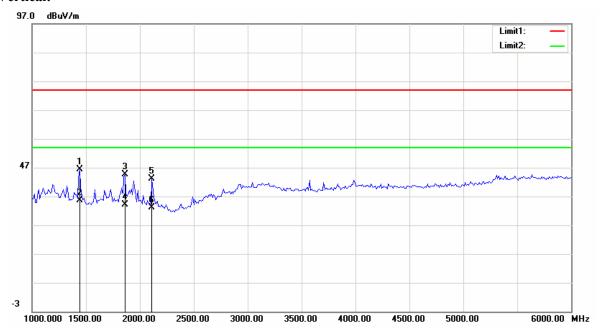


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Frequency (MHz)	Receiver Reading (dBµV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBµV/m)	Limit (dBμV/m)	Margin (dB)
1440.882	44.94	peak	-0.57	44.37	74.00	29.63
1440.882	34.69	AVG	-0.57	34.12	54.00	19.88
1861.723	43.02	peak	0.54	43.56	74.00	30.44
1861.723	32.04	AVG	0.54	32.58	54.00	21.42
2112.224	41.77	peak	1.48	43.25	74.00	30.75
2112.224	29.99	AVG	1.48	31.47	54.00	22.53

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### Vertical:

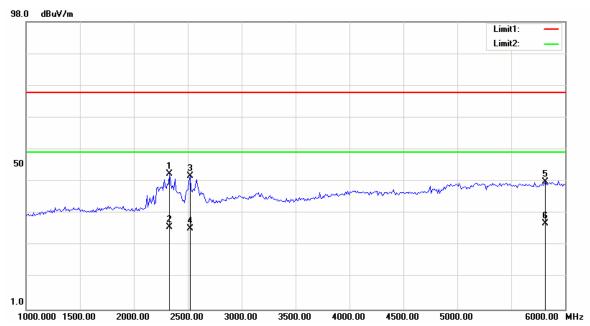


Frequency (MHz)	Receiver Reading (dBµV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
1440.882	46.94	peak	-0.57	46.37	74.00	27.63
1440.882	36.31	AVG	-0.57	35.74	54.00	18.26
1861.723	44.02	peak	0.54	44.56	74.00	29.44
1861.723	33.64	AVG	0.54	34.18	54.00	19.82
2112.224	41.77	peak	1.48	43.25	74.00	30.75
2112.224	31.77	AVG	1.48	33.25	54.00	20.75

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Test mode: Video playing & Charging

### **Horizontal:**

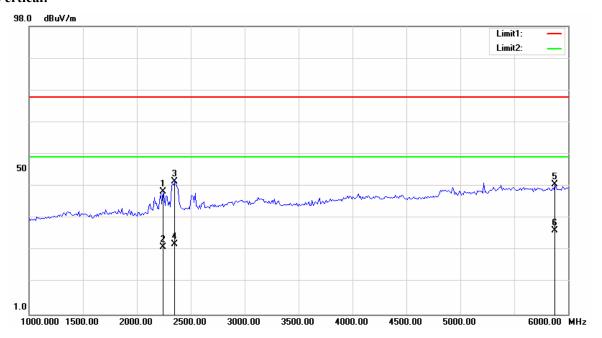


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Frequency (MHz)	Receiver Reading (dBµV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBµV/m)	Limit (dBμV/m)	Margin (dB)
2332.665	44.42	peak	2.41	46.83	74.00	27.17
2332.665	26.39	AVG	2.41	28.80	54.00	25.20
2523.046	42.84	peak	3.16	46.00	74.00	28.00
2523.046	25.16	AVG	3.16	28.32	54.00	25.68
5819.639	32.21	peak	11.78	43.99	74.00	30.01
5819.639	18.21	AVG	11.78	29.99	54.00	24.01

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### Vertical:



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Frequency (MHz)	Receiver Reading (dBµV)	Detector (PK/QP/Ave)	Correction Factor (dB/m)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
2242.485	40.18	peak	2.13	42.31	74.00	31.69
2242.485	21.51	AVG	2.13	23.64	54.00	30.36
2352.705	43.18	peak	2.50	45.68	74.00	28.32
2352.705	22.06	AVG	2.50	24.56	54.00	29.44
5879.760	33.10	peak	11.72	44.82	74.00	29.18
5879.760	17.57	AVG	11.72	29.29	54.00	24.71

\*\*\*\*\* END OF REPORT \*\*\*\*\*

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