

Frequency stability

No.1-7365-24-01-08_TR1-A201-R1

May 27, 2024

Test Standard(s)

Systems FCC.ISED - NI

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Authorized

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Systems FCC.ISED # Frequency stability over temperature & voltage ~ TID054 57000-64000 MHz

References

TC start	24.05.2024 13:41:56
Ambit temp [°C] humidity [rel%]	not enabled not enabled
System version	5.0.5.0
Standard Version	Systems FCC.ISED NI
Method	
Description	Systems FCC ISED Freq stability over temp/volt
Information	

Equipment

Signal analyzer,Rohde&Schwarz,FSW-50,1331.5003K50/101332,5.30SP1
Power supply,Agilent Technologies,N5767A,US14J1569P,B.00.06,REV:F
Climatic box,CTS T40/50,,NI

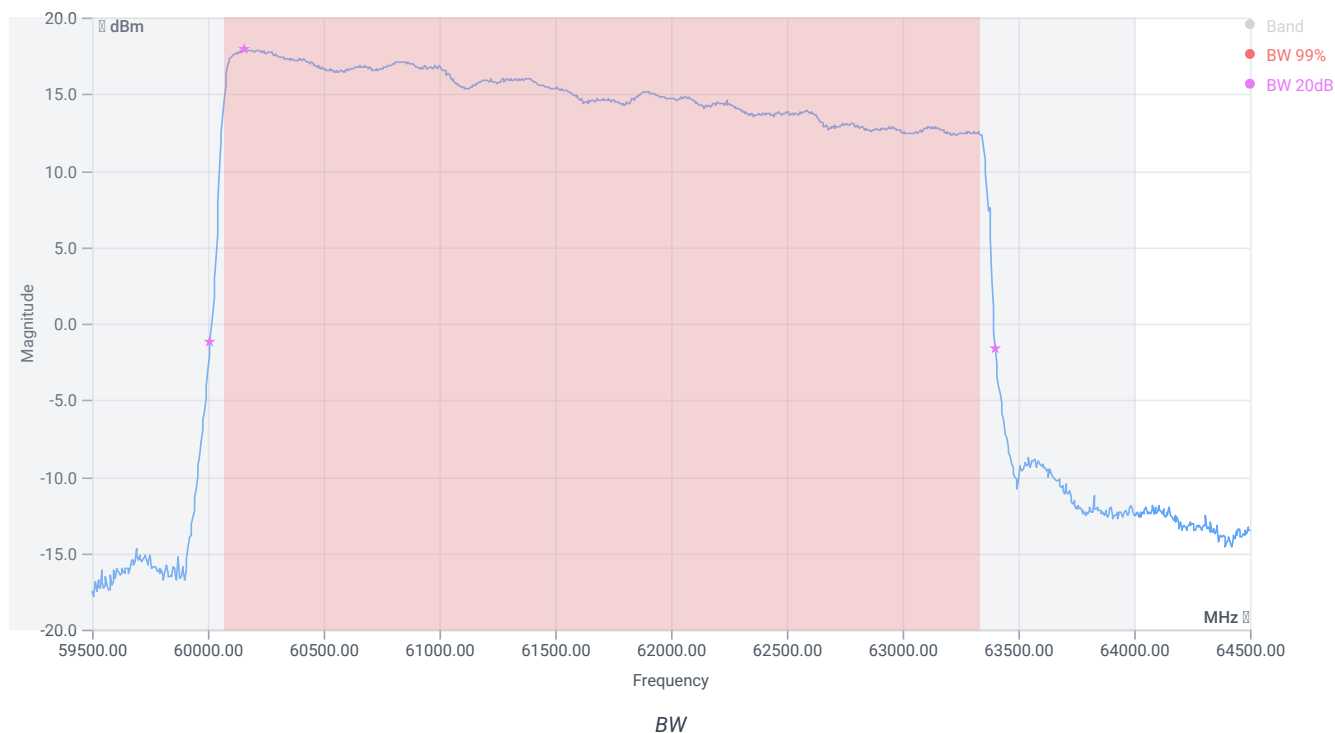
Test Parameter

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]	23.00 39.1 0
Start [MHz] Stop [MHz]	59500.000 64500.000
RBW [MHz] VBW [MHz]	50.000000 80.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	100000 1 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	3263.830	MHz	INFO
T1 99%	57000	---	60072.8789	MHz	PASS
T2 99%	---	64000	63336.7087	MHz	PASS

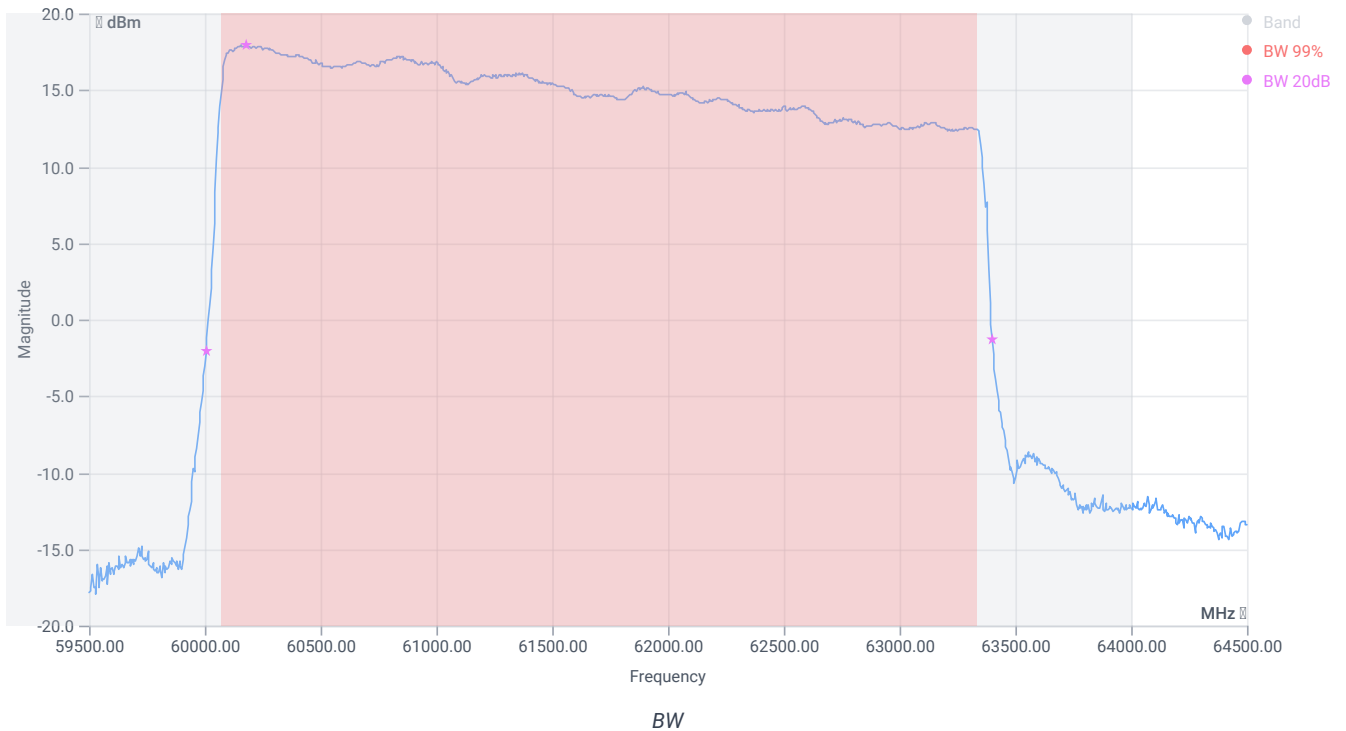
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	3390	MHz	INFO
Reference freq.	---	---	60160	MHz	INFO
T1 20dB	57000	---	60010.0000	MHz	PASS
T2 20dB	---	64000	63400.0000	MHz	PASS

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

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.00 39.1 0
Start [MHz] Stop [MHz]	59500.000 64500.000
RBW [MHz] VBW [MHz]	50.000000 80.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	100000 1 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	3265.032	MHz	INFO
T1 99%	57000	---	60071.9244	MHz	PASS
T2 99%	---	64000	63336.9562	MHz	PASS

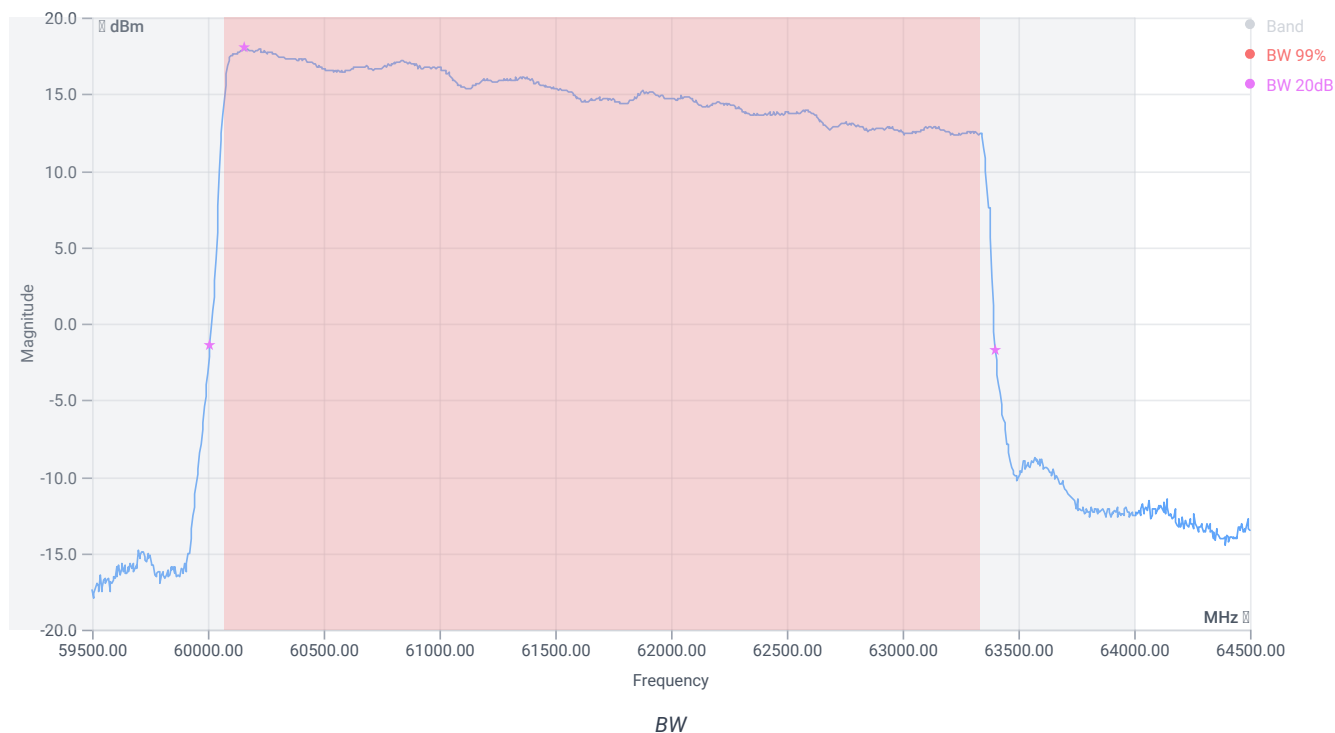
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	3395	MHz	INFO
Reference freq.	---	---	60180	MHz	INFO
T1 20dB	57000	---	60005.0000	MHz	PASS
T2 20dB	---	64000	63400.0000	MHz	PASS

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

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.00 39.1 0
Start [MHz] Stop [MHz]	59500.000 64500.000
RBW [MHz] VBW [MHz]	50.000000 80.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	100000 1 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	3263.974	MHz	INFO
T1 99%	57000	---	60073.0671	MHz	PASS
T2 99%	---	64000	63337.0414	MHz	PASS

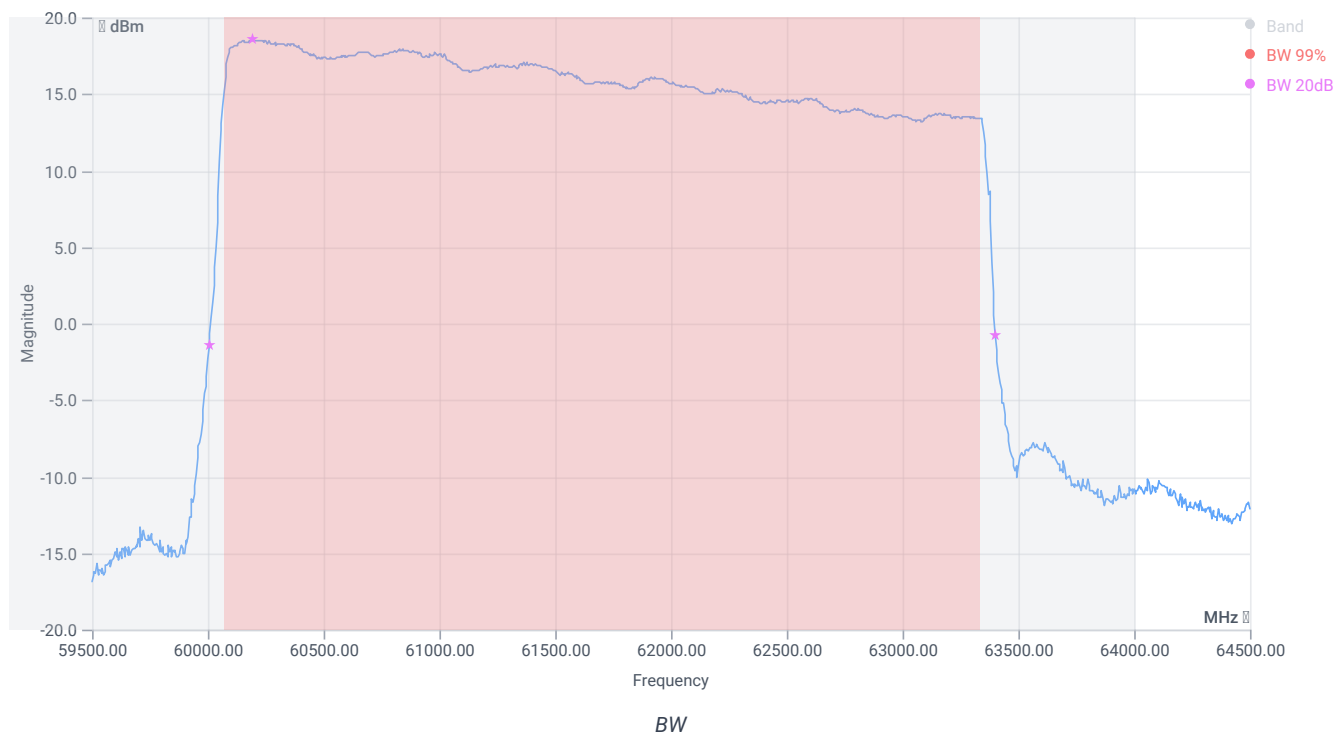
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	3390	MHz	INFO
Reference freq.	---	---	60155	MHz	INFO
T1 20dB	57000	---	60010.0000	MHz	PASS
T2 20dB	---	64000	63400.0000	MHz	PASS

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

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.00 39.1 0
Start [MHz] Stop [MHz]	59500.000 64500.000
RBW [MHz] VBW [MHz]	50.000000 80.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	100000 1 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	3263.768	MHz	INFO
T1 99%	57000	---	60074.1902	MHz	PASS
T2 99%	---	64000	63337.9581	MHz	PASS

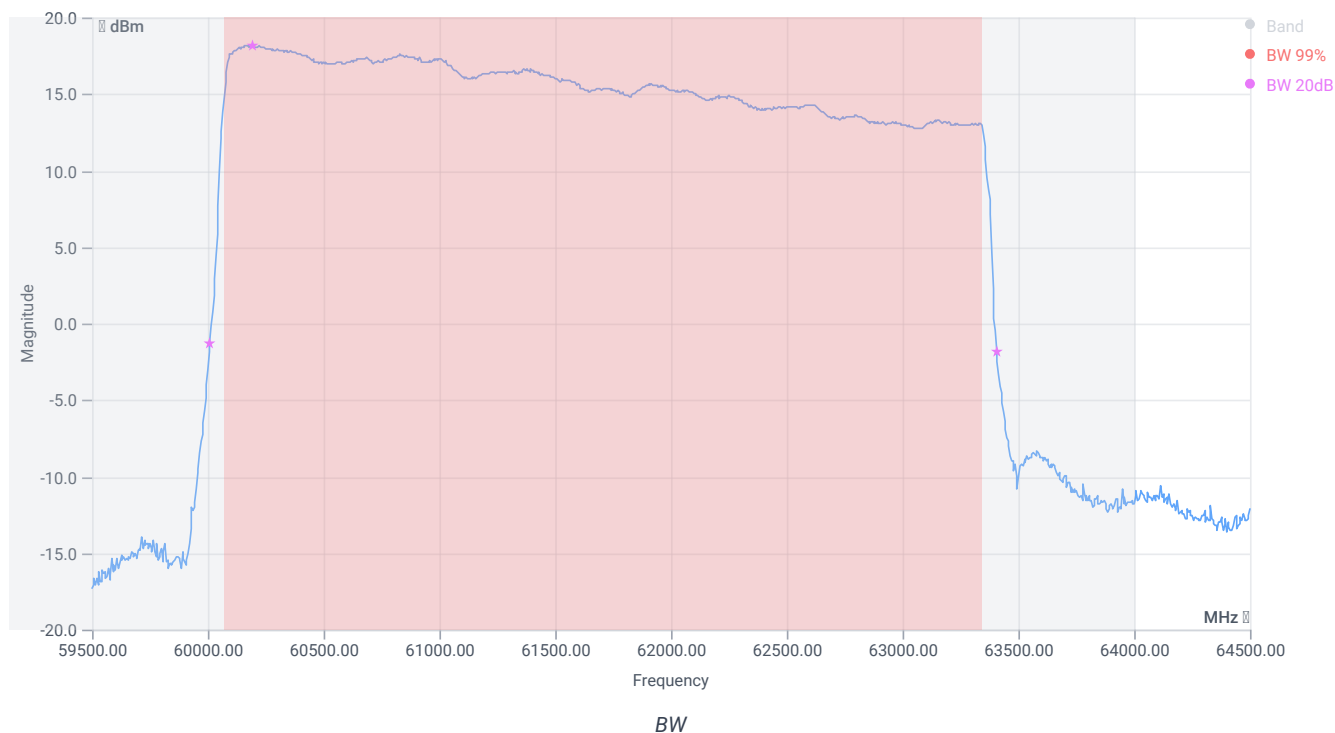
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	3395	MHz	INFO
Reference freq.	---	---	60190	MHz	INFO
T1 20dB	57000	---	60005.0000	MHz	PASS
T2 20dB	---	64000	63400.0000	MHz	PASS

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

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.00 39.1 0
Start [MHz] Stop [MHz]	59500.000 64500.000
RBW [MHz] VBW [MHz]	50.000000 80.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	100000 1 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	3264.829	MHz	INFO
T1 99%	57000	---	60074.5877	MHz	PASS
T2 99%	---	64000	63339.4171	MHz	PASS

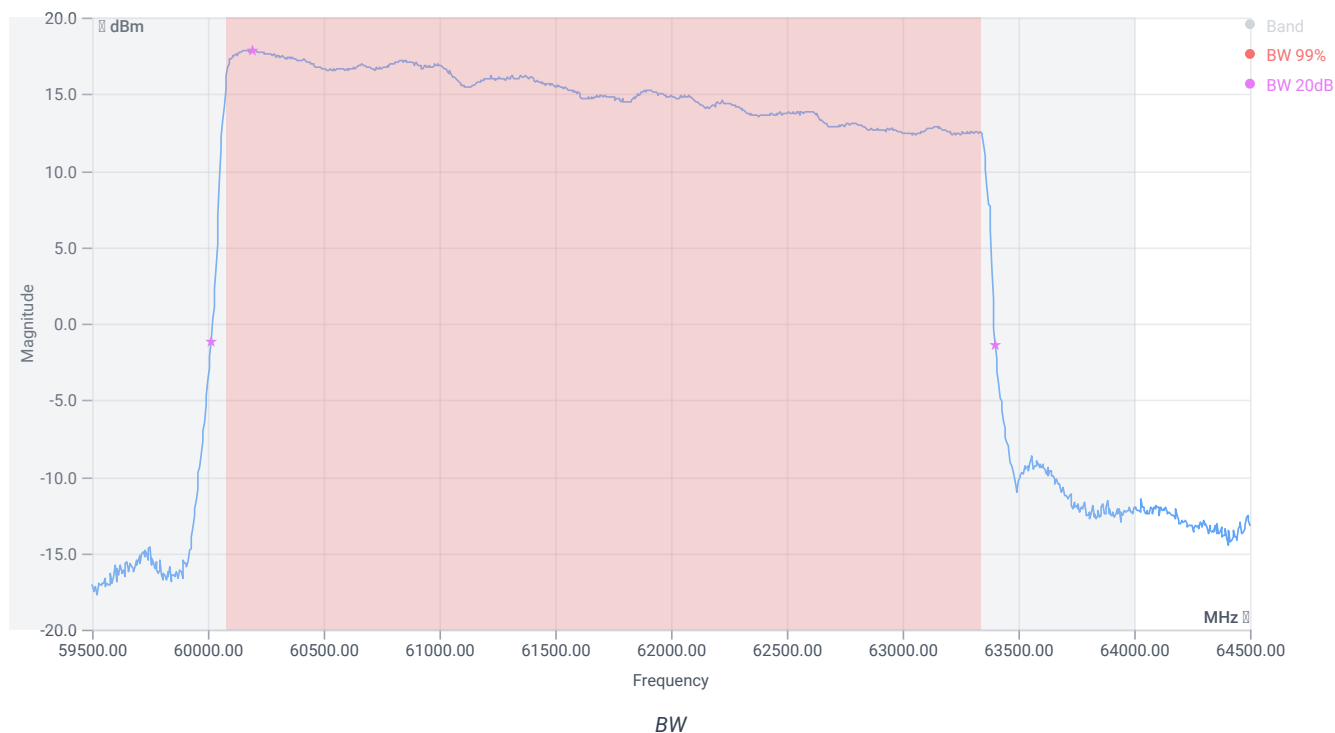
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	3395	MHz	INFO
Reference freq.	---	---	60190	MHz	INFO
T1 20dB	57000	---	60010.0000	MHz	PASS
T2 20dB	---	64000	63405.0000	MHz	PASS

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

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.00 39.1 0
Start [MHz] Stop [MHz]	59500.000 64500.000
RBW [MHz] VBW [MHz]	50.000000 80.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	100000 1 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	3262.354	MHz	INFO
T1 99%	57000	---	60075.1919	MHz	PASS
T2 99%	---	64000	63337.5456	MHz	PASS

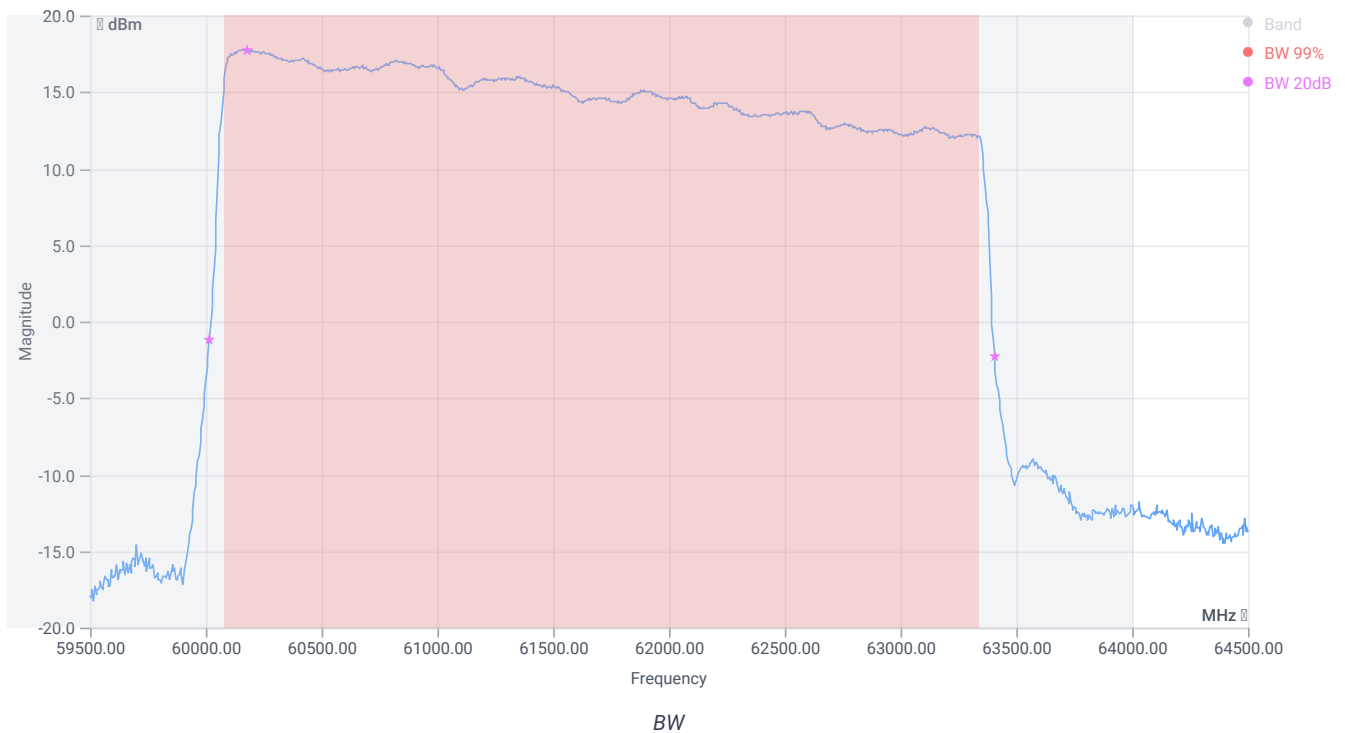
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	3385	MHz	INFO
Reference freq.	---	---	60190	MHz	INFO
T1 20dB	57000	---	60015.0000	MHz	PASS
T2 20dB	---	64000	63400.0000	MHz	PASS

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

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.00 39.1 0
Start [MHz] Stop [MHz]	59500.000 64500.000
RBW [MHz] VBW [MHz]	50.000000 80.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	100000 1 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	3262.400	MHz	INFO
T1 99%	57000	---	60075.6212	MHz	PASS
T2 99%	---	64000	63338.0215	MHz	PASS

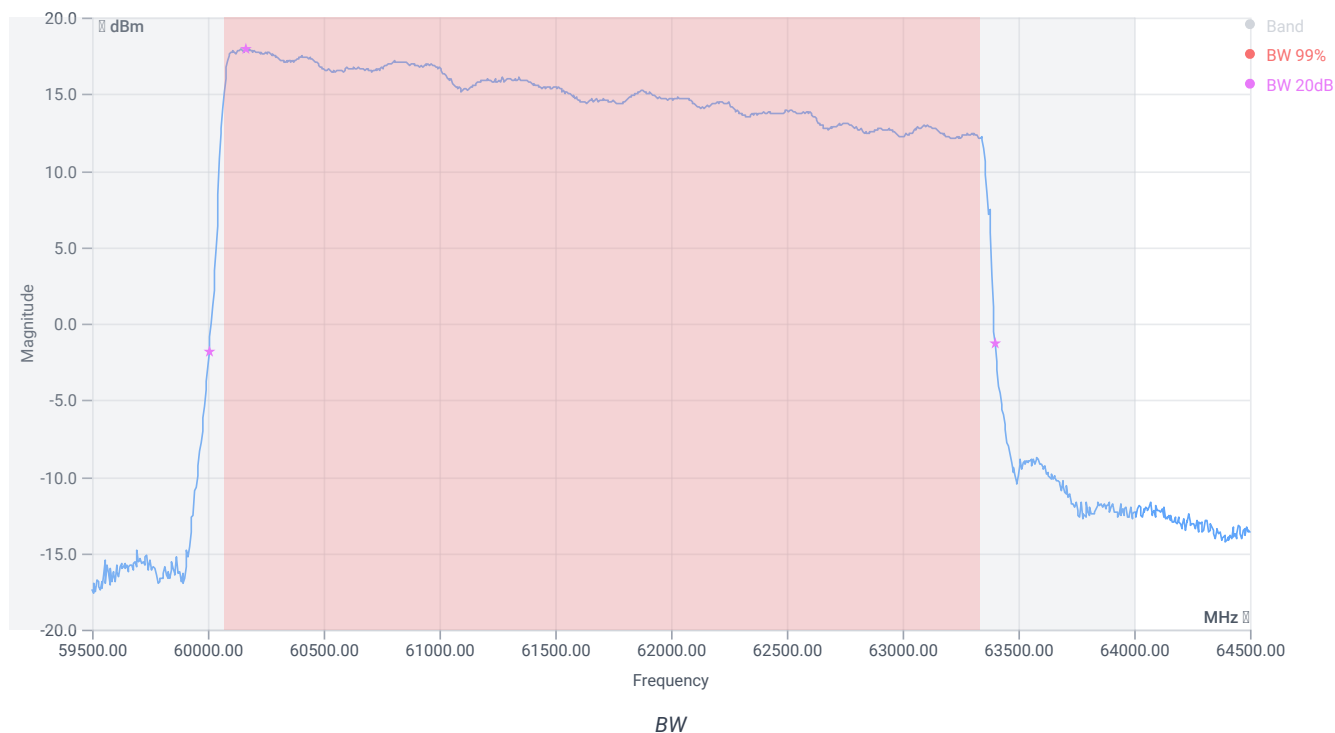
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	3390	MHz	INFO
Reference freq.	---	---	60180	MHz	INFO
T1 20dB	57000	---	60015.0000	MHz	PASS
T2 20dB	---	64000	63405.0000	MHz	PASS

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

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.00 39.1 0
Start [MHz] Stop [MHz]	59500.000 64500.000
RBW [MHz] VBW [MHz]	50.000000 80.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	100000 1 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	3265.092	MHz	INFO
T1 99%	57000	---	60071.0598	MHz	PASS
T2 99%	---	64000	63336.1520	MHz	PASS

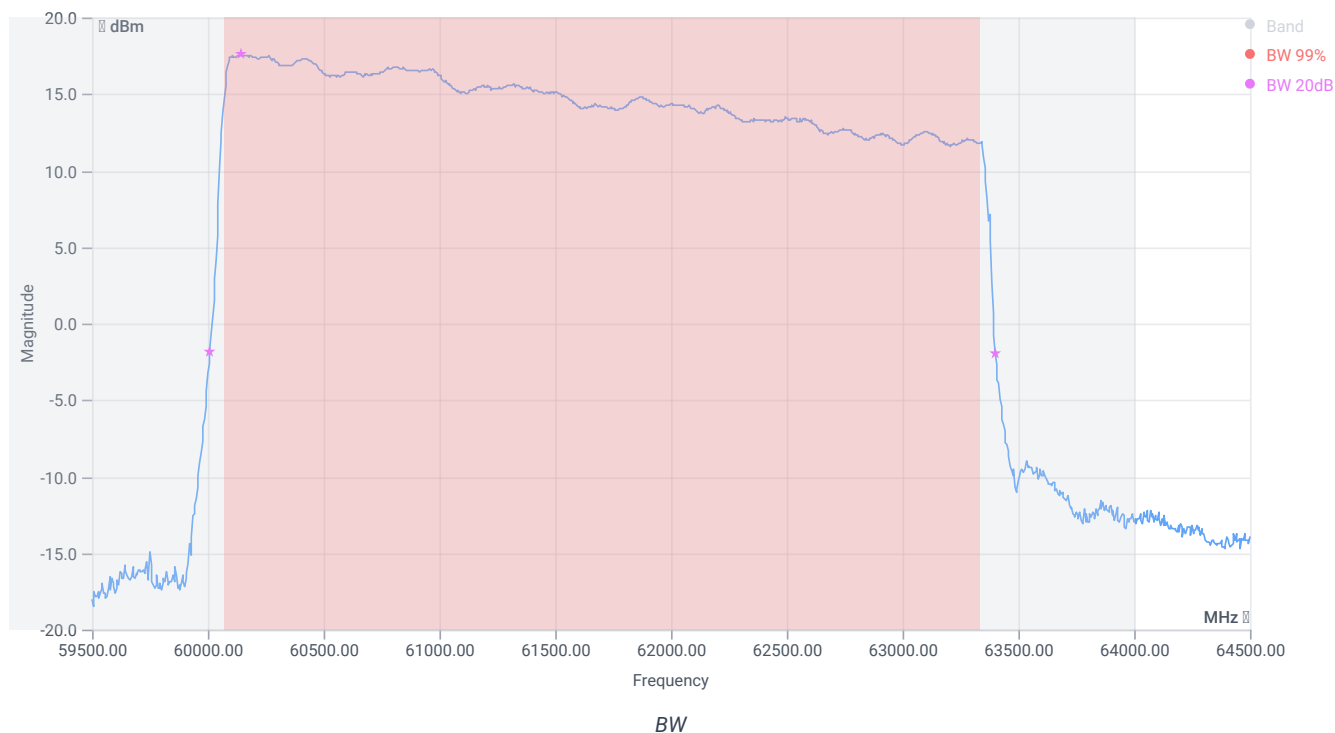
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	3395	MHz	INFO
Reference freq.	---	---	60165	MHz	INFO
T1 20dB	57000	---	60005.0000	MHz	PASS
T2 20dB	---	64000	63400.0000	MHz	PASS

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

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.00 39.1 0
Start [MHz] Stop [MHz]	59500.000 64500.000
RBW [MHz] VBW [MHz]	50.000000 80.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	100000 1 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	3264.220	MHz	INFO
T1 99%	57000	---	60071.5319	MHz	PASS
T2 99%	---	64000	63335.7515	MHz	PASS

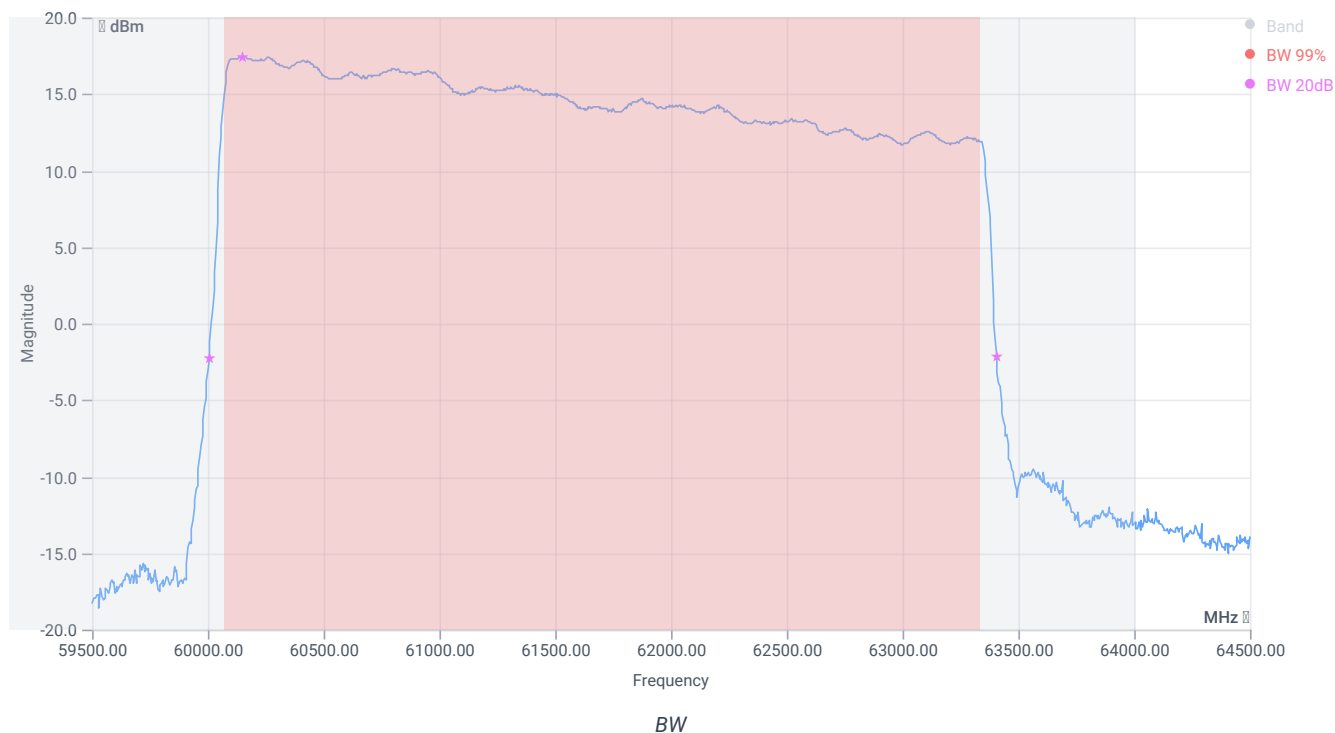
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	3390	MHz	INFO
Reference freq.	---	---	60140	MHz	INFO
T1 20dB	57000	---	60010.0000	MHz	PASS
T2 20dB	---	64000	63400.0000	MHz	PASS

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

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.00 39.1 0
Start [MHz] Stop [MHz]	59500.000 64500.000
RBW [MHz] VBW [MHz]	50.000000 80.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	100000 1 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	3269.806	MHz	INFO
T1 99%	57000	---	60069.4076	MHz	PASS
T2 99%	---	64000	63339.2133	MHz	PASS

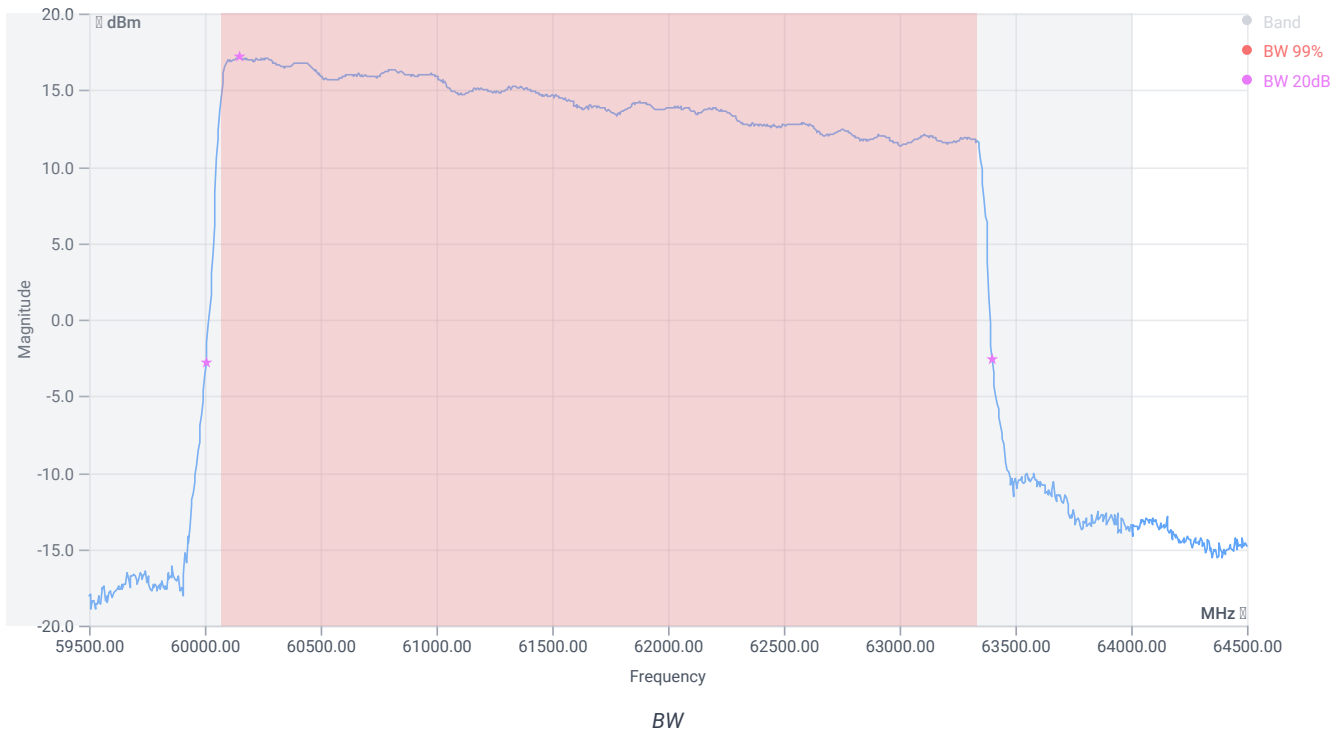
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	3400	MHz	INFO
Reference freq.	---	---	60150	MHz	INFO
T1 20dB	57000	---	60005.0000	MHz	PASS
T2 20dB	---	64000	63405.0000	MHz	PASS

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

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	23.00 39.1 0
Start [MHz] Stop [MHz]	59500.000 64500.000
RBW [MHz] VBW [MHz]	50.000000 80.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	100000 1 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	---	---	3265.381	MHz	INFO
T1 99%	57000	---	60069.8817	MHz	PASS
T2 99%	---	64000	63335.2625	MHz	PASS

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	---	---	3395	MHz	INFO
Reference freq.	---	---	60150	MHz	INFO
T1 20dB	57000	---	60005.0000	MHz	PASS
T2 20dB	---	64000	63400.0000	MHz	PASS

Verdict

PASS

- END OF DOCUMENT -