

APENDIX A

Test Result

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1. DESCRIPTION OF THE OPERATION MODES

The operation modes described in this paragraph constitute a functionality of the sample under test for itself. Every operation mode takes a failure criteria for the immunity test that they were applying to it and a monitoring to guarantee performance of the same ones.

In the following table appears the operation modes used by the samples tested to that it refers the present test report.

OPERATION MODE	DESCRIPTION
OM#01	EUT ON. Looking for WIFI network. Power supply 3.8 Vdc.
OM#02	EUT ON. Transmission mode.

2. RADIATED EMISSION. ELECTROMAGNETIC FIELD MEASUREMENT.

LIMITS:	Product standard :	FCC RULES AND REGULATIONS 47 CFR PART 15, SUBPART B.
	Test standard :	Part 15, Subpart B of FCC Rules.

LIMITS OF INTERFERENCE CLASS B

The applied limit for radiated emissions, 3 m distance, according with the requirements of FCC Rules and Regulations 47 CFR Part 15, Subpart B in the frequency range 30 MHz to 12,5 GHz, for Class B equipment, which is a transmitter in a band over 500 MHz, was:

Frequency range (MHz)	Limit for 3 m ($\mu\text{V/m}$)	Limit for 3 m (dB $\mu\text{V/m}$)
30 to 88	100	40
88 to 216	150	43,52
216 to 960	200	46,02
Above 960	500	53,98

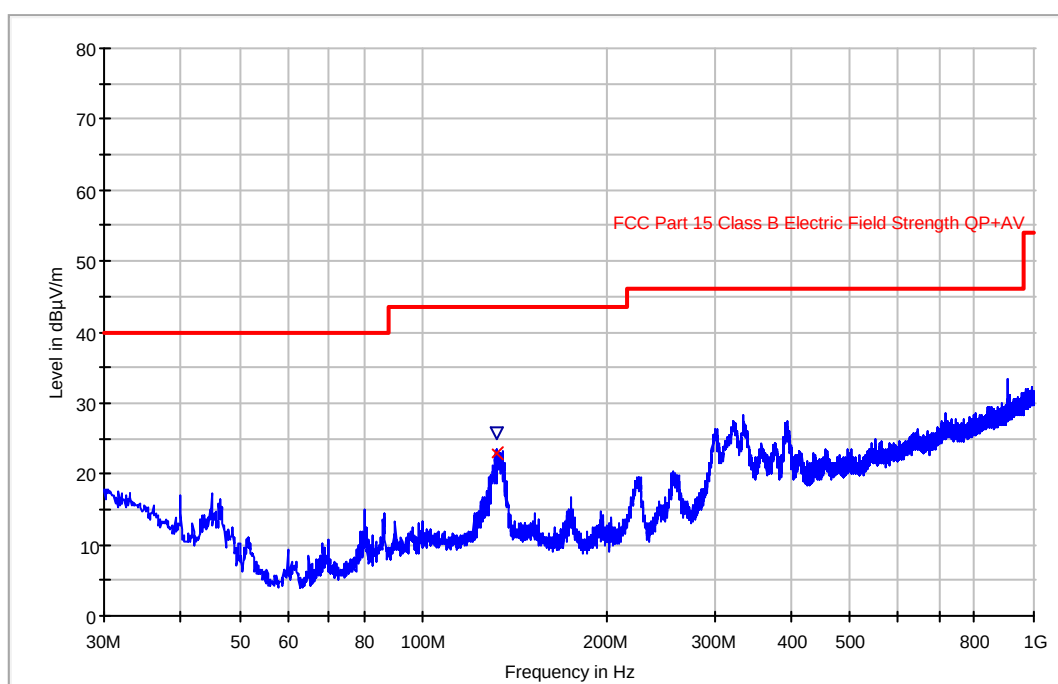
TESTED SAMPLES:	S/01
TESTED OPERATION MODES:	OM#01
TEST RESULTS :	CRmmnn: CR, Condición de Radiación; mm: Sample number; nn: Operation mode.

CRmmnn	Description	Result
CR0101	30 MHz - 1000 MHz	PASS
CR0101	1 GHz – 12.5 GHz Horizontal polarization	PASS
CR0101	1 GHz – 12.5 GHz Vertical polarization	PASS

Radiated Emission: CR0101 (30MHz to 1GHz)

Project: 28057iem.002
 Company: TELIT
 Sample: S/01
 Operation mode: OM#01
 Date: 2008-09-10 13:18
 Setup: EMI radiated
 Mode: EUT ON. Wi-fi active.

FCC class B



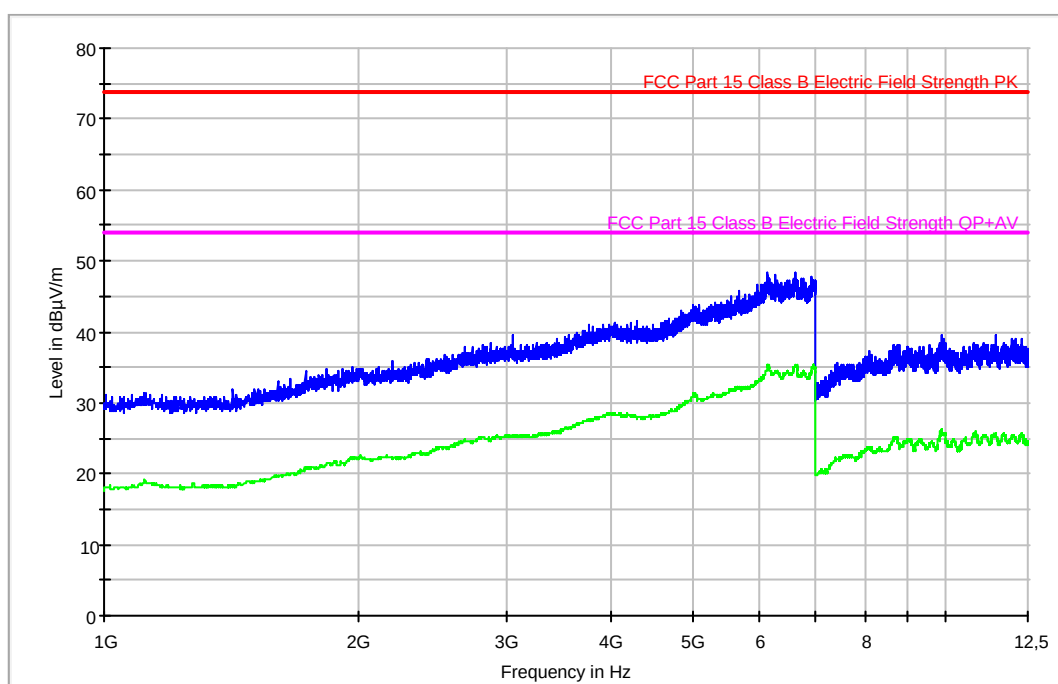
maximized

Frequency (MHz)	QuasiPeak (dBµV/m)	MaxPeak (dBµV/m)	Antenna height (cm)	Polarity	Turntable position (deg)
131.549098	22.9	25.8	100.00	V	111.0

Radiated Emission: CR0101 (1GHz to 12.5GHz Horizontal polarization)

Project: 28057iem.002
 Company: TELIT
 Sample: S/01
 Operation mode: OM#01
 Date: 2008-09-10 15:00
 Setup: EMI radiated
 Mode: EUT ON. Wi-fi active. Horizontal polarization.

FCC 1-12.5GHz class B



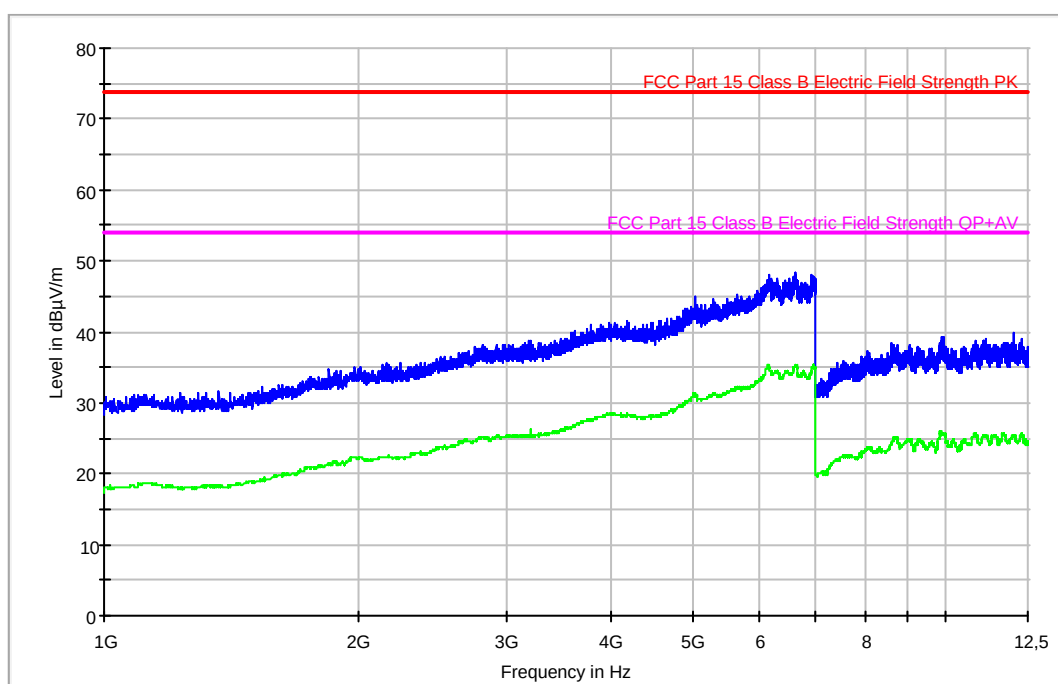
DataReduction Detector1

Frequency (MHz)	MaxPeak-ClearWrite (dBμV/m)	Average-ClearWrite (dBμV/m)	Comment
6144.000000	48.2	35.2	
11431.000000	39.5	25.3	

Radiated Emission: CR0101 (1GHz to 12.5GHz Vertical polarization)

Project: 28057iem.002
 Company: TELIT
 Sample: S/01
 Operation mode: OM#01
 Date: 2008-09-10 14:59
 Setup: EMI radiated
 Mode: EUT ON.Wi-fi active. Vertical polarization.

FCC 1-12.5GHz class B



DataReduction Detector1

Frequency (MHz)	MaxPeak-ClearWrite (dBμV/m)	Average-ClearWrite (dBμV/m)	Comment
6634.000000	48.3	35.0	
12001.000000	39.9	25.5	

3. CONTINUOUS CONDUCTED EMISSION ON POWER LEADS

LIMITS:	Product standard :	FCC RULES AND REGULATIONS 47 CFR PART 15, SUBPART B.
	Test standard :	EN 55022 (2006)

CLASS B

The applied limit for continuous conducted emissions in power leads, according with the requirements of FCC Rules and Regulations 47 CFR Part 15, Subpart B in the frequency range 0,15 to 30 MHz, for Class B equipment was:

Frequency range (MHz)	Limit (dB μ V)	
	Quasi-peak	Average
0,15 to 0,5	66-56	56-46
0,5 to 5	56	46
5 to 30	60	50

TESTED SAMPLES:	S/22
TESTED OPERATION MODES:	OM#01 & OM#02
TEST RESULTS :	CCmmnnhh: CC, Conducted Condition; mm: Sample number; nn: Operation mode; hh: wire

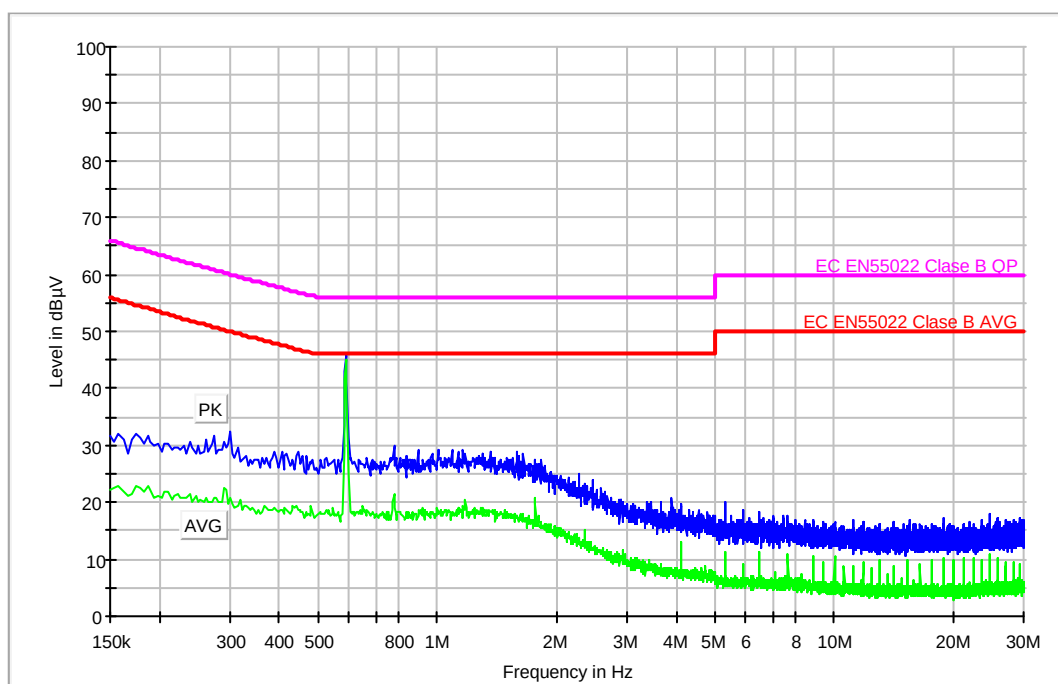
CCmmnnhh	Description	Result
CC2201PO	Positive wire noise	PASS
CC2201NE	Negative wire noise	PASS
CC2202PO	Positive wire noise	PASS
CC2202NE	Negative wire noise	PASS

Continuous Conducted emission : CC2201PO

Detector : Peak / Average / Cuasi-peak

Project: 28057iem.002
 Company: Telit
 Sample: S/22
 Operation mode: OM#01
 Date: 2008-09-11 17:44
 Setup: EMI conducted
 Mode: EUT ON. Reception mode. Positive noise.

EC EMI 55022 Class B ESPI CC



Max Pk-Avg

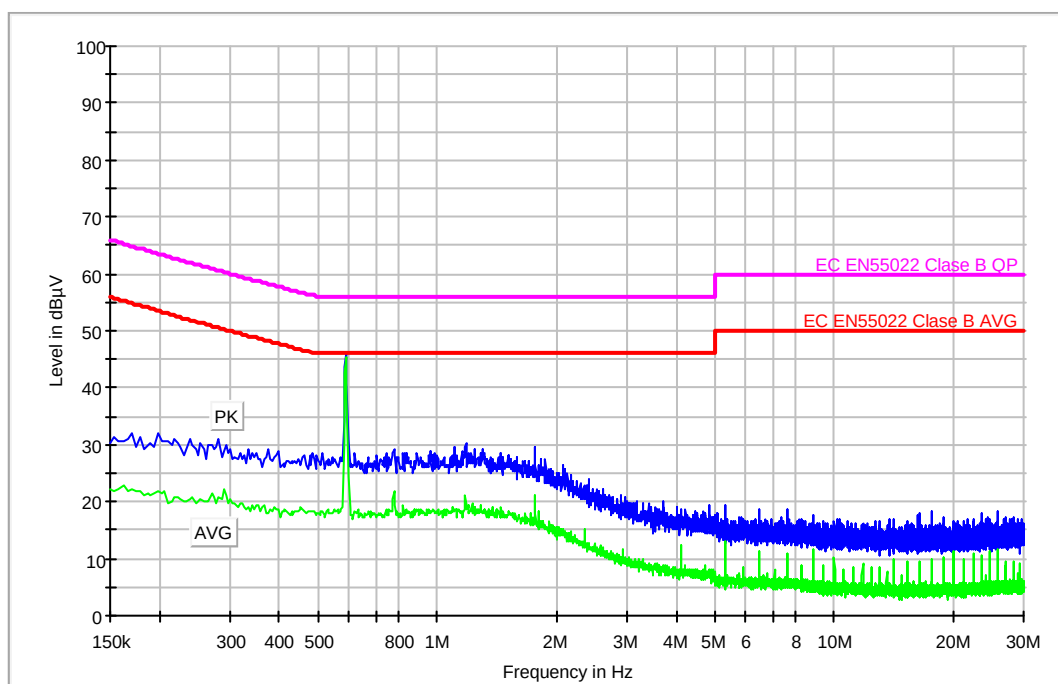
Frequency (MHz)	MaxPeak-ClearWrite (dBµV)	Average-ClearWrite (dBµV)
0.590000	45.8	45.1
24.734000	18.1	10.8

Continuous Conducted emission : CC2201NE

Detector : Peak / Average / Cuasi-peak

Project: 28057iem.002
 Company: Telit
 Sample: S/22
 Operation mode: OM#01
 Date: 2008-09-11 17:41
 Setup: EMI conducted
 Mode: EUT ON. Reception mode. Negative noise.

EC EMI 55022 Class B ESPI CC



Max Pk-Avg

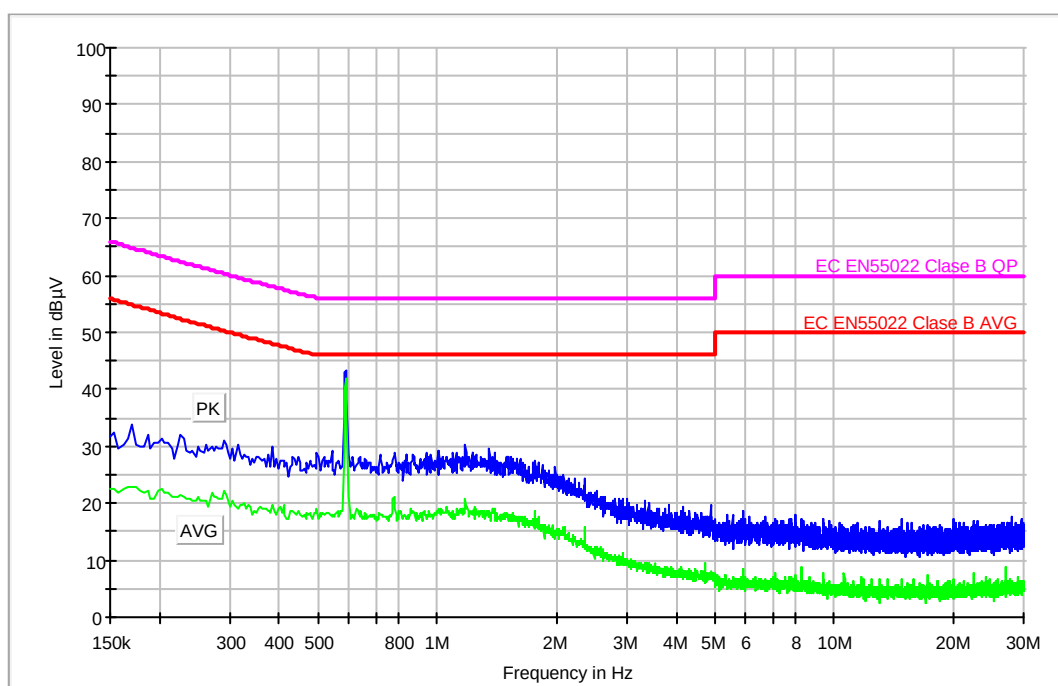
Frequency (MHz)	MaxPeak-ClearWrite (dBµV)	Average-ClearWrite (dBµV)
0.590000	46.0	45.4
25.902000	18.3	11.6
20.014000	16.2	11.4

Continuous Conducted emission : CC2202PO

Detector : Peak / Average / Cuasi-peak

Project: 28057iem.002
 Company: Telit
 Sample: S/22
 Operation mode: MO#02
 Date: 2008-09-11 17:51
 Setup: EMI conducted
 Mode: EUT ON. Transmission mode. Positive noise.

EC EMI 55022 Class B ESPI CC



Max Pk-Avg

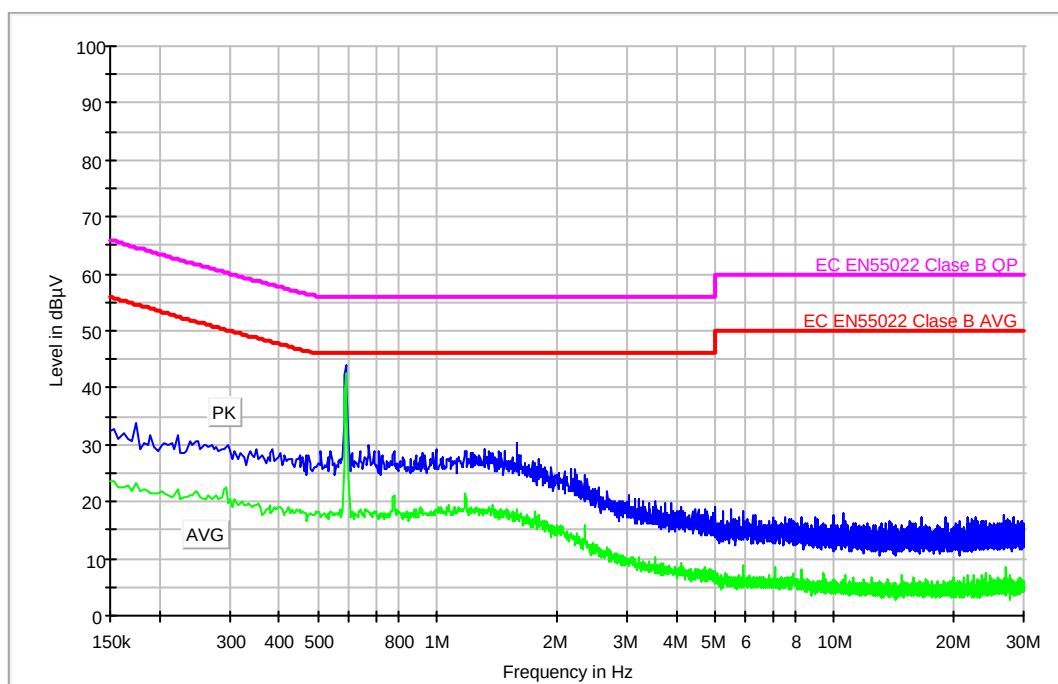
Frequency (MHz)	MaxPeak-ClearWrite (dBµV)	Average-ClearWrite (dBµV)
0.590000	43.3	42.0

Continuous Conducted emission : CC2202NE

Detector : Peak / Average / Cuasi-peak

Project: 28057iem.002
 Company: Telit
 Sample: S/22
 Operation mode: OM#02
 Date: 2008-09-11 17:56
 Setup: EMI conducted
 Mode: EUT ON. Transmission mode. Negative noise.

EC EMI 55022 Class B ESPI CC



Max Pk-Avg

Frequency (MHz)	MaxPeak-ClearWrite (dBµV)	Average-ClearWrite (dBµV)
0.590000	44.1	42.6