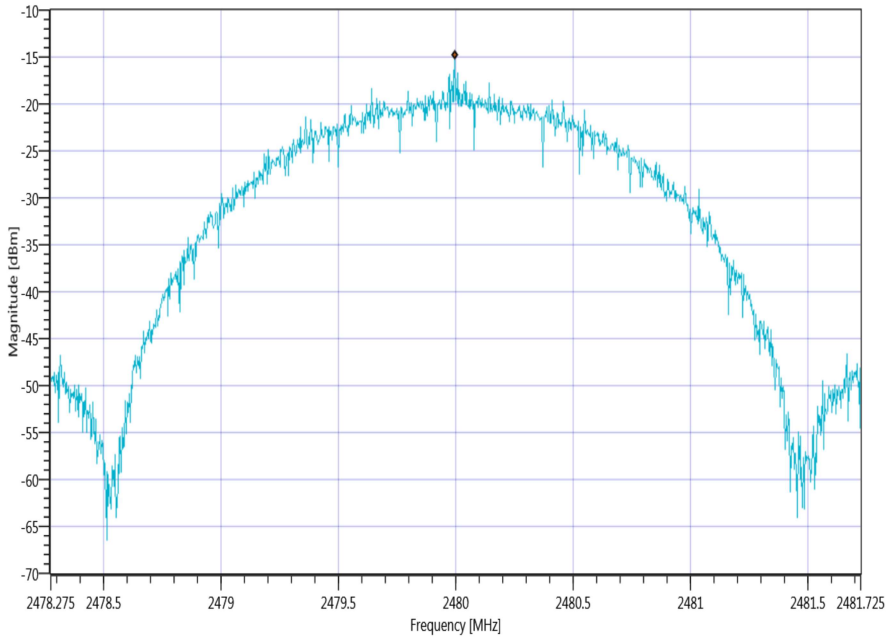
Plot 6: highest channel, 2 Msps



Spectrum analyzer settings read out	
Ref. Level [dBm]	11.54
Ref. Lev. offs [dB]	9.54
Input Attenuation [dB]	20
Freq. Start [MHz]	2478.275
Freq. Stop [MHz]	2481.725
Resolution BW. [MHz]	0.003000
Video BW. [MHz]	0.010000
Detector	POS
Sweep Time [ms]	1000
Sweep Count	10
Sweep Mode	WRIT
Used Sweep Type	SWE

11.3 DTS bandwidth – 6 dB bandwidth

Description:

Measurement of the 6 dB bandwidth of the modulated signal.

Measurement parameters	
According to DTS clause: 8.1	
Test setup	See sub clause 6.4 A
Measurement uncertainty	See sub clause 8

Limits:

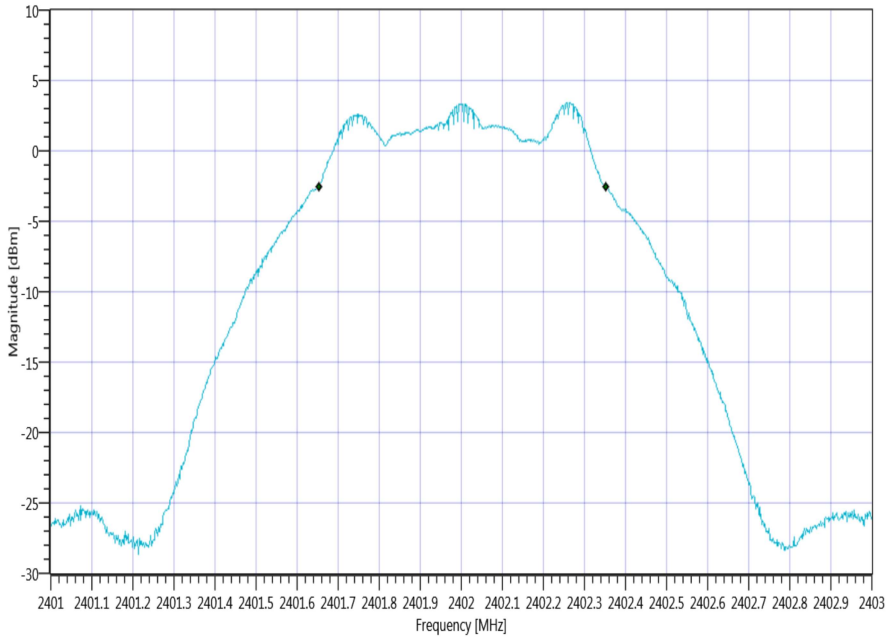
FCC	IC
DTS bandwidth – 6 dB bandwidth	
Systems using digital modulation techniques may operate in the 2400–2483.5 MHz band. The minimum 6 dB bandwidth shall be at least 500 kHz.	

Results:

	Frequency		
	2402 MHz	2440 MHz	2480 MHz
6 dB bandwidth 1 Msps [kHz]	698	710	716
6 dB bandwidth 2 Msps [kHz]	1155	1145	1145

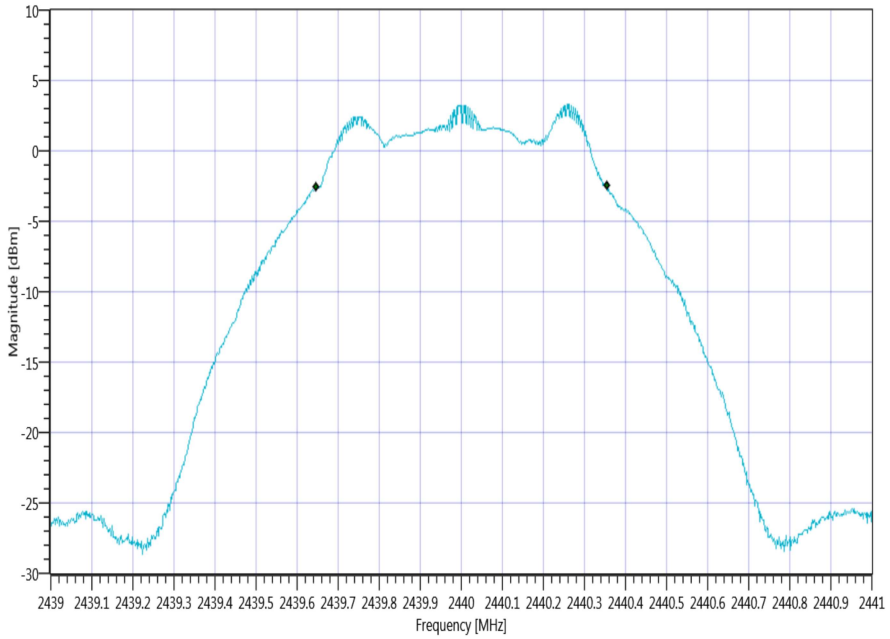
Plots:

Plot 1: lowest channel, 1 Msps



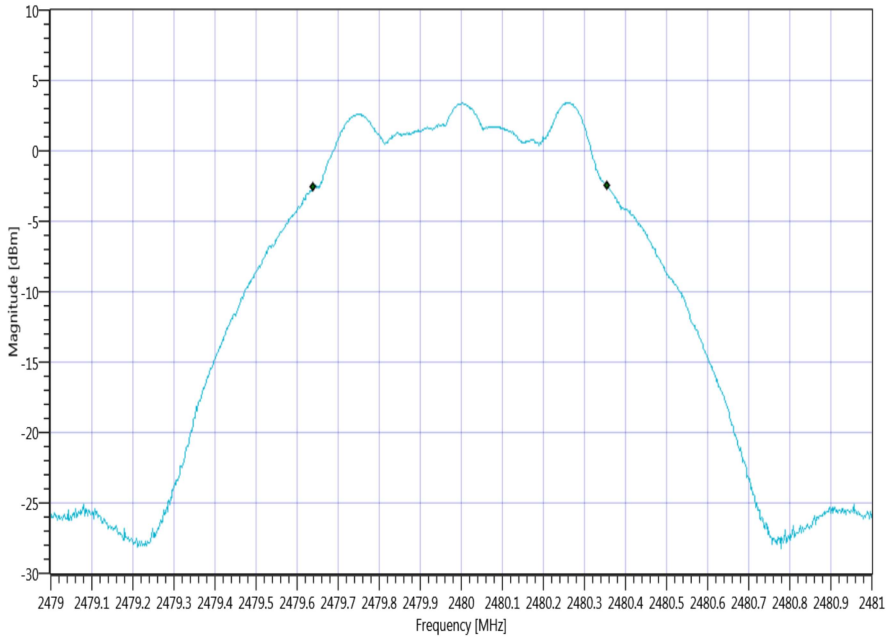
Spectrum analyzer settings read out	
Ref. Level [dBm]	8.64
Ref. Lev. offs [dB]	9.54
Input Attenuation [dB]	15
Freq. Start [MHz]	2401.000
Freq. Stop [MHz]	2403.000
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	1000
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

Plot 2: mid channel, 1 Msps



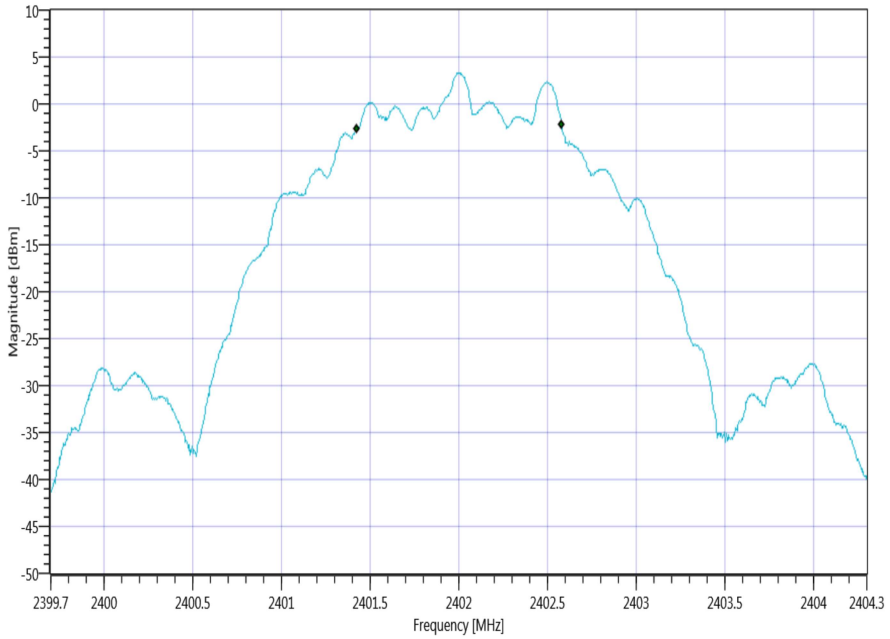
Spectrum analyzer settings read out	
Ref. Level [dBm]	8.46
Ref. Lev. offs [dB]	9.53
Input Attenuation [dB]	15
Freq. Start [MHz]	2439.000
Freq. Stop [MHz]	2441.000
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	1000
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

Plot 3: highest channel, 1 Msps



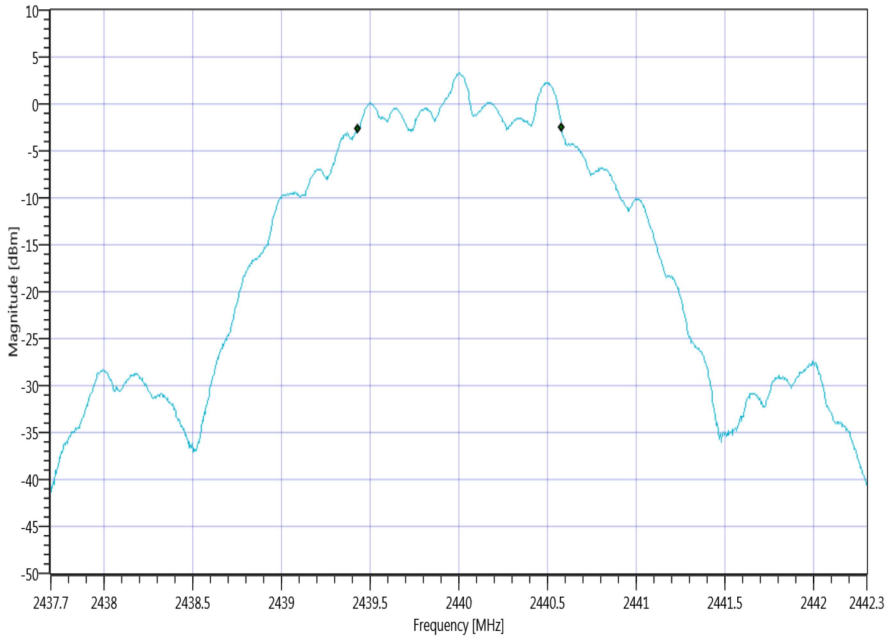
Spectrum analyzer settings read out	
Ref. Level [dBm]	8.53
Ref. Lev. offs [dB]	9.54
Input Attenuation [dB]	15
Freq. Start [MHz]	2479.000
Freq. Stop [MHz]	2481.000
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	1000
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

Plot 4: lowest channel, 2 Msps



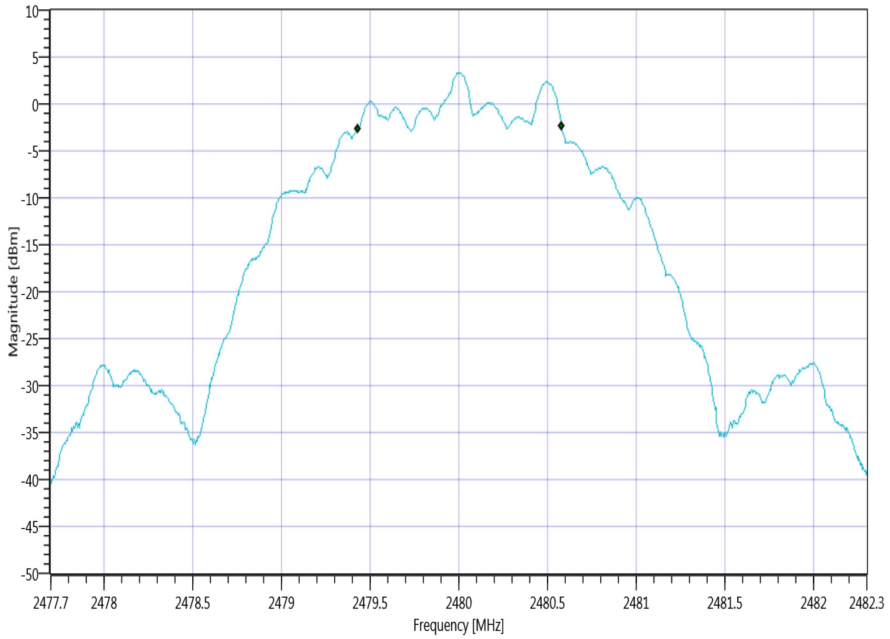
Spectrum analyzer settings read out	
Ref. Level [dBm]	8.62
Ref. Lev. offs [dB]	9.54
Input Attenuation [dB]	15
Freq. Start [MHz]	2399.700
Freq. Stop [MHz]	2404.300
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	1000
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

Plot 5: mid channel, 2 Msps



Spectrum analyzer settings read out	
Ref. Level [dBm]	8.46
Ref. Lev. offs [dB]	9.53
Input Attenuation [dB]	15
Freq. Start [MHz]	2437.700
Freq. Stop [MHz]	2442.300
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	1000
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

Plot 6: highest channel, 2 Msps



Spectrum analyzer settings read out	
Ref. Level [dBm]	8.51
Ref. Lev. offs [dB]	9.54
Input Attenuation [dB]	15
Freq. Start [MHz]	2477.700
Freq. Stop [MHz]	2482.300
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	1000
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

11.4 Occupied bandwidth – 99% emission bandwidth

Description:

Measurement of the 99% bandwidth of the modulated signal acc. RSS-GEN.

Measurement parameters	
Test setup	See sub clause 6.4 A
Measurement uncertainty	See sub clause 8

Usage:

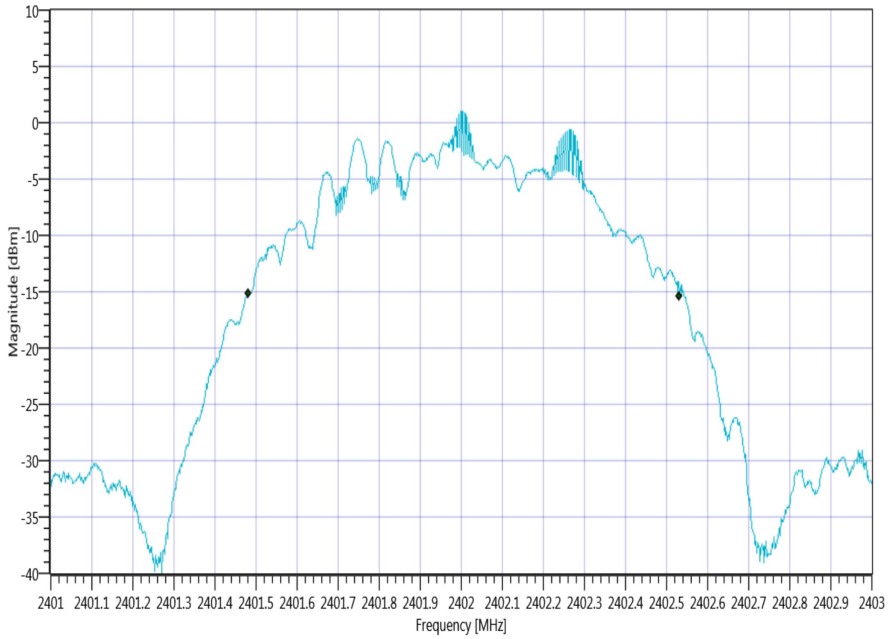
-/-	IC
Occupied bandwidth – 99% emission bandwidth	
OBW is necessary for emission designator	

Results:

	Frequency		
	2402 MHz	2440 MHz	2480 MHz
99% bandwidth 1 Msps [kHz]	1051	1059	1053
99% bandwidth 2 Msps [kHz]	2063	2068	2073

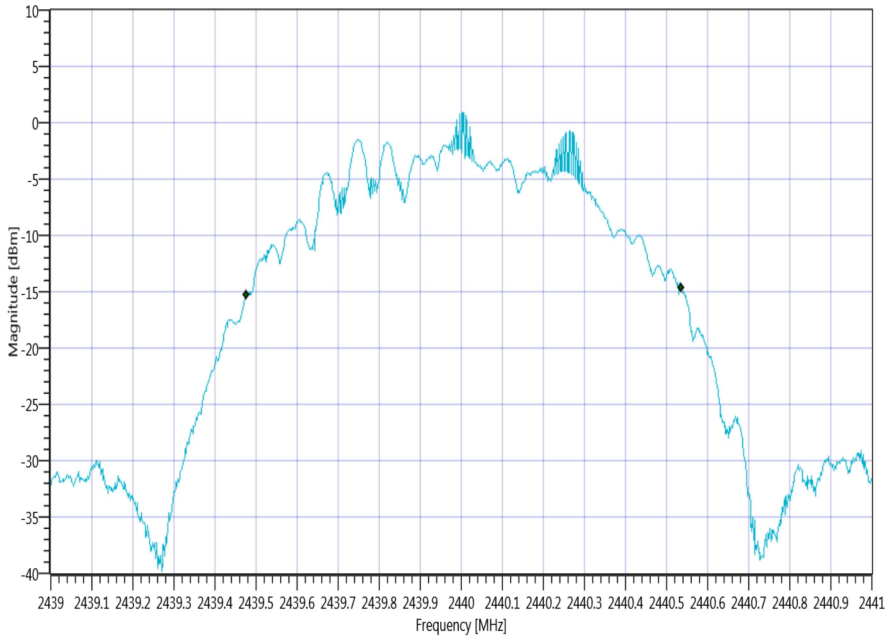
Plots:

Plot 1: lowest channel, 1 Msps



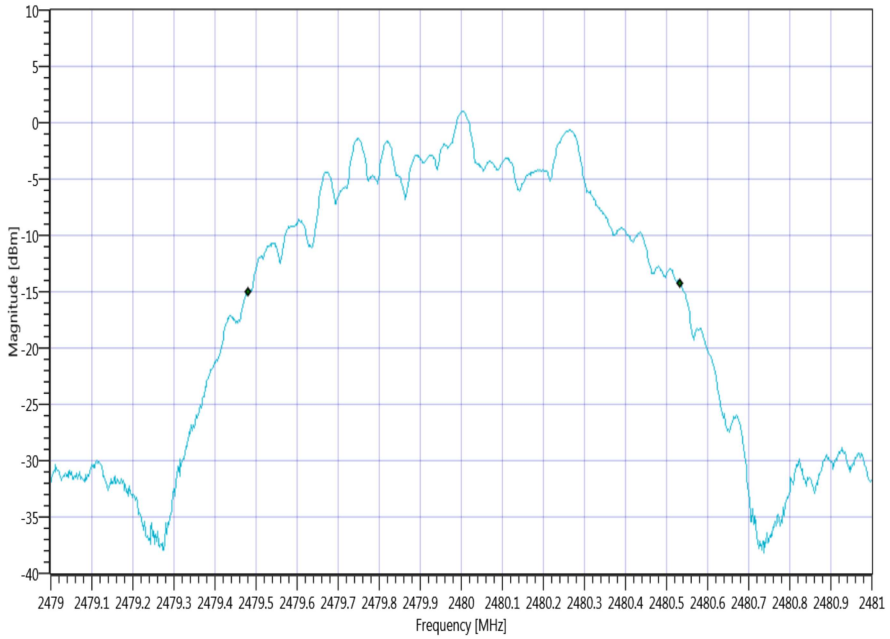
Spectrum analyzer settings read out	
Ref. Level [dBm]	11.61
Ref. Lev. offs [dB]	9.54
Input Attenuation [dB]	20
Freq. Start [MHz]	2401.000
Freq. Stop [MHz]	2403.000
Resolution BW. [MHz]	0.030000
Video BW. [MHz]	0.100000
Detector	POS
Sweep Time [ms]	1000
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

Plot 2: mid channel, 1 Msps



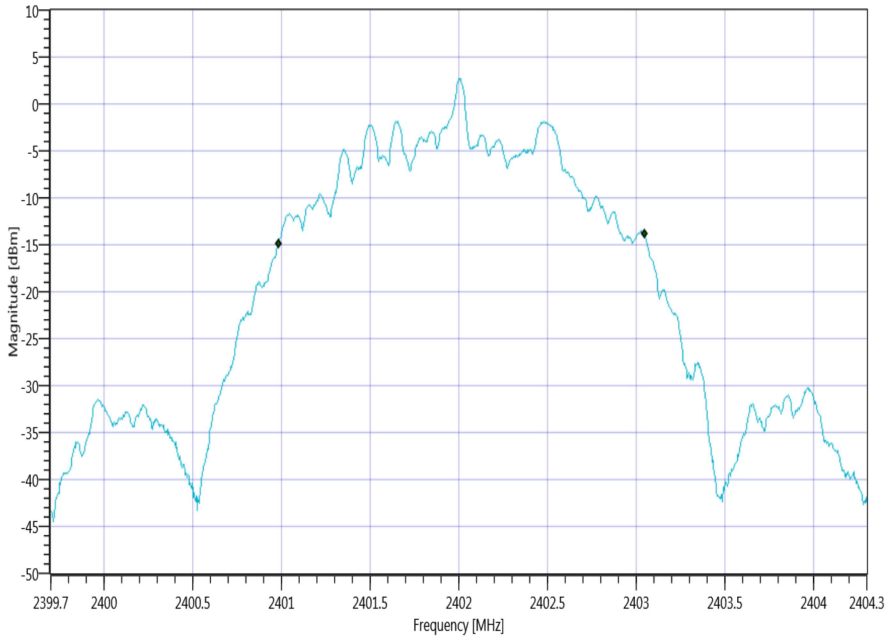
Spectrum analyzer settings read out	
Ref. Level [dBm]	11.47
Ref. Lev. offs [dB]	9.53
Input Attenuation [dB]	20
Freq. Start [MHz]	2439.000
Freq. Stop [MHz]	2441.000
Resolution BW. [MHz]	0.030000
Video BW. [MHz]	0.100000
Detector	POS
Sweep Time [ms]	1000
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

Plot 3: highest channel, 1 Msps



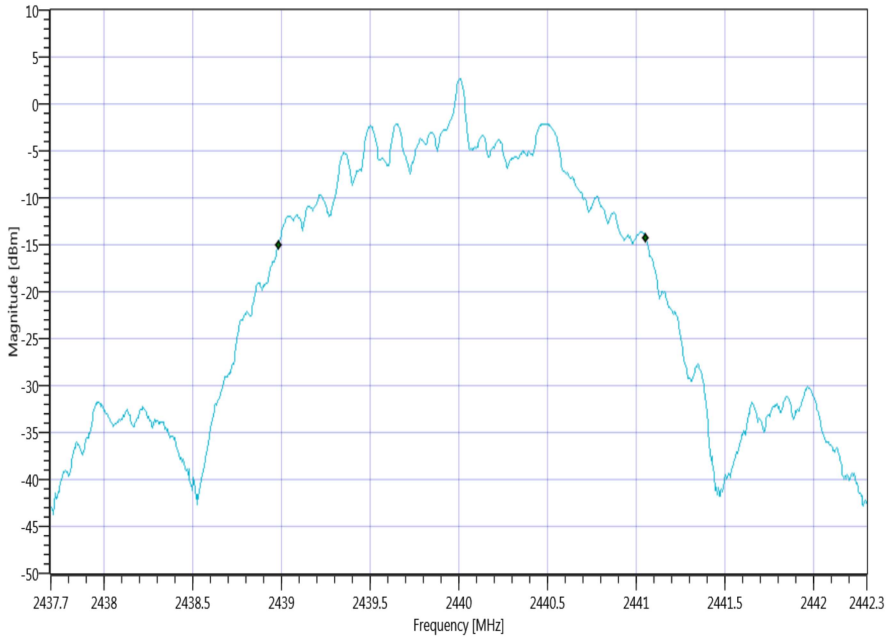
Spectrum analyzer settings read out	
Ref. Level [dBm]	11.54
Ref. Lev. offs [dB]	9.54
Input Attenuation [dB]	20
Freq. Start [MHz]	2479.000
Freq. Stop [MHz]	2481.000
Resolution BW. [MHz]	0.030000
Video BW. [MHz]	0.100000
Detector	POS
Sweep Time [ms]	1000
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

Plot 4: lowest channel, 2 Msps



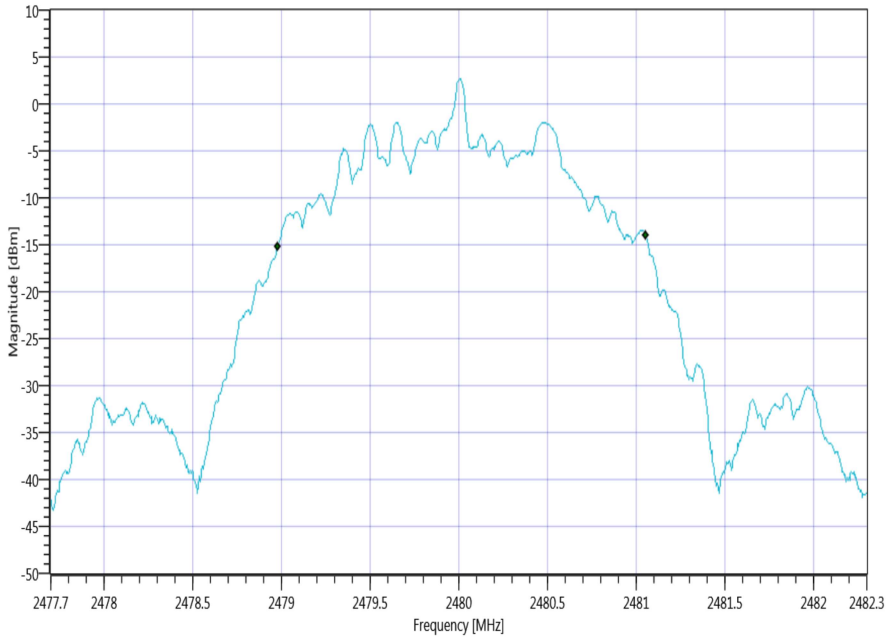
Spectrum analyzer settings read out	
Ref. Level [dBm]	11.58
Ref. Lev. offs [dB]	9.54
Input Attenuation [dB]	20
Freq. Start [MHz]	2399.700
Freq. Stop [MHz]	2404.300
Resolution BW. [MHz]	0.050000
Video BW. [MHz]	0.200000
Detector	POS
Sweep Time [ms]	1000
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

Plot 5: mid channel, 2 Msps



Spectrum analyzer settings read out	
Ref. Level [dBm]	11.47
Ref. Lev. offs [dB]	9.53
Input Attenuation [dB]	20
Freq. Start [MHz]	2437.700
Freq. Stop [MHz]	2442.300
Resolution BW. [MHz]	0.050000
Video BW. [MHz]	0.200000
Detector	POS
Sweep Time [ms]	1000
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

Plot 6: highest channel, 2 Msps



Spectrum analyzer settings read out	
Ref. Level [dBm]	11.50
Ref. Lev. offs [dB]	9.54
Input Attenuation [dB]	20
Freq. Start [MHz]	2477.700
Freq. Stop [MHz]	2482.300
Resolution BW. [MHz]	0.050000
Video BW. [MHz]	0.200000
Detector	POS
Sweep Time [ms]	1000
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

11.5 Maximum output power

Description:

Measurement of the maximum output power conducted and radiated. EUT in single channel mode.

Measurement parameters	
Test setup	See sub clause 6.4 A
Measurement uncertainty	See sub clause 8

Limits:

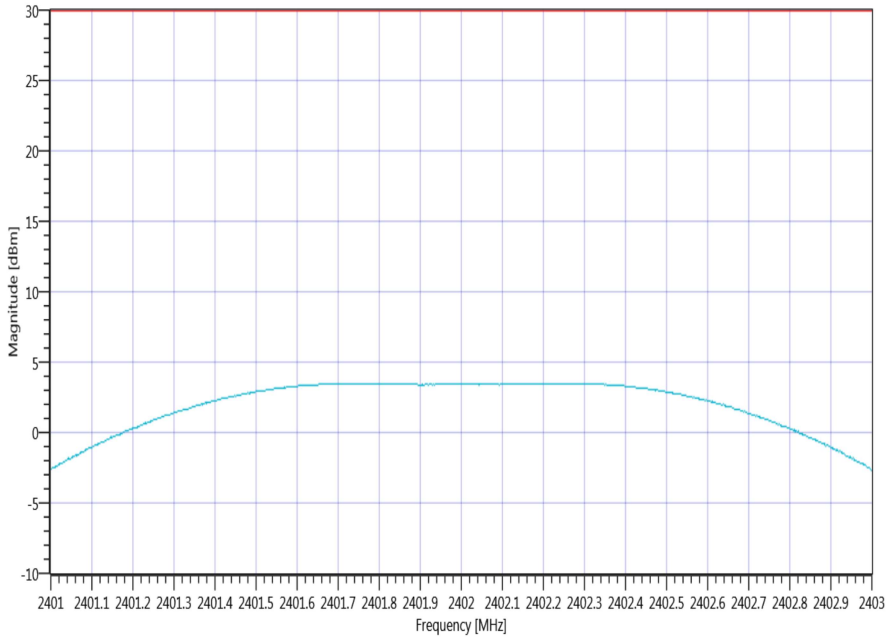
FCC	IC
Maximum output power	
Conducted: 1.0 W – antenna gain max. 6 dBi	

Results:

	Frequency		
	2402 MHz	2440 MHz	2480 MHz
Maximum output power conducted 1 Msps [dBm]	3.5	3.4	3.4
Maximum output power conducted 2 Msps [dBm]	3.5	3.4	3.5

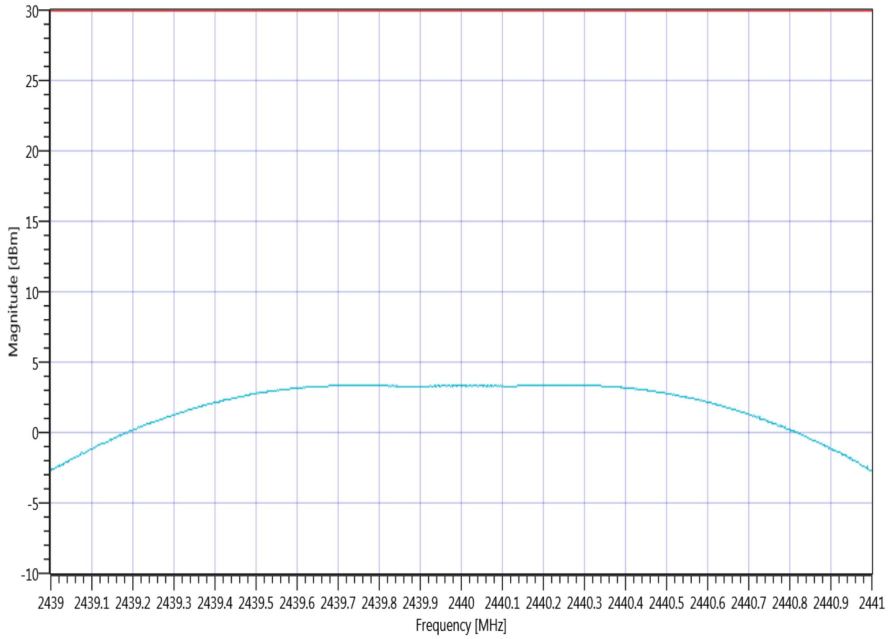
Plots:

Plot 1: lowest channel, 1 Msps



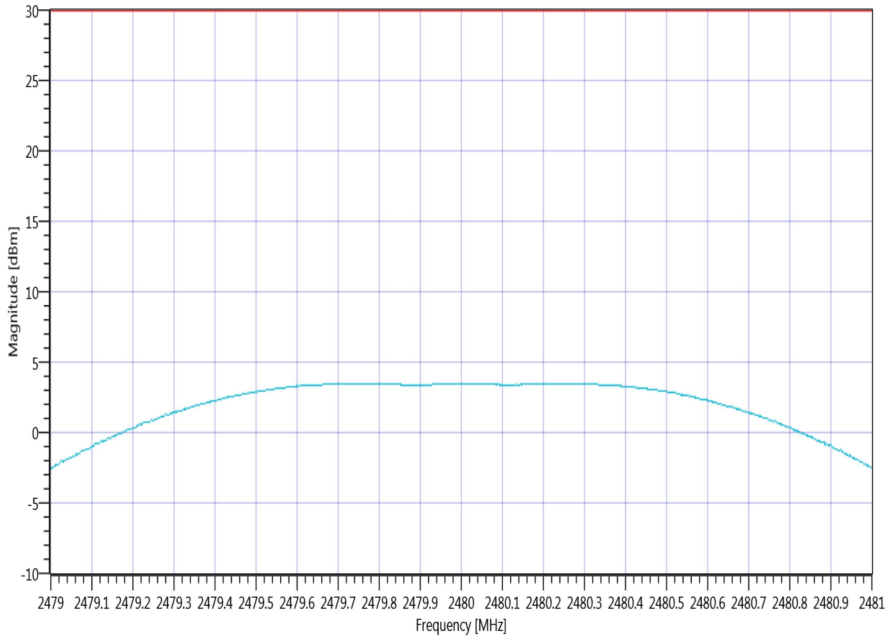
Spectrum analyzer settings read out	
Ref. Level [dBm]	13.63
Ref. Lev. offs [dB]	9.54
Input Attenuation [dB]	20
Freq. Start [MHz]	2401.000
Freq. Stop [MHz]	2403.000
Resolution BW. [MHz]	1.000000
Video BW. [MHz]	5.000000
Detector	POS
Sweep Time [ms]	1000
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

Plot 2: mid channel, 1 Msps



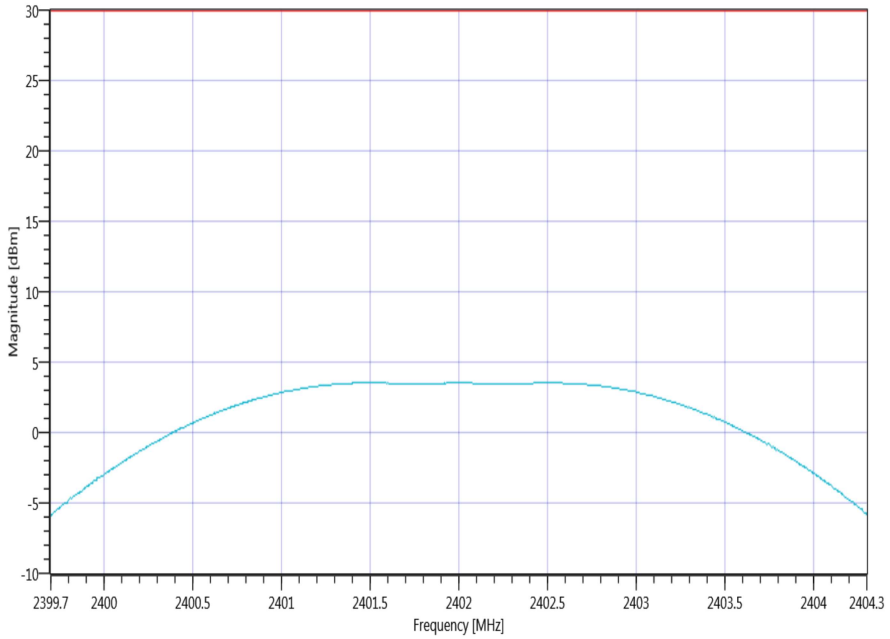
Spectrum analyzer settings read out	
Ref. Level [dBm]	13.47
Ref. Lev. offs [dB]	9.53
Input Attenuation [dB]	20
Freq. Start [MHz]	2439.000
Freq. Stop [MHz]	2441.000
Resolution BW. [MHz]	1.000000
Video BW. [MHz]	5.000000
Detector	POS
Sweep Time [ms]	1000
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

Plot 3: highest channel, 1 Msps



Spectrum analyzer settings read out	
Ref. Level [dBm]	8.52
Ref. Lev. offs [dB]	9.54
Input Attenuation [dB]	15
Freq. Start [MHz]	2479.000
Freq. Stop [MHz]	2481.000
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	1000
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

Plot 4: lowest channel, 2 Msps



Spectrum analyzer settings read out	
Ref. Level [dBm]	13.58
Ref. Lev. offs [dB]	9.54
Input Attenuation [dB]	20
Freq. Start [MHz]	2399.700
Freq. Stop [MHz]	2404.300
Resolution BW. [MHz]	2.000000
Video BW. [MHz]	5.000000
Detector	POS
Sweep Time [ms]	1000
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE