

FCC Part 47 §15.247 2400-2483.5 MHz

Hardware Setup: WMS Measurements\TS8997

Spectrum Analyzer:	SA FSV3044 (SA FSV3044) @ VISA (ADR TCPIP::192.168.48.148::inst0::instr), SN 1330.5000K43/101255, FW 1.60SP1
OSP:	OSP-B157W8PLUS (OSP-B157W8PLUS) @ VISA (ADR TCPIP::192.168.48.157::inst0::instr), SN 1527.1144.05 / 100850, FW 2.10.0.23

Minimum Emission Bandwidth 6 dB (2402 MHz)

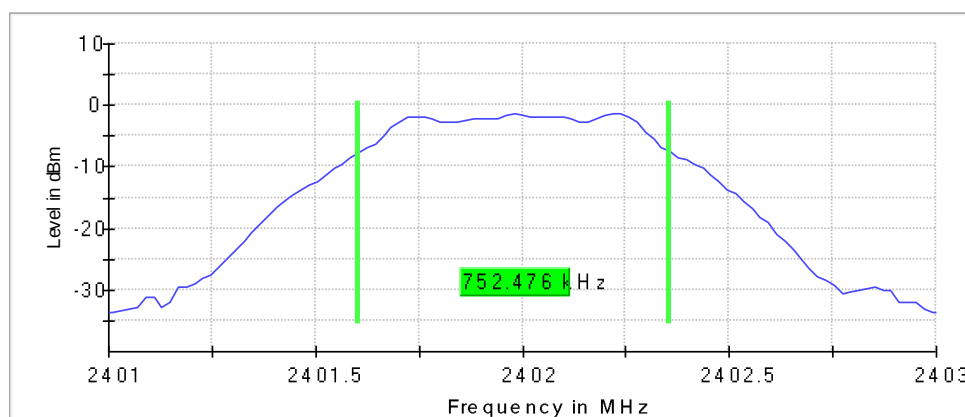
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	0.752476	0.500000	---	2401.603960	2402.356436

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	-1.3	PASS

6 dB Bandwidth



Minimum Emission Bandwidth 6 dB (2440 MHz)

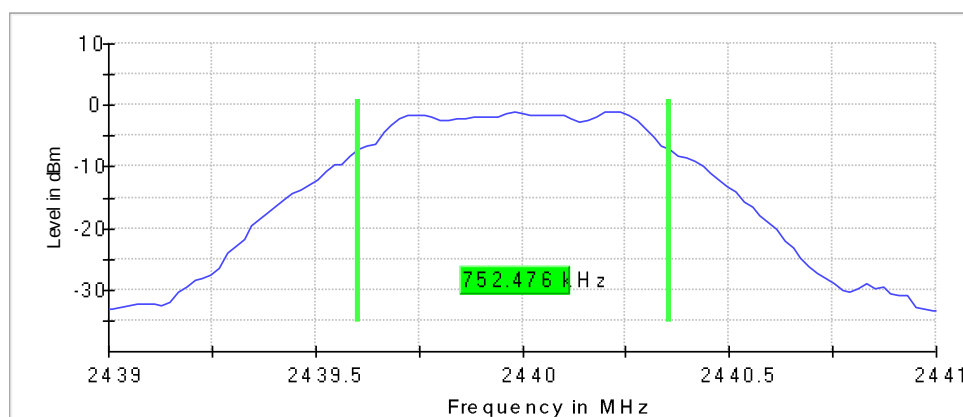
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	0.752476	0.500000	---	2439.603960	2440.356436

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2440.000000	-1.0	PASS

6 dB Bandwidth



Minimum Emission Bandwidth 6 dB (2480 MHz)

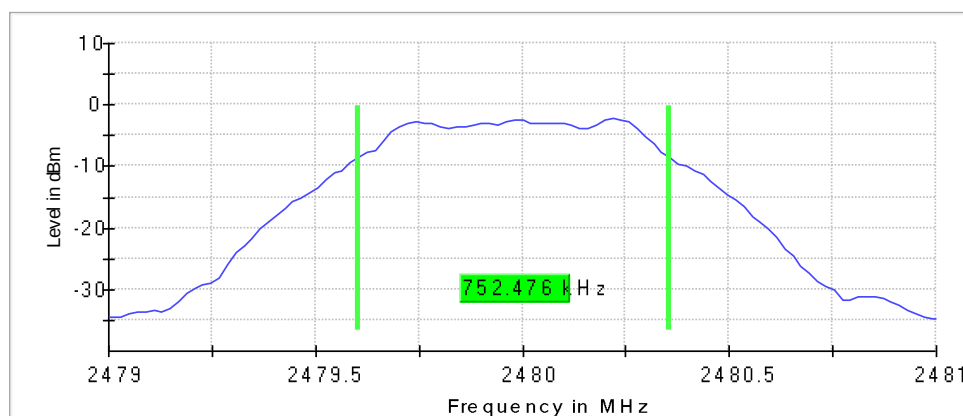
6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	0.752476	0.500000	---	2479.603960	2480.356436

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	-2.3	PASS

6 dB Bandwidth



Peak Power Spectral Density (2402 MHz)

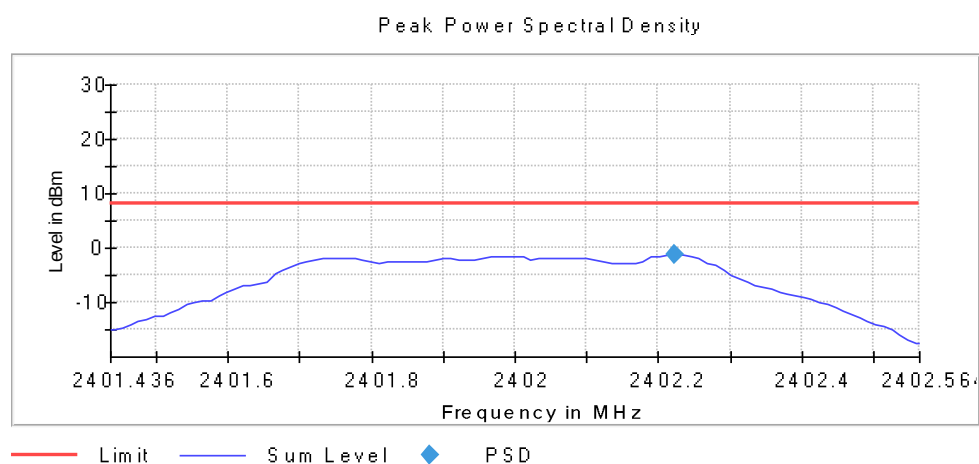
RBW : 100 kHz ;VBW : 300 kHz

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2402.000000	2402.223508	-1.165	8.0	PASS

Ports

Port	State
1	used



Peak Power Spectral Density (2440 MHz)

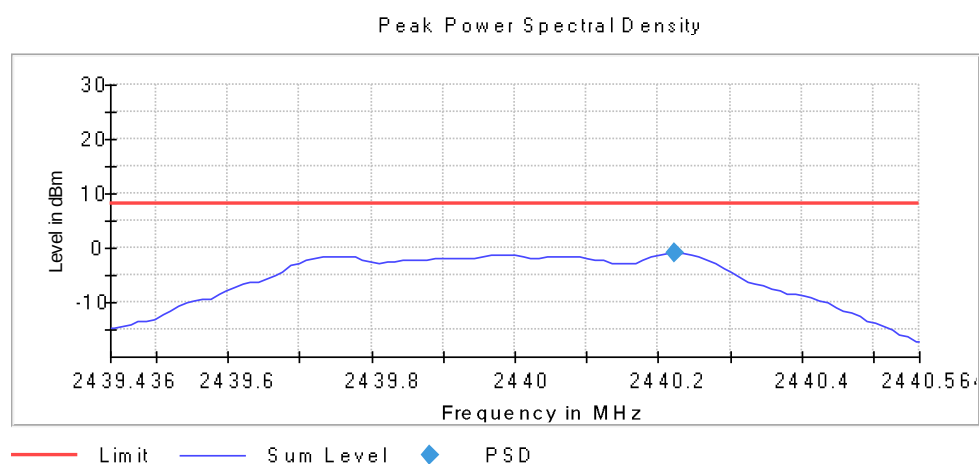
RBW : 100 kHz ;VBW : 300 kHz

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2440.000000	2440.223508	-0.965	8.0	PASS

Ports

Port	State
1	used



Peak Power Spectral Density (2480 MHz)

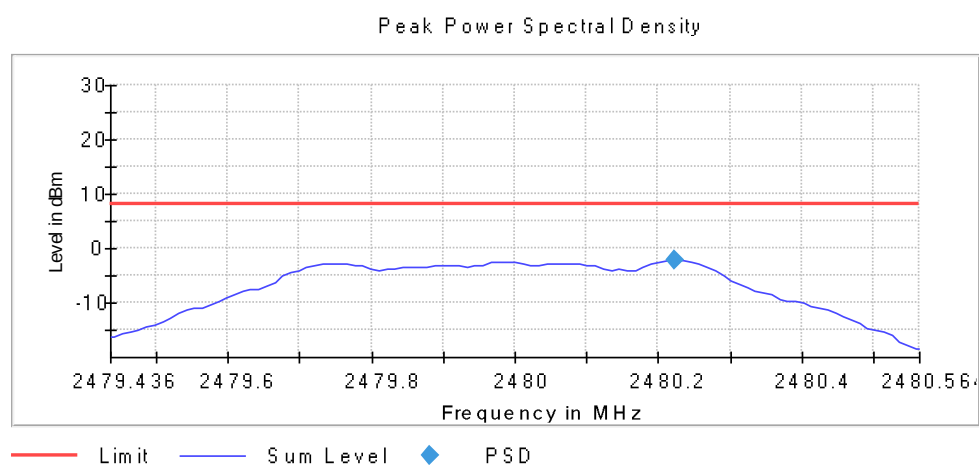
RBW : 100 kHz ;VBW : 300 kHz

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2480.000000	2480.223508	-2.252	8.0	PASS

Ports

Port	State
1	used



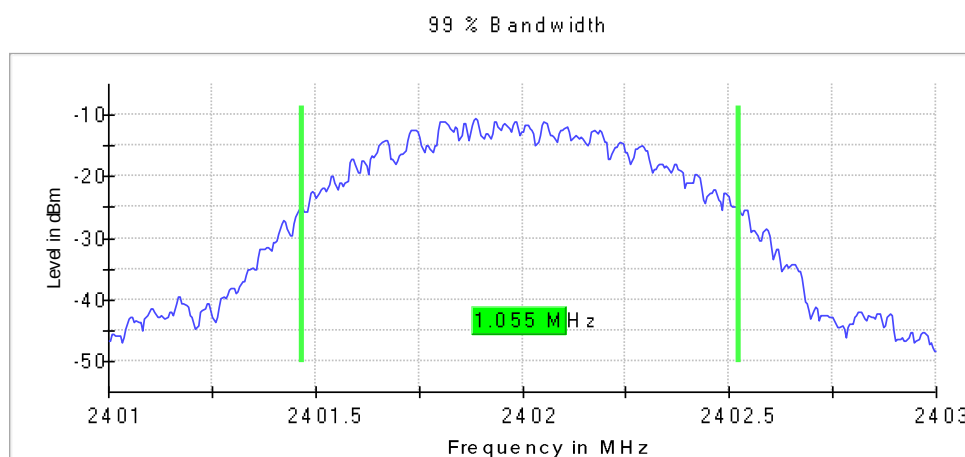
Occupied Channel Bandwidth 99% (2402 MHz)

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.055000	---	---	2401.467500	2402.522500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2402.000000	PASS



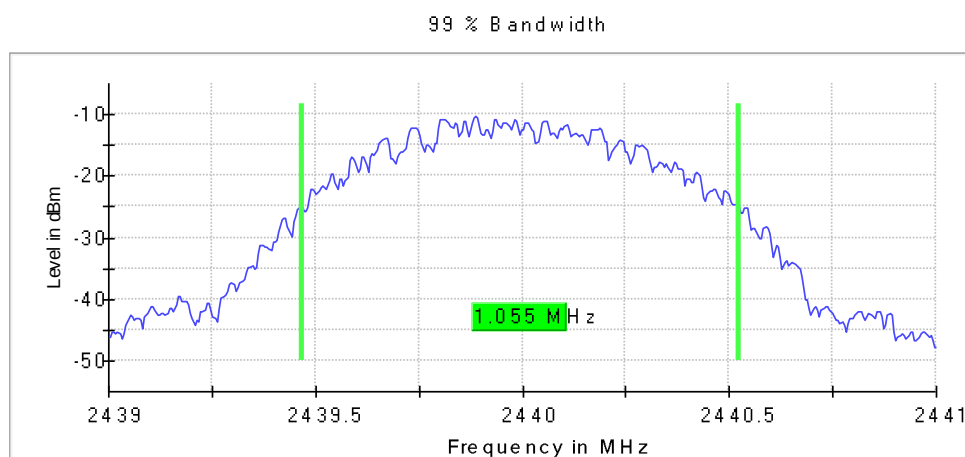
Occupied Channel Bandwidth 99% (2440 MHz)

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	1.055000	---	---	2439.467500	2440.522500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2440.000000	PASS



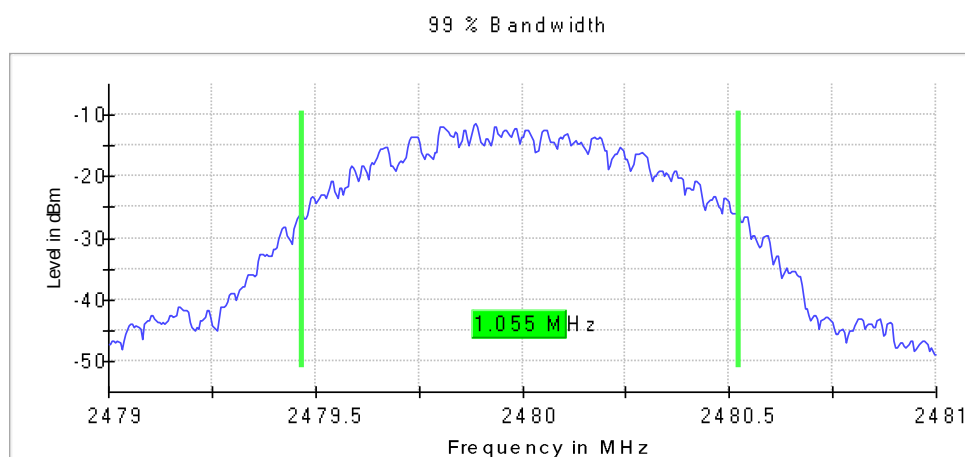
Occupied Channel Bandwidth 99% (2480 MHz)

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.055000	---	---	2479.467500	2480.522500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2480.000000	PASS



Band Edge low (2402 MHz)

Customized settings.

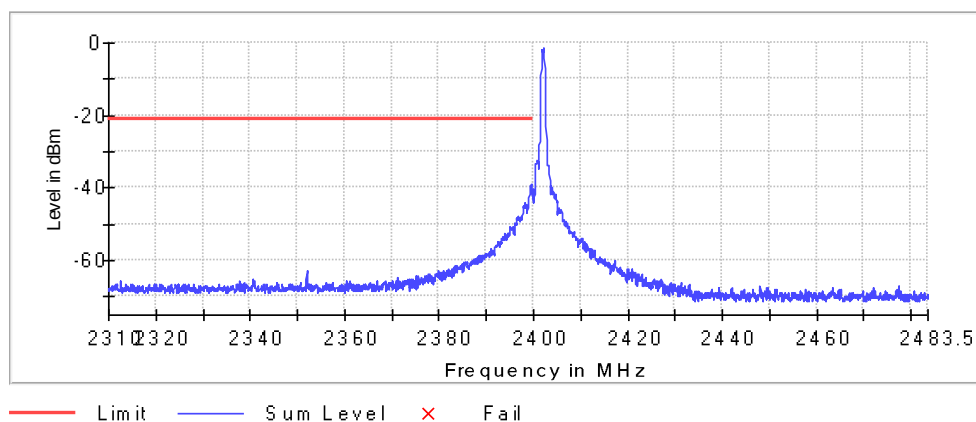
Result

DUT Frequency (MHz)	Result
2402.000000	PASS

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2399.475000	-38.7	17.6	-21.2	PASS
2399.525000	-38.8	17.6	-21.2	PASS
2399.575000	-39.2	18.1	-21.2	PASS
2399.425000	-39.3	18.2	-21.2	PASS
2399.625000	-39.8	18.6	-21.2	PASS
2399.375000	-40.0	18.8	-21.2	PASS
2399.975000	-40.1	19.0	-21.2	PASS
2399.675000	-40.5	19.3	-21.2	PASS
2399.325000	-40.7	19.5	-21.2	PASS
2399.275000	-40.7	19.6	-21.2	PASS
2399.725000	-40.9	19.7	-21.2	PASS
2399.225000	-41.5	20.4	-21.2	PASS
2399.175000	-41.6	20.4	-21.2	PASS
2399.775000	-41.9	20.7	-21.2	PASS
2399.125000	-41.9	20.7	-21.2	PASS

Band Edge



Band Edge high (2480 MHz)

Customized settings.

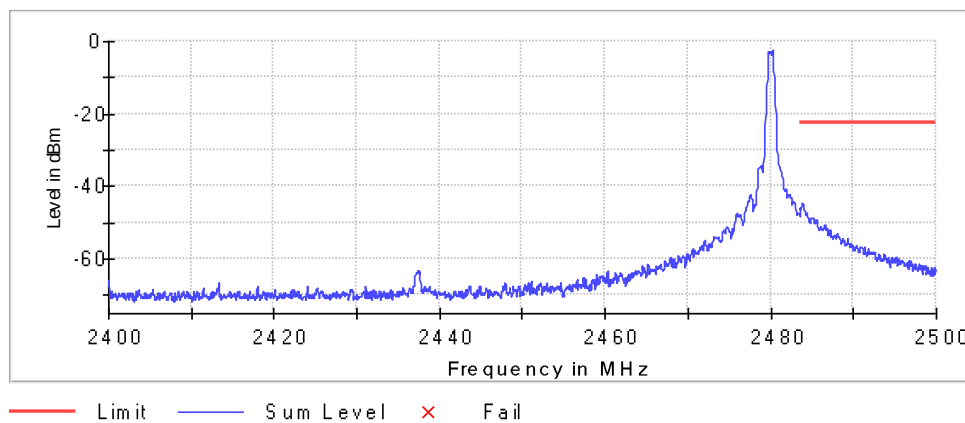
Result

DUT Frequency (MHz)	Result
2480.000000	PASS

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
2483.825000	-44.5	22.1	-22.4	PASS
2483.875000	-44.6	22.3	-22.4	PASS
2483.775000	-44.9	22.5	-22.4	PASS
2483.925000	-45.0	22.6	-22.4	PASS
2483.725000	-45.5	23.1	-22.4	PASS
2483.525000	-45.9	23.6	-22.4	PASS
2483.975000	-46.0	23.7	-22.4	PASS
2483.675000	-46.1	23.7	-22.4	PASS
2483.575000	-46.2	23.8	-22.4	PASS
2484.075000	-46.3	23.9	-22.4	PASS
2484.025000	-46.3	24.0	-22.4	PASS
2483.625000	-46.4	24.1	-22.4	PASS
2484.125000	-46.8	24.5	-22.4	PASS
2484.175000	-47.2	24.8	-22.4	PASS
2484.375000	-47.4	25.1	-22.4	PASS

Band Edge



Tx Spurious Emission (2402 MHz)

Customized settings.

Result

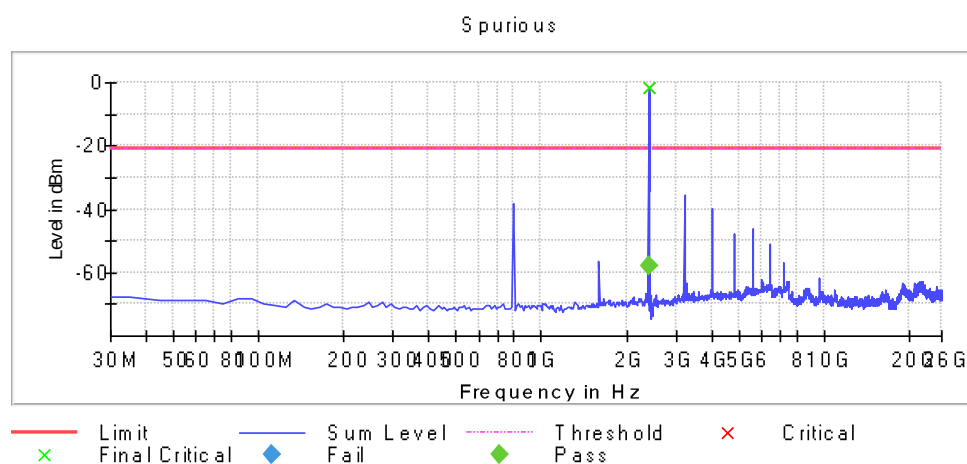
DUT Frequency (MHz)	Result
2402.000000	PASS

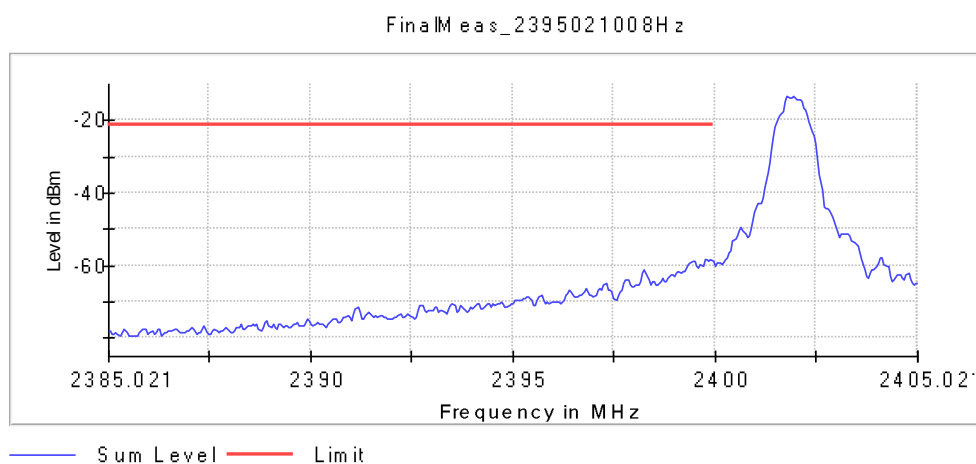
Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
2399.759163	-3.7	-58.1	-21.2	36.9	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2395.021008	-1.8	-19.4	-21.2
3198.089779	-35.6	14.5	-21.2
791.785714	-38.4	17.2	-21.2
4007.625053	-39.6	18.5	-21.2
5606.707076	-46.2	25.1	-21.2
4807.166065	-47.9	26.7	-21.2
6406.248088	-50.8	29.7	-21.2
1598.382353	-56.4	35.3	-21.2
7205.789099	-57.1	35.9	-21.2
2385.063025	-58.8	37.7	-21.2
9604.412133	-61.8	40.7	-21.2
3208.084042	-62.1	41.0	-21.2
6006.477582	-62.3	41.1	-21.2
3228.072567	-62.3	41.2	-21.2
6036.460370	-62.5	41.3	-21.2





Tx Spurious Emission (2440 MHz)

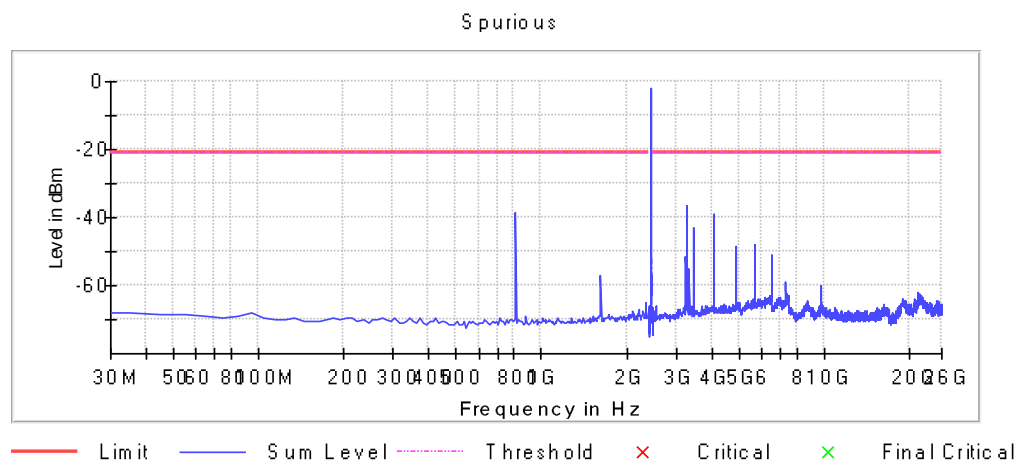
Customized settings.

Result

DUT Frequency (MHz)	Result
2440.000000	PASS

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
3258.055355	-36.4	15.4	-21.0
811.701681	-38.7	17.8	-21.0
4067.590629	-38.8	17.9	-21.0
3447.946345	-42.8	21.8	-21.0
5696.655440	-47.9	26.9	-21.0
4877.125903	-48.7	27.7	-21.0
6506.190714	-51.1	30.2	-21.0
3238.066830	-51.4	30.5	-21.0
3328.015193	-55.2	34.2	-21.0
1618.298319	-56.8	35.8	-21.0
3248.061092	-58.2	37.3	-21.0
7315.725988	-59.0	38.0	-21.0
9764.320336	-59.8	38.9	-21.0
7325.720251	-61.5	40.5	-21.0
21537.561730	-62.1	41.2	-21.0



Tx Spurious Emission (2480 MHz)

Customized settings.

Result

DUT Frequency (MHz)	Result
2480.000000	PASS

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
3308.026668	-37.4	15.1	-22.3
821.659664	-40.0	17.7	-22.3
4137.550467	-40.5	18.3	-22.3
2488.497131	-47.5	25.3	-22.3
5786.603804	-49.1	26.9	-22.3
4957.080004	-49.4	27.1	-22.3
3258.055355	-52.6	30.4	-22.3
6616.127603	-53.1	30.8	-22.3
1648.172269	-56.4	34.2	-22.3
7435.657140	-60.6	38.4	-22.3
3328.015193	-61.6	39.4	-22.3
21617.515831	-62.5	40.2	-22.3
7445.651402	-62.7	40.5	-22.3
9924.228538	-62.8	40.5	-22.3
7465.639928	-63.0	40.7	-22.3

