



EUROFINS PRODUCT SERVICE GMBH

TEST - REPORT

FCC RULES PARTS 22H and 24E
IC RADIO STANDARDS RSS 132 and RSS 133

FCC ID: QIXMAMBO2

Model Name: MAMBO2

Test report no.: G0M20807-1889-P-2224



Testing Cert #1983.01



Eurofins Product Service GmbH
Storkower Str. 38c, 15526 Reichenwalde,
Germany

Phone +49-33631-888 0
Fax +49-33631-888 660

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1 General information

1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has passed all the relevant tests conforms to a specification.

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems.

The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

The test results of this test report relate exclusively to the item tested as specified in 1.5.

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Operator:

22.07.2009

M. Handrik



Date

Eurofins-Lab.

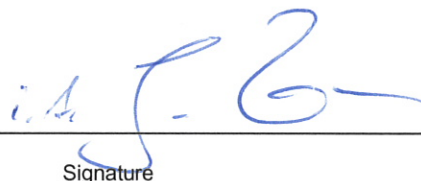
Name

Signature

Technical responsibility for area of testing:

22.07.2009

T. Jahn



Date

Eurofins

Name

Signature

1.2 Testing laboratory

1.2.1 Location

EUROFINS PRODUCT SERVICE GMBH
Storkower Strasse 38c
D-15526 Reichenwalde b. Berlin
Germany
Telephone : +49 33631 888 00
Telefax : +49 33631 888 660

1.2.2 Details of accreditation status

DAR ACCREDITED TESTING LABORATORY
DAR-REGISTRATION NUMBER: DAT-P-268/08

RECOGNIZED NOTIFIED BODY EMC
REGISTRATION NUMBER: BNetzA-bS EMV-07/61

RECOGNIZED NOTIFIED BODY R&TTE
REGISTRATION NUMBER: BNetzA-bS-02/51-53

FCC FILED TEST LABORATORY
REG.-No. 96970

A2LA ACCREDITED TESTING LABORATORY
CERTIFICATE No. 1983.01

BLUETOOTH QUALIFICATION TEST FACILITY (BQTF)
ACCREDITED BY BLUETOOTH QUALIFICATION REVIEW BOARD

INDUSTRY CANADA FILED TEST LABORATORY
REG. No. IC 3470

1.3 Details of approval holder

Name	: Falcom Wireless Communications GmbH
Street	: Gewerbering 6
Town	: 98704 Langewiesen
Country	: Germany
Telephone	: +49 3677 8042-0
Fax	: +49 3677 8042-215
Contact	: Herr Ralf Leipoldt
E-Mail	: +49 3677 8042-0

1.4 Application details

Date of receipt of application : 07.07.2009
Date of receipt of test item : 07.07.2009
Date of test : 07.07.2009 – 08.07.2009

1.5 Test item

FCC ID	: QIXMAMBO2
Description of test item	: GSM/GPRS-GPS-Personal tracker
Type identification	: MAMBO2
Serial number	: 30220(901)30600001
Photos	: See annex A.

Technical data

Frequency range Tx - GSM 850	: 824.2 - 848.80 MHz
Frequency range Tx - PCS	: 1850.2 - 1909.8 MHz
Frequency range Rx - GSM 850	: 869.2 - 893.8 MHz
Frequency range Rx - PCS	: 1930.2 - 1989.8 MHz
Antenna Type	: internal antenna
Antenna Gain	: <u>GSM 850</u> 1.0 dBi
	<u>PCS 1900</u> 1.0 dBi
Power supply	: 3.7VDC
Operating mode	: duplex
Type of modulation	: GMSK (GSM modulation)
Emission	: GXW

Manufacturer:
(if applicable)

Name :
Street :
Town :
Country :

1.6 Test standards

Technical standard	: FCC Parts: 22H, 24E, 2, 15 IC Standards: RSS 132, RSS 133
Additional information	: Because of using the GSM 850 as an alternative technology in 850 MHz band, not all test cases of FCC Part 22 are required. This test report covers the test which are related to GSM radio technology in GSM 850 band and GSM 1900 band only. Operation in others bands or with other radio technologies are subject of other independent test reports. The MAMBO2 was tested acc. a shorted plan in confirmation with the manufacturer. The model MAMBO2 used the prequalified module GE864-QUAD of the company Telit, Test report number 29081RET.001.

2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed. ☒

or

The deviations as specified in 2.5 were ascertained in the course of the tests performed. ☐

2.2 Test environment

Temperature	: 25 °C
Relative humidity content	: 20 ... 75 %
Air pressure	: 86 ... 103 kPa

2.3 Test equipment utilized

No.	Test equipment	Type	Manufacturer
ETS 0014	Log Periodical Antenna	HL 025	R & S
ETS 0059	Kikusui amplifier	PCR 2000L	Keytek/ EMC
ETS 0085	Shielded room	SR 1	Frankonia
ETS 0251	Climatic chamber	VT 4004	Vötsch
ETS 0281	Spectrum Analyzer	FSM	R & S
ETS 0288	Artificial mains	ESH2-Z5	R & S
ETS 0294	Biconical antenna	HK 116	R & S
ETS 0295	LPD antenna	HL 223	R & S
ETS 0310	Anechoic chamber	AC 3	Frankonia
ETS 0375	Vector Signal Gener.	SMIQ03B	R & S
ETS 0376	Signal Generator	SMP22	R & S
ETS 0378	Advanced Signal Conditioning Unit	ASCU190	R & S
ETS 0379	Advanced Signal Conditioning Unit	ASCU180	R & S
ETS 0380	Advanced Signal Conditioning Unit	ASCU900	R & S
ETS 0382	Vector Signal Gener.	SMIQ03B	R & S
ETS 0383	Spectrum Analyzer	FSU26	R & S
ETS 0384	Main Frame Signal and Conditioning Unit	SSCU-GW	R & S
ETS 0385	Protocol Slave	CRTU-RU (CRTU-G)	R & S
ETS 0386	Power meter	NRVD	R & S
ETS 0390	System PC PC3600	TS-PC36	R & S
ETS 0394	Advanced Signal Conditioning Unit	ASCUFDD-WCDMA	R & S
ETS 0413	Signal Analyzer	FSIQ 26	R & S
ETS 0416	Power Supply	EX752M	TTi
ETS 0473	GSM / UMTS System Simulator	TS 8950	R&S
ETS 0476	EMI Test receiver	ESCS 30	R&S
ETS 0484	Radio Communication Tester	CMU 200	R&S

2.4 General test procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.4-2003 5.2 using a 50 μ H LISN (if necessary). Both lines were observed. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

RADIATION INTERFERENCE: The test procedure used was ANSI STANDARD C63.4-2003 6.4 using a spectrum analyzer. The resolution bandwidth of the spectrum analyzer was 100 kHz for measurements below 1 GHz and RBW 1 MHz was used above 1 GHz. The analyzer was calibrated in dB above a microvolt at the output of the antenna.

FORMULA OF CONVERSION FACTORS for Field strength: The Field Strength at 3 m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dB μ V) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB.

Example:

Freq. (MHz)	METER READING + ACF + CABLE LOSS (to the receiver) = FS
33	20 dB μ V + 10.36 dB + 6 dB = 36.36 dB μ V/m @ 3 m

ANSI STANDARD C63.4-2003 6.2.1 MEASUREMENT PROCEDURES: The UUT was placed on a table 80 cm high and with dimensions of 1 m by 1.5 m (non metallic table). The UUT was placed in the center of the table. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to at least 10th harmonic of the fundamental.

Peak readings were taken in three (3) orthogonal planes and the highest readings.

Measurements were made by Eurofins Product Service GmbH at the registered open field test site located at Storkower Str. 38c, 15526 Reichenwalde, Germany.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1 m to 4 m. The antenna was placed in both the horizontal and vertical planes.

ANTENNA & GROUND:

This unit uses internal antenna.

2.5 Test results

☒ 1st test

☐ test after modification

☐ production test

SECT.	TEST CASE	FCC 47 CFR PART	IC RSS-	Required	Test passed	Test failed
3	<i>TRANSMITTER PARAMETERS</i>					
3.1	RF power output conducted	2.1046 22.913(a) 24.232(c)	Gen §4.6 132 §4.4 133 §4.3	☐	☐	☐
3.2	RF power output radiated (ERP, EIRP)	22.913(a) 24.232(c)	132 §4.4 133 §4.3	☒	☒	☐
3.3	Occupied bandwidth	2.1049	Gen §4.4.1	☐	☐	☐
3.3	Emission bandwidth	22.917(b) 24.238(b)	-	☐	☐	☐
3.4	Frequency stability	2.1055 22.355 24.235	Gen §4.5 132 §4.3 133 §4.2	☐	☐	☐
3.5	Spurious emission conducted (antenna terminal)	2.1051 22.917 24.238	Gen §4.7 132 §4.5 133 §4.4	☐	☐	☐
3.6	Spurious emission radiated	2.1053 22.917 24.238	Gen §4.7 132 §4.5 133 §4.4	☒	☒	☐
3.7	Block edge compliance	22.917(b) 24.238(b)	132 §4.5.1.1 133 §4.4	☐	☐	☐
3.8	AC power line conducted emissions	15.207	-	☐	☐	☐
4	<i>RECEIVER PARAMETERS</i>					
4.1	Radiated emissions	2.1053 15.109	Gen 4.8 132 §4.6 133 §4.5	☒	☒	☐

3 Transmitter parameters

3.1 RF power output, radiated

Reference

	Cellular telephone 850 MHz	PCS 1900 MHz
FCC	CFR part 22.913(a)	CFR part 24.232(c)
IC	RSS-132 Issue 2, §4.4	RSS-133 Issue 3, §4.3

Method of measurement

The EUT was positioned on a non-conductive turntable, 0.8 m above the ground plane on an open test site. The radiated emission at the fundamental frequency was measured at 3 m distance with a test antenna and spectrum analyzer.

Worst case emission was recorded with the rotation of the turntable and the raising and lowering of the test antenna.

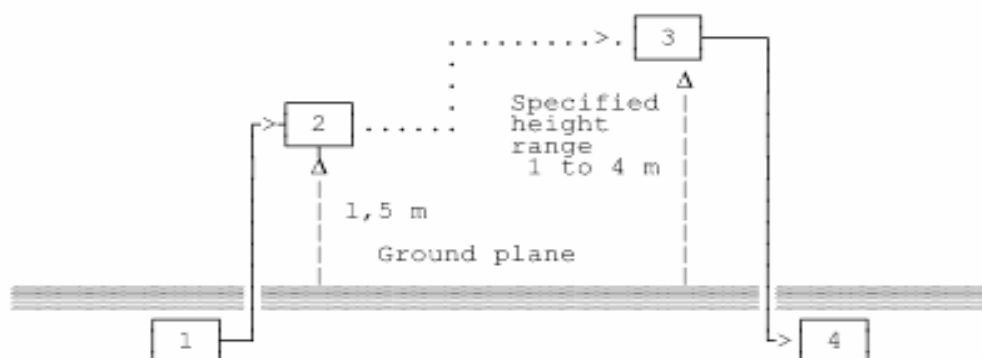
ERP in frequency band 824.2 - 848.8 MHz, and EIRP in frequency band 1850.2 - 1909.8 MHz were measured using a substitution method. The EUT was replaced by half-wave dipole (824.2 - 848.8 MHz) or horn antenna (1850.2 - 1909.8 MHz) connected to a signal generator.

Substitution RF power measurement at Eurofins Product Service GmbH

General:

The applied substitution method follows ANSI/TIA/EIA-603, ANSI/TIA/EIA-102.CAAA or the appropriate ETSI rules respectively.

The actual signal generated by the EUT can be determined by means of a substitution measurement in which a known signal source replaces the device to be measured.



- 1) Signal generator;
- 2) Substitution antenna;
- 3) Test antenna;
- 4) Spectrum analyzer or selective voltmeter.

The substitution antenna replaces the transmitter antenna at the same position and in vertical polarization. The frequency of the signal generator shall be adjusted to the measurement frequency. The test antenna shall be raised or lowered, if necessary, to ensure that the maximum signal is still received. The input signal to the substitution antenna shall be adjusted in level until an equal or a known related level to that detected from the transmitter is obtained in the measurement receiver.

If a fully anechoic chamber is used as test site in order to provide free space conditions there is no need to change the height of the antenna.

The measurement will be repeated in horizontal position.

Calibration:

In order to make this kind of measurement more effective and to avoid subjective measurement faults Eurofins has installed automatic computer controlled measurement procedures.

With the above described substitution method a test site is calibrated over the full frequency range which is used in suitable frequency steps. For a certain power level on the substitution antenna the received power over the whole frequency range is documented. All necessary antenna gains, cable losses, filter losses and amplifications of preamplifiers are taken in consideration. The summary of this calibration measurement performs a transducer factor that is related to the considered test site and a certain measurement distance. Differences of the radiated power levels of different test samples are determined by internal attenuation of the measurement receiver. The proper function of such test site will be maintained by short term plausibility checks and periodical re-calibration.

Testing:

The test sample is put on the table at the defined position and the measurement receiver receives and documents the radiated power. On test sites with ground plane the measurement antenna will be lowered and raised to maximum values at significant frequencies.

For peak power measurements the sample is turned by the turntable over 360 degree in order to find the direction with the maximum radiation or to document the max reading with the MAXHOLD function during the rotation.

Limits

	Cellular telephone 850 MHz	PCS 1900 MHz
FCC	38,5 dBm (7 Watts), ERP	33 dBm (2 Watts), EIRP
IC	38 dBm (6.3 Watts), ERP	33 dBm (2 Watts), EIRP

Test Results

	Frequency channel	Radiated power ERP	Radiated power EIRP
Cellular telephone 850 MHz	128	11.48dBm	-
	188	13.46dBm	-
	251	16.75dBm	-
PCS 1900 MHz	512	-	29.53dBm
	661	-	28.28dBm
	810	-	28.38dBm

Comment: See attached diagrams.

Test equipment: ETS 0014, ETS 0281, ETS 0295, ETS 0310, ETS 0416, ETS 0484

3.2 Spurious emission radiated

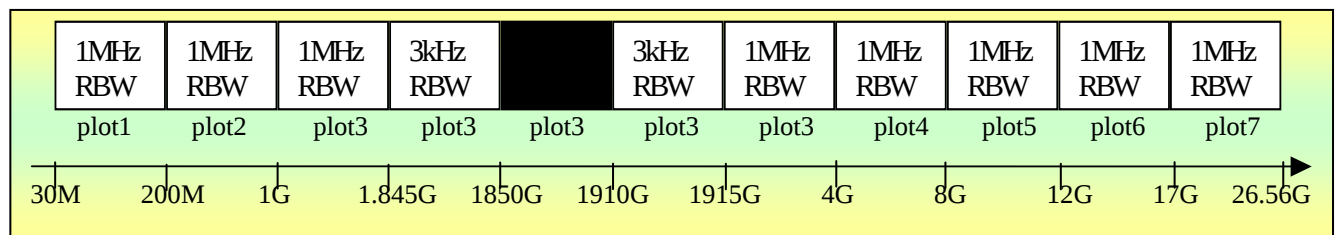
Reference

	Cellular telephone 850 MHz	PCS 1900 MHz
FCC	CFR part 22.917, 2.1053	CFR part 24.238, 2.1053
IC	RSS-132 Issue 2, §4.5 RSS-Gen Issue 1, §4.7	RSS-133 Issue 3, §4.4 RSS-Gen Issue 1, §4.7

Method of measurement

The EUT was positioned on a non-conductive turntable, 0.8m above the ground plane.
The radiated emission at the fundamental frequency was measured at 3 m distance with a test antenna and spectrum analyzer.

Worst case emission was recorded with the rotation of the turntable and the raising and lowering of the test antenna.



ERP was measured using a substitution method. The EUT was replaced by horn antenna connected to a signal generator.

The frequency range up to tenth harmonic was investigated.

The tests of spurious radiated emission have been carried out with the EKS-Software from Rohde & Schwarz.

The analyzer gives automatic the measurements of spectral plots to the EKS software.

In the 1st 1 MHz band outside the band edge nearest the channel of interest a 3 kHz res. BW is used. The measurements from 30 MHz to 1845 GHz and 1915 GHz to 26.56 GHz were performed with a measurement bandwidth of 1 MHz.

Calculation of test results:

Such factors like antenna correction, cable loss, external attenuation etc. are already included in the provided measurement results. This is done by using validated test software and calibrated test system according the accreditation requirements.

The peak and average spurious emission plots was measured with the average limits.
In the Table being listed the critical peak and average value an exhibit the compliance with the above calculated Limits.

Limits

	Cellular telephone 850 MHz	PCS 1900 MHz
FCC	Pc - (43 + 10 log (P) dB)	Pc - (43 + 10 log (P) dB)
IC	Pc - (43 + 10 log (P) dB)	Pc - (43 + 10 log (P) dB)

Test results

Summary table with radiated data of the test plots for Carrier Test Frequency 824,2 MHz

Spectral Plot	Frequency Marker Indication [MHz]	Indication Power Level [dBm]	External Attn. [dB]	Worst Case Emission Level [dBm]	Compliance Limit [dBm]	Margin
vertical	97,114	-56,63	0	-56,63	-13	-43,63
horizontal	37,495	-46,89	0	-46,89	-13	-33,89
vertical	875,944	-41,14	0	-41,14	-13	-28,14
horizontal	856,341	-31,95	0	-31,95	-13	-18,95
vertical	1.649,000	-35,21	0	-35,21	-13	-22,21
horizontal	3.297,000	-37,34	0	-37,34	-13	-24,34
vertical	4.946,000	-41,76	0	-41,76	-13	-28,76
horizontal	6.814,000	-40,29	0	-40,29	-13	-27,29
vertical	11.102,000	-39,37	0	-39,37	-13	-26,37
horizontal	11.022,000	-37,80	0	-37,80	-13	-24,80

Summary table with radiated data of the test plots for Carrier Test Frequency 836,2 MHz

Spectral Plot	Frequency Marker Indication [MHz]	Indication Power Level [dBm]	External Attn.[dB]	Worst Case Emission Level [dBm]	Compliance Limit [dBm]	Margin
vertical	97,114	-54,78	0	-54,78	-13	-41,78
horizontal	88,257	-46,09	0	-46,09	-13	-33,09
vertical	875,944	-40,82	0	-40,82	-13	-27,82
horizontal	860,144	-32,41	0	-32,41	-13	-19,41
vertical	1.673,000	-36,70	0	-36,70	-13	-23,70
horizontal	3.345,000	-34,30	0	-34,30	-13	-21,30
vertical	5.018,000	-42,53	0	-42,53	-13	-29,53
horizontal	7.503,000	-40,70	0	-40,70	-13	-27,70
vertical	10.725,000	-39,33	0	-39,33	-13	-26,33
horizontal	10.974,000	-37,49	0	-37,49	-13	-24,49

Summary table with radiated data of the test plots for Carrier Test Frequency 848,8 MHz

Spectral Plot	Frequency Marker Indication [MHz]	Indication Power Level [dBm]	External Attn.[dB]	Worst Case Emission Level [dBm]	Compliance Limit [dBm]	Margin
vertical	97,114	-56,15	0	-56,15	-13	-43,15
horizontal	90,301	-46,36	0	-46,36	-13	-33,36
vertical	875,944	-40,90	0	-40,90	-13	-27,90
horizontal	857,218	-32,08	0	-32,08	-13	-19,08
vertical	3.399,000	-37,76	0	-37,76	-13	-24,76
horizontal	3.399,000	-32,37	0	-32,37	-13	-19,37
vertical	4.240,000	-40,18	0	-40,18	-13	-27,18
horizontal	7.487,000	-39,85	0	-39,85	-13	-26,85
vertical	11.110,000	-39,52	0	-39,52	-13	-26,52
horizontal	10.982,000	-36,69	0	-36,69	-13	-23,69

Comment: See attached diagrams.

PCS 1900

Summary table with radiated data of the test plots for Carrier Test Frequency 1850.2 MHz

Spectral Plot	Frequency Marker Indication [MHz]	Indication Power Level [dBm]	External Attn. [dB]	Worst Case Emission Level [dBm]	Compliance Limit [dBm]	Margin
vertical	97,114	-61,11	0	-61,11	-13	-48,11
horizontal	97,114	-59,79	0	-59,79	-13	-46,79
vertical	983,968	-52,06	0	-52,06	-13	-39,06
horizontal	863,727	-50,83	0	-50,83	-13	-37,83
vertical	1.850,000	-21,12	0	-21,12	-13	-8,12
horizontal	1.850,000	-22,86	0	-22,86	-13	-9,86
vertical	7.407,000	-41,38	0	-41,38	-13	-28,38
horizontal	7.407,000	-42,30	0	-42,30	-13	-29,30
vertical	11.134,000	-39,57	0	-39,57	-13	-26,57
horizontal	10.974,000	-39,24	0	-39,24	-13	-26,24
vertical	17.663,000	-33,54	0	-33,54	-13	-20,54
horizontal	17.808,000	-33,64	0	-33,64	-13	-20,64
vertical	26.006,000	-36,24	0	-36,24	-13	-23,24
horizontal	25.989,000	-37,10	0	-37,10	-13	-24,10

Summary table with radiated data of the test plots for Carrier Test Frequency 1880.0 MHz

Spectral Plot	Frequency Marker Indication [MHz]	Indication Power Level [dBm]	External Attn.[dB]	Worst Case Emission Level [dBm]	Compliance Limit [dBm]	Margin
vertical	97,114	-63,65	0	-63,65	-13	-50,65
horizontal	97,114	-61,68	0	-61,68	-13	-48,68
vertical	979,158	-51,90	0	-51,90	-13	-38,90
horizontal	854,108	-50,75	0	-50,75	-13	-37,75
vertical	3.850,000	-27,78	0	-27,78	-13	-14,78
horizontal	3.967,000	-27,28	0	-27,28	-13	-14,28
vertical	7.527,000	-42,30	0	-42,30	-13	-29,30
horizontal	5.643,000	-42,87	0	-42,87	-13	-29,87
vertical	11.030,000	-39,43	0	-39,43	-13	-26,43
horizontal	11.110,000	-39,26	0	-39,26	-13	-26,26
vertical	17.579,000	-33,01	0	-33,01	-13	-20,01
horizontal	17.615,000	-33,60	0	-33,60	-13	-20,60
vertical	25.989,000	-35,93	0	-35,93	-13	-22,93
horizontal	266.006,000	-38,22	0	-38,22	-13	-25,22

Summary table with radiated data of the test plots for Carrier Test Frequency 1909.8 MHz

Spectral Plot	Frequency Marker Indication [MHz]	Indication Power Level [dBm]	External Attn.[dB]	Worst Case Emission Level [dBm]	Compliance Limit [dBm]	Margin
vertical	33,066	-64,03	0	-64,03	-13	-51,03
horizontal	97,114	-63,62	0	-63,62	-13	-50,62
vertical	974,349	-50,60	0	-50,60	-13	-37,60
horizontal	870,140	-49,85	0	-49,85	-13	-36,85
vertical	1.910,000	-16,94	0	-16,94	-13	-3,94
horizontal	1.910,000	-23,10	0	-23,10	-13	-10,10
vertical	5.731,000	-42,75	0	-42,75	-13	-29,75
horizontal	5.731,000	-42,18	0	-42,18	-13	-29,18
vertical	10.709,000	-39,80	0	-39,80	-13	-26,80
horizontal	10.990,000	-39,28	0	-39,28	-13	-26,28
vertical	17.675,000	-33,64	0	-33,64	-13	-20,64
horizontal	17.747,000	-34,04	0	-34,04	-13	-21,04
vertical	26.006,000	-35,17	0	-35,17	-13	-22,17
horizontal	26.023,000	-37,43	0	-37,43	-13	-24,43

Comment: See attached diagrams.

Test equipment: ETS 0014, ETS 0294, ETS 0295, ETS 0310, ETS 0416, ETS 0484

4 Receiver parameters

4.1 Radiated emissions

Reference

	Cellular telephone 850 MHz	PCS 1900 MHz
FCC	CFR part 15.109, 2.1053	CFR part 15.109, 2.1053
IC	RSS-132 Issue 2, 4.6 RSS-Gen Issue 1, §4.8	RSS-133 Issue 3, §4.5 RSS-Gen Issue 1, §4.8

Method of measurement

The receiver shall be operated in the normal receive mode near the mid-point of the band(s) over which the receiver is designed to operate.

The measurement method is the radiated emission measurement. The measurement starts at 30 MHz and ends at least 3 times the highest tunable local oscillator frequency (6 GHz).

Limits

	Cellular telephone 850 MHz	PCS 1900 MHz
FCC	Spurious frequency [MHz]	Field strength microvolt/m at 3 meters
	30 - 88	100
	88 - 216	150
	216 - 960	200
	above 960	500
IC	Not applicable	

Test Results

	Frequency marker indication [MHz]	Antenna polarization	Worst case emission level $\mu\text{V/m}$	Compliance limit $\mu\text{V/m}$	Margin $\mu\text{V/m}$
Cellular telephone 850 MHz	46	horizontal	46.56	100	-53.44
	145	vertical	46.08	150	-103.92
	367	vertical	34.59	200	-165.41
	877	horizontal	40.83	200	-159.17
	877	vertical	176.40	200	-23.60
	3946	vertical	107.28	500	-392.72
	3992	horizontal	119.81	500	-380.19

	Frequency marker indication [MHz]	Antenna polarization	Worst case emission level $\mu\text{V/m}$	Compliance limit $\mu\text{V/m}$	Margin $\mu\text{V/m}$
PCS 1900 MHz	148	vertical	43.70	150	-106.30
	151	horizontal	45.87	150	-104.13
	455	vertical	49.49	200	-150.51
	492	horizontal	45.60	200	-154.40
	1944	vertical	186.21	500	-313.79
	3928	horizontal	113.89	500	-386.11
	7663	vertical	142.56	500	-357.44
	7976	horizontal	121.90	500	-378.10

Comment: See attached diagrams.

Test equipment: ETS 0014, ETS 0294, ETS 0295, ETS 0310, ETS 0416, ETS 0484

ANNEX

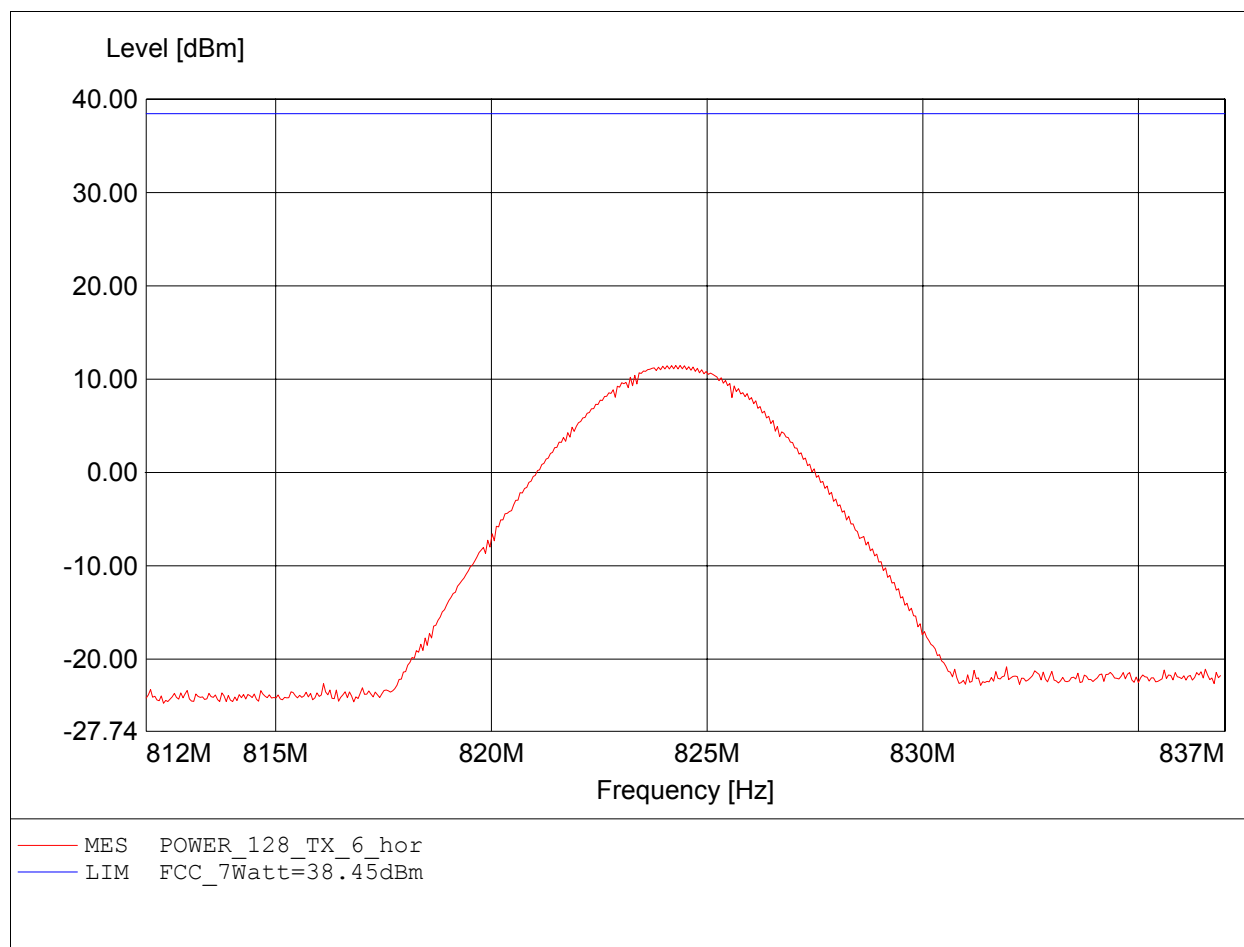
A	Pictures	Page 21
B	RF power output radiated	Page 26
C	Spurious emission radiated TX	Page 39
D	Spurious emission radiated RX	Page 112

Annex B

RF power output radiated

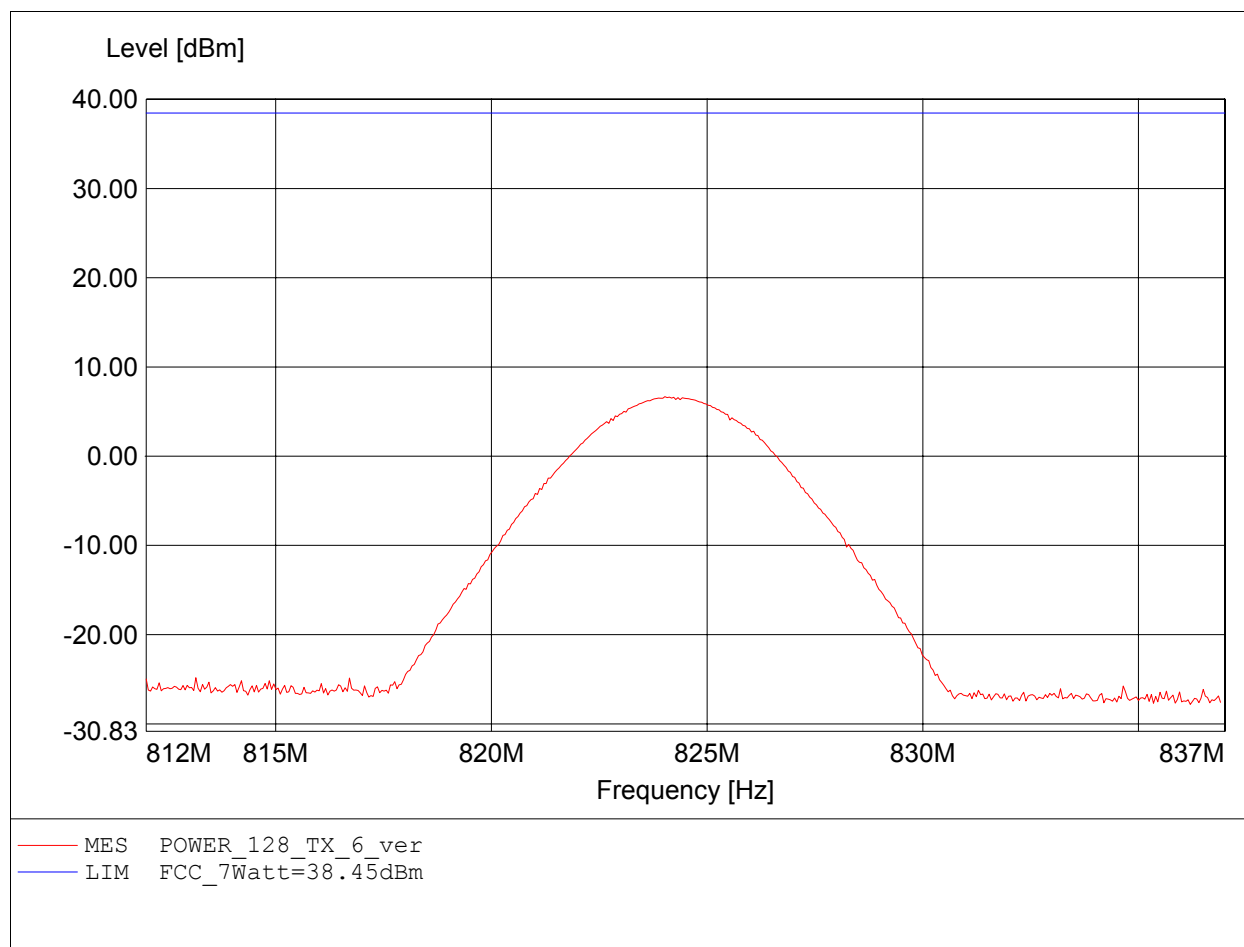
Effective Radiated Power
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 128
Comment 1: Dist.: 3m, Ant.: HL223
Comment 2: Freq: 824.375MHz, Pmax: 11.48dBm, RBW: 3MHz



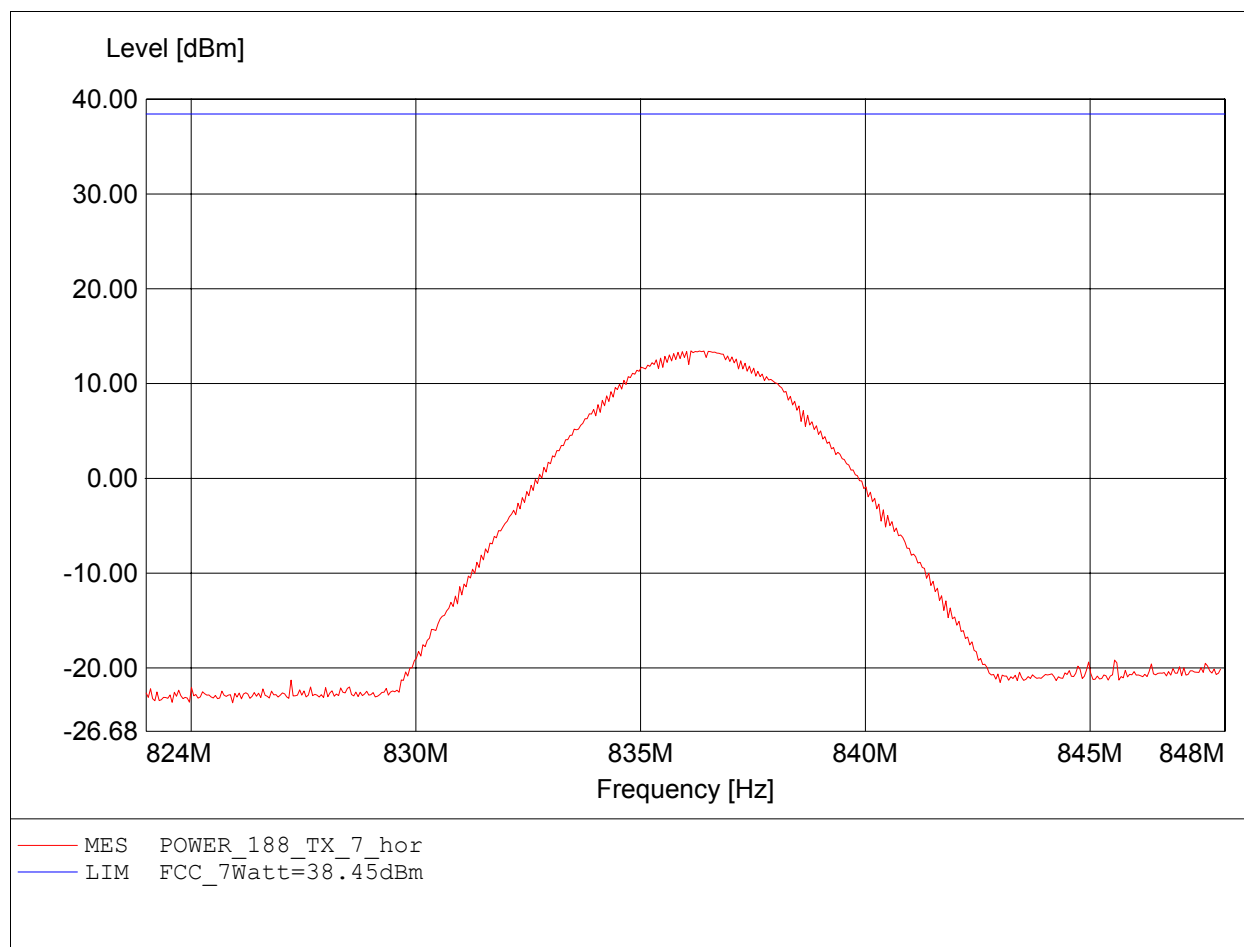
Effective Radiated Power
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 128
Comment 1: Dist.: 3m, Ant.: HL223
Comment 2: Freq: 824.024MHz, Pmax: 6.67dBm, RBW: 3MHz



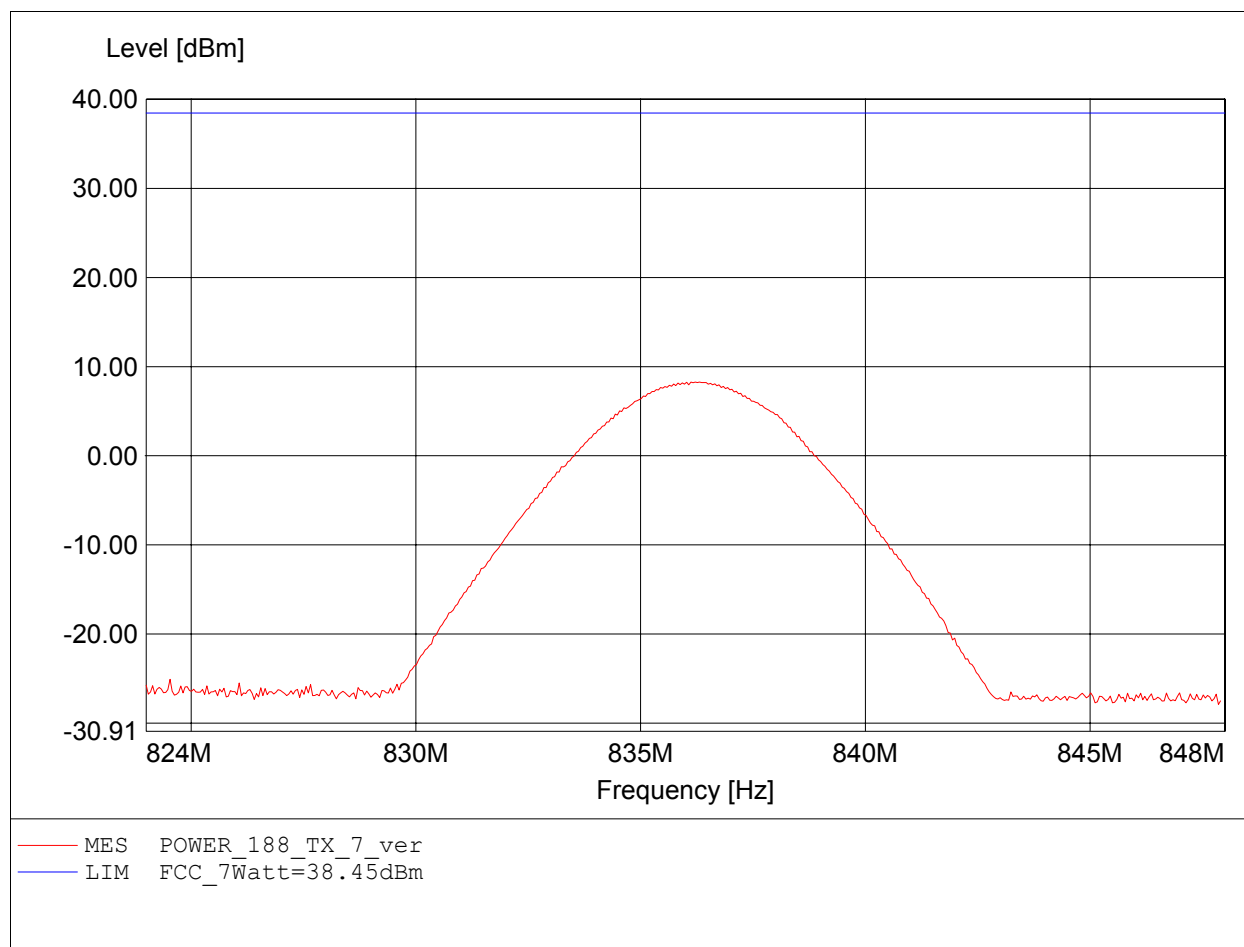
Effective Radiated Power
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 188
Comment 1: Dist.: 3m, Ant.: HL223
Comment 2: Freq: 836.120MHz, Pmax: 13.46dBm, RBW: 3MHz



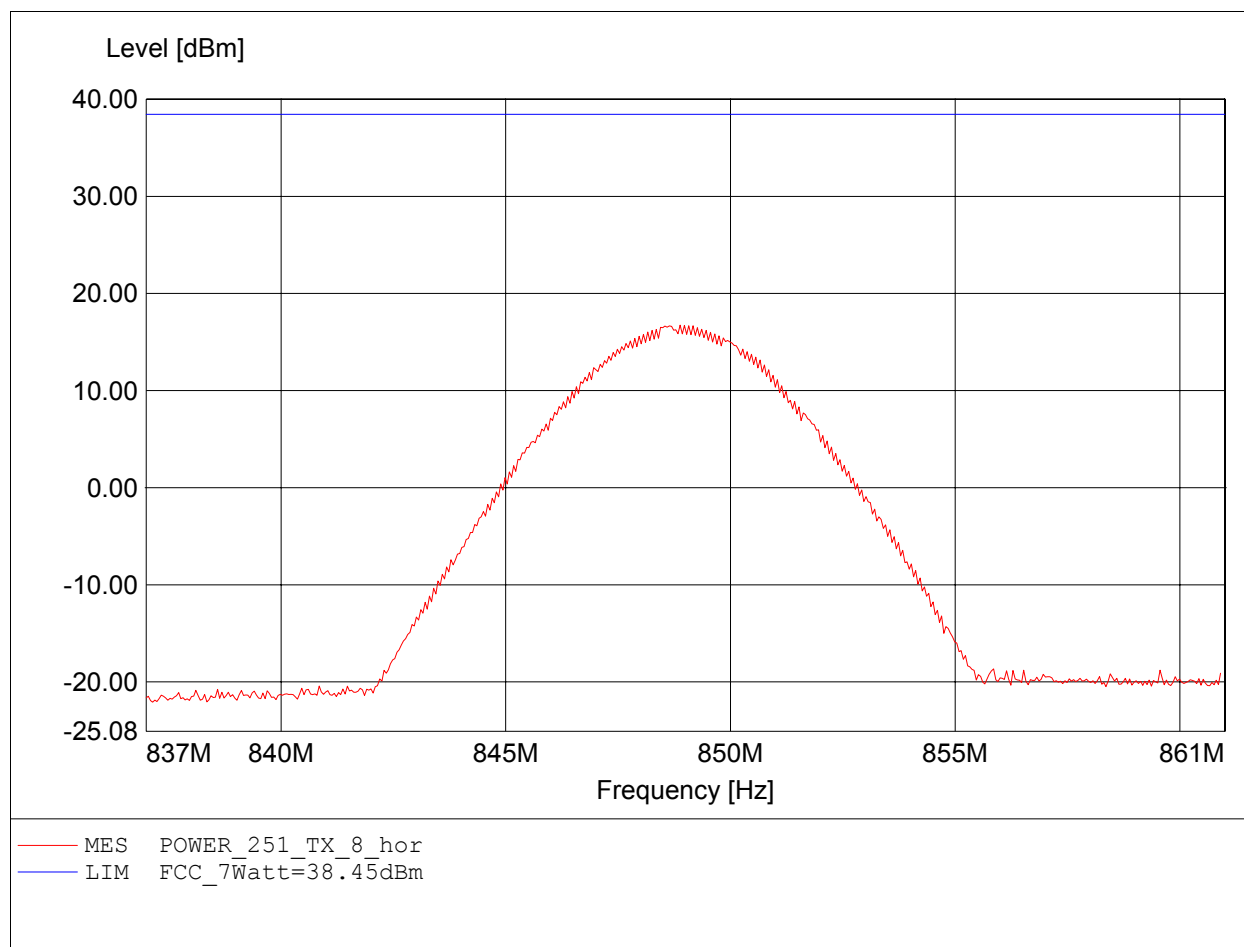
Effective Radiated Power
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 188
Comment 1: Dist.: 3m, Ant.: HL223
Comment 2: Freq: 836.120MHz, Pmax: 8.28dBm, RBW: 3MHz



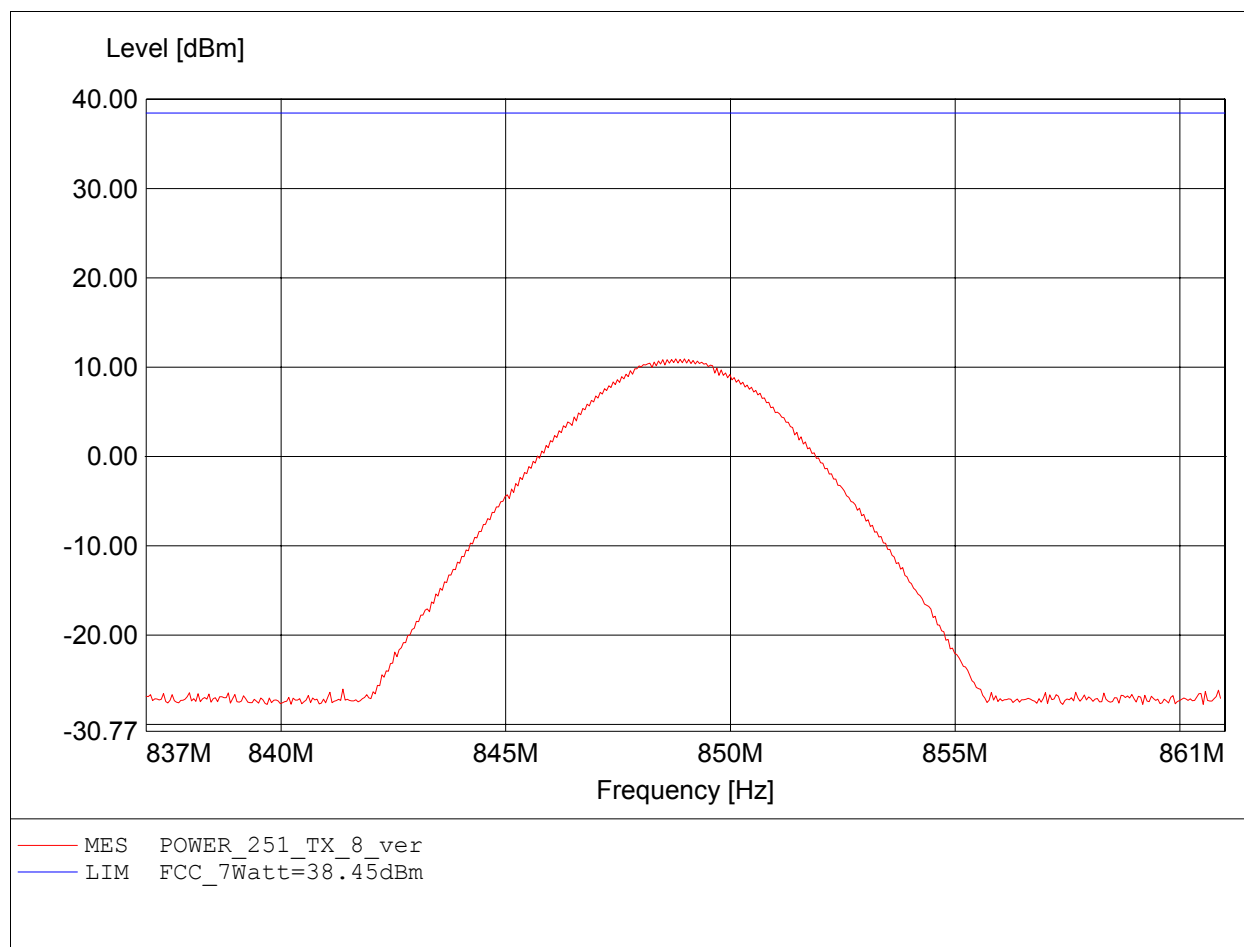
Effective Radiated Power
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 251
Comment 1: Dist.: 3m, Ant.: HL223
Comment 2: Freq: 848.880MHz, Pmax: 16.75dBm, RBW: 3MHz



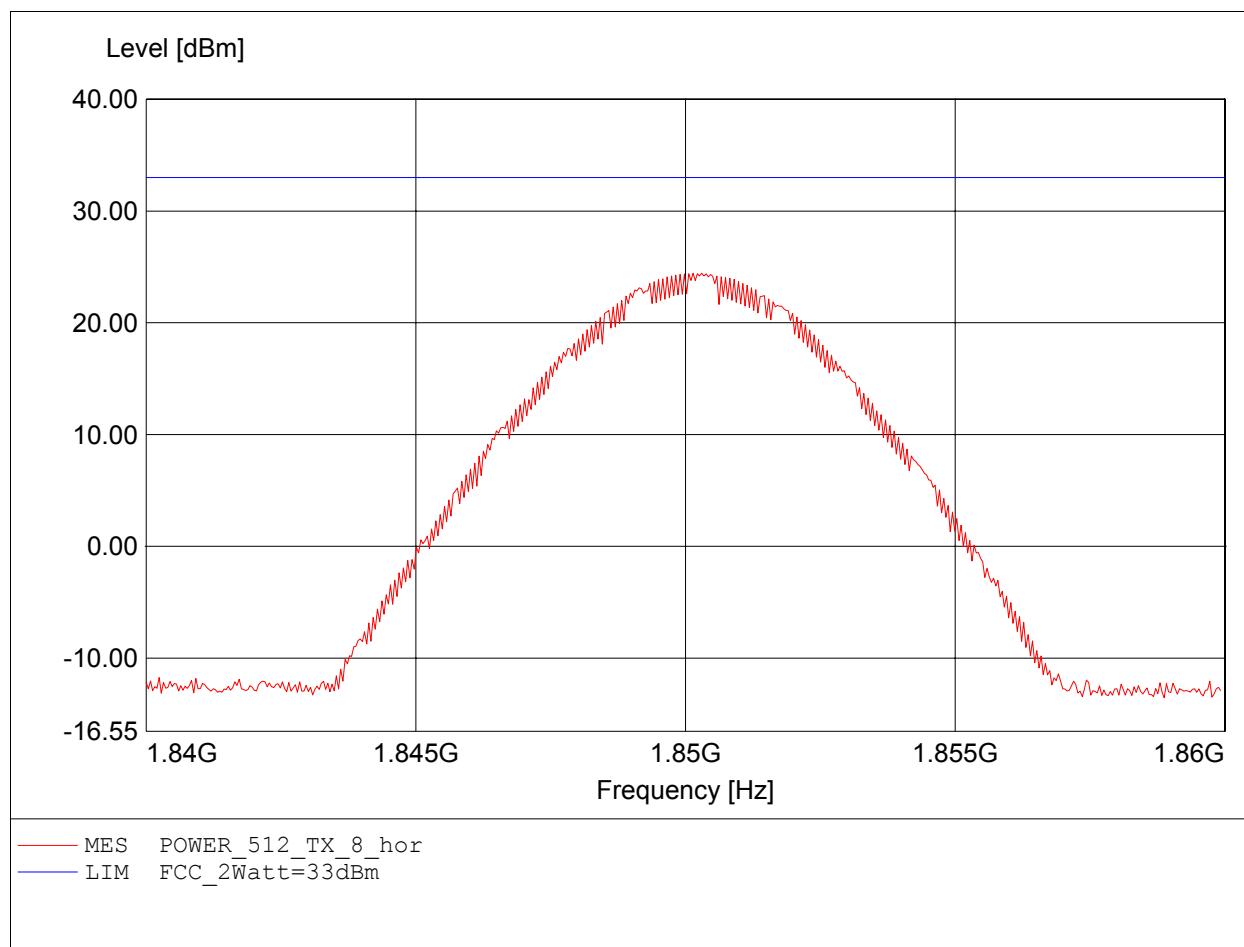
Effective Radiated Power
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 251
Comment 1: Dist.: 3m, Ant.: HL223
Comment 2: Freq: 848.784MHz, Pmax: 10.93dBm, RBW: 3MHz



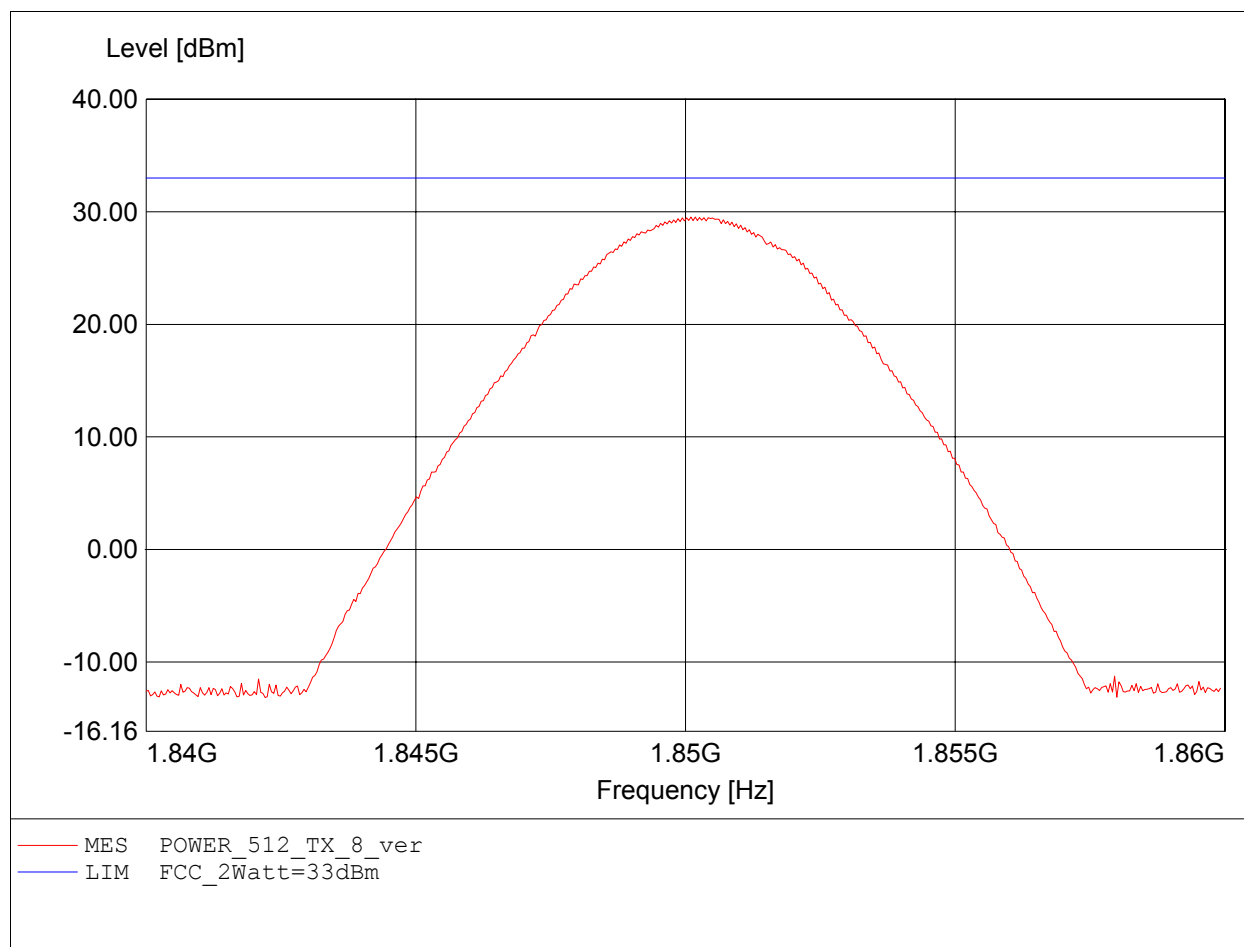
Equivalent Isotropically Radiated Power
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 512
Comment 1: Dist.: 3m, Ant.: HL025,PCL 0
Comment 2: Freq: 1.850GHz, Pmax: 24.44dBm, RBW: 3MHz



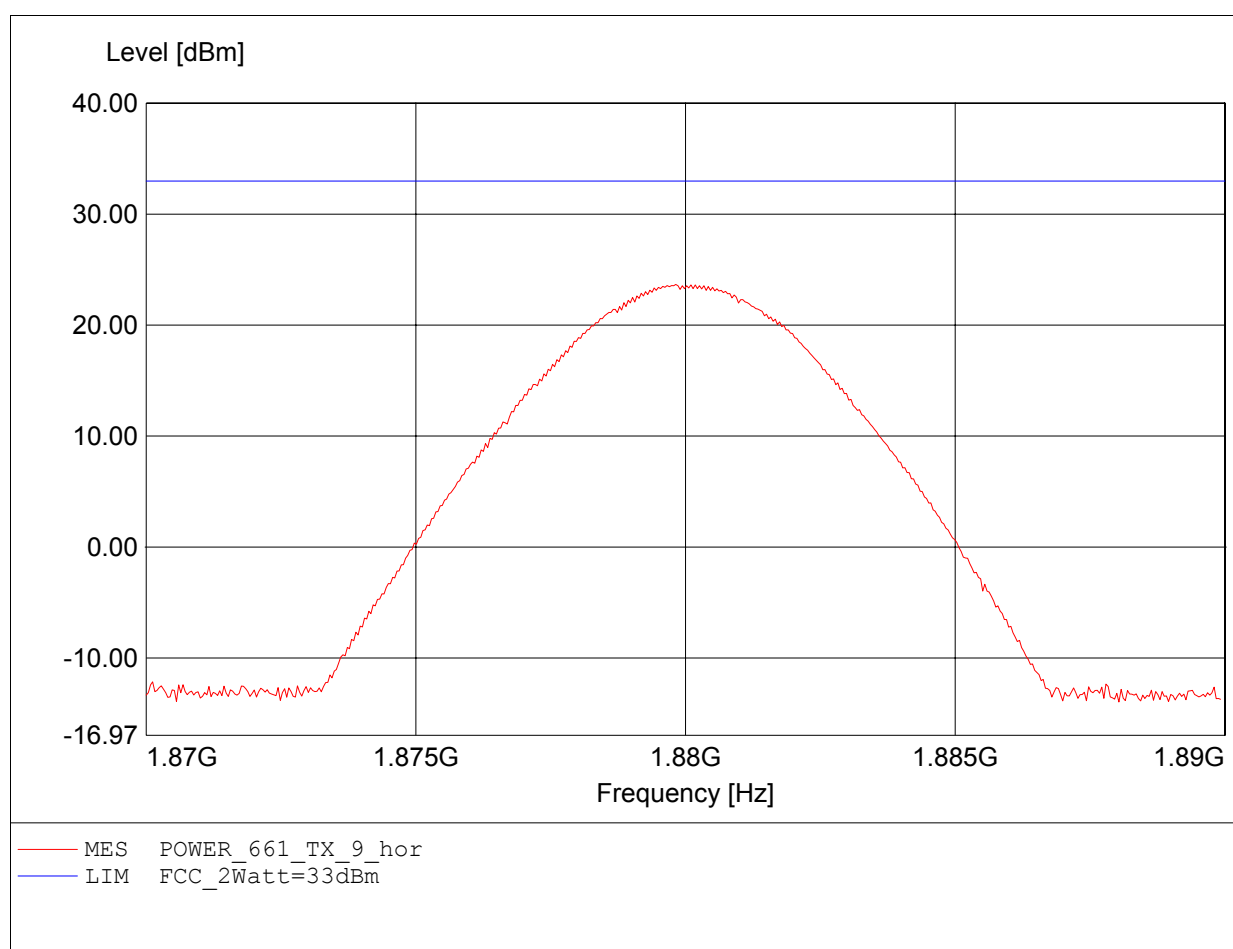
Equivalent Isotropically Radiated Power
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 512
Comment 1: Dist.: 3m, Ant.: HL025,PCL 0
Comment 2: Freq: 1.850GHz, Pmax: 29.53dBm, RBW: 3MHz



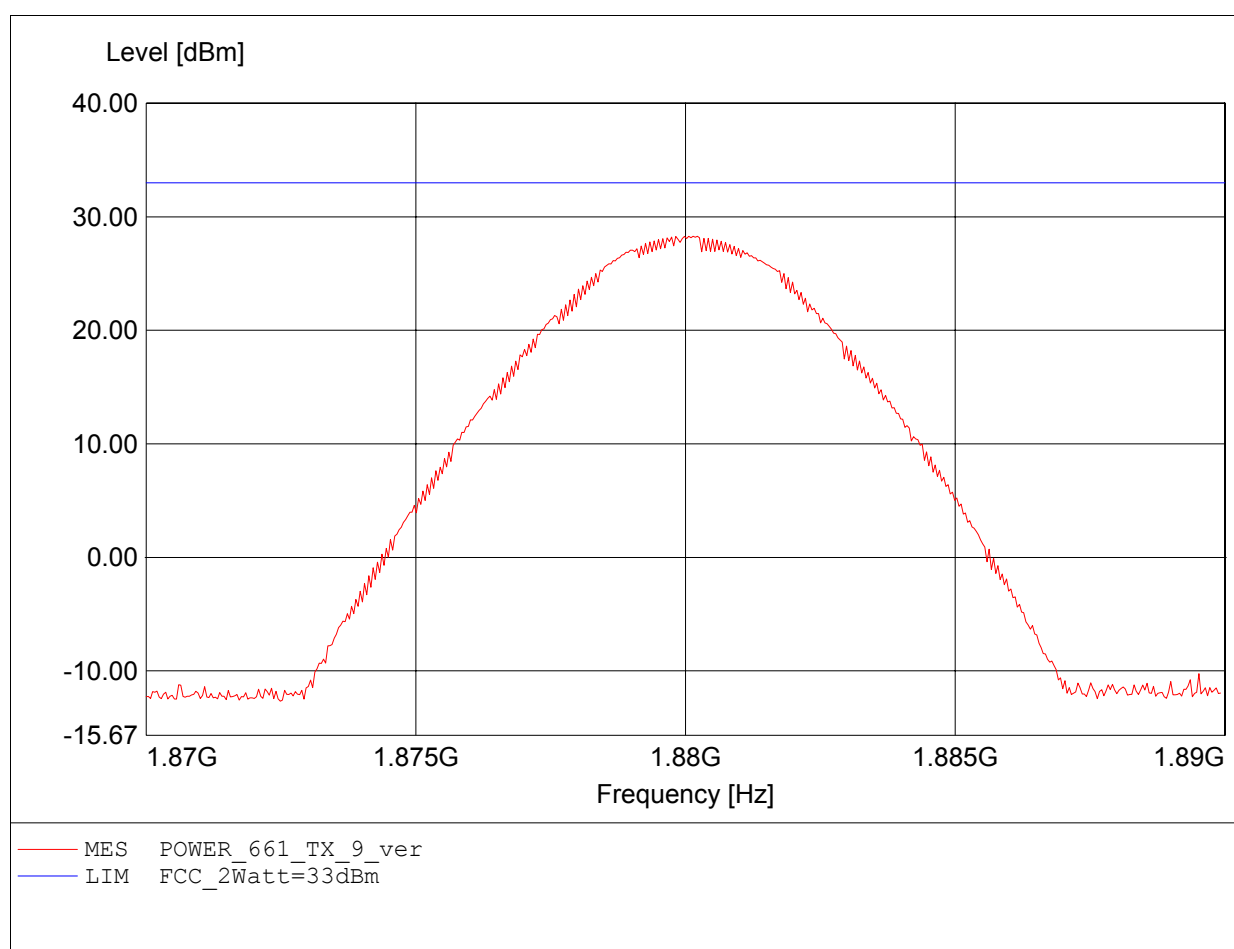
Equivalent Isotropically Radiated Power
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 661
Comment 1: Dist.: 3m, Ant.: HL025,PCL 0
Comment 2: Freq: 1.880GHz, Pmax: 23.68dBm, RBW: 3MHz



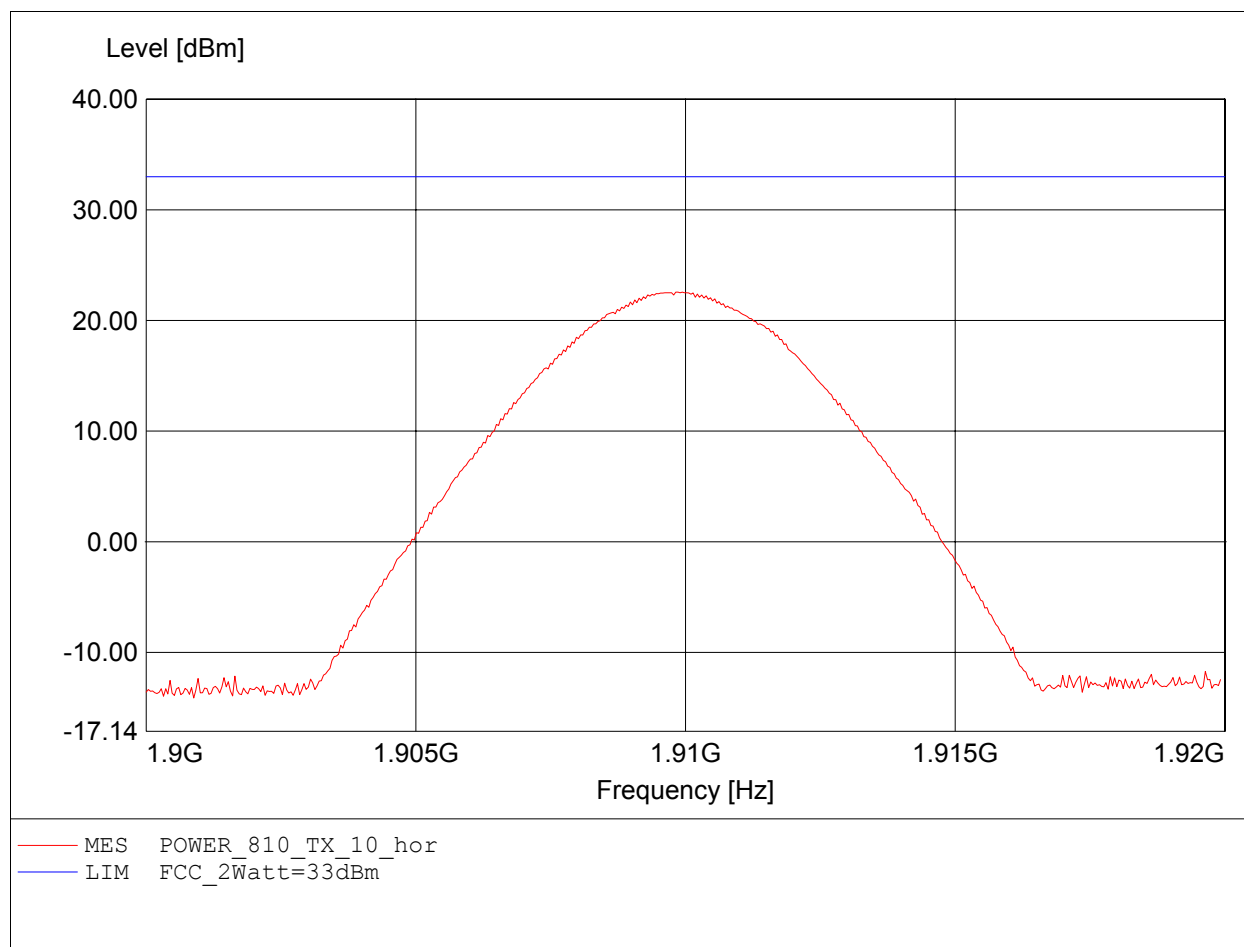
Equivalent Isotropically Radiated Power
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 661
Comment 1: Dist.: 3m, Ant.: HL025,PCL 0
Comment 2: Freq: 1.880GHz, Pmax: 28.28dBm, RBW: 3MHz



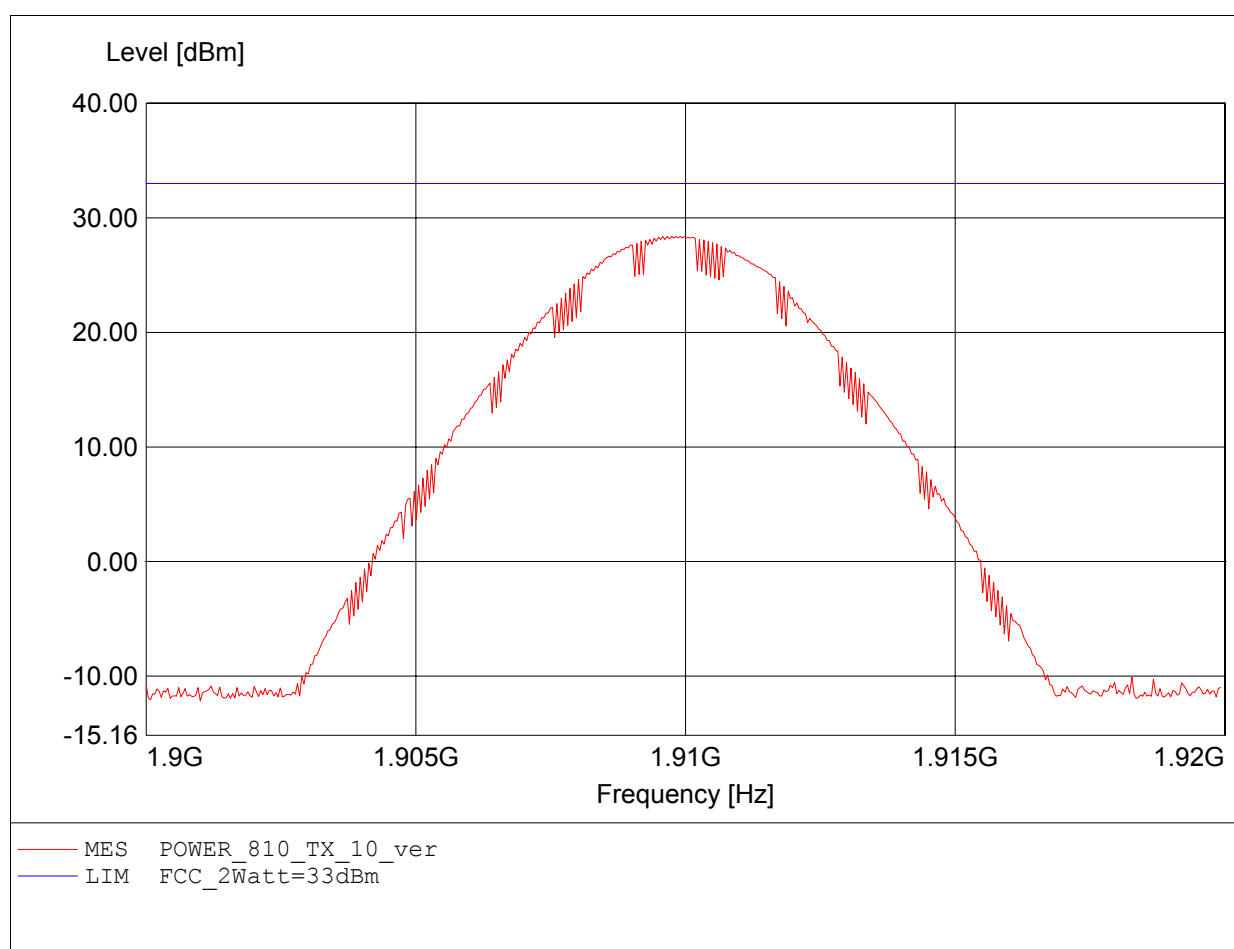
Equivalent Isotropically Radiated Power
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 810
Comment 1: Dist.: 3m, Ant.: HL025,PCL 0
Comment 2: Freq: 1.910GHz, Pmax: 22.57dBm, RBW: 3MHz



Equivalent Isotropically Radiated Power
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 810
Comment 1: Dist.: 3m, Ant.: HL025,PCL 0
Comment 2: Freq: 1.910GHz, Pmax: 28.38dBm, RBW: 3MHz

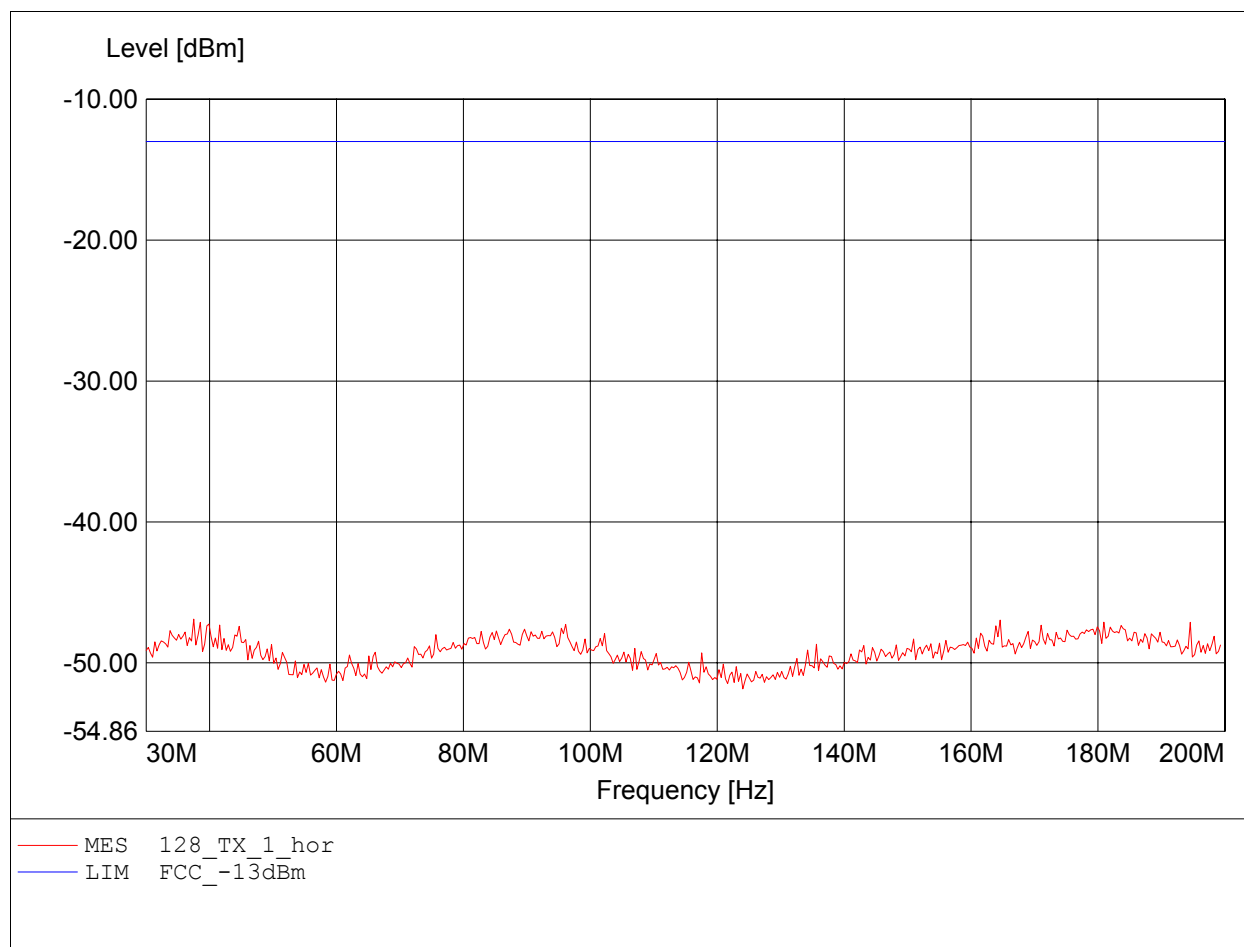


Annex C

Spurious emission radiated TX

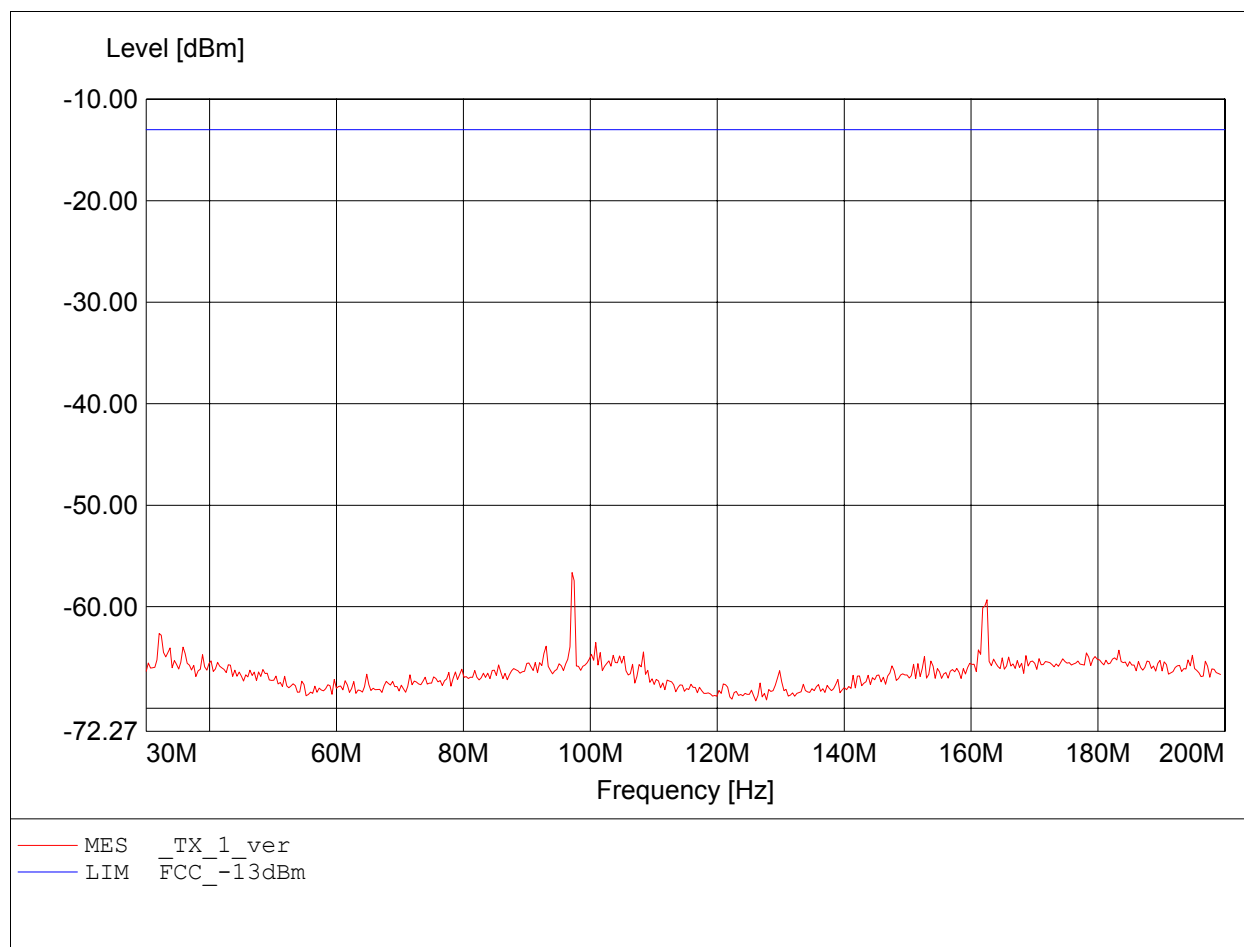
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 128
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 37.495MHz, Pmax: -46.89dBm, RBW: 100kHz



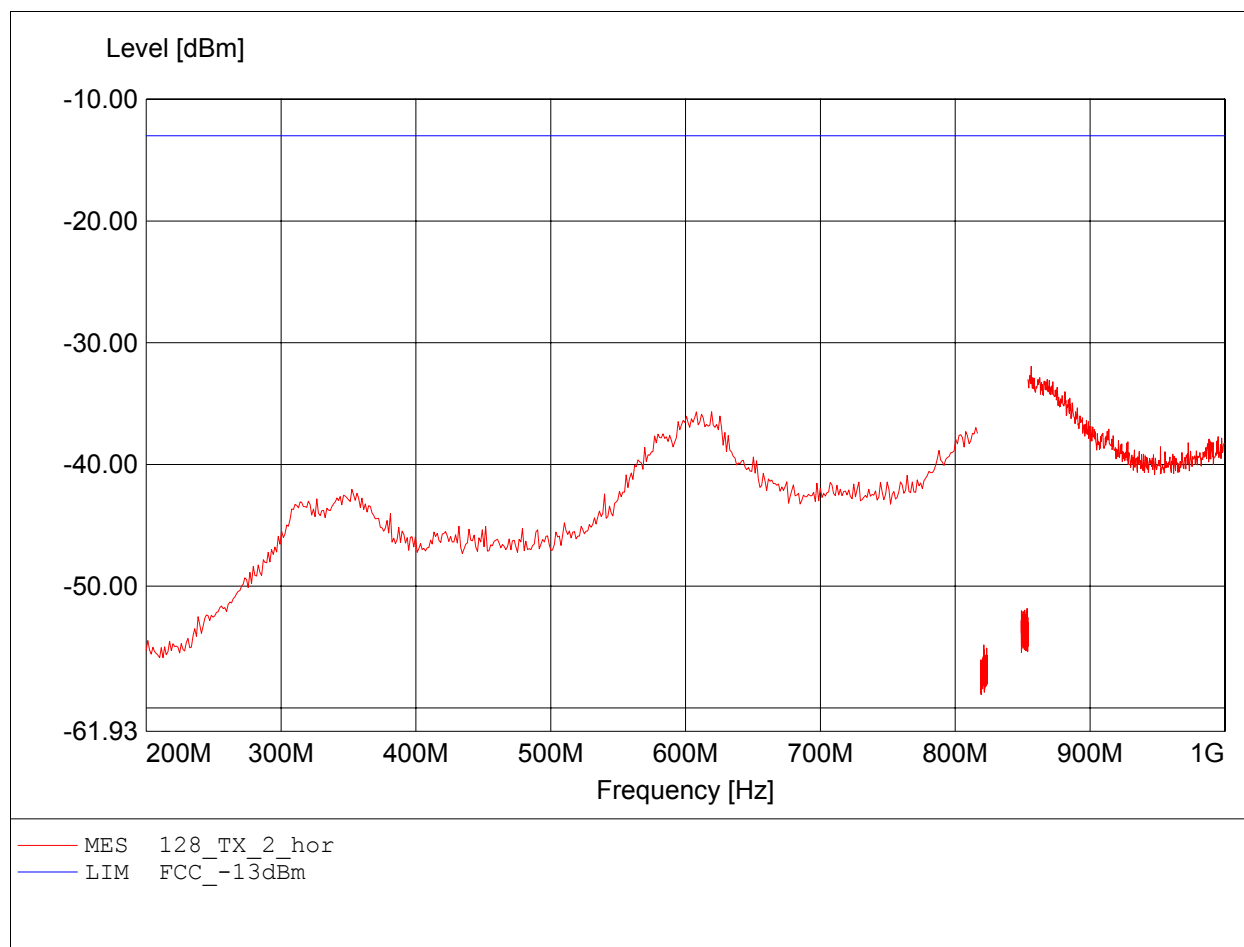
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 128
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 97.114MHz, Pmax: -56.63dBm, RBW: 100kHz



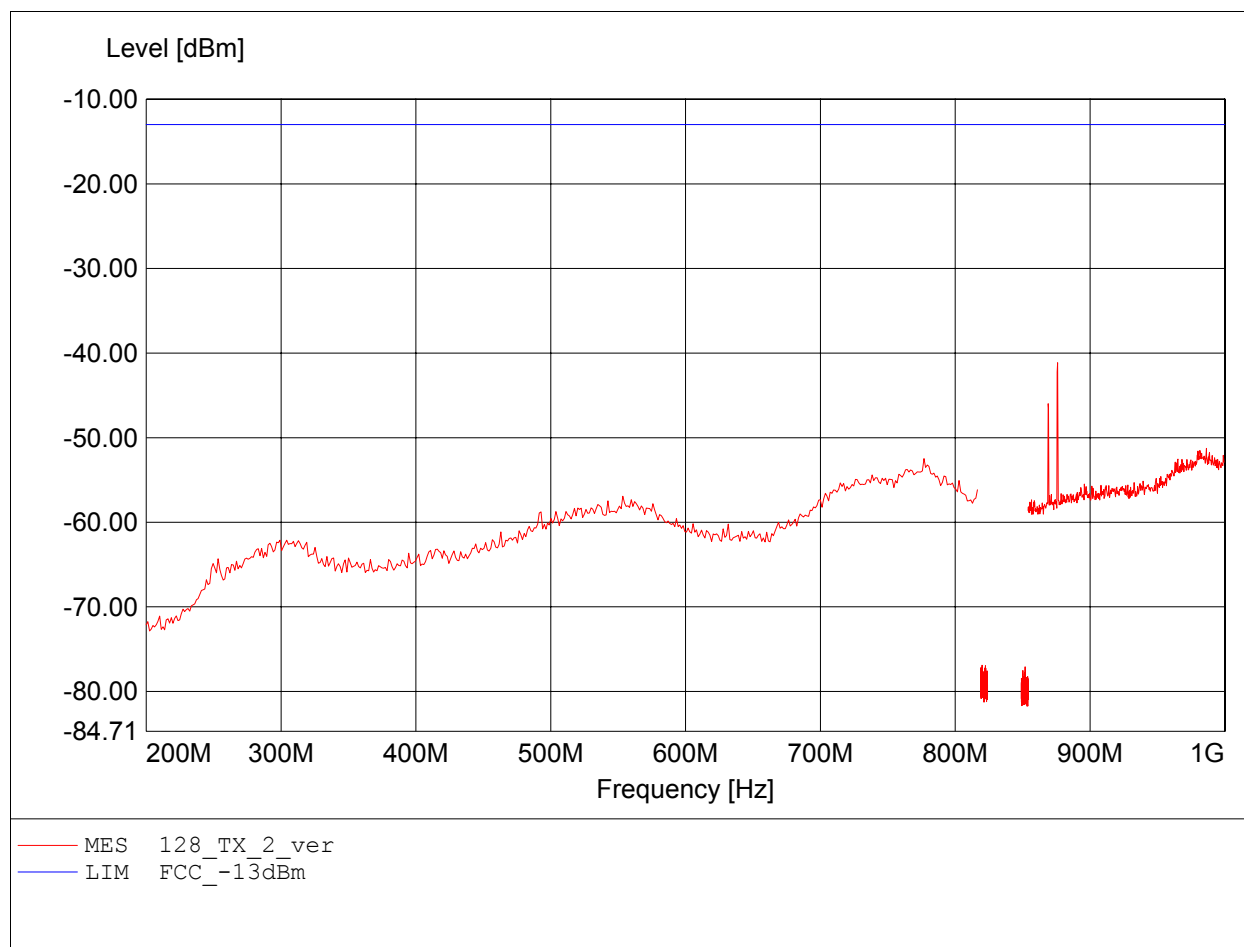
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 128
Comment 1: Dist.: 3m, Ant.: HL 223+notch
Comment 2: Freq: 856.341MHz, Pmax: -31.95dBm, RBW: 100kHz



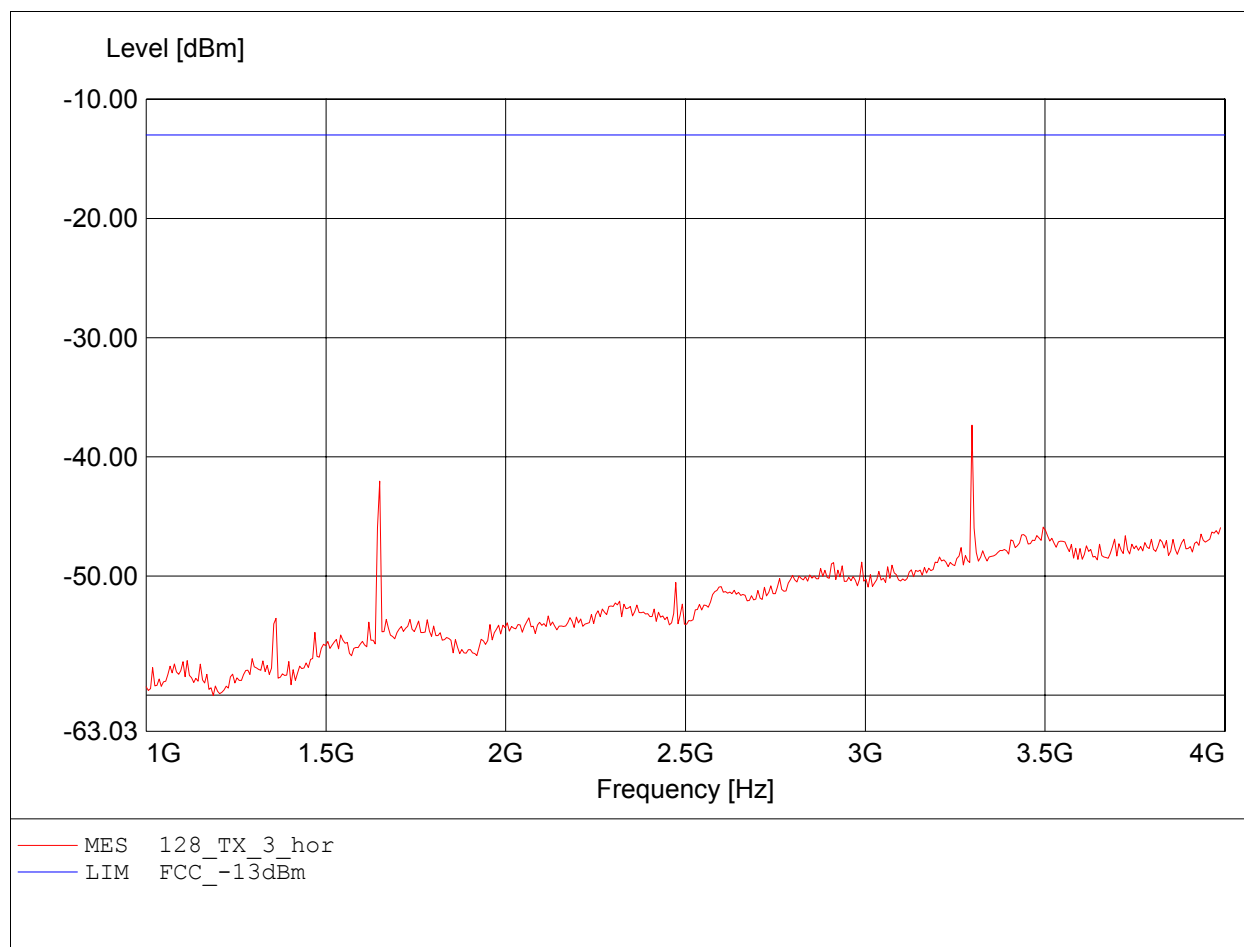
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 128
Comment 1: Dist.: 3m, Ant.: HL 223+notch
Comment 2: Freq: 875.944MHz, Pmax: -41.14dBm, RBW: 100kHz



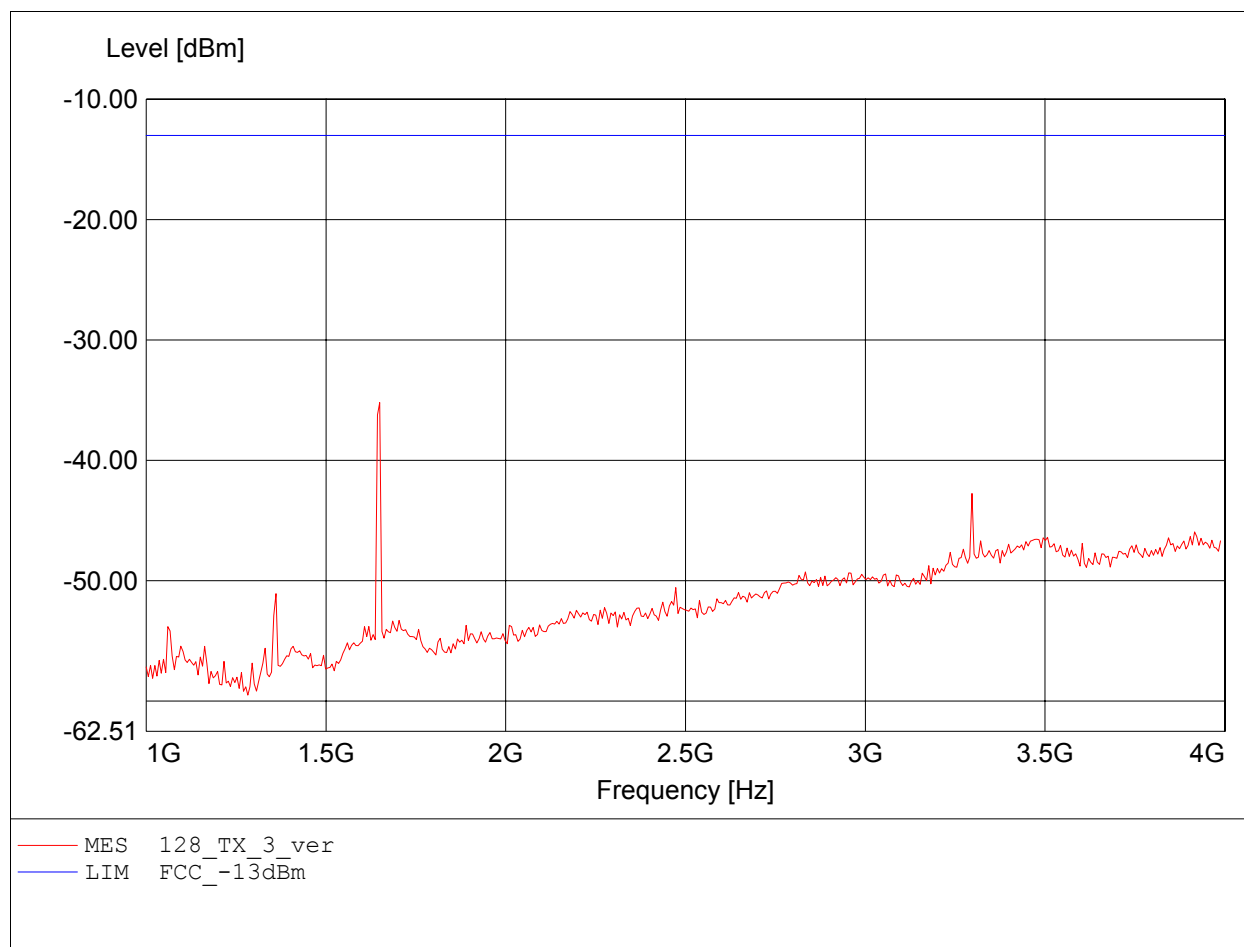
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 128
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 3.297GHz, Pmax: -37.34dBm, RBW: 1MHz



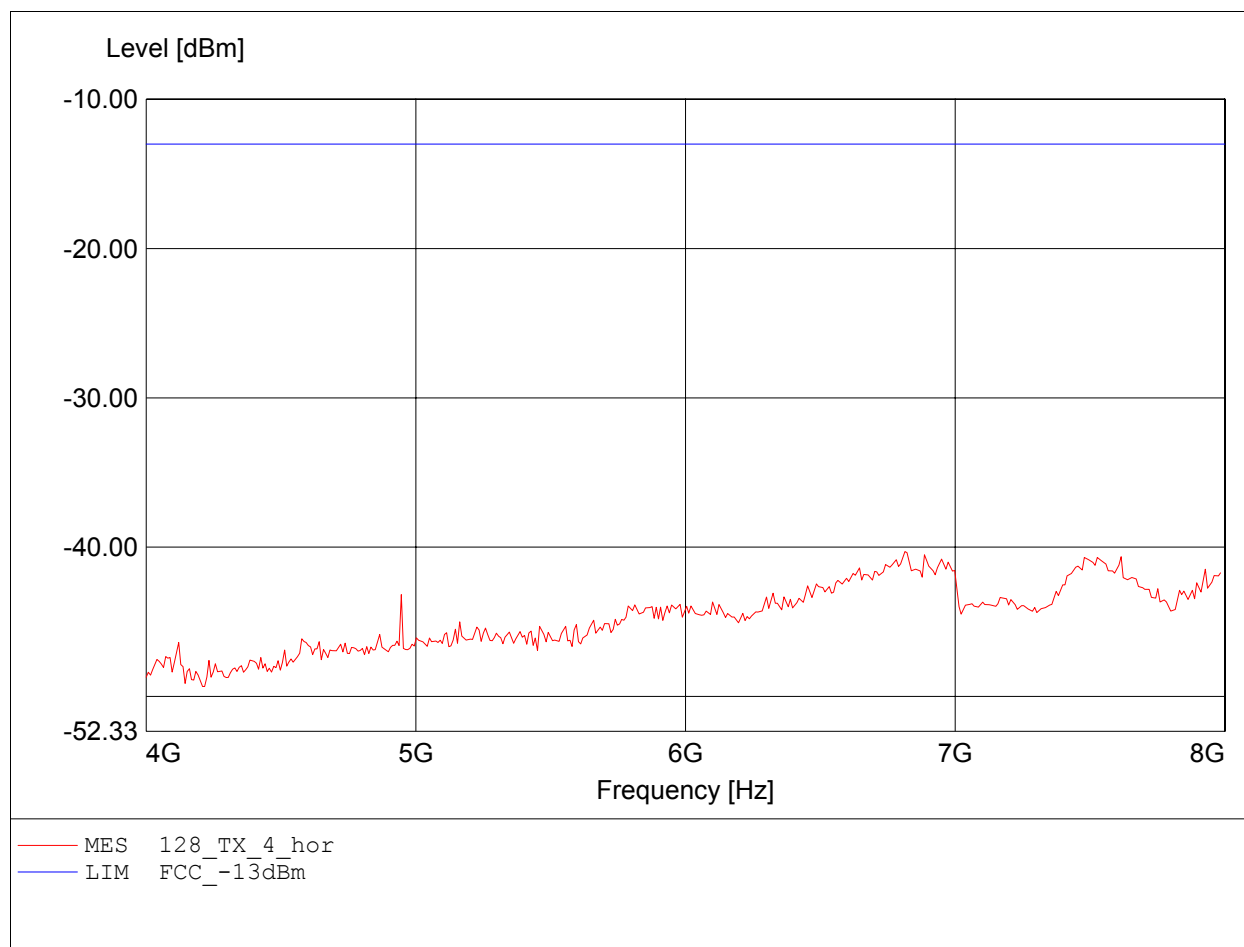
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 128
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 1.649GHz, Pmax: -35.21dBm, RBW: 1MHz



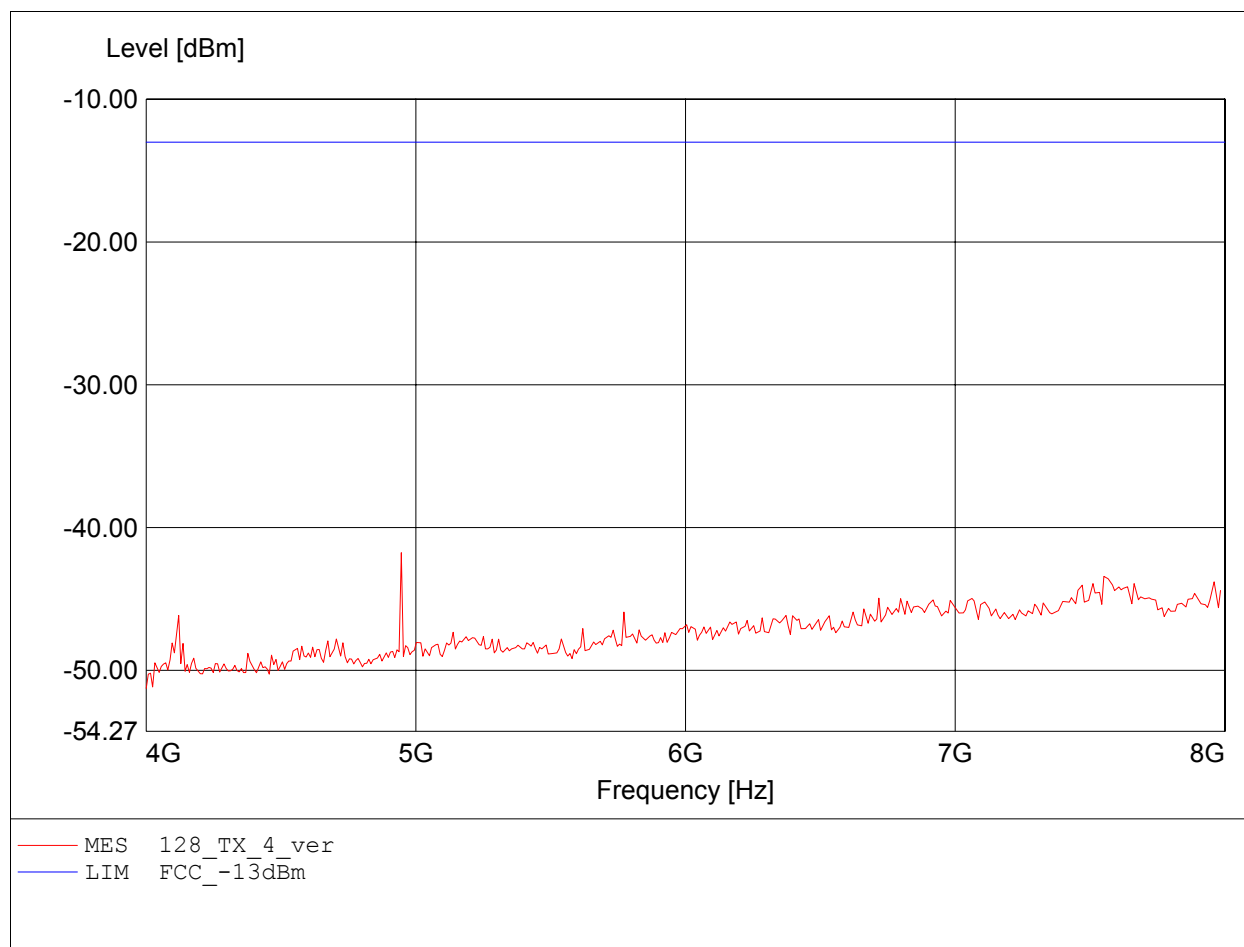
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 128
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 6.814GHz, Pmax: -40.29dBm, RBW: 1MHz



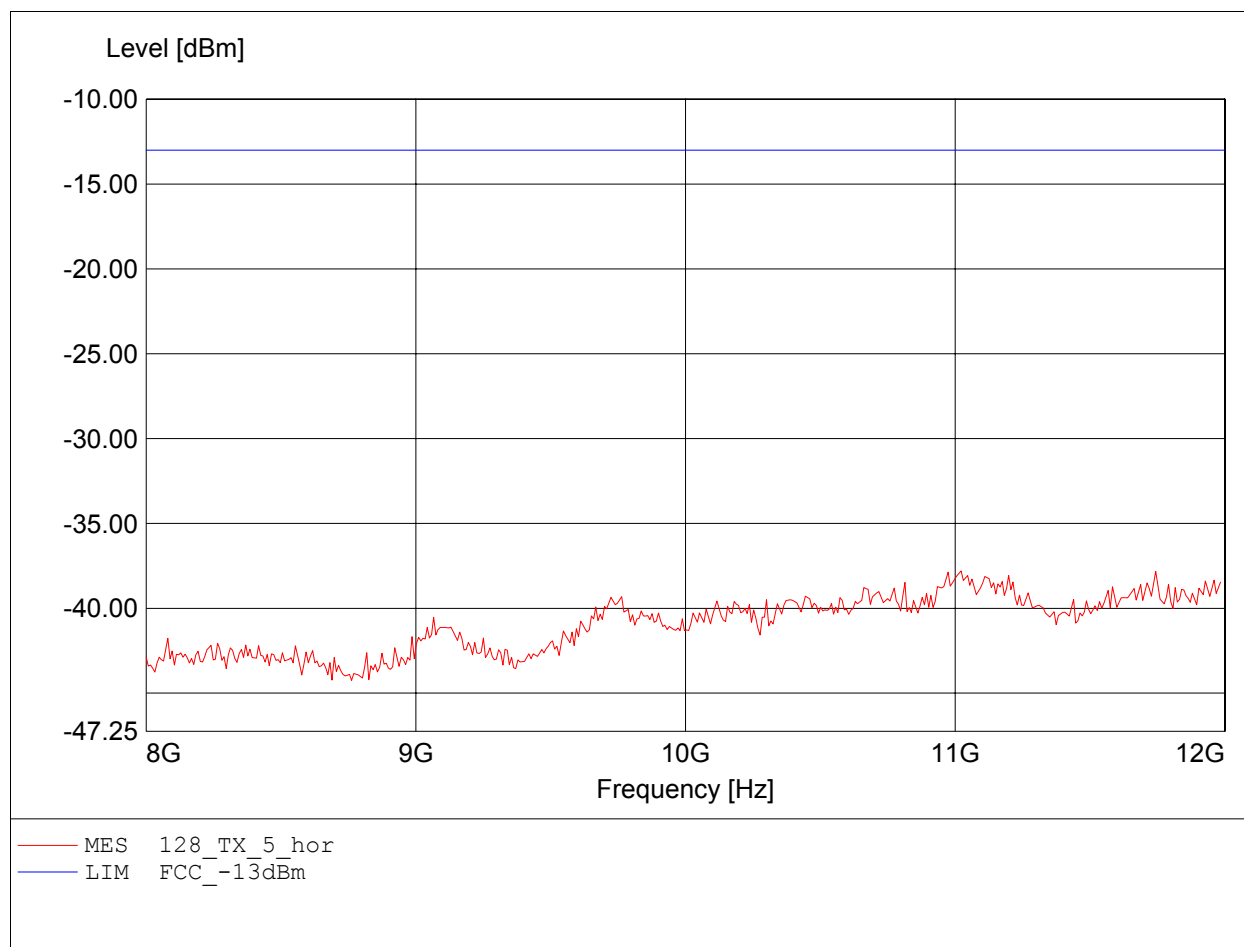
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 128
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 4.946GHz, Pmax: -41.76dBm, RBW: 1MHz



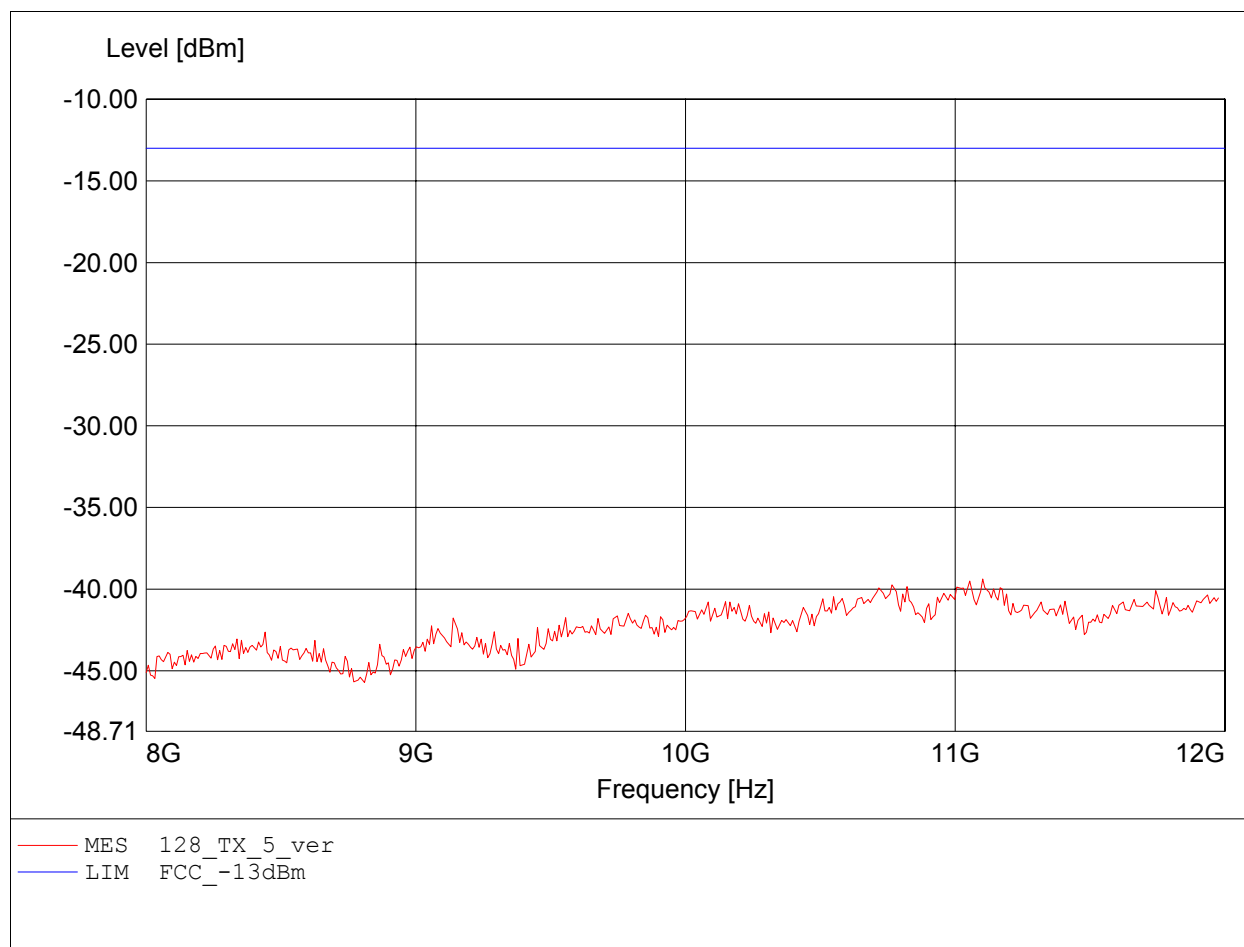
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 128
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 11.022GHz, Pmax: -37.80dBm, RBW: 1MHz



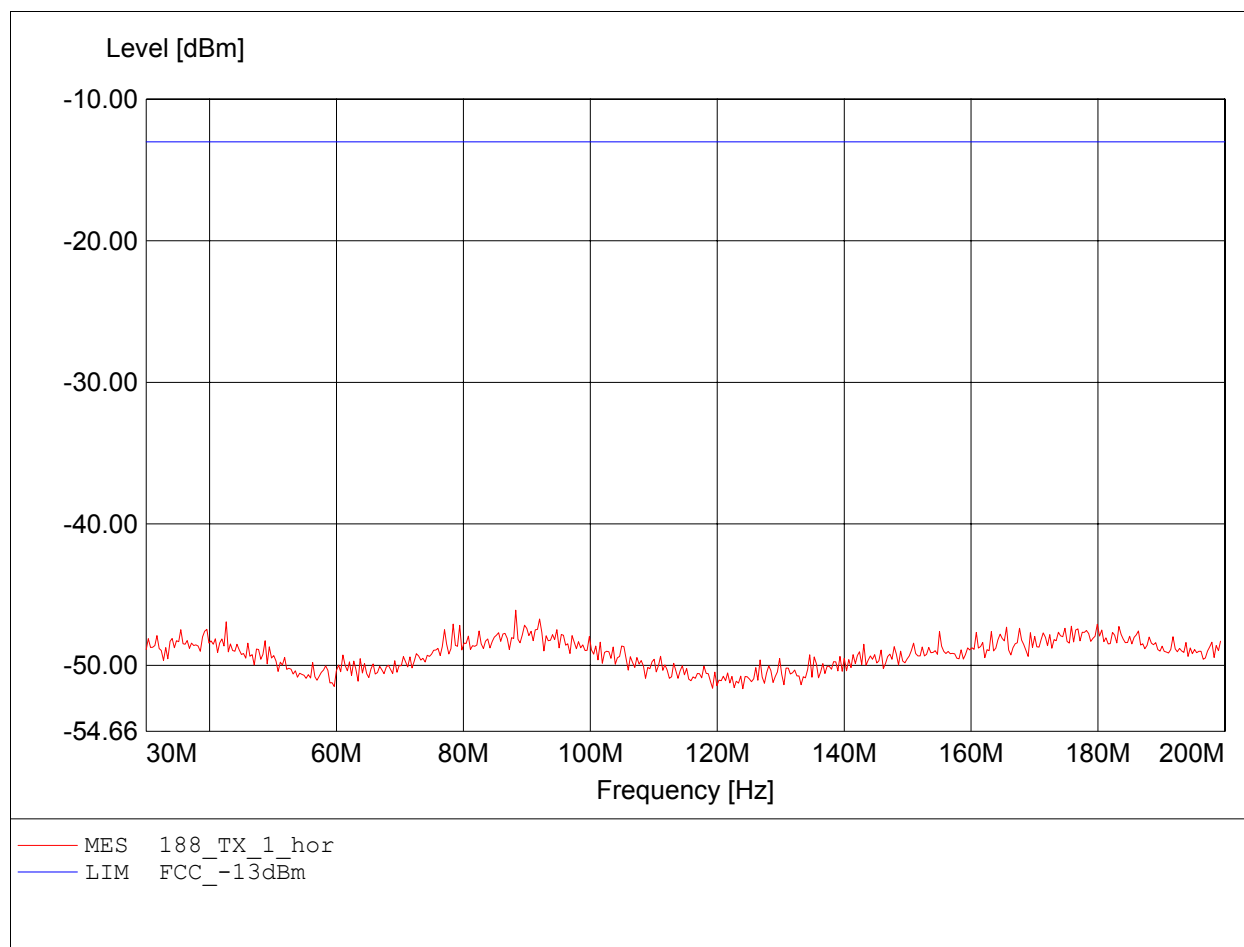
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 128
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 11.102GHz, Pmax: -39.37dBm, RBW: 1MHz



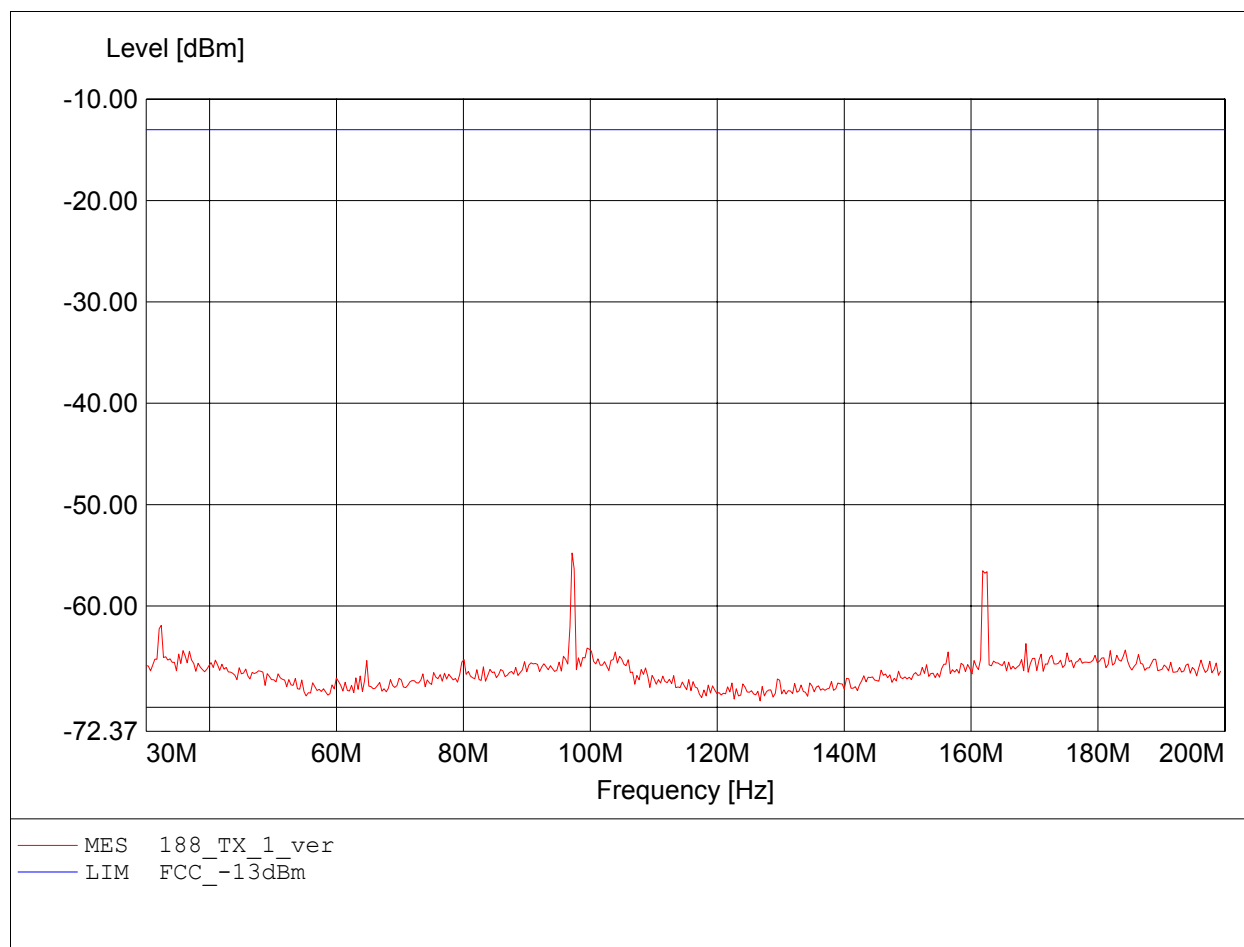
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 188
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 88.257MHz, Pmax: -46.09dBm, RBW: 100kHz



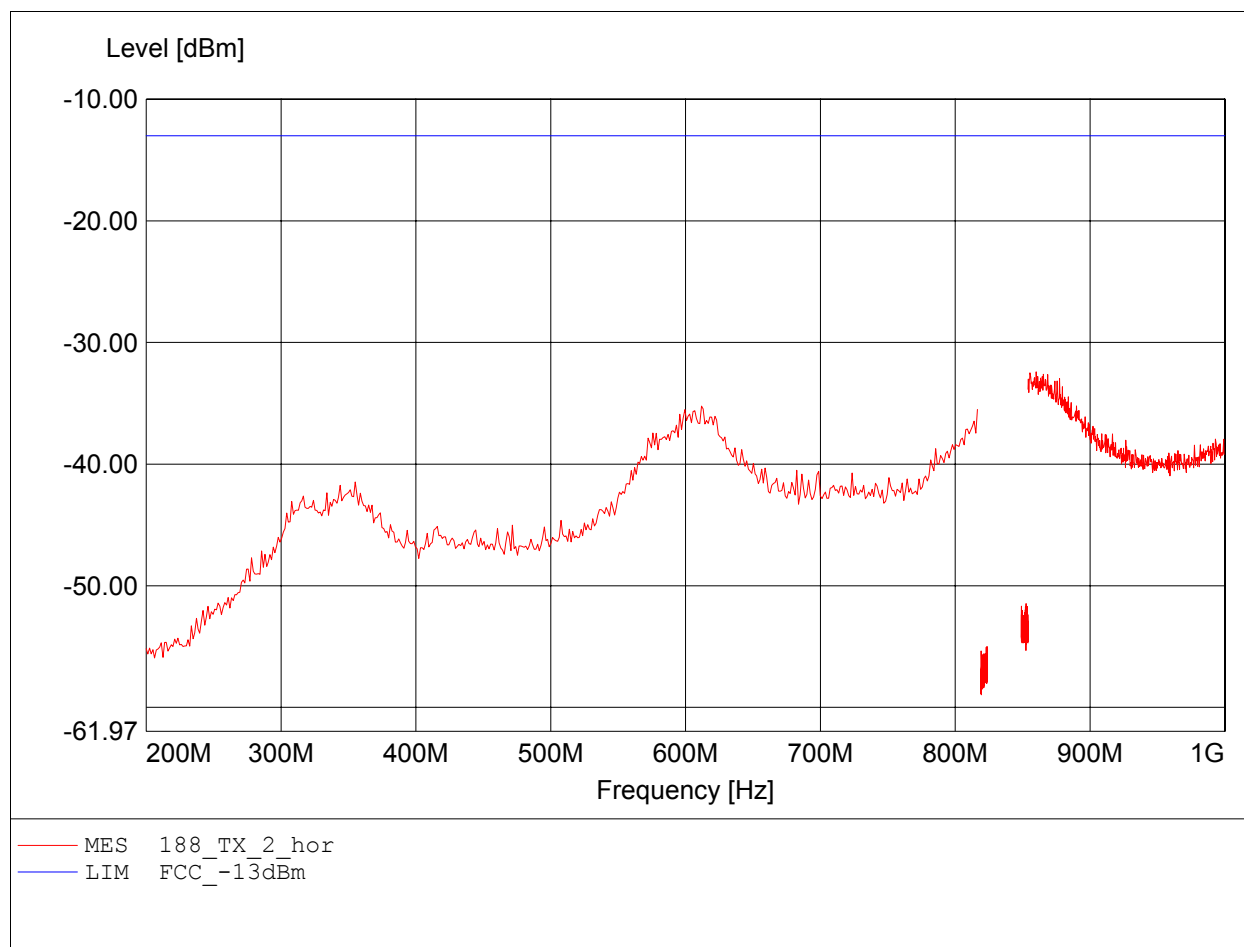
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 188
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 97.114MHz, Pmax: -54.78dBm, RBW: 100kHz



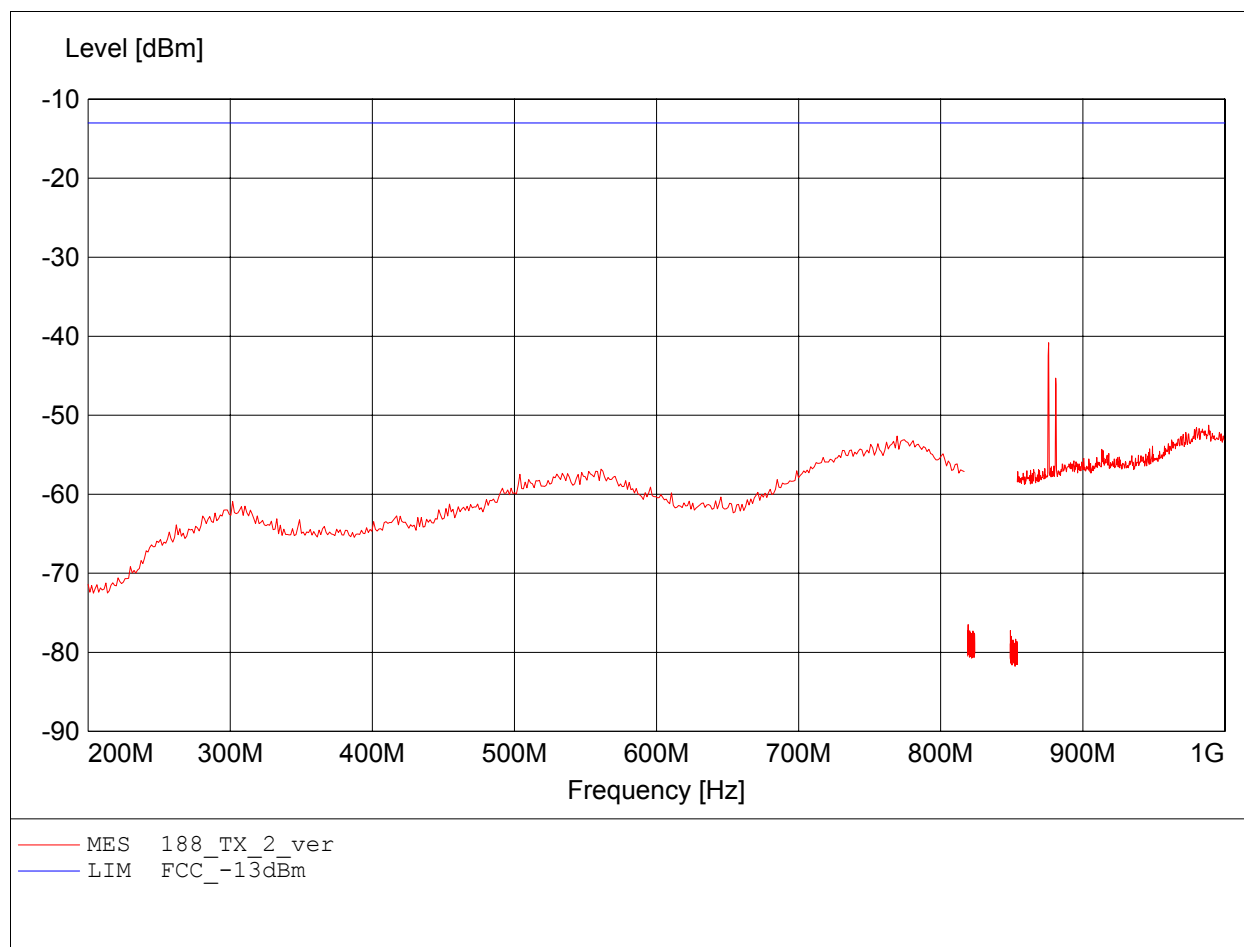
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 188
Comment 1: Dist.: 3m, Ant.: HL 223+notch
Comment 2: Freq: 860.144MHz, Pmax: -32.41dBm, RBW: 100kHz



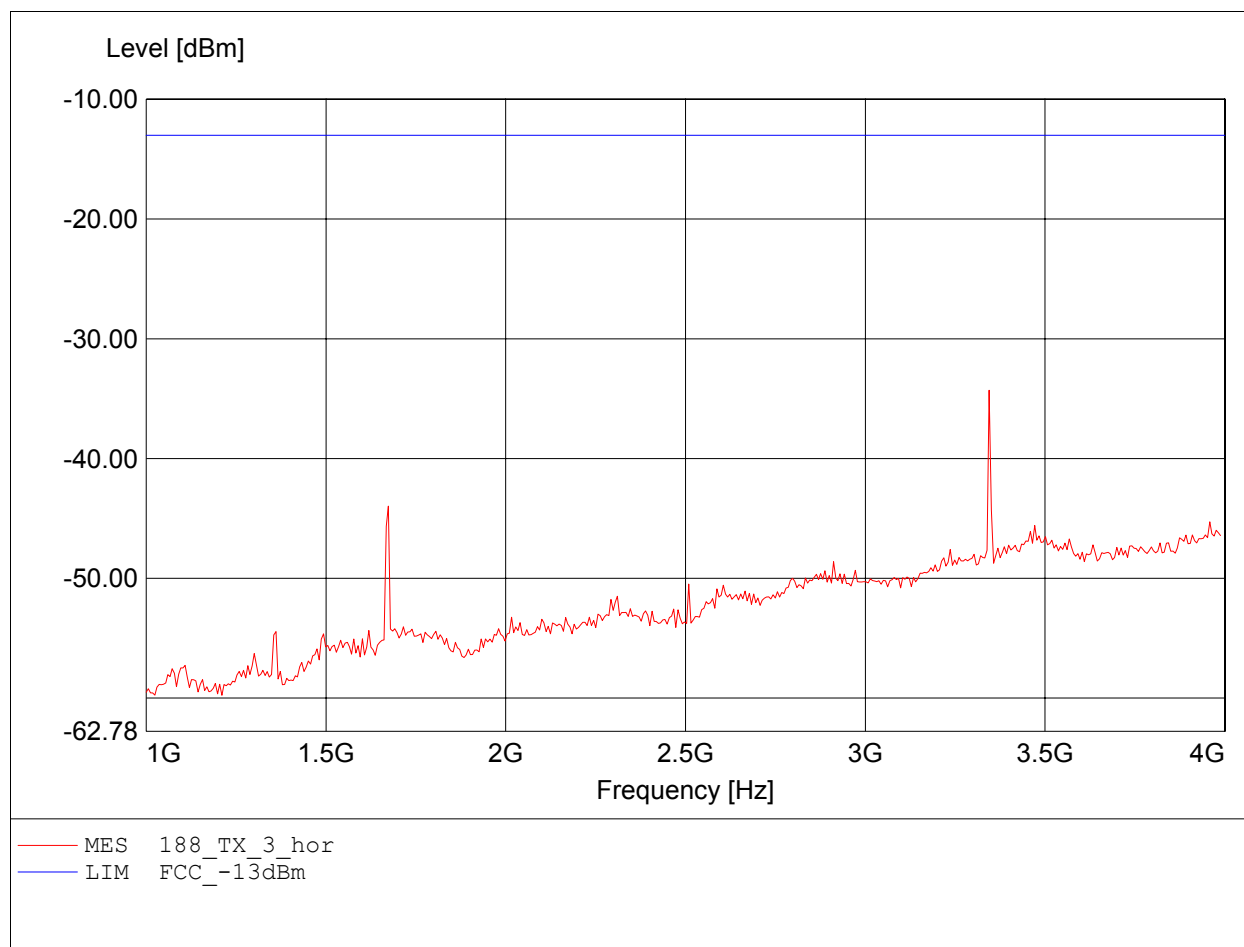
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 188
Comment 1: Dist.: 3m, Ant.: HL 223+notch
Comment 2: Freq: 875.944MHz, Pmax: -40.82dBm, RBW: 100kHz



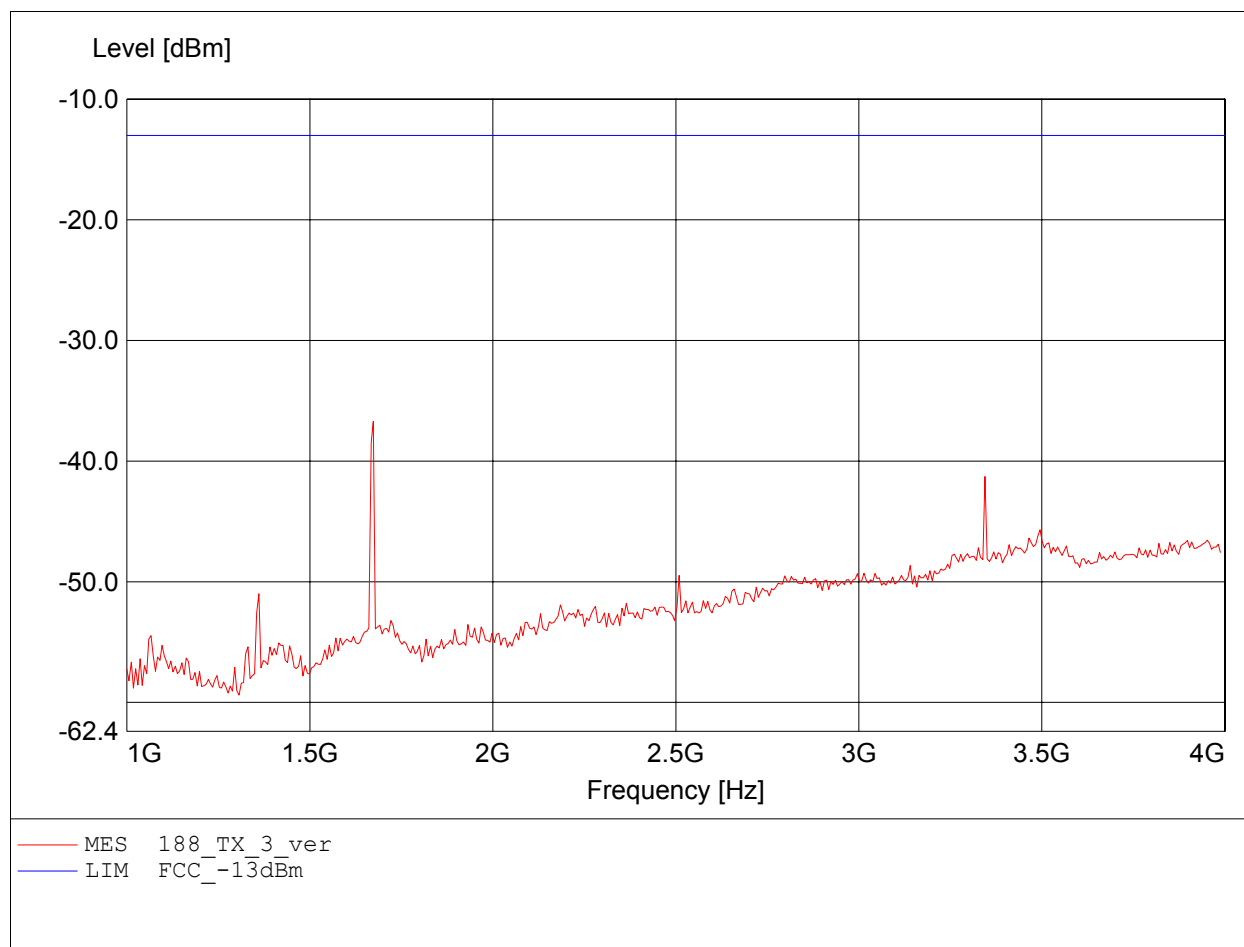
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 188
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 3.345GHz, Pmax: -34.30dBm, RBW: 1MHz



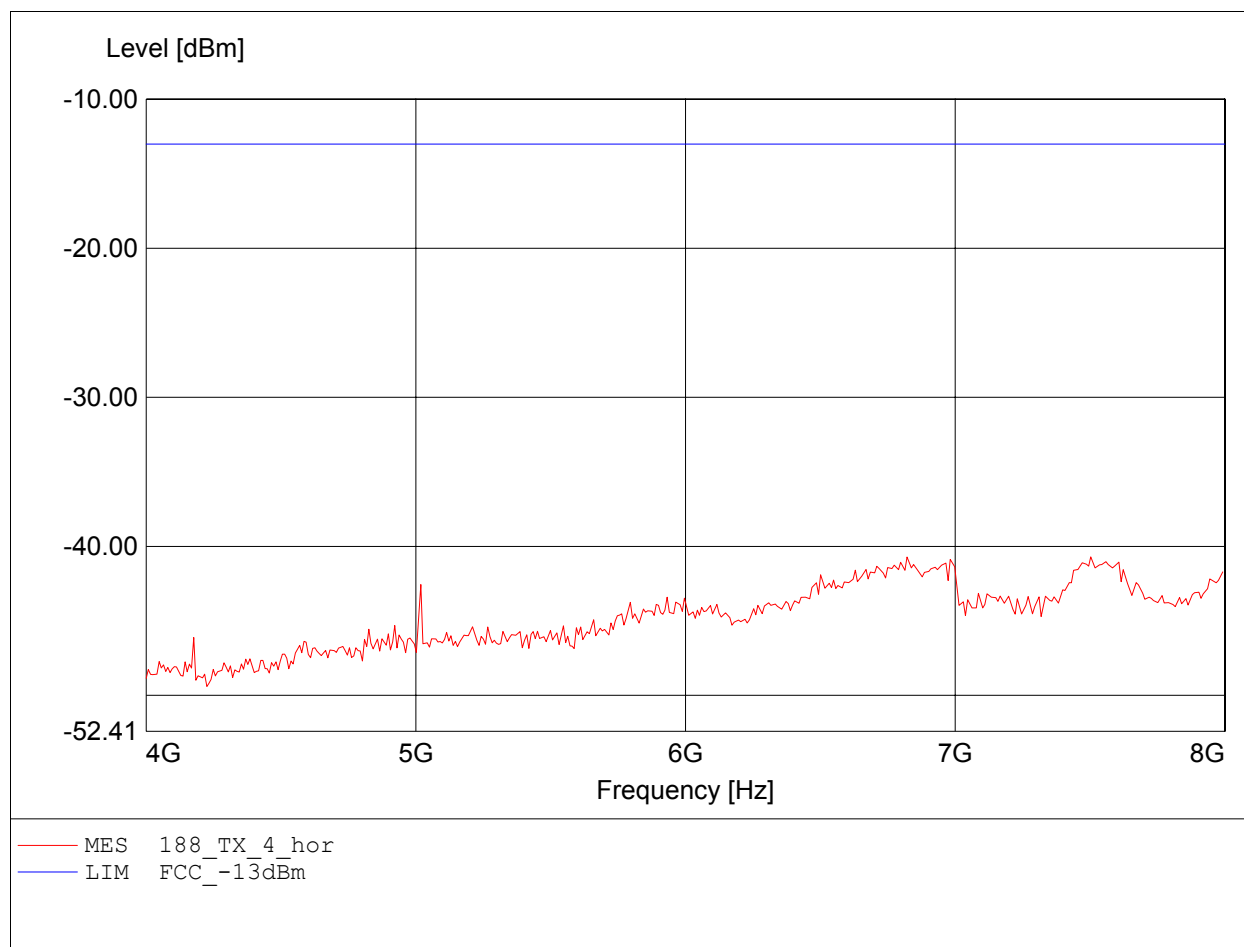
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 188
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 1.673GHz, Pmax: -36.70dBm, RBW: 1MHz



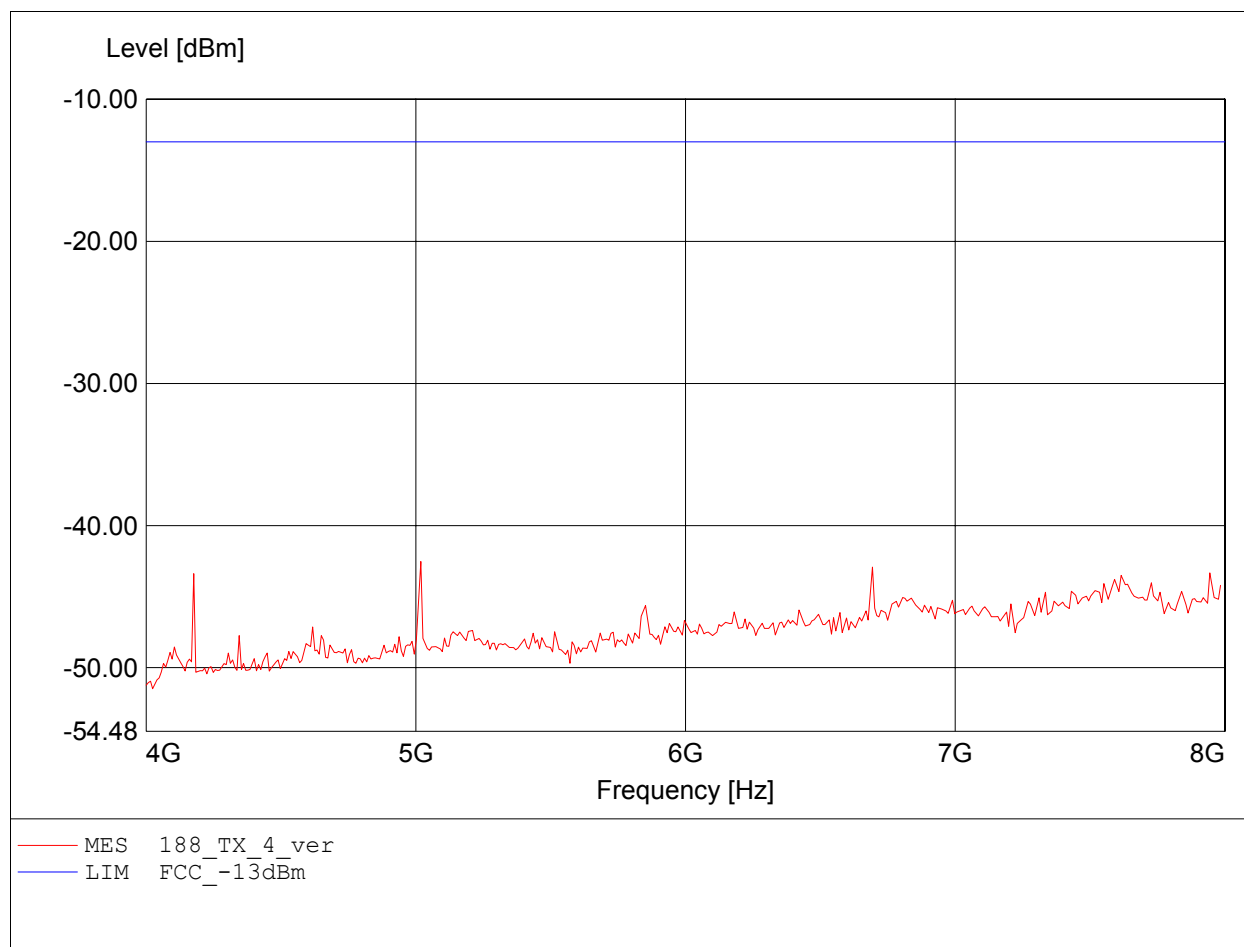
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 188
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 7.503GHz, Pmax: -40.70dBm, RBW: 1MHz



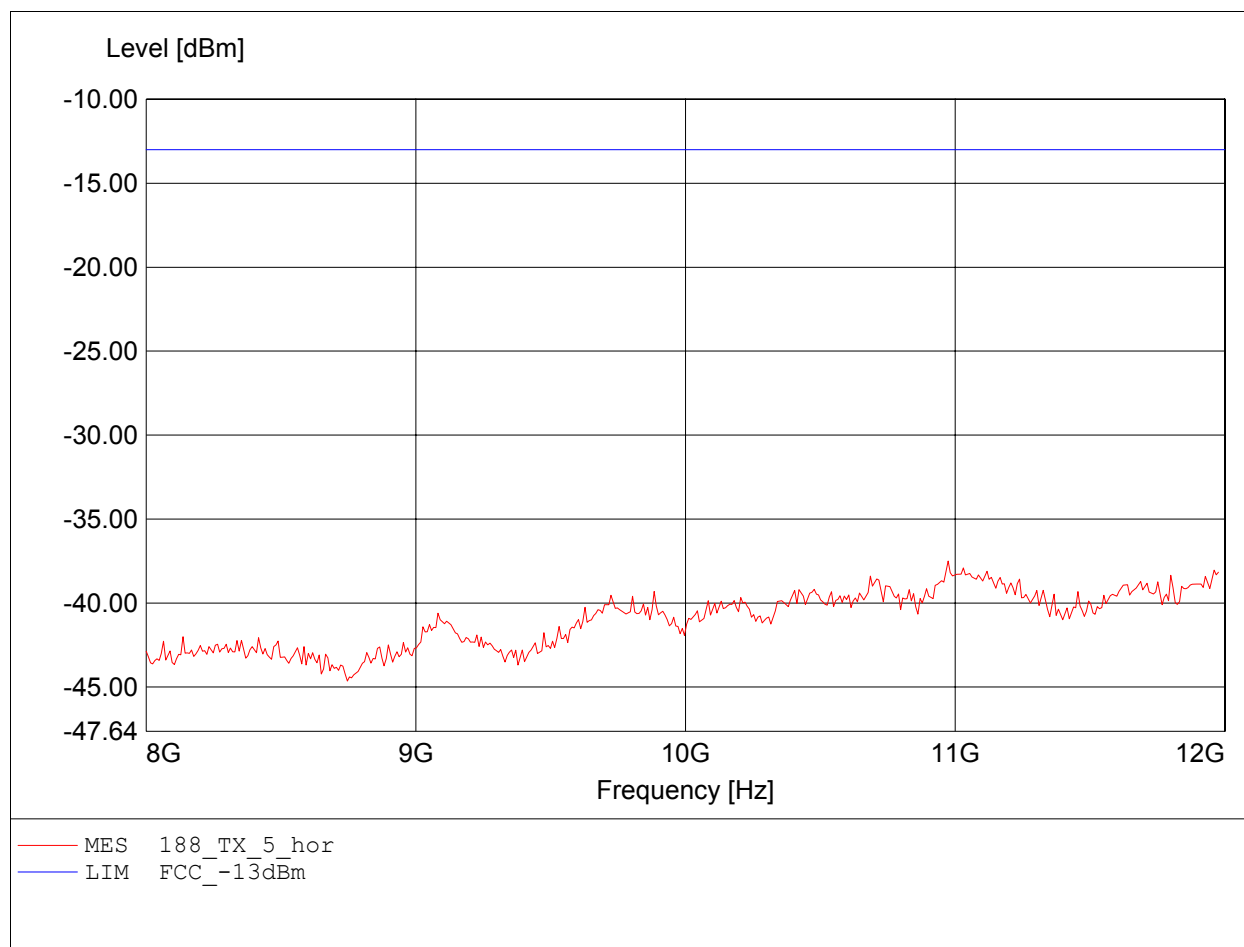
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 188
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 5.018GHz, Pmax: -42.53dBm, RBW: 1MHz



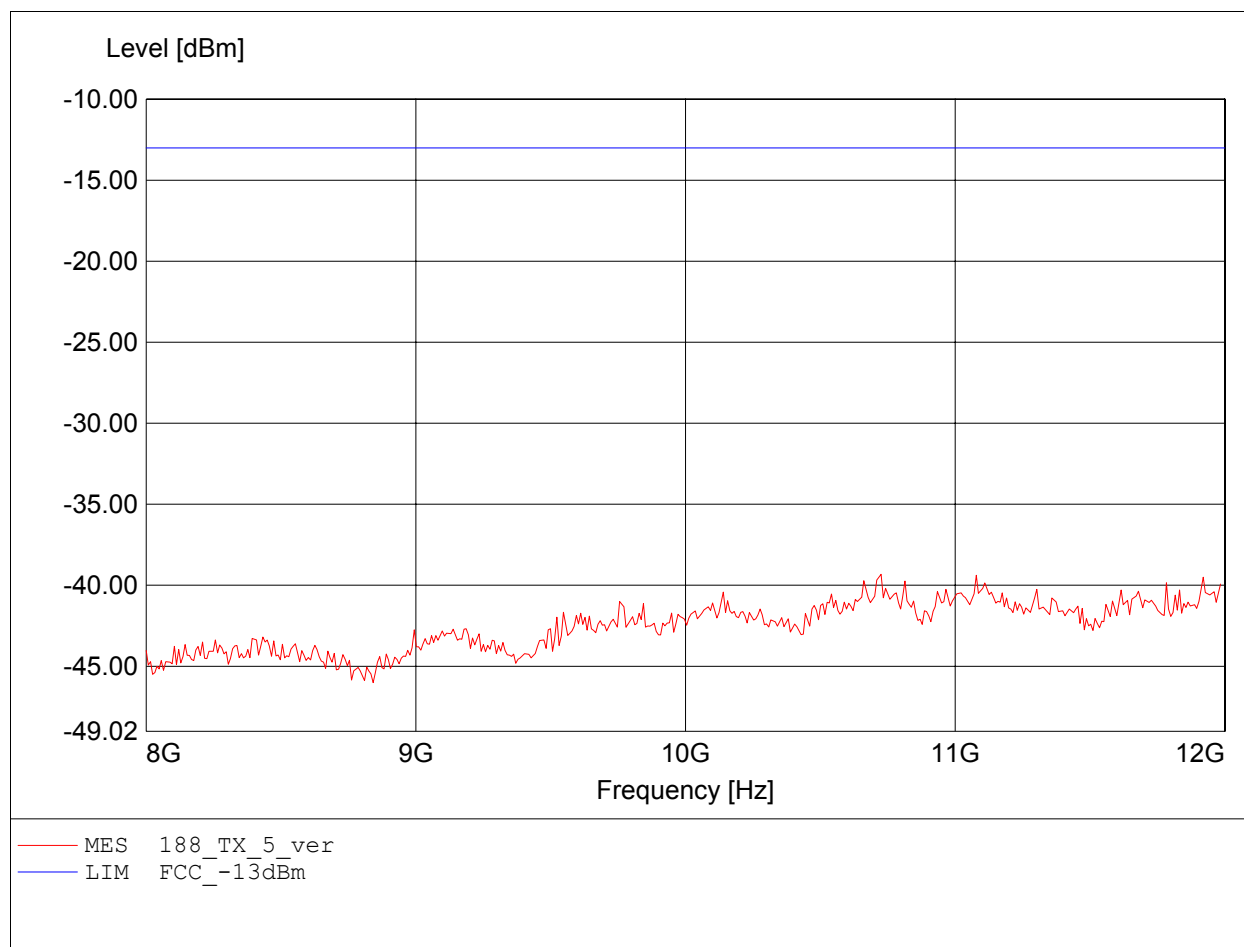
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 188
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 10.974GHz, Pmax: -37.49dBm, RBW: 1MHz



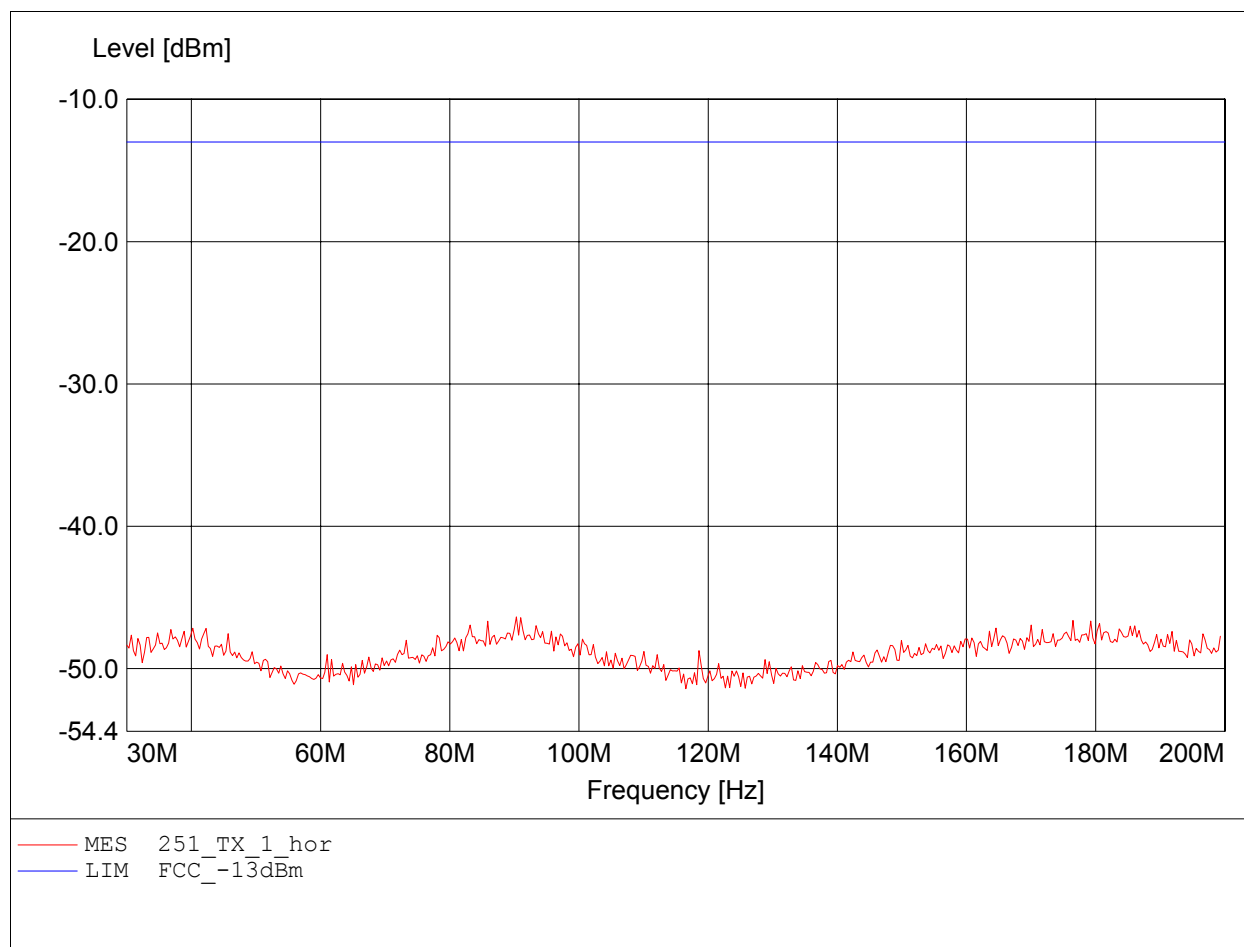
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 188
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 10.725GHz, Pmax: -39.33dBm, RBW: 1MHz



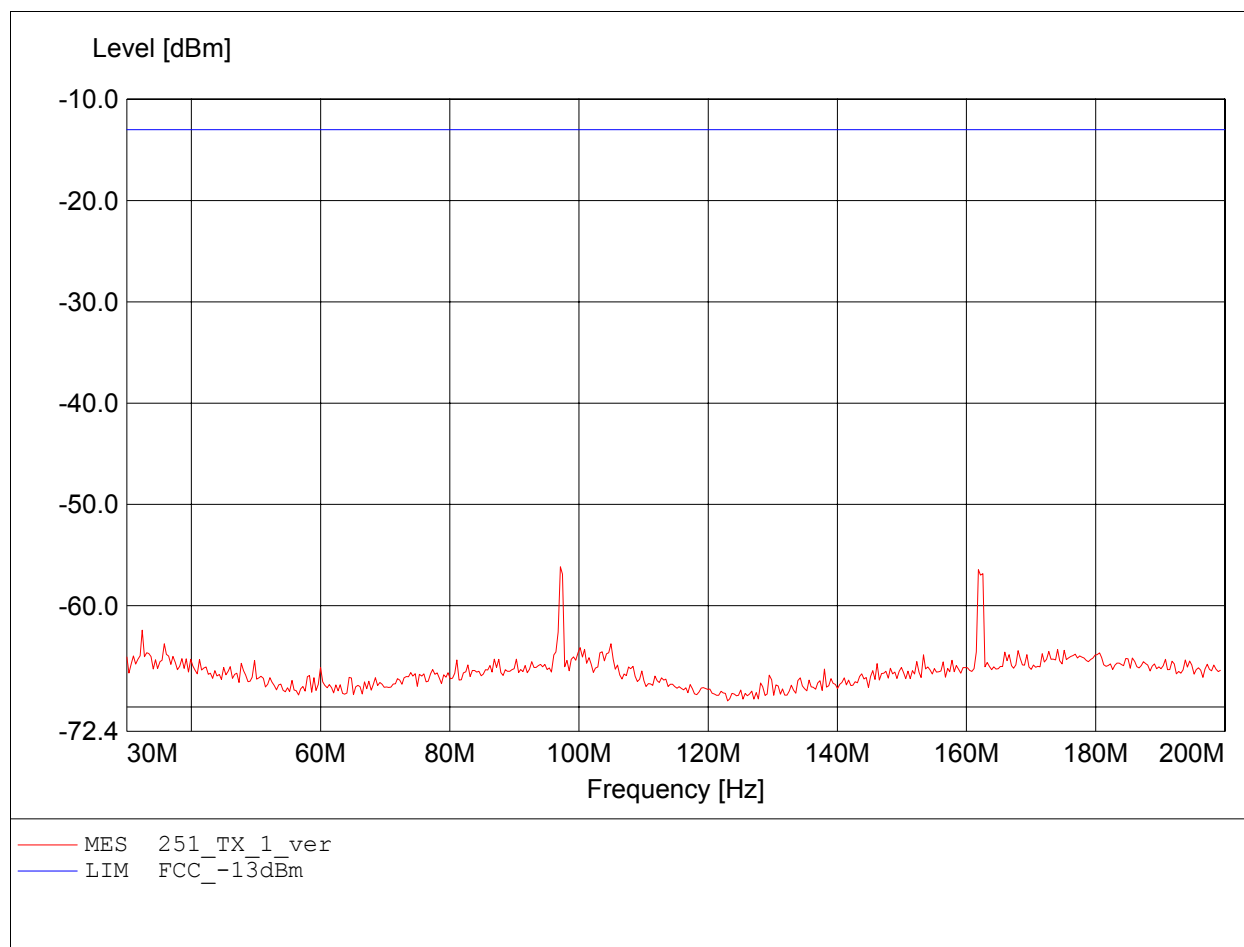
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 251
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 90.301MHz, Pmax: -46.36dBm, RBW: 100kHz



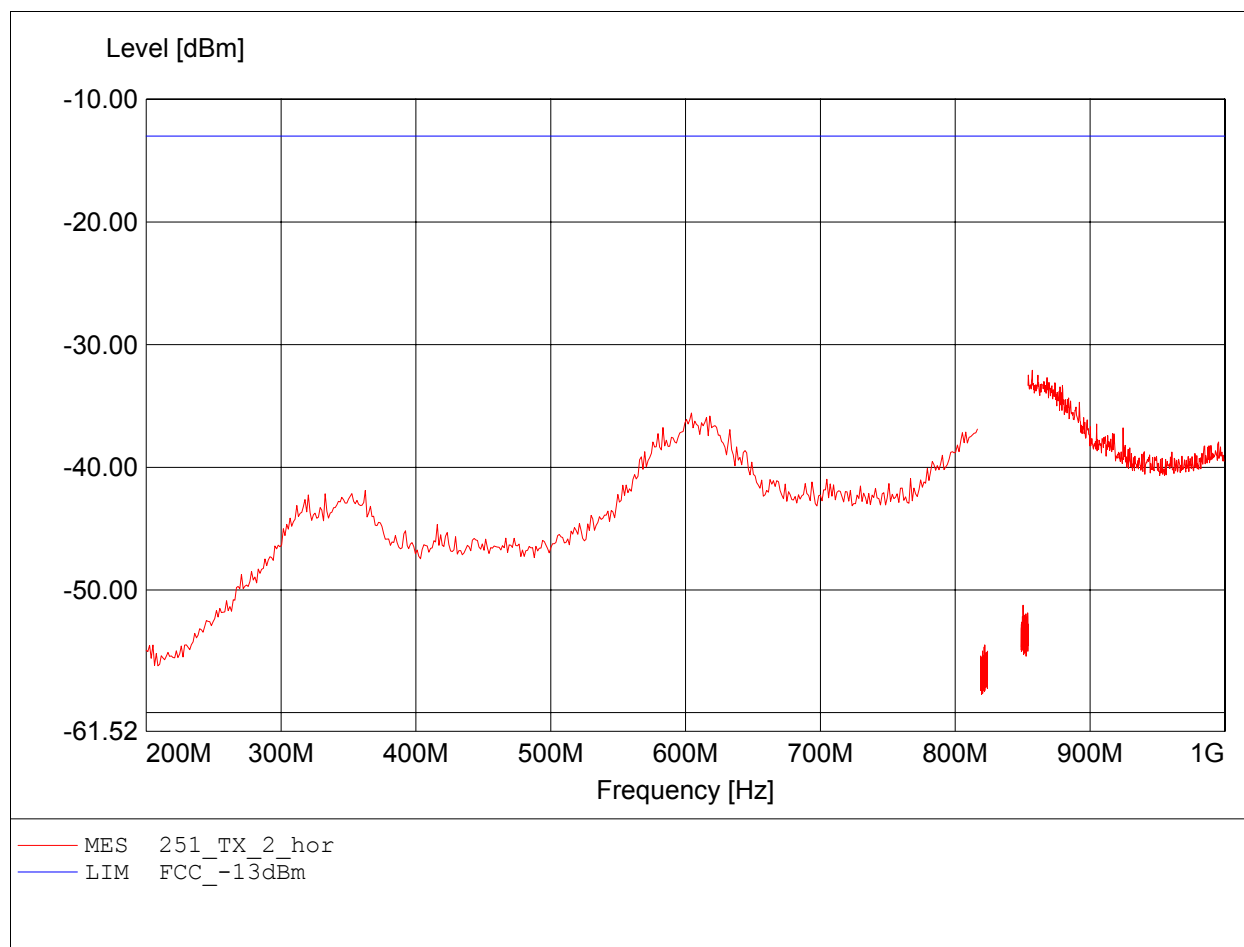
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 251
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 97.114MHz, Pmax: -56.15dBm, RBW: 100kHz



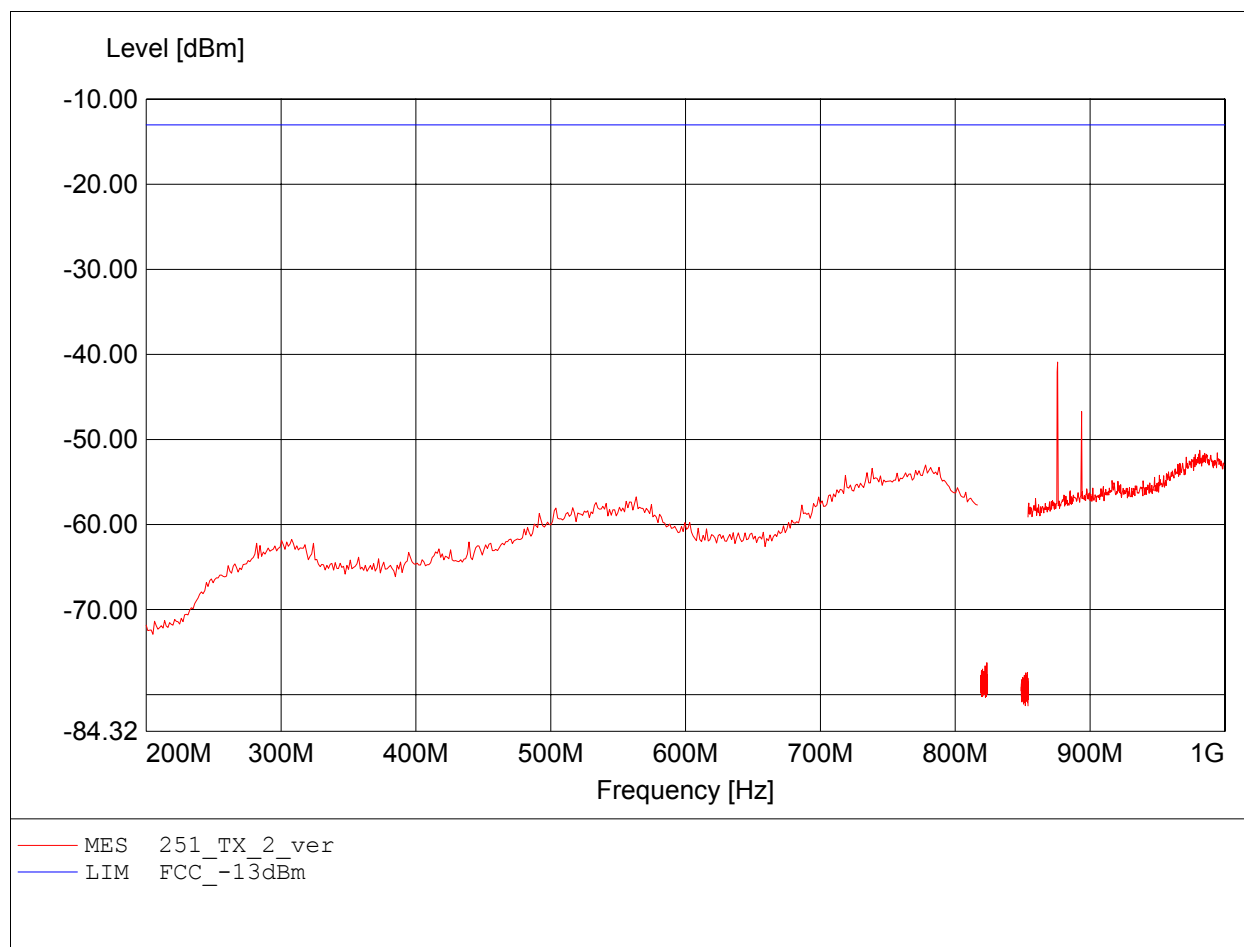
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 251
Comment 1: Dist.: 3m, Ant.: HL 223+notch
Comment 2: Freq: 857.218MHz, Pmax: -32.08dBm, RBW: 100kHz



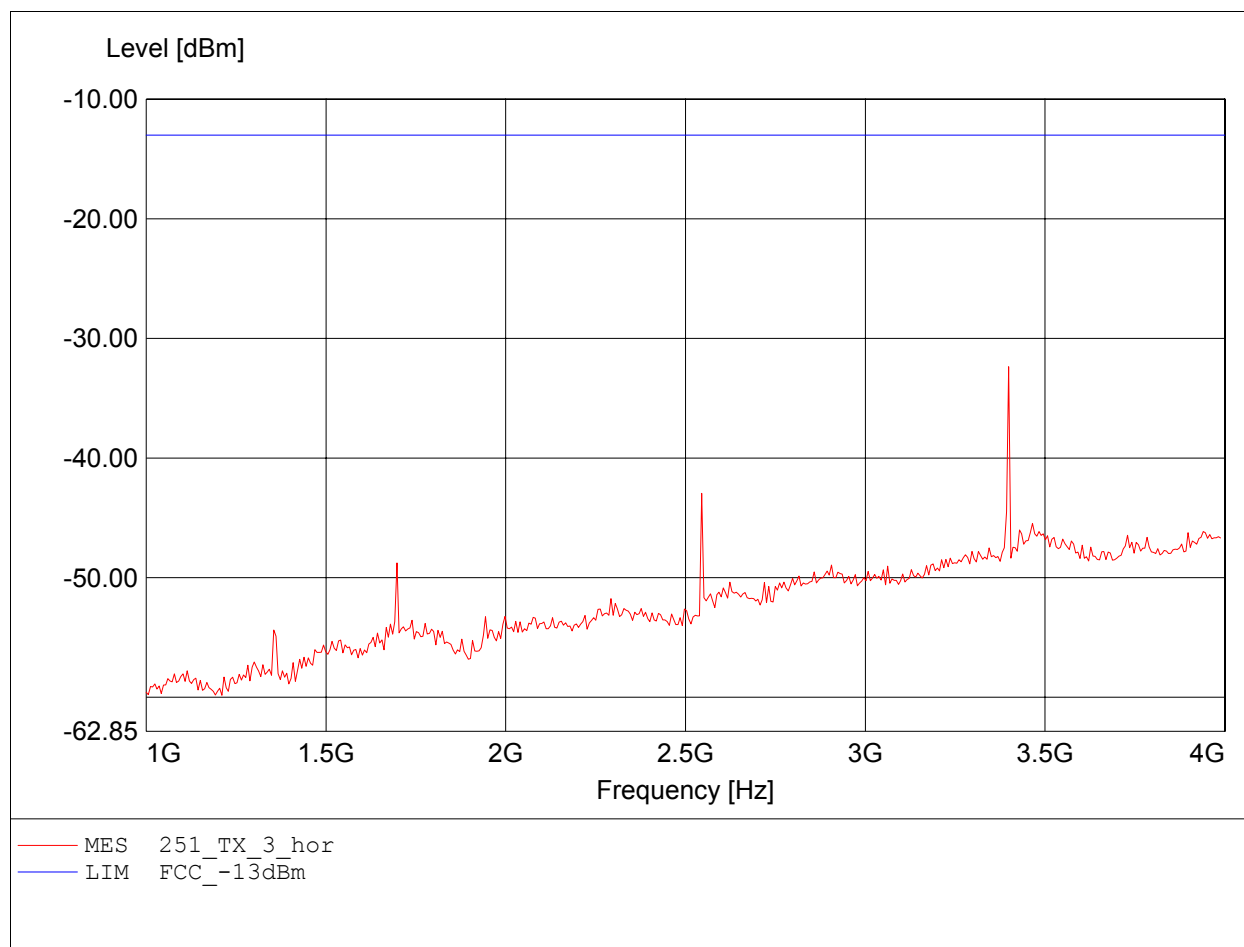
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 251
Comment 1: Dist.: 3m, Ant.: HL 223+notch
Comment 2: Freq: 875.944MHz, Pmax: -40.90dBm, RBW: 100kHz



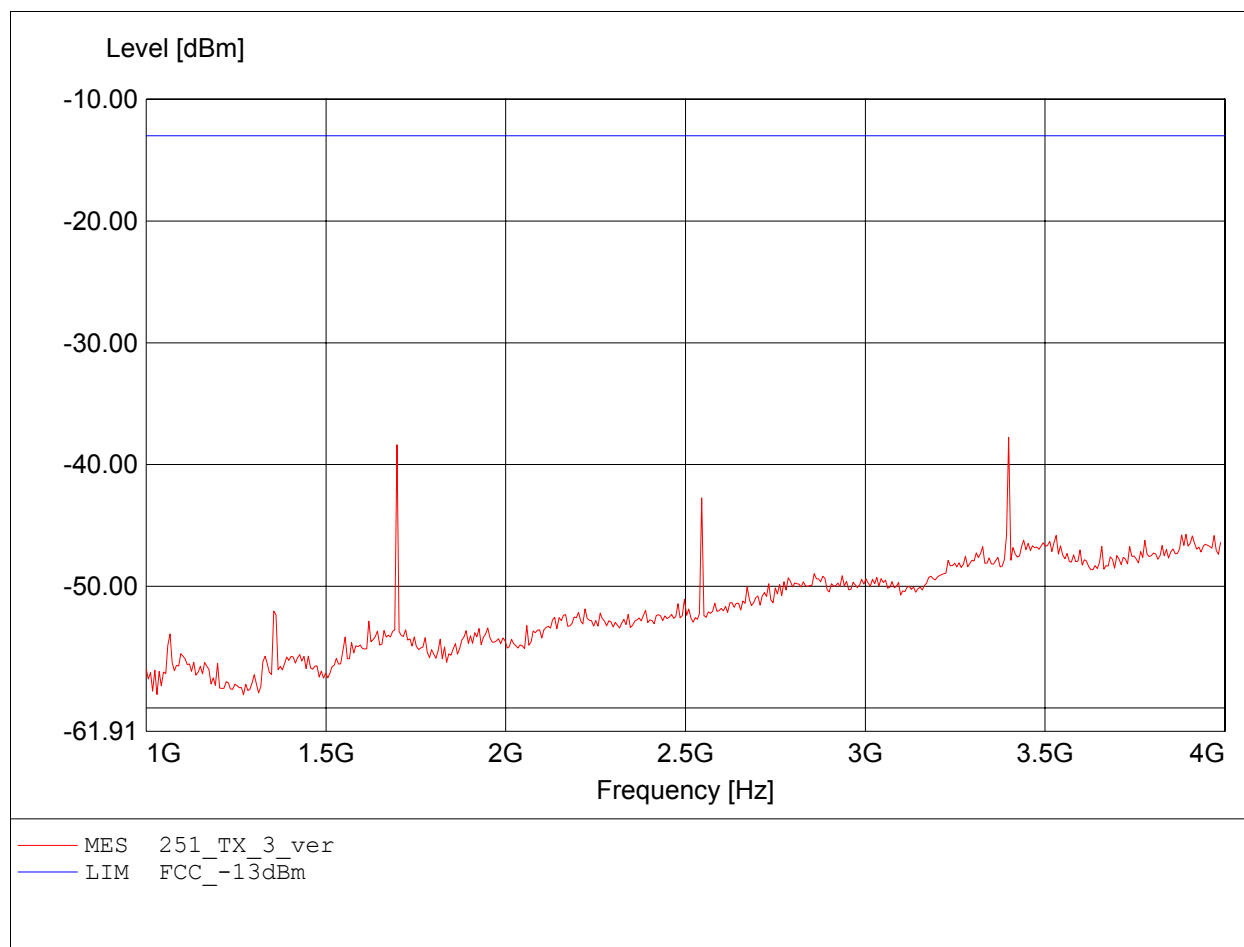
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 251
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 3.399GHz, Pmax: -32.37dBm, RBW: 1MHz



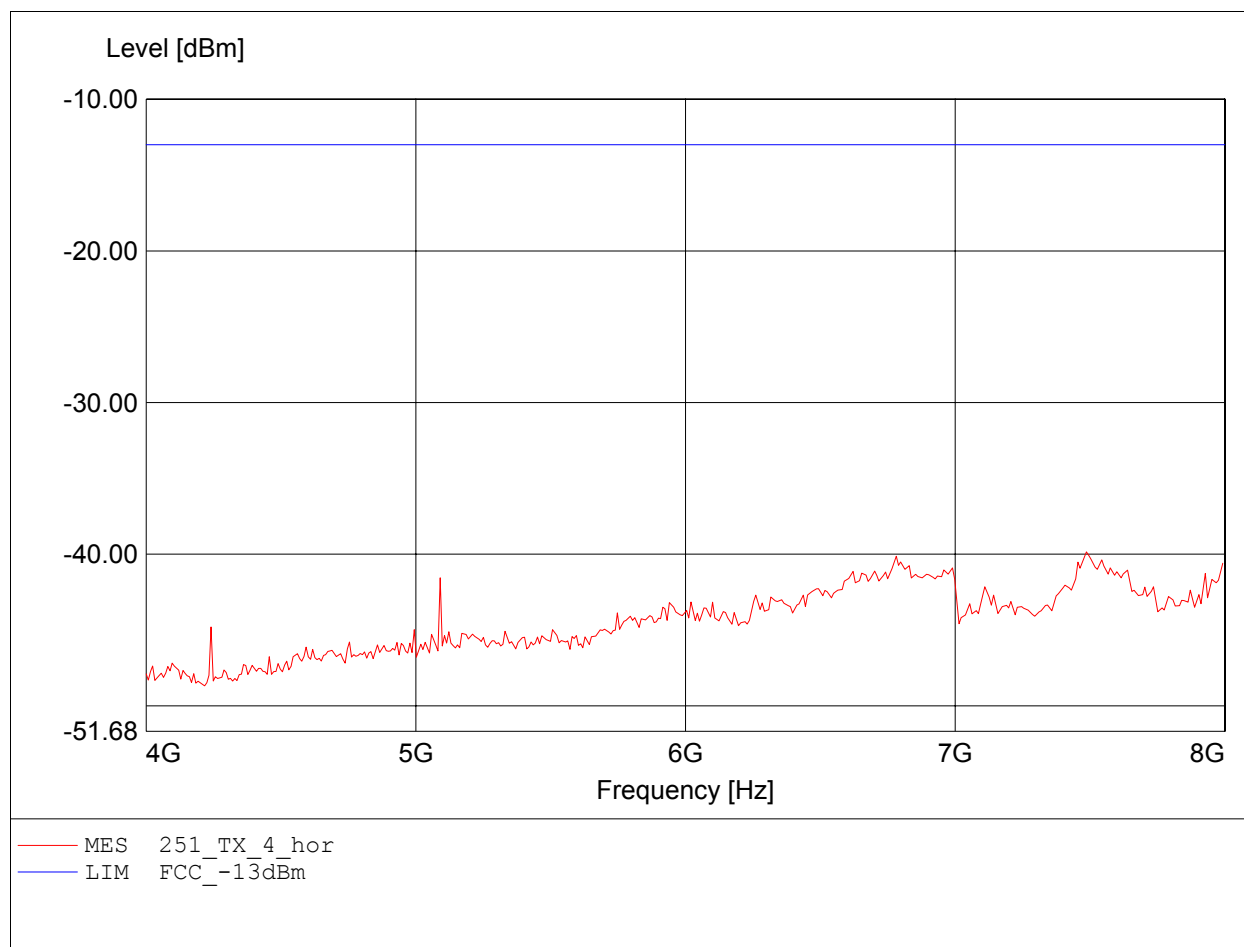
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 251
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 3.399GHz, Pmax: -37.76dBm, RBW: 1MHz



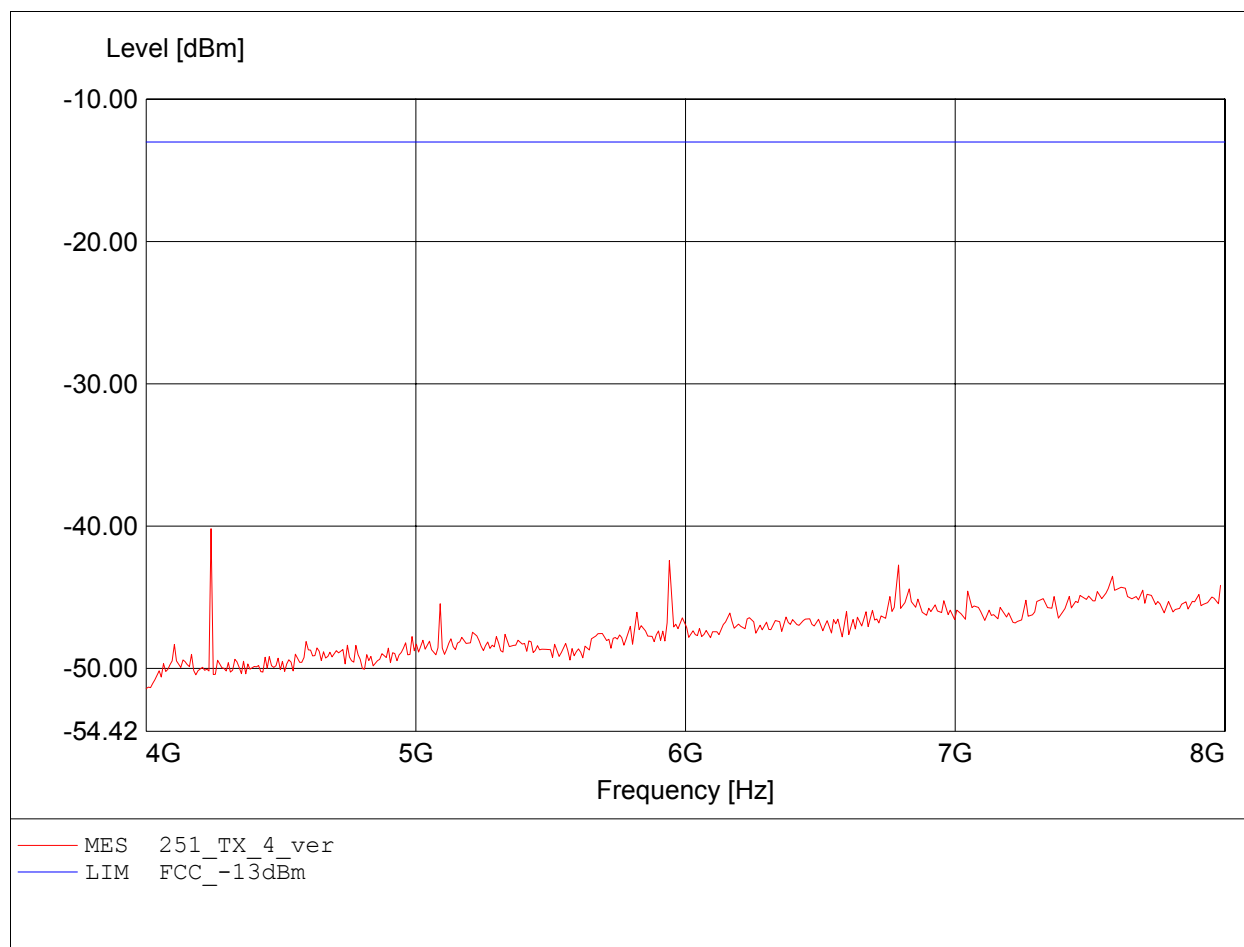
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 251
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 7.487GHz, Pmax: -39.85dBm, RBW: 1MHz



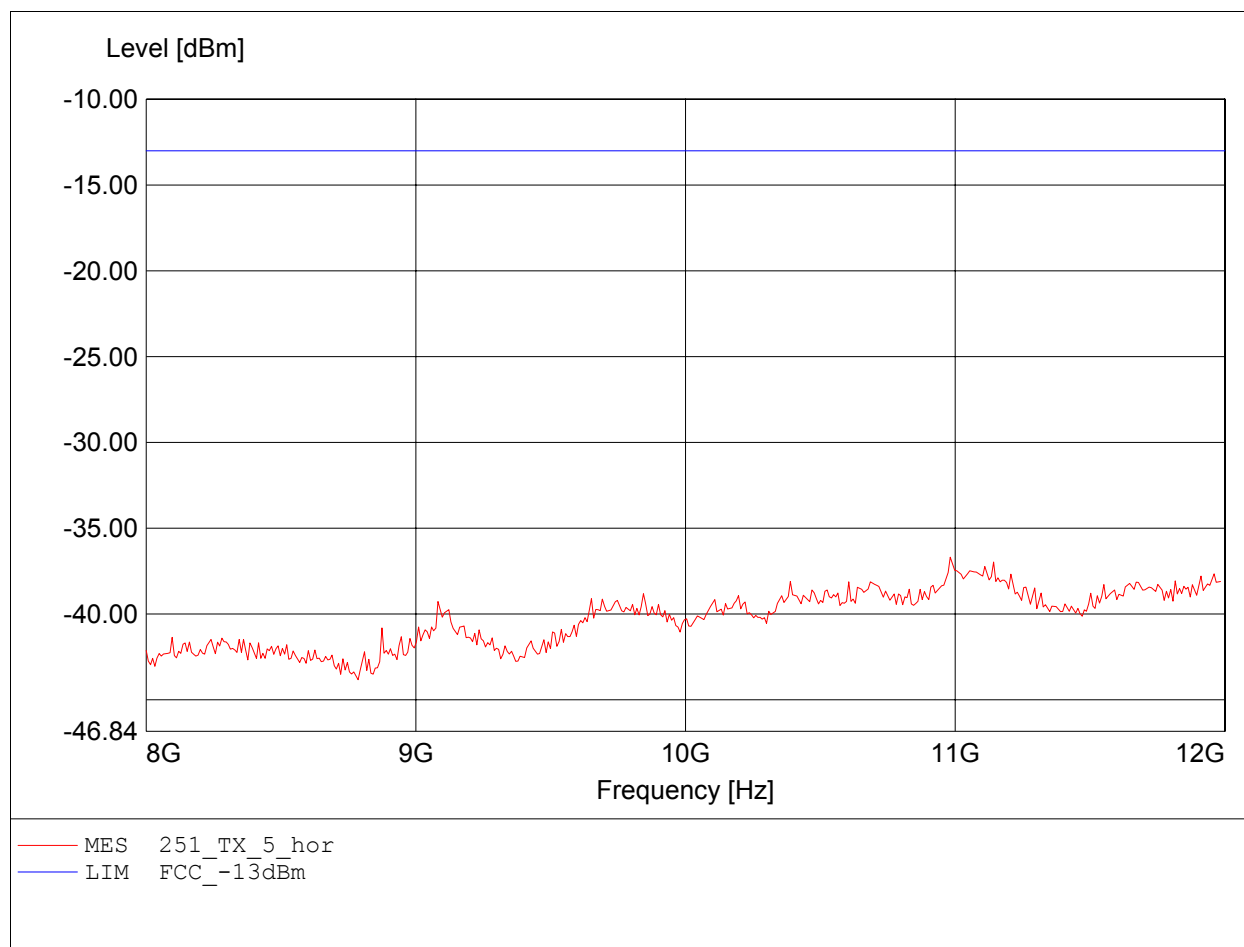
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 251
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 4.240GHz, Pmax: -40.18dBm, RBW: 1MHz



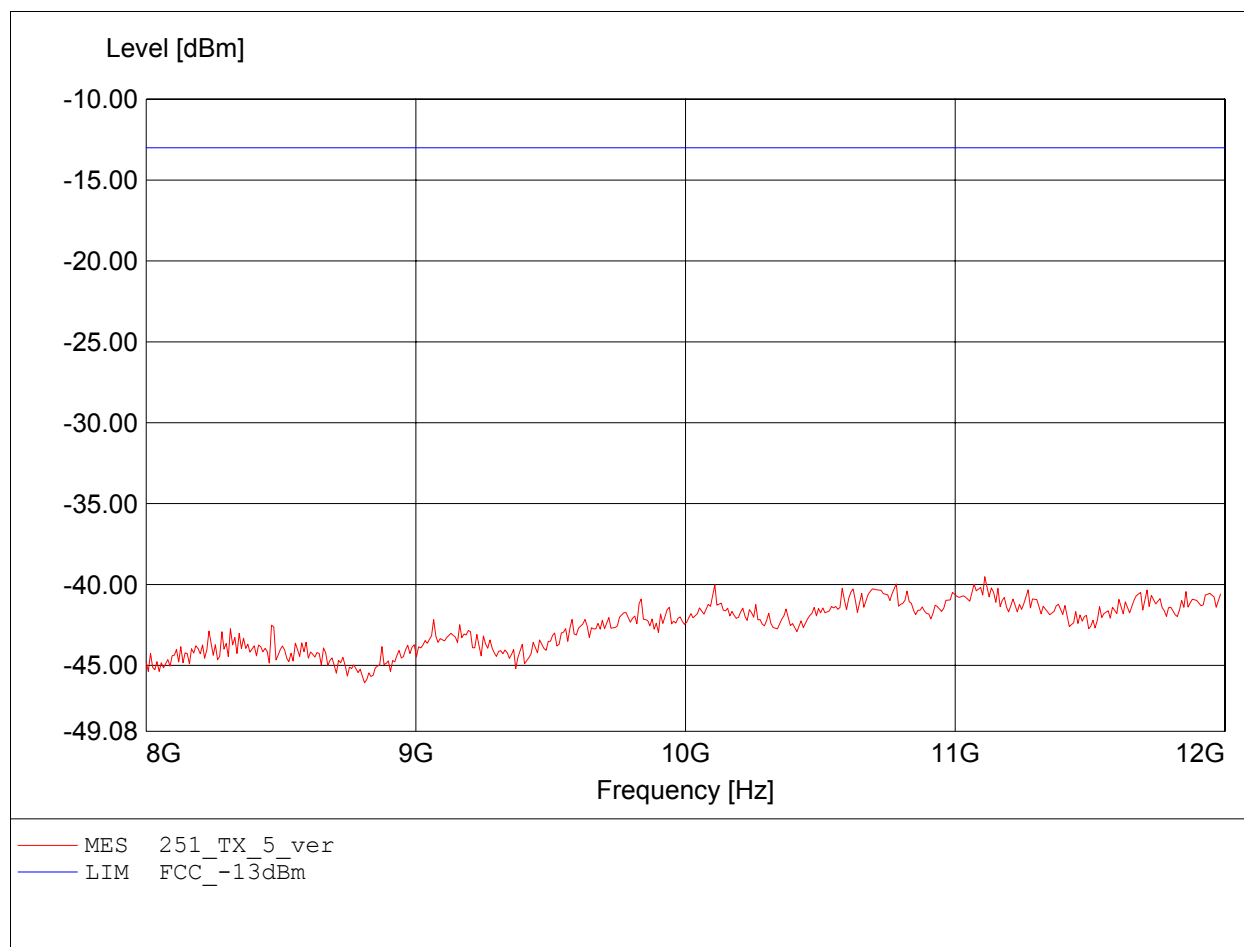
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 251
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 10.982GHz, Pmax: -36.69dBm, RBW: 1MHz



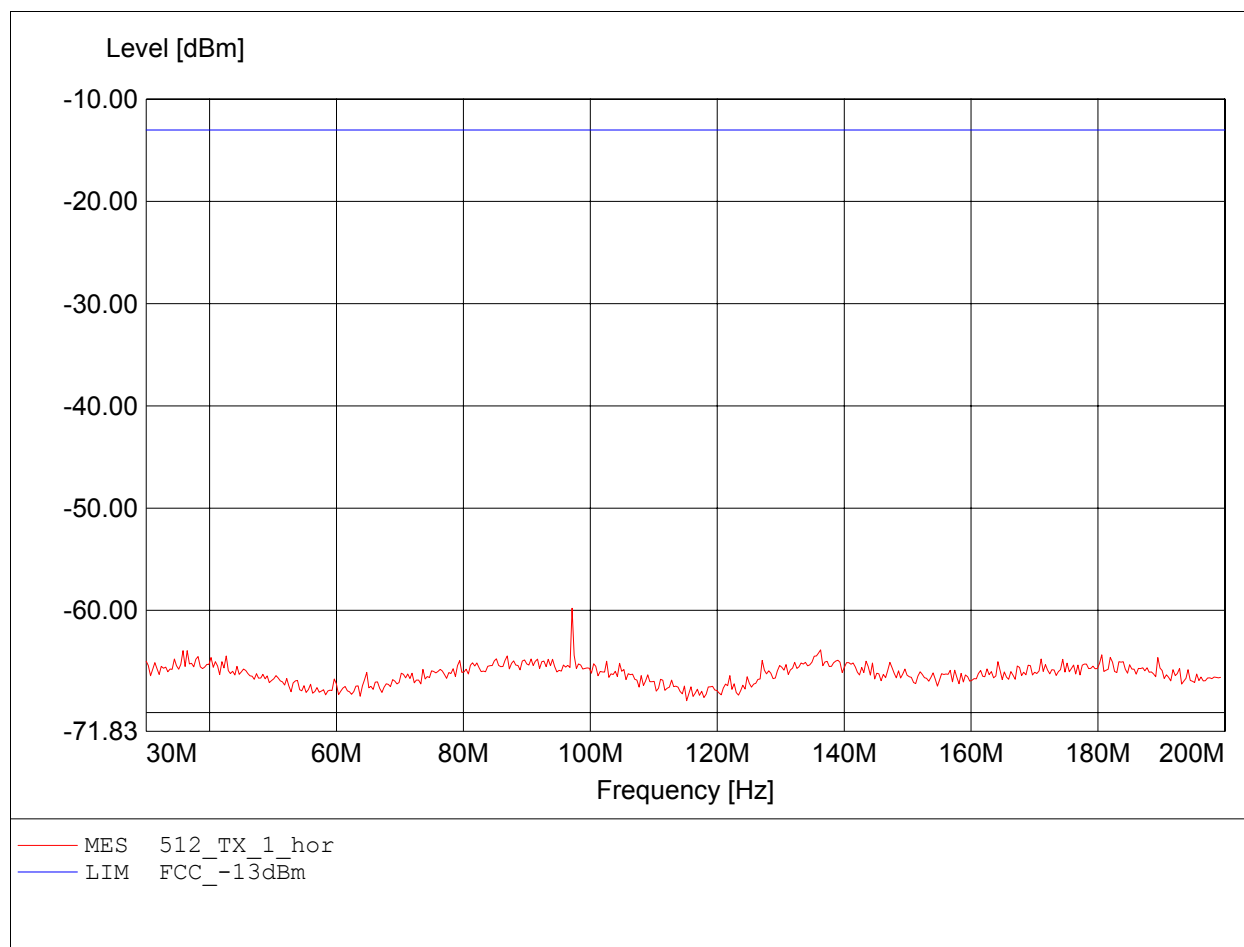
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 251
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 11.110GHz, Pmax: -39.52dBm, RBW: 1MHz



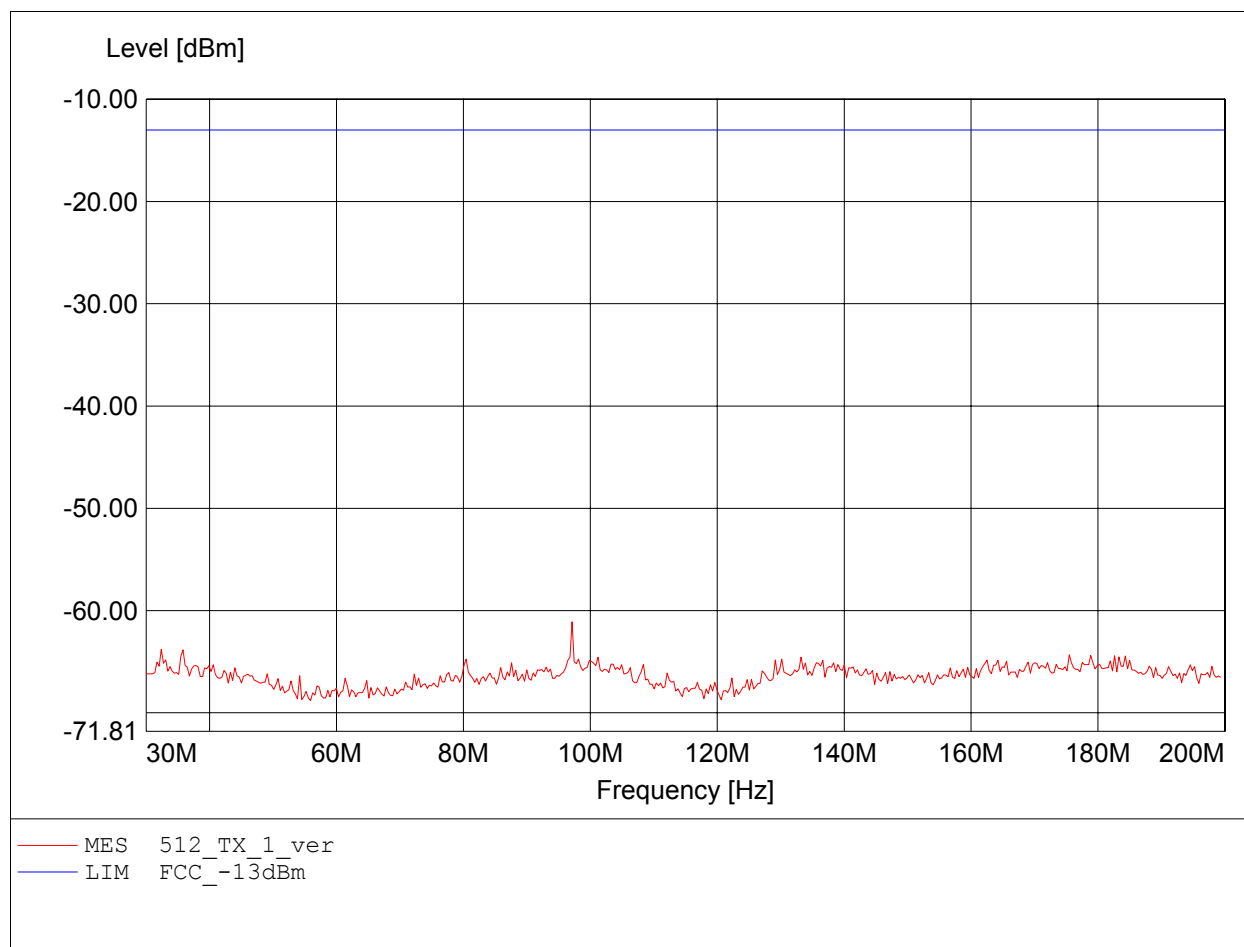
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 512
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 97.114MHz, Pmax: -59.79dBm, RBW: 100kHz



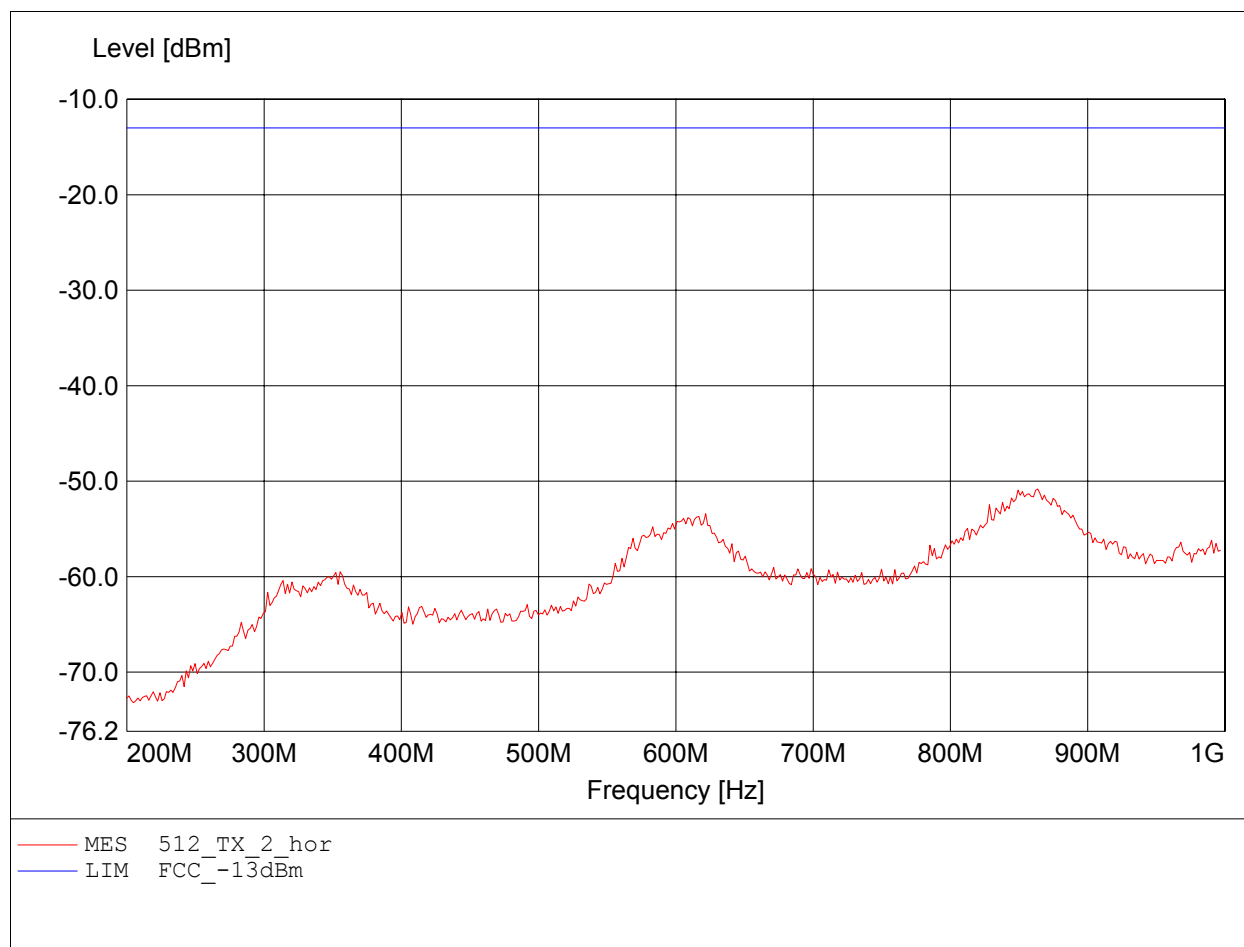
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 512
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 97.114MHz, Pmax: -61.11dBm, RBW: 100kHz



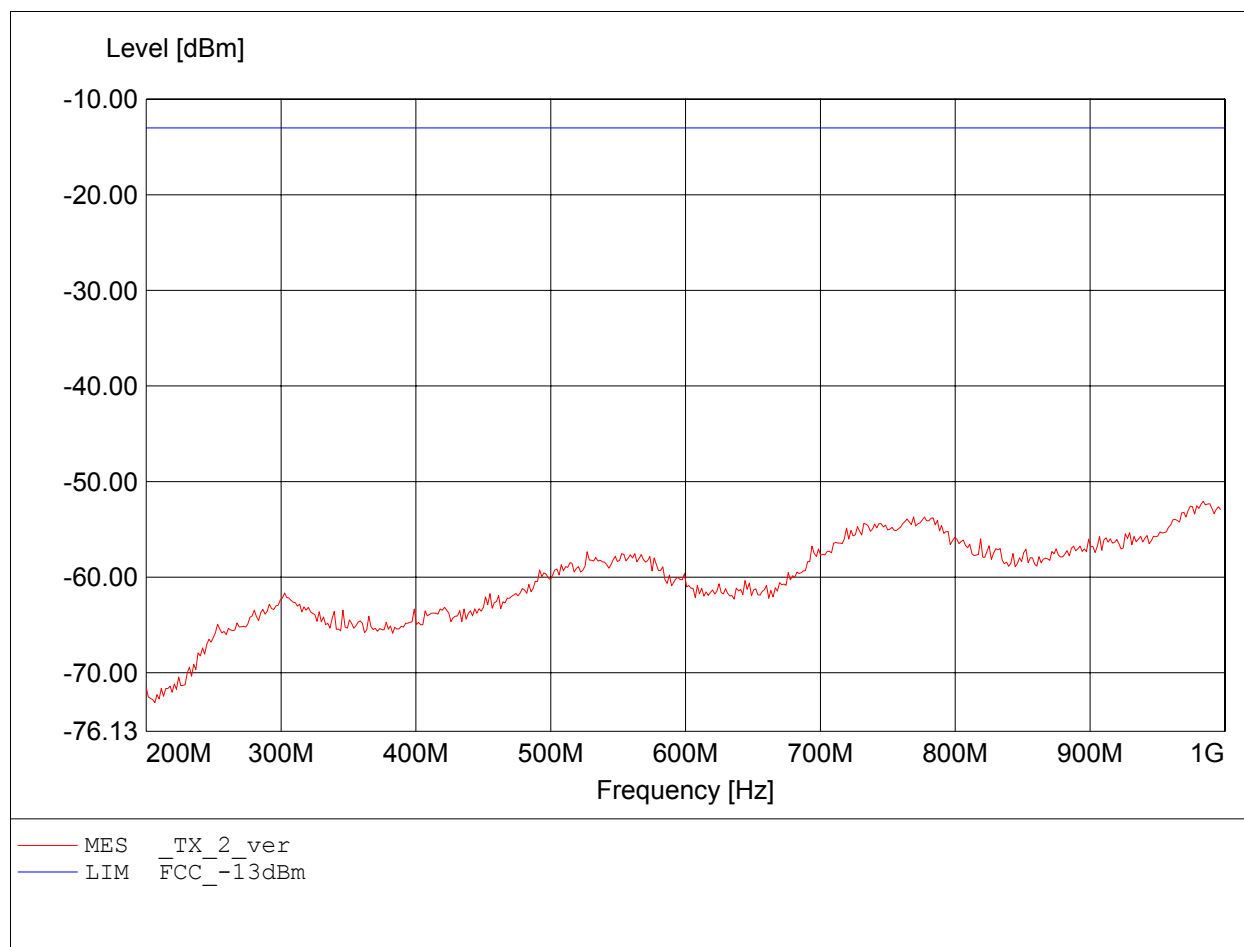
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 512
Comment 1: Dist.: 3m, Ant.: HL 223
Comment 2: Freq: 863.727MHz, Pmax: -50.83dBm, RBW: 100kHz



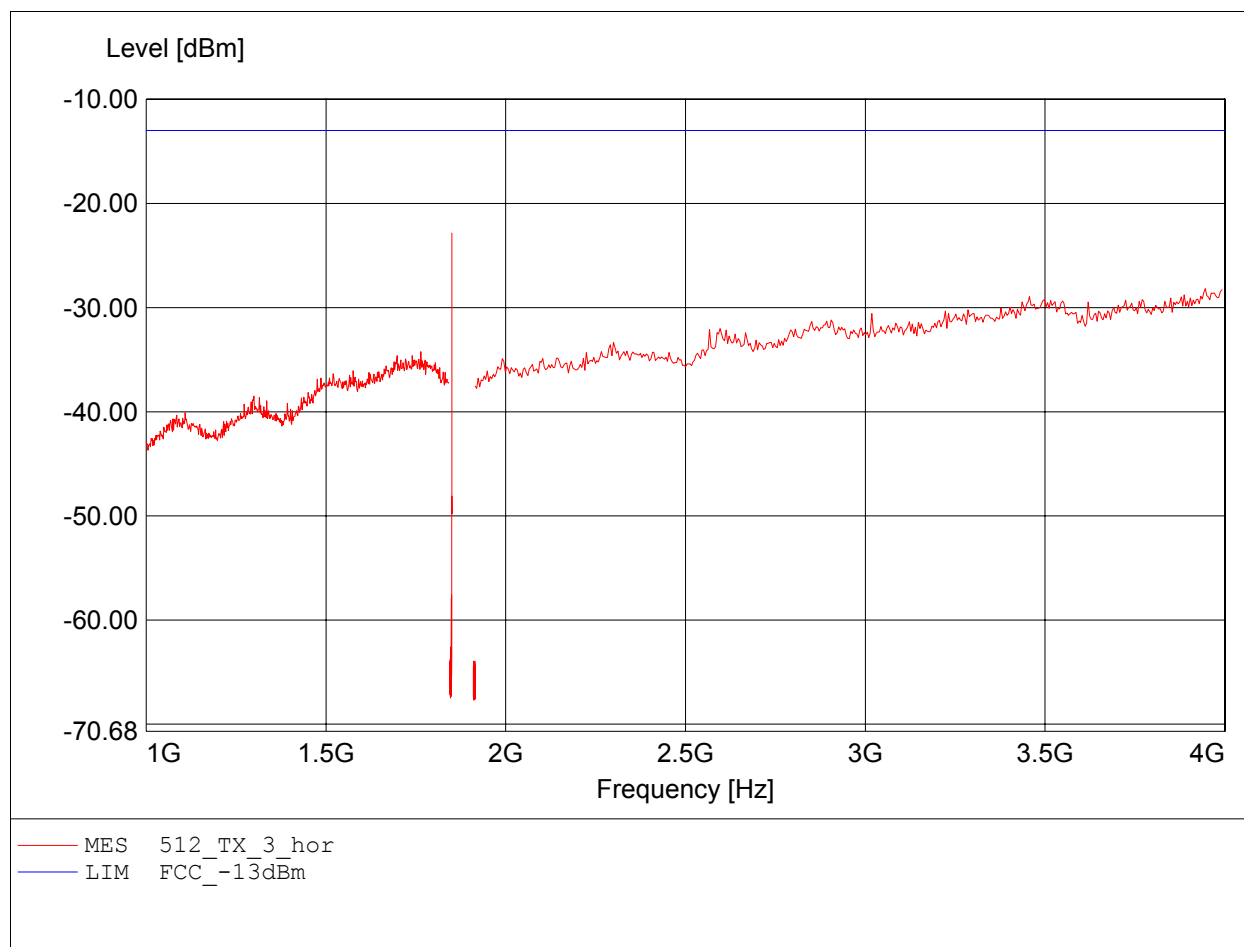
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 512
Comment 1: Dist.: 3m, Ant.: HL 223
Comment 2: Freq: 983.968MHz, Pmax: -52.06dBm, RBW: 100kHz



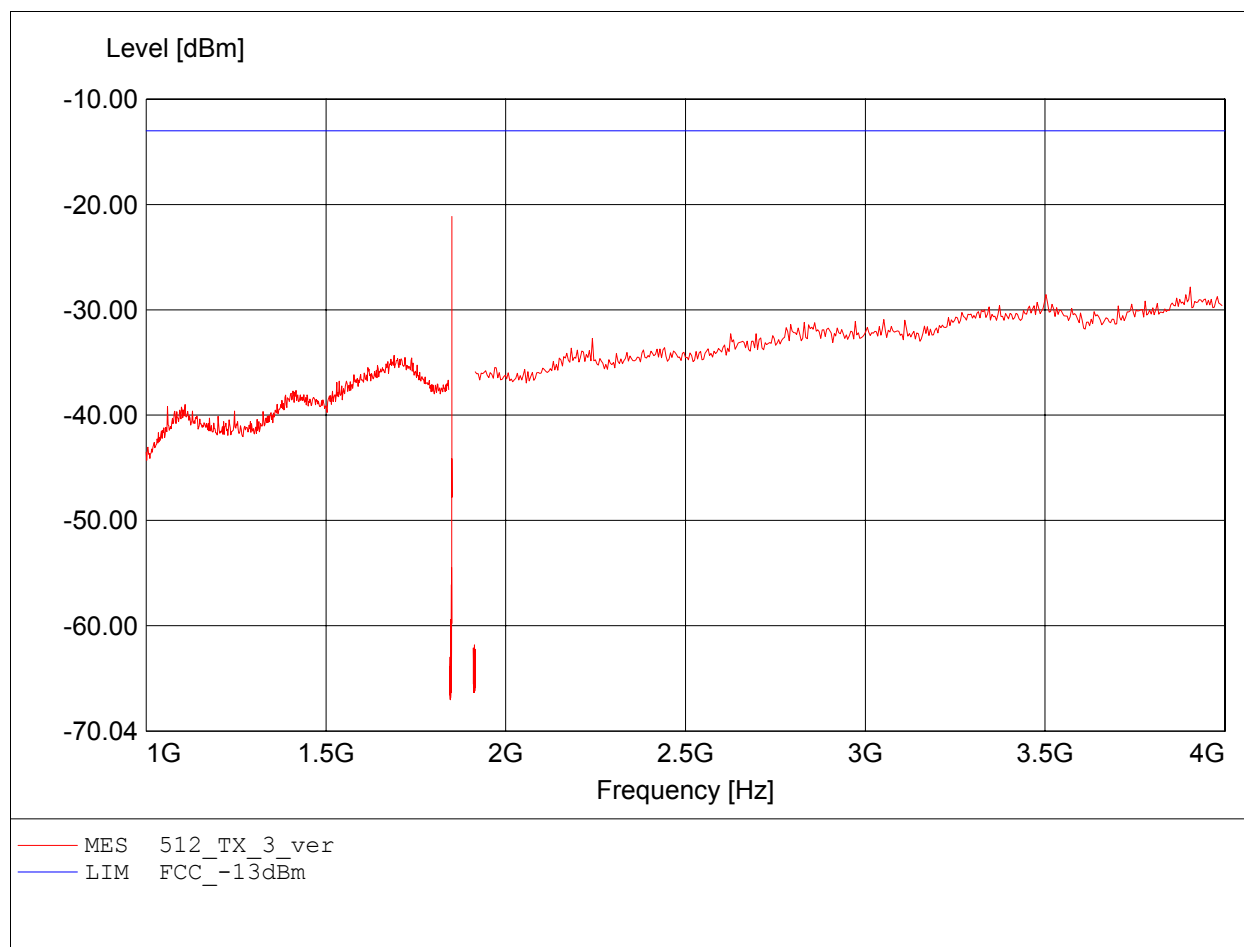
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 512
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq: 1.850GHz, Pmax: -22.86dBm, RBW: 1MHz/3kHz



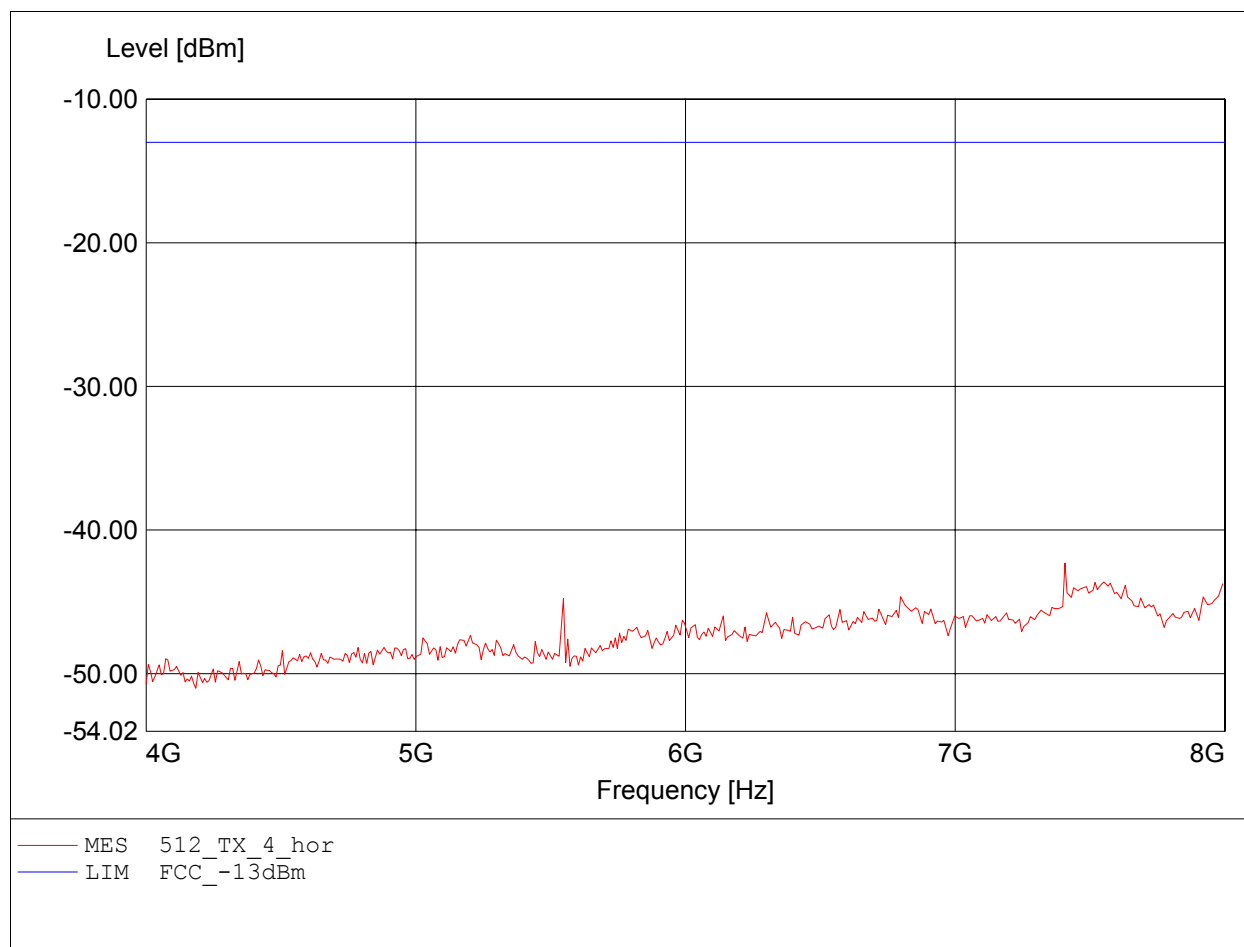
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 512
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq: 1.850GHz, Pmax: -21.12dBm, RBW: 1MHz/3kHz



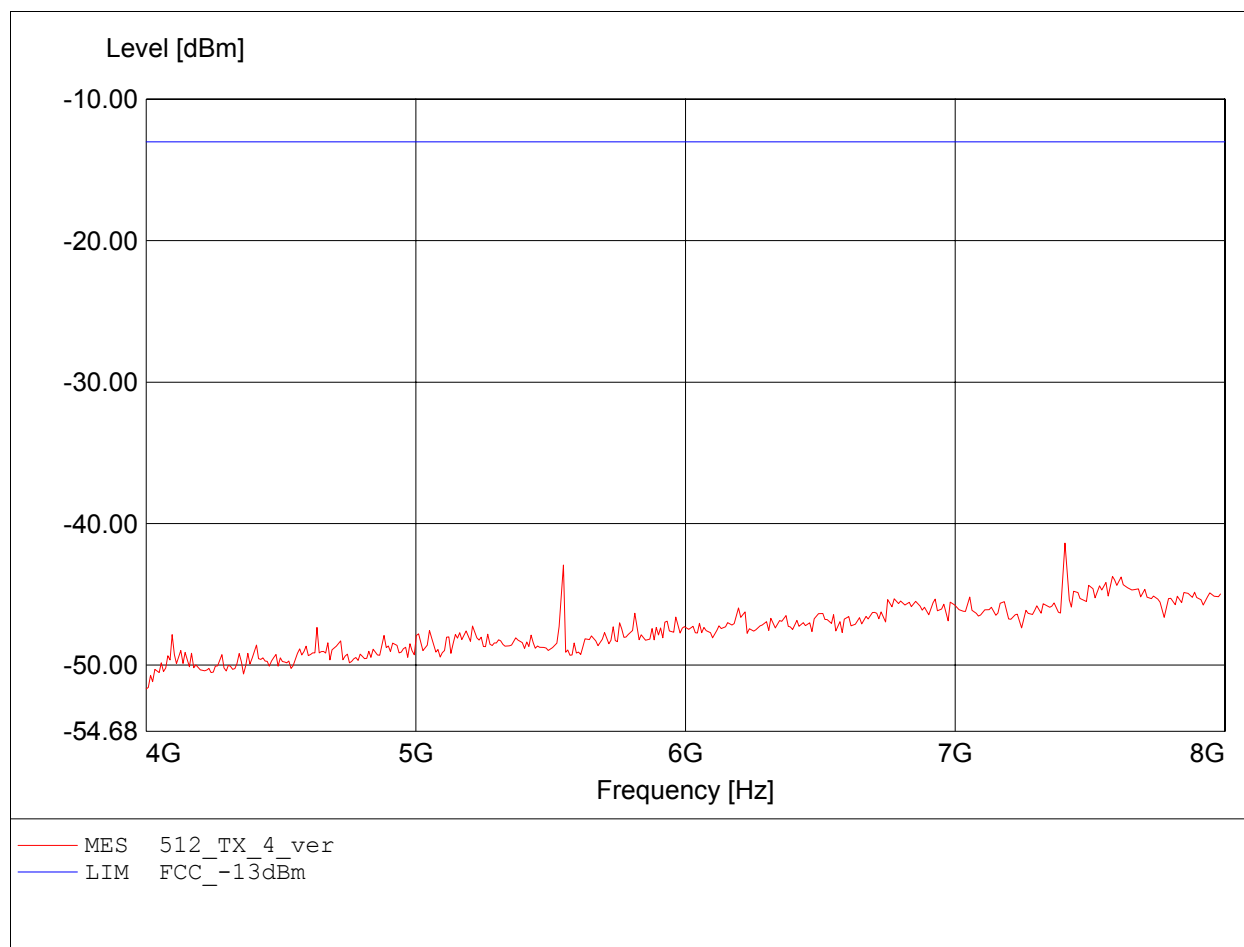
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 512
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 7.407GHz, Pmax: -42.30dBm, RBW: 1MHz



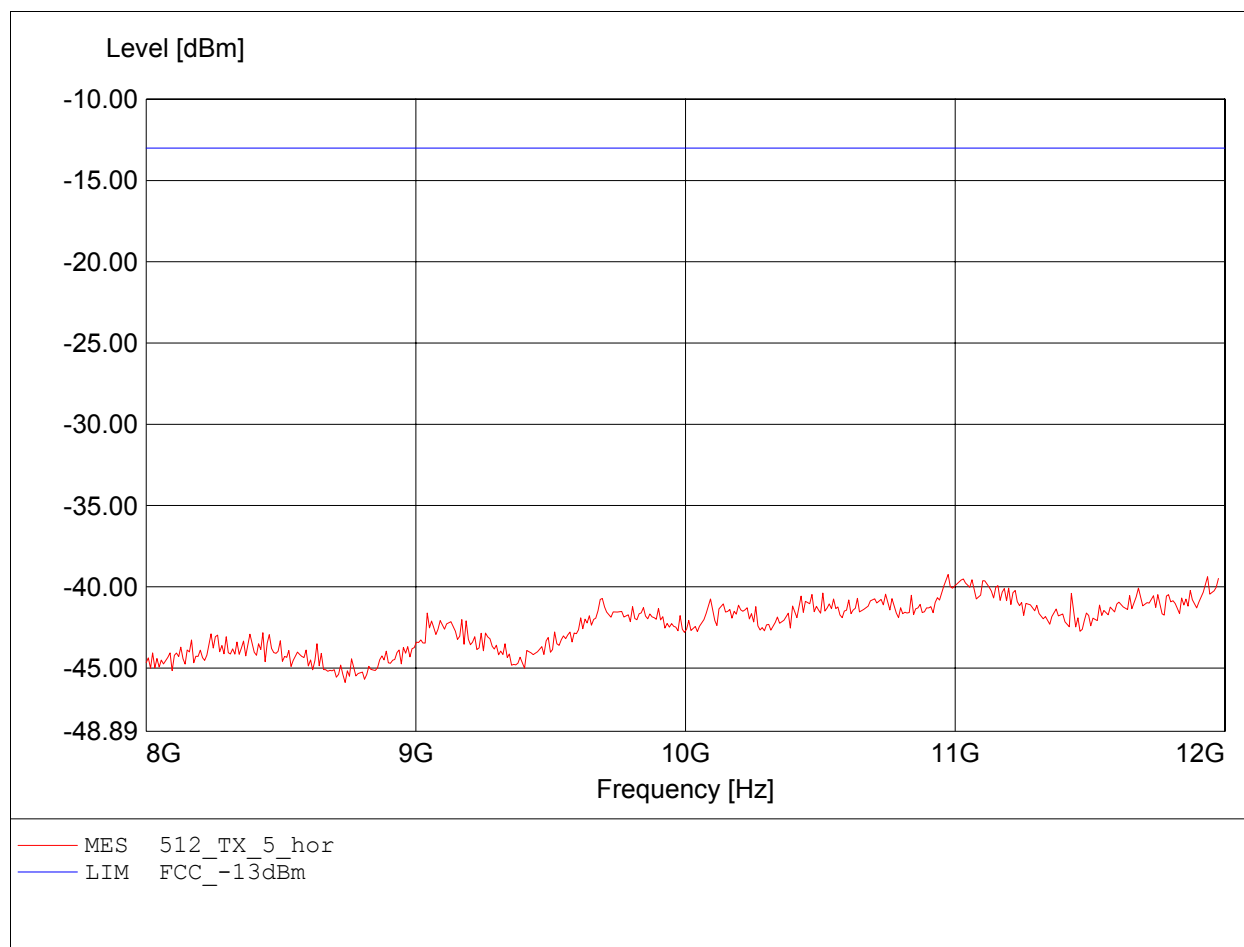
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 512
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 7.407GHz, Pmax: -41.38dBm, RBW: 1MHz



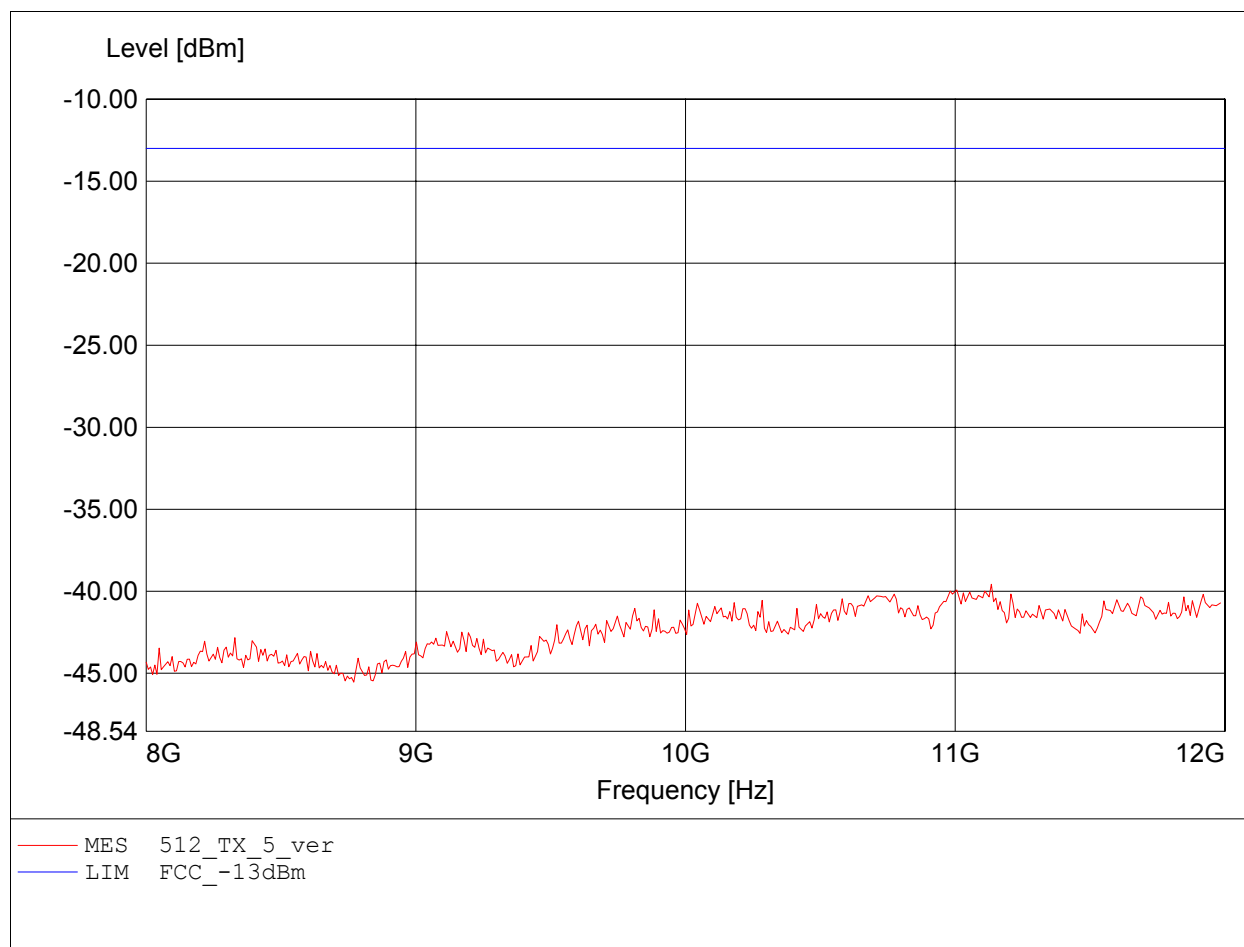
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 512
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 10.974GHz, Pmax: -39.24dBm, RBW: 1MHz



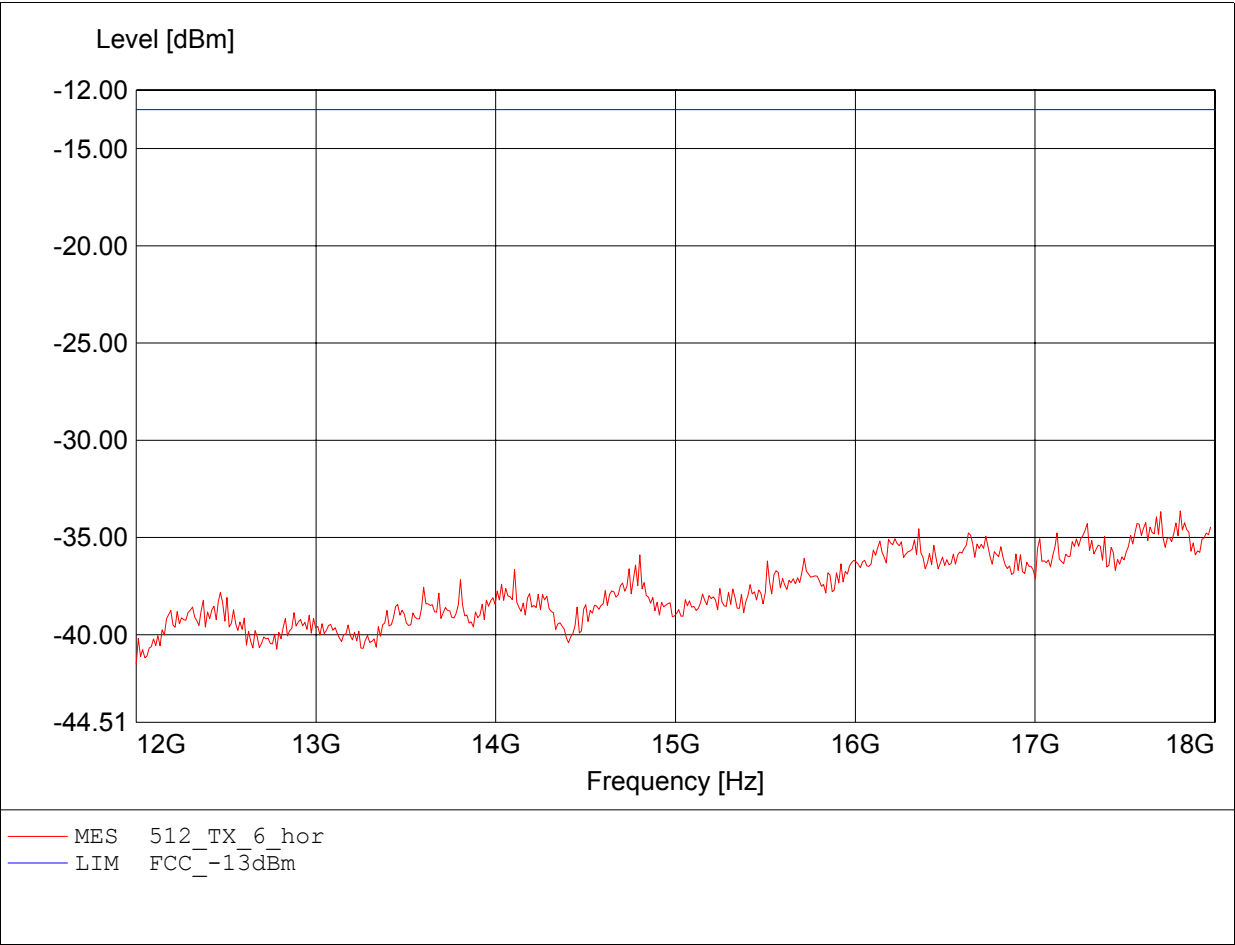
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 512
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 11.134GHz, Pmax: -39.57dBm, RBW: 1MHz



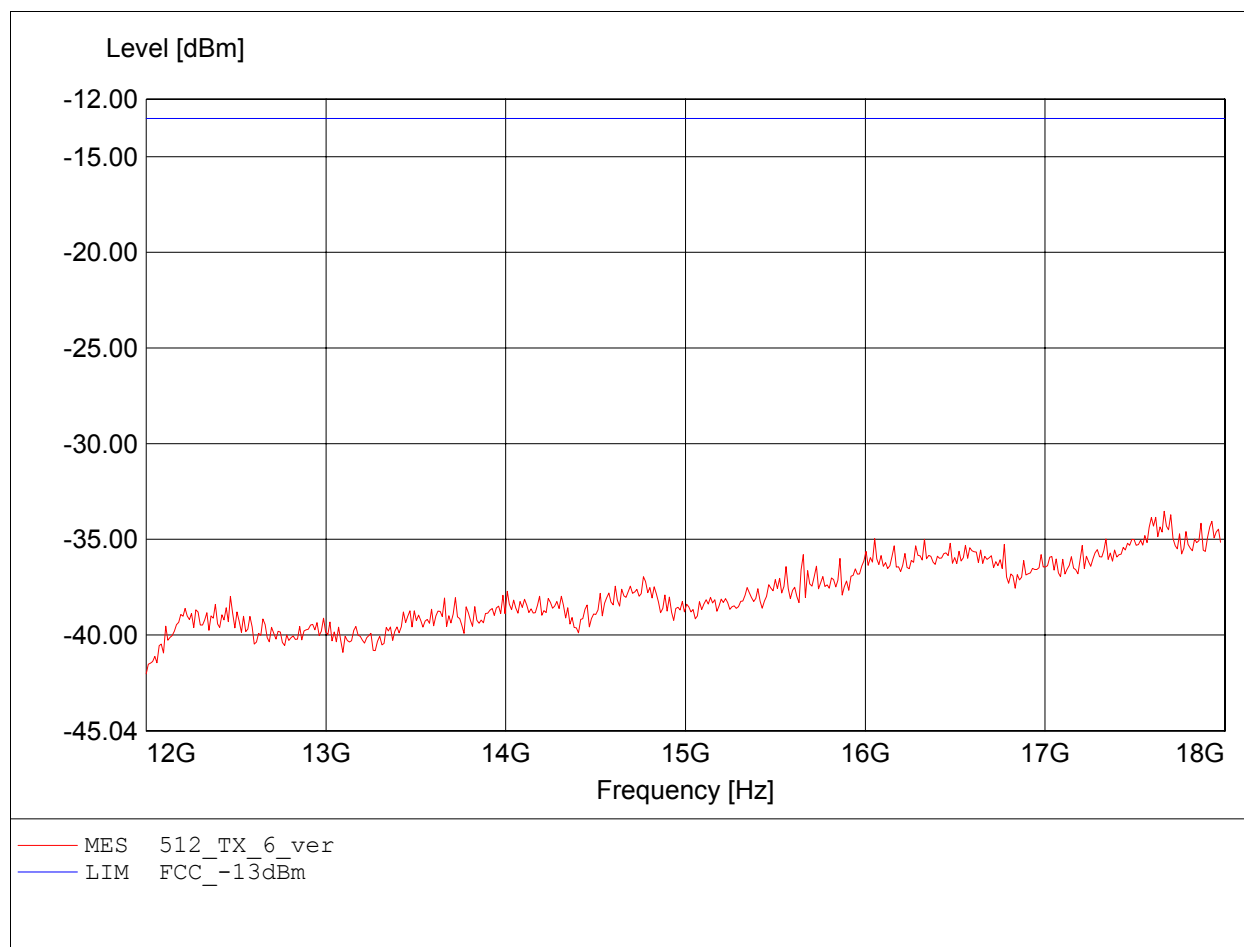
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 512
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 17.808GHz, Pmax: -33.64dBm, RBW: 1MHz



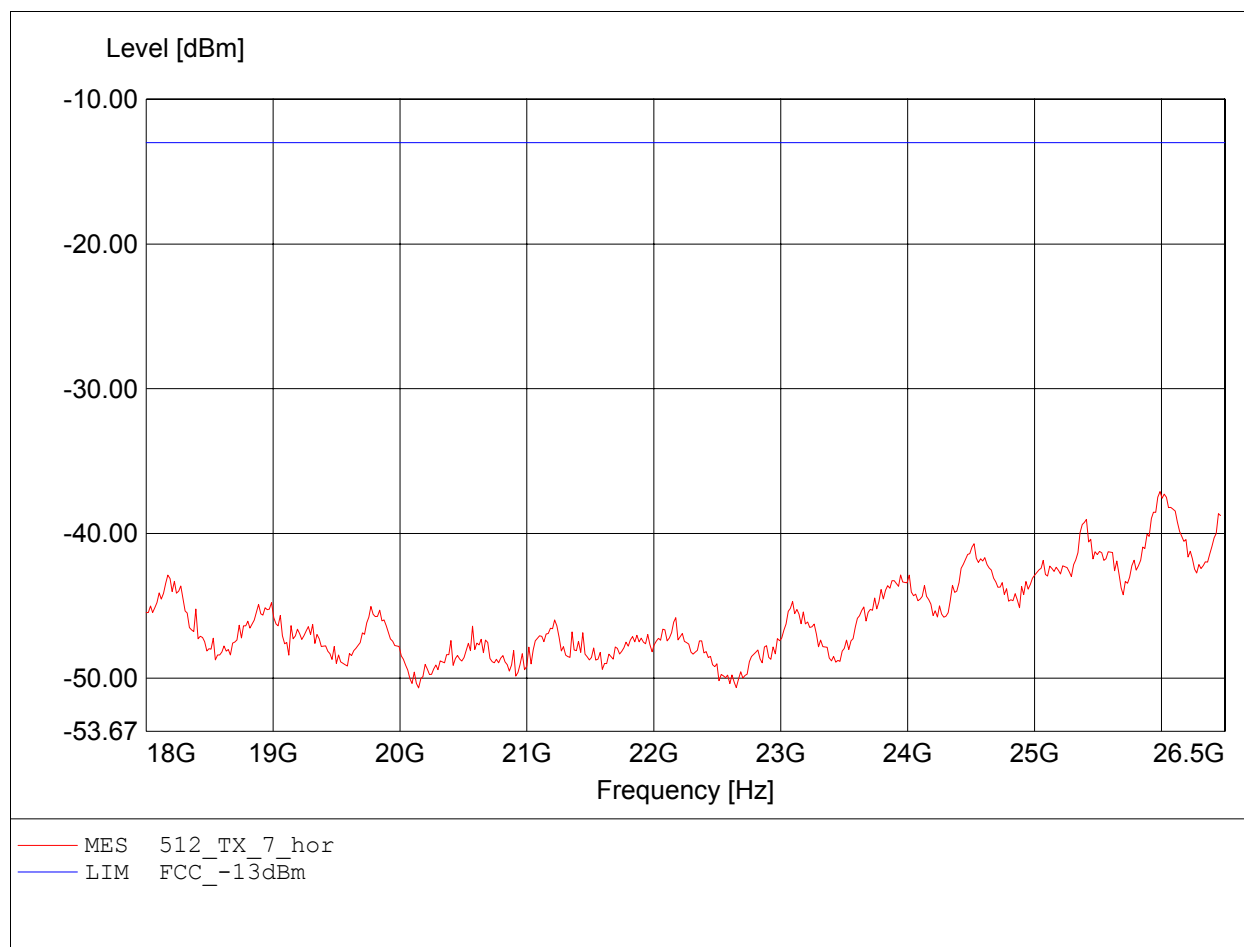
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 512
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 17.663GHz, Pmax: -33.54dBm, RBW: 1MHz



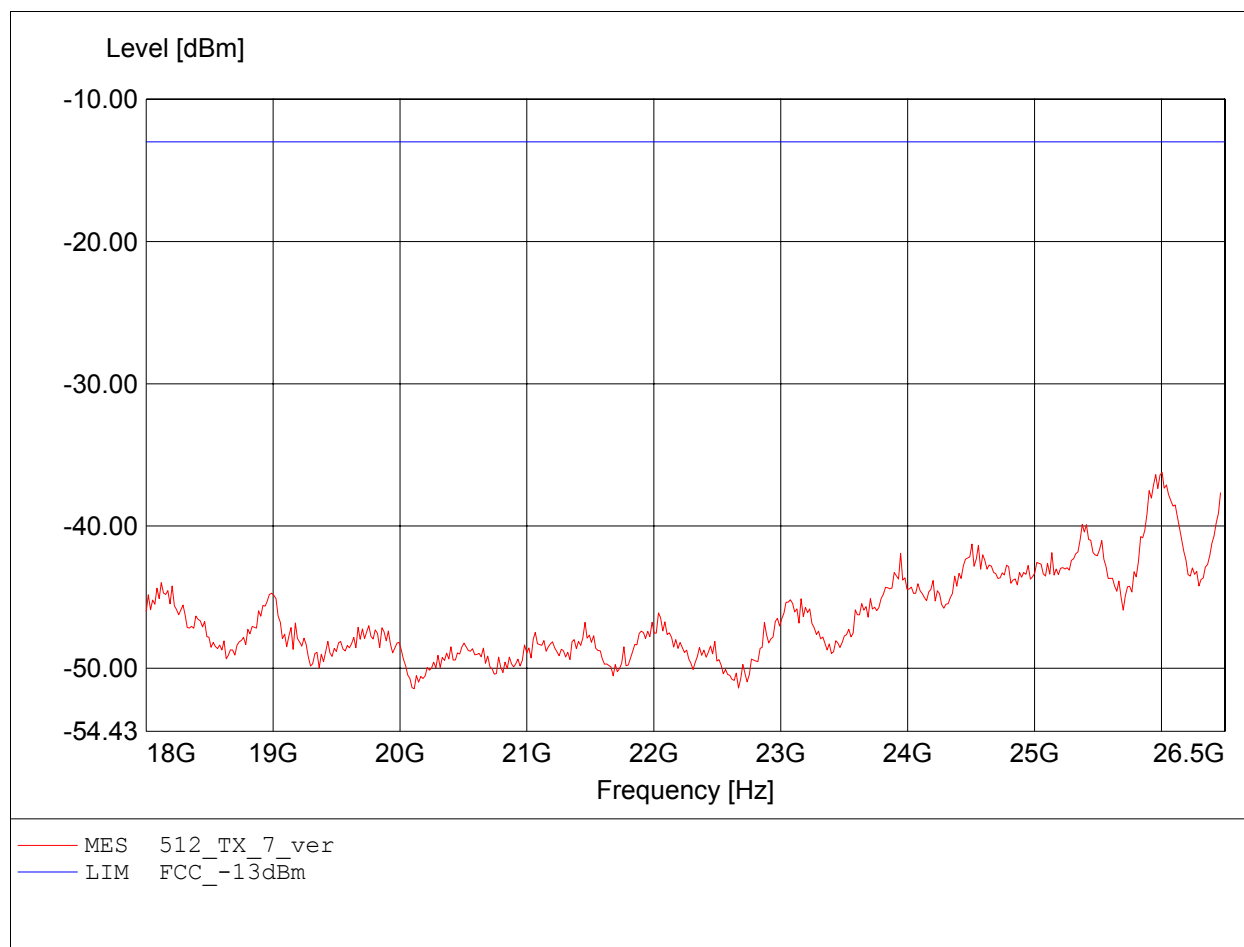
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 512
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 25.989GHz, Pmax: -37.10dBm, RBW: 1MHz



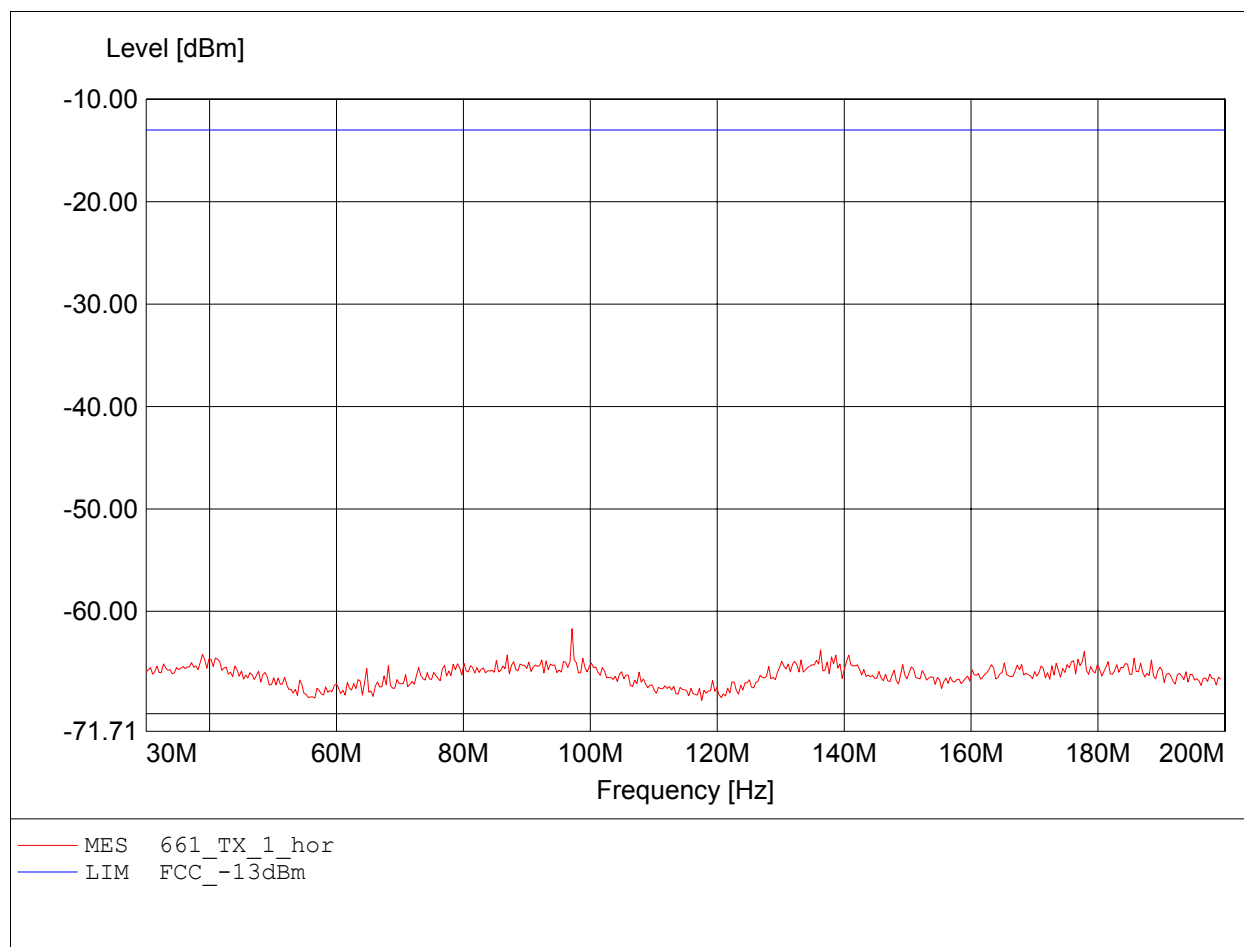
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 512
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 26.006GHz, Pmax: -36.24dBm, RBW: 1MHz



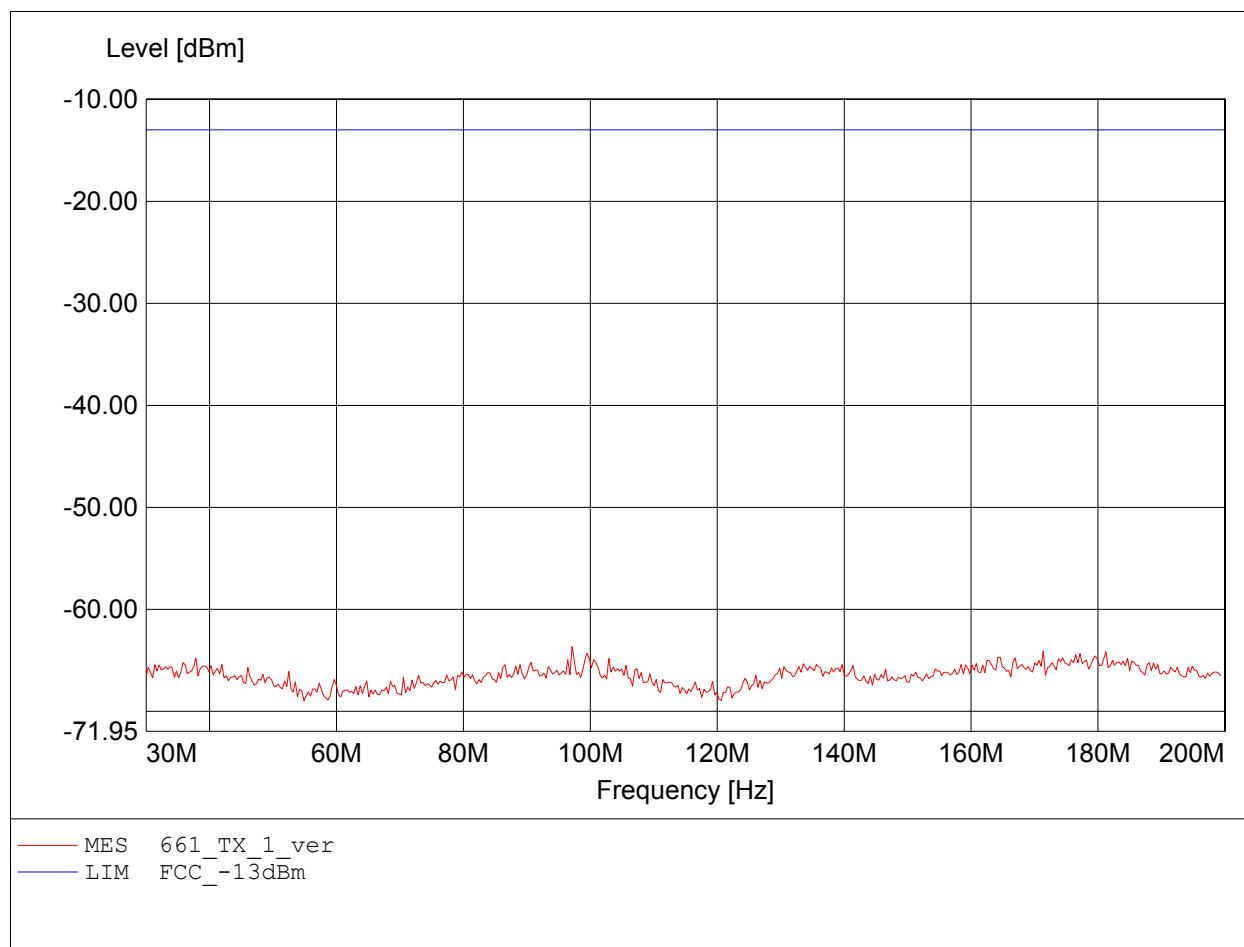
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 661
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 97.114MHz, Pmax: -61.68dBm, RBW: 100kHz



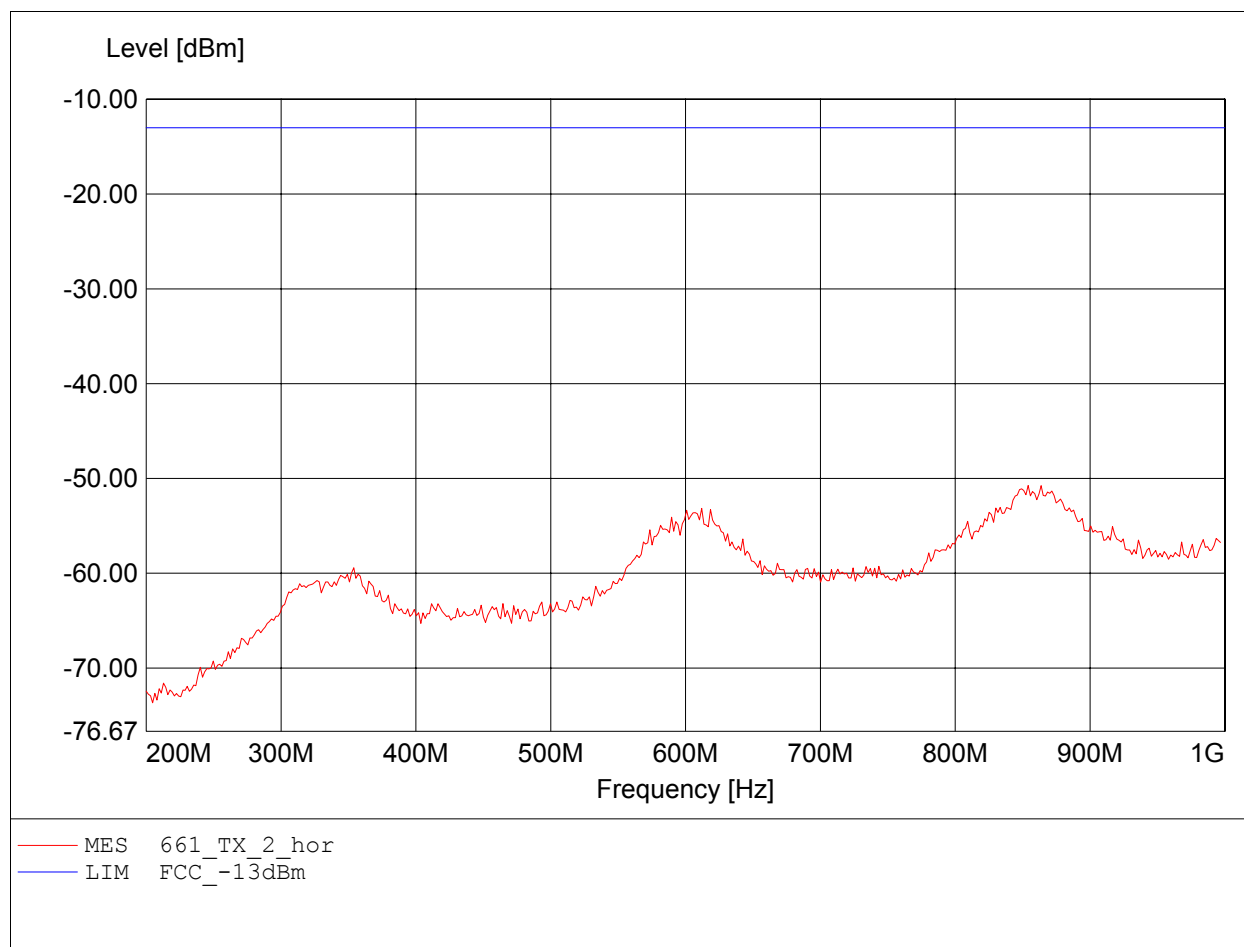
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 661
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 97.114MHz, Pmax: -63.65dBm, RBW: 100kHz



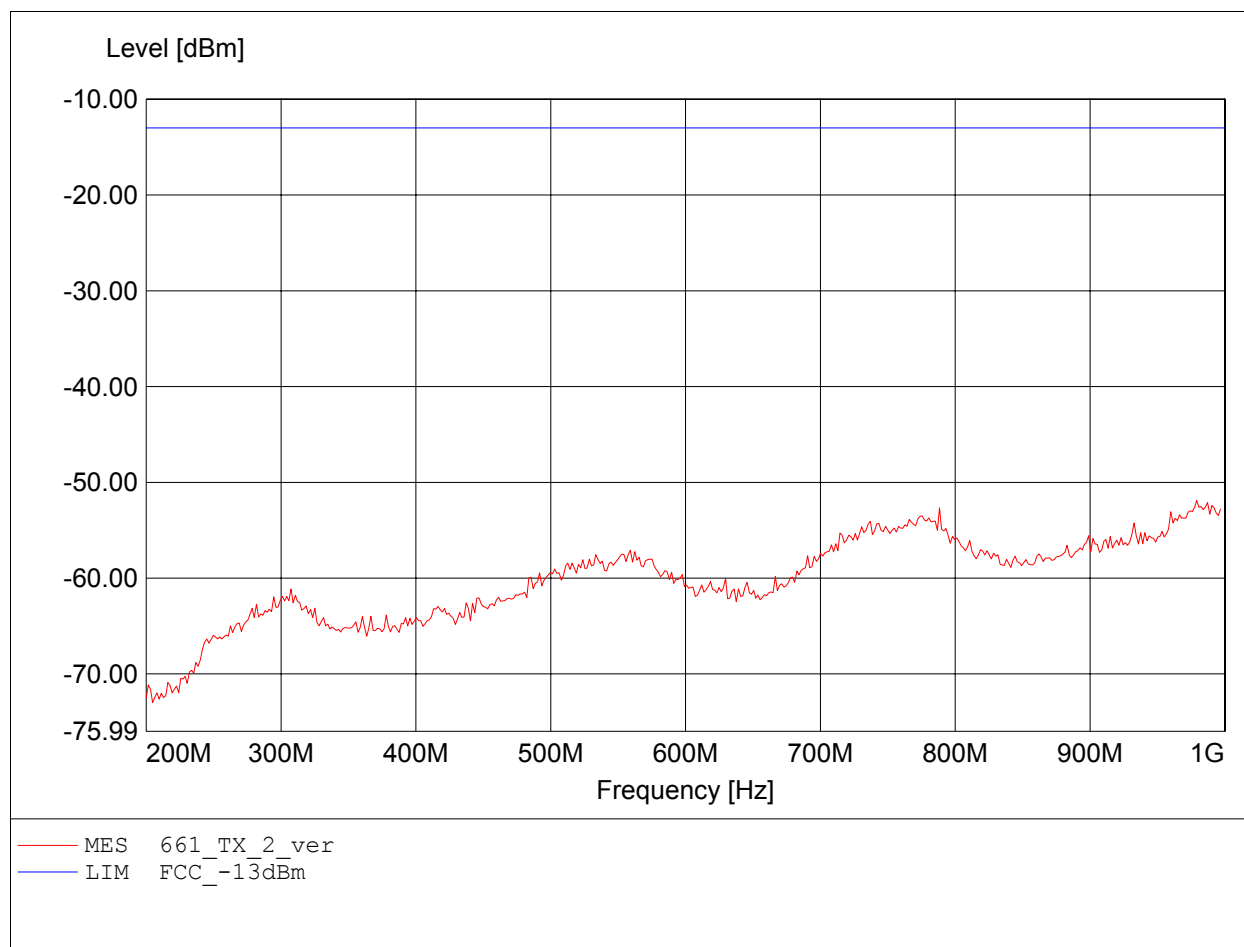
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 661
Comment 1: Dist.: 3m, Ant.: HL 223
Comment 2: Freq: 854.108MHz, Pmax: -50.75dBm, RBW: 100kHz



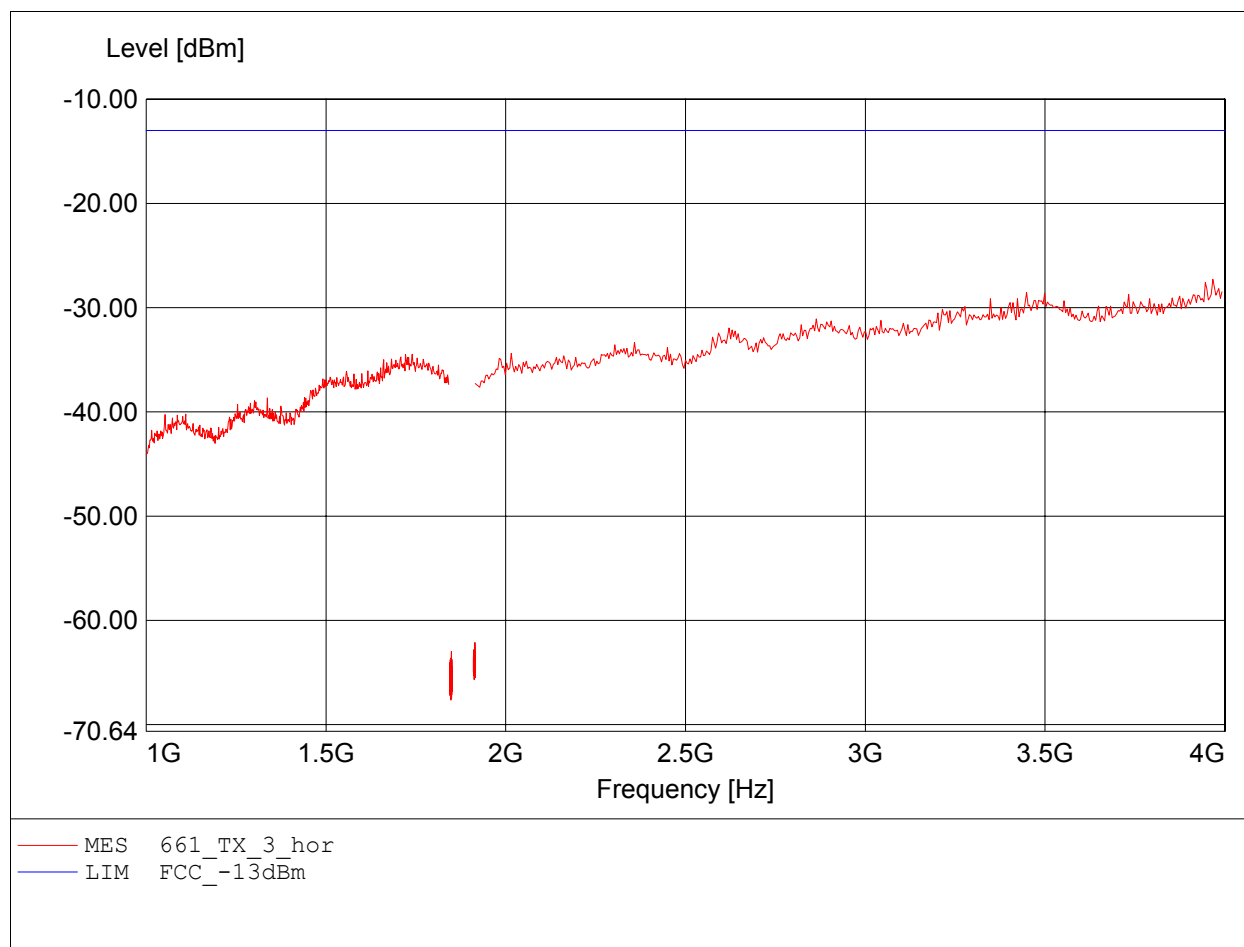
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 661
Comment 1: Dist.: 3m, Ant.: HL 223
Comment 2: Freq: 979.158MHz, Pmax: -51.90dBm, RBW: 100kHz



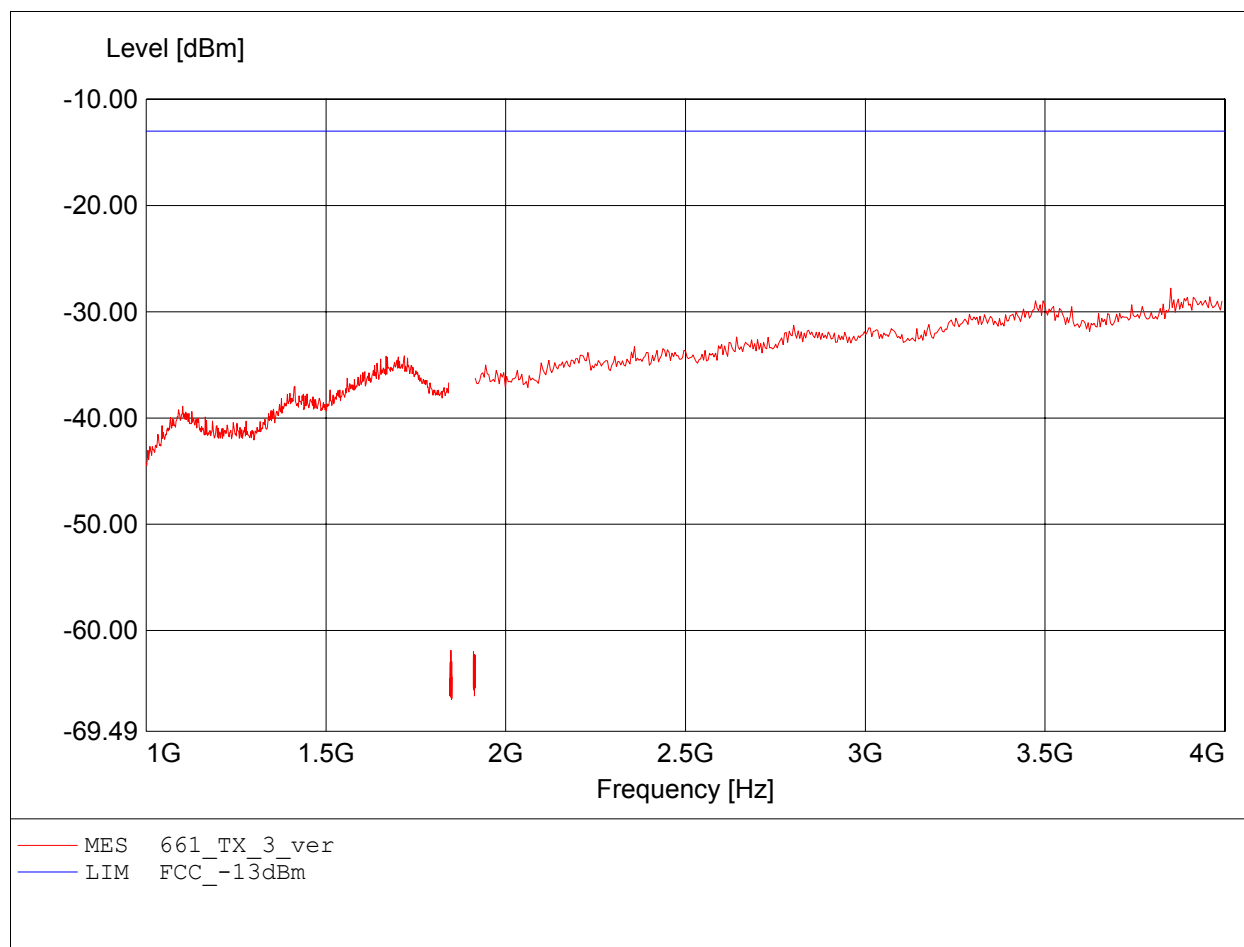
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 661
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq: 3.967GHz, Pmax: -27.28dBm, RBW: 1MHz/3kHz



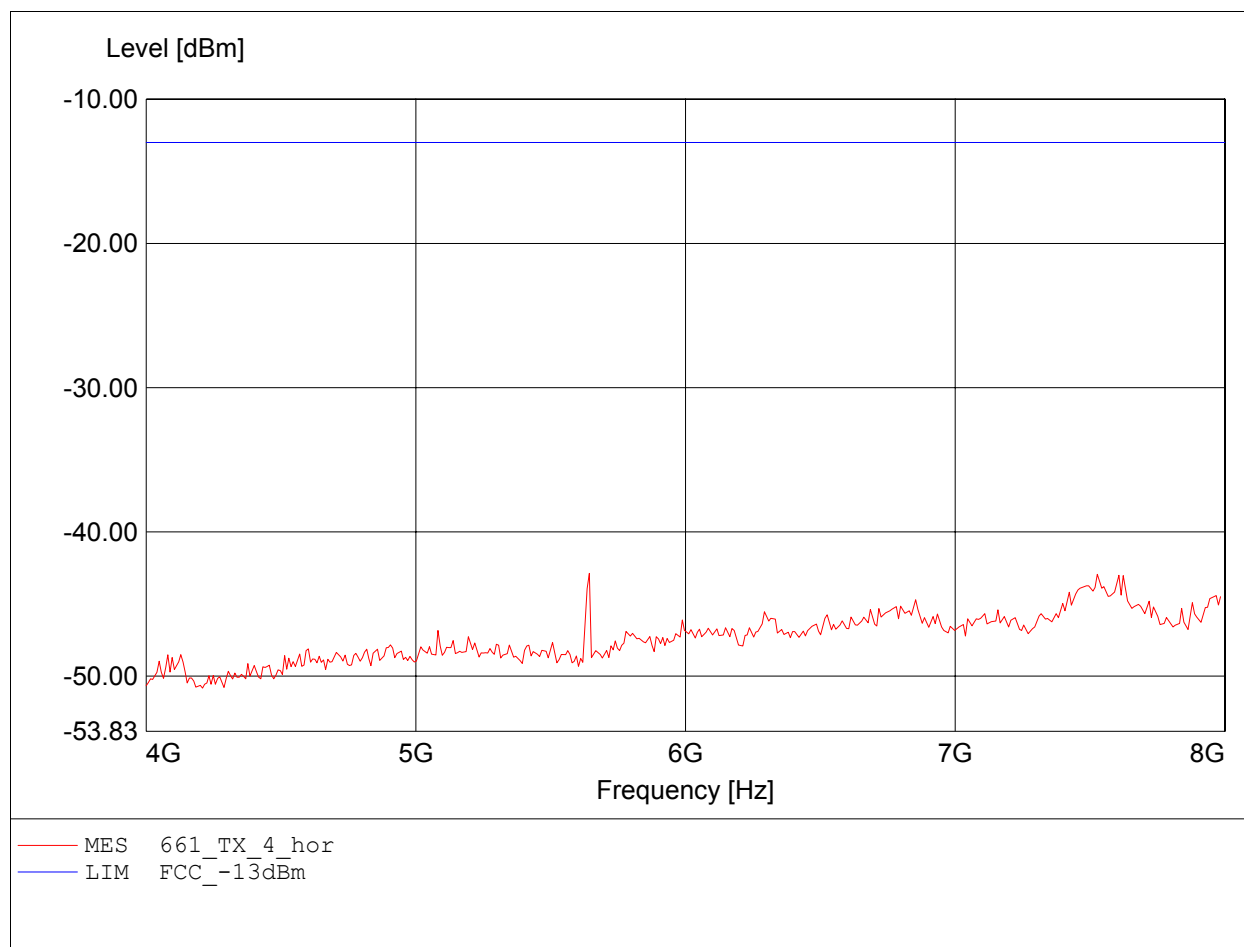
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 661
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq: 3.850GHz, Pmax: -27.78dBm, RBW: 1MHz/3kHz



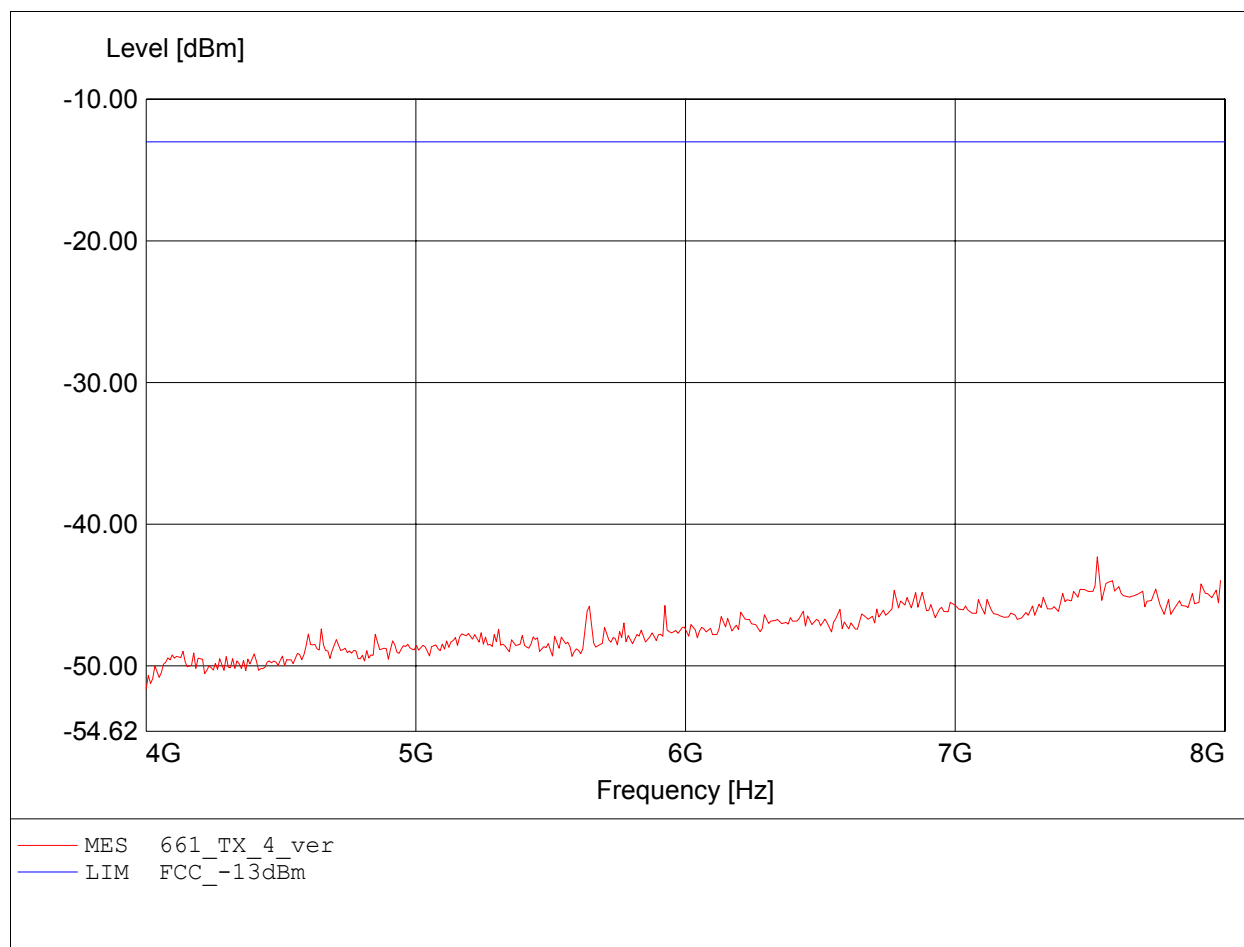
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 661
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 5.643GHz, Pmax: -42.87dBm, RBW: 1MHz



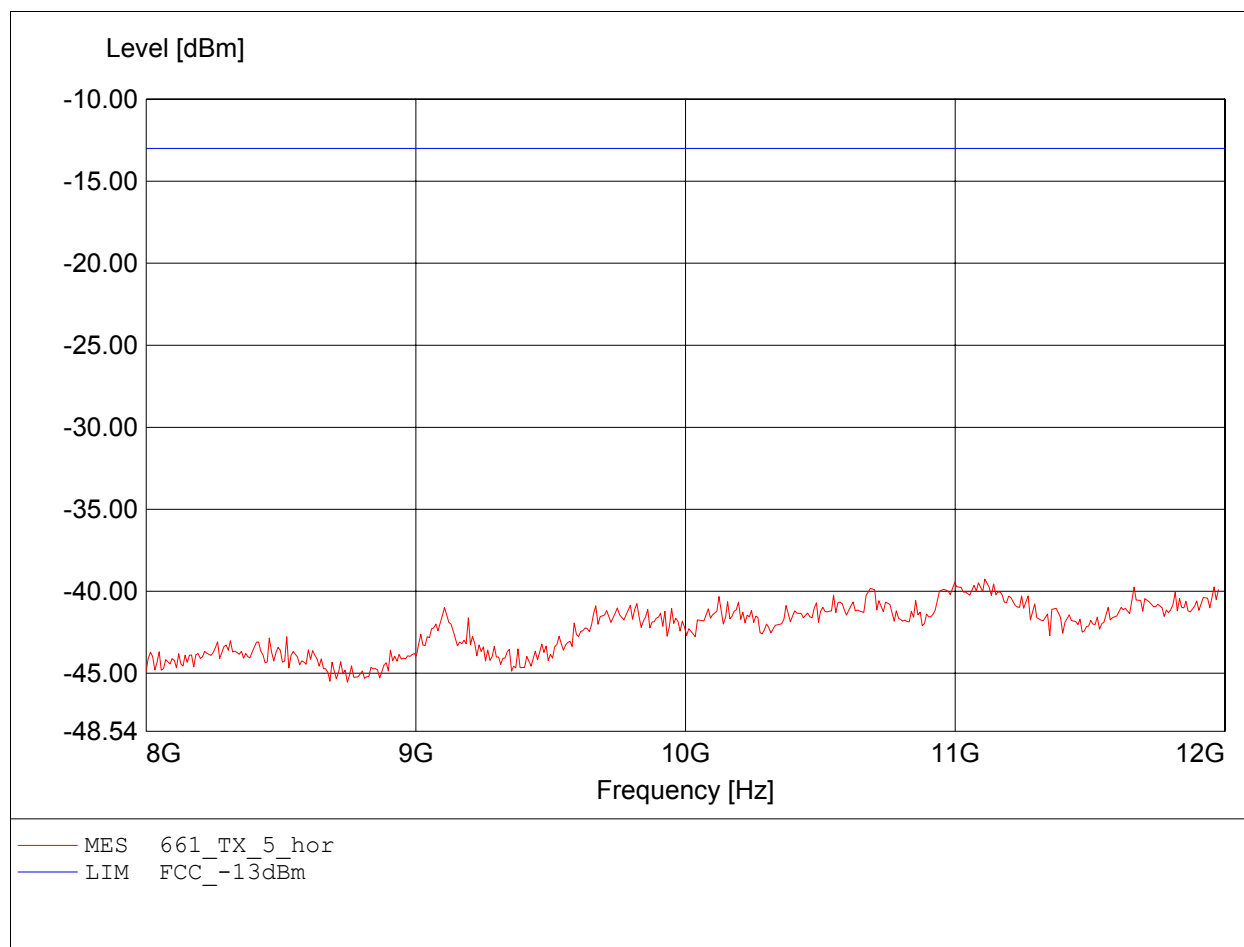
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 661
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 7.527GHz, Pmax: -42.30dBm, RBW: 1MHz



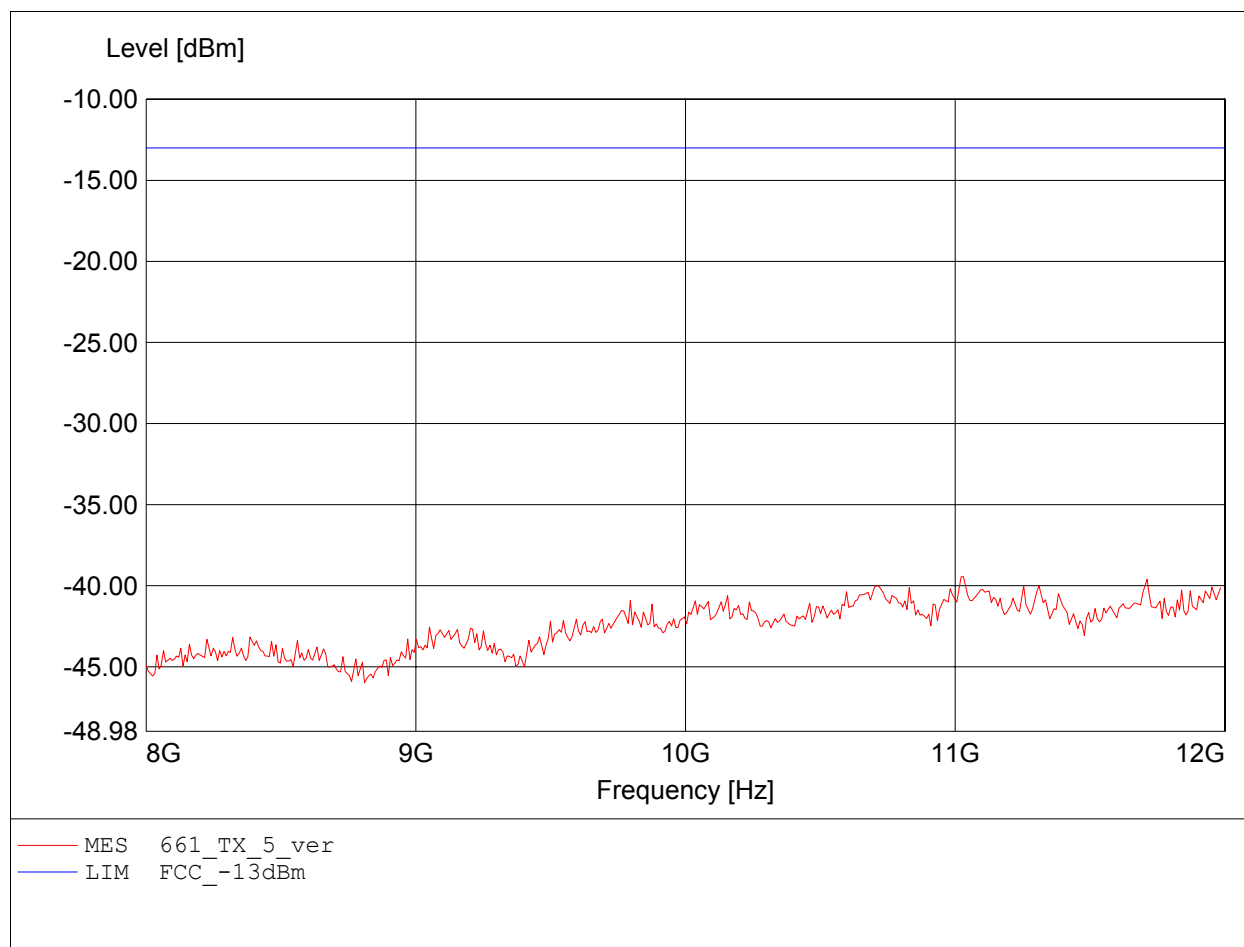
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 661
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 11.110GHz, Pmax: -39.26dBm, RBW: 1MHz



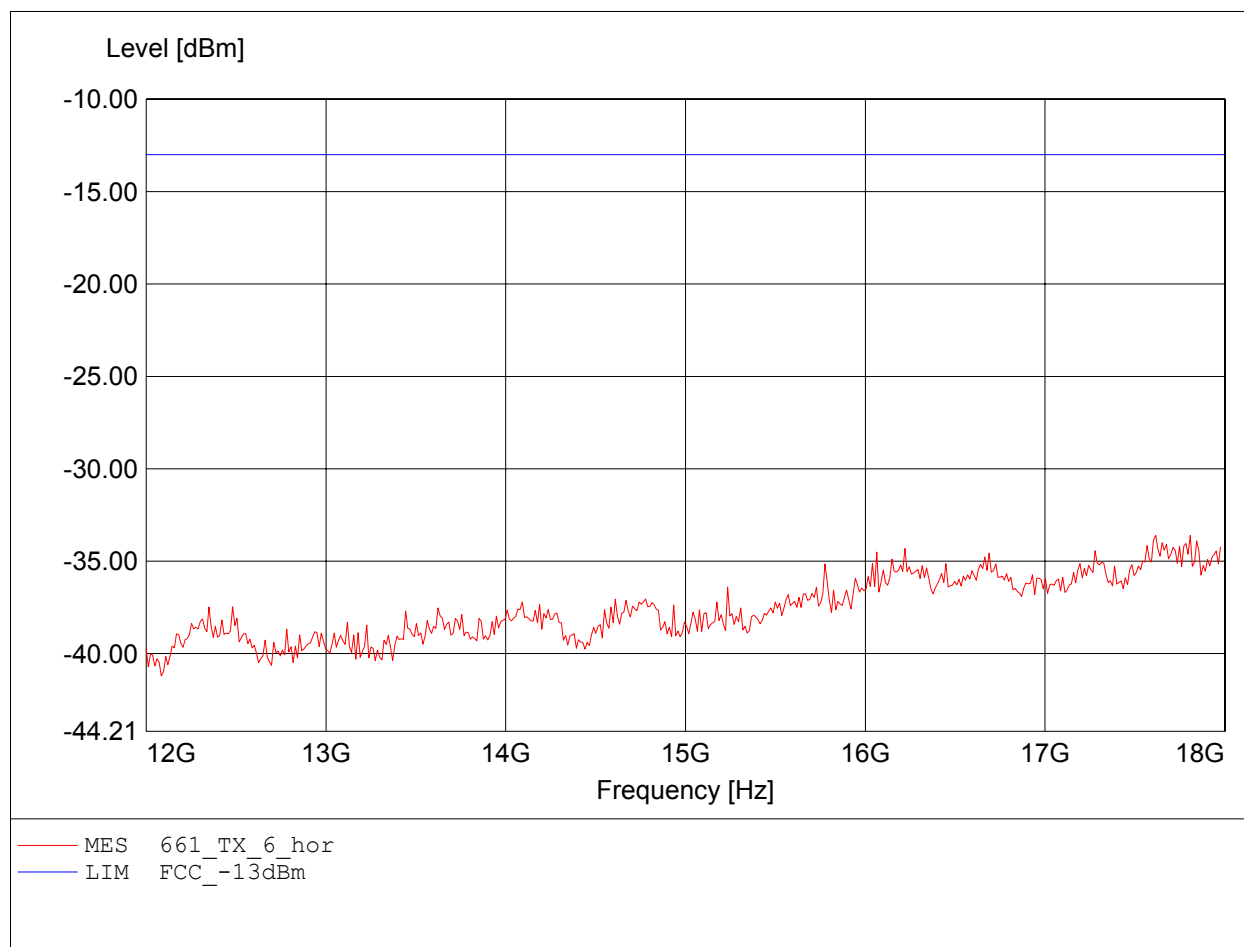
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 661
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 11.030GHz, Pmax: -39.43dBm, RBW: 1MHz



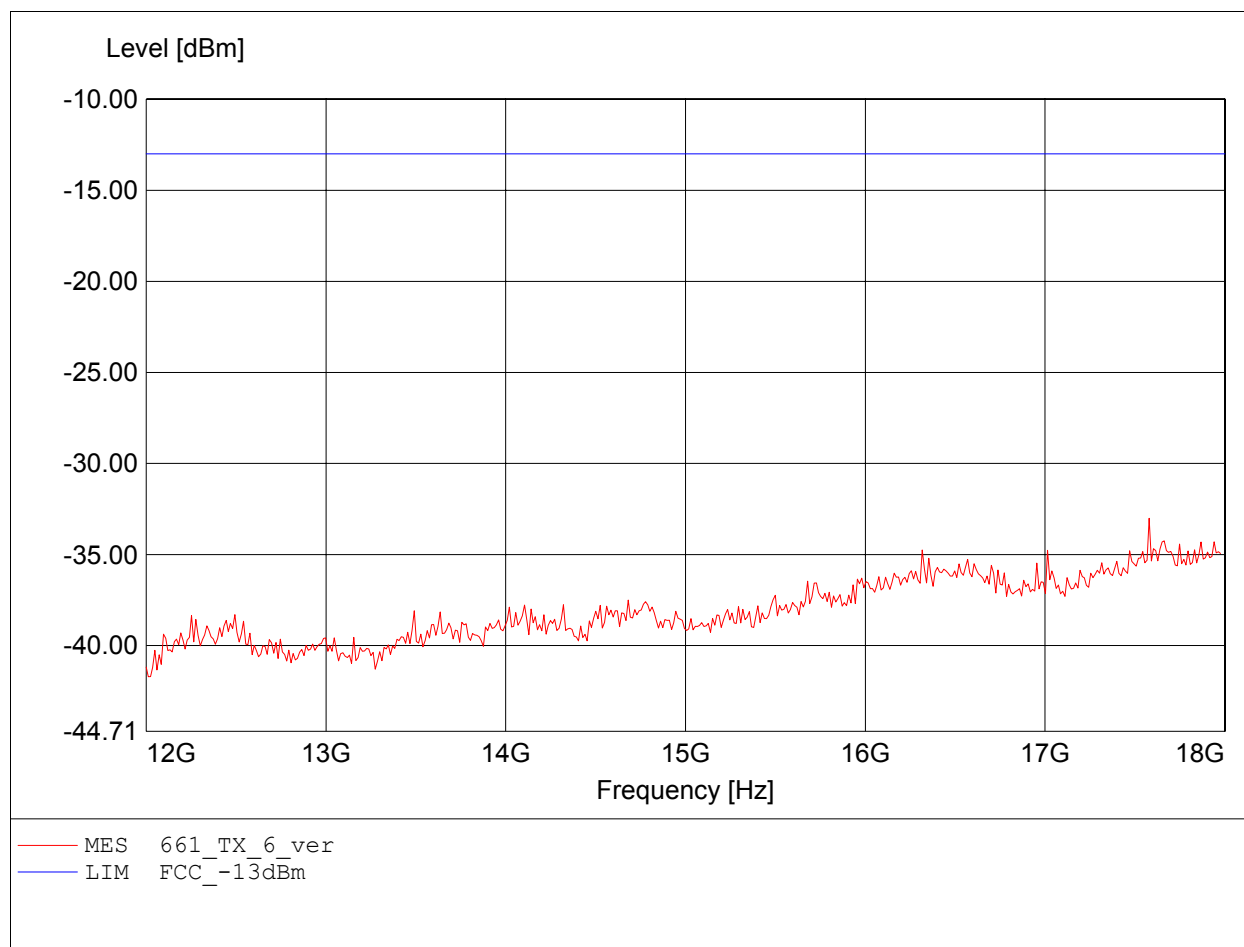
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 661
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 17.615GHz, Pmax: -33.60dBm, RBW: 1MHz



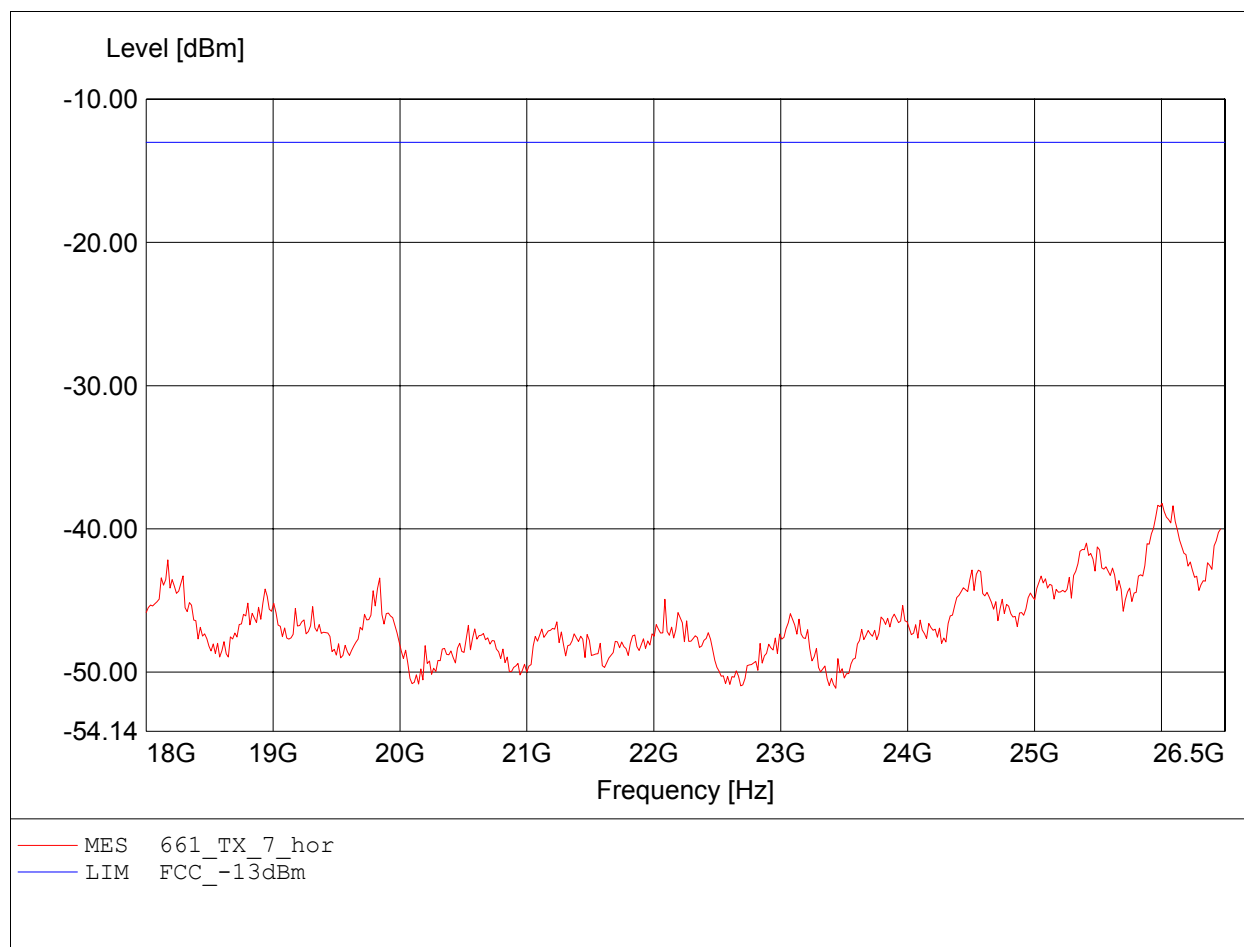
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 661
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 17.579GHz, Pmax: -33.01dBm, RBW: 1MHz



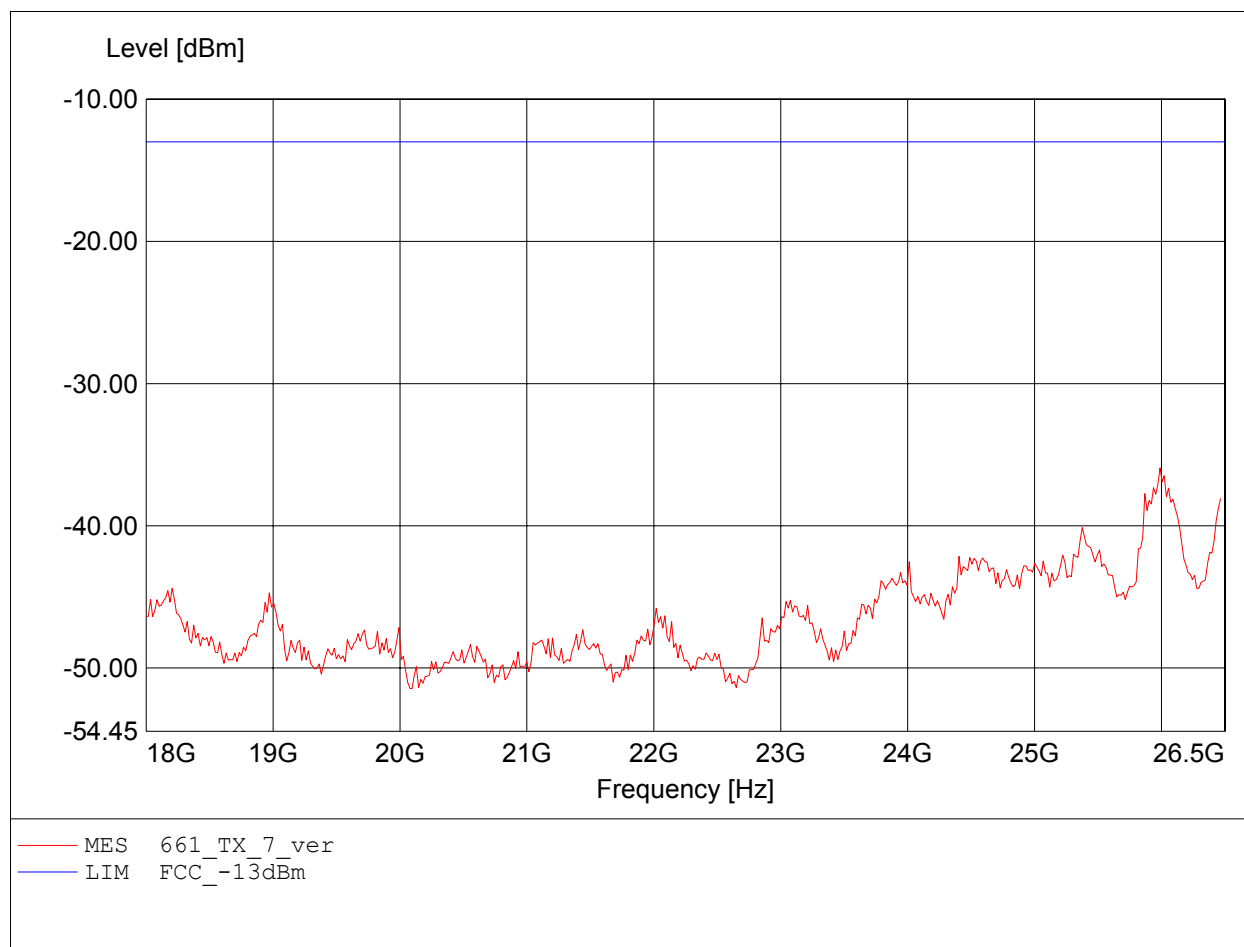
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 661
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 26.006GHz, Pmax: -38.22dBm, RBW: 1MHz



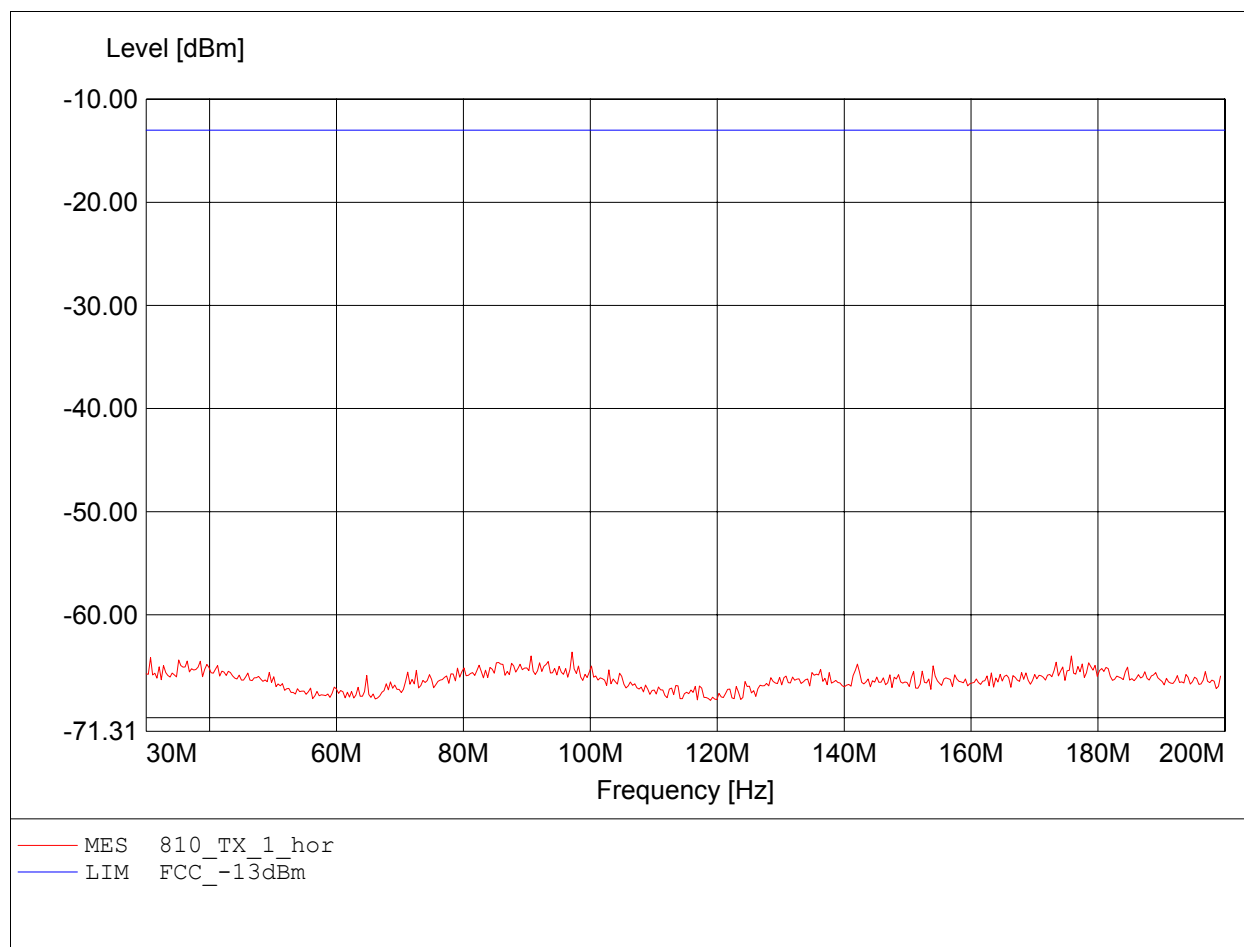
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 661
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 25.989GHz, Pmax: -35.93dBm, RBW: 1MHz



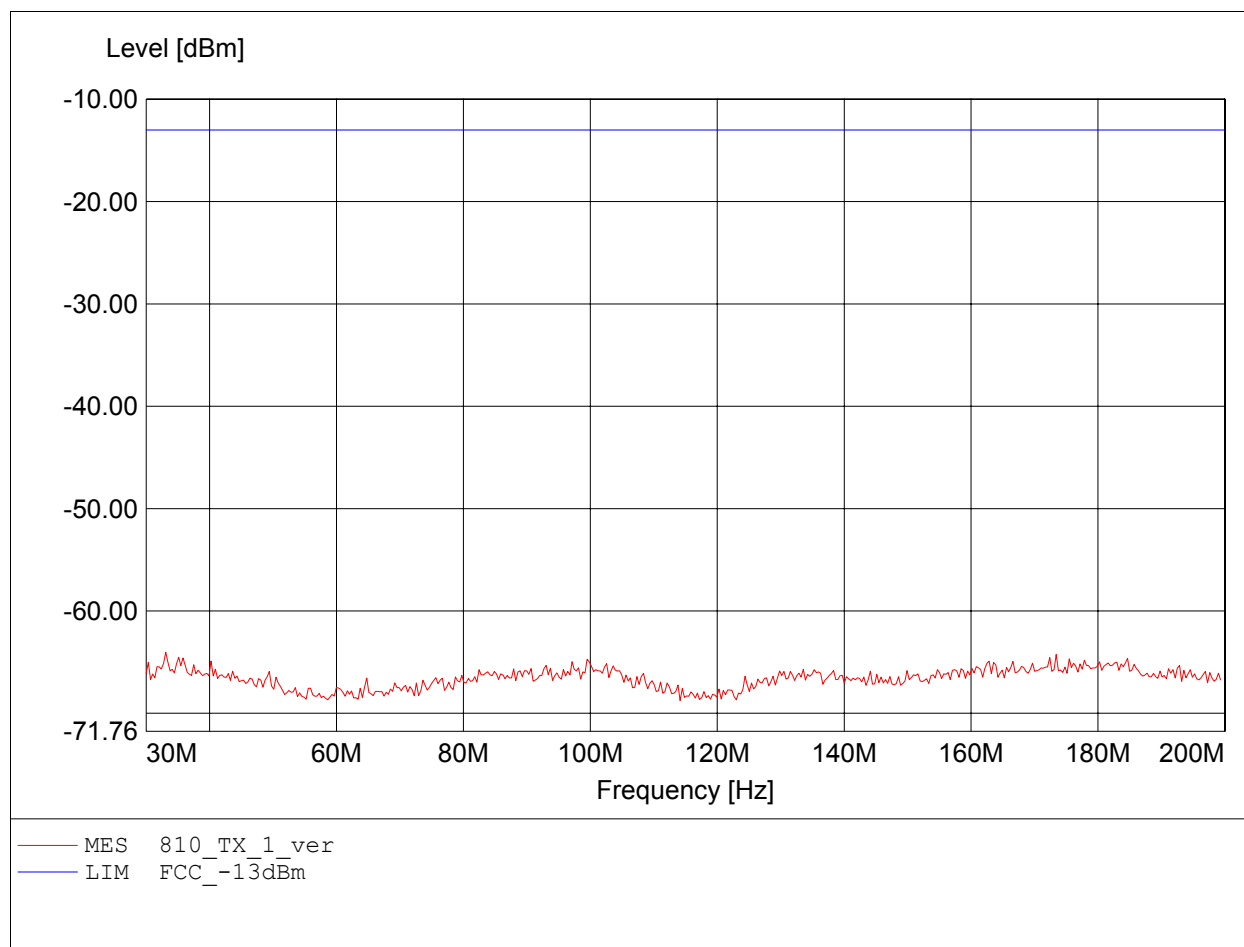
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
 EUT: GSM/GPRS-GPS Personal tracker
 Model : MAMBO2 / (S-1)
 Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
 Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
 Test Conditions 2: Freq. / CH: 810
 Comment 1: Dist.: 3m, Ant.: HK 116
 Comment 2: Freq: 97.114MHz, Pmax: -63.62dBm, RBW: 100kHz



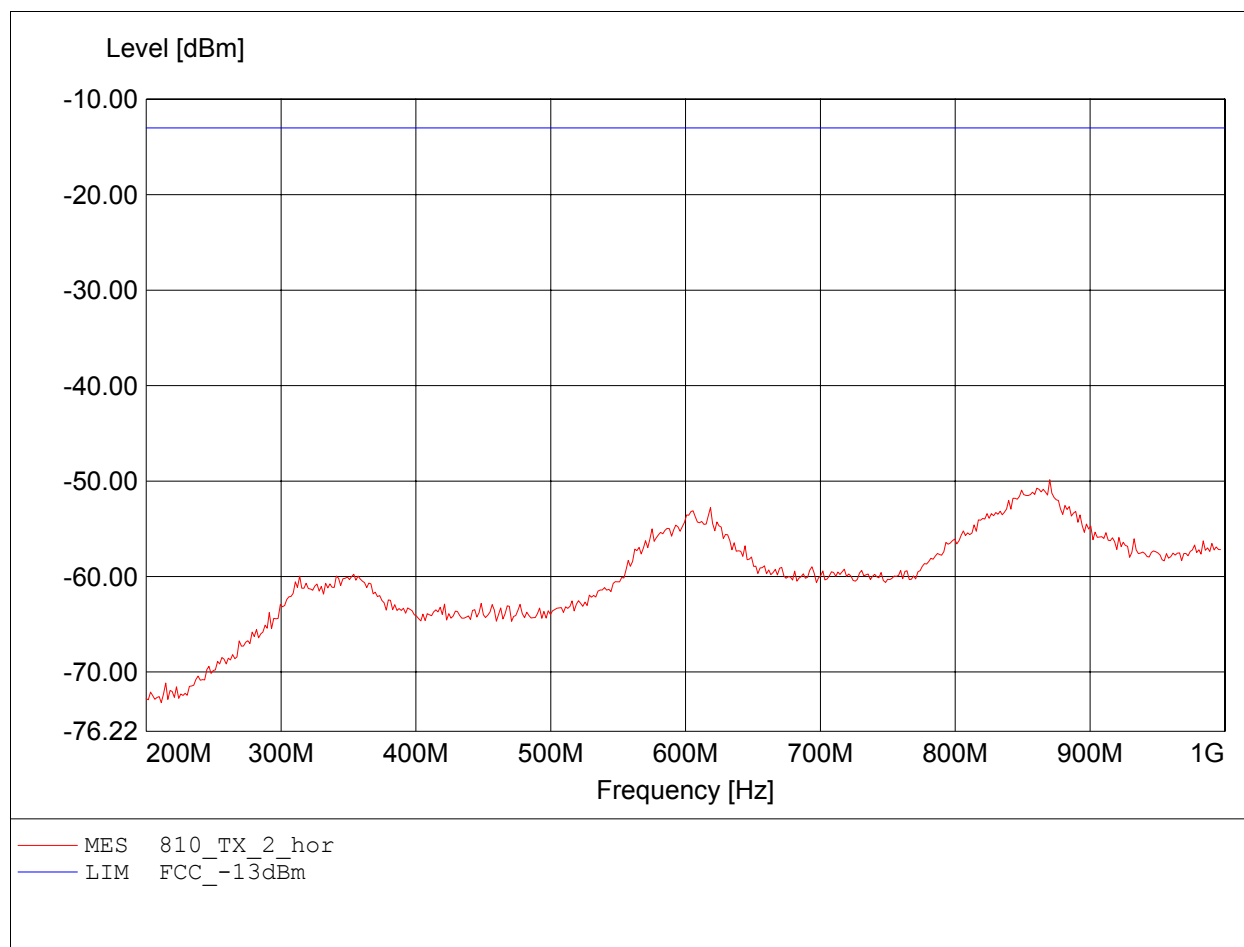
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 810
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 33.066MHz, Pmax: -64.03dBm, RBW: 100kHz



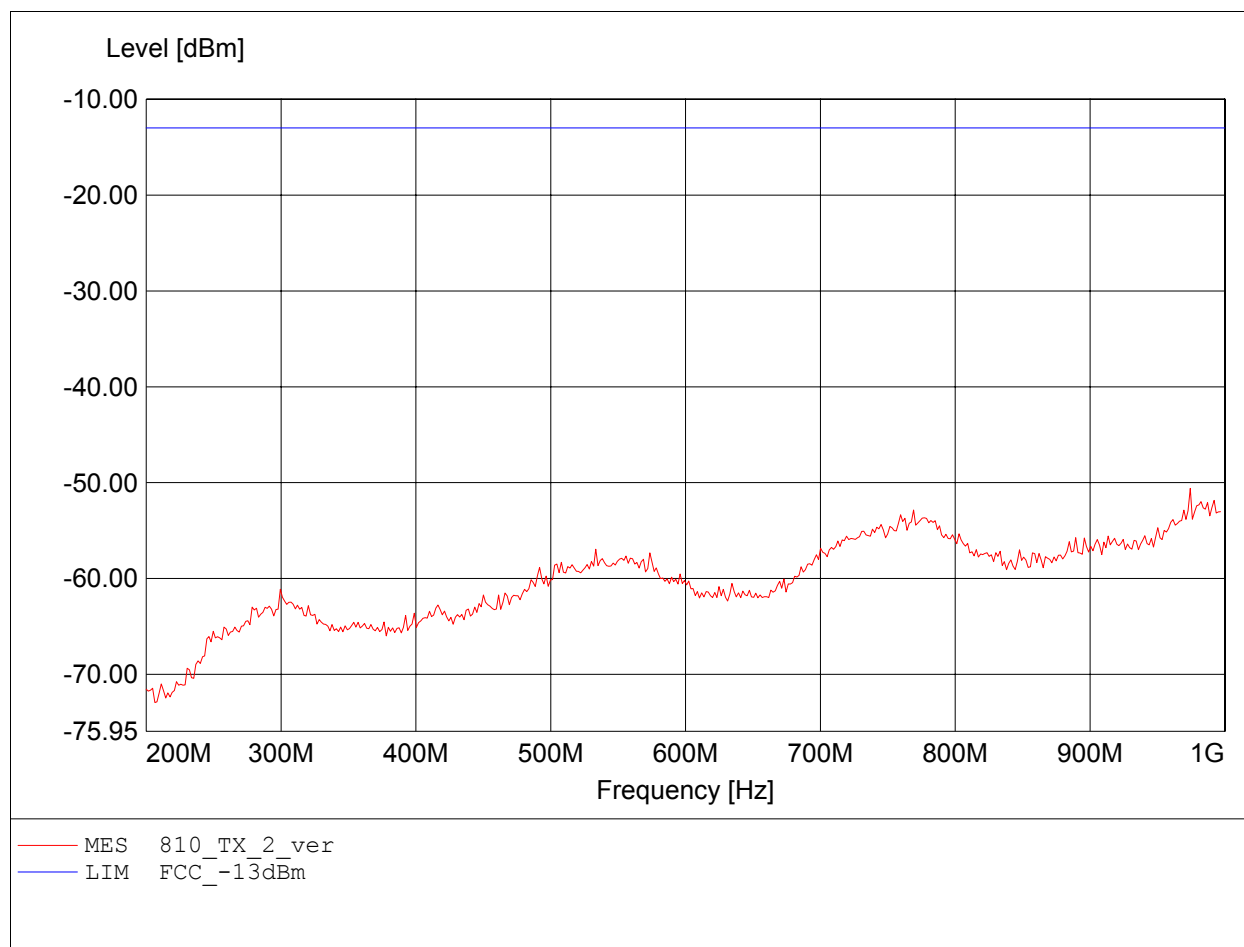
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 810
Comment 1: Dist.: 3m, Ant.: HL 223
Comment 2: Freq: 870.140MHz, Pmax: -49.85dBm, RBW: 100kHz



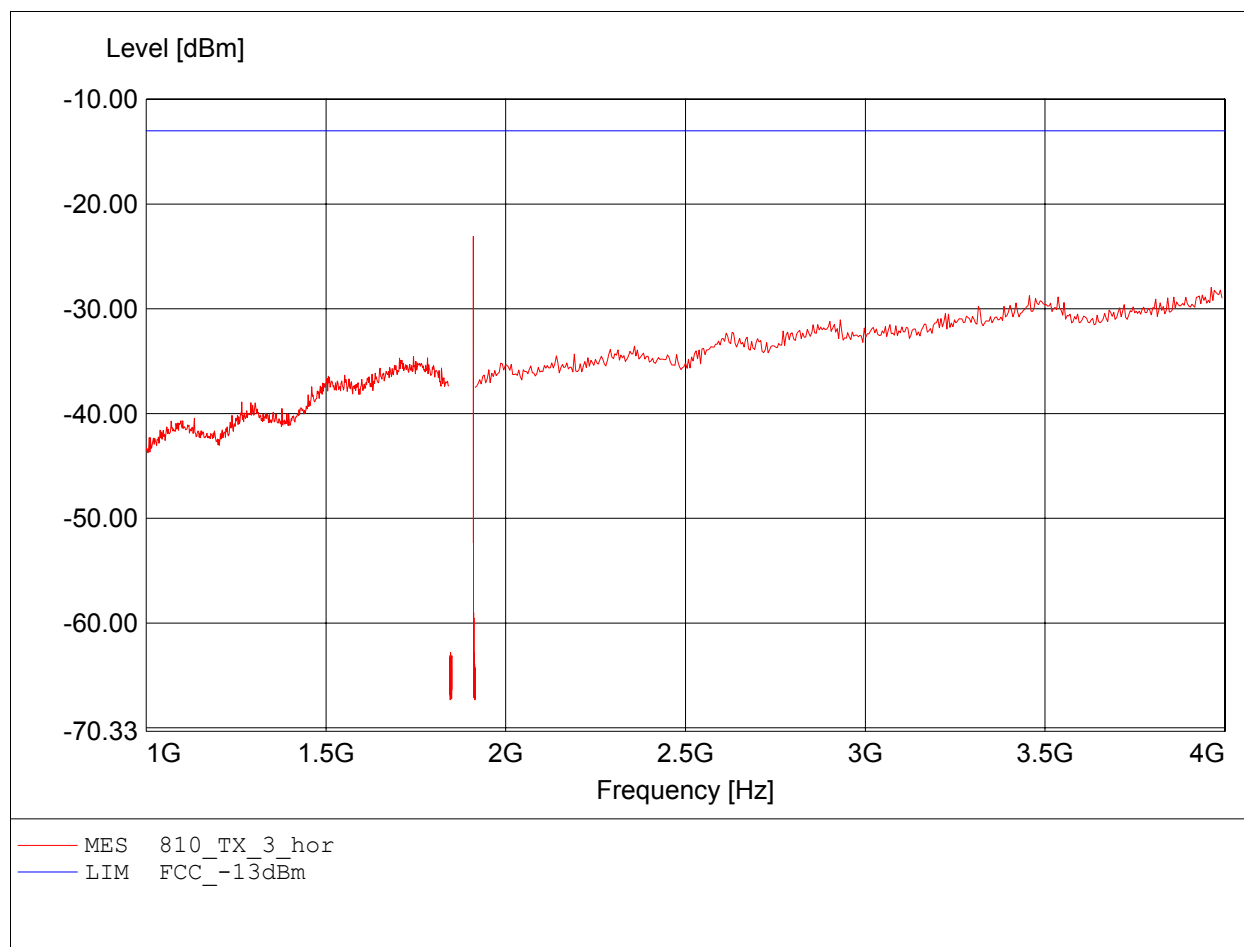
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 810
Comment 1: Dist.: 3m, Ant.: HL 223
Comment 2: Freq: 974.349MHz, Pmax: -50.60dBm, RBW: 100kHz



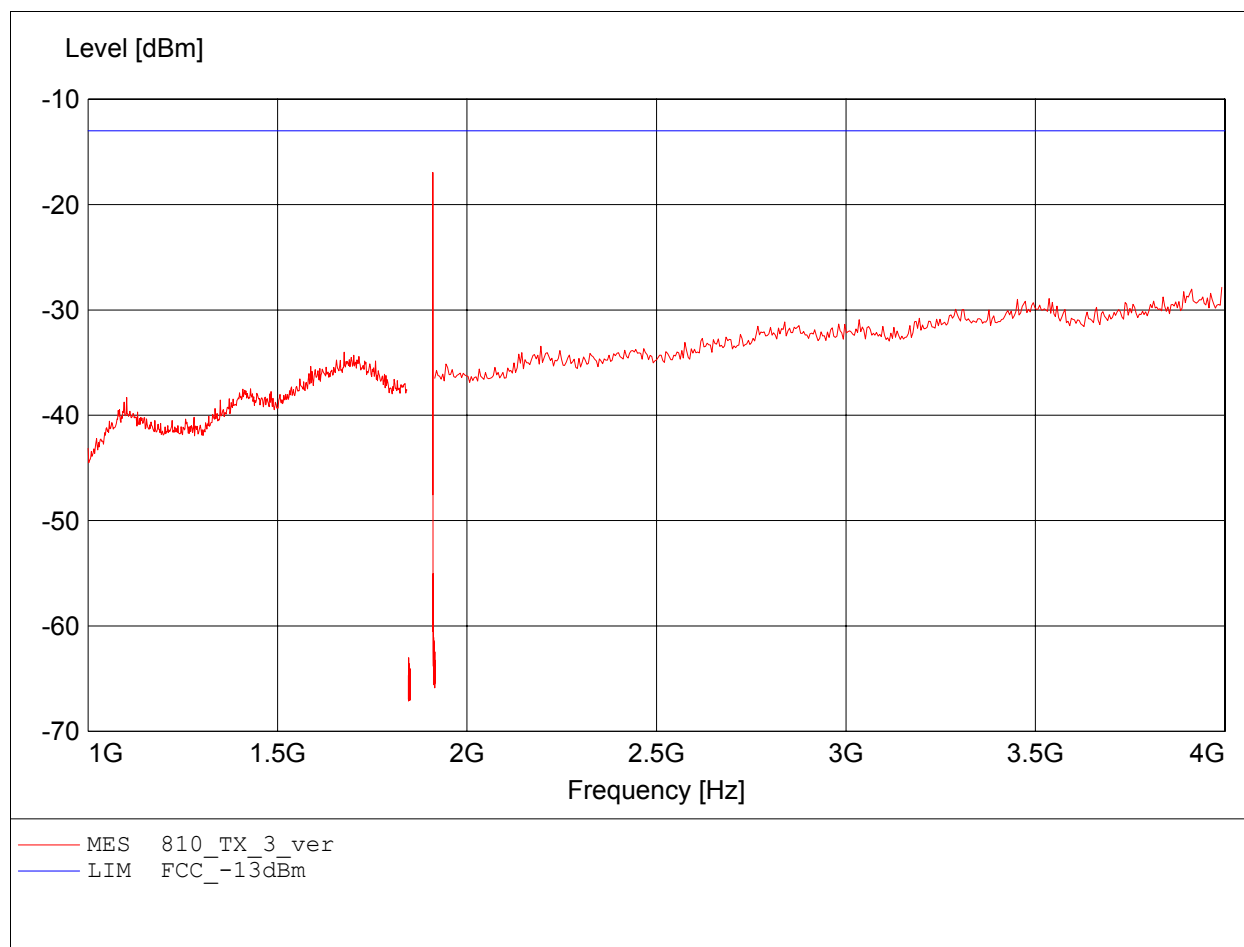
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 810
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq: 1.910GHz, Pmax: -23.10dBm, RBW: 1MHz/3kHz



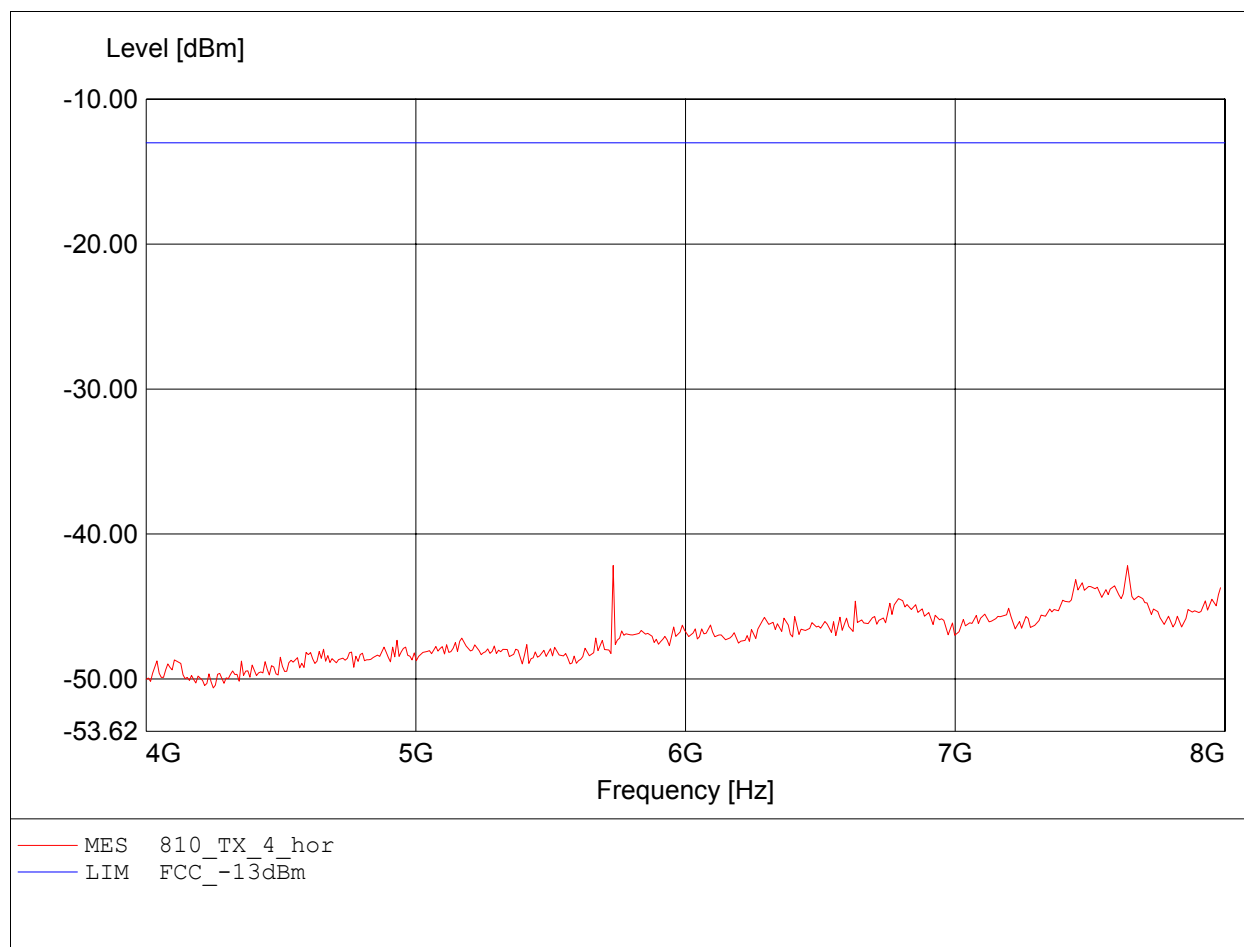
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 810
Comment 1: Dist.: 3m, Ant.: HL025
Comment 2: Freq: 1.910GHz, Pmax: -16.94dBm, RBW: 1MHz/3kHz



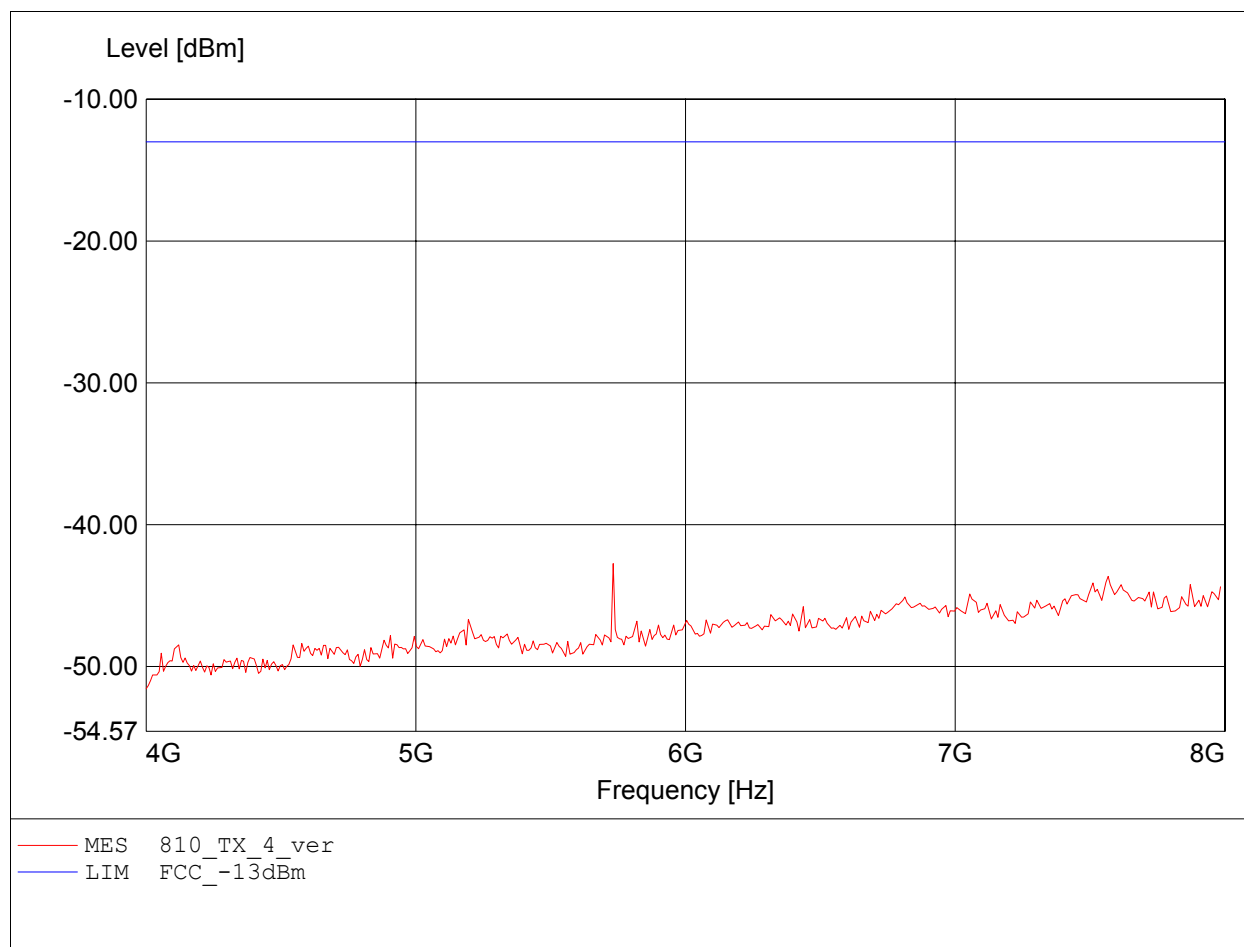
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 810
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 5.731GHz, Pmax: -42.18dBm, RBW: 1MHz



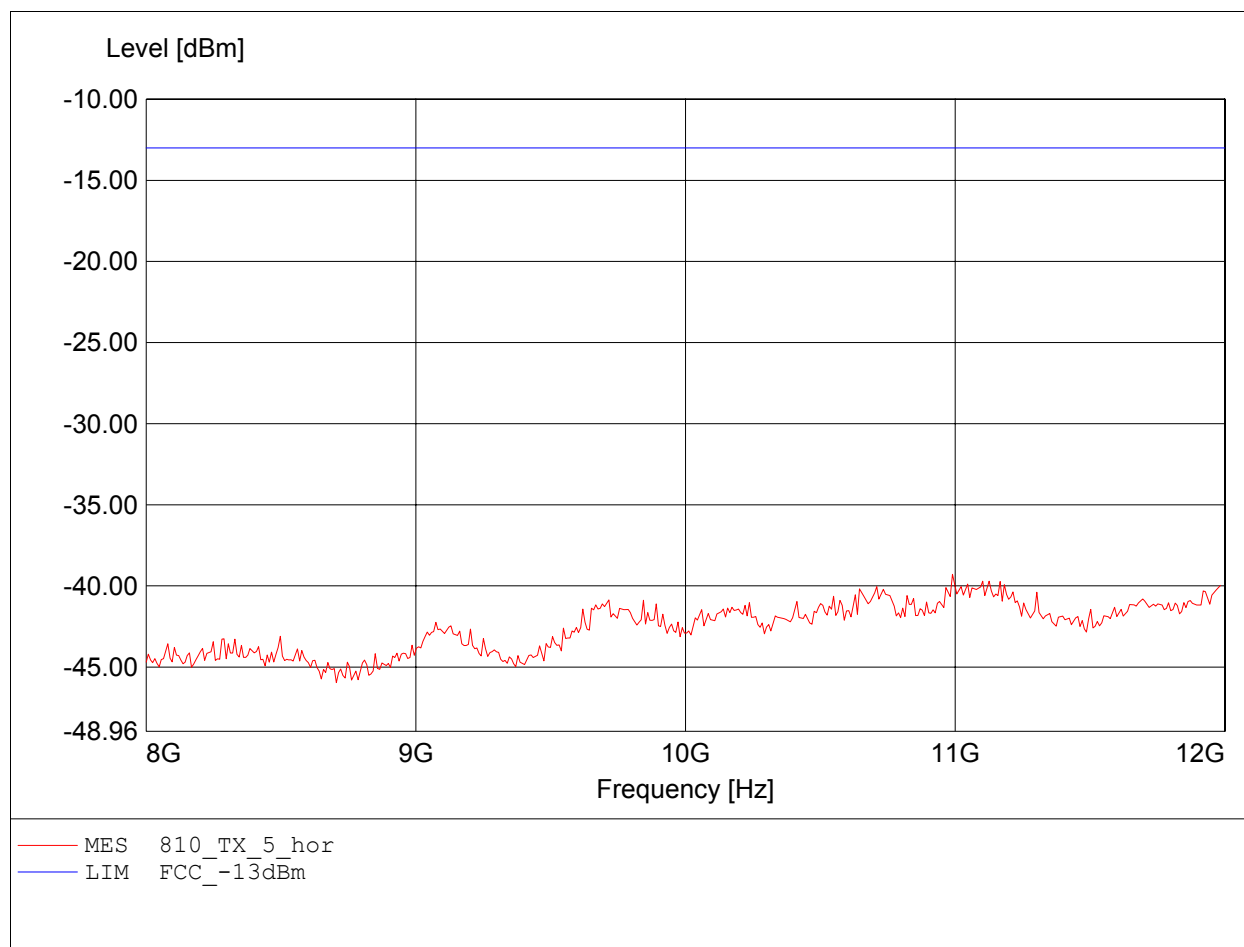
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 810
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 5.731GHz, Pmax: -42.75dBm, RBW: 1MHz



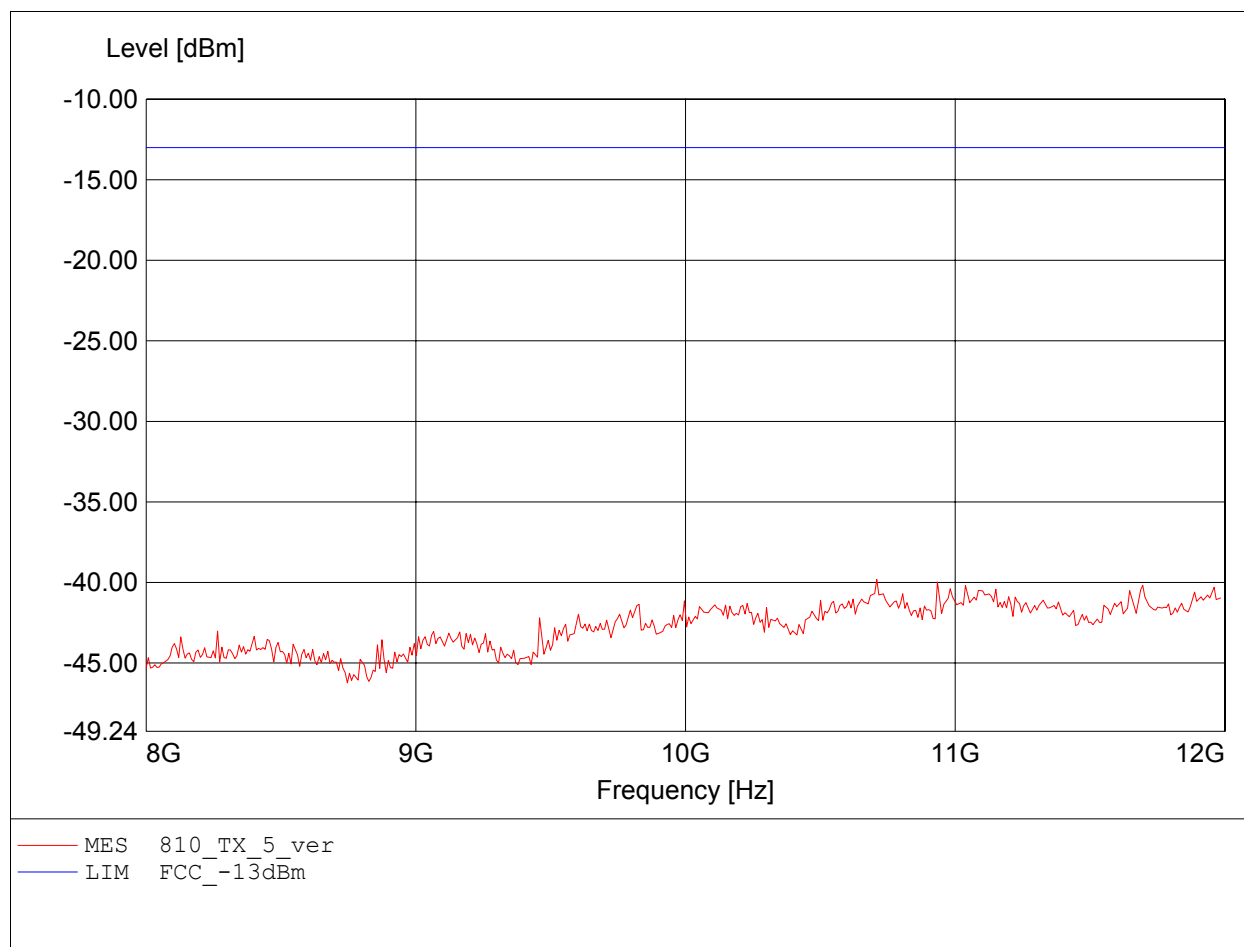
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 810
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 10.990GHz, Pmax: -39.28dBm, RBW: 1MHz



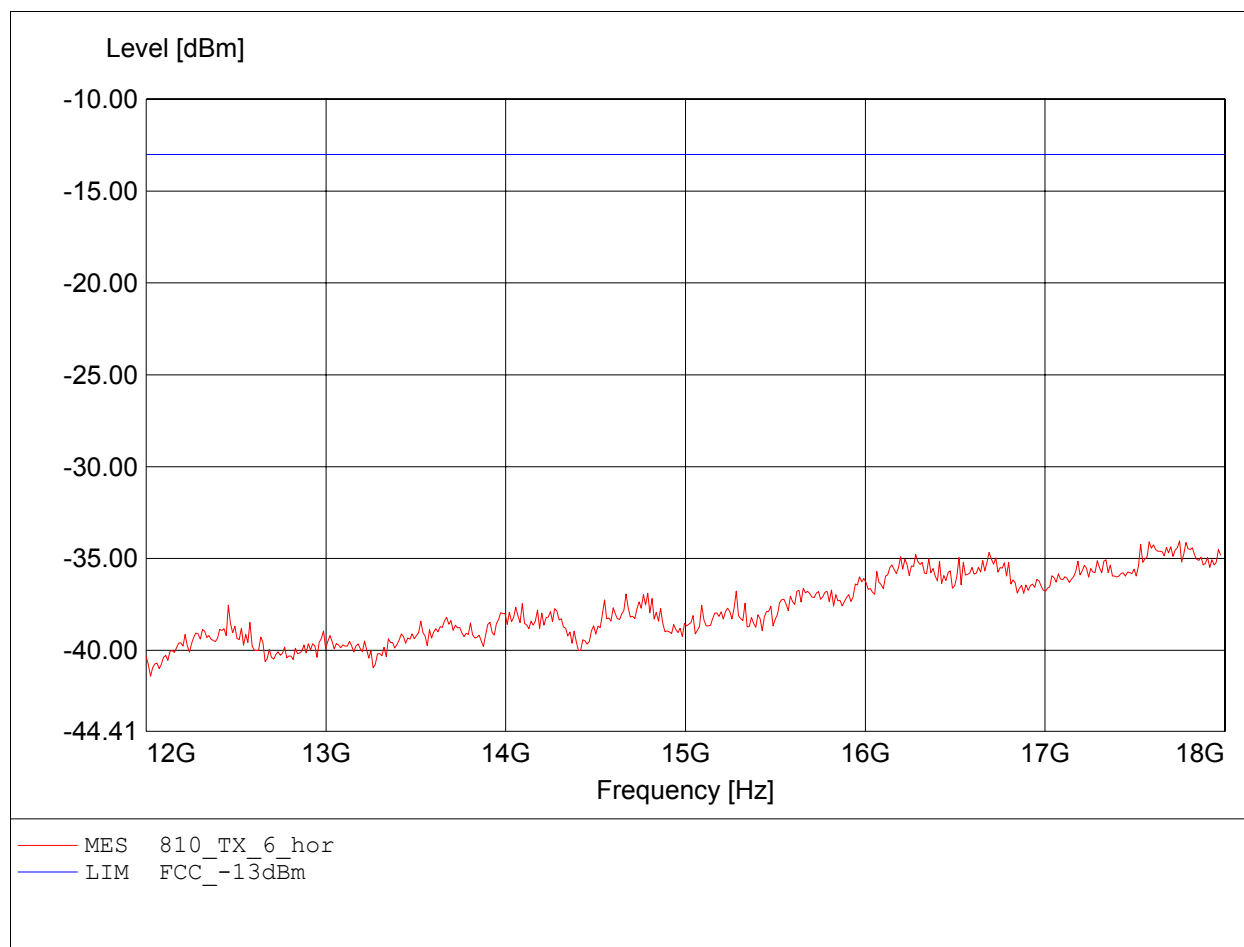
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 810
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 10.709GHz, Pmax: -39.80dBm, RBW: 1MHz



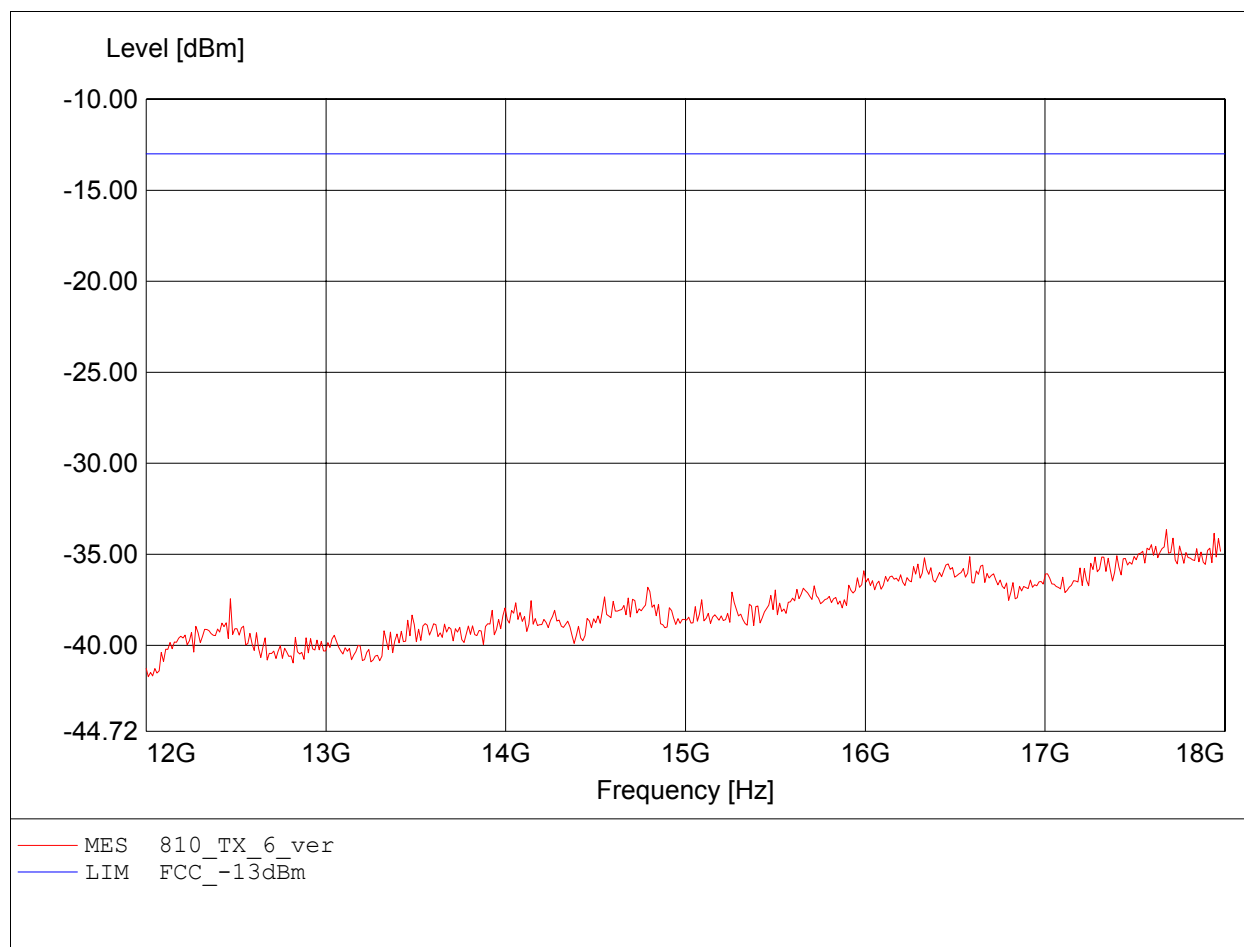
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 810
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 17.747GHz, Pmax: -34.04dBm, RBW: 1MHz



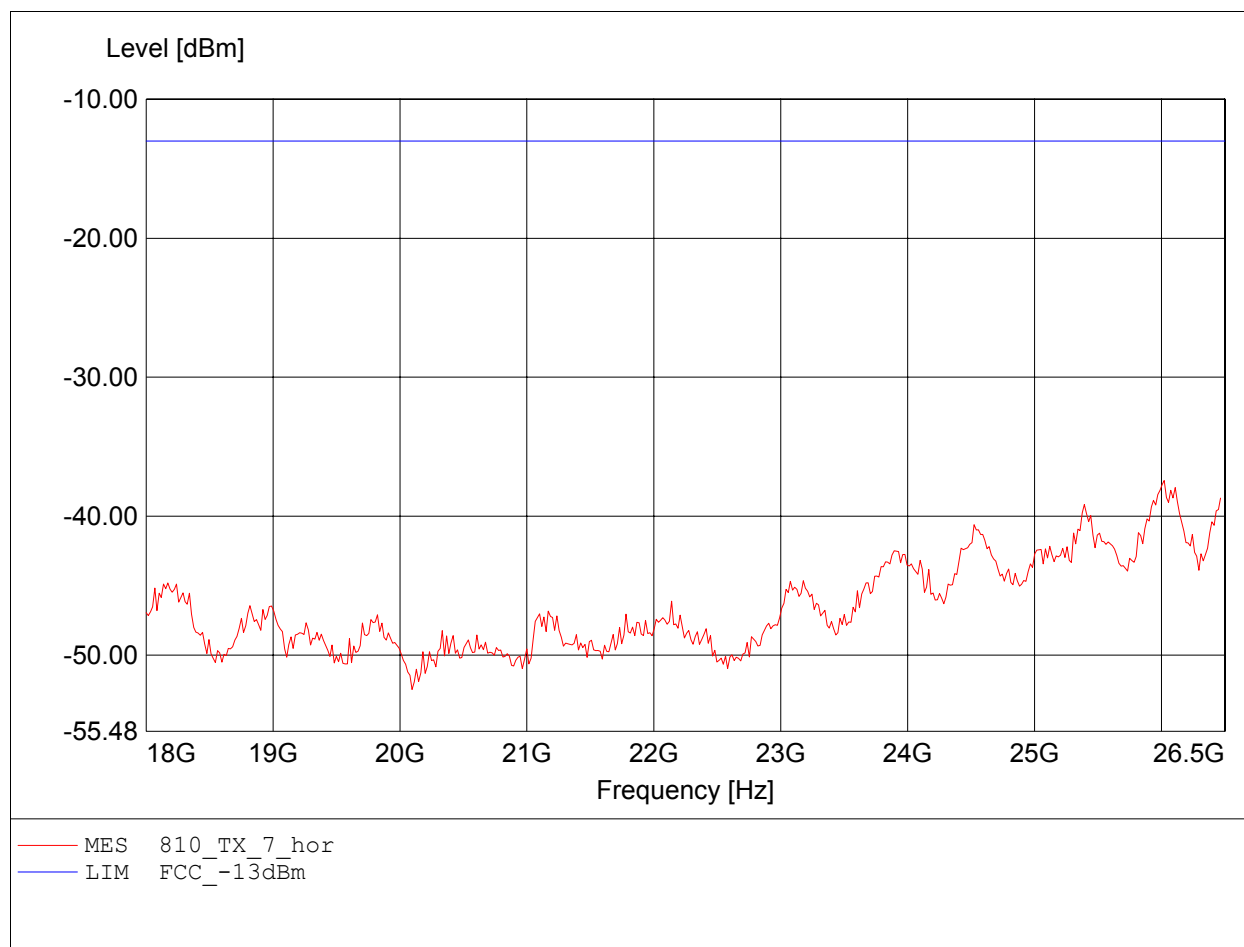
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 810
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2: Freq: 17.675GHz, Pmax: -33.64dBm, RBW: 1MHz



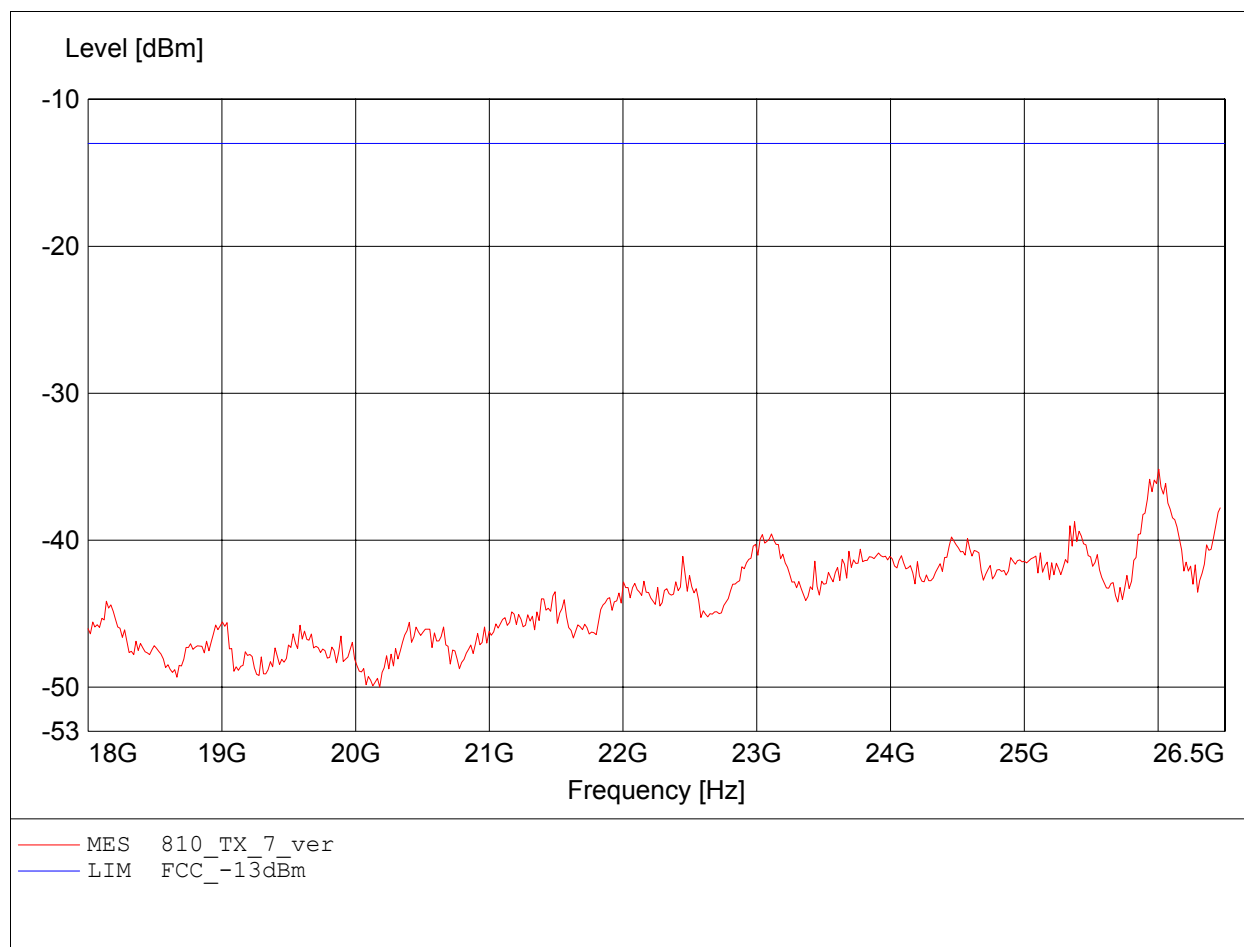
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 810
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 26.023GHz, Pmax: -37.43dBm, RBW: 1MHz



Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 810
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 26.006GHz, Pmax: -35.17dBm, RBW: 1MHz

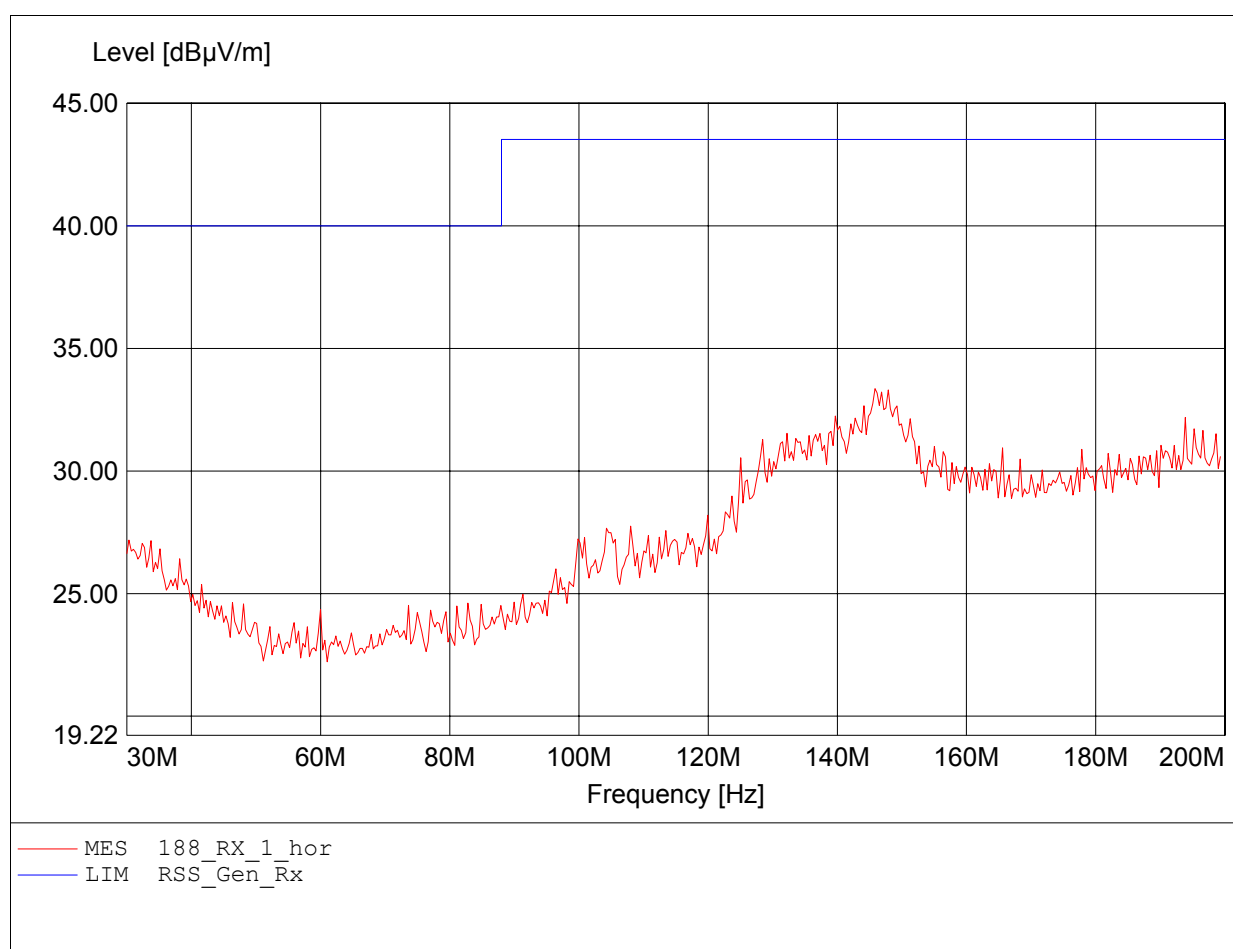


Annex D

Spurious emission radiated RX

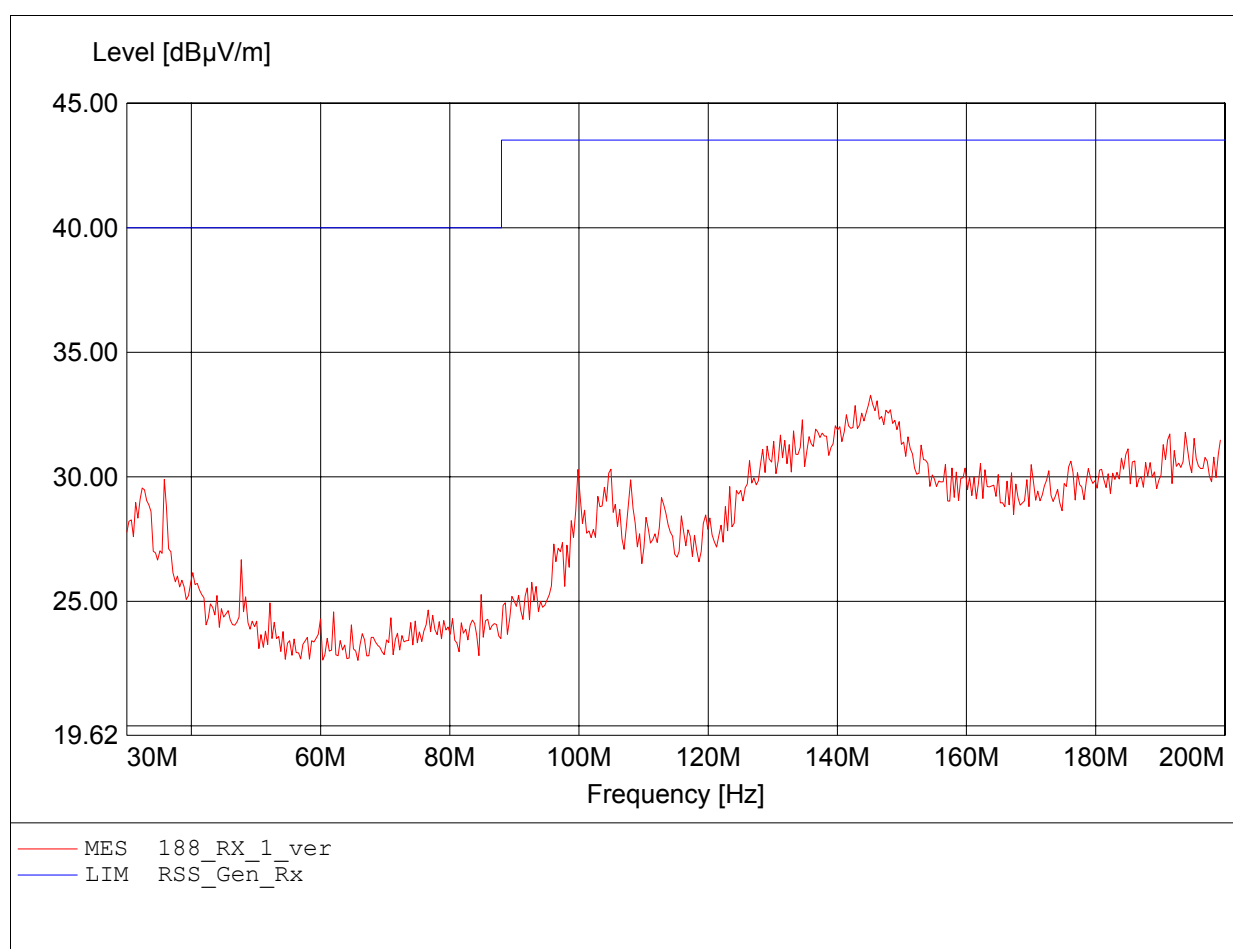
Field Strength under normal conditions
Standards Industry Canada, RSS-GEN

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 188
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq:145.832MHz Emax:33.36dBµV/m RBW: 100 kHz



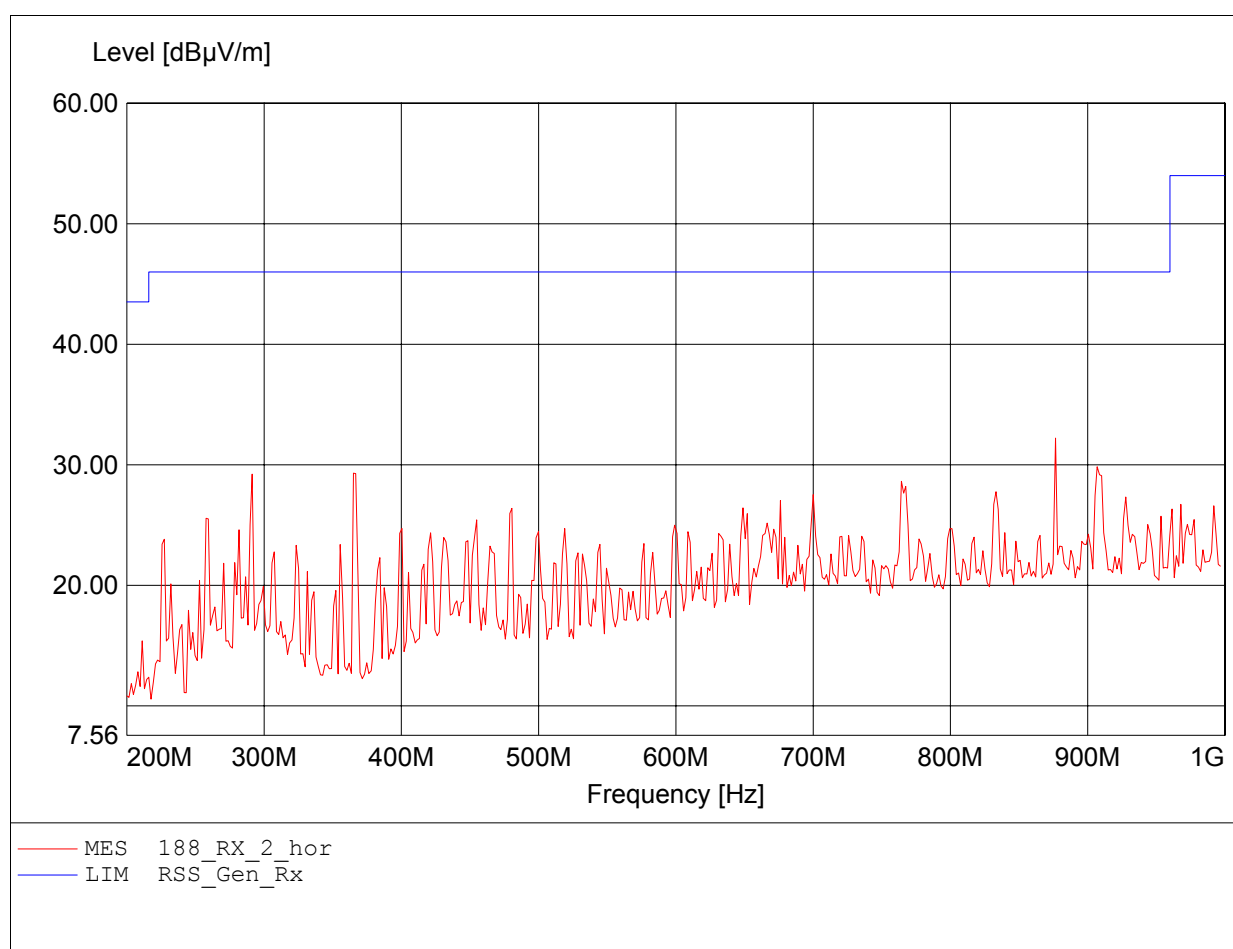
Field Strength under normal conditions
Standards Industry Canada, RSS-GEN

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 188
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq:145.150MHz Emax:33.27dBµV/m RBW: 100 kHz



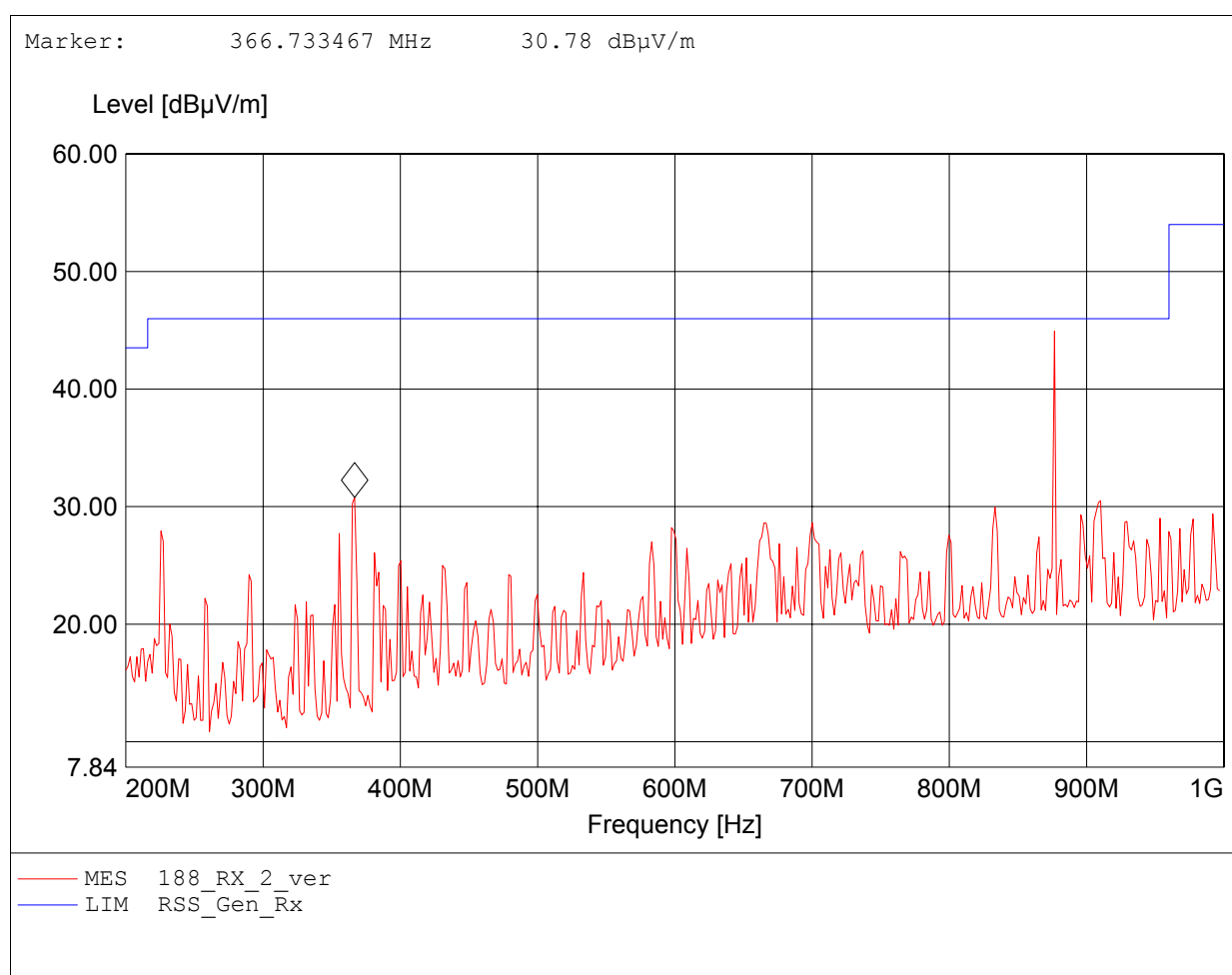
Field Strength under normal conditions
Standards Industry Canada, RSS-GEN

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 188
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Comment 2: Freq:876.553MHz Emax:32.22dBµV/m RBW: 100 kHz



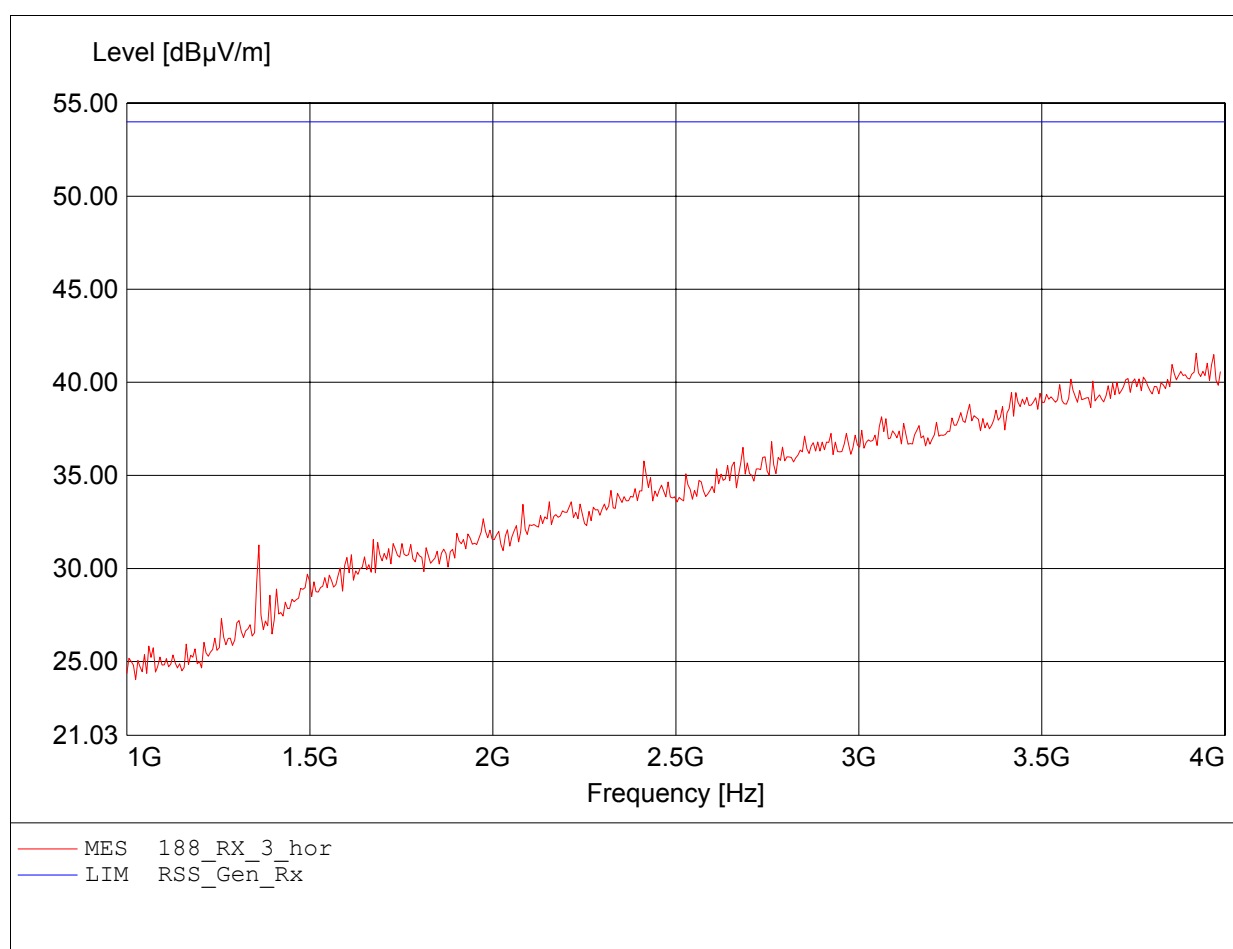
Field Strength under normal conditions
Standards Industry Canada, RSS-GEN

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 188
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Comment 2: Freq:876.553MHz Emax:44.93dBμV/m RBW: 100 kHz



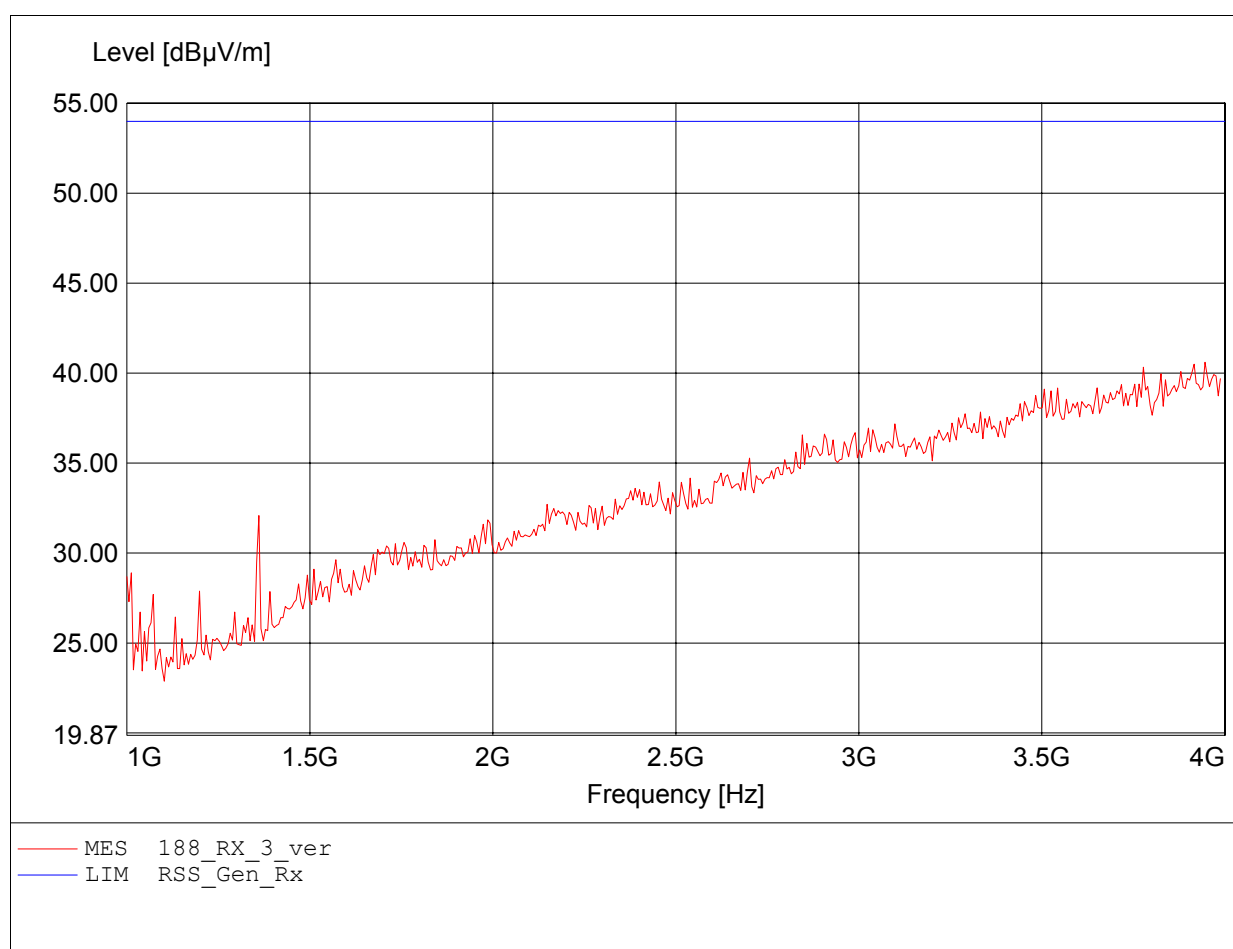
Field Strength under normal conditions
Standards Industry Canada, RSS-GEN

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 188
Comment 1: Dist.: 3m, Ant.: HL025, ampl.
Comment 2: Freq:3.922GHz Emax:41.57dBµV/m RBW: 1 MHz



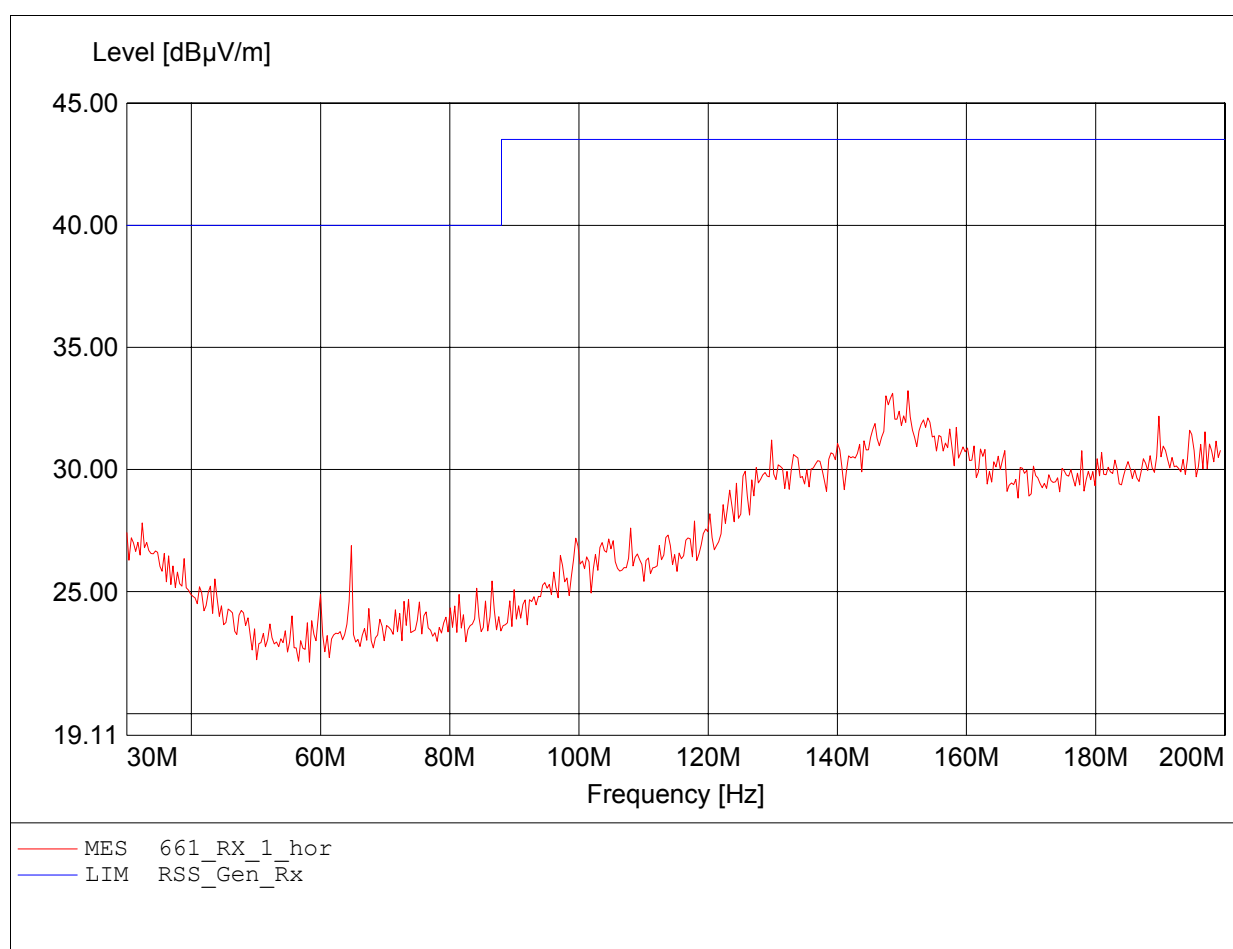
Field Strength under normal conditions
Standards Industry Canada, RSS-GEN

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 188
Comment 1: Dist.: 3m, Ant.: HL025, ampl.
Comment 2: Freq:3.946GHz Emax:40.61dBμV/m RBW: 1 MHz



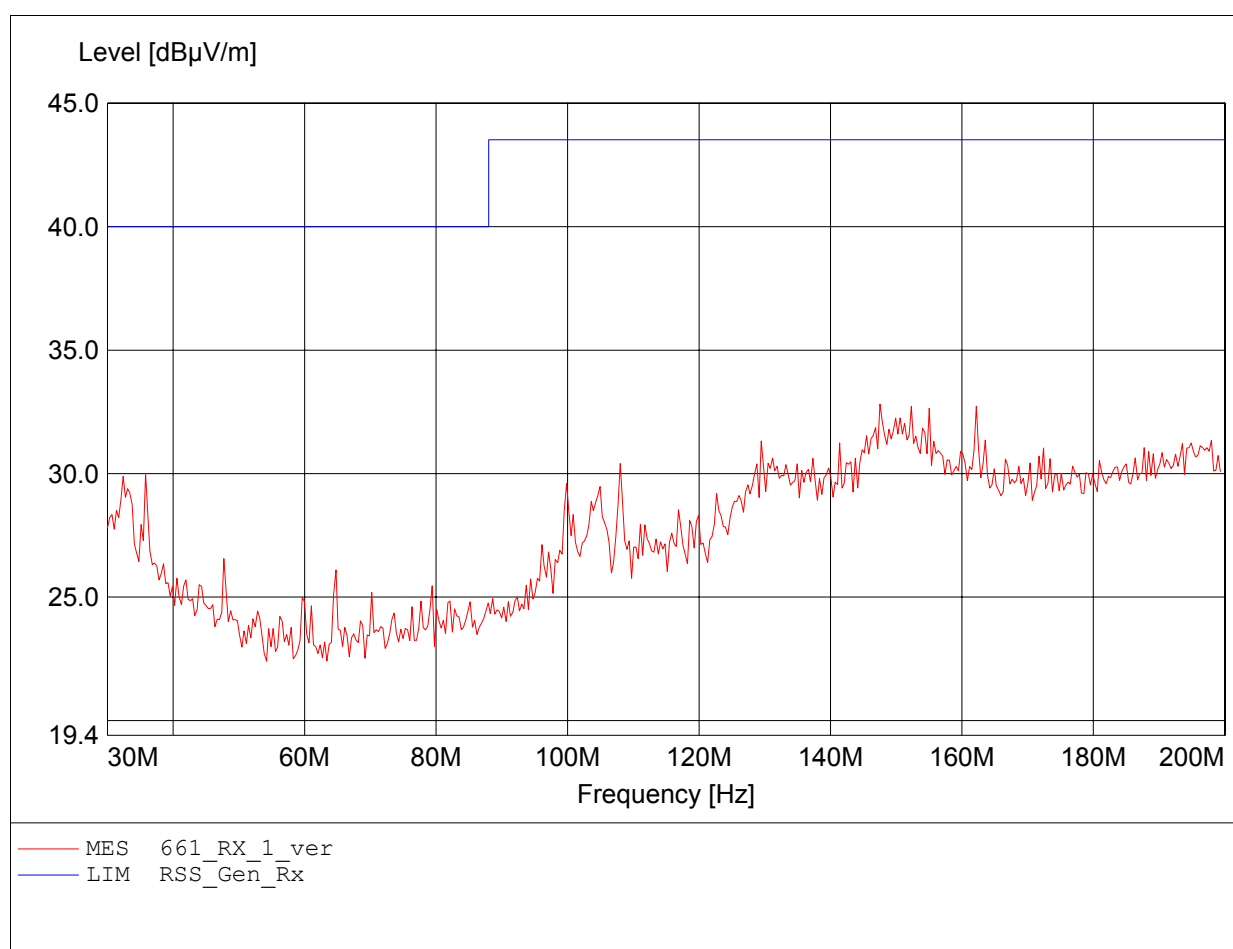
Field Strength under normal conditions
Standards Industry Canada, RSS-GEN

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 661
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq:150.942MHz Emax:33.23dBµV/m RBW: 100 kHz



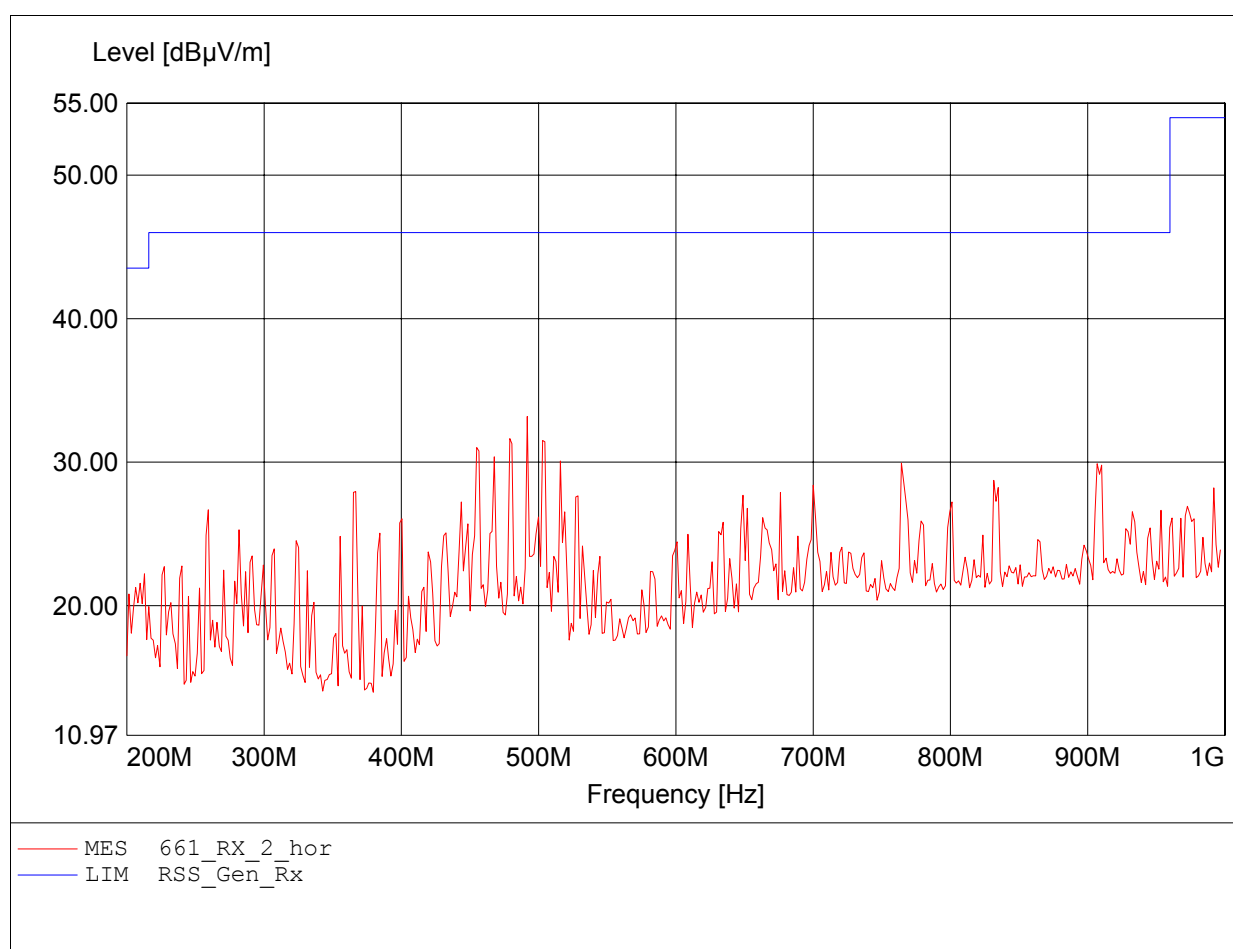
Field Strength under normal conditions
Standards Industry Canada, RSS-GEN

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 661
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq:147.535MHz Emax:32.81dBµV/m RBW: 100 kHz



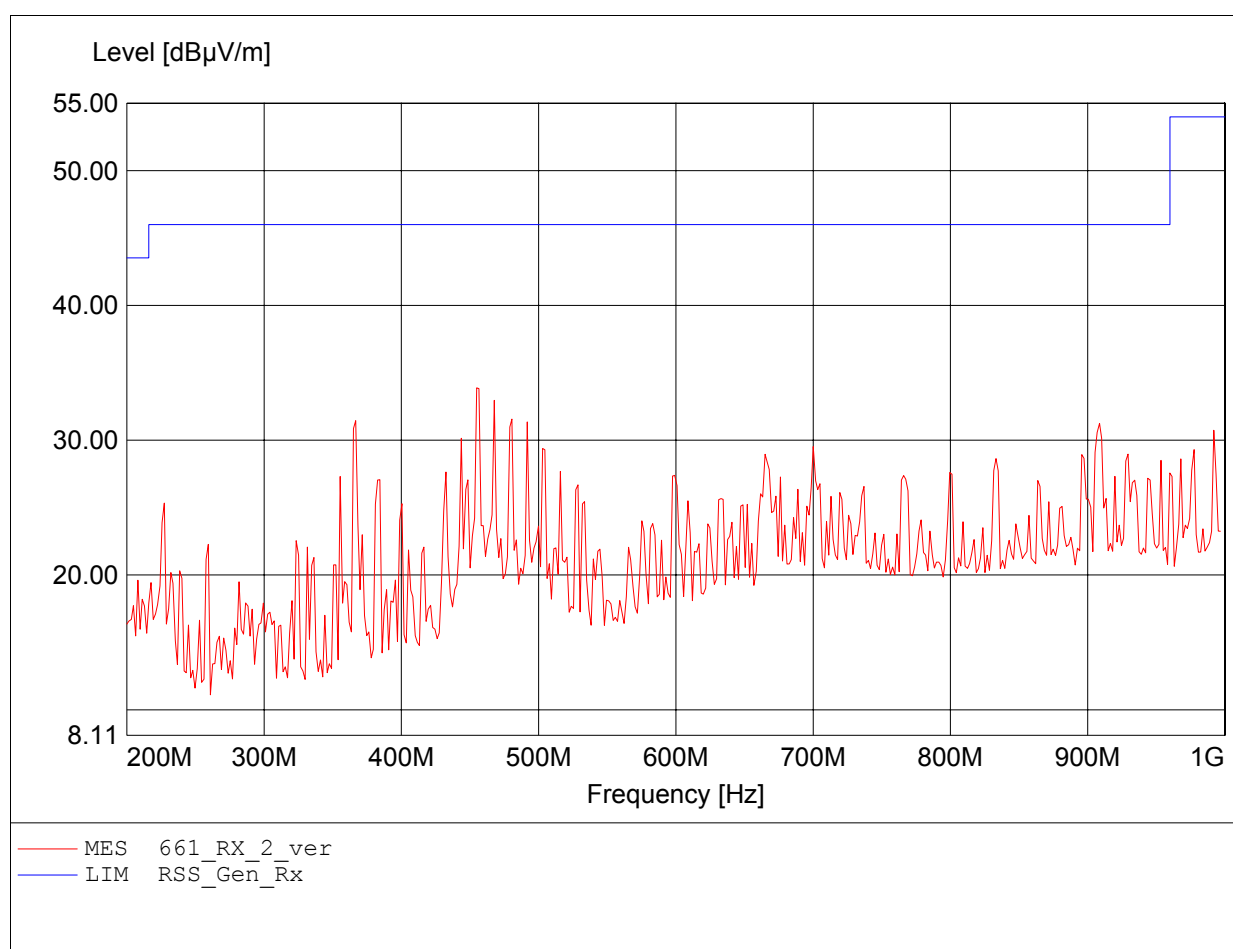
Field Strength under normal conditions
Standards Industry Canada, RSS-GEN

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 661
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Comment 2: Freq:491.784MHz Emax:33.18dBμV/m RBW: 100 kHz



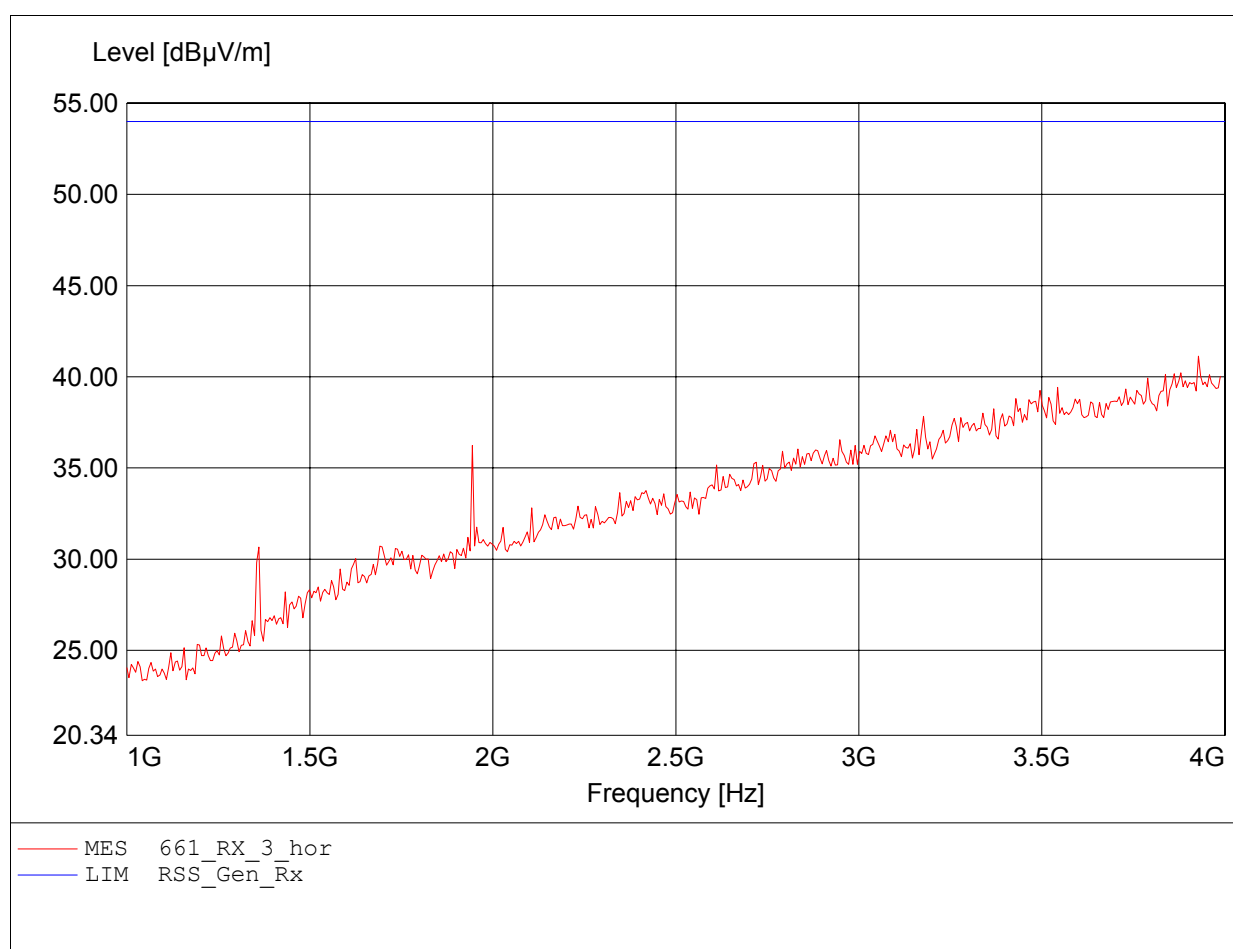
Field Strength under normal conditions
Standards Industry Canada, RSS-GEN

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 661
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Comment 2: Freq:454.910MHz Emax:33.89dBμV/m RBW: 100 kHz



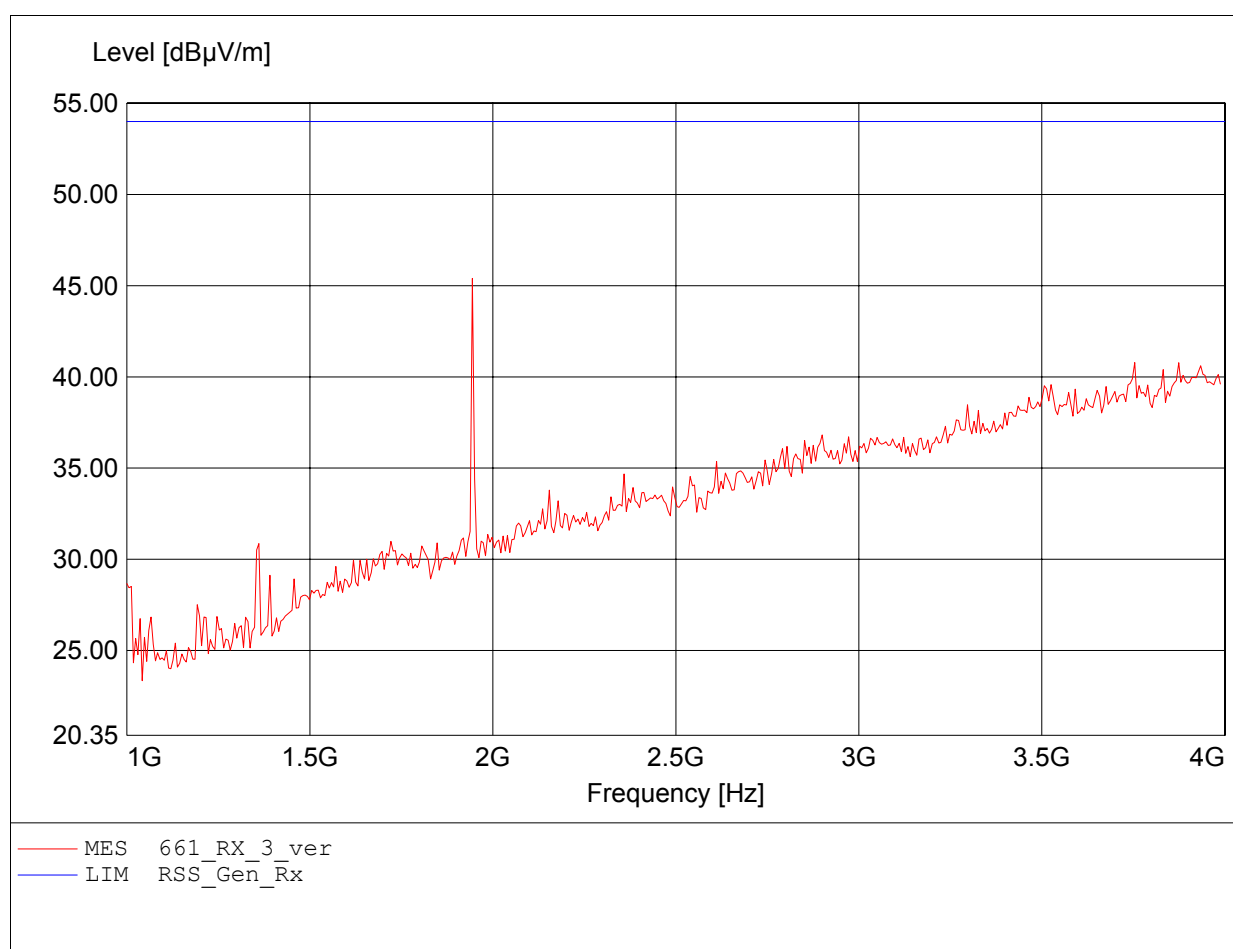
Field Strength under normal conditions
Standards Industry Canada, RSS-GEN

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 661
Comment 1: Dist.: 3m, Ant.: HL025, ampl.
Comment 2: Freq:3.928GHz Emax:41.13dBμV/m RBW: 1 MHz



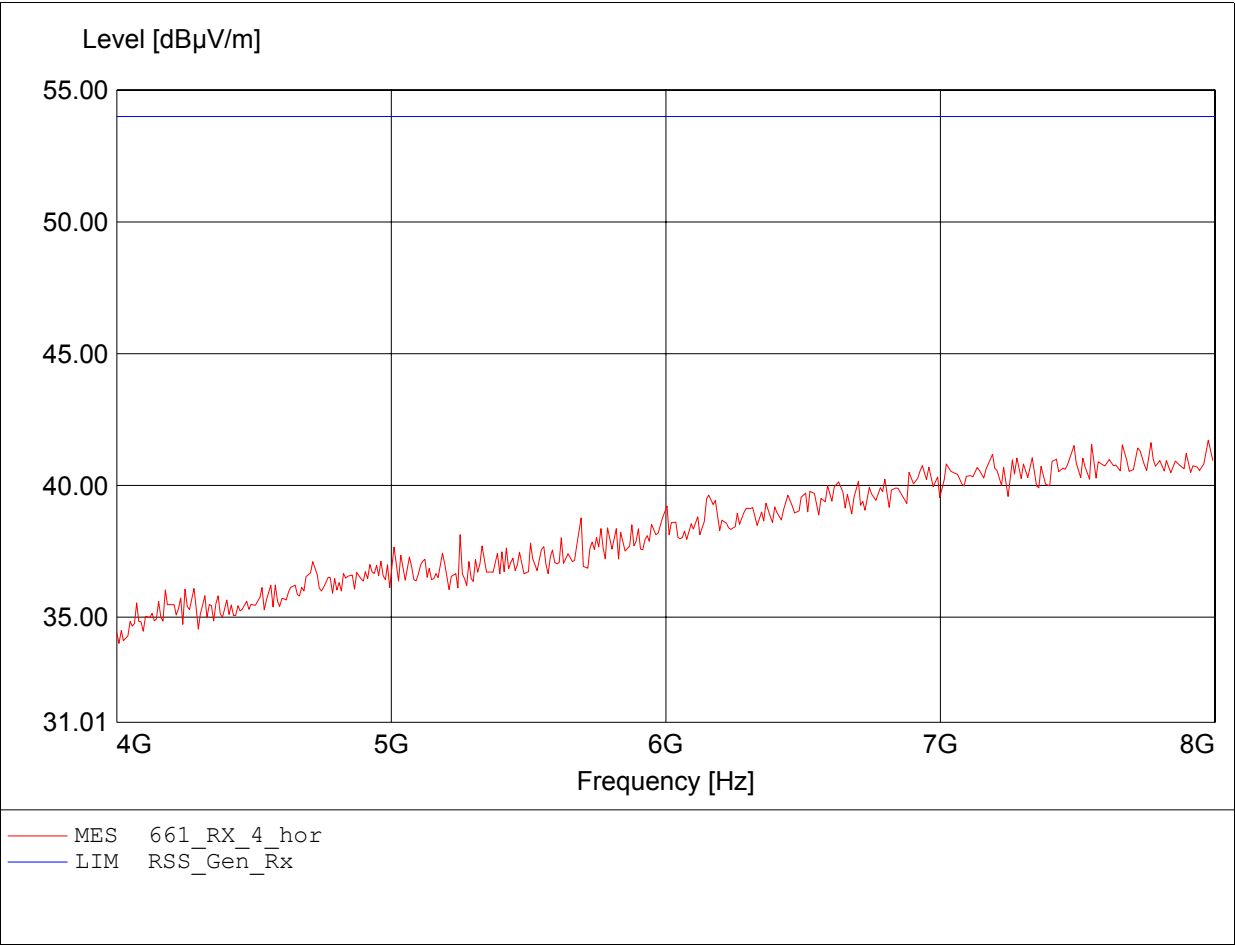
Field Strength under normal conditions
Standards Industry Canada, RSS-GEN

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 661
Comment 1: Dist.: 3m, Ant.: HL025, ampl.
Comment 2: Freq:1.944GHz Emax:45.40dBμV/m RBW: 1 MHz



Field Strength under normal conditions
Standards Industry Canada, RSS-GEN

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 661
Comment 1: Dist.: 3m, Ant.: HL025, ampl.
Comment 2: Freq:7.976GHz Emax:41.72dBµV/m RBW: 1 MHz



Field Strength under normal conditions
Standards Industry Canada, RSS-GEN

Approval Holder: Falcom Wireless Communications GmbH
EUT: GSM/GPRS-GPS Personal tracker
Model : MAMBO2 / (S-1)
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik
Test Conditions 1: 23°C / Unom.: 3.8 V DC (USB-charging)
Test Conditions 2: Freq. / CH: 661
Comment 1: Dist.: 3m, Ant.: HL025, ampl.
Comment 2: Freq:7.663GHz Emax:43.08dBµV/m RBW: 1 MHz

