

Measurements Results

No.1-5252/22-01-02_Annex_MR_1

Test logging

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Test/s performed:

Stephan Thiel
Testing Manager
Radio Labs

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EUT Information

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EUT Information

EUT DEFINITION

Manufacturer	CIAS
Type	ERM0482X3PRO
Serial Number	NI
Setup Number	1.0
Version SW	NI
Version FW	NI
Version HW	NI
Comment 1	
Comment 2	
Temperature [°C] Min	-35
Temperature [°C] Nom	20
Temperature [°C] Max	70
Voltage [V] Min	11.5
Voltage [V] Nom	13.8
Voltage [V] Max	16

Test References

TC Start	03.04.2023 14:03:43
Ambit Temp [°C] Humidity [rel%]	not enabled not enabled
System Version	4.0.0.1
Test Specification	Systems FCC -
Test Method	
TC Version	0.0.1
My Description	Systems FCC Freq stability over temp/volt
Add. Information	

Test Parameter

Switched Path	none
Temp Variation enabled Voltage Variation enabled	Yes Yes
Additional Information	

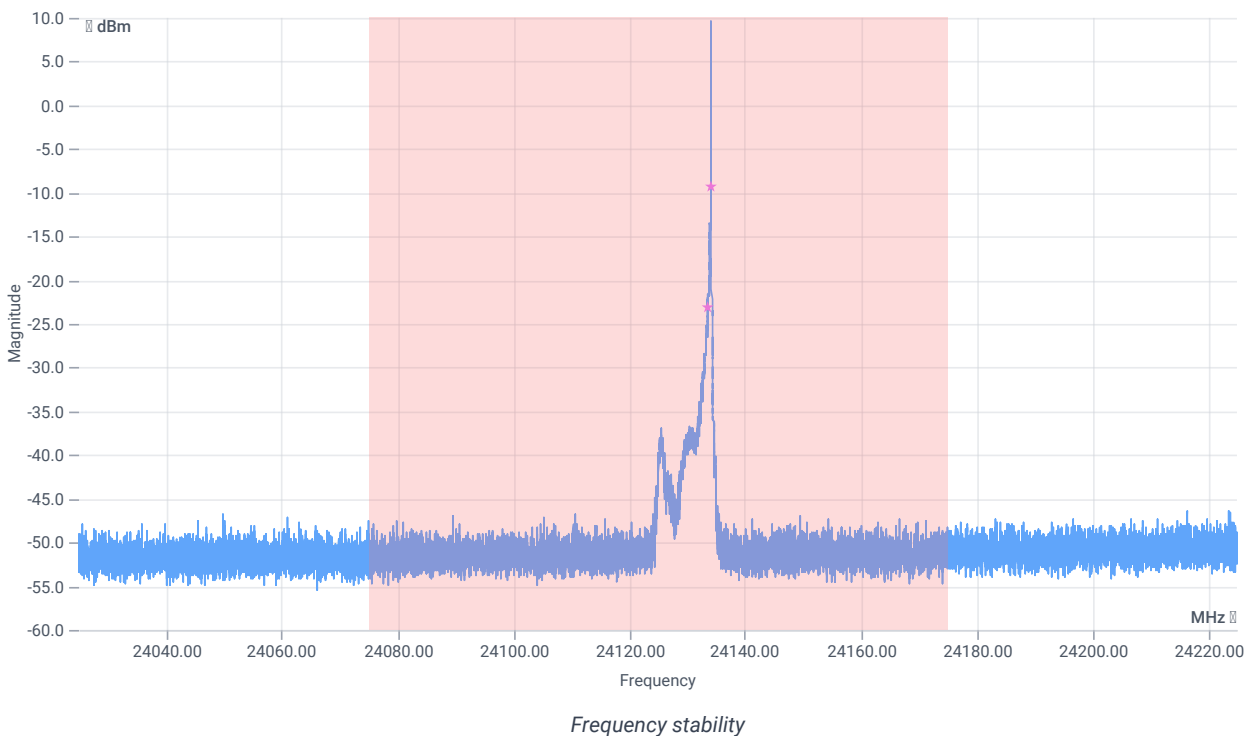
Test Equipment

Signal analyzer,Rohde&Schwarz,FSW-50,1331.5003K50/101332,5.20
Power supply,Agilent Technologies,N5767A,US26F7337F,A.05.06,REV:E
Climatic box,CTS T40/50,58566046820010,NI

Test for Temperature[°C]: 20 | Voltage [V]: 13.8

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.00 0 25
Start [MHz] Stop [MHz]	24025.000 24225.000
RBW [MHz] VBW [MHz]	0.010000 0.030000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	57000 1 20001 SWE



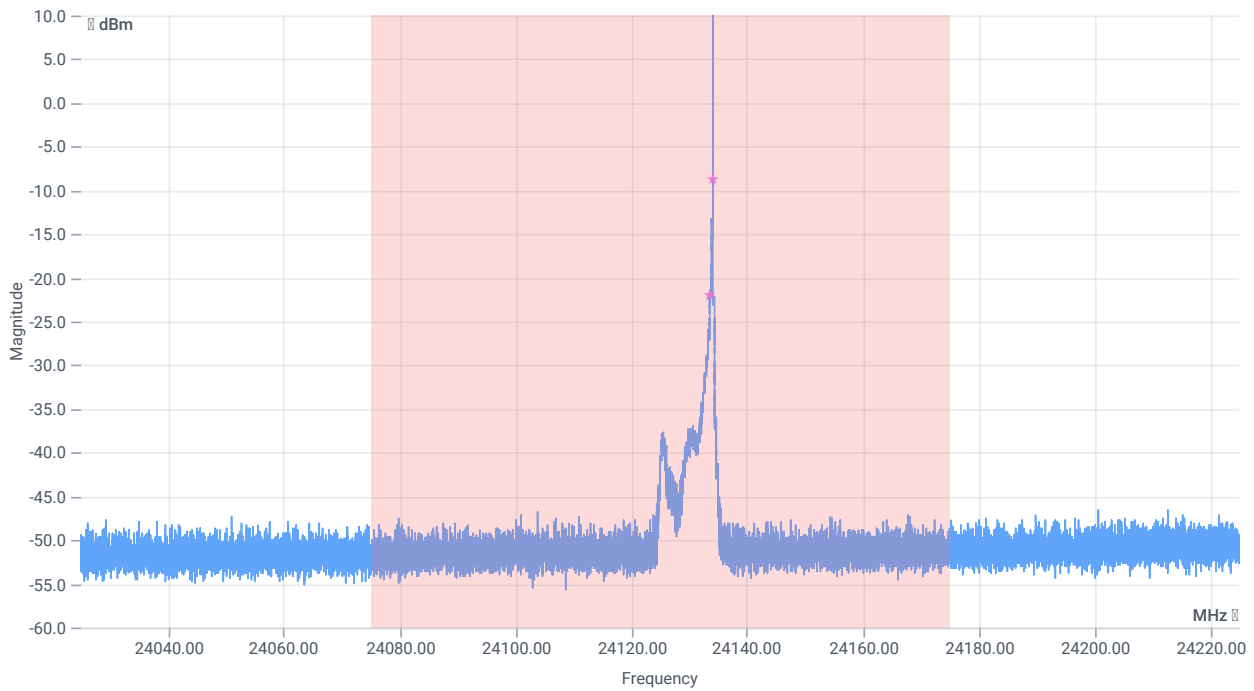
RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	0.594	MHz	INFO
T1 99%	24075	---	24133.6172	MHz	PASS
T2 99%	---	24175	24134.2107	MHz	PASS

Test for Temperature[°C]: 20 | Voltage [V]: 11.73

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.00 0 25
Start [MHz] Stop [MHz]	24025.000 24225.000
RBW [MHz] VBW [MHz]	0.010000 0.030000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	57000 1 20001 SWE



Frequency stability

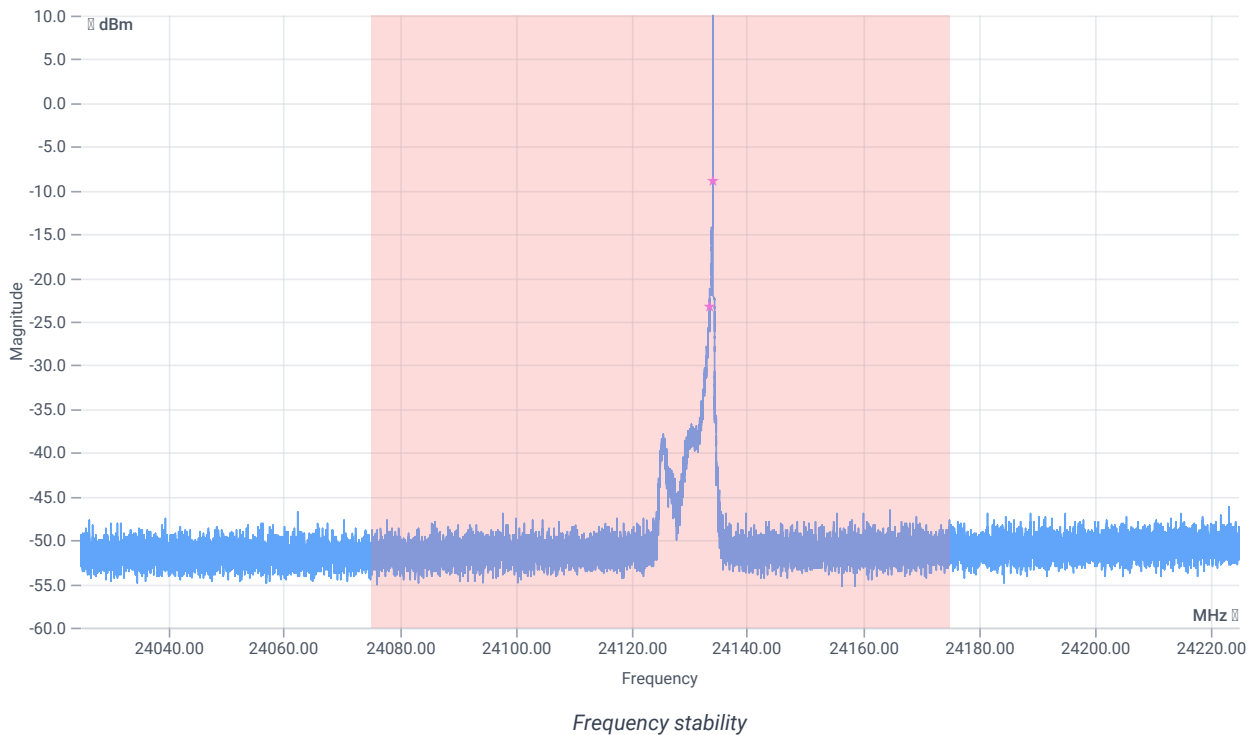
RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	--	--	0.505	MHz	INFO
T1 99%	24075	--	24133.6957	MHz	PASS
T2 99%	--	24175	24134.2003	MHz	PASS

Test for Temperature[°C]: 20 | Voltage [V]: 15.87

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.00 0 25
Start [MHz] Stop [MHz]	24025.000 24225.000
RBW [MHz] VBW [MHz]	0.010000 0.030000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	57000 1 20001 SWE



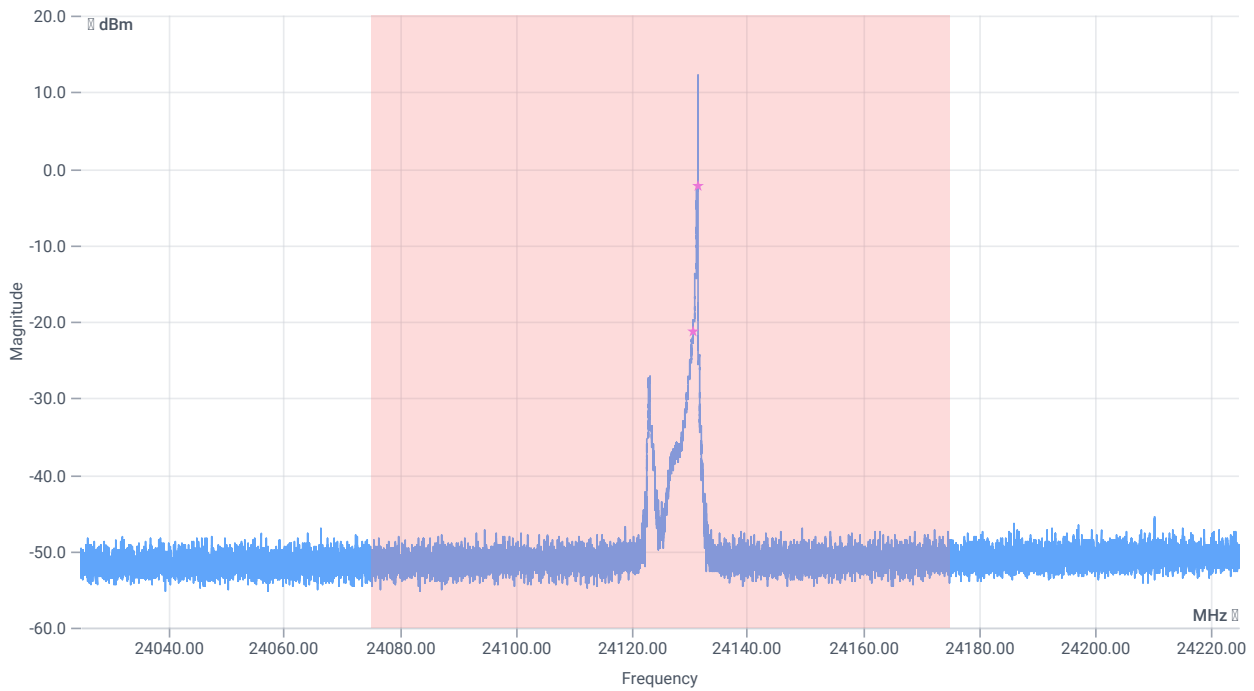
RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	--	--	0.574	MHz	INFO
T1 99%	24075	--	24133.6334	MHz	PASS
T2 99%	--	24175	24134.2071	MHz	PASS

Test for Temperature[°C]: -20 | Voltage [V]: 13.8

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.00 0 25
Start [MHz] Stop [MHz]	24025.000 24225.000
RBW [MHz] VBW [MHz]	0.010000 0.030000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	57000 1 20001 SWE



Frequency stability

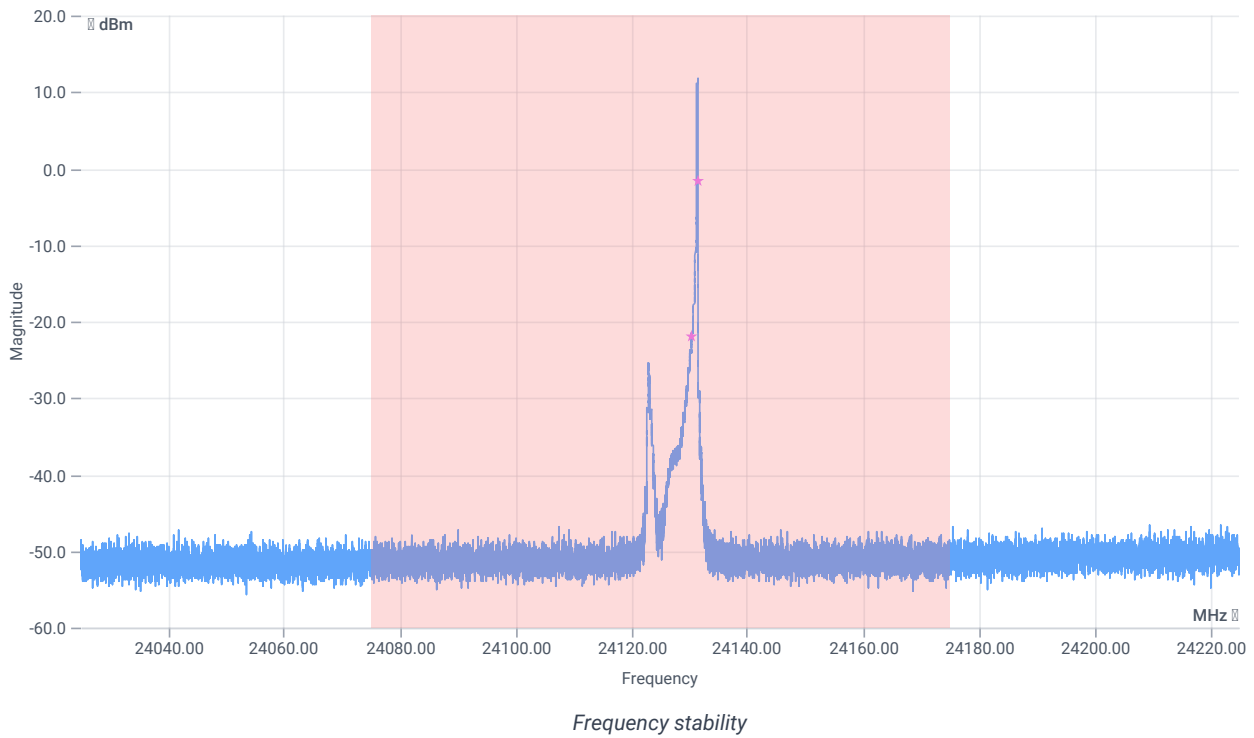
RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	--	--	0.795	MHz	INFO
T1 99%	24075	--	24130.7768	MHz	PASS
T2 99%	--	24175	24131.5721	MHz	PASS

Test for Temperature[°C]: -10 | Voltage [V]: 13.8

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.00 0 25
Start [MHz] Stop [MHz]	24025.000 24225.000
RBW [MHz] VBW [MHz]	0.010000 0.030000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	57000 1 20001 SWE



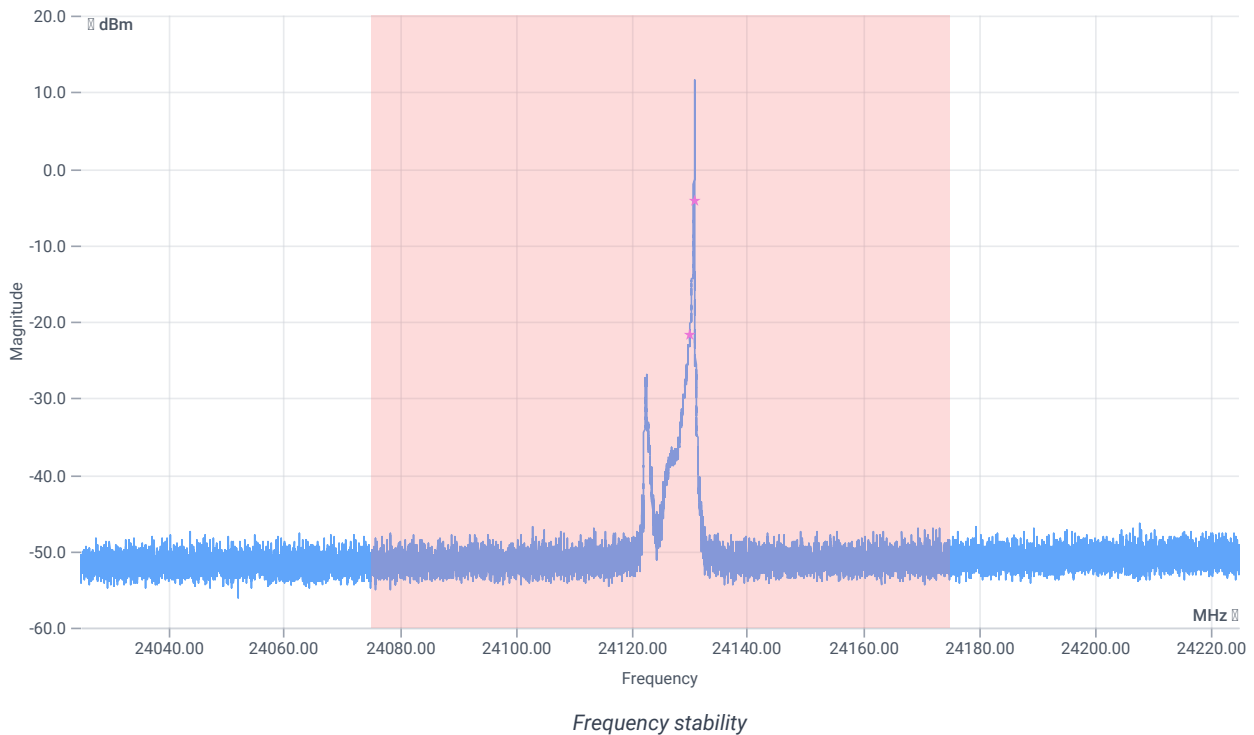
RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	--	--	0.915	MHz	INFO
T1 99%	24075	--	24130.5675	MHz	PASS
T2 99%	--	24175	24131.4823	MHz	PASS

Test for Temperature[°C]: 0 | Voltage [V]: 13.8

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.00 0 25
Start [MHz] Stop [MHz]	24025.000 24225.000
RBW [MHz] VBW [MHz]	0.010000 0.030000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	57000 1 20001 SWE



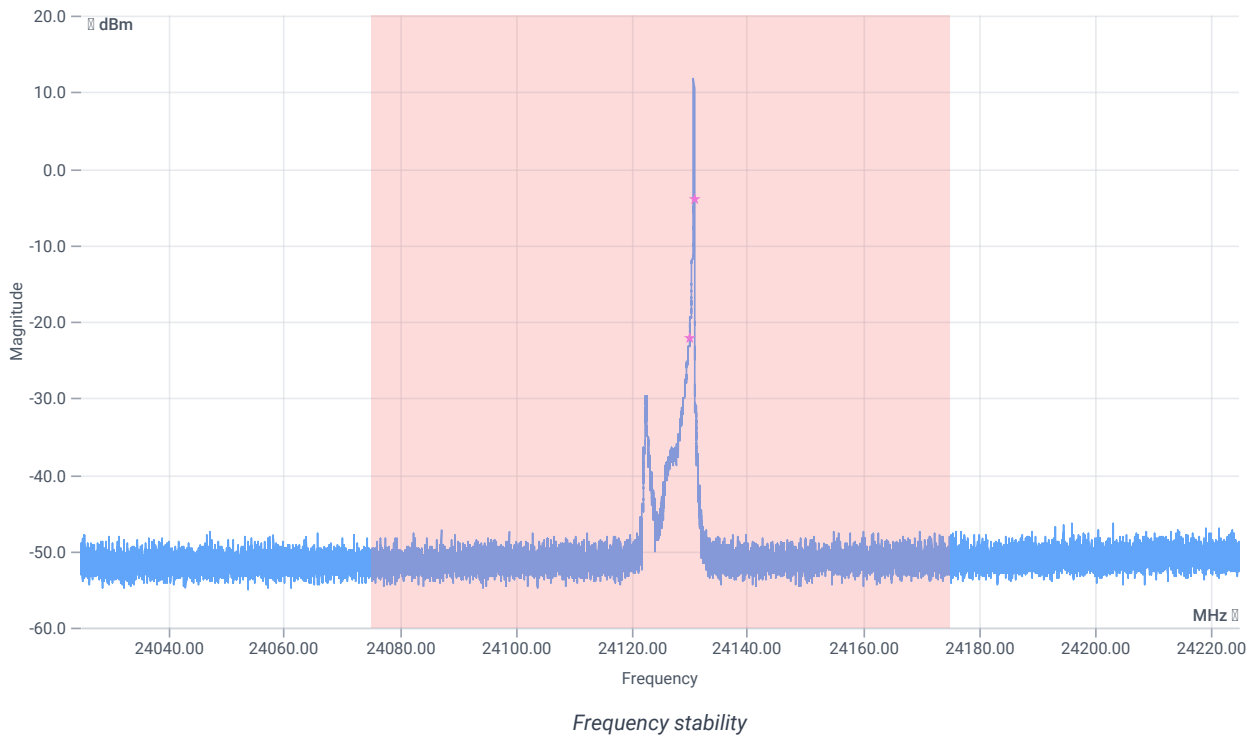
RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	--	--	0.816	MHz	INFO
T1 99%	24075	--	24130.1761	MHz	PASS
T2 99%	--	24175	24130.9920	MHz	PASS

Test for Temperature[°C]: 10 | Voltage [V]: 13.8

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.00 0 25
Start [MHz] Stop [MHz]	24025.000 24225.000
RBW [MHz] VBW [MHz]	0.010000 0.030000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	57000 1 20001 SWE



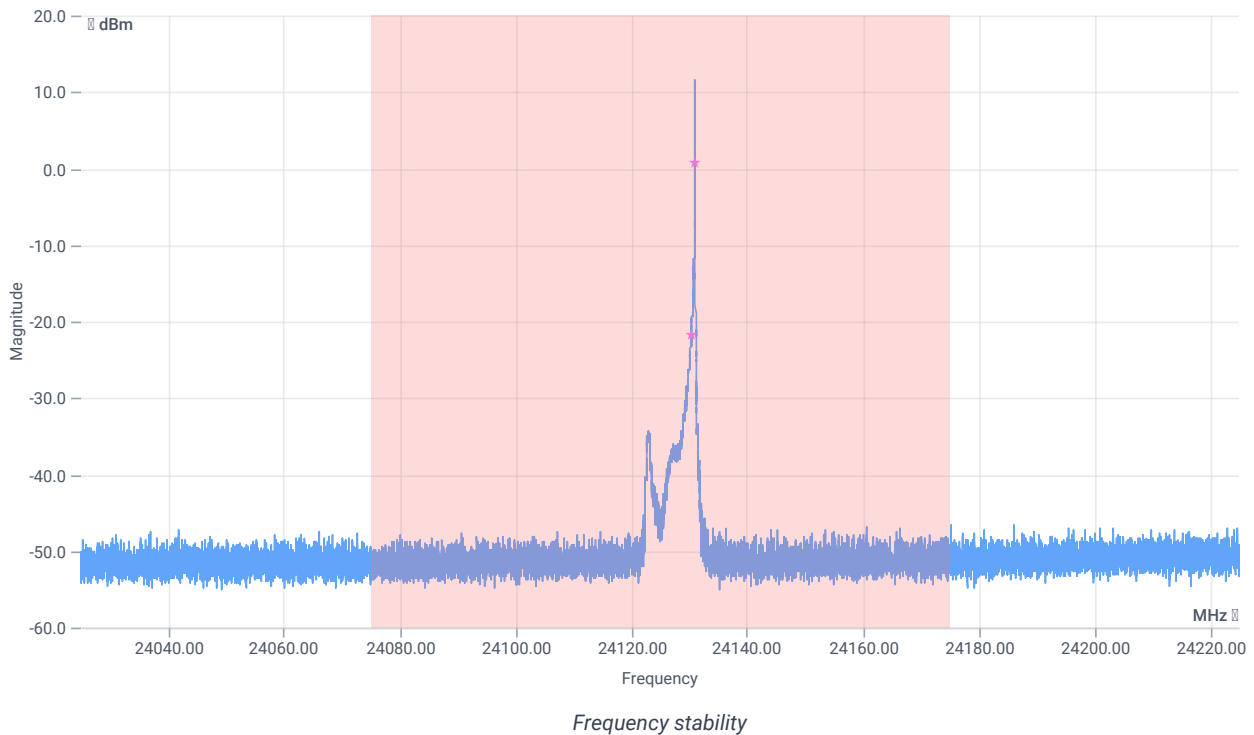
RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	--	--	0.765	MHz	INFO
T1 99%	24075	--	24130.1176	MHz	PASS
T2 99%	--	24175	24130.8825	MHz	PASS

Test for Temperature[°C]: 20 | Voltage [V]: 13.8

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.00 0 25
Start [MHz] Stop [MHz]	24025.000 24225.000
RBW [MHz] VBW [MHz]	0.010000 0.030000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	57000 1 20001 SWE



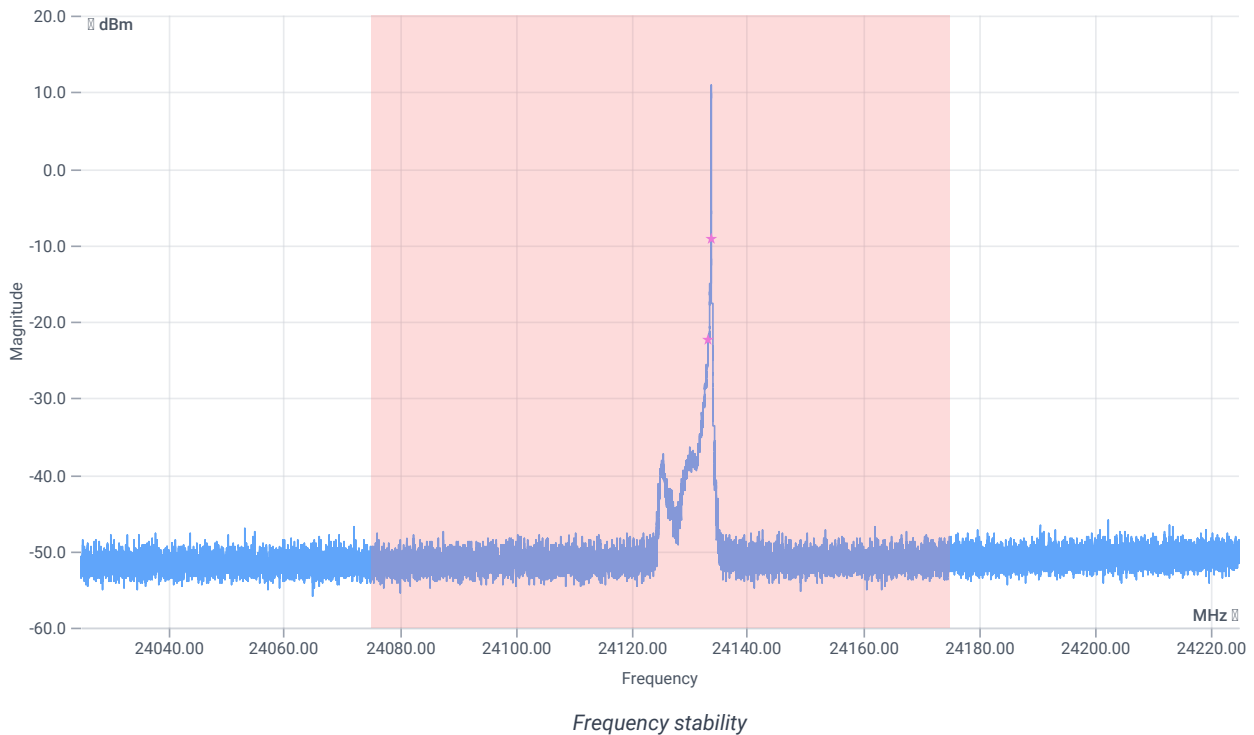
RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	--	--	0.621	MHz	INFO
T1 99%	24075	--	24130.4639	MHz	PASS
T2 99%	--	24175	24131.0846	MHz	PASS

Test for Temperature[°C]: 30 | Voltage [V]: 13.8

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.00 0 25
Start [MHz] Stop [MHz]	24025.000 24225.000
RBW [MHz] VBW [MHz]	0.010000 0.030000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	57000 1 20001 SWE



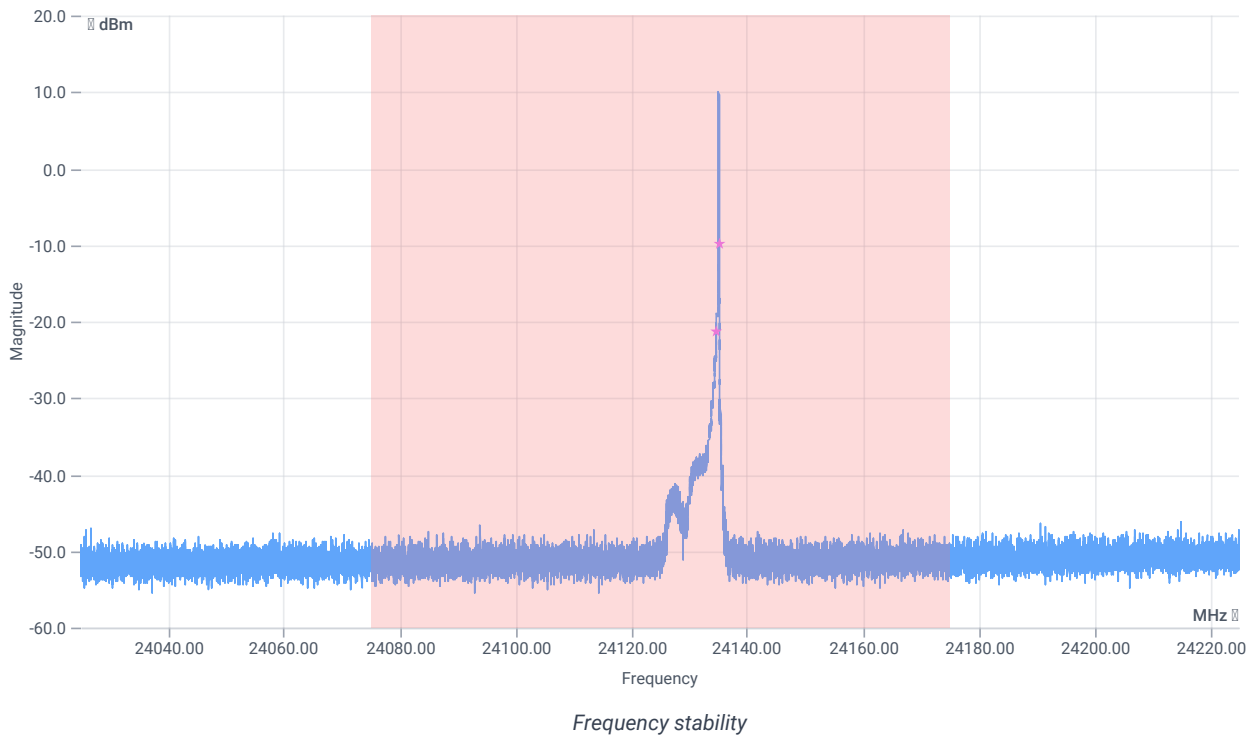
RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	0.553	MHz	INFO
T1 99%	24075	---	24133.4028	MHz	PASS
T2 99%	---	24175	24133.9556	MHz	PASS

Test for Temperature[°C]: 40 | Voltage [V]: 13.8

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.00 0 25
Start [MHz] Stop [MHz]	24025.000 24225.000
RBW [MHz] VBW [MHz]	0.010000 0.030000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	57000 1 20001 SWE



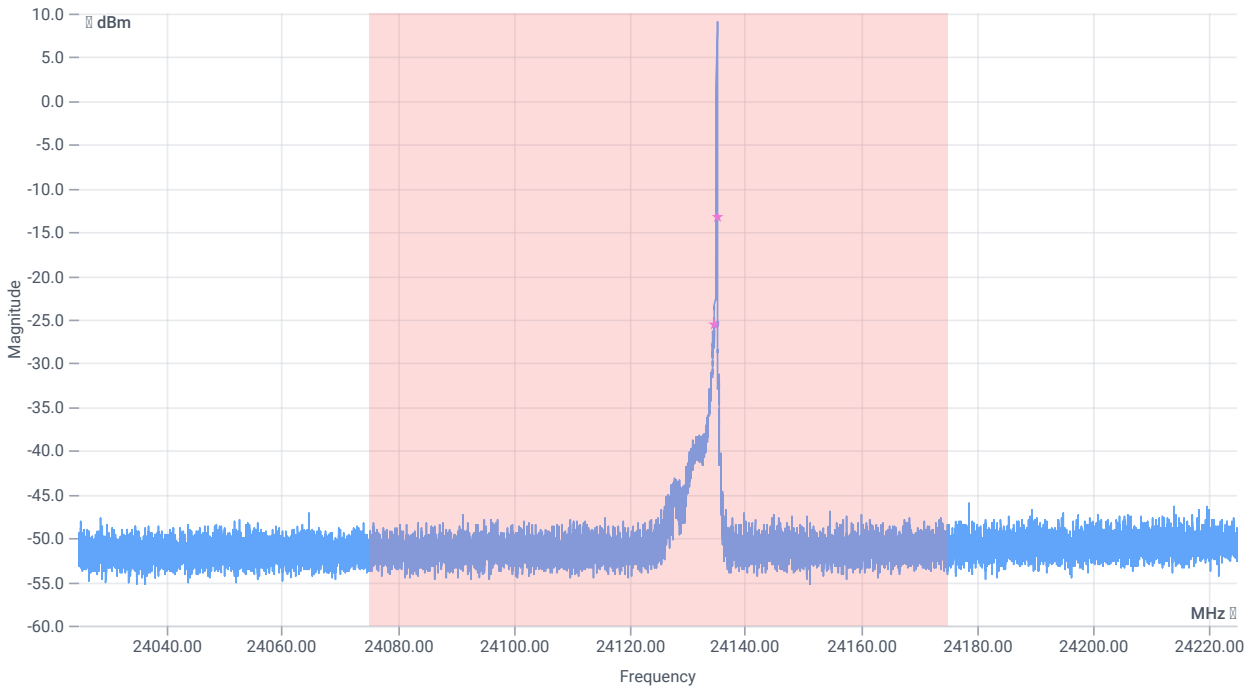
RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	--	--	0.431	MHz	INFO
T1 99%	24075	--	24134.7506	MHz	PASS
T2 99%	--	24175	24135.1820	MHz	PASS

Test for Temperature[°C]: 50 | Voltage [V]: 13.8

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.00 0 25
Start [MHz] Stop [MHz]	24025.000 24225.000
RBW [MHz] VBW [MHz]	0.010000 0.030000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	57000 1 20001 SWE



Frequency stability

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	--	--	0.509	MHz	INFO
T1 99%	24075	--	24134.7083	MHz	PASS
T2 99%	--	24175	24135.2178	MHz	PASS

Verdict

PASS

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