

S E R V I C E N O T E

SUPERSEDES: NONE

85420E RF Filter Section
85460A RF Filter Section
8542E EMI Receiver System
8546A EMI Receiver System

Serial Numbers: 0000A00000 / 9999Z99999

48 MHz Residual

Duplicate Service Notes: 85420E-06
8546A-06
8542E-06

To Be Performed By: Agilent-Qualified Personnel**Situation:**

The Motorola MC68000P8 (NMOS) Microprocessor was originally changed to the Motorola MC86HC000P8 (CMOS) version because of a part discontinuance. Soon afterward, the production line started to notice a residual at 48 MHz. This residual tracked with the version of microprocessor installed in the RF Filter Section. It was determined that the best way to deal with the residual was to return to the original microprocessor (Motorola MC68000P8), and complete a life-time buy.

Continued

DATE: January 2000

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
MODIFICATION RECOMMENDED			
ACTION CATEGORY:	☐ IMMEDIATELY ☒ ON SPECIFIED FAILURE ☐ AGREEABLE TIME	STANDARDS: LABOR 8.0 Hours	
LOCATION CATEGORY:	☐ CUSTOMER INSTALLABLE ☒ ON-SITE ☐ SERVICE CENTER	SERVICE INVENTORY: ☐ RETURN ☒ SCRAP ☐ SEE TEXT	USED PARTS: ☐ RETURN ☒ SCRAP ☐ SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE		
AGILENT RESPONSIBLE UNTIL: EOS			
AUTHOR: JMS	ENTITY: 5340	ADDITIONAL INFORMATION:	

Solution / Action:

If a residual is noticed at 48 MHz, or if it is noticed that the CMOS version of microprocessor is installed in the RF Filter section, the following test should be performed:

Input:	1
Center Frequency:	48 MHz
Span:	50 kHz
Resolution BW:	300 Hz
Video BW:	300 Hz
Attenuation:	0 dB
Reference Level:	-87 dBm
Sweep Time:	2 seconds
Preamp:	ON

All RF Filter Section Inputs terminated with 50 Ohm loads.

Test Line Limit: -117 dBm

A residual response above the Test Line Limit should be fixed by replacing the A11 Microprocessor Assembly (85460-60005). Consult the 85420E / 85460A Service Guide for more information on replacing the A11 Microprocessor Assembly. The part number for this manual is 5962-5086.