

§15.247(a)(2) – 20dB Bandwidth (Head Set)

Res. Bandwidth = 100 kHz (7dB/div)
 Vid. BW = 100 kHz
 Span = 3.0MHz
 Ref. Level - 21.5 dBm
 Sweep 5ms
 (see attached spectrum plots)

FREQ (MHz)	Channel	20dB Bandwidth (MHz)
2401	1	.965
2439	44	.983
2479	89	.977

Table 3. 20dB Bandwidth measurements

Minimum Standard – The transmitter shall have a minimum 6dB bandwidth of 500Hz (0.5 MHz).
 These are radiated measurements.

REMARKS:

PASS

PCTEST™ PT. 15.247 REPORT	 EVALUATION REPORT				Reviewed By: Quality Manager
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§15.247(a)(2) – 20dB Bandwidth (Base)

Res. Bandwidth = 100 kHz (7dB/div)
 Vid. BW = 100 kHz
 Span = 3.0 MHz
 Ref. Level - 21.5 dBm
 Sweep 10ms
 (see attached spectrum plots)

FREQ (MHz)	Channel	20dB Bandwidth (MHz)
2401	1	.959
2439	44	.938
2479	89	.977

Table 3. 20dB Bandwidth measurements

Minimum Standard – The transmitter shall have a minimum 6dB bandwidth of 500Hz (0.5 MHz).
 These are radiated measurements.

REMARKS:

PASS

RADIATED Measurements (Fundamental & Harmonics) (Head Set)

A. Transmitter Portion

Distance of Measurements: 3 meters

Channel: 45

FREQ. (MHz)	Level* (dBm)	AFCL (dB)	POL (H/V)	DET QP/AVG	F/S (μ V/m)	F/S (dB μ V/m)	Margin (dB)
2401	- 20.9	31.7	V	Peak	778933	117.8	n/a
4802	- 102.8	39.4	V	Peak	151.182	43.59	- 10.41
7203	- 115.0	46.4	V	Peak	83.3681	38.42	- 15.58
9604	< - 130						
12005	< - 130						

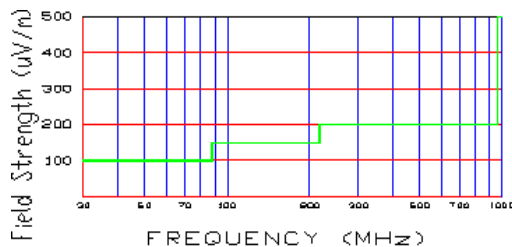


Figure 10. Restricted band harmonics and spurious limits.

Above 1 GHz limit is 500 uV/m (54dBu/m)

NOTES:

1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in table 2. (note: * Restricted Band)
2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.
5. The antenna is manipulated through typical positions, polarity and length during the tests.
6. The EUT is supplied with nominal AC voltage or/and a new/fully recharged battery.
7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
8. < - 130 are below the analyzer floor level.

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RADIATED Measurements (Fundamental & Harmonics) (Base) (Whip Antenna)

A. Transmitter Portion

Distance of Measurements: 3 meters

Channel: 1

FREQ. (MHz)	Level* (dBm)	AFCL (dB)	POL (H/V)	DET QP/AVG	F/S (μ V/m)	F/S (dB μ V/m)	Margin (dB)
2401	- 24.0	31.7	V	Peak	543250	114.7	n/a
4802	- 106.0	39.4	V	Peak	104.592	40.4	- 13.61
7203	- 120.0	46.4	V	Peak	46.8813	33.4	- 20.6
9604	< - 130						
12005	< - 130						

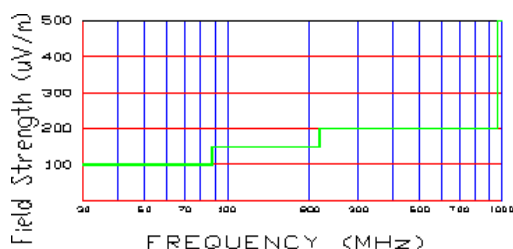


Figure 10. Restricted band harmonics and spurious limits.

Above 1 GHz limit is 500 uV/m (54dBu/m)

NOTES:

1. All harmonics in the restricted bands specified in §15.205 are below the limit shown in table 2. (note: * Restricted Band)
2. All harmonics/spurs are at least 20 dB below the highest emission in the authorized band using RBW = 100kHz
3. Average Measurements > 1GHz using RBW = 1 MHz VBW = 10 Hz
4. The peak emissions above 1 GHz are not more than 20 dB above the average limit.
5. The antenna is manipulated through typical positions, polarity and length during the tests.
6. The EUT is supplied with nominal AC voltage or/and a new/fully recharged battery.
7. The spectrum is measured from 9kHz to the 10th harmonic and the worst-case emissions are reported.
8. < - 130 are below the analyzer floor level.

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