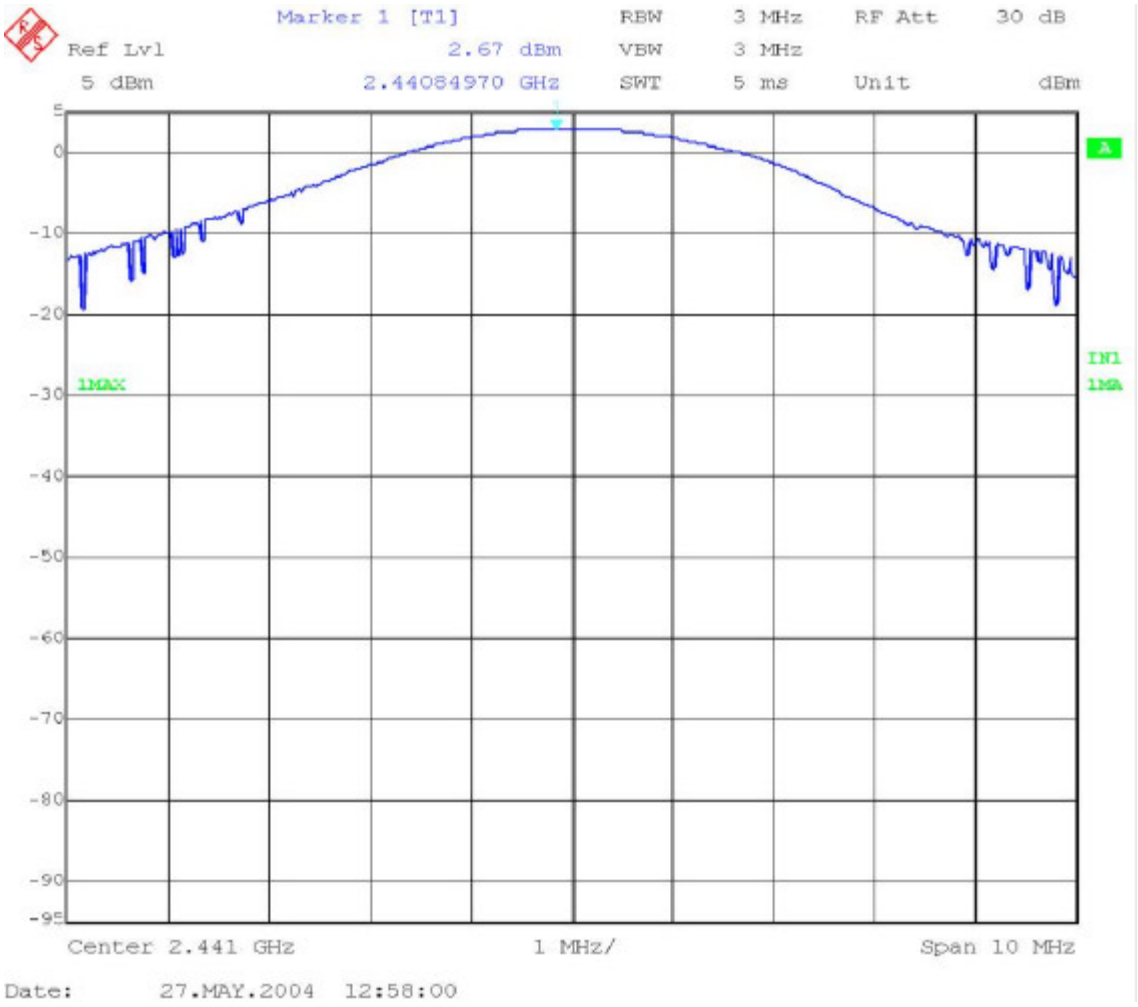
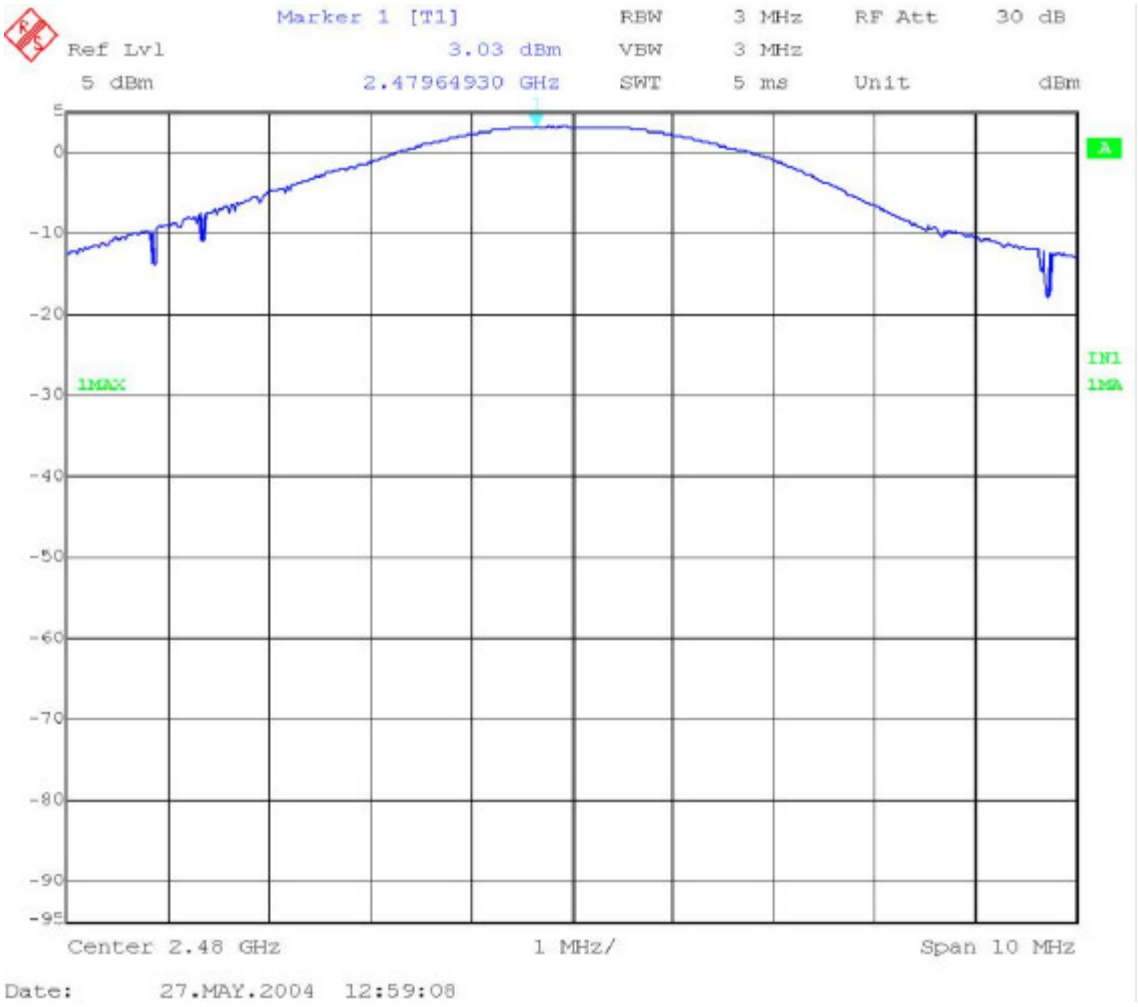
PEAK OUTPUT POWER (CONDUCTED).

Middle Channel: 2441 MHz.



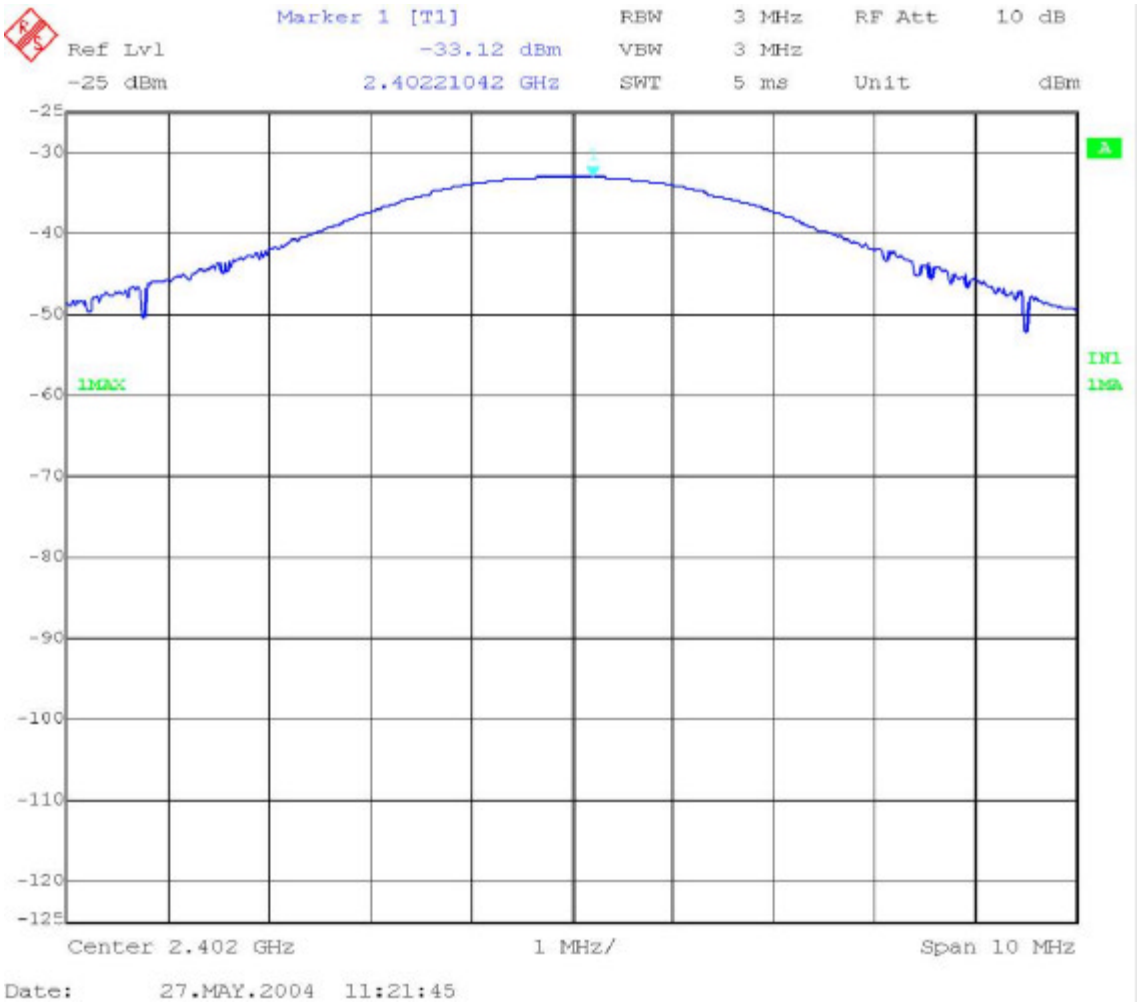
PEAK OUTPUT POWER (CONDUCTED).

Highest Channel: 2480 MHz.



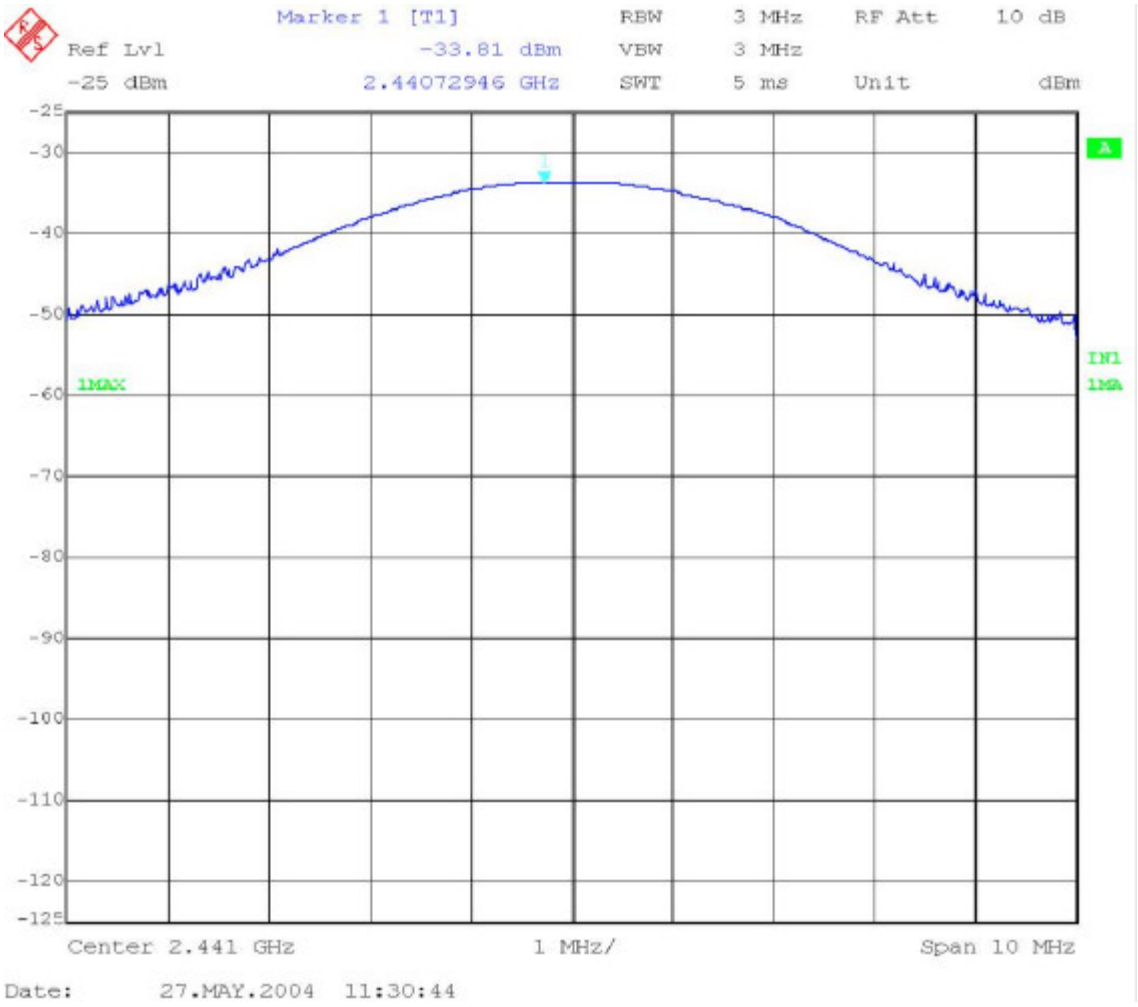
PEAK OUTPUT POWER (RADIATED).

Lowest Channel: 2402 MHz.



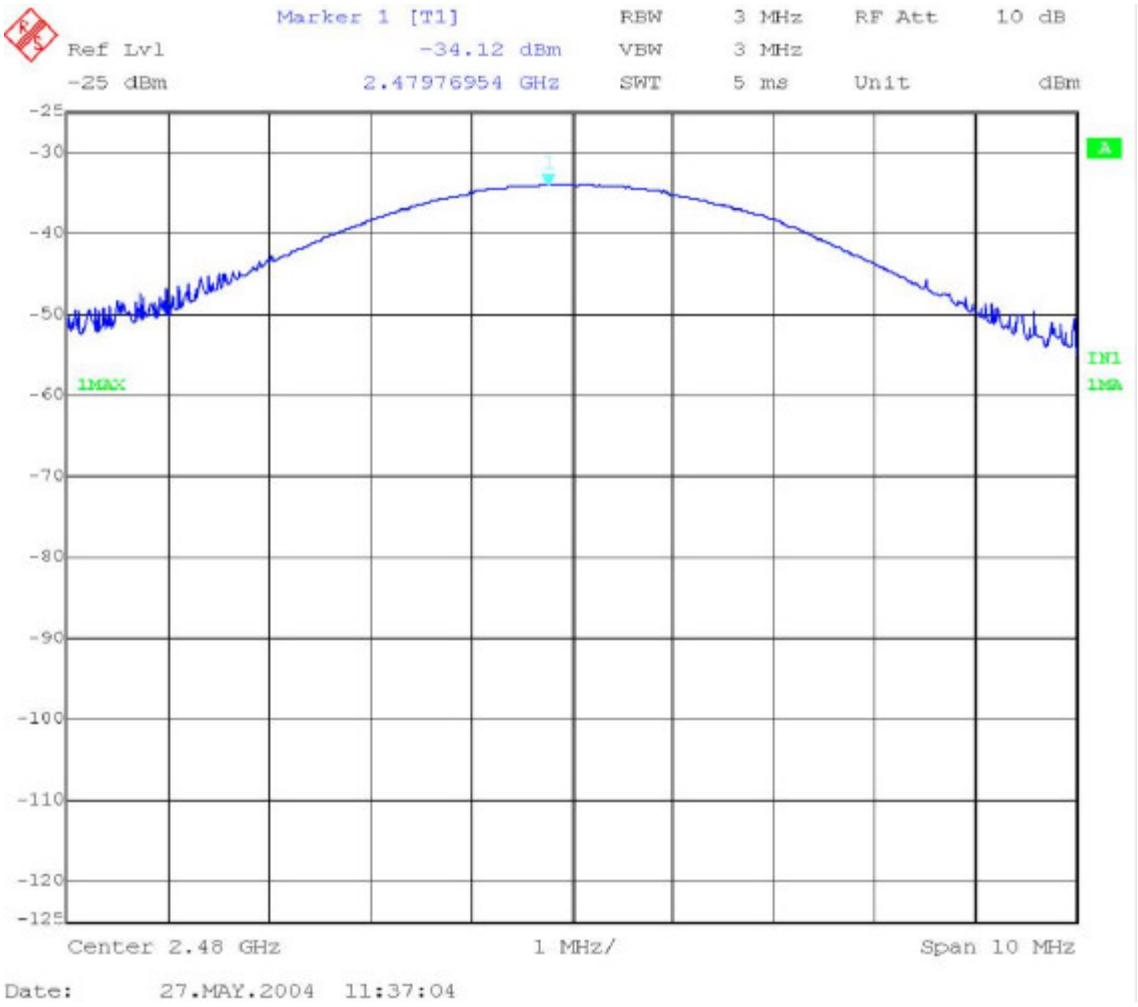
PEAK OUTPUT POWER (RADIATED).

Middle Channel: 2441 MHz.



PEAK OUTPUT POWER (RADIATED).

Highest Channel: 2480 MHz.



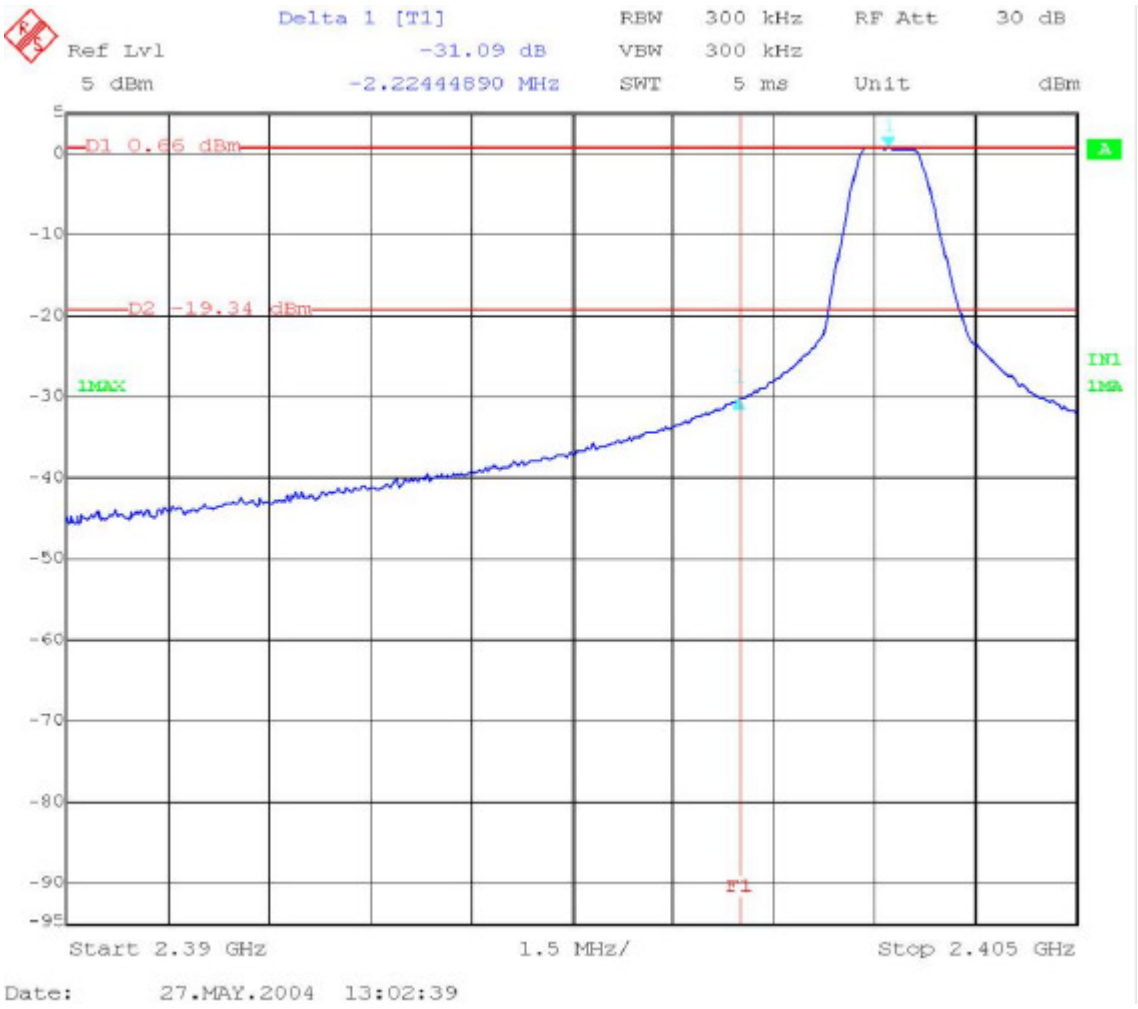
Section 15.247 Subclause (c). Band-edge of conducted emissions (Transmitter)

SPECIFICATION

Emissions outside the frequency band in which the intentional radiator is operating shall be at least 20dB below the highest level of the desired power.

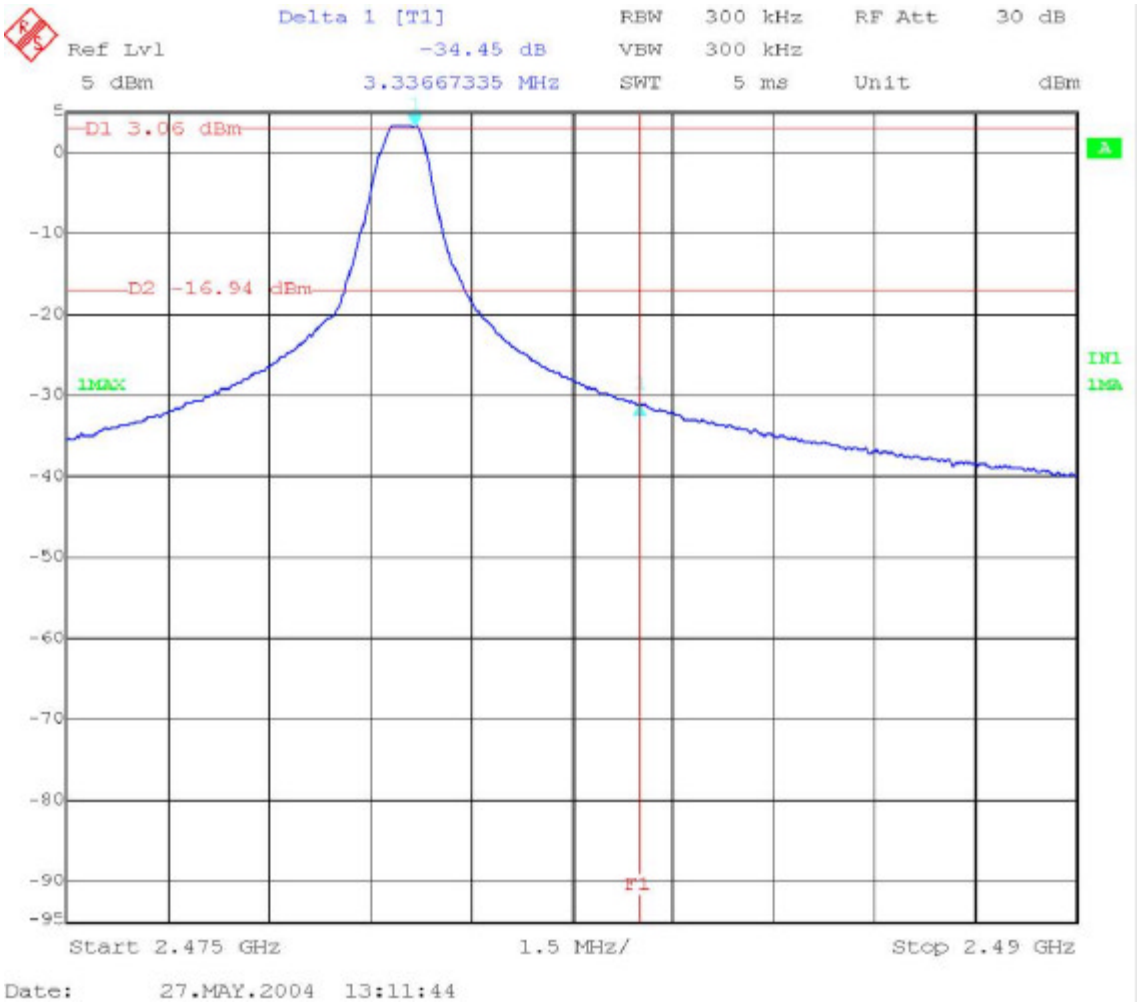
RESULTS:

1. LOW FREQUENCY SECTION 2402 MHz (HOPPING OFF). See next plot.



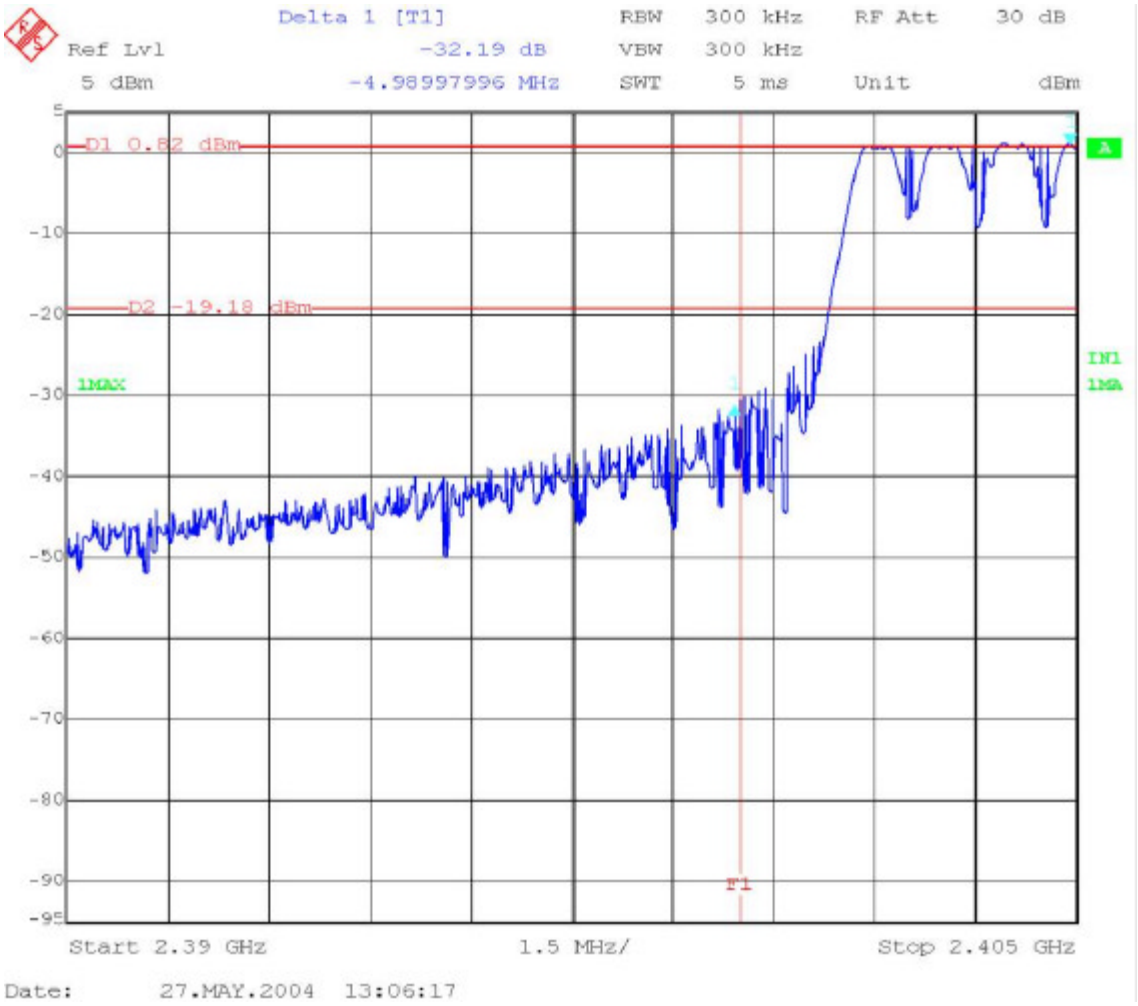
Verdict: PASS

2. HIGH FREQUENCY SECTION 2480 MHz (HOPPING OFF). See next plot.



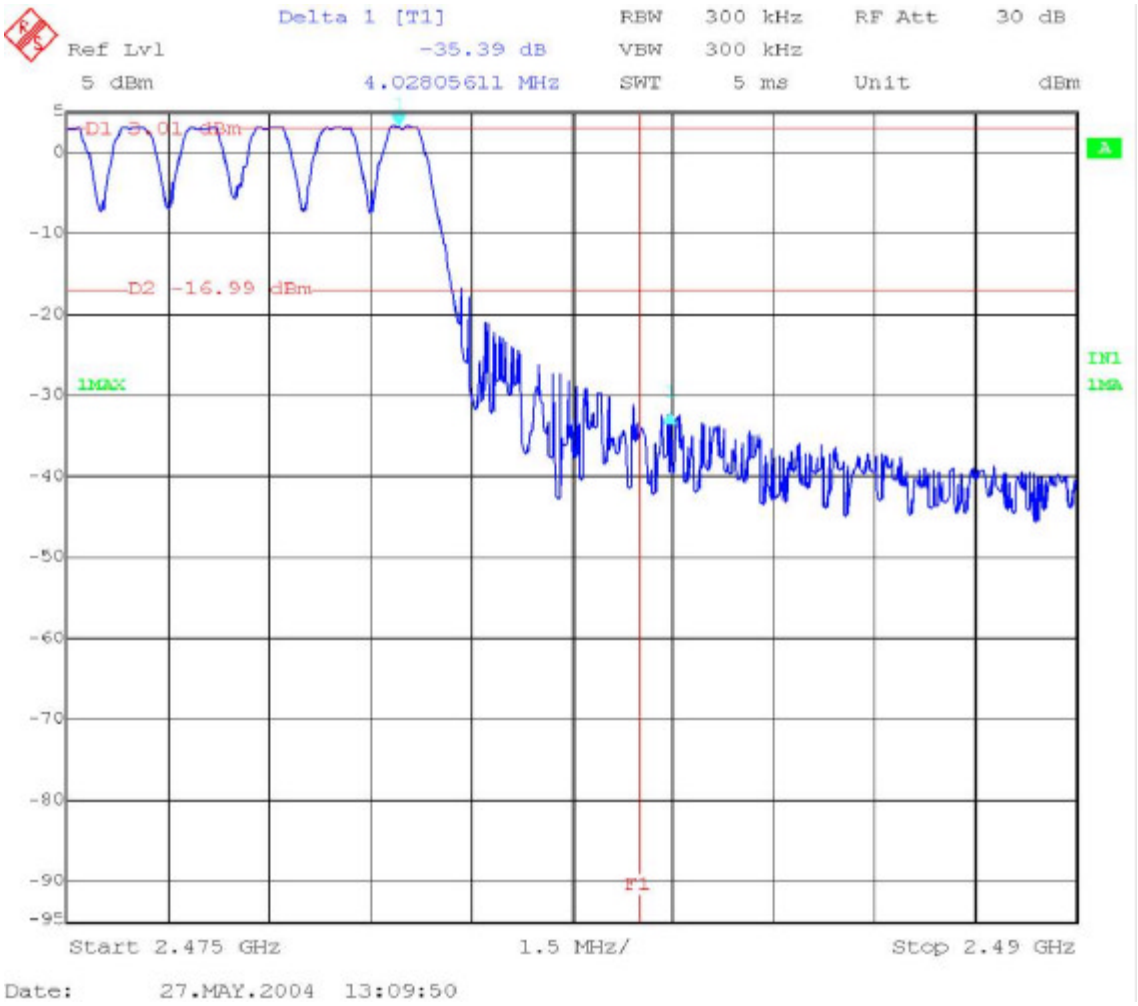
Verdict: PASS

3. LOW FREQUENCY SECTION (HOPPING ON). See next plot.



Verdict: PASS

4. HIGH FREQUENCY SECTION (HOPPING ON). See next plot.



Verdict: PASS

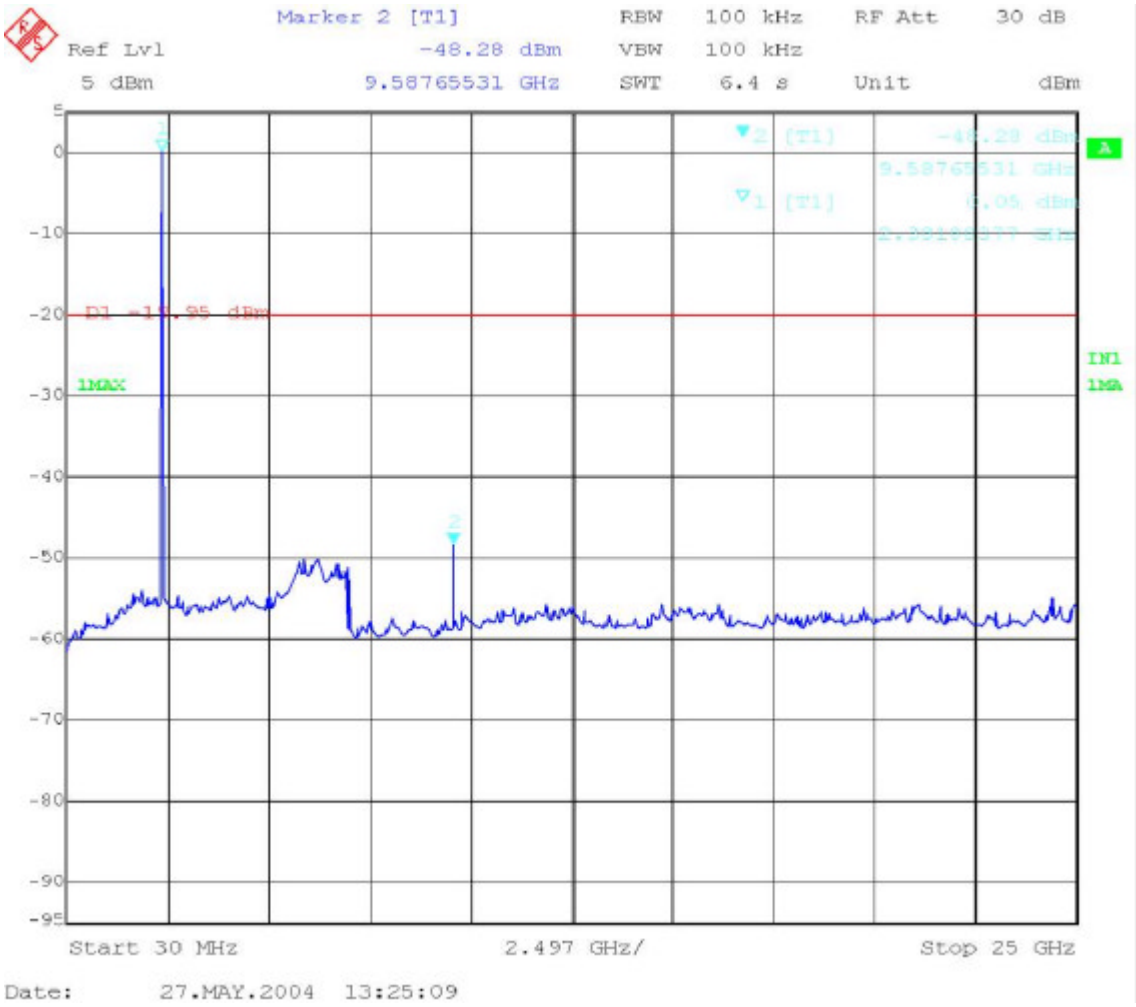
Section 15.247 Subclause (c). Emission limitations conducted (Transmitter)

SPECIFICATION

In any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

RESULTS:

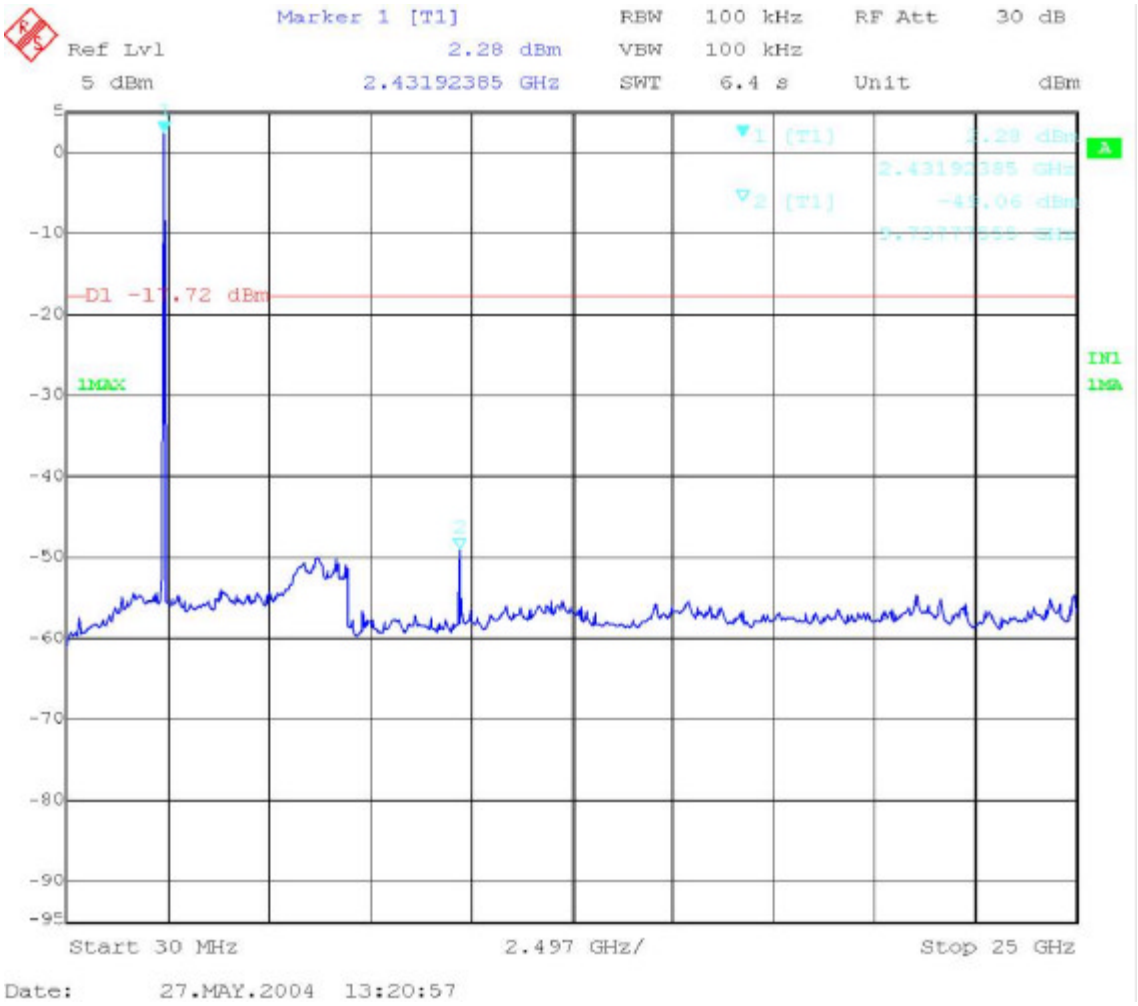
1. LOWEST CHANNEL (2402 MHz): 30 MHz-25 GHz (see next plot).



Note: The peak above the limit is the carrier frequency.

Verdict: PASS

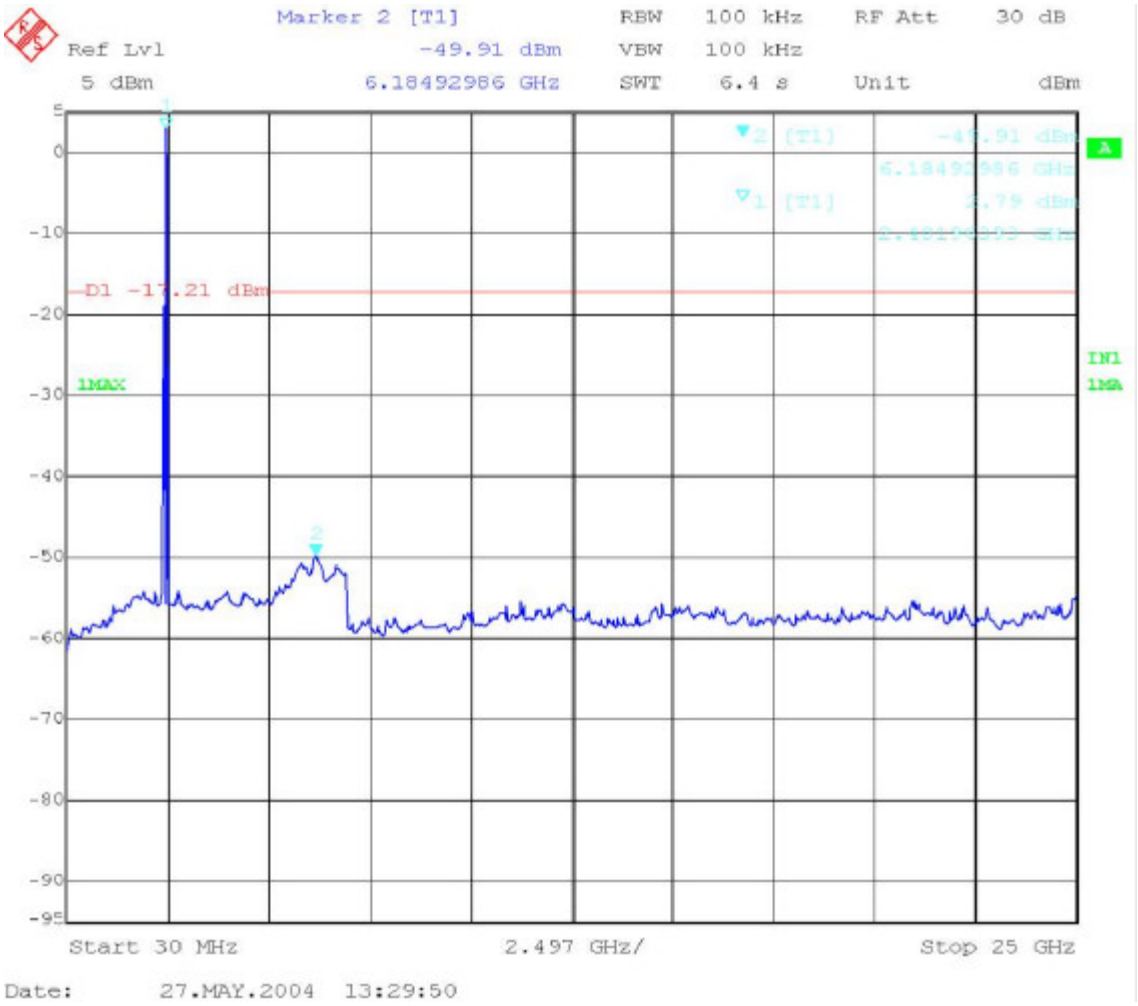
2. MIDDLE CHANNEL (2441 MHz): 30 MHz-25 GHz (see next plot).



Note: The peak above the limit is the carrier frequency.

Verdict: PASS

3. HIGH CHANNEL (2480 MHz): 30 MHz-25 GHz (see next plot).



Note: The peak above the limit is the carrier frequency.

Verdict: PASS

Section 15.247 Subclause (c). Emission limitations radiated (Transmitter)

SPECIFICATION

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

Frequency Range (MHz)	Field strength (µV/m)	Field strength (dBµV/m)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	300
1.705 - 30.0	30	-	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 25000	500	54	3

The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

RESULTS:

The field strength is calculated by adding correction factor to the measured level from the spectrum analyser. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

The equipment transmits continuously in the selected channel so it is not necessary a duty cycle correction factor.

1. TRANSMITTER OPERATING IN CHANNEL: LOWEST (2402 MHz).

Frequency range 30 MHz-1000 MHz.

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dBµV/m)	Uncertainty (dB)
45.410	H	Quasi-peak	13.6	±3.8 dB
45.560	V	Quasi-peak	20.1	±3.8 dB
47.210	V	Quasi-peak	19.0	±3.8 dB
189.100	H	Quasi-peak	12.5	±3.8 dB
232.200	V	Quasi-peak	16.6	±3.8 dB

Frequency range 1 GHz-25 GHz.

No spurious signals were found in all the range.

Additionally, no spurious signals were found inside the restricted bands 2310-2390 MHz and 2483.5-2500 MHz

Verdict: PASS.

2. TRANSMITTER OPERATING IN CHANNEL: MIDDLE (2441 MHz).

Frequency range 30 MHz-1000 MHz.

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dBµV/m)	Uncertainty (dB)
45.160	V	Quasi-peak	21.1	±3.8 dB
46.110	H	Quasi-peak	12.7	±3.8 dB
237.900	V	Quasi-peak	15.6	±3.8 dB

Frequency range 1 GHz-25 GHz.

No spurious signals were found in all the range.

Additionally, no spurious signals were found inside the restricted bands 2310-2390 MHz and 2483.5-2500 MHz

Verdict: PASS.

3. TRANSMITTER OPERATING IN CHANNEL: HIGHEST (2480 MHz).

Frequency range 30 MHz-1000 MHz.

Spurious frequency (MHz)	Polarization	Detector	Emission Level (dBµV/m)	Uncertainty (dB)
44.680	H	Quasi-peak	12.6	±3.8 dB
45.930	V	Quasi-peak	20.5	±3.8 dB
182.430	H	Quasi-peak	13.1	±3.8 dB
189.060	V	Quasi-peak	13.2	±3.8 dB

Frequency range 1 GHz-25 GHz.

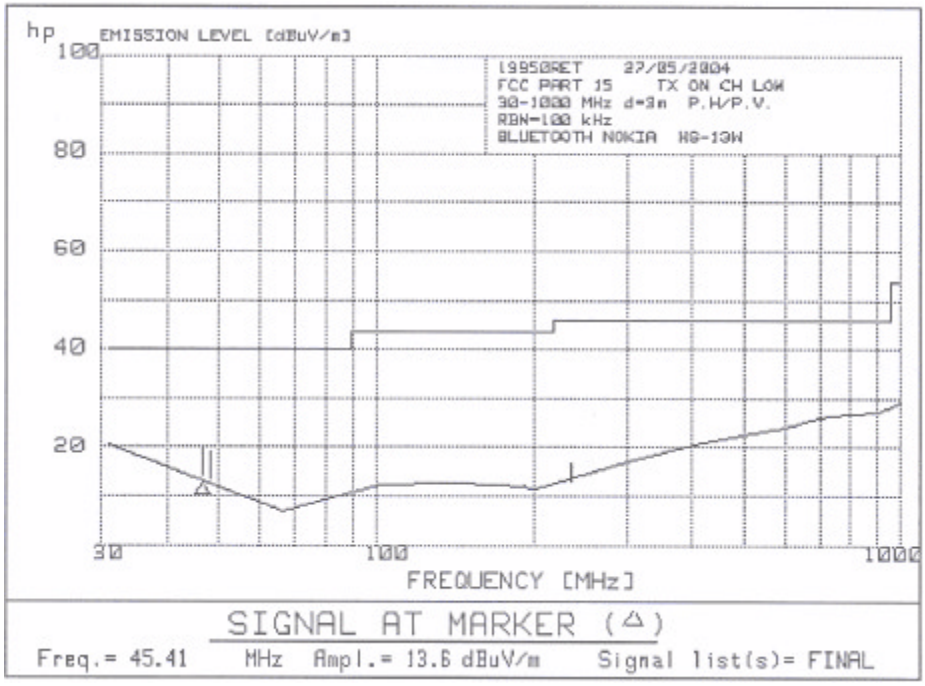
No spurious signals were found in all the range.

Additionally, no spurious signals were found inside the restricted bands 2310-2390 MHz and 2483.5-2500 MHz

Verdict: PASS.

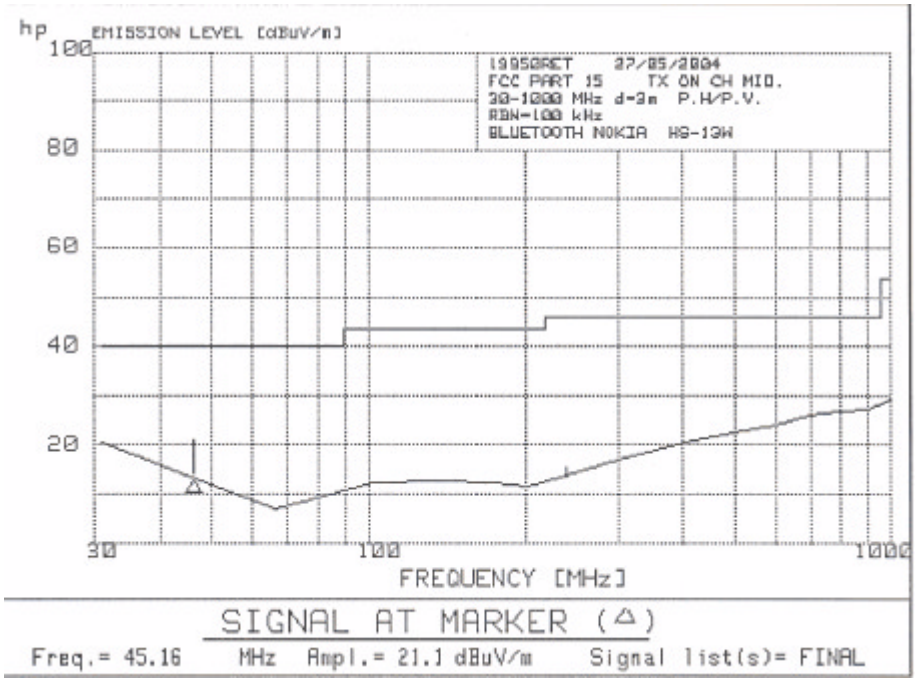
FREQUENCY RANGE 30 MHz-1000 MHz.

Channel: Lowest (2402 MHz).



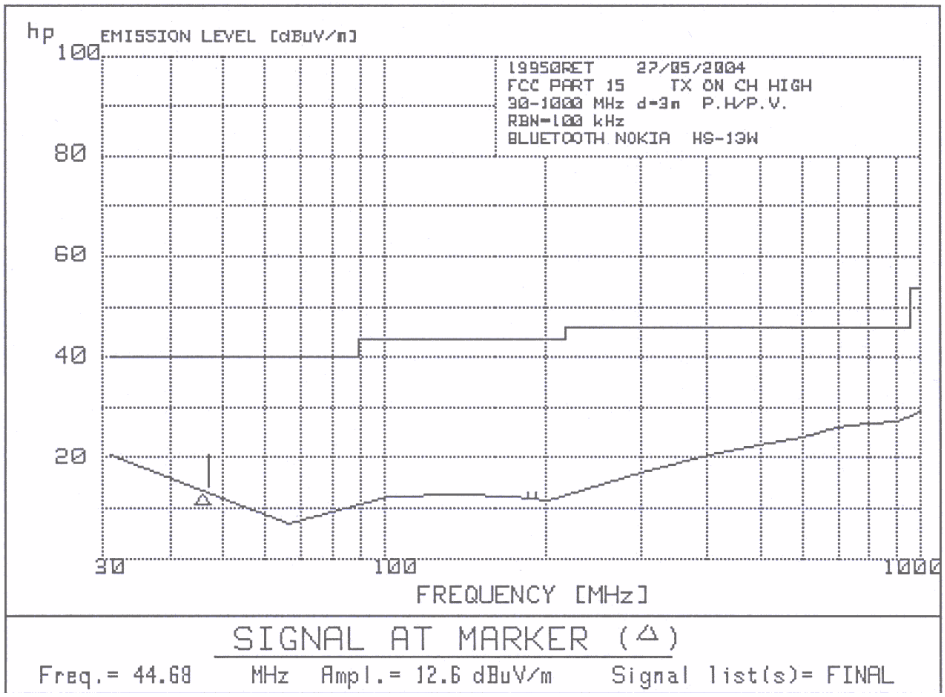
Resolution bandwidth = 100 kHz. Video bandwidth = 100 kHz.

Channel: Middle (2441 MHz).



Resolution bandwidth = 100 kHz. Video bandwidth = 100 kHz.

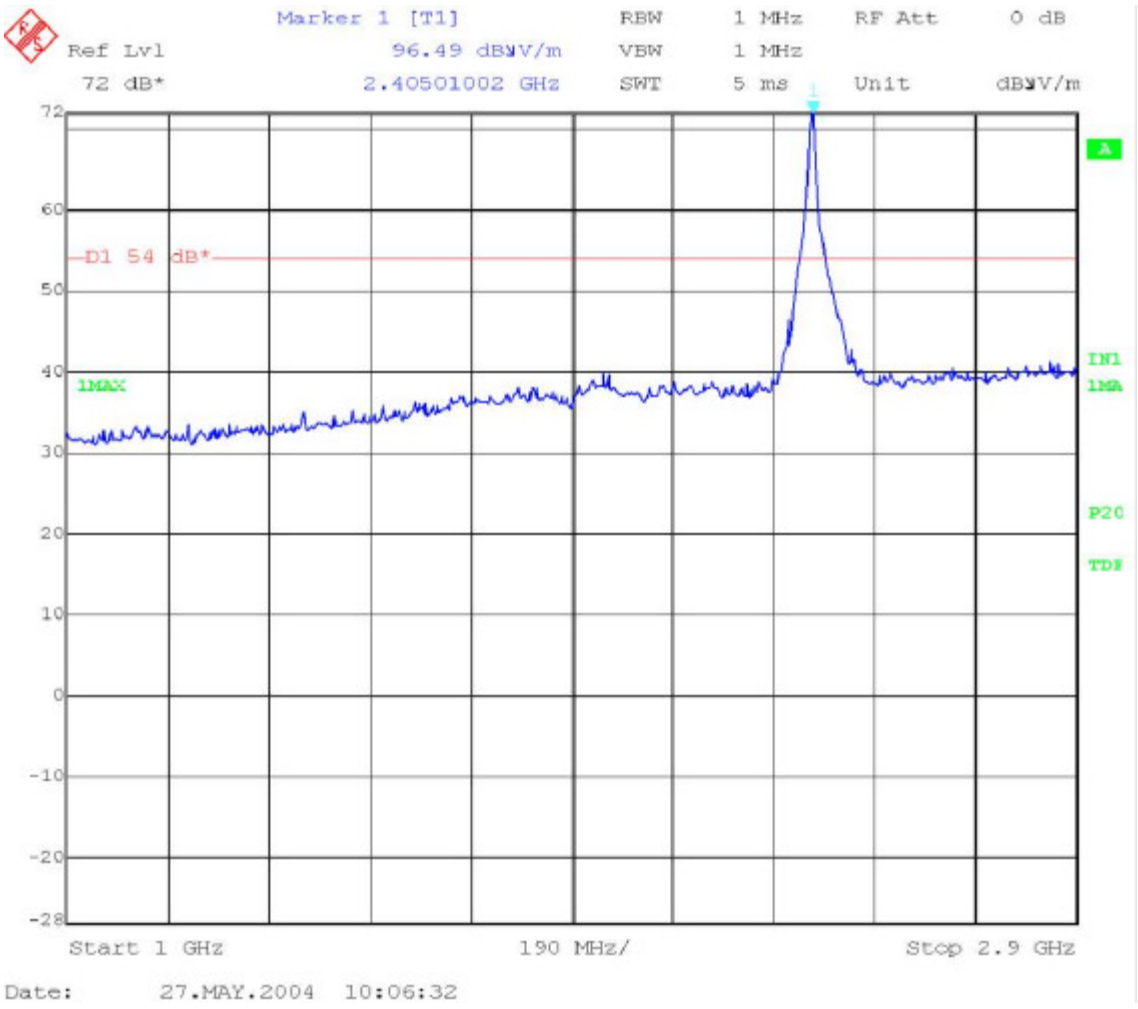
Channel: Highest (2480 MHz).



Resolution bandwidth = 100 kHz. Video bandwidth = 100 kHz.

FREQUENCY RANGE 1 GHz to 2.9 GHz.

CHANNEL: Lowest (2402 MHz).



Note: The peak above the limit is the carrier frequency.