



Nemko Spa
Via del Carroccio, 4
I 20853 Biassono (Italy)

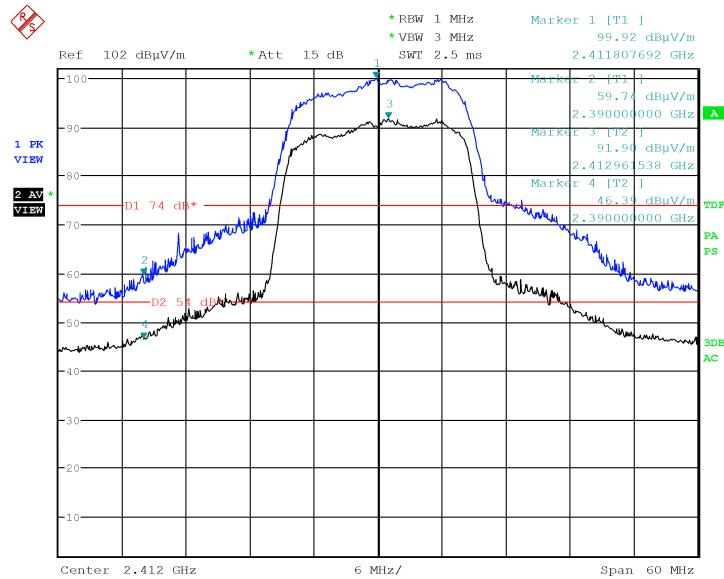
Section 8: Testing data

Product: Video door phone with wireless module WIFI,1717/32

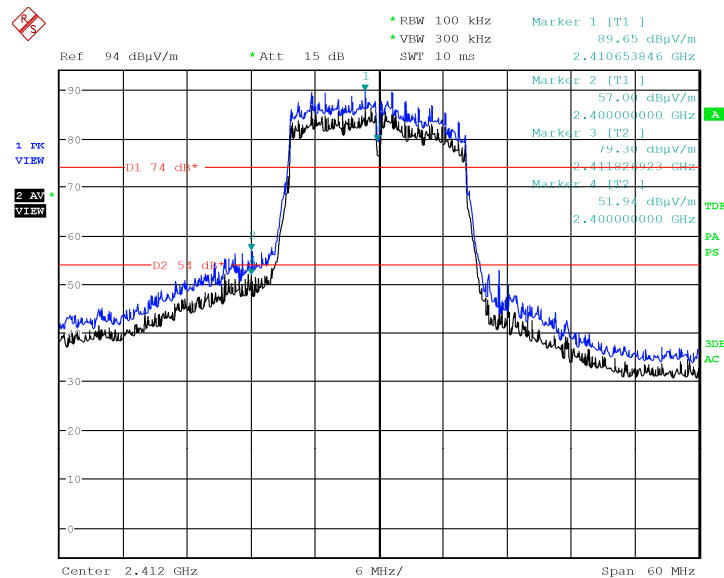
Specification: FCC Part 15.247

Test data, continued

6.10.5 Restricted-band band-edge measurements protocol 802.11g, horizontal



6.10.4 Authorized-band band-edge measurements (relative method)





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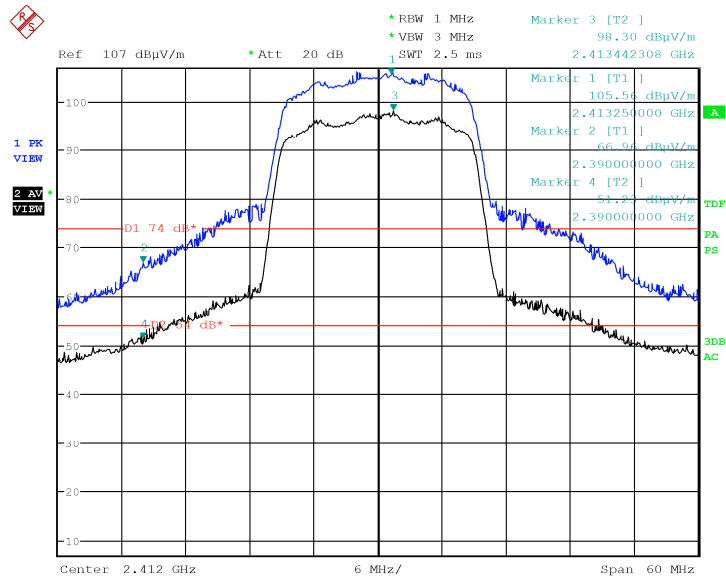
Section 8: Testing data

Product: Video door phone with wireless module WIFI,1717/32

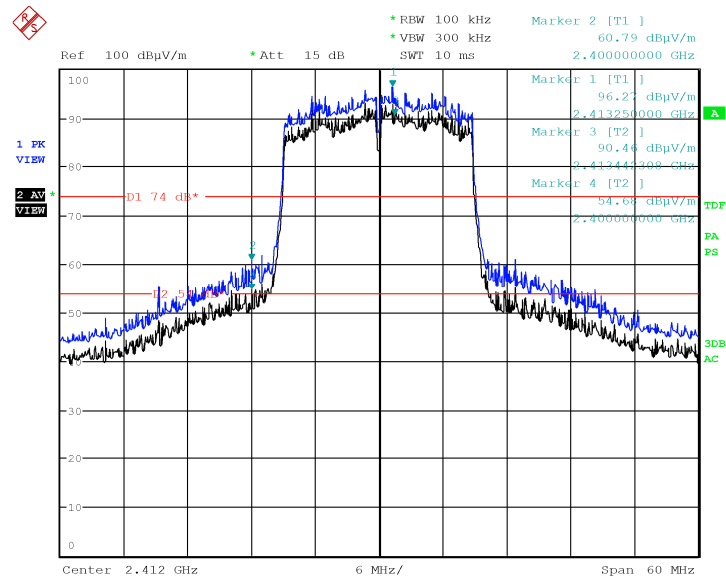
Specification: FCC Part 15.247

Test data, continued

6.10.5 Restricted-band band-edge measurements protocol 802.11n, vertical



6.10.4 Authorized-band band-edge measurements (relative method)





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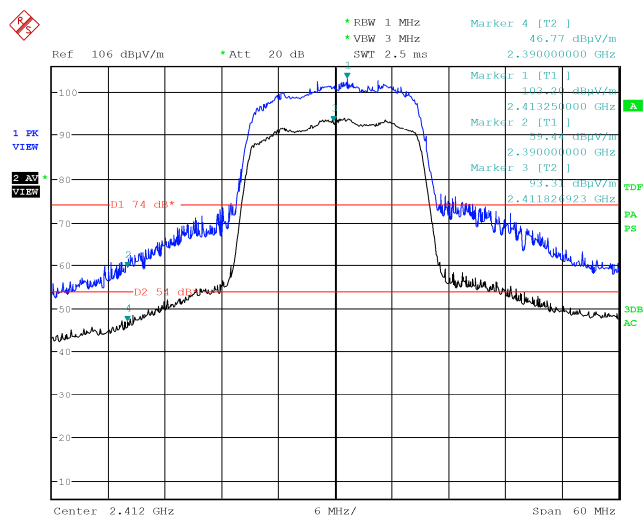
Section 8: Testing data

Product: Video door phone with wireless module WIFI,1717/32

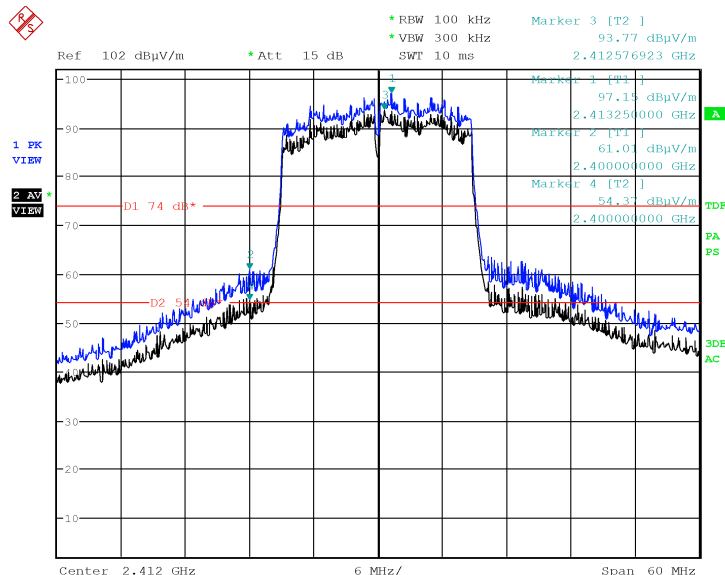
Specification: FCC Part 15.247

Test data, continued

6.10.5 Restricted-band band-edge measurements protocol 802.11n, horizontal



6.10.4 Authorized-band band-edge measurements (relative method)





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Section 8: Testing data

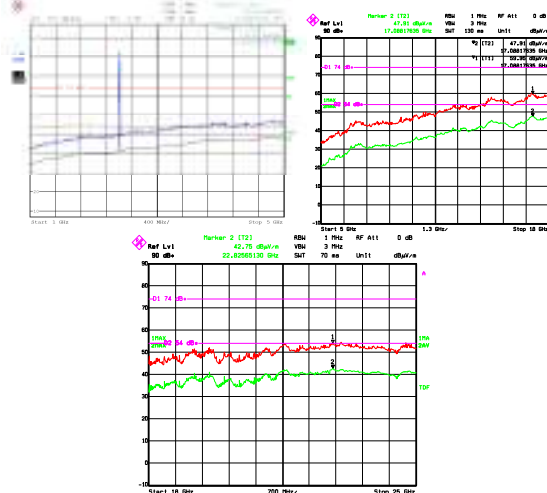
Product: Video door phone with wireless module WIFI,1717/32

Specification: FCC Part 15.247

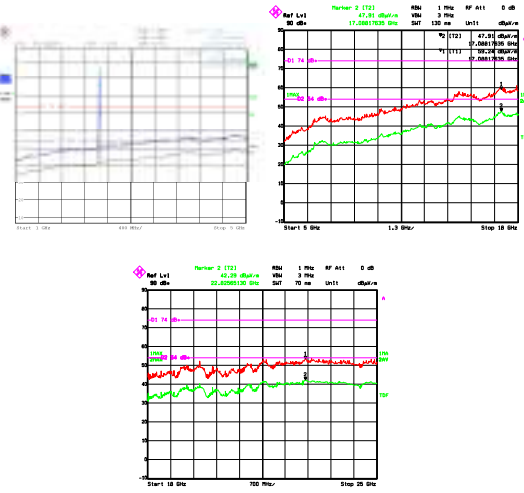
Test data, continued

Radiated measurement 802.11b horizontal polarization

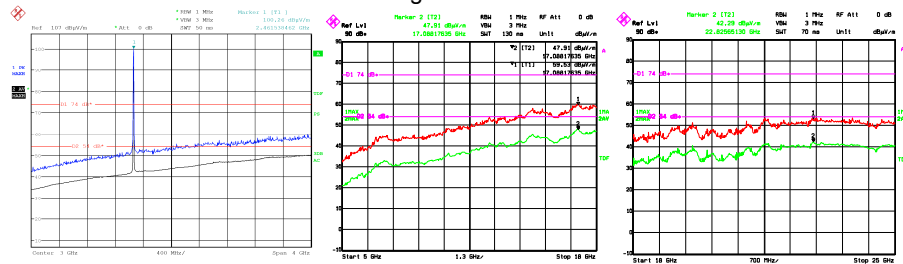
Low channel



Mid channel



High channel



Freq. (MHz)	Pol. V/H	Peak field strength (dBμV/m)	Correction (dB)	Peak limit (dBμV/m)	Peak margin (dB)	Duty cycle corr. (dB)	Avg field strength (dBμV/m)	Avg limit (dBμV/m)	Avg margin (dB)

Note: Correction factor includes antenna, cable loss, amplifier, and attenuators.
Only worst results were reported (horizontal polarization)

Radiated Measurements

- All measurements were performed at a distance of 3 m.
- All measurements performed:
 - within 30–1000 MHz range: using a quasi-peak detector with 120 kHz/300 kHz RBW/VBW,
 - above 1 GHz: using peak detector with 1 MHz/3 MHz RBW/VBW for peak results
 - and using average detector with 1 MHz/3 MHz RBW/VBW for average results



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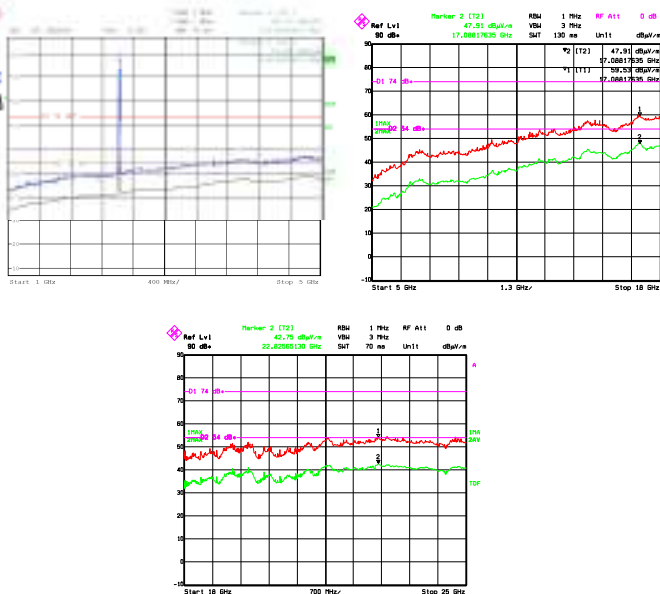
Product: Video door phone with wireless module WIFI,1717/32

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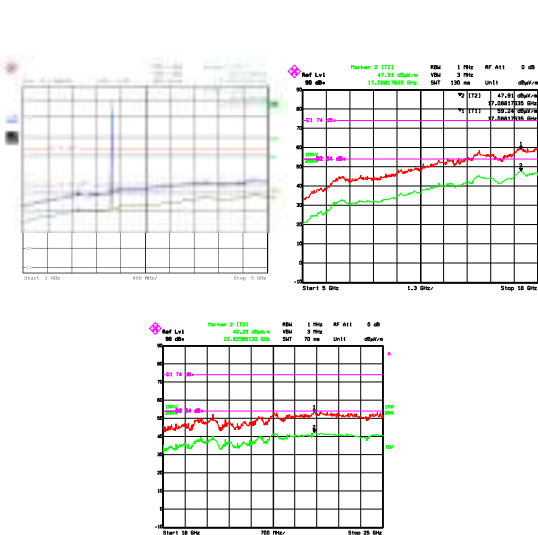
Test data, continued

Radiated measurement 802.11b vertical polarization

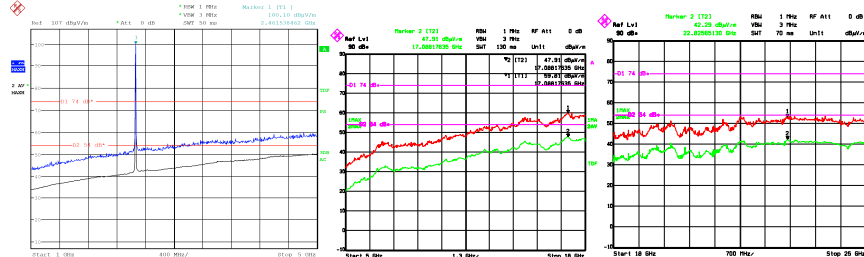
Low channel



Mid channel



High channel



Freq. (MHz)	Pol. V/H	Peak field strength (dBμV/m)	Correction (dB)	Peak limit (dBμV/m)	Peak margin (dB)	Duty cycle corr. (dB)	Avg field strength (dBμV/m)	Avg limit (dBμV/m)	Avg margin (dB)

Note: Correction factor includes antenna, cable loss, amplifier, and attenuators.
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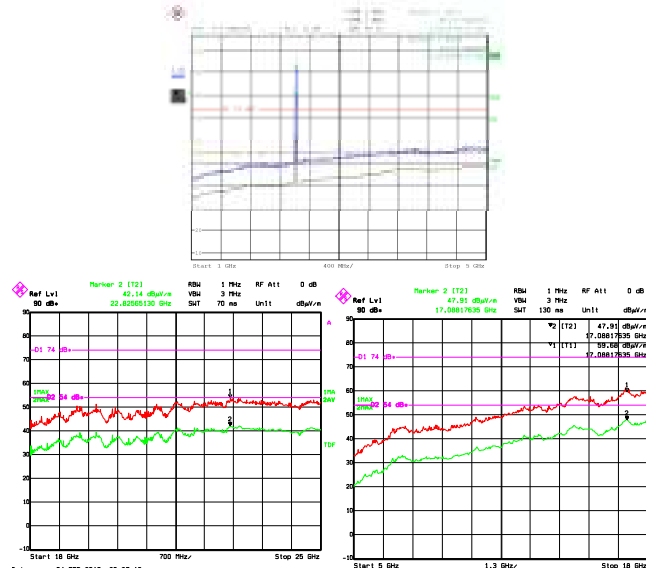
Product: Video door phone with wireless module WIFI,1717/32

Specification: FCC Part 15.247

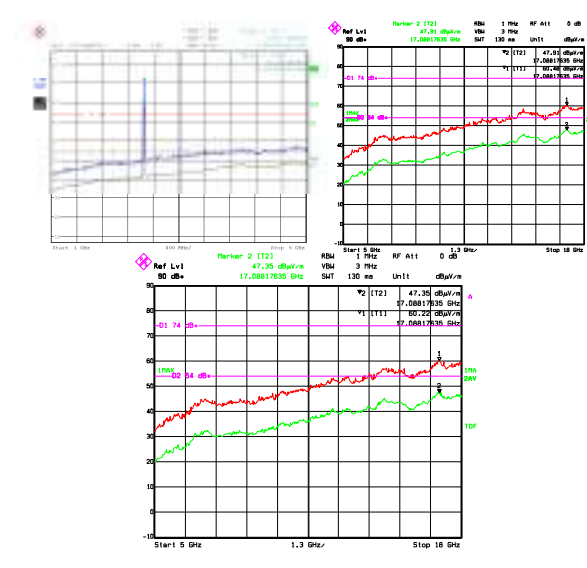
Test data, continued

Radiated measurement 802.11g horizontal polarization

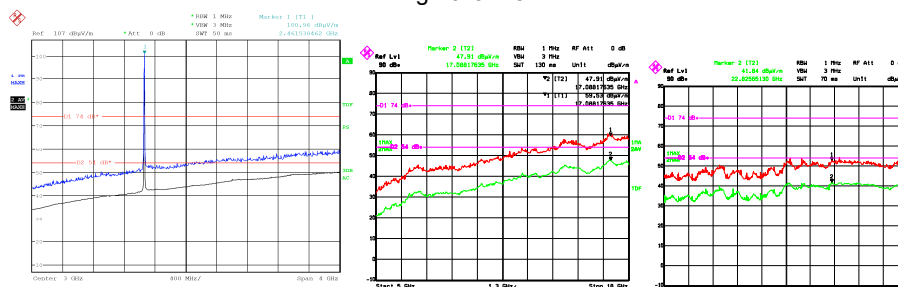
Low channel



Mid channel



High channel



Freq. (MHz)	Pol. V/H	Peak field strength (dBμV/m)	Correction (dB)	Peak limit (dBμV/m)	Peak margin (dB)	Duty cycle corr. (dB)	Avg field strength (dBμV/m)	Avg limit (dBμV/m)	Avg margin (dB)

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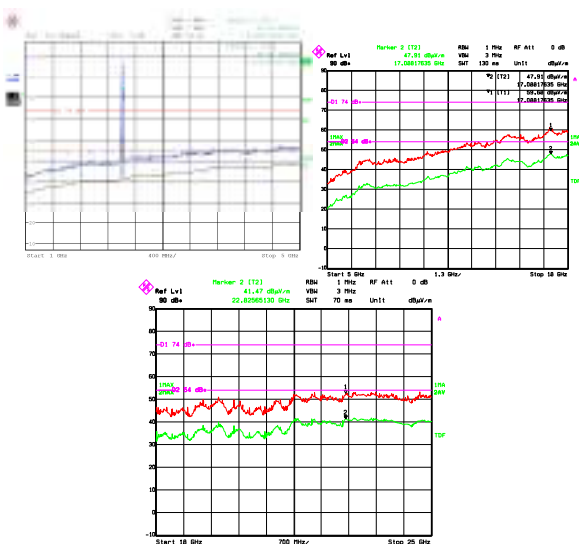
Product: Video door phone with wireless module WIFI,1717/32

Specification: FCC Part 15.247

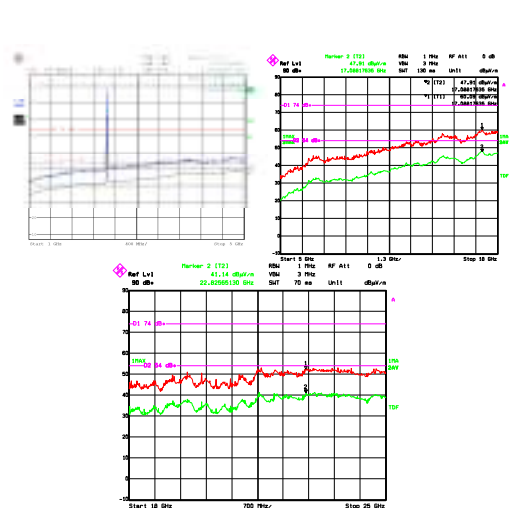
Test data, continued

Radiated measurement 802.11g vertical polarization

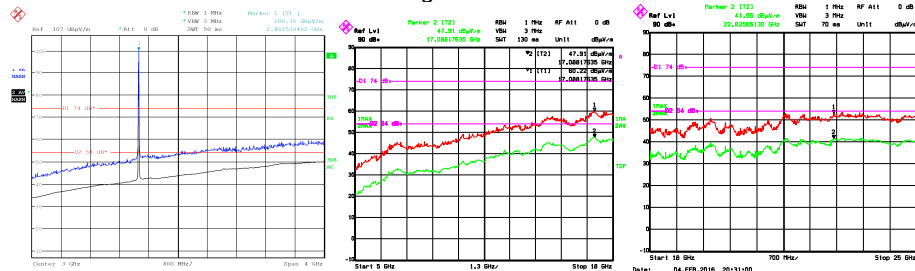
Low channel



Mid channel



High channel



Freq. (MHz)	Pol. V/H	Peak field strength (dBμV/m)	Correction (dB)	Peak limit (dBμV/m)	Peak margin (dB)	Duty cycle corr. (dB)	Avg field strength (dBμV/m)	Avg limit (dBμV/m)	Avg margin (dB)

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Section 8: Testing data

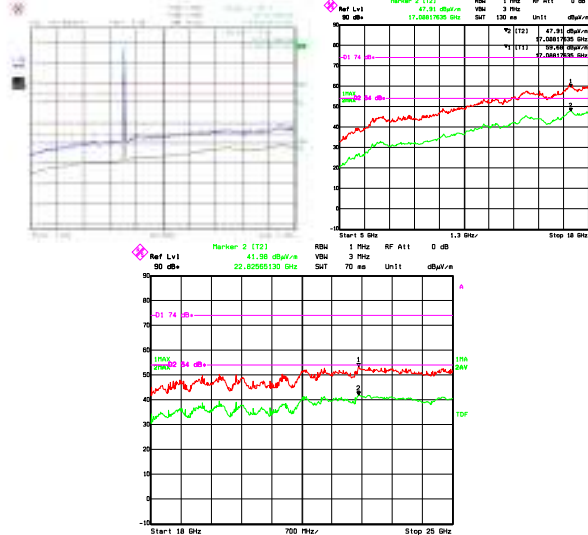
Product: Video door phone with wireless module WIFI,1717/32

Specification: FCC Part 15.247

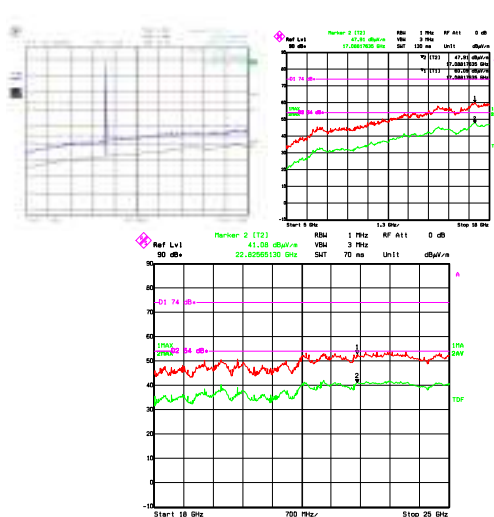
Test data, continued

Radiated measurement 802.11n vertical polarization

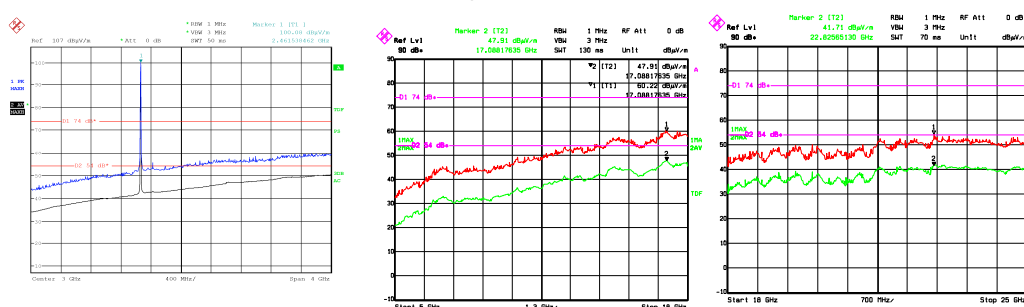
Low channel



Mid channel



High channel



Freq. (MHz)	Pol. V/H	Peak field strength (dBμV/m)	Correction (dB)	Peak limit (dBμV/m)	Peak margin (dB)	Duty cycle corr. (dB)	Avg field strength (dBμV/m)	Avg limit (dBμV/m)	Avg margin (dB)

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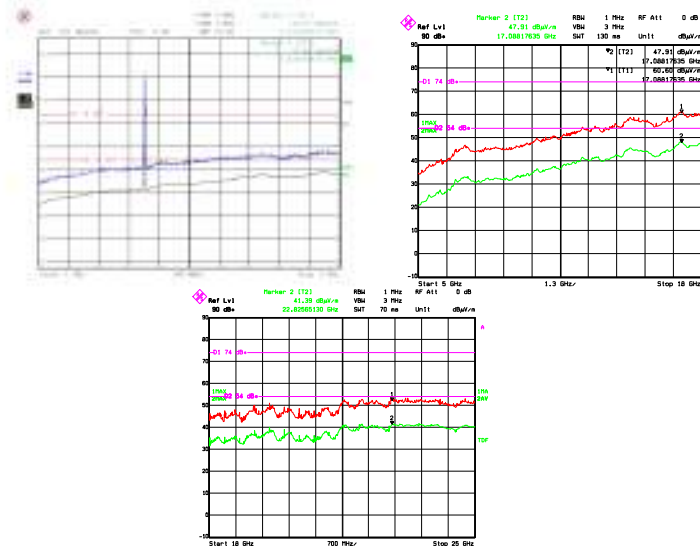
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Specification: FCC Part 15.247

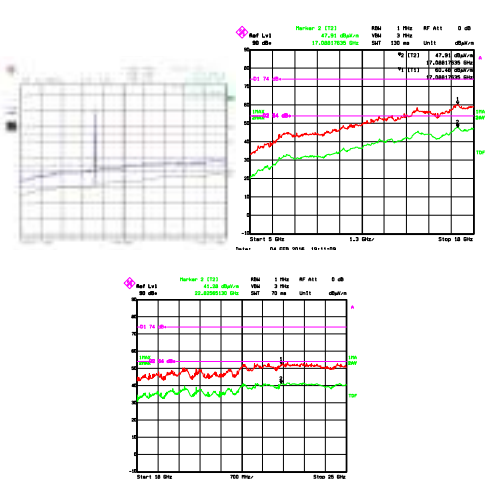
Test data, continued

Radiated measurement 802.11n horizontal polarization

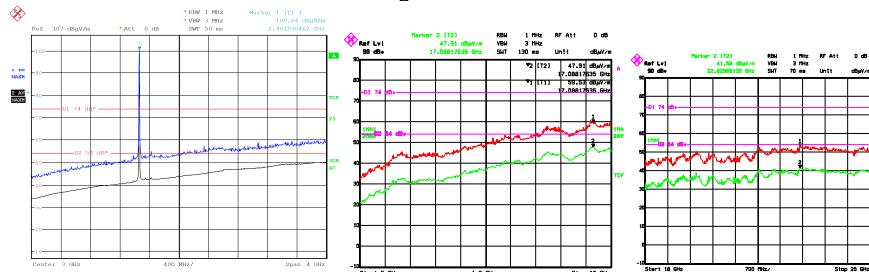
Low channel



Mid channel



High channel



Freq. (MHz)	Pol. V/H	Peak field strength (dBμV/m)	Correction (dB)	Peak limit (dBμV/m)	Peak margin (dB)	Duty cycle corr. (dB)	Avg field strength (dBμV/m)	Avg limit (dBμV/m)	Avg margin (dB)

Note: Correction factor includes antenna, cable loss, amplifier, and attenuators.
Only worst results were reported (horizontal polarization)

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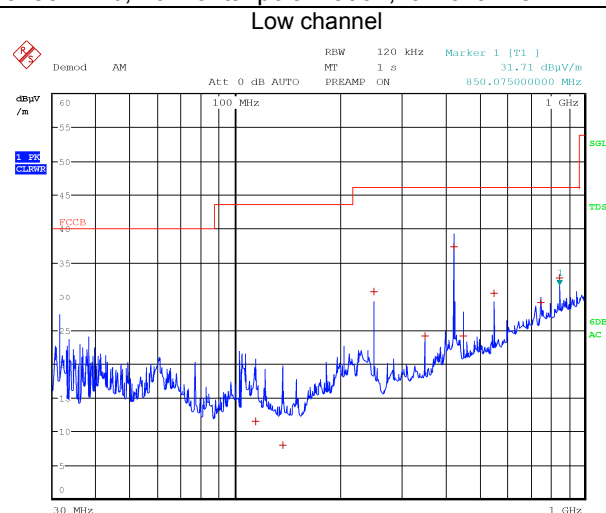
Section 8: Testing data

Product: Video door phone with wireless module WIFI,1717/32

Specification: FCC Part 15.247

Test data, continued

Radiated measurement protocol 802.11b, horizontal polarization, low channel



Freq. (MHz)	Pol. V/H	Quasi Peak field strength (dBµV/m)	Correction (dB)	Quasi Peak limit (dBµV/m)	Quasi Peak margin (dB)	Duty cycle corr. (dB)	Avg field strength (dBµV/m)	Avg limit (dBµV/m)	Avg margin (dB)
121.2250	h	20.2	11.6	43.5	-23.3	--	--	--	--
150.0250	h	23.7	10.2	43.5	-19.9	--	--	--	--
250.0250	h	29.9	14.6	46.0	-16.1	--	--	--	--
363.6750	h	25.3	17.2	46.0	-20.7	--	--	--	--
424.3500	h	33.8	18.3	46.0	-12.2	--	--	--	--
545.5250	h	34.5	20.4	46.0	-11.5	--	--	--	--
850.0500	h	26.2	25.4	46.0	-19.8	--	--	--	--

Note: Correction factor includes antenna, cable loss, amplifier, and attenuators.
Low channel radiated measured in vertical and horizontal polarization with protocol 802.11b



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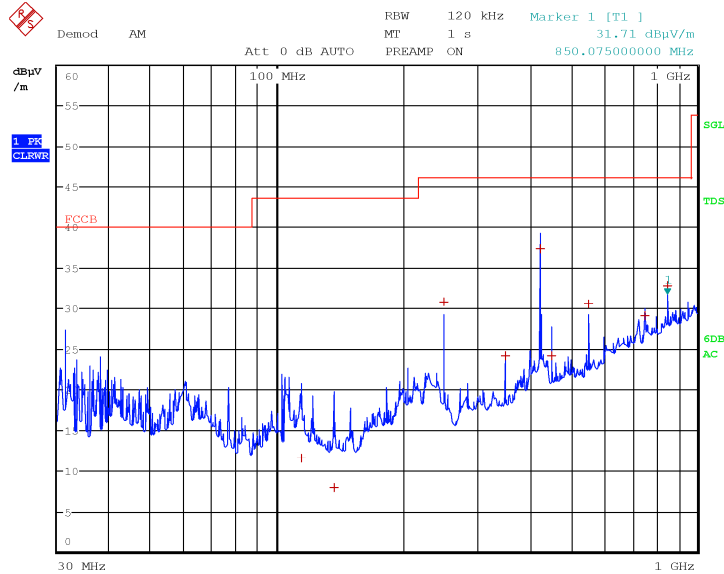
Section 8: Testing data

Product: Video door phone with wireless module WIFI,1717/32

Specification: FCC Part 15.247

Test data, continued

Radiated measurement protocol 802.11b, vertical polarization, low channel



Freq. (MHz)	Pol. V/H	Quasi Peak field strength (dBμV/m)	Correction (dB)	Quasi Peak limit (dBμV/m)	Quasi Peak margin (dB)	Duty cycle corr. (dB)	Avg field strength (dBμV/m)	Avg limit (dBμV/m)	Avg margin (dB)
114.1000	V	11.6	13.0	43.5	-31.9	--	--	--	--
136.8500	V	7.9	10.3	43.5	-35.6	--	--	--	--
250.0000	V	30.8	14.6	46.0	-15.2	--	--	--	--
350.0250	V	24.2	17.0	46.0	-21.9	--	--	--	--
424.2750	V	37.4	18.3	46.0	-8.6	--	--	--	--
450.0250	V	24.1	18.7	46.0	-21.9	--	--	--	--
550.0250	V	30.6	20.6	46.0	-15.4	--	--	--	--
750.0250	V	29.0	23.9	46.0	-17.0	--	--	--	--
850.0750	V	32.8	25.4	46.0	-13.2	--	--	--	--

Note: Correction factor includes antenna, cable loss, amplifier, and attenuators.
Low channel radiated measured in vertical and horizontal polarization with protocol 802.11b



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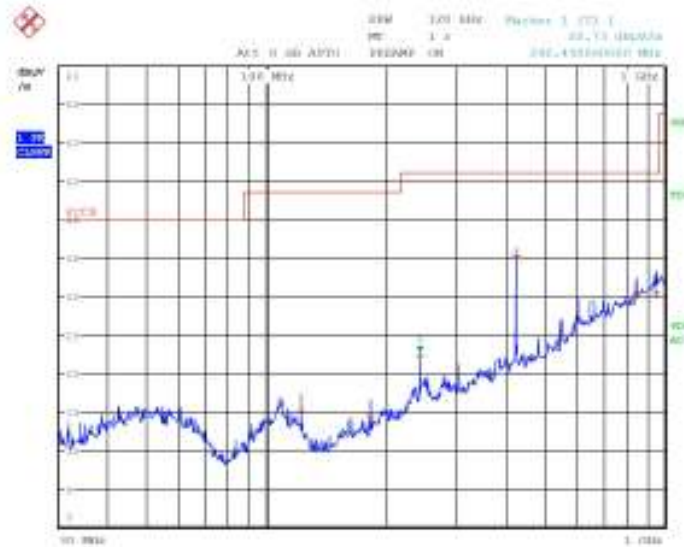
Section 8: Testing data

Product: Video door phone with wireless module WIFI,1717/32

Specification: FCC Part 15.247

Test data, continued

Radiated measurement protocol 802.11b, horizontal polarization, middle



Freq. (MHz)	Pol. V/H	Quasi Peak field strength (dBμV/m)	Correction (dB)	Quasi Peak limit (dBμV/m)	Quasi Peak margin (dB)	Duty cycle corr. (dB)	Avg field strength (dBμV/m)	Avg limit (dBμV/m)	Avg margin (dB)
121.2250	h	10.8	15.1	43.5	-28.4	--	--	--	--
181.8750	h	11.6	14.5	43.5	-29.0	--	--	--	--
242.4500	h	14.4	22.2	46.0	-23.8	--	--	--	--
424.3500	h	18.7	35.3	46.0	-10.7	--	--	--	--
850.0750	h	26.1	30.2	46.0	-15.9	--	--	--	--
950.0250	h	27.2	30.4	46.0	-15.6	--	--	--	--

Note: Correction factor includes antenna, cable loss, amplifier, and attenuators.



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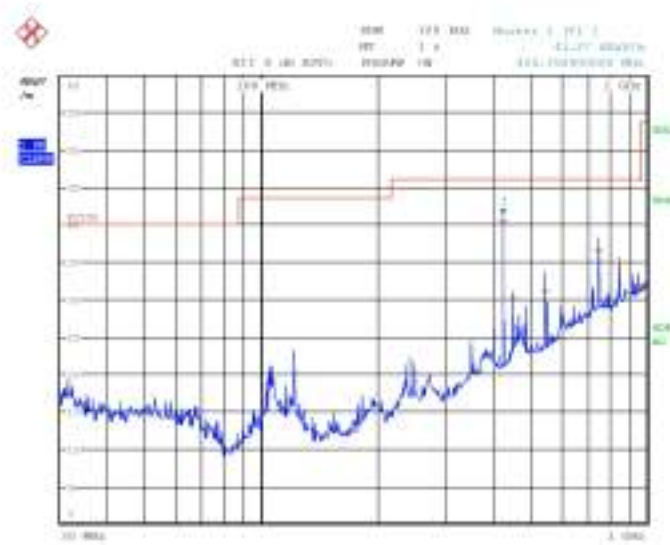
Section 8: Testing data

Product: Video door phone with wireless module WIFI,1717/32

Specification: FCC Part 15.247

Test data, continued

Radiated measurement protocol 802.11b, vertical polarization, middle channel



Freq. (MHz)	Pol. V/H	Quasi Peak field strength (dBμV/m)	Correction (dB)	Quasi Peak limit (dBμV/m)	Quasi Peak margin (dB)	Duty cycle corr. (dB)	Avg field strength (dBμV/m)	Avg limit (dBμV/m)	Avg margin (dB)
424.3500	V	40.4	18.7	46.0	-5.6	--	--	--	--
450.0250	V	30.1	19.1	46.0	-15.9	--	--	--	--
545.5000	V	31.1	21.0	46.0	-14.9	--	--	--	--
750.0500	V	36.6	24.6	46.0	-9.4	--	--	--	--
850.0500	V	35.0	26.1	46.0	-11.0	--	--	--	--
950.0500	V	31.8	27.2	46.0	-14.2	--	--	--	--

Note: Correction factor includes antenna, cable loss, amplifier, and attenuators.



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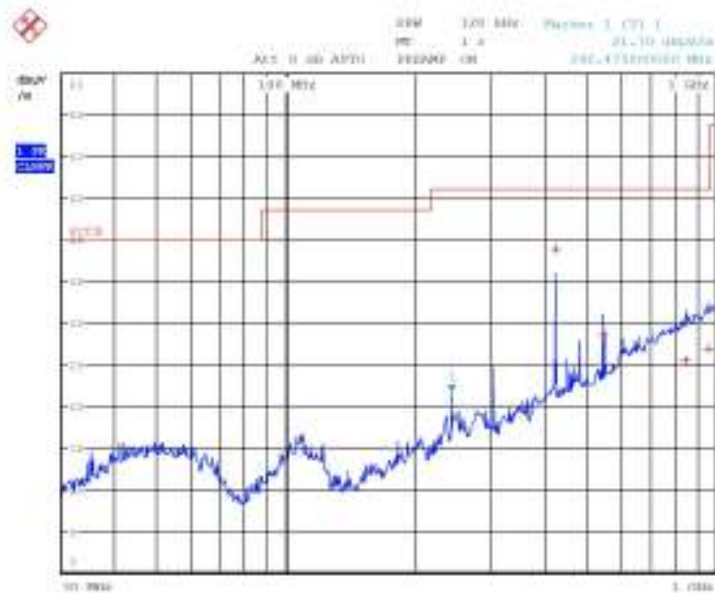
Section 8: Testing data

Product: Video door phone with wireless module WIFI,1717/32

Specification: FCC Part 15.247

Test data, continued

Radiated measurement protocol 802.11b, horizontal polarization, high channel



Freq. (MHz)	Pol. V/H	Quasi Peak field strength (dBμV/m)	Correction (dB)	Quasi Peak limit (dBμV/m)	Quasi Peak margin (dB)	Duty cycle corr. (dB)	Avg field strength (dBμV/m)	Avg limit (dBμV/m)	Avg margin (dB)
424.3000	h	38.9	18.7	46.0	-7.1	--	--	--	--
545.5500	h	28.5	21.0	46.0	-17.5	--	--	--	--
851.3750	h	25.5	26.1	46.0	-20.5	--	--	--	--
959.5500	h	26.9	27.3	46.0	-19.1	--	--	--	--

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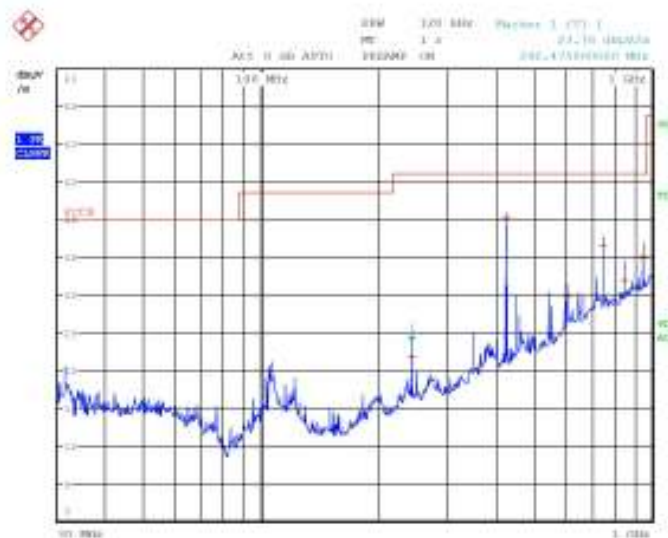
Section 8: Testing data

Product: Video door phone with wireless module WIFI,1717/32

Specification: FCC Part 15.247

Test data, continued

Radiated measurement protocol 802.11b, vertical polarization, high channel



Freq. (MHz)	Pol. V/H	Quasi Peak field strength (dBμV/m)	Correction (dB)	Quasi Peak limit (dBμV/m)	Quasi Peak margin (dB)	Duty cycle corr. (dB)	Avg field strength (dBμV/m)	Avg limit (dBμV/m)	Avg margin (dB)
242.4750	v	21.7	14.4	46.0	-24.3	--	--	--	--
424.2750	v	40.2	18.7	46.0	-5.9	--	--	--	--
606.1500	v	29.8	22.3	46.0	-16.2	--	--	--	--
750.0500	v	36.7	24.6	46.0	-9.3	--	--	--	--
848.6250	v	31.9	26.1	46.0	-14.1	--	--	--	--
950.0750	v	35.1	27.2	46.0	-10.9	--	--	--	--

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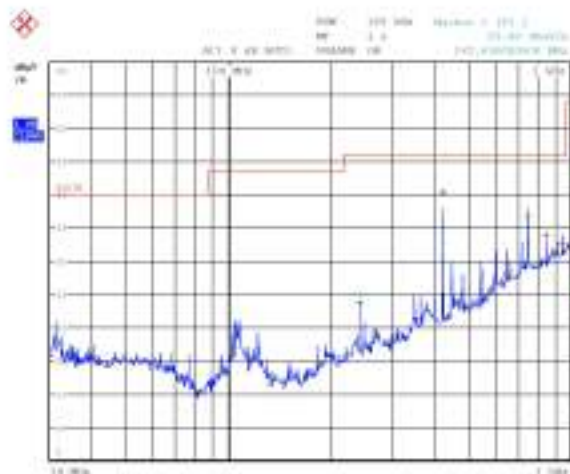
Section 8: Testing data

Product: Video door phone with wireless module WIFI,1717/32

Specification: FCC Part 15.247

Test data, continued

Radiated measurement protocol 802.11g, vertical polarization, low channel



Freq. (MHz)	Pol. V/H	Quasi Peak field strength (dBμV/m)	Correction (dB)	Quasi Peak limit (dBμV/m)	Quasi Peak margin (dB)	Duty cycle corr. (dB)	Avg field strength (dBμV/m)	Avg limit (dBμV/m)	Avg margin (dB)
424.35	v	40.5	18.7	46	-5.5	--	--	--	--
650.05	v	28.1	22.9	46	-17.9	--	--	--	--
750.05	v	36.8	24.6	46	-9.2	--	--	--	--
850.05	v	34	26.1	46	-12	--	--	--	--
950.075	v	32.5	27.2	46	-13.5	--	--	--	--

Note: Correction factor includes antenna, cable loss, amplifier, and attenuators.
Middle channel radiated measured in vertical and horizontal polarization with protocol 802.11g



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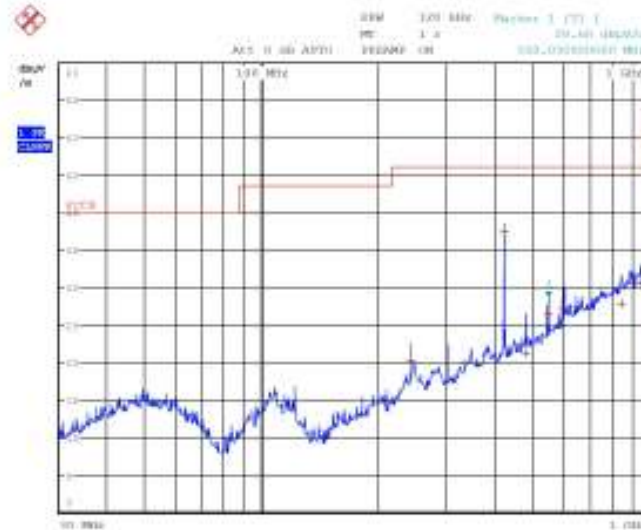
Section 8: Testing data

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Specification: FCC Part 15.247

Test data, continued

Radiated measurement protocol 802.11g, horizontal polarization, low channel



Freq. (MHz)	Pol. V/H	Quasi Peak field strength (dBμV/m)	Correction (dB)	Quasi Peak limit (dBμV/m)	Quasi Peak margin (dB)	Duty cycle corr. (dB)	Avg field strength (dBμV/m)	Avg limit (dBμV/m)	Avg margin (dB)
242.5000	h	20.3	14.4	46.0	-25.8	--	--	--	--
424.3000	h	37.5	18.7	46.0	-8.5	--	--	--	--
480.7000	h	21.3	19.8	46.0	-24.7	--	--	--	--
550.0500	h	26.4	21.1	46.0	-19.6	--	--	--	--
600.0250	h	27.3	22.2	46.0	-18.7	--	--	--	--
848.6500	h	27.8	26.1	46.0	-18.2	--	--	--	--
950.0500	h	30.7	49.0	46.0	-15.3	--	--	--	--

Note: Correction factor includes antenna, cable loss, amplifier, and attenuators.
Middle channel radiated measured in vertical and horizontal polarization with protocol 802.11g



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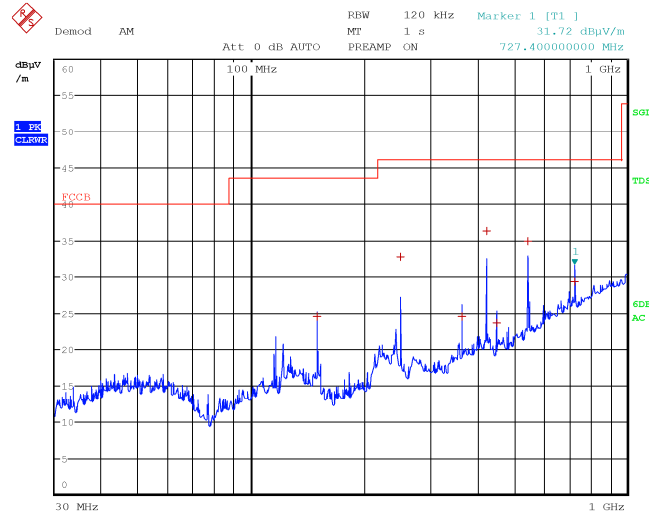
Section 8: Testing data

Product: Video door phone with wireless module WIFI,1717/32

Specification: FCC Part 15.247

Test data, continued

Radiated measurement protocol 802.11g, Horizontal polarization, mid channel



Freq. (MHz)	Pol. V/H	Quasi Peak field strength (dBμV/m)	Correction (dB)	Quasi Peak limit (dBμV/m)	Quasi Peak margin (dB)	Duty cycle corr. (dB)	Avg field strength (dBμV/m)	Avg limit (dBμV/m)	Avg margin (dB)
150.0000	h	24.5	10.2	43.5	-19.1	--	--	--	--
250.0250	h	32.8	14.6	46.0	-13.2	--	--	--	--
363.7000	h	24.5	17.2	46.0	-21.5	--	--	--	--
424.3250	h	36.4	18.3	46.0	-9.6	--	--	--	--
450.0000	h	23.6	18.7	46.0	-22.4	--	--	--	--
545.5500	h	34.9	20.5	46.0	-11.1	--	--	--	--
727.4000	h	29.3	23.7	46.0	-16.7	--	--	--	--

Note: Correction factor includes antenna, cable loss, amplifier, and attenuators.
Mid channel radiated measured in vertical and horizontal polarization with protocol 802.11g



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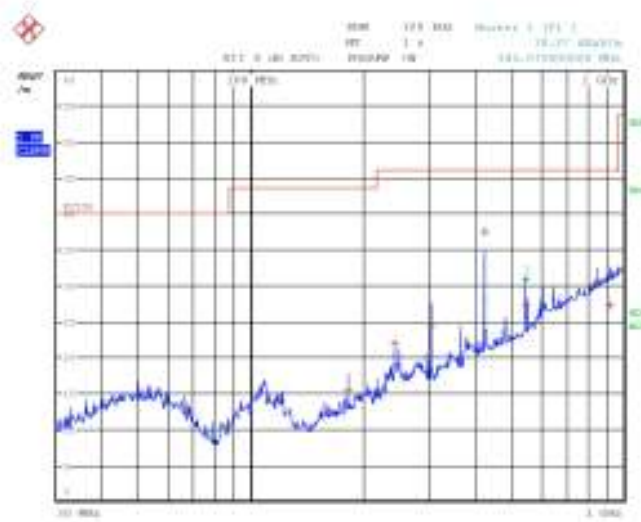
Section 8: Testing data

Product: Video door phone with wireless module WIFI,1717/32

Specification: FCC Part 15.247

Test data, continued

Radiated measurement protocol 802.11g, Horizontal polarization, high channel



Freq. (MHz)	Pol. V/H	Quasi Peak field strength (dBμV/m)	Correction (dB)	Quasi Peak limit (dBμV/m)	Quasi Peak margin (dB)	Duty cycle corr. (dB)	Avg field strength (dBμV/m)	Avg limit (dBμV/m)	Avg margin (dB)
181.8500	15.5	15.5	11.6	43.5	-28.0	--	--	--	--
242.4500	22.0	22.0	14.4	46.0	-24.1	--	--	--	--
303.0750	24.3	24.3	15.9	46.0	-21.7	--	--	--	--
424.3000	37.5	37.5	18.7	46.0	-8.5	--	--	--	--
545.5750	27.2	27.2	21.0	46.0	-18.8	--	--	--	--
850.0500	30.5	30.5	26.1	46.0	-15.5	--	--	--	--
917.2000	27.1	27.1	26.9	46.0	-18.9	--	--	--	--

Note: Correction factor includes antenna, cable loss, amplifier, and attenuators.



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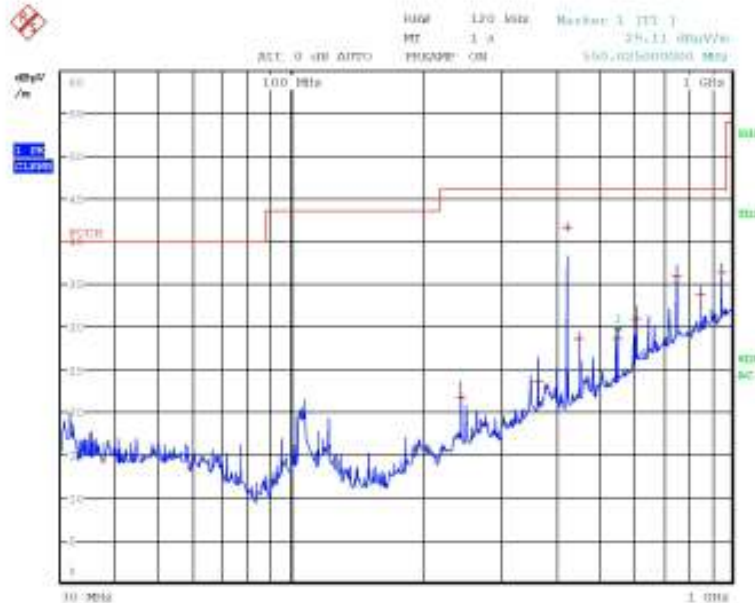
Section 8: Testing data

Product: Video door phone with wireless module WIFI,1717/32

Specification: FCC Part 15.247

Test data, continued

Radiated measurement protocol 802.11g, vertical polarization, high channel



Freq. (MHz)	Pol. V/H	Quasi Peak field strength (dBμV/m)	Correction (dB)	Quasi Peak limit (dBμV/m)	Quasi Peak margin (dB)	Duty cycle corr. (dB)	Avg field strength (dBμV/m)	Avg limit (dBμV/m)	Avg margin (dB)
242.4500	v	21.6	14.43	46.0	-24.4	--	--	--	--
363.7000	v	23.5	17.54	46.0	-22.6	--	--	--	--
424.3000	v	41.6	18.72	46.0	-4.4	--	--	--	--
450.0250	v	28.6	19.15	46.0	-17.4	--	--	--	--
550.0250	v	28.5	21.11	46.0	-17.5	--	--	--	--
606.1500	v	30.9	22.26	46.0	-15.1	--	--	--	--
750.0250	v	36.0	24.62	46.0	-10.0	--	--	--	--
850.0500	v	33.7	26.12	46.0	-12.3	--	--	--	--
950.0500	v	36.3	27.21	46.0	-9.7	--	--	--	--

Note: Correction factor includes antenna, cable loss, amplifier, and attenuators.



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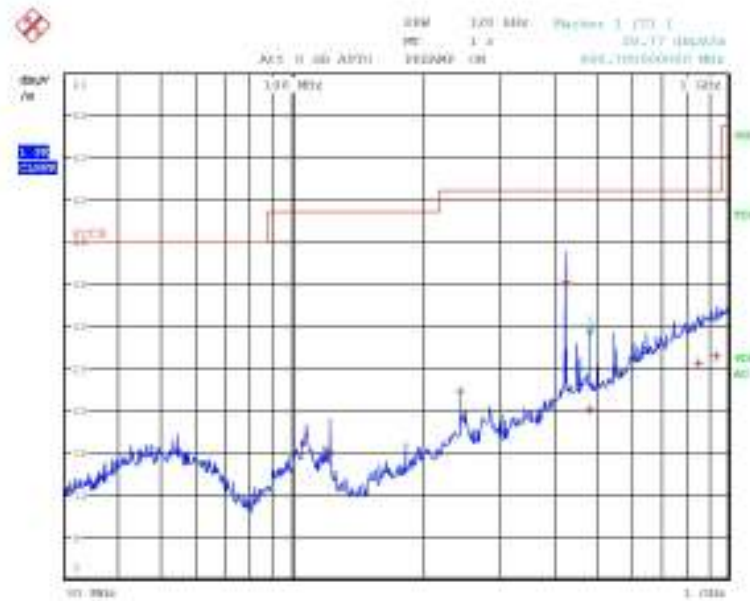
Section 8: Testing data

Product: Video door phone with wireless module WIFI,1717/32

Specification: FCC Part 15.247

Test data, continued

Radiated measurement protocol 802.11n, Horizontal polarization, low channel



Freq. (MHz)	Pol. V/H	Quasi Peak field strength (dBμV/m)	Correction (dB)	Quasi Peak limit (dBμV/m)	Quasi Peak margin (dB)	Duty cycle corr. (dB)	Avg field strength (dBμV/m)	Avg limit (dBμV/m)	Avg margin (dB)
121.2500	h	24.6	10.2	43.5	-18.9	--	--	--	--
242.4500	h	21.5	11.9	43.5	-22.0	--	--	--	--
350.0500	h	11.6	12.4	43.5	-31.9	--	--	--	--
424.3250	h	34.9	14.6	46.0	-11.1	--	--	--	--
450.0250	h	36.1	18.3	46.0	-9.9	--	--	--	--
550.0500	h	25.3	19.4	46.0	-20.7	--	--	--	--
606.1500	h	29.1	21.6	46.0	-16.9	--	--	--	--
750.0500	h	34.5	22.3	46.0	-11.5	--	--	--	--
850.0750	h	28.3	25.4	46.0	-17.7	--	--	--	--

Note: Correction factor includes antenna, cable loss, amplifier, and attenuators.
High channel radiated measured in vertical and horizontal polarization with protocol 802.11n



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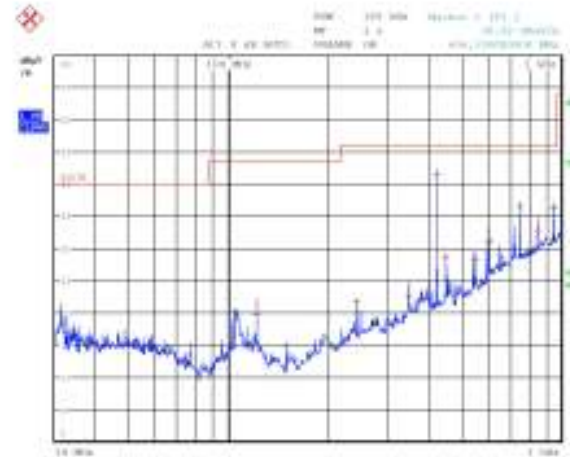
Section 8: Testing data

Product: Video door phone with wireless module WIFI,1717/32

Specification: FCC Part 15.247

Test data, continued

Radiated measurement protocol 802.11n, vertical polarization, low channel



Freq. (MHz)	Pol. V/H	Quasi Peak (dBμV/m)	Correction (dB)	Quasi Peak limit (dBμV/m)	Quasi Peak margin (dB)	Duty cycle corr. (dB)	Avg field strength (dBμV/m)	Avg limit (dBμV/m)	Avg margin (dB)
121.2500	v	19.8	10.79	43.5	-23.7	--	--	--	--
242.4500	v	21.6	14.43	46.0	-24.4	--	--	--	--
350.0500	v	22.6	17.29	46.0	-23.4	--	--	--	--
424.3250	v	41.5	18.72	46.0	-4.6	--	--	--	--
450.0250	v	28.6	19.15	46.0	-17.4	--	--	--	--
550.0500	v	28.2	21.11	46.0	-17.9	--	--	--	--
606.1500	v	30.9	22.26	46.0	-15.1	--	--	--	--
750.0500	v	36.5	24.62	46.0	-9.5	--	--	--	--
850.0750	v	32.8	26.12	46.0	-13.2	--	--	--	--
950.0500	v	36.3	27.21	46.0	-9.7	--	--	--	--

Note: Correction factor includes antenna, cable loss, amplifier, and attenuators.



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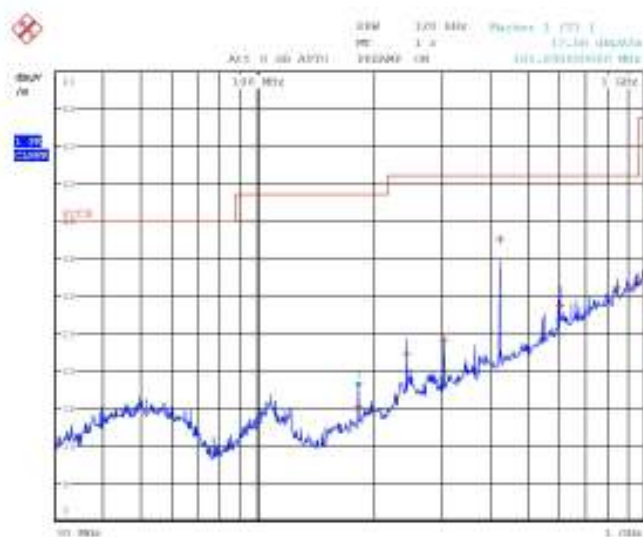
Section 8: Testing data

Product: Video door phone with wireless module WIFI,1717/32

Specification: FCC Part 15.247

Test data, continued

Radiated measurement protocol 802.11n, Horizontal polarization, middle channel



Freq. (MHz)	Pol. V/H	Quasi Peak field strength (dBμV/m)	Correction (dB)	Quasi Peak limit (dBμV/m)	Quasi Peak margin (dB)	Duty cycle corr. (dB)	Avg field strength (dBμV/m)	Avg limit (dBμV/m)	Avg margin (dB)
181.8500	h	24.6	10.2	43.5	-18.9	--	--	--	--
242.4500	h	21.5	11.9	43.5	-22.0	--	--	--	--
303.1000	h	11.6	12.4	43.5	-31.9	--	--	--	--
424.3250	h	34.9	14.6	46.0	-11.1	--	--	--	--
606.1250	h	36.1	18.3	46.0	-9.9	--	--	--	--
850.0500	h	25.3	19.4	46.0	-20.7	--	--	--	--
950.0500	h	29.1	21.6	46.0	-16.9	--	--	--	--
181.8500	h	34.5	22.3	46.0	-11.5	--	--	--	--
242.4500	h	28.3	25.4	46.0	-17.7	--	--	--	--

Note: Correction factor includes antenna, cable loss, amplifier, and attenuators.
High channel radiated measured in vertical and horizontal polarization with protocol 802.11n



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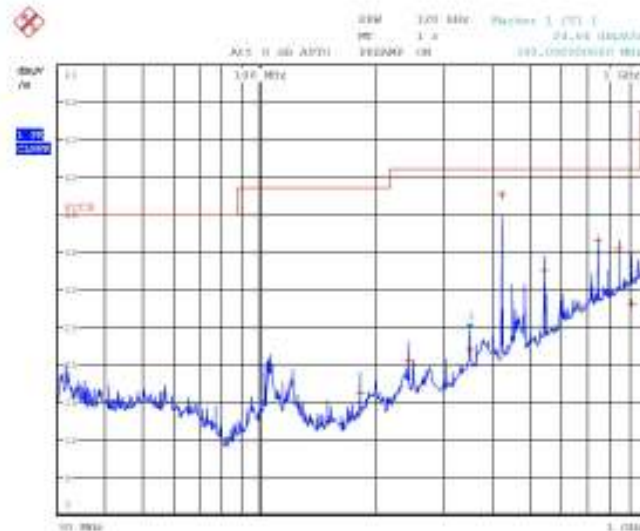
Section 8: Testing data

Product: Video door phone with wireless module WIFI,1717/32

Specification: FCC Part 15.247

Test data, continued

Radiated measurement protocol 802.11n, vertical polarization, middle channel



Freq. (MHz)	Pol. V/H	Quasi Peak(dBμV/m)	Correction (dB)	Quasi Peak limit (dBμV/m)	Quasi Peak margin (dB)	Duty cycle corr. (dB)	Avg field strength (dBμV/m)	Avg limit (dBμV/m)	Avg margin (dB)
181.8500	v	16.2	11.57	43.5	-27.3	--	--	--	--
242.4250	v	20.5	14.43	46.0	-25.5	--	--	--	--
350.0500	v	22.0	17.29	46.0	-24.0	--	--	--	--
424.3250	v	42.7	18.72	46.0	-3.3	--	--	--	--
545.5750	v	32.6	21.00	46.0	-13.4	--	--	--	--
750.0500	v	36.6	24.62	46.0	-9.4	--	--	--	--
850.0500	v	35.5	26.12	46.0	-10.5	--	--	--	--
917.4750	v	28.1	26.87	46.0	-17.9	--	--	--	--

Note: Correction factor includes antenna, cable loss, amplifier, and attenuators.



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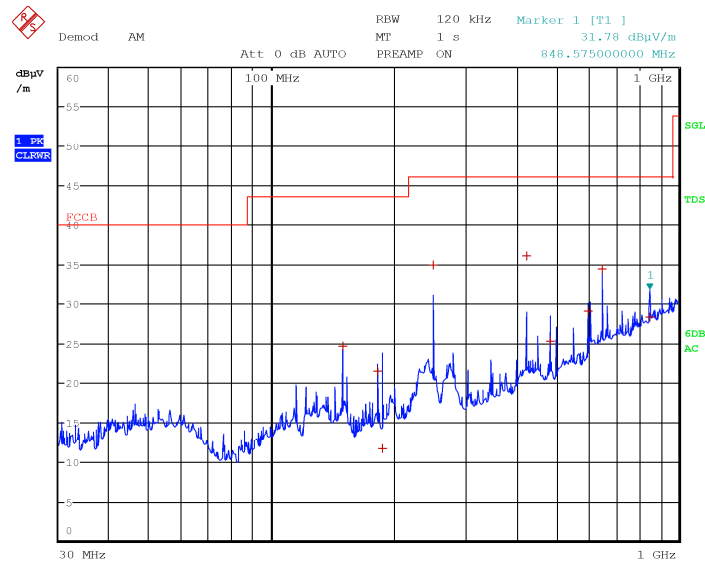
Section 8: Testing data

Product: Video door phone with wireless module WIFI,1717/32

Specification: FCC Part 15.247

Test data, continued

Radiated measurement protocol 802.11n, Horizontal polarization, high channel



Freq. (MHz)	Pol. V/H	Quasi Peak field strength (dBµV/m)	Correction (dB)	Quasi Peak limit (dBµV/m)	Quasi Peak margin (dB)	Duty cycle corr. (dB)	Avg field strength (dBµV/m)	Avg limit (dBµV/m)	Avg margin (dB)
150.0000	h	24.6	10.2	43.5	-18.9	--	--	--	--
181.8250	h	21.5	11.9	43.5	-22.0	--	--	--	--
187.2500	h	11.6	12.4	43.5	-31.9	--	--	--	--
250.0000	h	34.9	14.6	46.0	-11.1	--	--	--	--
424.3250	h	36.1	18.3	46.0	-9.9	--	--	--	--
484.9000	h	25.3	19.4	46.0	-20.7	--	--	--	--
600.0500	h	29.1	21.6	46.0	-16.9	--	--	--	--
650.0250	h	34.5	22.3	46.0	-11.5	--	--	--	--
848.5750	h	28.3	25.4	46.0	-17.7	--	--	--	--

Note: Correction factor includes antenna, cable loss, amplifier, and attenuators.
High channel radiated measured in vertical and horizontal polarization with protocol 802.11n



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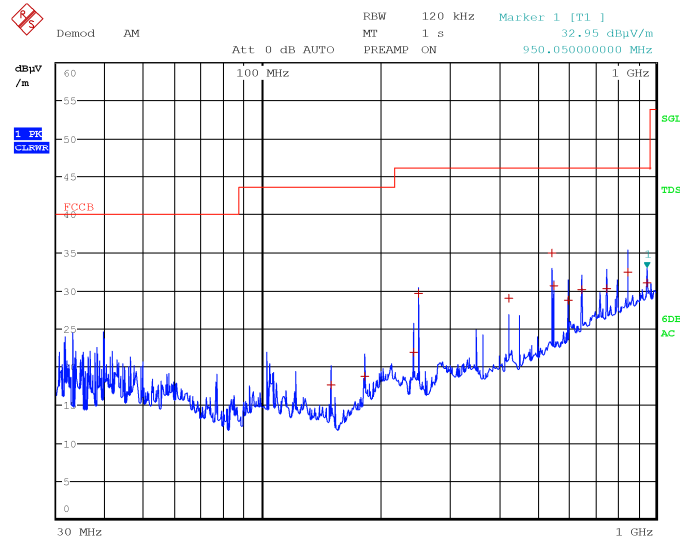
Section 8: Testing data

Product: Video door phone with wireless module WIFI,1717/32

Specification: FCC Part 15.247

Test data, continued

Radiated measurement protocol 802.11n, vertical polarization, high channel



Date: 6.OCT.2015 20:35:59

Freq. (MHz)	Pol. V/H	Quasi Peak field strength (dBμV/m)	Correction (dB)	Quasi Peak limit (dBμV/m)	Quasi Peak margin (dB)	Duty cycle corr. (dB)	Avg field strength (dBμV/m)	Avg limit (dBμV/m)	Avg margin (dB)
150.0000	v	17.6	10.2	43.5	-25.9	--	--	--	--
181.8500	v	18.7	11.9	43.5	-24.8	--	--	--	--
242.4500	v	21.9	14.4	46.0	-24.2	--	--	--	--
250.0250	v	29.7	14.6	46.0	-16.4	--	--	--	--
424.3000	v	29.1	18.3	46.0	-16.9	--	--	--	--
545.5250	v	35.0	20.4	46.0	-11.1	--	--	--	--
550.0250	v	30.7	20.6	46.0	-15.3	--	--	--	--
600.0500	v	28.8	21.6	46.0	-17.3	--	--	--	--
650.0500	v	30.2	22.3	46.0	-15.8	--	--	--	--
750.0500	v	30.3	23.9	46.0	-15.7	--	--	--	--
850.0500	v	32.4	25.4	46.0	-13.6	--	--	--	--
950.0500	v	31.0	26.5	46.0	-15.0	--	--	--	--

Note: Correction factor includes antenna, cable loss, amplifier, and attenuators.
High channel radiated measured in vertical and horizontal polarization with protocol 802.11n



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Section 8: Testing data

Product: Video door phone with wireless module WIFI,1717/32

Specification: FCC Part 15.247

Setup photos





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Section 8: Testing data

Product Video door phone with wireless module WIFI, 1717/32

Specification: FCC Part 15.247

8.8 Clause 15.247(e) Power spectral density for digitally modulated devices

§ 15.247 Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz.

- (e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Special notes

- The test was performed using guidelines of ANSI C63.10-2013.
- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 times the DTS bandwidth.
- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW $\geq 3 \text{ RBW}$.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat



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Section 8: Testing data

Product Video door phone with wireless module WIFI,1717/32

Specification: FCC Part 15.247

Test data, continued

Section (3) Results, continued protocol 802.11b

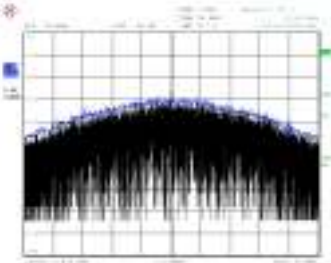
Radiated measurements

Radiated measurements were performed:

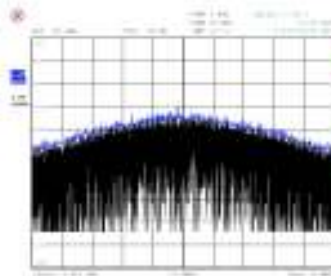
- The EUT was measured on three orthogonal axis.
- All measurements were performed at a distance of 3 m.
- All measurements were performed:
 - using a peak detector
 - eirp

Notes:

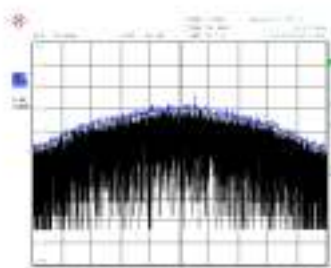
Low channel, horizontal polarization



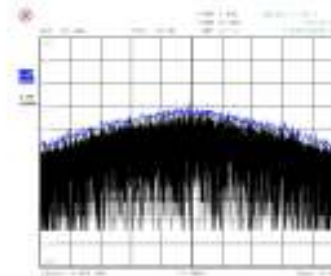
Low channel, vertical polarization



Middle channel, horizontal polarization



Middle channel, vertical polarization





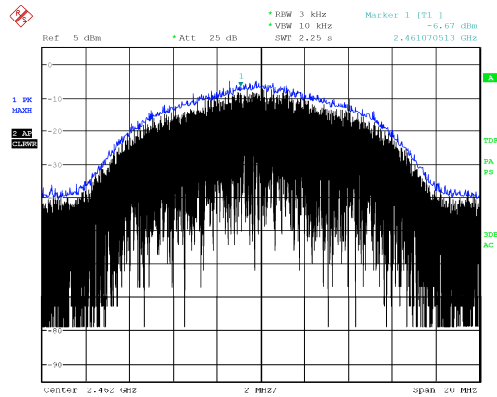
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Section 8: Testing data

Product Video door phone with wireless module WIFI,1717/32

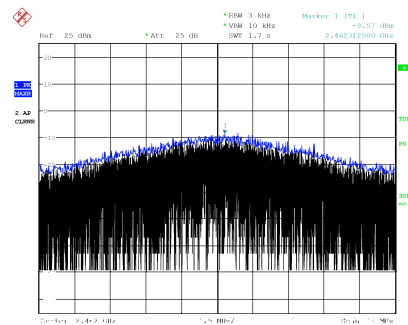
Specification: FCC Part 15.247

High channel, horizontal polarization



Date: 6.APR.2016 14:35:54

High channel, vertical polarization





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Section 8: Testing data

Product Video door phone with wireless module WIFI,1717/32

Specification: FCC Part 15.247

Test data, continued

Section (3) Results, continued protocol 802.11b

Radiated measurements

Radiated measurements were performed:

- The EUT was measured on three orthogonal axis.
- All measurements were performed at a distance of 3 m.
- All measurements were performed:
 - using a peak detector w

Notes:

protocol 802.11b:

Horizontal polarization

Frequency (MHz)	Eirp dBm/3KHz	PR dBm/3KHz	LP dB	Gr dBi	LC dB	Pmeas dBm/3KHz
2412	-8.06	-57.75	49.69	8.28	7.82	-57.29
2442	-6.41	-56.21	49.8	8.2	7.88	-55.89
2462	-6.67	-56.54	49.87	8.15	7.94	-56.33

Frequency (MHz)	Eirp dBm/3KHz	Antenna gain di	Output power (dBm/3kHz)	Limit dBm	--	--
2412	-8.06	2	-10.06	8	--	--
2442	-6.41	2	-8.41	8	--	--
2462	-6.67	2	-8.67	30	--	--

Vertical polarization

Frequency (MHz)	Eirp dBm/3KHz	PR dBm/3KHz	LP dB	Gr dBi	LC dB	Pmeas dBm/3KHz
2412	-11.96	-61.65	49.69	8.28	7.82	-61.19
2442	-10.59	-60.39	49.8	8.2	7.88	-60.07
2462	-8.6	-58.47	49.87	8.15	7.94	-58.26

Frequency (MHz)	Eirp dBm/3KHz	Antenna gain di	Output power (dBm/3kHz)	Limit dBm	--	--
2412	-11.96	2	-13.96	8	--	--
2442	-10.59	2	-12.59	8	--	--
2462	-8.6	2	-10.6	8	--	--



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Section 8: Testing data

Product Video door phone with wireless module WIFI,1717/32

Specification: FCC Part 15.247

Test data, continued

Section (3) Results, continued protocol 802.11g

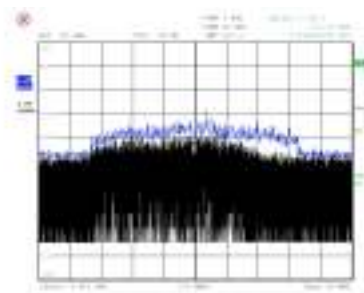
Radiated measurements

Radiated measurements were performed:

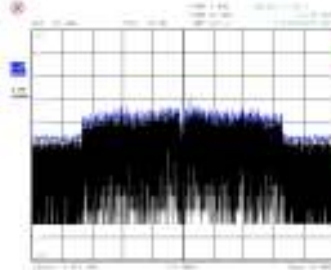
- The EUT was measured on three orthogonal axis.
- All measurements were performed at a distance of 3 m.
- All measurements were performed:
 - using a peak detector
 -
 - eirp

Notes:

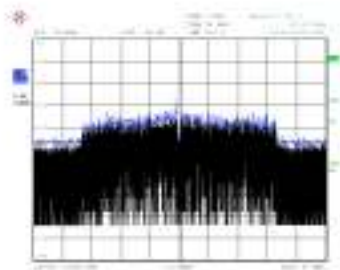
Low channel, horizontal polarization



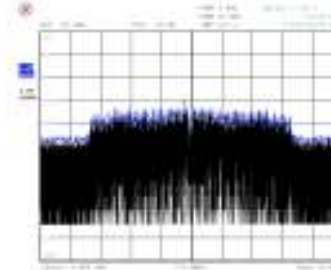
Low channel, vertical polarization



Middle channel, horizontal polarization



Middle channel, vertical polarization





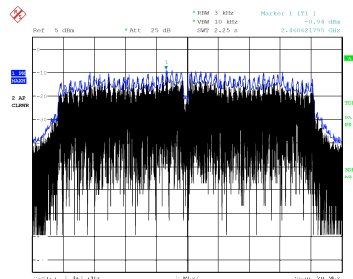
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Section 8: Testing data

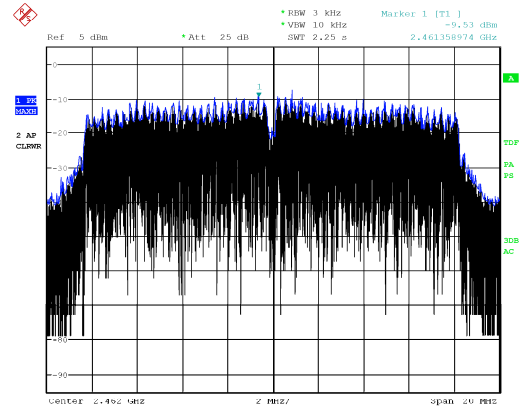
Product Video door phone with wireless module WIFI,1717/32

Specification: FCC Part 15.247

High channel, horizontal polarization



High channel, vertical polarization



Date: 6.APR.2016 14:44:25



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Section 8: Testing data

Product Video door phone with wireless module WIFI,1717/32

Specification: FCC Part 15.247

Test data, continued

Section (3) Results, continued protocol 802.11g

Radiated measurements

Radiated measurements were performed:

- The EUT was measured on three orthogonal axis.
- All measurements were performed at a distance of 3 m.
- All measurements were performed:
 - using a peak detector w

Notes:

protocol 802.11g:

Horizontal polarization

Frequency (MHz)	Eirp dBm/3KHz	PR dBm/3KHz	LP dB	Gr dBi	LC dB	Pmeas dBm/3KHz
2412	-11.10	-60.79	49.69	8.28	7.82	-60.33
2442	-11.07	-60.87	49.8	8.2	7.88	-60.55
2462	-8.94	-58.81	49.87	8.15	7.94	-58.60

Frequency (MHz)	Eirp dBm/3KHz	Antenna gain di	Output power (dBm/3kHz)	Limit dBm	--	--
2412	-11.10	2	-13.10	8	--	--
2442	-11.07	2	-13.07	8	--	--
2462	-8.94	2	-10.94	30	--	--

Vertical polarization

Frequency (MHz)	Eirp dBm/3KHz	PR dBm/3KHz	LP dB	Gr dBi	LC dB	Pmeas dBm/3KHz
2412	-11.48	-61.17	49.69	8.28	7.82	-60.71
2442	-12.08	-61.88	49.8	8.2	7.88	-61.56
2462	-9.53	-59.40	49.87	8.15	7.94	-59.19

Frequency (MHz)	Eirp dBm/3KHz	Antenna gain di	Output power (dBm/3kHz)	Limit dBm	--	--
2412	-11.48	2	-13.48	8	--	--
2442	-12.08	2	-14.08	8	--	--
2462	-9.53	2	-11.53	8	--	--



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Section 8: Testing data

Product Video door phone with wireless module WIFI,1717/32

Specification: FCC Part 15.247

Test data, continued

Section (3) Results, continued protocol 802.11n

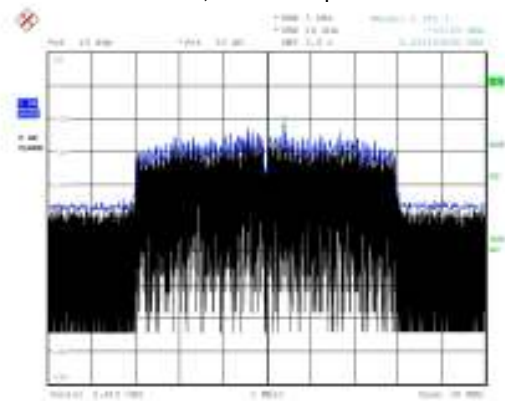
Radiated measurements

Radiated measurements were performed:

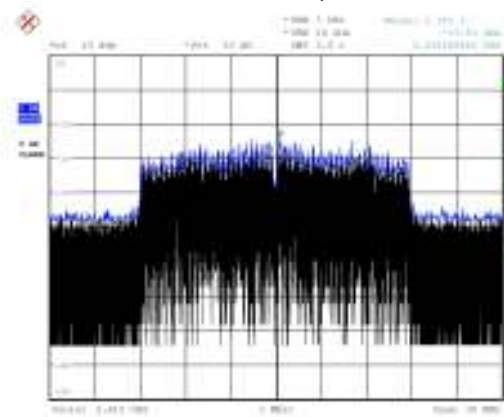
- The EUT was measured on three orthogonal axis.
- All measurements were performed at a distance of 3 m.
- All measurements were performed:
 - using a peak detector
 -
 - eirp

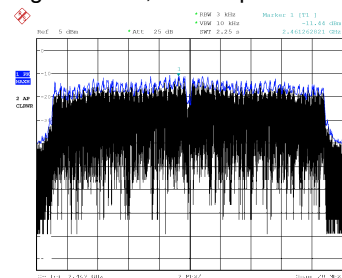
Notes:

Low channel, horizontal polarization



Low channel, vertical polarization







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Section 8: Testing data

Product Video door phone with wireless module WIFI, 1717/32

Specification: FCC Part 15.247

Test data, continued

Section (3) Results, continued protocol 802.11n

Radiated measurements

Radiated measurements were performed:

- The EUT was measured on three orthogonal axis.
- All measurements were performed at a distance of 3 m.
- All measurements were performed:
 - using a peak detector

Notes:

protocol 802.11n:

Horizontal polarization

Frequency (MHz)	Eirp dBm/3KHz	PR dBm/3KHz	LP dB	Gr dBi	LC dB	Pmeas dBm/3KHz
2412	-13.25	-62.94	49.69	8.28	7.82	-62.48
2442	-14.41	-64.21	49.8	8.2	7.88	-63.89
2462	-13.66	-63.53	49.87	8.15	7.94	-63.32

Frequency (MHz)	Eirp dBm/3KHz	Antenna gain di	Output power (dBm/3kHz)	Limit dBm	--	--
2412	-13.25	2	-15.25	8	--	--
2442	-14.41	2	-16.41	8	--	--
2462	-13.66	2	-15.66	8	--	--

Vertical polarization

Frequency (MHz)	Eirp dBm/3KHz	PR dBm/3KHz	LP dB	Gr dBi	LC dB	Pmeas dBm/3KHz
2412	-13.81	-63.5	49.69	8.28	7.82	-63.04
2442	-12.97	-62.77	49.8	8.2	7.88	-62.45
2462	-11.44	-61.31	49.87	8.15	7.94	-61.10

Frequency (MHz)	Eirp dBm/3KHz	Antenna gain di	Output power (dBm/3kHz)	Limit dBm	--	--
2412	-13.81	2	-15.81	8	--	--
2442	-12.97	2	-14.97	8	--	--
2462	-11.44	2	-13.44	8	--	--

EIRP = PR + LP (G.7)

where

EIRP is the equivalent (or effective) isotropically radiated power (in same units as PR)



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Product Video door phone with wireless module WIFI,1717/32

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PR is the adjusted received power level, in dBW, dBm, or psd

LP is the basic free-space propagation path loss, in dB

The received power level is the measured power adjusted for measurement antenna gain, connecting cable loss, and any external signal amplification or attenuation used in the test configuration. Mathematically, as in Equation (G.8):

$$PR = P_{meas} - GR + LC + L_{atten} - G_{amp} \quad (G.8)$$

where

P_{meas} is the measured power level, in dBW, dBm, or psd

GR is the gain of the receive (measurement) antenna, in dBi

LC is the signal loss in the measurement cable, in dB

L_{atten} is the value of external attenuation (if used), in dB

G_{amp} is the value of external amplification (if used), in dB

The free-space propagation path loss is determined from Equation (G.9):

$$LP = 20\log F + 20\log d - 27.5$$

$$L_{atten} = G_{amp} = 0$$

 Nemko Spa Via del Carroccio, 4 I 20853 Biassono (Italy)	Section 10: EUT photos	Product: Video door phone with wireless module WIFI,1717/32
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Section 10: EUT photos	
EUT	