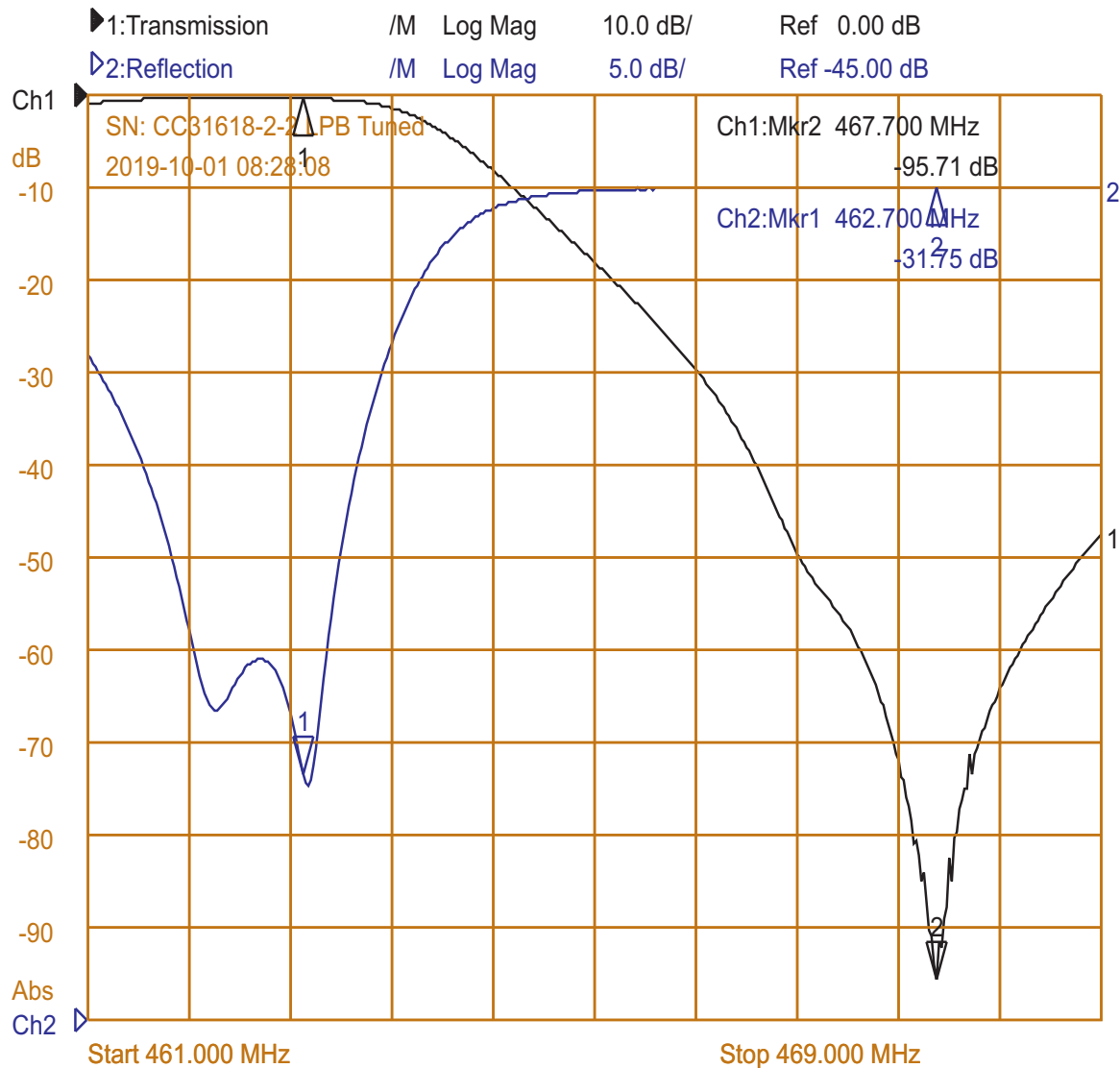


Sinclair Q3220E UHF 4-Cavity Duplexer

S/N: CC31618-2-2

Low Pass Branch Return Loss/SWR After Tuning



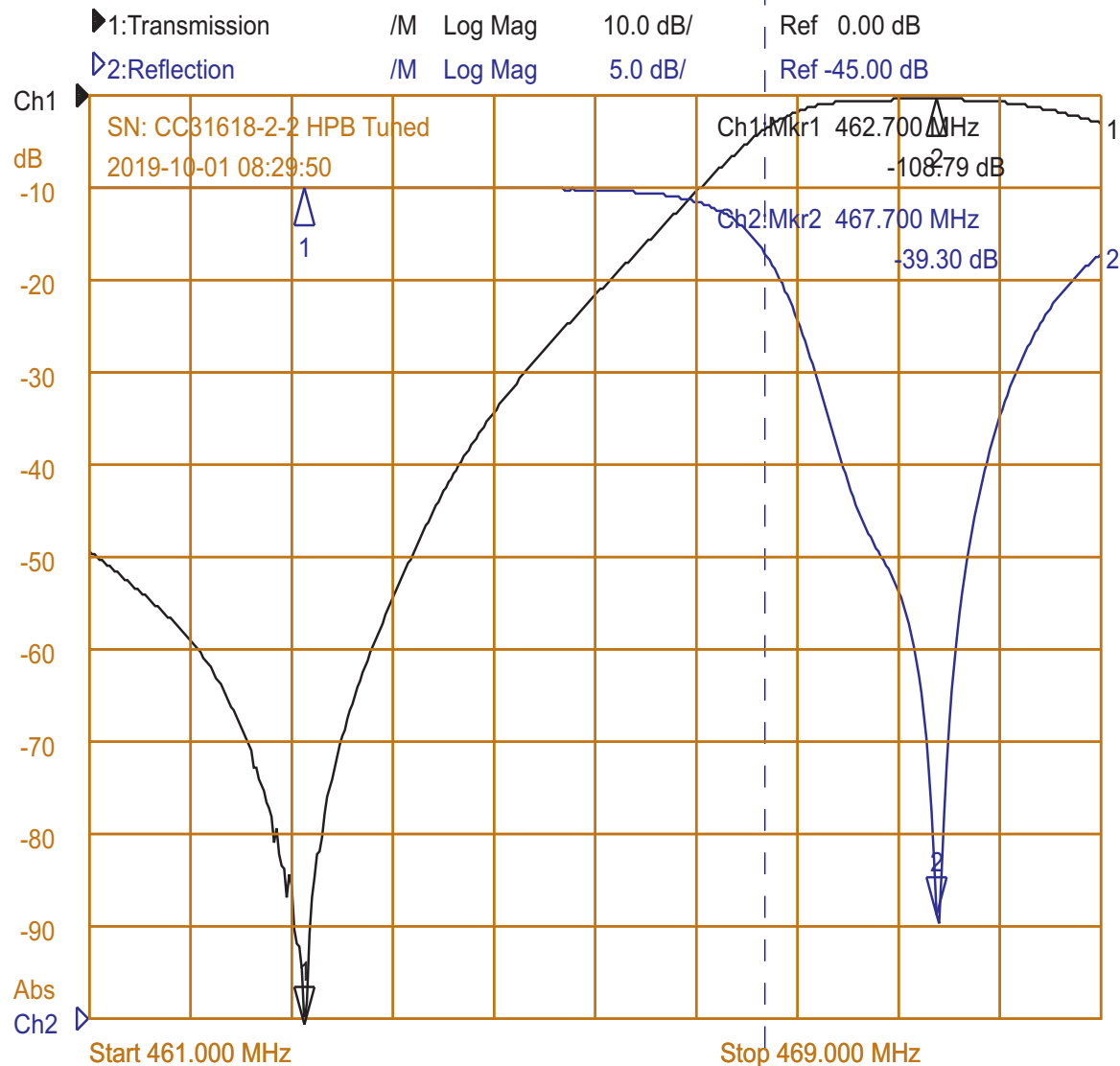
1:Mkr (MHz) dB	2:Mkr (MHz) dB
1: 462.70 -0.38	1> 462.70 -31.75
2> 467.70 -95.71	2: 467.70 0.00
Isolation: 95.71 dB	Return Loss: 31.75 dB VSWR: 1.053:1 Match Efficiency: 99.933%

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(334) 444-6796 www.DuplexerRepair.com
(A Service of Alabama Broadcast Services, LLC)

Sinclair Q3220E UHF 4-Cavity Duplexer

S/N: CC31618-2-2

High Pass Branch Return Loss/SWR After Tuning



1:Mkr (MHz) dB	2:Mkr (MHz) dB
1> 462.70 -108.79	1: 462.70 0.03
2: 467.70 -0.42	2> 467.70 -39.30
Isolation: 108.79 dB	Return Loss: 39.30 dB VSWR: 1.022:1 Match Efficiency: 99.988%

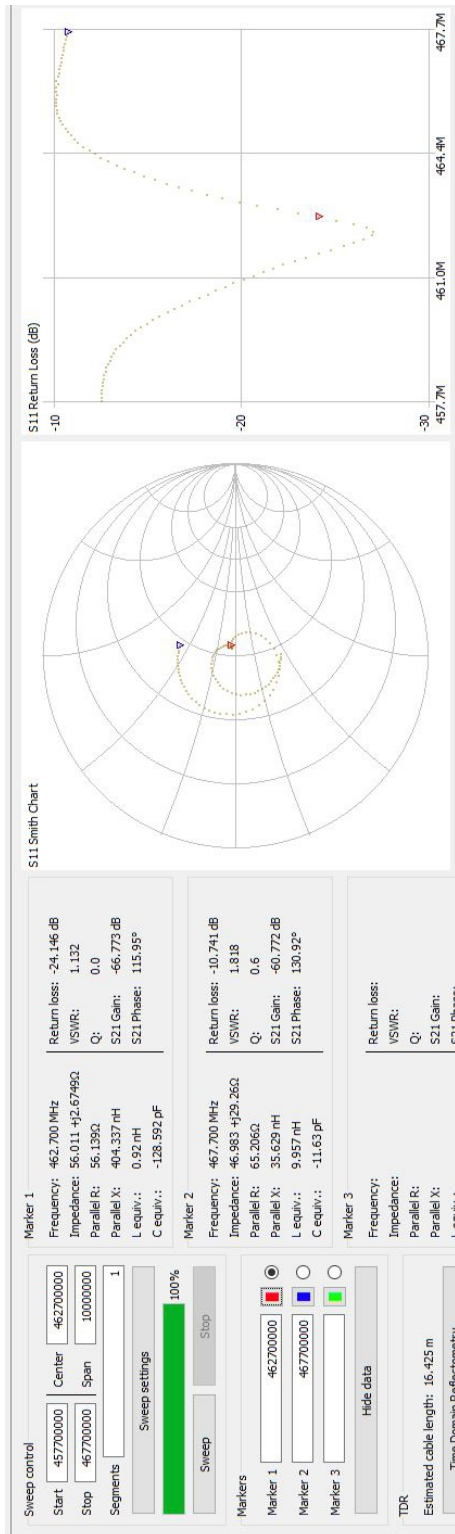
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Sinclair Q3220E UHF 4-Cavity Duplexer

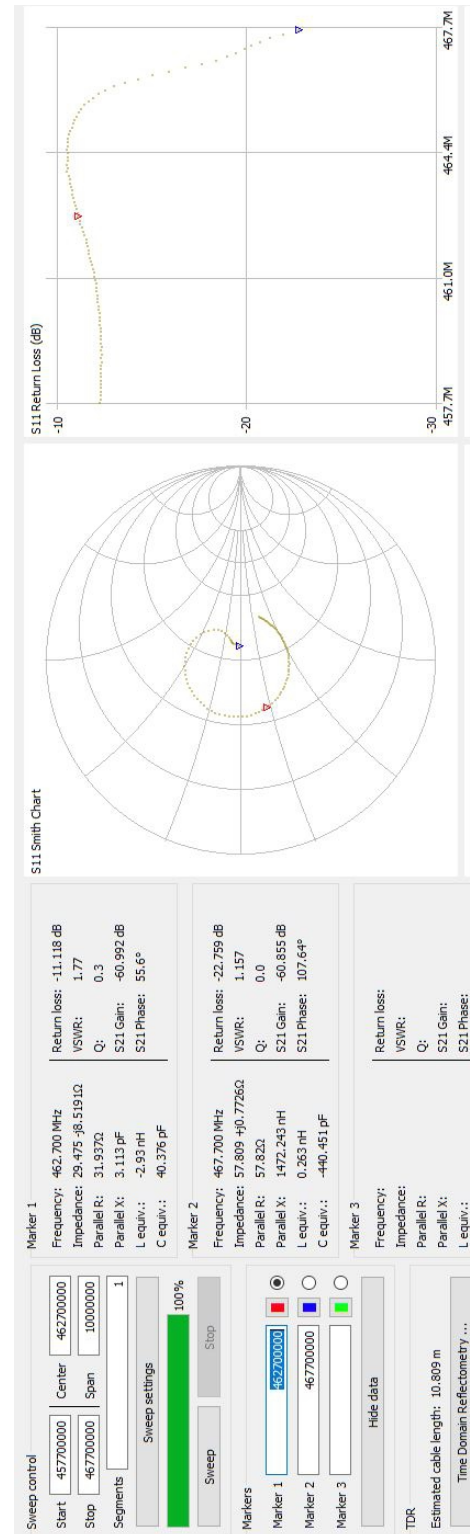
S/N: CC31618-2-2

S11/Smith Chart Impedance Tests After Tuning

Low Pass Branch



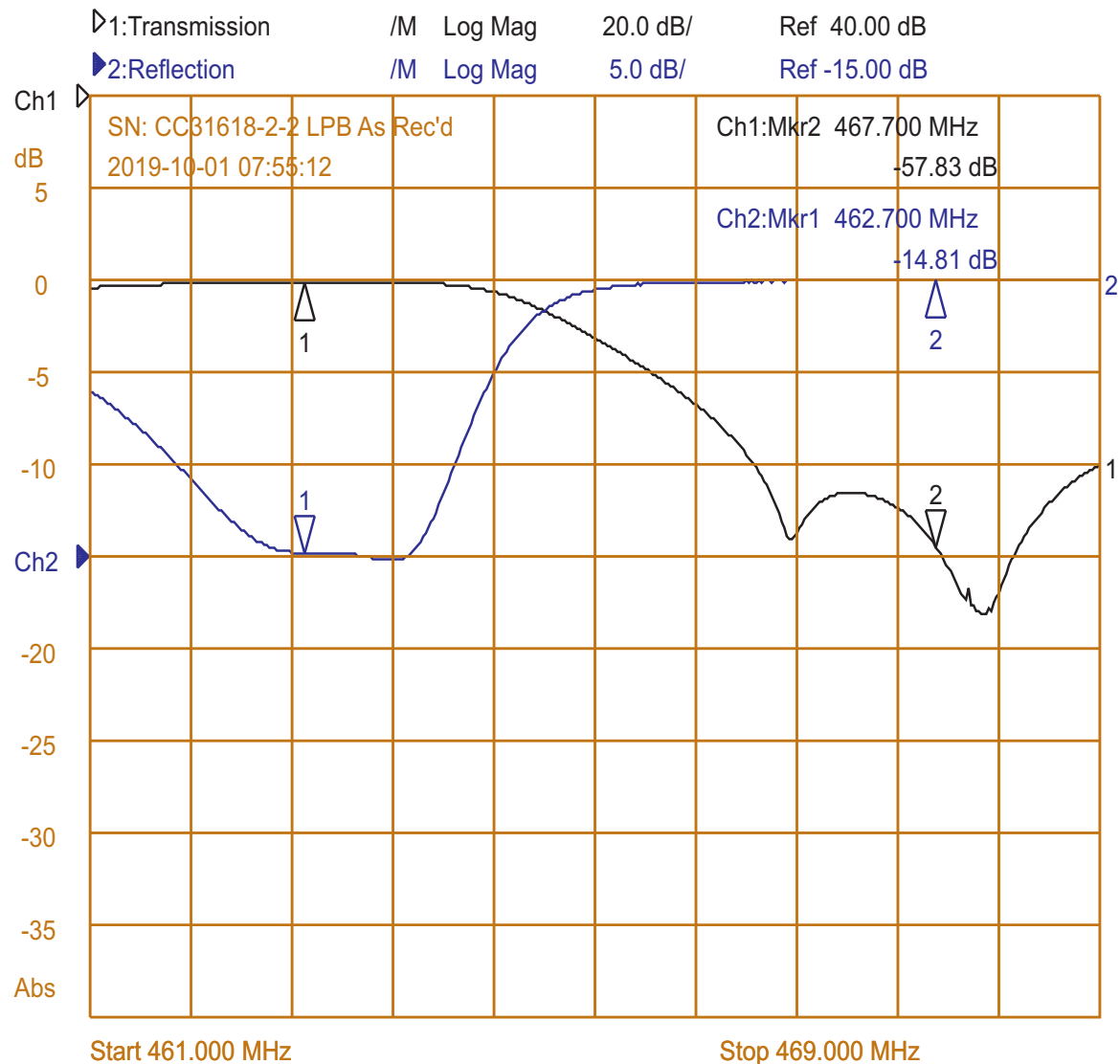
High Pass Branch



Sinclair Q3220E UHF 4-Cavity Duplexer

S/N: CC31618-2-2

Low Pass Branch Return Loss/SWR As Received



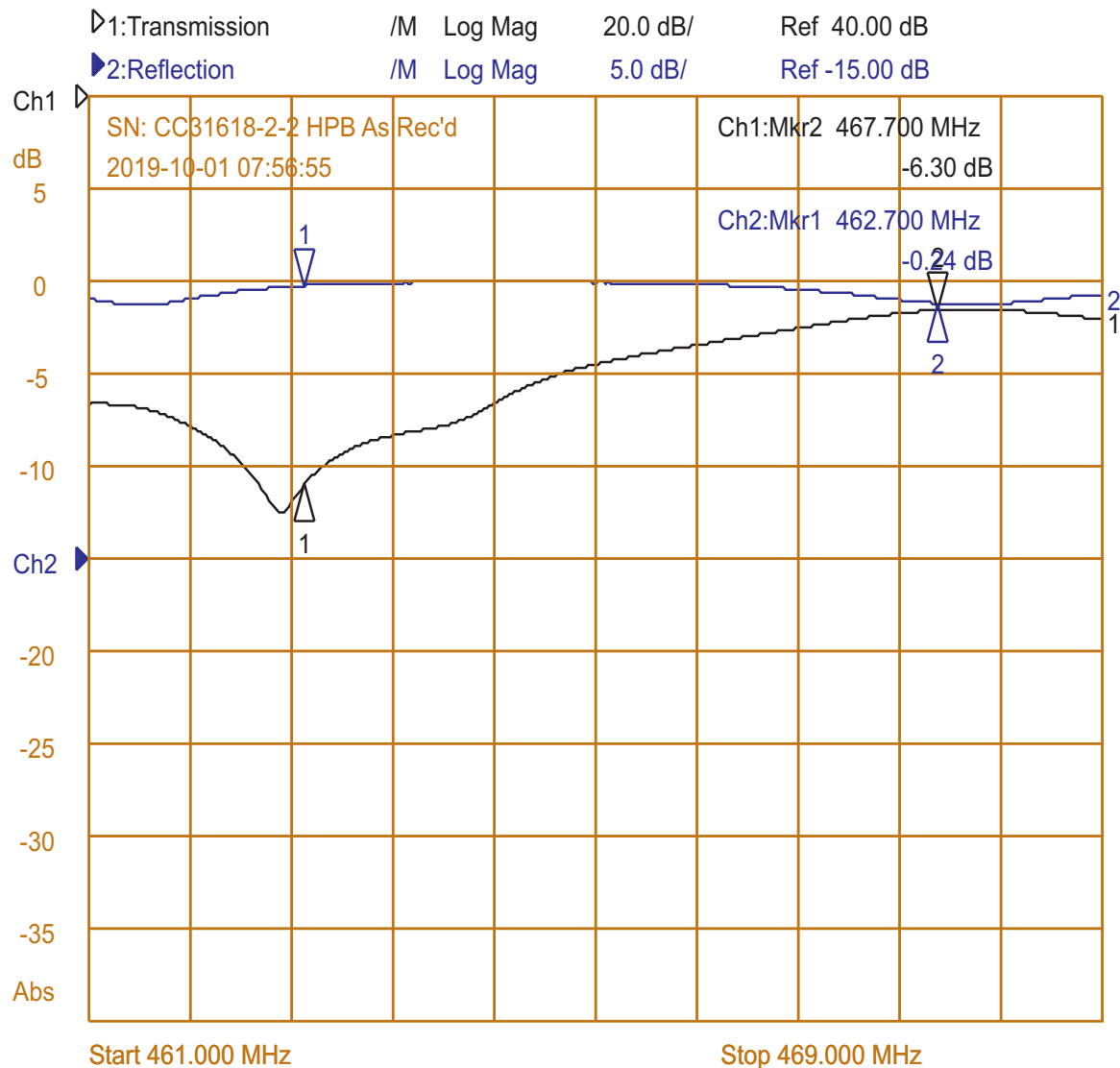
1:Mkr (MHz) dB	2:Mkr (MHz) dB
1: 462.70 -0.50	1> 462.70 -14.81
2> 467.70 -57.83	2: 467.70 -0.05
Isolation: 57.83 dB	Return Loss: 14.81 dB VSWR: 1.444:1 Match Efficiency: 96.696%

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Sinclair Q3220E UHF 4-Cavity Duplexer

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High Pass Branch Return Loss/SWR As Received



1:Mkr (MHz) dB	2:Mkr (MHz) dB
1: 462.70 -43.99	1> 462.70 -0.24
2> 467.70 -6.30	2: 467.70 -1.21
Isolation: 43.99 dB	Return Loss: 1.21 dB VSWR: 14.380:1 Match Efficiency: 24.317%

Sinclair Q3220E UHF 4-Cavity Duplexer

S/N: CC31618-2-2

Service/Reference Photos



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