

Test Results

Radiated Emission of Carrier Frequency

Subclause 15.227(a)

RESULT:
Pass

Test Specification : FCC Part 15 Subclause 15.227(a)
 Test Method : ANSI 63.4-2003
 Measurement Location : Semi Anechoic Chamber
 Measurement Distance : 3m
 Detector Function : Peak and Average
 Measurement BW : 120 kHz
 Supply Voltage : DC 9V

Polarization: Vertical

Detector function	Frequency (MHz)	Measured Field strength at 3m (dBμV/m)	Delta to Limit (dB)
Peak	27.147	71.4	-28.6
Average	27.147	65.3	-14.7

Polarization: Horizontal

Detector function	Frequency (MHz)	Measured Field strength at 3m (dBμV/m)	Delta to Limit (dB)
Peak	27.147	58.1	-41.9
Average	27.147	52.2	-27.8

Limit
Subclause 15.227(a)

Frequency within the band	Peak Emission		Average Emission	
	(μV/m)	dBμV/m	(μV/m)	dBμV/m
26.96-27.28 MHz	100,000	100.0	10,000	80.0

According to section 15.35(b), when average radiated emission measurements are specified in this part, including average emission measurements below 1000 MHz, there also is a limit on the peak level of the radio frequency emissions. Unless otherwise specified, the limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test.

Spurious Radiated Emissions

Subclause 15.227(b)

RESULT:

Pass

Test Specification : FCC Part 15 Subclause 15.209
 Test Method : ANSI 63.4-2003
 Measurement Location : Semi Anechoic Chamber
 Measurement Distance : 3m
 Detector Function : Quasi Peak
 Measurement BW : 120 kHz
 Supply Voltage : DC 9V
 Measuring Frequency Range : 30-1000MHz

Polarization: Vertical

Frequency (MHz)	Field strength at 3m (dBuV/m)	Limit at 3m (dBuV/m)	Delta to Limit (dB)
54.295	19.7	40.0	-20.3
81.443	16.7	40.0	-23.3
*108.590	17.5	43.5	-26.0
*135.738	11.3	43.5	-32.2
*162.886	20.7	43.5	-22.8
190.035	24.3	43.5	-19.2
217.180	22.8	46.0	-23.2
*244.328	23.2	46.0	-22.8
*271.478	27.0	46.0	-19.0

Polarization: Horizontal

Frequency (MHz)	Field strength at 3m (dBuV/m)	Limit at 3m (dBuV/m)	Delta to Limit (dB)
54.295	13.8	40.0	-26.2
81.443	10.0	40.0	-30.0
*108.590	11.7	43.5	-31.8
*135.738	9.2	43.5	-34.3
*162.886	15.8	43.5	-27.7
190.034	16.9	43.5	-26.6
217.180	13.8	46.0	-32.2
*244.328	16.2	46.0	-29.8
*271.476	18.5	46.0	-27.5

Remark: (1) '*' indicates the frequency of the emissions fall into the restricted band as defined in Section 15.205(a). They comply with the radiated emission limits specified in Section 15.209.
 (2) There is no spurious emission found between lowest oscillating frequency to 30 MHz.

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Limit

Subclause 15.209

Radiated emissions, which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209.

Limit for Radiated Emission under Section 15.209:

Frequency (MHz)	Field strength ($\mu\text{V/m}$)	Field strength (dB $\mu\text{V/m}$)	Measurement distance (m)
30-88	100	$20 \cdot \log(100) = 40.0$	3
88-216	150	$20 \cdot \log(150) = 43.5$	3
216-960	200	$20 \cdot \log(200) = 46.0$	3
960-2500	500	$20 \cdot \log(500) = 54.0$	3

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector and above 1000 MHz are based on the measurements employing an average detector.

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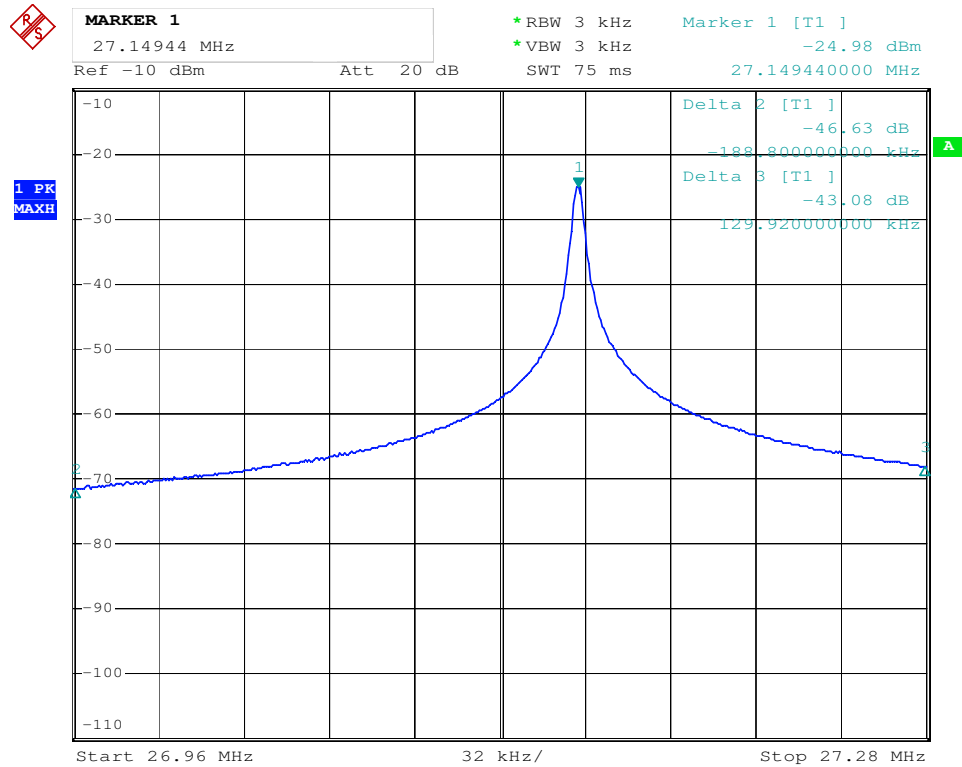
Bandwidth Measurement

Port of Testing	:	Antenna port
Detector Function	:	Peak
Supply Voltage	:	DC 9V

The field strength of any emissions appearing at the lower edge 26.96 MHz and upper edge 27.28 MHz are 46.63 dB and 43.08 dB below the carrier respectively.

For test results refer to Appendix 1.

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Bandwidth measurement