

Radiated test results

No.23-1-0144001T007_TR1-A201-R1

September 11, 2024

Test Standard(s)

Systems FCC.ISED - NI

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Authorized

Al-Amin Hossain

Testing Manager
Radio Labs

Systems FCC.ISED # Frequency stability over temperature & voltage ~ RADAR 77G - 79GHz 76000-81000 MHz

References

TC start	11.09.2024 17:50:34
Ambit temp [°C] humidity [rel%]	not enabled not enabled
System version	5.0.7.6
Standard Version	Systems FCC.ISED NI
Method	
Description	Systems FCC ISED Freq stability over temp/volt
Information	

Equipment

Signal analyzer,Rohde&Schwarz,FSW-67,1312.8000K67/104023,6.00
Power supply,HEWLETT-PACKARD,E3632A,0,1.2-5.0-1.0
Climatic box,Voetsch,VT4002,56604682,LAN

Test Parameter

EUT port	
Temperature	var
Voltage	var
Auto control enabled power supply Climatic Box	Yes Yes
Full path type	
Full path name	
Switch bits	

Test for temperature[°C]: 20 | voltage [V]: 12

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	-4.00 0 6
Start [MHz] Stop [MHz]	75500.000 81500.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	150000 1 6001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	1960.890	MHz	INFO
T1 99%	76000	---	77005.9333	MHz	PASS
T2 99%	---	81000	78966.8230	MHz	PASS

Test for temperature[°C]: 20 | voltage [V]: 10.2

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	-4.00 0 6
Start [MHz] Stop [MHz]	75500.000 81500.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	150000 1 6001 SWE



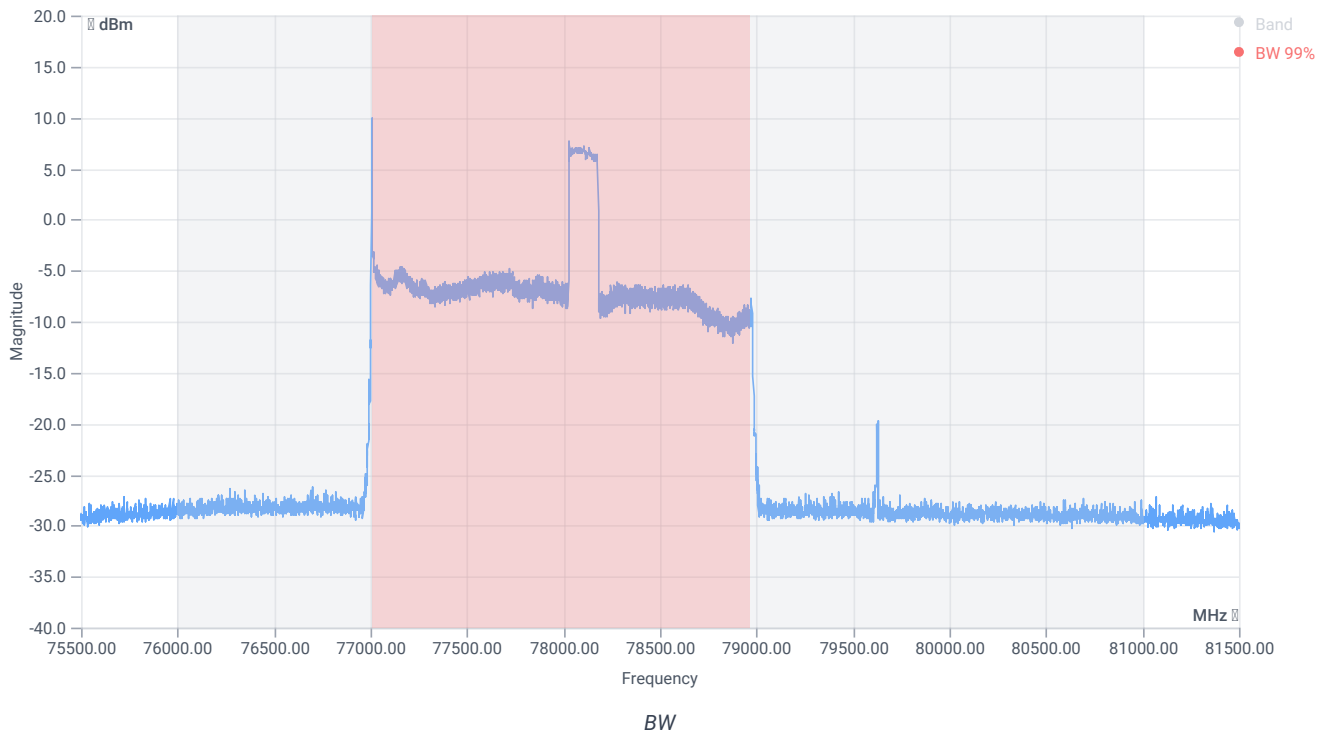
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	1960.051	MHz	INFO
T1 99%	76000	---	77005.8370	MHz	PASS
T2 99%	---	81000	78965.8884	MHz	PASS

Test for temperature[°C]: 20 | voltage [V]: 13.8

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	-4.00 0 6
Start [MHz] Stop [MHz]	75500.000 81500.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	150000 1 6001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	1959.934	MHz	INFO
T1 99%	76000	---	77005.8017	MHz	PASS
T2 99%	---	81000	78965.7361	MHz	PASS

Test for temperature[°C]: -20 | voltage [V]: 12

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	-4.00 0 6
Start [MHz] Stop [MHz]	75500.000 81500.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	150000 1 6001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	1934.077	MHz	INFO
T1 99%	76000	---	77008.0532	MHz	PASS
T2 99%	---	81000	78942.1303	MHz	PASS

Test for temperature[°C]: -10 | voltage [V]: 12

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	-4.00 0 6
Start [MHz] Stop [MHz]	75500.000 81500.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	150000 1 6001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	1938.378	MHz	INFO
T1 99%	76000	---	77007.4064	MHz	PASS
T2 99%	---	81000	78945.7849	MHz	PASS

Test for temperature[°C]: 0 | voltage [V]: 12

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	-4.00 0 6
Start [MHz] Stop [MHz]	75500.000 81500.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	150000 1 6001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	1949.228	MHz	INFO
T1 99%	76000	---	77006.9512	MHz	PASS
T2 99%	---	81000	78956.1790	MHz	PASS

Test for temperature[°C]: 10 | voltage [V]: 12

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	-4.00 0 6
Start [MHz] Stop [MHz]	75500.000 81500.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	150000 1 6001 SWE



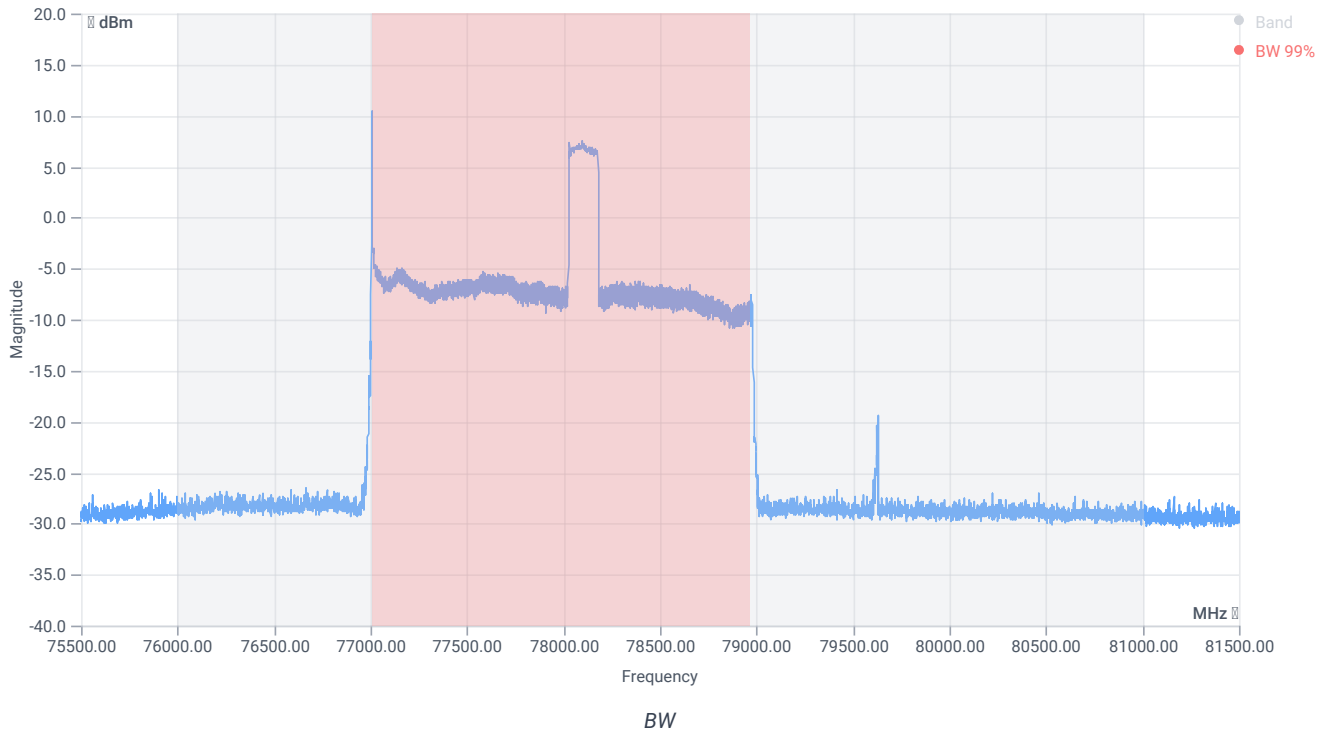
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	1956.547	MHz	INFO
T1 99%	76000	---	77006.3369	MHz	PASS
T2 99%	---	81000	78962.8838	MHz	PASS

Test for temperature[°C]: 20 | voltage [V]: 12

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	-4.00 0 6
Start [MHz] Stop [MHz]	75500.000 81500.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	150000 1 6001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	1960.279	MHz	INFO
T1 99%	76000	---	77006.0986	MHz	PASS
T2 99%	---	81000	78966.3778	MHz	PASS

Test for temperature[°C]: 30 | voltage [V]: 12

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	-4.00 0 6
Start [MHz] Stop [MHz]	75500.000 81500.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	150000 1 6001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	1962.904	MHz	INFO
T1 99%	76000	---	77005.3283	MHz	PASS
T2 99%	---	81000	78968.2319	MHz	PASS

Test for temperature[°C]: 40 | voltage [V]: 12

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	-4.00 0 6
Start [MHz] Stop [MHz]	75500.000 81500.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	150000 1 6001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	1966.587	MHz	INFO
T1 99%	76000	---	77005.3689	MHz	PASS
T2 99%	---	81000	78971.9559	MHz	PASS

Test for temperature[°C]: 50 | voltage [V]: 12

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	-4.00 0 6
Start [MHz] Stop [MHz]	75500.000 81500.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	150000 1 6001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	1967.495	MHz	INFO
T1 99%	76000	---	77004.8018	MHz	PASS
T2 99%	---	81000	78972.2972	MHz	PASS

Verdict

PASS

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