

Conducted test results

No.1-6634/23-01-15_Annex_MR

August 24, 2023

Test Standard(s) FCC 15.247, ISED RSS247 - NI

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FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ Generic 2G4

References

TC start	22.08.2023 15:26:40
Ambit temp [°C] humidity [rel%]	28.3 40
System version	4.6.1.0
Standard Version	FCC 15.247, ISED RSS247 NI
Method	
Description	FCC 15.247 Bandwidth 99PCT-20DB DTS - Generic 2G4
Information	

EUT Common settings 2G4

Hopping supported	No
Burst length [ms]	1
Nominal Bandwidth [MHz]	1.7568
User Interaction	Yes

Test Parameter

Technology to test	Generic 2G4
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 2404
Frequency mid to test	True Freq [MHz] 2442
Frequency high to test	True Freq [MHz] 2478
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70
Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.62
Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI

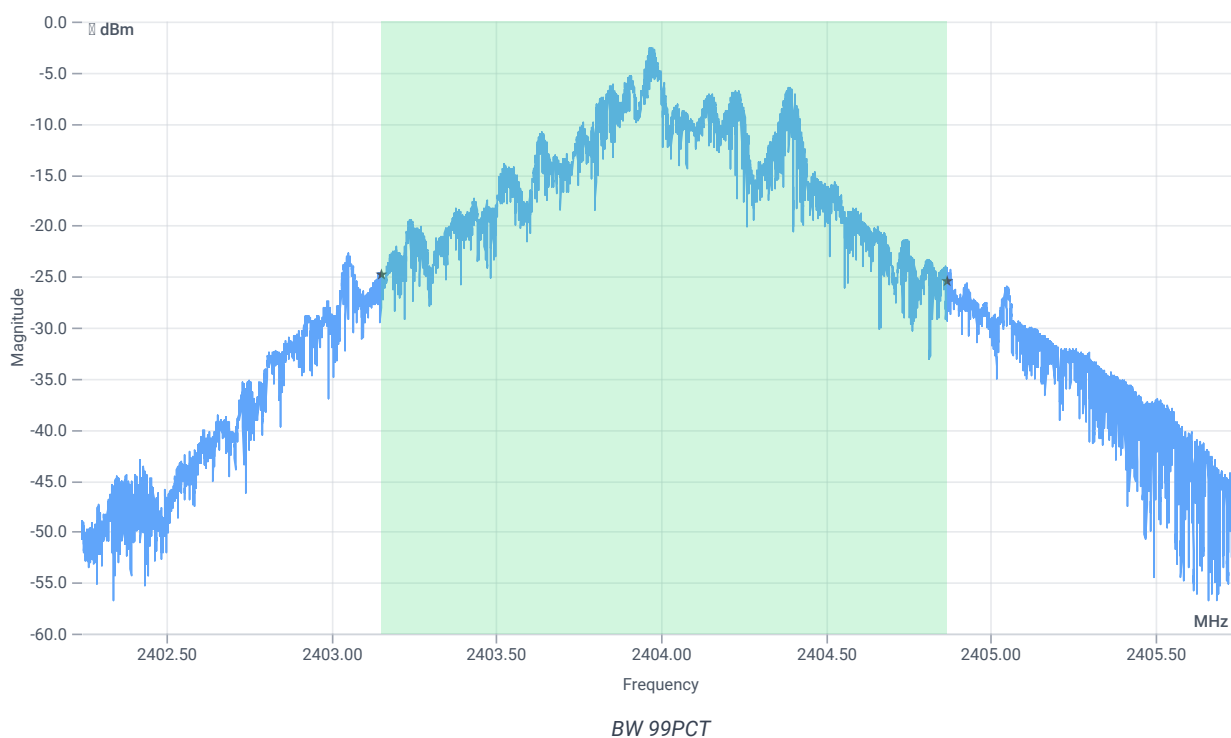
Test at TX 2404 MHz

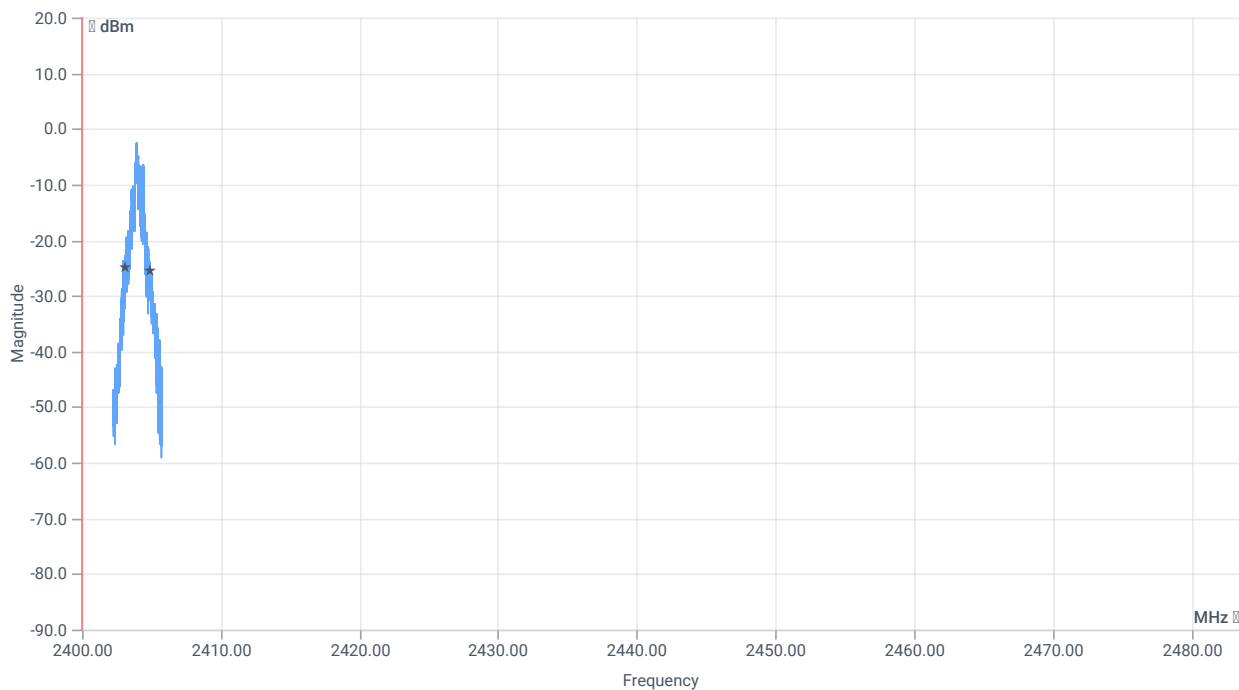
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	---	---	-0.23	dBm	INFO
Ref. Frequency	---	---	2403.500	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	4.77 10.8 10
Start [MHz] Stop [MHz]	2402.243 2405.757
RBW [MHz] VBW [MHz]	0.030000 0.100000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	50 200 10001 SWE

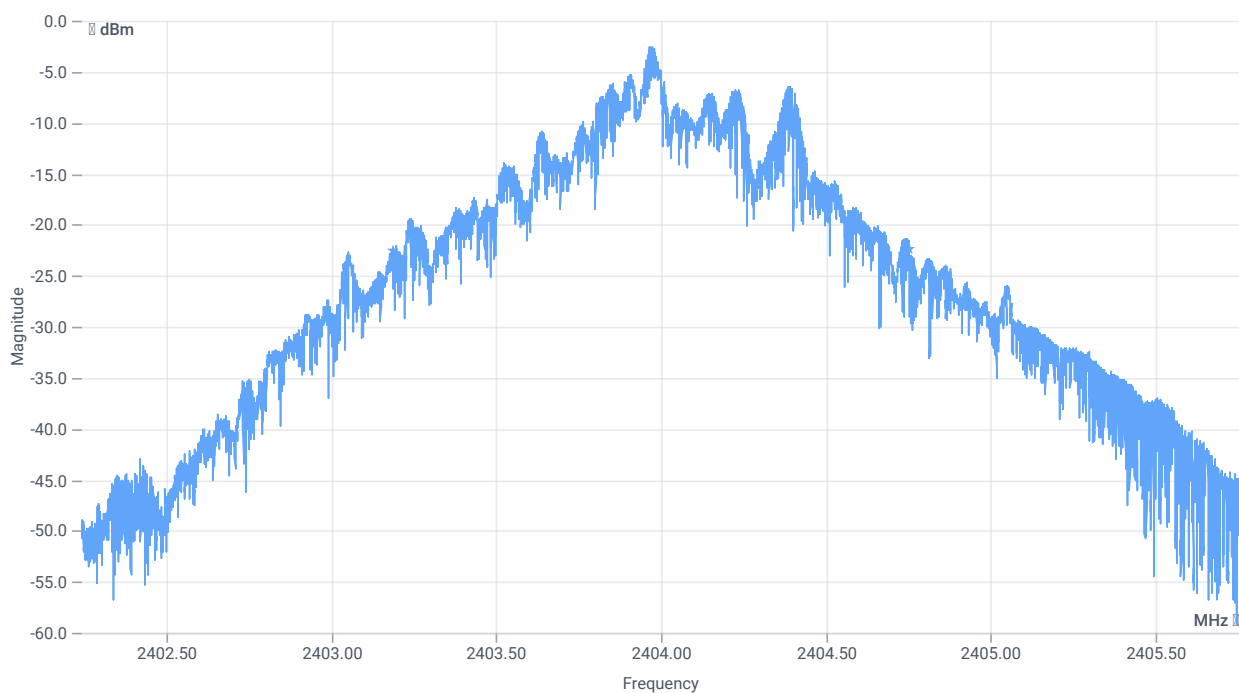




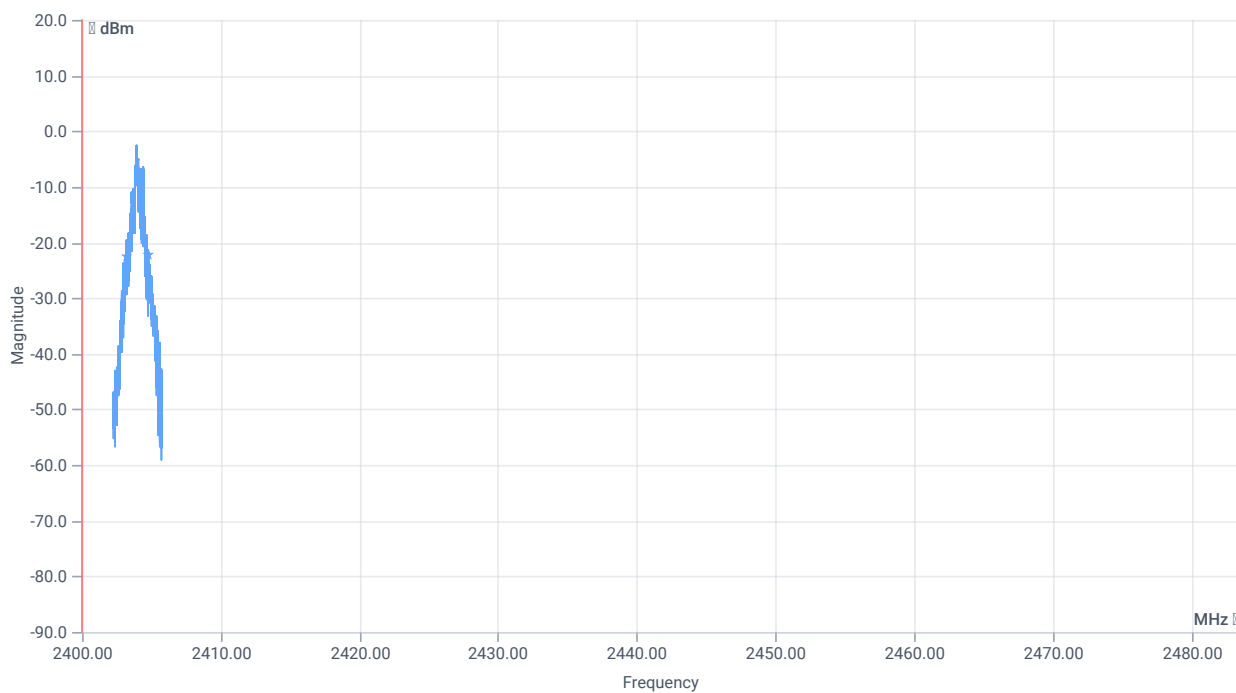
BW within Band 99PCT

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	1715.000	kHz	INFO
T1 99%	2400.000000	---	2403.1519	MHz	PASS
T2 99%	---	2483.500000	2404.8667	MHz	PASS



BW 20dB



BW within Band 20dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	1568	kHz	INFO
T1 20dB	2400.000000	---	2403.1863	MHz	PASS
T2 20dB	---	2483.500000	2404.7544	MHz	PASS

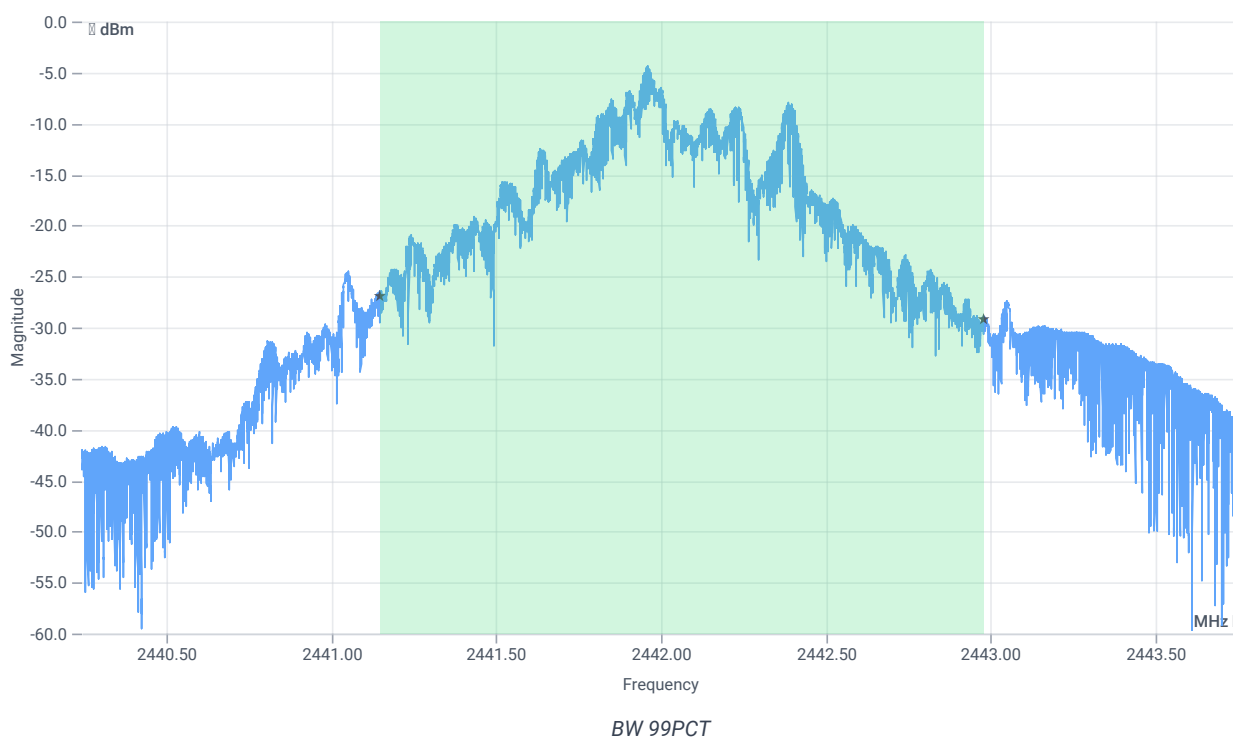
Test at TX 2442 MHz

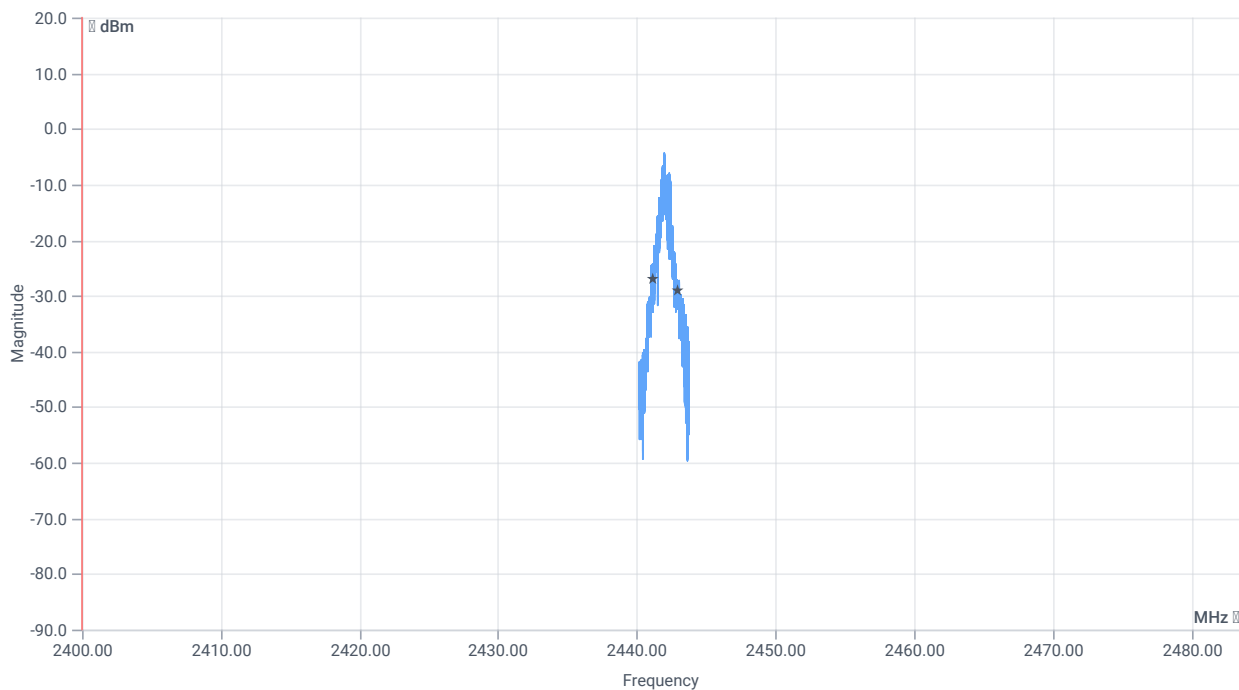
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	---	---	-1.72	dBm	INFO
Ref. Frequency	---	---	2442.500	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	3.28 10.8 10
Start [MHz] Stop [MHz]	2440.243 2443.757
RBW [MHz] VBW [MHz]	0.030000 0.100000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	50 200 10001 SWE

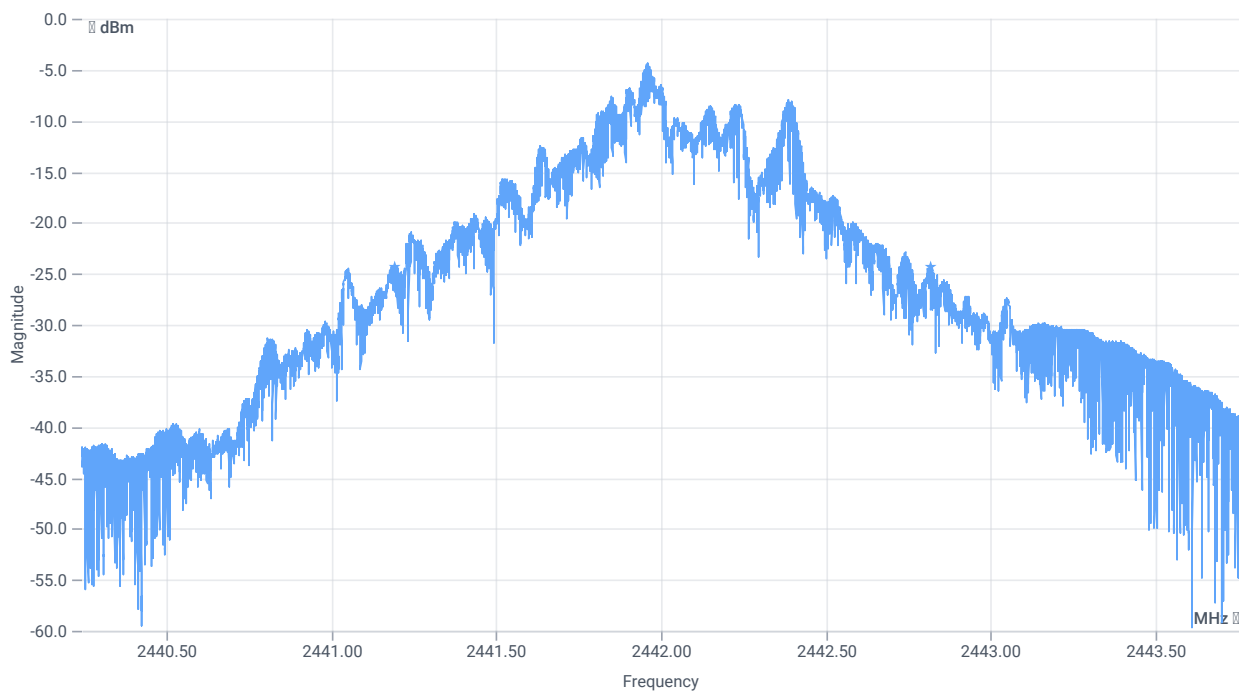




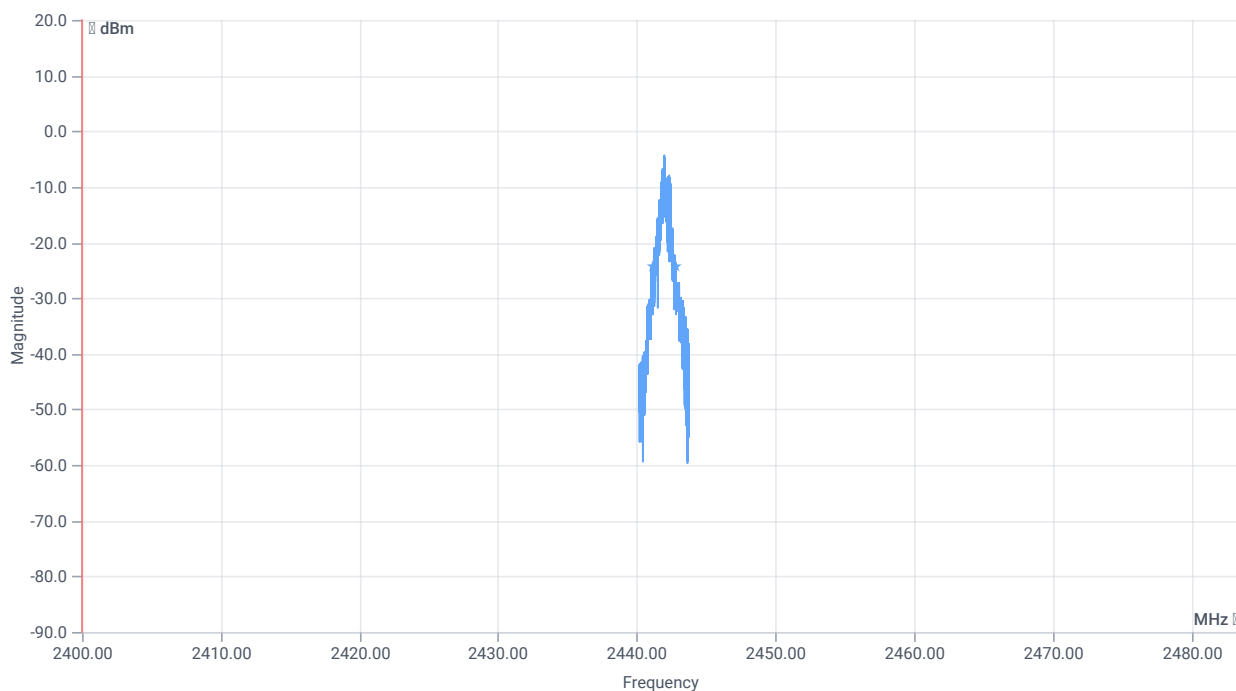
BW within Band 99PCT

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	1831.000	kHz	INFO
T1 99%	2400.000000	---	2441.1473	MHz	PASS
T2 99%	---	2483.500000	2442.9784	MHz	PASS



BW 20dB



BW within Band 20dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	1630	kHz	INFO
T1 20dB	2400.000000	---	2441.1901	MHz	PASS
T2 20dB	---	2483.500000	2442.8197	MHz	PASS

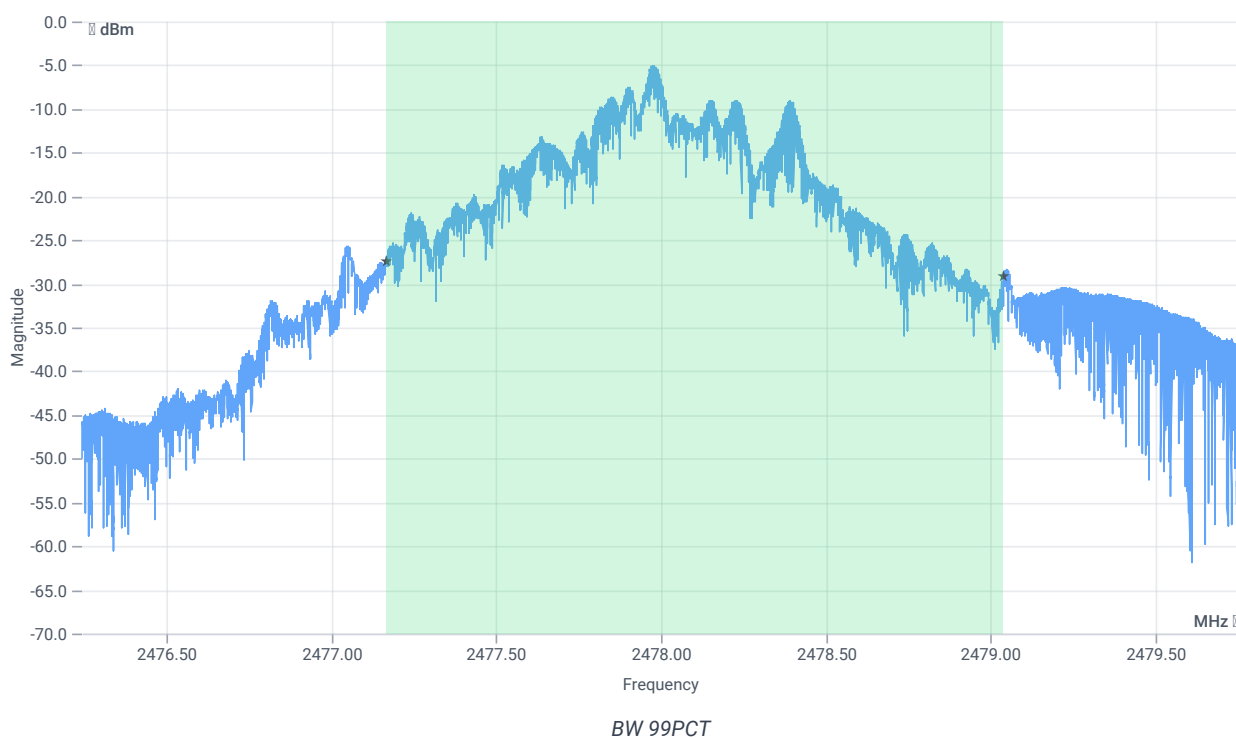
Test at TX 2478 MHz

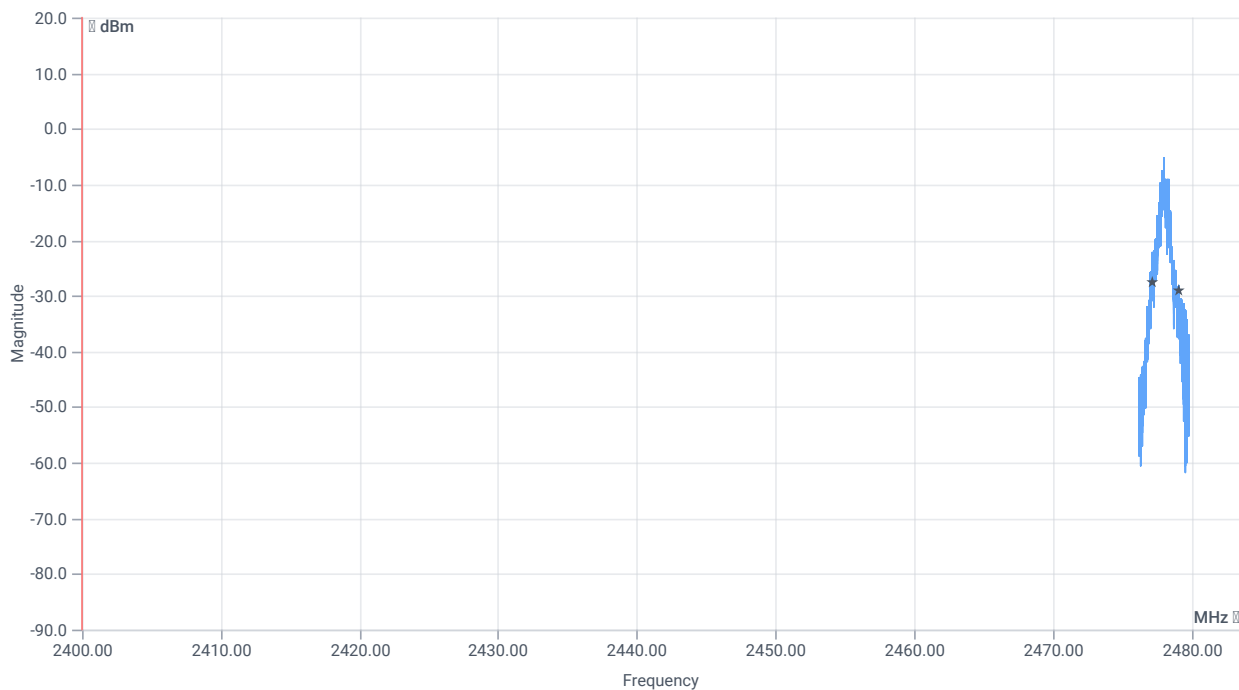
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	---	---	-2.54	dBm	INFO
Ref. Frequency	---	---	2478.500	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	2.46 10.85 10
Start [MHz] Stop [MHz]	2476.243 2479.757
RBW [MHz] VBW [MHz]	0.030000 0.100000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	50 200 10001 SWE

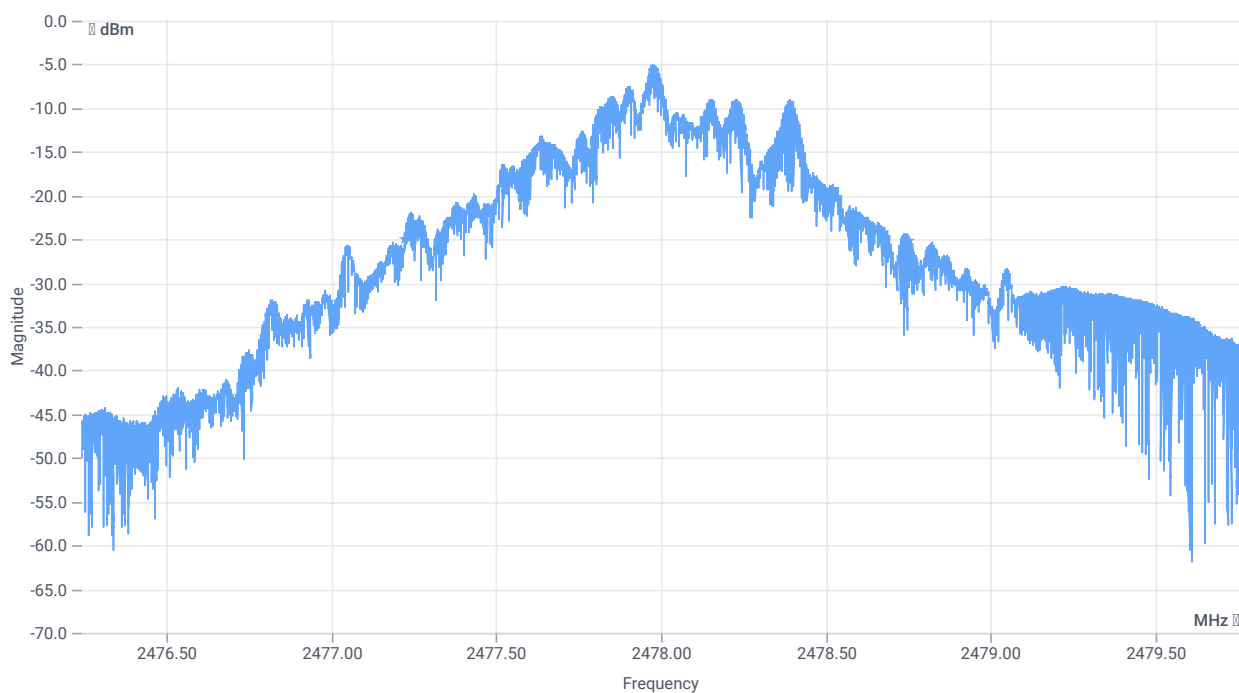




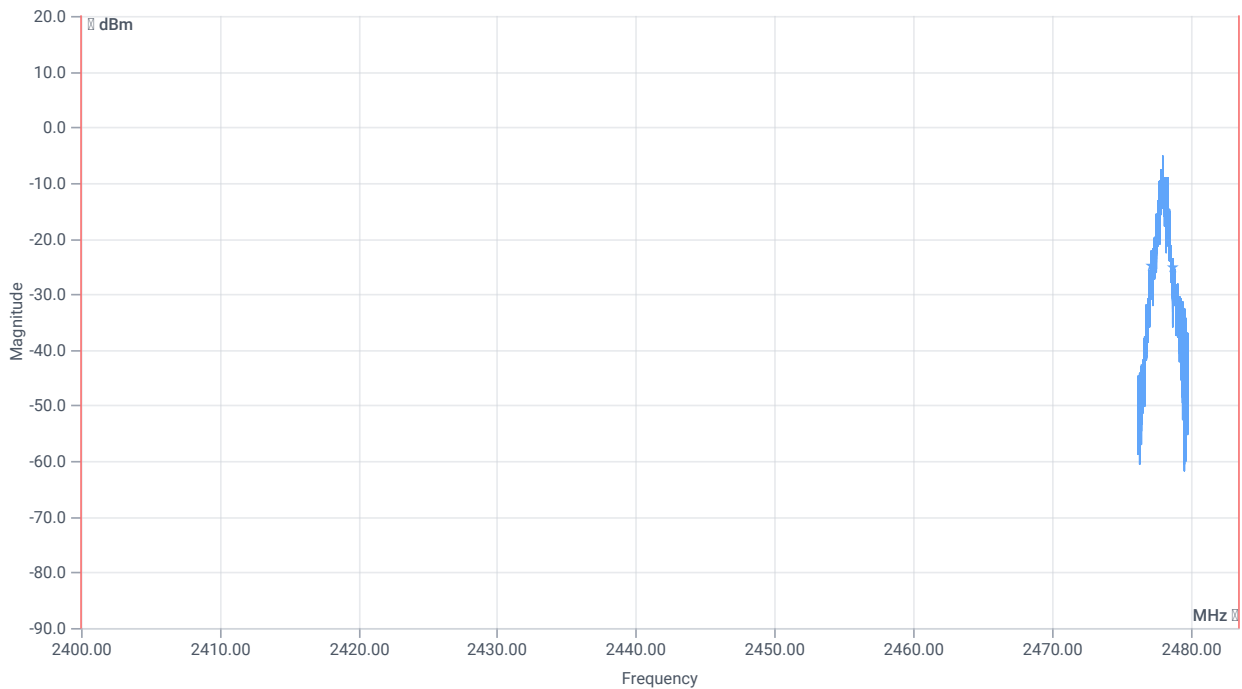
BW within Band 99PCT

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	1873.000	kHz	INFO
T1 99%	2400.000000	---	2477.1681	MHz	PASS
T2 99%	---	2483.500000	2479.0410	MHz	PASS



BW 20dB



BW within Band 20dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	1532	kHz	INFO
T1 20DB	2400.000000	---	2477.2224	MHz	PASS
T2 20dB	---	2483.500000	2478.7547	MHz	PASS

Verdict

PASS

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