Annex A201 - Frequency stability

No.1-9898-25-01-02_TR1-A201-R01

May 06, 2025

Test Standard(s)	Systems FCC.ISED - NI

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Systems FCC.ISED # Frequency stability over temperature & voltage ~ TID0057 116000-123000 MHz

References

TC start	06.05.2025 10:58:16
Ambit temp (test rack) [°C] | humidity [rel%]	not enabled | not enabled
System version	5.1.9.0
Standard | Version	Systems FCC.ISED | NI
Method	
Description	Systems FCC ISED Freq stability over temp/volt
Information	

Equipment

Signal analyzer,Rohde&Schwarz,FSW-50,1331.5003K50/101332,6.20
Power supply,Agilent Technologies,N5767A,US14J1569P,B.00.06,REV:F
Climatic box,CTS,T-40/50,064023,LAN

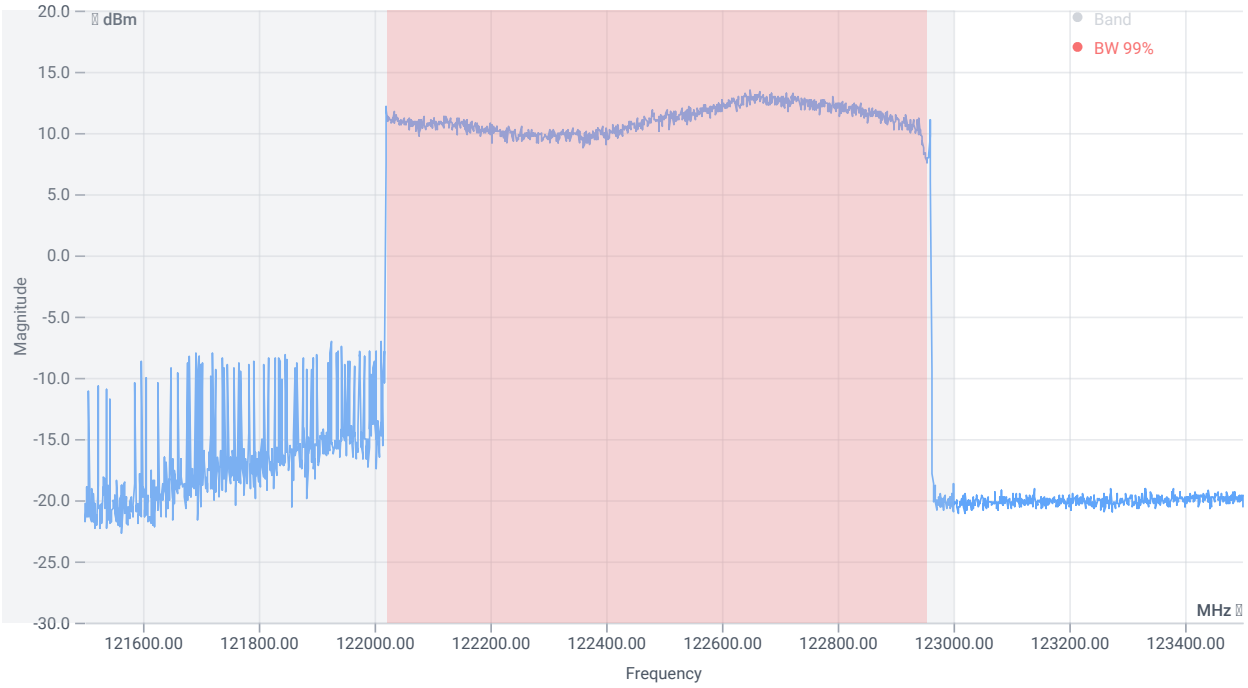
Test Parameter

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]: 24

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	30.00 | 47.6 | 0
Start [MHz] | Stop [MHz]	121500.000 | 123500.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	20000 | 1 | 2001 | SWE



BW

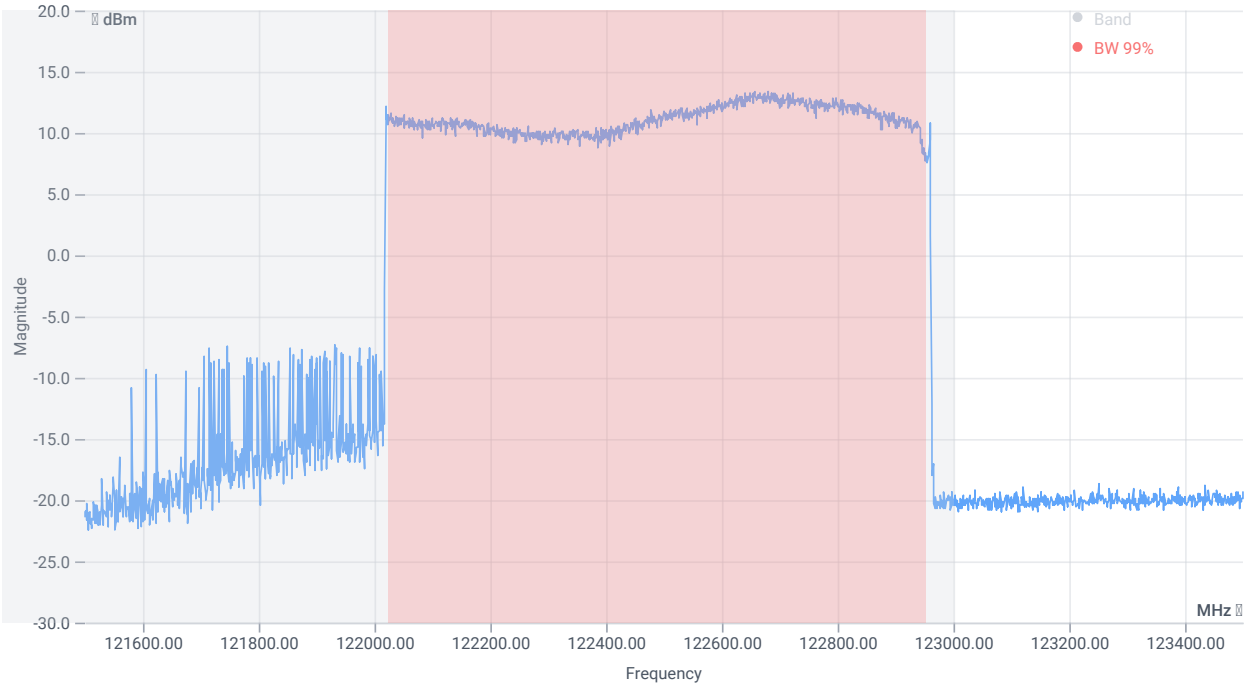
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	931.218	MHz	INFO
T1 99%	116000	---	122022.2705	MHz	PASS
T2 99%	---	123000	122953.4884	MHz	PASS

Test for temperature[°C]: 20 | voltage [V]: 20.4

READ SA SETTINGS:

RefLevel [dBm]	RefLevelOffset [dB]	InpAtt [dB]	30.00	47.6	0
Start [MHz]	Stop [MHz]	121500.000	123500.000
RBW [MHz]	VBW [MHz]	1.000000	3.000000
Detector	TraceMode	POS	MAXH
Sweep: time [ms]	count	points per Section	type	20000	1	2001	SWE



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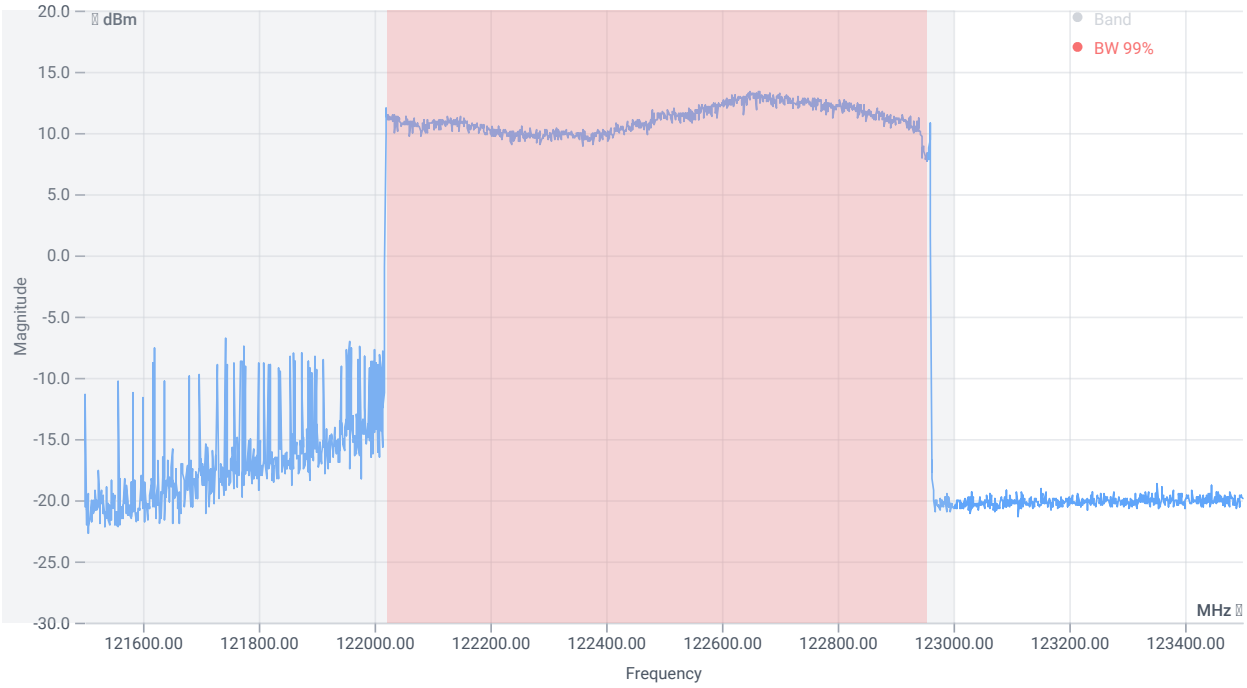
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	930.807	MHz	INFO
T1 99%	116000	---	122021.9291	MHz	PASS
T2 99%	---	123000	122952.7364	MHz	PASS

Test for temperature[°C]: 20 | voltage [V]: 27.6

READ SA SETTINGS:

RefLevel [dBm]	RefLevelOffset [dB]	InpAtt [dB]	30.00	47.6	0
Start [MHz]	Stop [MHz]	121500.000	123500.000
RBW [MHz]	VBW [MHz]	1.000000	3.000000
Detector	TraceMode	POS	MAXH
Sweep: time [ms]	count	points per Section	type	20000	1	2001	SWE



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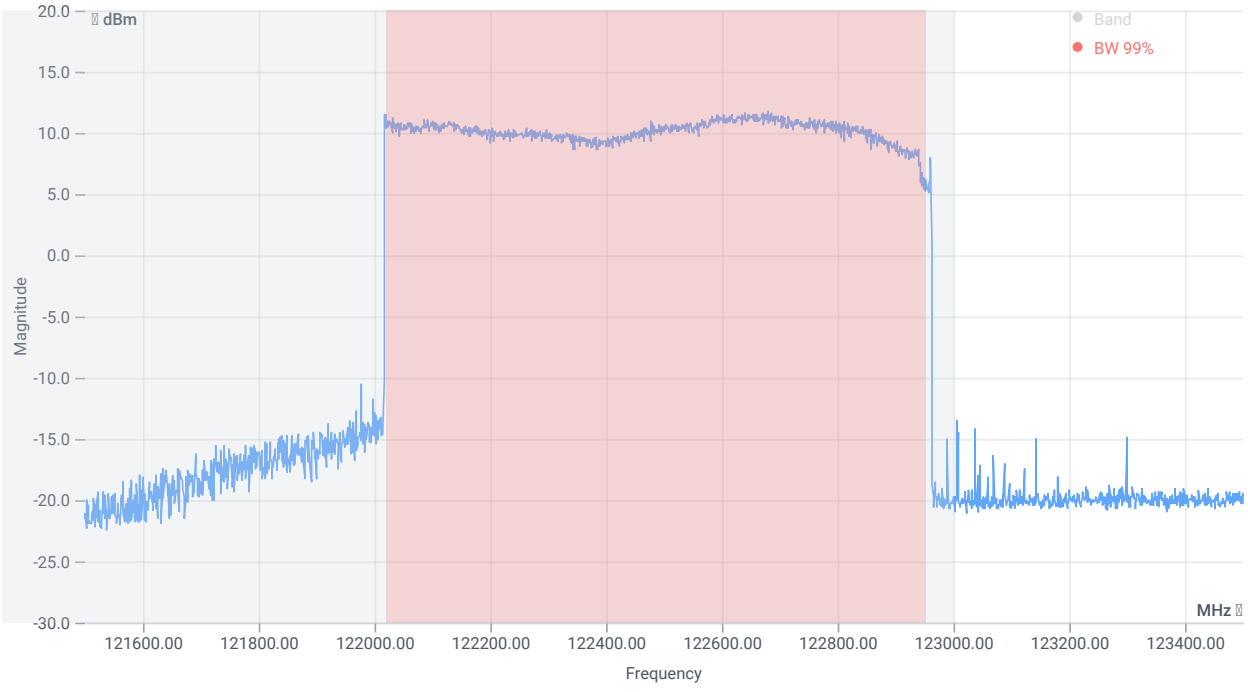
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	930.715	MHz	INFO
T1 99%	116000	---	122022.2248	MHz	PASS
T2 99%	---	123000	122952.9401	MHz	PASS

Test for temperature[°C]: -20 | voltage [V]: 24

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	30.00 | 47.6 | 0
Start [MHz] | Stop [MHz]	121500.000 | 123500.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	20000 | 1 | 2001 | SWE



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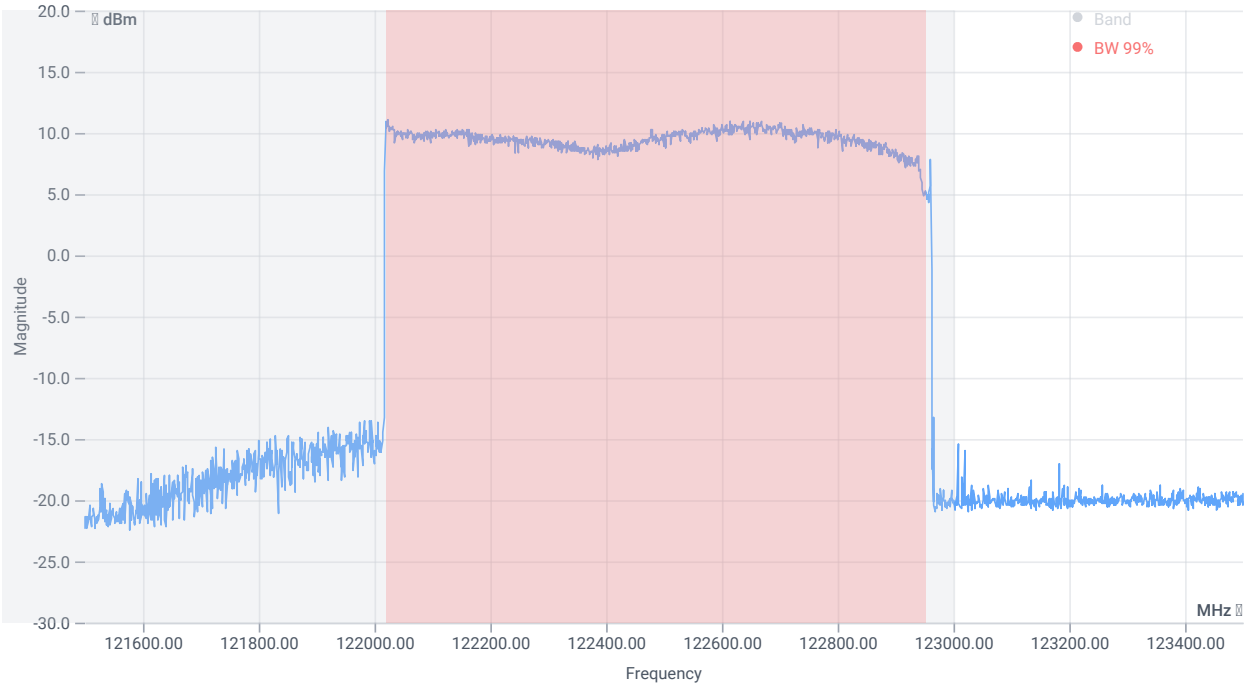
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	930.243	MHz	INFO
T1 99%	116000	---	122020.4945	MHz	PASS
T2 99%	---	123000	122950.7374	MHz	PASS

Test for temperature[°C]: -10 | voltage [V]: 24

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	30.00 | 47.6 | 0
Start [MHz] | Stop [MHz]	121500.000 | 123500.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	20000 | 1 | 2001 | SWE



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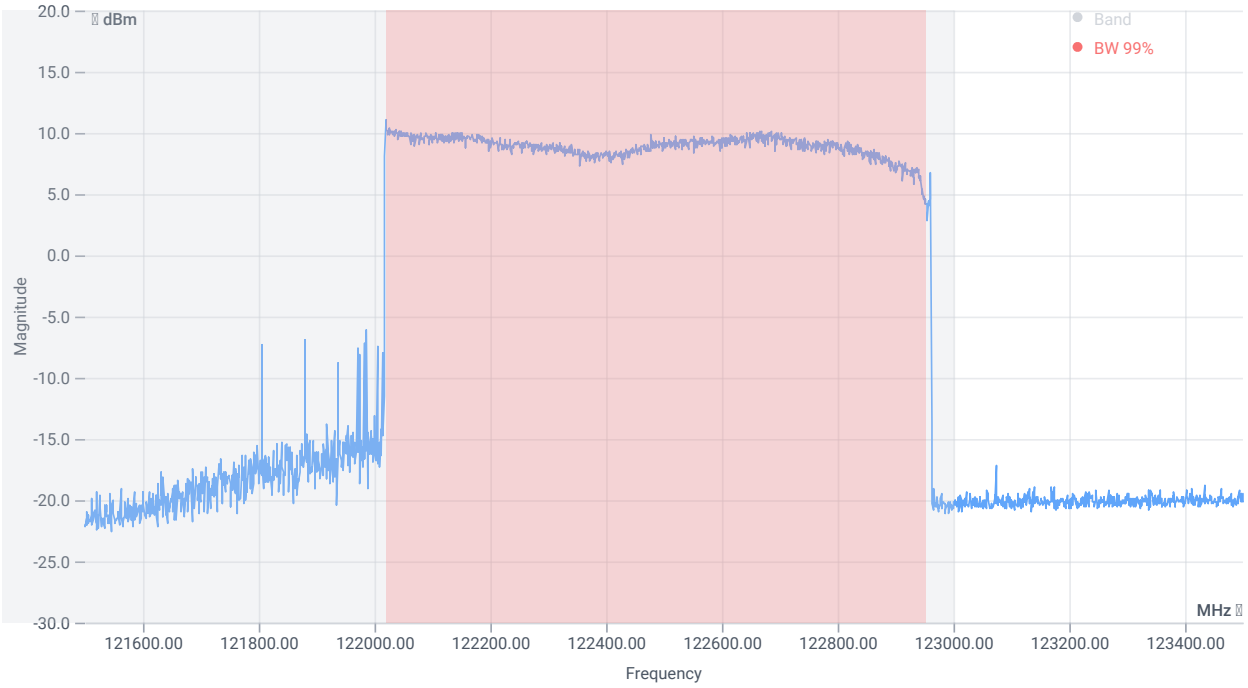
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	930.045	MHz	INFO
T1 99%	116000	---	122021.0691	MHz	PASS
T2 99%	---	123000	122951.1138	MHz	PASS

Test for temperature[°C]: 0 | voltage [V]: 24

READ SA SETTINGS:

RefLevel [dBm]	RefLevelOffset [dB]	InpAtt [dB]	30.00	47.6	0
Start [MHz]	Stop [MHz]	121500.000	123500.000
RBW [MHz]	VBW [MHz]	1.000000	3.000000
Detector	TraceMode	POS	MAXH
Sweep: time [ms]	count	points per Section	type	20000	1	2001	SWE



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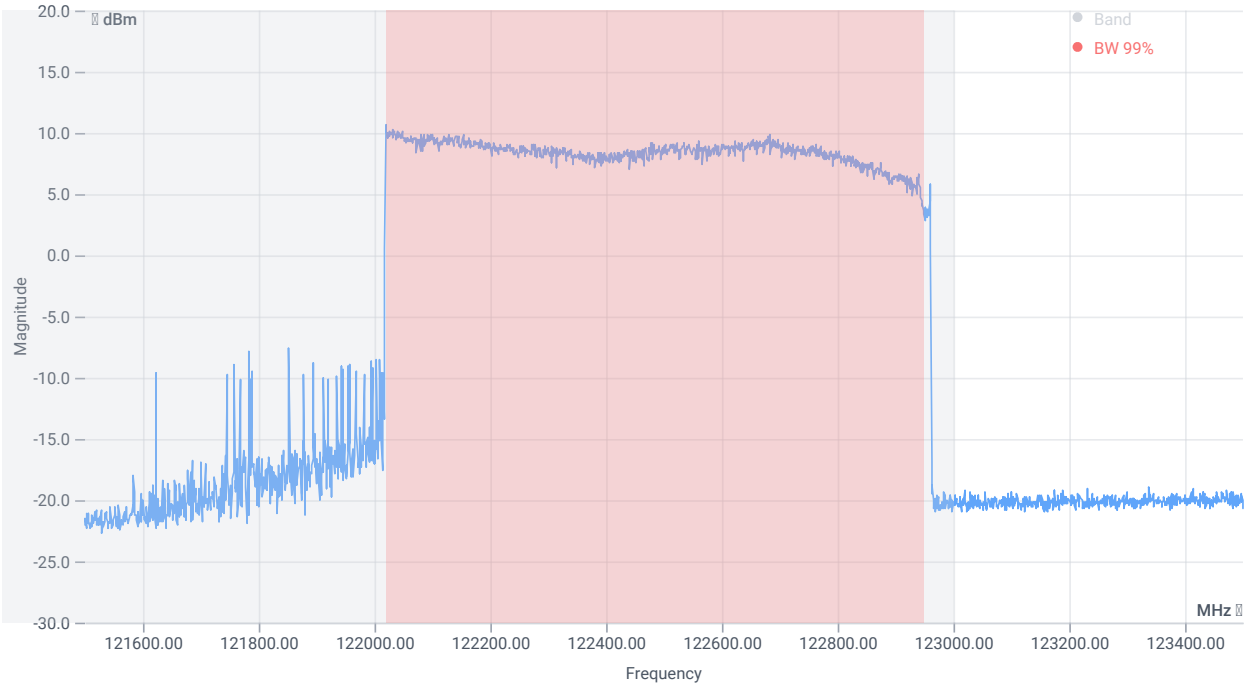
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	929.952	MHz	INFO
T1 99%	116000	---	122020.3328	MHz	PASS
T2 99%	---	123000	122950.2848	MHz	PASS

Test for temperature[°C]: 10 | voltage [V]: 24

READ SA SETTINGS:

RefLevel [dBm]	RefLevelOffset [dB]	InpAtt [dB]	30.00	47.6	0
Start [MHz]	Stop [MHz]	121500.000	123500.000
RBW [MHz]	VBW [MHz]	1.000000	3.000000
Detector	TraceMode	POS	MAXH
Sweep: time [ms]	count	points per Section	type	20000	1	2001	SWE



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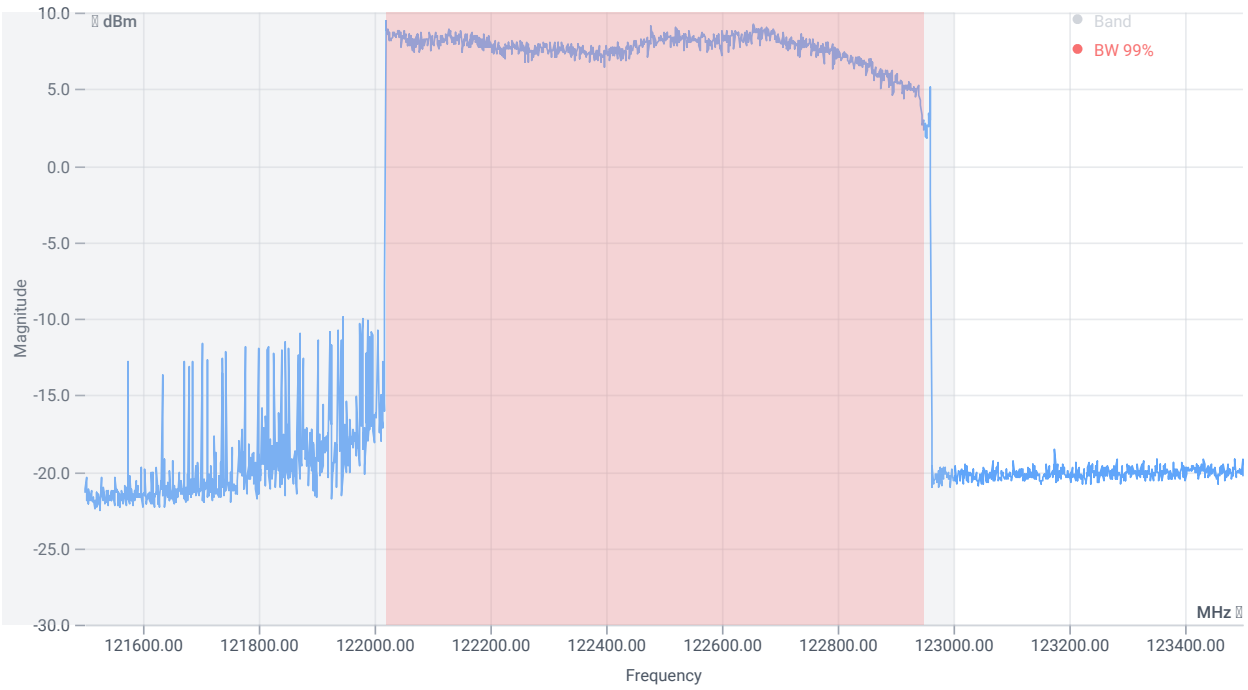
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	928.577	MHz	INFO
T1 99%	116000	---	122020.6245	MHz	PASS
T2 99%	---	123000	122949.2017	MHz	PASS

Test for temperature[°C]: 20 | voltage [V]: 24

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	30.00 | 47.6 | 0
Start [MHz] | Stop [MHz]	121500.000 | 123500.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	20000 | 1 | 2001 | SWE



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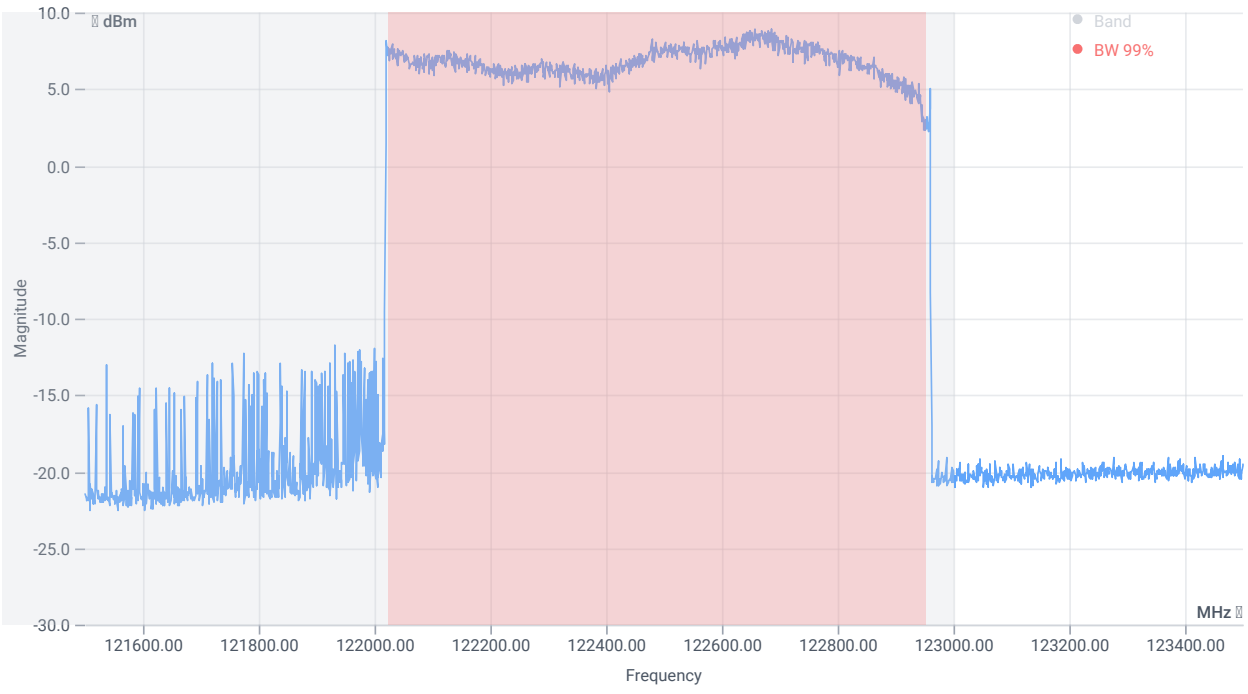
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	927.822	MHz	INFO
T1 99%	116000	---	122021.1661	MHz	PASS
T2 99%	---	123000	122948.9877	MHz	PASS

Test for temperature[°C]: 30 | voltage [V]: 24

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	30.00 | 47.6 | 0
Start [MHz] | Stop [MHz]	121500.000 | 123500.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	20000 | 1 | 2001 | SWE



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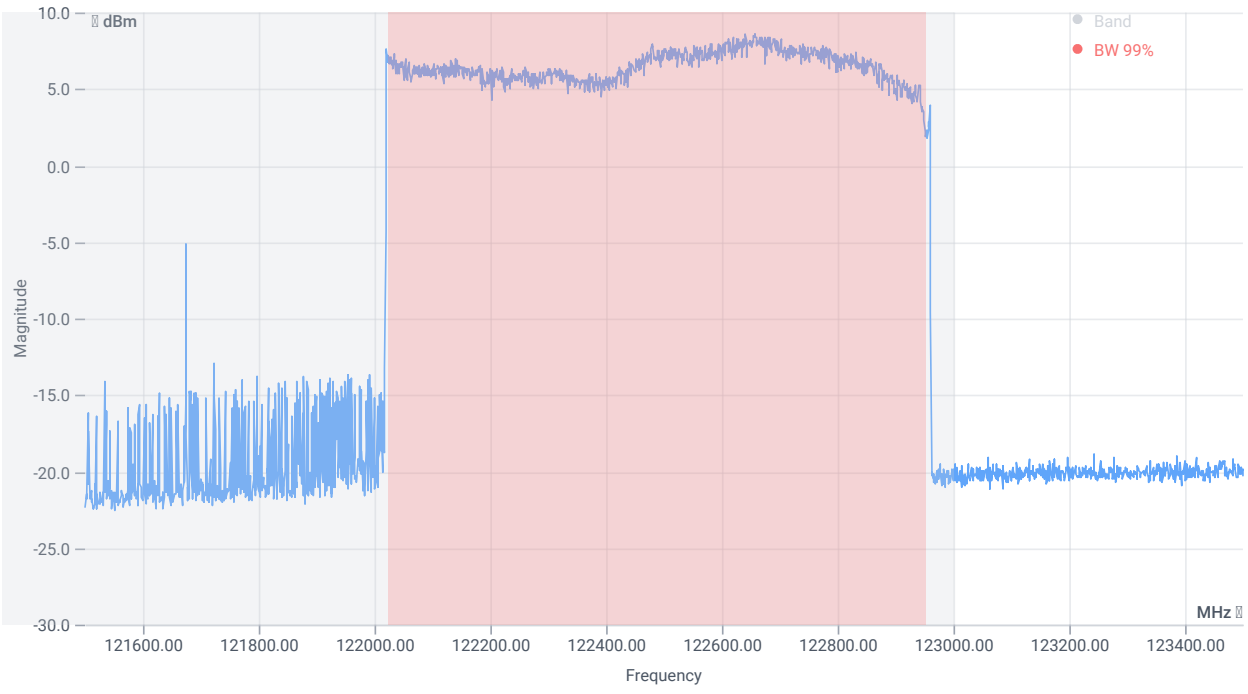
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	929.778	MHz	INFO
T1 99%	116000	---	122021.9941	MHz	PASS
T2 99%	---	123000	122951.7723	MHz	PASS

Test for temperature[°C]: 40 | voltage [V]: 24

READ SA SETTINGS:

RefLevel [dBm]	RefLevelOffset [dB]	InpAtt [dB]	30.00	47.6	0
Start [MHz]	Stop [MHz]	121500.000	123500.000
RBW [MHz]	VBW [MHz]	1.000000	3.000000
Detector	TraceMode	POS	MAXH
Sweep: time [ms]	count	points per Section	type	20000	1	2001	SWE



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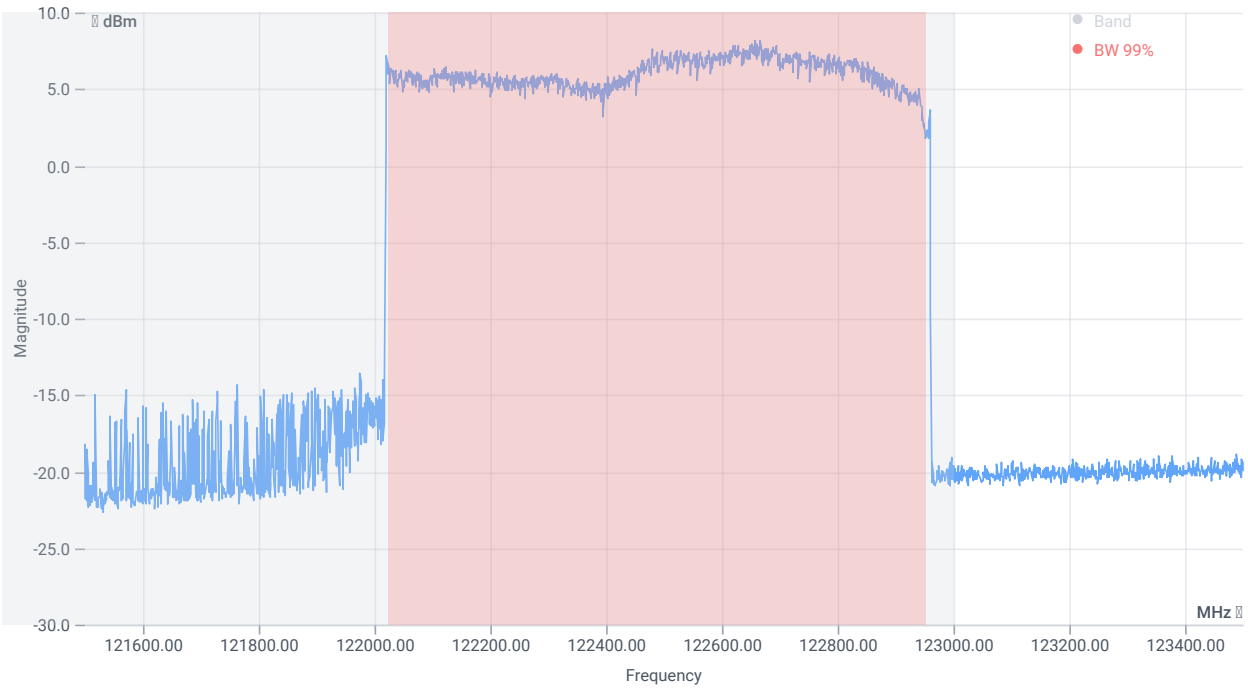
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	929.395	MHz	INFO
T1 99%	116000	---	122022.1902	MHz	PASS
T2 99%	---	123000	122951.5848	MHz	PASS

Test for temperature[°C]: 50 | voltage [V]: 24

READ SA SETTINGS:

RefLevel [dBm]	RefLevelOffset [dB]	InpAtt [dB]	30.00	47.6	0
Start [MHz]	Stop [MHz]	121500.000	123500.000
RBW [MHz]	VBW [MHz]	1.000000	3.000000
Detector	TraceMode	POS	MAXH
Sweep: time [ms]	count	points per Section	type	20000	1	2001	SWE



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RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	930.921	MHz	INFO
T1 99%	116000	---	122021.8735	MHz	PASS
T2 99%	---	123000	122952.7943	MHz	PASS

Verdict

PASS

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