

ENGINEERING SPECIFICATION		SECURITY NOTATION		SPEC NO. EB7516219		SEE PAGE INDEX FOR THIS SHEET REV LETTER																																																																	
				CAGE CODE 55939																																																																			
		REV LTR																																																																					
SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.																																																																							
REV LTR	TEST PROCEDURES AND DATA: TEST NO: 6																																																																						
	1.0 DESCRIPTION OF TEST: Spurious emission (Radiated)																																																																						
	2.0 SPECIFICATIONS: 47 CFR 87.139																																																																						
	3.0 EQUIPMENT REQUIRED:																																																																						
	<table><tr><td></td><td><u>TYPE</u></td><td><u>MANUFACTURER</u></td><td><u>MODEL</u></td><td><u>SER. NO.</u></td></tr><tr><td>A</td><td>Satellite Data Unit</td><td>Honeywell</td><td>SD700</td><td>00080004</td></tr><tr><td>B</td><td>Spectrum Analyzer</td><td>Hewlett Packard</td><td>8563E</td><td>3213A00104</td></tr><tr><td>C</td><td>Spectrum Analyzer</td><td>Hewlett Packard</td><td>85462A</td><td>3625A00357</td></tr><tr><td>D</td><td>Spectrum Analyzer</td><td>Hewlett Packard</td><td>8566B</td><td>2511AD1467</td></tr><tr><td>E</td><td>Pre Amplifier</td><td>Hewlett Packard</td><td>8449A</td><td>-</td></tr><tr><td>F</td><td>Terminal (PC)</td><td>Dell w/ Procom</td><td>-</td><td>-</td></tr><tr><td>G</td><td>50 Ohm RF Termination</td><td>Narda</td><td>377BNM</td><td>-</td></tr><tr><td>H</td><td>Biconical Antenna (25–300 MHz)</td><td>EMCO</td><td>3109-B</td><td>2336</td></tr><tr><td>I</td><td>Log Periodic Antenna (200–1000 MHz)</td><td>APREL</td><td>2001</td><td>001500</td></tr><tr><td>J</td><td>Horn Antenna (1-18 GHz)</td><td>EMCO</td><td>3115</td><td>9208-3925</td></tr><tr><td>K</td><td>Active Monopole</td><td>EMCO</td><td>3301-B</td><td>2635</td></tr><tr><td>L</td><td>Power Meter</td><td>Hewlett Packard</td><td>438A</td><td>55652</td></tr></table>							<u>TYPE</u>	<u>MANUFACTURER</u>	<u>MODEL</u>	<u>SER. NO.</u>	A	Satellite Data Unit	Honeywell	SD700	00080004	B	Spectrum Analyzer	Hewlett Packard	8563E	3213A00104	C	Spectrum Analyzer	Hewlett Packard	85462A	3625A00357	D	Spectrum Analyzer	Hewlett Packard	8566B	2511AD1467	E	Pre Amplifier	Hewlett Packard	8449A	-	F	Terminal (PC)	Dell w/ Procom	-	-	G	50 Ohm RF Termination	Narda	377BNM	-	H	Biconical Antenna (25–300 MHz)	EMCO	3109-B	2336	I	Log Periodic Antenna (200–1000 MHz)	APREL	2001	001500	J	Horn Antenna (1-18 GHz)	EMCO	3115	9208-3925	K	Active Monopole	EMCO	3301-B	2635	L	Power Meter	Hewlett Packard	438A	55652
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REV LTR	TEST PROCEDURES AND DATA: _____	TEST NO: 6
	4.0 BLOCK DIAGRAM OF TEST SETUP: F L A G H,I,J,K B,C,D,E 3 M	

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REV LTR	TEST PROCEDURES AND DATA: TEST NO: 6 5.0 PROCEDURE: A. The LRU, in an appropriate open field configuration, is placed on a turntable 1 meter above the ground. Connect the equipment as shown in the block diagram in section 4.0 of test no. 6. Initially, connect the power meter to the SDU transmitter output cable instead of the 50 ohm termination to verify the LRU is transmitting at the proper level. B. Using the terminal, set the SDU to transmit a CW carrier on Channel 1 at 1643.5 MHz and +12 dBm minimum. C. Disconnect the power meter and terminate the SDU transmitter output with the 50 ohm termination. D. Using the antennae in vertical and in horizontal polarization between 1 meter and 4 meter elevation above the ground plane and while rotating the platform 360°, measure and record the maximum value of the radiated energy between 30 MHz and 1000 MHz. NOTE: NOTE: The SD-700 Satellite Data Unit is a single box intended to be used with equipment which already have FCC authorization and ID numbers (GB8MCS-6000). Since the other components in the system have already been tested and certified, the SDU will be tested alone for the radiated spurious emissions test. The Radiated Spurious Emissions testing will be performed by M. Flom Associates, Inc.		
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REV
LTR

TEST PROCEDURES AND DATA:

TEST NO: 6

RADIATED TEST SETUP

NOTES:

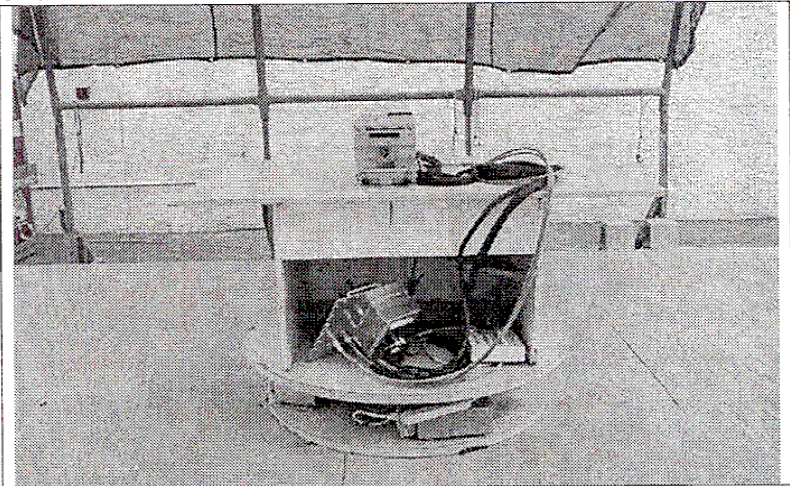
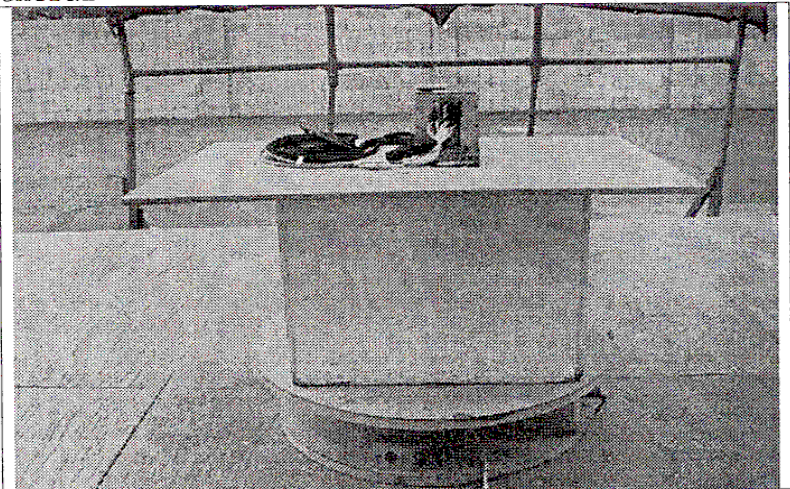
- (a) Search Antenna - Rotatable on boom
- (b) Non-metallic boom
- (c) Non-metallic mast
- (d) Adjustable horizontally
- (e) Equipment Under Test
- (f) Turntable
- (g) Boom adjustable in height.
- (h) External control cables routed horizontally at least one wavelength.
- (i) Rotatable
- (j) Cables routed through hollow turntable center
- (k) 30 cm or less
- (l) External power source
- (m) 10 cm diameter coil of excess cable
- (n) 25 cm (V), 1 m-7 m (V, H)
- (o) 25 cm from bottom end of 'V', 1m normally
- (p) Calibrated Cable at least 10m in length
- (q) Amplifier (optional)
- (r) Spectrum Analyzer

Asset	Description (as applicable)	s/n	Cycle	Last Cal
Per ANSI C63.4-1992/2009, 10.1.4				
TRANSDUCER				
i00088	EMCO 3109-B 25MHz-300MHz	2336	12 mo.	Sep-00
i00089	Apriel 2001 200MHz-1GHz	001500	12 mo.	Sep-00
i00103	EMCO 3115 1GHz-18GHz	9208-3925	12 mo.	Sep-00
i00065	EMCO 3301-B Active Monopole	2635	12 mo.	Sep-00
AMPLIFIER				
i00028	HP 8449A	2749A00121	12 mo.	Mar-00
SPECTRUM ANALYZER				
i00029	HP 8563E	3213A00104	12 mo.	Aug-00
i00033	HP 85462A	3625A00357	12 mo.	May-00
i00048	HP 8566B	2511AD1467	6 mo.	May-00

Figure 6-37. Test Setup and Equipment

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REV LTR	TEST PROCEDURES AND DATA:		TEST NO: 6
TEST SETUP: Radiated Emissions g00b0258: 2000-Nov-21 Tue 13:58:52 STATE: 0:General  TEST SETUP: Radiated Emissions g00b0259: 2000-Nov-21 Tue 13:58:52 STATE: 0:General  Figure 6-38. UUT on Turntable			

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REV LTR	TEST PROCEDURES AND DATA: TEST NO: 6 NAME OF TEST: Radiated Spurious Emissions g00b0262: 2000-Nov-21 Tue 09:19:00 STATE: 0:General <table border="1" style="width: 100%; border-collapse: collapse; font-family: monospace; font-size: 0.9em;"> <thead> <tr> <th style="text-align: left;">FREQUENCY EMISSION, MHz</th> <th style="text-align: left;">LEVEL, @ m dBuV</th> <th style="text-align: left;">C.F., dB</th> <th style="text-align: left;">µV/m @ m</th> <th style="text-align: left;">Margin, dB</th> </tr> </thead> <tbody> <tr><td>30.639000</td><td>14.99 3</td><td>4.31</td><td>9.23 10</td><td>-19.8</td></tr> <tr><td>35.791000</td><td>17.89 3</td><td>3.61</td><td>11.89 10</td><td>-17.6</td></tr> <tr><td>39.370000</td><td>18.13 3</td><td>3.17</td><td>11.61 10</td><td>-17.8</td></tr> <tr><td>42.990000</td><td>17.61 3</td><td>2.55</td><td>10.19 10</td><td>-18.9</td></tr> <tr><td>50.099000</td><td>18.34 3</td><td>1.38</td><td>9.68 10</td><td>-19.4</td></tr> <tr><td>52.536000</td><td>12.71 3</td><td>0.97</td><td>4.83 10</td><td>-25.4</td></tr> <tr><td>53.699000</td><td>20.66 3</td><td>0.77</td><td>11.79 10</td><td>-17.7</td></tr> <tr><td>56.561000</td><td>17.39 3</td><td>0.32</td><td>7.68 10</td><td>-21.4</td></tr> <tr><td>59.299000</td><td>13.25 3</td><td>-0.1</td><td>4.54 10</td><td>-26</td></tr> <tr><td>66.599000</td><td>12.69 3</td><td>-0.87</td><td>3.9 10</td><td>-27.3</td></tr> <tr><td>67.249000</td><td>23.11 3</td><td>-0.94</td><td>12.84 10</td><td>-16.9</td></tr> <tr><td>70.099000</td><td>14.13 3</td><td>-1.21</td><td>4.43 10</td><td>-26.2</td></tr> <tr><td>72.136000</td><td>23.75 3</td><td>-1.33</td><td>13.21 10</td><td>-16.7</td></tr> <tr><td>72.722000</td><td>18.78 3</td><td>-1.37</td><td>7.42 10</td><td>-21.7</td></tr> <tr><td>75.117000</td><td>15.01 3</td><td>-1.52</td><td>4.73 10</td><td>-25.6</td></tr> <tr><td>82.913000</td><td>12.98 3</td><td>-1.47</td><td>3.76 10</td><td>-27.6</td></tr> <tr><td>85.000000</td><td>6.44 3</td><td>-1.23</td><td>1.82 10</td><td>-33.9</td></tr> <tr><td>86.025000</td><td>10.25 3</td><td>-1.12</td><td>2.86 10</td><td>-30</td></tr> <tr><td>88.863000</td><td>9.68 3</td><td>-0.82</td><td>2.77 10</td><td>-34.6</td></tr> <tr><td>90.988000</td><td>16.81 3</td><td>-0.54</td><td>6.51 10</td><td>-27.2</td></tr> <tr><td>95.988000</td><td>18.38 3</td><td>0.22</td><td>8.51 10</td><td>-24.9</td></tr> <tr><td>100.988000</td><td>18.72 3</td><td>0.98</td><td>9.66 10</td><td>-23.8</td></tr> <tr><td>102.125000</td><td>21.79 3</td><td>1.17</td><td>14.06 10</td><td>-20.5</td></tr> <tr><td>105.000000</td><td>16.5 3</td><td>1.66</td><td>8.09 10</td><td>-25.3</td></tr> <tr><td>108.813000</td><td>12.62 3</td><td>2.28</td><td>5.56 10</td><td>-28.6</td></tr> <tr><td>110.225000</td><td>9.38 3</td><td>2.5</td><td>3.93 10</td><td>-31.6</td></tr> <tr><td>110.625000</td><td>17.22 3</td><td>2.53</td><td>9.72 10</td><td>-23.8</td></tr> <tr><td>112.164000</td><td>14.06 3</td><td>2.67</td><td>6.86 10</td><td>-26.8</td></tr> <tr><td>114.576000</td><td>16.92 3</td><td>2.87</td><td>9.76 10</td><td>-23.7</td></tr> <tr><td>117.976000</td><td>15.25 3</td><td>3.16</td><td>8.33 10</td><td>-25.1</td></tr> <tr><td>119.926000</td><td>12.42 3</td><td>3.33</td><td>6.13 10</td><td>-27.8</td></tr> <tr><td>121.139000</td><td>10.37 3</td><td>3.36</td><td>4.86 10</td><td>-29.8</td></tr> <tr><td>124.001000</td><td>5.68 3</td><td>3.47</td><td>2.87 10</td><td>-34.4</td></tr> <tr><td>125.364000</td><td>14.27 3</td><td>3.52</td><td>7.75 10</td><td>-25.7</td></tr> <tr><td>127.464000</td><td>12.53 3</td><td>3.59</td><td>6.4 10</td><td>-27.4</td></tr> <tr><td>132.464000</td><td>10.91 3</td><td>3.88</td><td>5.49 10</td><td>-28.7</td></tr> <tr><td>135.501000</td><td>10.87 3</td><td>4.12</td><td>5.62 10</td><td>-28.5</td></tr> <tr><td>137.764000</td><td>11.42 3</td><td>4.28</td><td>6.1 10</td><td>-27.8</td></tr> <tr><td>140.501000</td><td>10.16 3</td><td>4.46</td><td>5.38 10</td><td>-28.9</td></tr> <tr><td>142.776000</td><td>9.47 3</td><td>4.49</td><td>4.99 10</td><td>-29.5</td></tr> <tr><td>144.039000</td><td>17.78 3</td><td>4.51</td><td>13.02 10</td><td>-21.2</td></tr> <tr><td>147.526000</td><td>15.79 3</td><td>4.56</td><td>10.41 10</td><td>-23.2</td></tr> <tr><td>151.326000</td><td>14.22 3</td><td>4.58</td><td>8.71 10</td><td>-24.7</td></tr> <tr><td>155.339000</td><td>12.38 3</td><td>4.51</td><td>6.99 10</td><td>-26.6</td></tr> </tbody> </table>	FREQUENCY EMISSION, MHz	LEVEL, @ m dBuV	C.F., dB	µV/m @ m	Margin, dB	30.639000	14.99 3	4.31	9.23 10	-19.8	35.791000	17.89 3	3.61	11.89 10	-17.6	39.370000	18.13 3	3.17	11.61 10	-17.8	42.990000	17.61 3	2.55	10.19 10	-18.9	50.099000	18.34 3	1.38	9.68 10	-19.4	52.536000	12.71 3	0.97	4.83 10	-25.4	53.699000	20.66 3	0.77	11.79 10	-17.7	56.561000	17.39 3	0.32	7.68 10	-21.4	59.299000	13.25 3	-0.1	4.54 10	-26	66.599000	12.69 3	-0.87	3.9 10	-27.3	67.249000	23.11 3	-0.94	12.84 10	-16.9	70.099000	14.13 3	-1.21	4.43 10	-26.2	72.136000	23.75 3	-1.33	13.21 10	-16.7	72.722000	18.78 3	-1.37	7.42 10	-21.7	75.117000	15.01 3	-1.52	4.73 10	-25.6	82.913000	12.98 3	-1.47	3.76 10	-27.6	85.000000	6.44 3	-1.23	1.82 10	-33.9	86.025000	10.25 3	-1.12	2.86 10	-30	88.863000	9.68 3	-0.82	2.77 10	-34.6	90.988000	16.81 3	-0.54	6.51 10	-27.2	95.988000	18.38 3	0.22	8.51 10	-24.9	100.988000	18.72 3	0.98	9.66 10	-23.8	102.125000	21.79 3	1.17	14.06 10	-20.5	105.000000	16.5 3	1.66	8.09 10	-25.3	108.813000	12.62 3	2.28	5.56 10	-28.6	110.225000	9.38 3	2.5	3.93 10	-31.6	110.625000	17.22 3	2.53	9.72 10	-23.8	112.164000	14.06 3	2.67	6.86 10	-26.8	114.576000	16.92 3	2.87	9.76 10	-23.7	117.976000	15.25 3	3.16	8.33 10	-25.1	119.926000	12.42 3	3.33	6.13 10	-27.8	121.139000	10.37 3	3.36	4.86 10	-29.8	124.001000	5.68 3	3.47	2.87 10	-34.4	125.364000	14.27 3	3.52	7.75 10	-25.7	127.464000	12.53 3	3.59	6.4 10	-27.4	132.464000	10.91 3	3.88	5.49 10	-28.7	135.501000	10.87 3	4.12	5.62 10	-28.5	137.764000	11.42 3	4.28	6.1 10	-27.8	140.501000	10.16 3	4.46	5.38 10	-28.9	142.776000	9.47 3	4.49	4.99 10	-29.5	144.039000	17.78 3	4.51	13.02 10	-21.2	147.526000	15.79 3	4.56	10.41 10	-23.2	151.326000	14.22 3	4.58	8.71 10	-24.7	155.339000	12.38 3	4.51	6.99 10	-26.6
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114.576000	16.92 3	2.87	9.76 10	-23.7																																																																																																																																																																																																																														
117.976000	15.25 3	3.16	8.33 10	-25.1																																																																																																																																																																																																																														
119.926000	12.42 3	3.33	6.13 10	-27.8																																																																																																																																																																																																																														
121.139000	10.37 3	3.36	4.86 10	-29.8																																																																																																																																																																																																																														
124.001000	5.68 3	3.47	2.87 10	-34.4																																																																																																																																																																																																																														
125.364000	14.27 3	3.52	7.75 10	-25.7																																																																																																																																																																																																																														
127.464000	12.53 3	3.59	6.4 10	-27.4																																																																																																																																																																																																																														
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137.764000	11.42 3	4.28	6.1 10	-27.8																																																																																																																																																																																																																														
140.501000	10.16 3	4.46	5.38 10	-28.9																																																																																																																																																																																																																														
142.776000	9.47 3	4.49	4.99 10	-29.5																																																																																																																																																																																																																														
144.039000	17.78 3	4.51	13.02 10	-21.2																																																																																																																																																																																																																														
147.526000	15.79 3	4.56	10.41 10	-23.2																																																																																																																																																																																																																														
151.326000	14.22 3	4.58	8.71 10	-24.7																																																																																																																																																																																																																														
155.339000	12.38 3	4.51	6.99 10	-26.6																																																																																																																																																																																																																														

Honeywell	AW/CRITICAL NOTATION		
	SECURITY NOTATION	SUPPLEMENTS	79 PAGE

ENGINEERING SPECIFICATION	SECURITY NOTATION	SPEC NO. EB7516219	SEE PAGE INDEX FOR THIS SHEET REV LETTER																																																																																																																																																																																																																																																	
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REV LTR	TEST PROCEDURES AND DATA: TEST NO: 6 NAME OF TEST: Radiated Spurious Emissions (Continued) g00b0262: 2000-Nov-21 Tue 09:19:00 STATE: 0:General <table border="1"> <thead> <tr> <th>FREQUENCY EMISSION, MHz</th> <th>LEVEL, @ m dBuV</th> <th>C.F., dB</th> <th>μV/m @ m</th> <th>Margin, dB</th> </tr> </thead> <tbody> <tr><td>158.513000</td><td>10.94</td><td>3</td><td>4.45</td><td>5.88 10 -28.1</td></tr> <tr><td>160.000000</td><td>13.45</td><td>3</td><td>4.43</td><td>7.83 10 -25.6</td></tr> <tr><td>163.513000</td><td>8.57</td><td>3</td><td>4.36</td><td>4.43 10 -30.6</td></tr> <tr><td>166.000000</td><td>10.05</td><td>3</td><td>4.32</td><td>5.23 10 -29.1</td></tr> <tr><td>171.375000</td><td>19.67</td><td>3</td><td>4.26</td><td>15.72 10 -19.6</td></tr> <tr><td>175.025000</td><td>15.9</td><td>3</td><td>4.3</td><td>10.23 10 -23.3</td></tr> <tr><td>177.138000</td><td>10.71</td><td>3</td><td>4.34</td><td>5.66 10 -28.5</td></tr> <tr><td>180.000000</td><td>9.19</td><td>3</td><td>4.38</td><td>4.77 10 -29.9</td></tr> <tr><td>183.988000</td><td>10.02</td><td>3</td><td>4.82</td><td>5.52 10 -28.7</td></tr> <tr><td>188.513000</td><td>7.12</td><td>3</td><td>5.29</td><td>4.17 10 -31.1</td></tr> <tr><td>191.000000</td><td>5.12</td><td>3</td><td>5.55</td><td>3.42 10 -32.8</td></tr> <tr><td>200.000000</td><td>12.84</td><td>3</td><td>6.5</td><td>9.27 10 -24.2</td></tr> <tr><td>201.000000</td><td>7.81</td><td>3</td><td>6.59</td><td>5.25 10 -29.1</td></tr> <tr><td>210.500000</td><td>8.16</td><td>3</td><td>7.46</td><td>6.04 10 -27.9</td></tr> <tr><td>215.000000</td><td>8.98</td><td>3</td><td>7.87</td><td>6.96 10 -26.7</td></tr> <tr><td>216.063000</td><td>17.28</td><td>3</td><td>7.96</td><td>18.28 10 -21.2</td></tr> <tr><td>220.000000</td><td>12.45</td><td>3</td><td>8.31</td><td>10.91 10 -25.6</td></tr> <tr><td>225.000000</td><td>15.64</td><td>3</td><td>8.66</td><td>16.41 10 -22.1</td></tr> <tr><td>230.000000</td><td>9.26</td><td>3</td><td>9.01</td><td>8.19 10 -28.1</td></tr> <tr><td>235.000000</td><td>8.93</td><td>3</td><td>9.16</td><td>8.03 10 -28.3</td></tr> <tr><td>240.000000</td><td>14.88</td><td>3</td><td>9.31</td><td>16.2 10 -22.2</td></tr> <tr><td>245.000000</td><td>12.37</td><td>3</td><td>9.66</td><td>12.63 10 -24.4</td></tr> <tr><td>250.000000</td><td>27.22</td><td>3</td><td>10</td><td>72.61 10 -9.2</td></tr> <tr><td>255.000000</td><td>8.24</td><td>3</td><td>10.05</td><td>8.21 10 -28.1</td></tr> <tr><td>260.000000</td><td>9.24</td><td>3</td><td>10.11</td><td>9.28 10 -27.1</td></tr> <tr><td>265.000000</td><td>9.68</td><td>3</td><td>10.36</td><td>10.05 10 -26.4</td></tr> <tr><td>270.000000</td><td>8.84</td><td>3</td><td>10.61</td><td>9.39 10 -27</td></tr> <tr><td>274.997000</td><td>17.87</td><td>3</td><td>10.81</td><td>27.16 10 -17.7</td></tr> <tr><td>280.013000</td><td>9.88</td><td>3</td><td>11.01</td><td>11.08 10 -25.5</td></tr> <tr><td>285.013000</td><td>10.09</td><td>3</td><td>10.96</td><td>11.28 10 -25.4</td></tr> <tr><td>290.013000</td><td>10.95</td><td>3</td><td>10.92</td><td>12.4 10 -24.5</td></tr> <tr><td>295.013000</td><td>8.56</td><td>3</td><td>15.6</td><td>16.14 10 -22.2</td></tr> <tr><td>300.000000</td><td>19.03</td><td>3</td><td>20.2</td><td>91.52 10 -7.2</td></tr> <tr><td>305.000000</td><td>9.03</td><td>3</td><td>7.61</td><td>6.79 10 -29.8</td></tr> <tr><td>310.000000</td><td>8.31</td><td>3</td><td>7.93</td><td>6.49 10 -30.2</td></tr> <tr><td>315.000000</td><td>10.1</td><td>3</td><td>8.23</td><td>8.25 10 -28.1</td></tr> <tr><td>320.000000</td><td>10.31</td><td>3</td><td>8.52</td><td>8.74 10 -27.6</td></tr> <tr><td>325.000000</td><td>16.08</td><td>3</td><td>8.82</td><td>17.58 10 -21.5</td></tr> <tr><td>330.000000</td><td>12.11</td><td>3</td><td>9.11</td><td>11.51 10 -25.2</td></tr> <tr><td>335.000000</td><td>9.95</td><td>3</td><td>9.39</td><td>9.27 10 -27.1</td></tr> <tr><td>340.000000</td><td>8.63</td><td>3</td><td>9.68</td><td>8.23 10 -28.1</td></tr> <tr><td>345.000000</td><td>13.79</td><td>3</td><td>9.94</td><td>15.36 10 -22.7</td></tr> <tr><td>350.000000</td><td>17.34</td><td>3</td><td>10.22</td><td>23.88 10 -18.8</td></tr> <tr><td>355.000000</td><td>12.33</td><td>3</td><td>10.5</td><td>13.85 10 -23.6</td></tr> <tr><td>360.000000</td><td>9.29</td><td>3</td><td>10.79</td><td>10.09 10 -26.3</td></tr> <tr><td>365.000000</td><td>11.26</td><td>3</td><td>11.06</td><td>13.06 10 -24.1</td></tr> <tr><td>370.000000</td><td>10.11</td><td>3</td><td>11.34</td><td>11.82 10 -25</td></tr> </tbody> </table>				FREQUENCY EMISSION, MHz	LEVEL, @ m dBuV	C.F., dB	μV/m @ m	Margin, dB	158.513000	10.94	3	4.45	5.88 10 -28.1	160.000000	13.45	3	4.43	7.83 10 -25.6	163.513000	8.57	3	4.36	4.43 10 -30.6	166.000000	10.05	3	4.32	5.23 10 -29.1	171.375000	19.67	3	4.26	15.72 10 -19.6	175.025000	15.9	3	4.3	10.23 10 -23.3	177.138000	10.71	3	4.34	5.66 10 -28.5	180.000000	9.19	3	4.38	4.77 10 -29.9	183.988000	10.02	3	4.82	5.52 10 -28.7	188.513000	7.12	3	5.29	4.17 10 -31.1	191.000000	5.12	3	5.55	3.42 10 -32.8	200.000000	12.84	3	6.5	9.27 10 -24.2	201.000000	7.81	3	6.59	5.25 10 -29.1	210.500000	8.16	3	7.46	6.04 10 -27.9	215.000000	8.98	3	7.87	6.96 10 -26.7	216.063000	17.28	3	7.96	18.28 10 -21.2	220.000000	12.45	3	8.31	10.91 10 -25.6	225.000000	15.64	3	8.66	16.41 10 -22.1	230.000000	9.26	3	9.01	8.19 10 -28.1	235.000000	8.93	3	9.16	8.03 10 -28.3	240.000000	14.88	3	9.31	16.2 10 -22.2	245.000000	12.37	3	9.66	12.63 10 -24.4	250.000000	27.22	3	10	72.61 10 -9.2	255.000000	8.24	3	10.05	8.21 10 -28.1	260.000000	9.24	3	10.11	9.28 10 -27.1	265.000000	9.68	3	10.36	10.05 10 -26.4	270.000000	8.84	3	10.61	9.39 10 -27	274.997000	17.87	3	10.81	27.16 10 -17.7	280.013000	9.88	3	11.01	11.08 10 -25.5	285.013000	10.09	3	10.96	11.28 10 -25.4	290.013000	10.95	3	10.92	12.4 10 -24.5	295.013000	8.56	3	15.6	16.14 10 -22.2	300.000000	19.03	3	20.2	91.52 10 -7.2	305.000000	9.03	3	7.61	6.79 10 -29.8	310.000000	8.31	3	7.93	6.49 10 -30.2	315.000000	10.1	3	8.23	8.25 10 -28.1	320.000000	10.31	3	8.52	8.74 10 -27.6	325.000000	16.08	3	8.82	17.58 10 -21.5	330.000000	12.11	3	9.11	11.51 10 -25.2	335.000000	9.95	3	9.39	9.27 10 -27.1	340.000000	8.63	3	9.68	8.23 10 -28.1	345.000000	13.79	3	9.94	15.36 10 -22.7	350.000000	17.34	3	10.22	23.88 10 -18.8	355.000000	12.33	3	10.5	13.85 10 -23.6	360.000000	9.29	3	10.79	10.09 10 -26.3	365.000000	11.26	3	11.06	13.06 10 -24.1	370.000000	10.11	3	11.34	11.82 10 -25
FREQUENCY EMISSION, MHz	LEVEL, @ m dBuV	C.F., dB	μV/m @ m	Margin, dB																																																																																																																																																																																																																																																
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ENGINEERING SPECIFICATION	SECURITY NOTATION		SPEC NO. EB7516219	SEE PAGE INDEX FOR THIS SHEET REV LETTER REV LTR	
			CAGE CODE 55939		
	SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.				

REV LTR	TEST PROCEDURES AND DATA: TEST NO: 6 NAME OF TEST: Radiated Spurious Emissions (Continued) g00b0262: 2000-Nov-21 Tue 09:19:00 STATE: 0:General <table border="1" style="width: 100%; border-collapse: collapse; font-family: monospace;"> <thead> <tr> <th style="text-align: left;">EMISSION, MHz</th> <th style="text-align: left;">FREQUENCY</th> <th style="text-align: left;">LEVEL, @ m</th> <th style="text-align: left;">C.F., dB</th> <th style="text-align: left;">μV/m @ m</th> <th style="text-align: left;">Margin, dB</th> </tr> <tr> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>375.000000</td><td>15.64</td><td>3</td><td>11.61</td><td>23.04 10</td><td>-19.2</td></tr> <tr><td>380.000000</td><td>10.19</td><td>3</td><td>11.87</td><td>12.68 10</td><td>-24.3</td></tr> <tr><td>385.000000</td><td>8.89</td><td>3</td><td>12.14</td><td>11.26 10</td><td>-25.4</td></tr> <tr><td>390.000000</td><td>9.63</td><td>3</td><td>12.4</td><td>12.63 10</td><td>-24.4</td></tr> <tr><td>395.000000</td><td>9.6</td><td>3</td><td>12.64</td><td>12.94 10</td><td>-24.2</td></tr> <tr><td>400.000000</td><td>10.26</td><td>3</td><td>12.9</td><td>14.39 10</td><td>-23.2</td></tr> <tr><td>405.000000</td><td>8.64</td><td>3</td><td>12.89</td><td>11.93 10</td><td>-24.9</td></tr> <tr><td>410.000000</td><td>8.07</td><td>3</td><td>12.87</td><td>11.14 10</td><td>-25.5</td></tr> <tr><td>415.000000</td><td>9.18</td><td>3</td><td>12.86</td><td>12.65 10</td><td>-24.4</td></tr> <tr><td>420.000000</td><td>10.07</td><td>3</td><td>12.85</td><td>14 10</td><td>-23.5</td></tr> <tr><td>425.000000</td><td>8.75</td><td>3</td><td>12.83</td><td>11.99 10</td><td>-24.8</td></tr> <tr><td>430.000000</td><td>9.74</td><td>3</td><td>12.82</td><td>13.43 10</td><td>-23.8</td></tr> <tr><td>435.000000</td><td>9.78</td><td>3</td><td>12.81</td><td>13.47 10</td><td>-23.8</td></tr> <tr><td>440.000000</td><td>8.66</td><td>3</td><td>12.8</td><td>11.83 10</td><td>-24.9</td></tr> <tr><td>445.000000</td><td>7.96</td><td>3</td><td>12.79</td><td>10.9 10</td><td>-25.7</td></tr> <tr><td>450.000000</td><td>10.95</td><td>3</td><td>12.78</td><td>15.36 10</td><td>-22.7</td></tr> <tr><td>455.000000</td><td>7.74</td><td>3</td><td>12.78</td><td>10.62 10</td><td>-25.9</td></tr> <tr><td>460.000000</td><td>8.97</td><td>3</td><td>12.78</td><td>12.23 10</td><td>-24.7</td></tr> <tr><td>460.000000</td><td>14.43</td><td>3</td><td>12.78</td><td>22.94 10</td><td>-19.2</td></tr> <tr><td>465.000000</td><td>13.99</td><td>3</td><td>12.78</td><td>21.8 10</td><td>-19.6</td></tr> <tr><td>470.000000</td><td>13.39</td><td>3</td><td>12.79</td><td>20.37 10</td><td>-20.2</td></tr> <tr><td>475.000000</td><td>13.37</td><td>3</td><td>12.79</td><td>20.32 10</td><td>-20.2</td></tr> <tr><td>480.000000</td><td>12.85</td><td>3</td><td>12.8</td><td>19.16 10</td><td>-20.8</td></tr> <tr><td>485.000000</td><td>13.69</td><td>3</td><td>12.79</td><td>21.09 10</td><td>-19.9</td></tr> <tr><td>495.000000</td><td>13.3</td><td>3</td><td>12.8</td><td>20.18 10</td><td>-20.3</td></tr> <tr><td>500.000000</td><td>15.53</td><td>3</td><td>12.8</td><td>26.09 10</td><td>-18.1</td></tr> <tr><td>505.000000</td><td>14.34</td><td>3</td><td>13</td><td>23.28 10</td><td>-19.1</td></tr> <tr><td>510.000000</td><td>13.81</td><td>3</td><td>13.21</td><td>22.44 10</td><td>-19.4</td></tr> <tr><td>520.000000</td><td>14.46</td><td>3</td><td>13.59</td><td>25.26 10</td><td>-18.4</td></tr> <tr><td>525.000000</td><td>13.17</td><td>3</td><td>13.79</td><td>22.28 10</td><td>-19.4</td></tr> <tr><td>530.000000</td><td>12.64</td><td>3</td><td>13.99</td><td>21.45 10</td><td>-19.8</td></tr> <tr><td>535.000000</td><td>14.88</td><td>3</td><td>14.18</td><td>28.38 10</td><td>-17.3</td></tr> <tr><td>540.000000</td><td>12.73</td><td>3</td><td>14.36</td><td>22.62 10</td><td>-19.3</td></tr> <tr><td>550.000000</td><td>14.75</td><td>3</td><td>14.74</td><td>29.82 10</td><td>-16.9</td></tr> <tr><td>554.713000</td><td>11.86</td><td>3</td><td>14.91</td><td>21.8 10</td><td>-19.6</td></tr> <tr><td>560.000000</td><td>15.94</td><td>3</td><td>15.1</td><td>35.65 10</td><td>-15.4</td></tr> <tr><td>565.000000</td><td>12.71</td><td>3</td><td>15.28</td><td>25.09 10</td><td>-18.4</td></tr> <tr><td>570.000000</td><td>12.25</td><td>3</td><td>15.46</td><td>24.29 10</td><td>-18.7</td></tr> <tr><td>580.000000</td><td>12.48</td><td>3</td><td>15.81</td><td>25.97 10</td><td>-18.1</td></tr> <tr><td>590.575000</td><td>13.69</td><td>3</td><td>16.18</td><td>31.15 10</td><td>-16.5</td></tr> <tr><td>595.000000</td><td>13.05</td><td>3</td><td>16.33</td><td>29.44 10</td><td>-17</td></tr> <tr><td>600.000000</td><td>12.36</td><td>3</td><td>16.5</td><td>27.73 10</td><td>-17.5</td></tr> <tr><td>610.000000</td><td>12.25</td><td>3</td><td>16.63</td><td>27.8 10</td><td>-17.5</td></tr> <tr><td>620.000000</td><td>12.65</td><td>3</td><td>16.76</td><td>29.55 10</td><td>-17</td></tr> <tr><td>630.000000</td><td>12.37</td><td>3</td><td>16.88</td><td>29.01 10</td><td>-17.2</td></tr> <tr><td>640.000000</td><td>12.96</td><td>3</td><td>17</td><td>31.48 10</td><td>-16.4</td></tr> <tr><td>650.000000</td><td>12.1</td><td>3</td><td>17.12</td><td>28.91 10</td><td>-17.2</td></tr> </tbody> </table>	EMISSION, MHz	FREQUENCY	LEVEL, @ m	C.F., dB	μV/m @ m	Margin, dB							375.000000	15.64	3	11.61	23.04 10	-19.2	380.000000	10.19	3	11.87	12.68 10	-24.3	385.000000	8.89	3	12.14	11.26 10	-25.4	390.000000	9.63	3	12.4	12.63 10	-24.4	395.000000	9.6	3	12.64	12.94 10	-24.2	400.000000	10.26	3	12.9	14.39 10	-23.2	405.000000	8.64	3	12.89	11.93 10	-24.9	410.000000	8.07	3	12.87	11.14 10	-25.5	415.000000	9.18	3	12.86	12.65 10	-24.4	420.000000	10.07	3	12.85	14 10	-23.5	425.000000	8.75	3	12.83	11.99 10	-24.8	430.000000	9.74	3	12.82	13.43 10	-23.8	435.000000	9.78	3	12.81	13.47 10	-23.8	440.000000	8.66	3	12.8	11.83 10	-24.9	445.000000	7.96	3	12.79	10.9 10	-25.7	450.000000	10.95	3	12.78	15.36 10	-22.7	455.000000	7.74	3	12.78	10.62 10	-25.9	460.000000	8.97	3	12.78	12.23 10	-24.7	460.000000	14.43	3	12.78	22.94 10	-19.2	465.000000	13.99	3	12.78	21.8 10	-19.6	470.000000	13.39	3	12.79	20.37 10	-20.2	475.000000	13.37	3	12.79	20.32 10	-20.2	480.000000	12.85	3	12.8	19.16 10	-20.8	485.000000	13.69	3	12.79	21.09 10	-19.9	495.000000	13.3	3	12.8	20.18 10	-20.3	500.000000	15.53	3	12.8	26.09 10	-18.1	505.000000	14.34	3	13	23.28 10	-19.1	510.000000	13.81	3	13.21	22.44 10	-19.4	520.000000	14.46	3	13.59	25.26 10	-18.4	525.000000	13.17	3	13.79	22.28 10	-19.4	530.000000	12.64	3	13.99	21.45 10	-19.8	535.000000	14.88	3	14.18	28.38 10	-17.3	540.000000	12.73	3	14.36	22.62 10	-19.3	550.000000	14.75	3	14.74	29.82 10	-16.9	554.713000	11.86	3	14.91	21.8 10	-19.6	560.000000	15.94	3	15.1	35.65 10	-15.4	565.000000	12.71	3	15.28	25.09 10	-18.4	570.000000	12.25	3	15.46	24.29 10	-18.7	580.000000	12.48	3	15.81	25.97 10	-18.1	590.575000	13.69	3	16.18	31.15 10	-16.5	595.000000	13.05	3	16.33	29.44 10	-17	600.000000	12.36	3	16.5	27.73 10	-17.5	610.000000	12.25	3	16.63	27.8 10	-17.5	620.000000	12.65	3	16.76	29.55 10	-17	630.000000	12.37	3	16.88	29.01 10	-17.2	640.000000	12.96	3	17	31.48 10	-16.4	650.000000	12.1	3	17.12	28.91 10	-17.2
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ENGINEERING SPECIFICATION	SECURITY NOTATION	SPEC NO.	EB7516219	SEE PAGE INDEX FOR THIS SHEET REV LETTER
		CAGE CODE	55939	REV LTR
	SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.			

REV LTR	TEST PROCEDURES AND DATA: TEST NO: 6					
	NAME OF TEST: Radiated Spurious Emissions (Continued) g00b0262: 2000-Nov-21 Tue 09:19:00 STATE: 0:General					
	FREQUENCY EMISSION, MHz	LEVEL, @ m dBuV	C.F., dB	µV/m @ m	Margin, dB	
	660.000000	12.79 3	17.24	31.73 10	-16.4	
	670.000000	13.47 3	17.36	34.79 10	-15.6	
	680.313000	11.84 3	17.48	29.24 10	-17.1	
	690.000000	12.99 3	17.59	33.81 10	-15.8	
	700.000000	13.44 3	17.7	36.06 10	-15.3	
	710.000000	13.26 3	17.83	35.85 10	-15.3	
	720.000000	16.32 3	17.98	51.88 10	-12.1	
	730.000000	13.6 3	18.11	38.5 10	-14.7	
	740.000000	13.54 3	18.24	38.82 10	-14.6	
	750.000000	14.34 3	18.37	43.2 10	-13.7	
	760.000000	13.39 3	18.5	39.31 10	-14.5	
	770.000000	12.12 3	18.63	34.47 10	-15.7	
	780.000000	14.62 3	18.76	46.67 10	-13	
	790.000000	13.77 3	18.87	42.85 10	-13.8	
	800.000000	13.77 3	19	43.5 10	-13.6	
	810.000000	12.99 3	19.03	39.9 10	-14.4	
	820.000000	14.61 3	19.06	48.25 10	-12.7	
	830.000000	13.66 3	19.09	43.4 10	-13.7	
	840.000000	13.59 3	19.12	43.2 10	-13.7	
	850.000000	12.83 3	19.15	39.72 10	-14.4	
	870.000000	14.13 3	19.2	46.4 10	-13.1	
	879.900000	17.14 3	19.23	65.84 10	-10	
	889.900000	16.92 3	19.26	64.42 10	-10.2	
	899.900000	14.41 3	19.28	48.36 10	-12.7	
	909.900000	13.45 3	20.24	48.36 10	-12.7	
	920.000000	12.98 3	21.19	51.11 10	-12.2	
	930.350000	14.3 3	22.15	66.45 10	-10	
	940.000000	15.87 3	23.06	88.41 10	-7.5	
	950.000000	15.04 3	23.98	89.33 10	-7.4	
	960.000000	13.15 3	24.88	79.71 10	-8.4	
	970.000000	13.15 3	25.78	88.41 10	-10.6	
	980.000000	12.96 3	26.67	95.83 10	-9.9	
	990.000000	13.39 3	27.55	111.43 10	-8.6	
	1000.000000	14.18 3	28.4	134.59 10	-6.9	

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	SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.		

REV LTR	TEST PROCEDURES AND DATA: TEST NO: <u>7</u> 1.0 DESCRIPTION OF TEST: <u>Intermodulation</u> 2.0 SPECIFICATIONS: <u>47 CFR 87.139</u> 3.0 EQUIPMENT REQUIRED: <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="width: 5%;"></th> <th style="width: 30%;"><u>TYPE</u></th> <th style="width: 25%;"><u>MANUFACTURER</u></th> <th style="width: 20%;"><u>MODEL</u></th> <th style="width: 20%;"><u>SER. NO.</u></th> </tr> </thead> <tbody> <tr><td>A</td><td>High Power Amplifier</td><td>Honeywell</td><td>HP700</td><td>99090157</td></tr> <tr><td>B</td><td>Satellite Data Unit</td><td>Honeywell</td><td>HP600</td><td>00061939</td></tr> <tr><td>C</td><td>20 dB Attenuator</td><td>Narda</td><td>SD700</td><td>00070003</td></tr> <tr><td>D</td><td>Spectrum Analyzer</td><td>Narda</td><td>766-20</td><td>-</td></tr> <tr><td>E</td><td>Power Meter</td><td>Hewlett Packard</td><td>8563E</td><td>05409</td></tr> <tr><td>F</td><td>Power Meter</td><td>Hewlett Packard</td><td>438A</td><td>55652</td></tr> <tr><td>G</td><td>Directional Coupler</td><td>Narda</td><td>3002-20</td><td>02845-</td></tr> <tr><td>H</td><td>Terminal (PC)</td><td>Dell w/ Procom</td><td>-</td><td>-</td></tr> <tr><td>I</td><td>10 dB Attenuator</td><td>Narda</td><td>765-10</td><td>-</td></tr> <tr><td>J</td><td>30 dB Attenuator</td><td>Narda.</td><td>766-30</td><td>-</td></tr> <tr><td>K</td><td>Diplexer/LNA</td><td>Phase Atlantic</td><td>WGE-0090-00</td><td>COM9800396</td></tr> <tr><td></td><td>Plotter</td><td>Hewlett Packard</td><td>7475A</td><td>21242</td></tr> </tbody> </table>		<u>TYPE</u>	<u>MANUFACTURER</u>	<u>MODEL</u>	<u>SER. NO.</u>	A	High Power Amplifier	Honeywell	HP700	99090157	B	Satellite Data Unit	Honeywell	HP600	00061939	C	20 dB Attenuator	Narda	SD700	00070003	D	Spectrum Analyzer	Narda	766-20	-	E	Power Meter	Hewlett Packard	8563E	05409	F	Power Meter	Hewlett Packard	438A	55652	G	Directional Coupler	Narda	3002-20	02845-	H	Terminal (PC)	Dell w/ Procom	-	-	I	10 dB Attenuator	Narda	765-10	-	J	30 dB Attenuator	Narda.	766-30	-	K	Diplexer/LNA	Phase Atlantic	WGE-0090-00	COM9800396		Plotter	Hewlett Packard	7475A	21242
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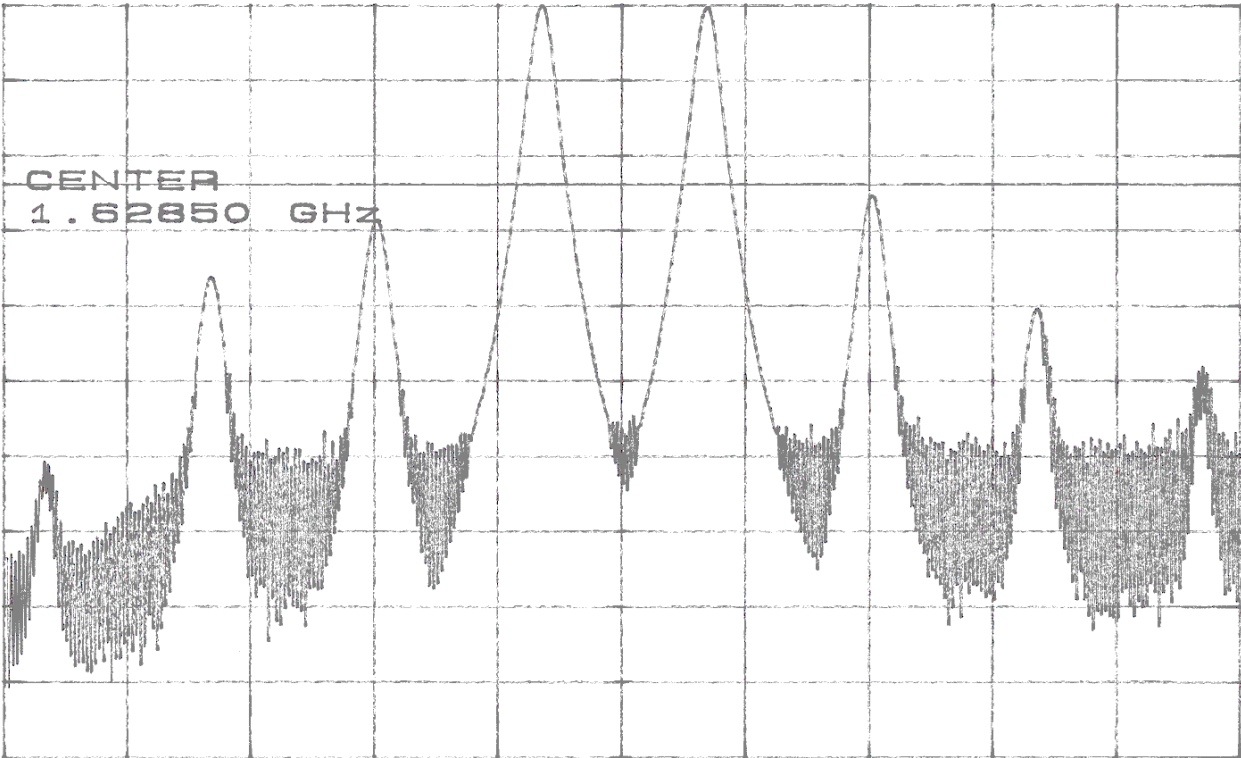
REV LTR	TEST PROCEDURES AND DATA: _____ TEST NO: 7
	4.0 BLOCK DIAGRAM OF TEST SETUP: <pre> graph LR G --- B B --- C C --- A A --- J J --- H H --- F F --- I F --- E I --- D D --- K </pre>

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REV LTR	TEST PROCEDURES AND DATA: TEST NO: 7 5.0 PROCEDURE: A. Connect the equipment as shown in the block diagram in Section 4.0 of test number 7. B. Using the terminal, set the SDU back-off attenuator to 3 dB for channel 1 and for channel 2. C. Using the terminal, set the SDU to transmit a CW carrier on channel 1 at 1626.5 MHz, and on channel 2 at 1630.5 MHz. D. For the 20W HPA, using the terminal, adjust the HPA back-off attenuator to obtain a total power (both carriers) of 11.2 dBm on the power meter. This level equals 20 W at the HPA RF antenna port. Adjust the SDU back-off as required to set the channel 1 and 2 carrier levels within 0.5 dB of each other as measured on the spectrum analyzer while maintaining the 20W total power on the power meter. E. For the 40W HPA, using the terminal, adjust the HPA back-off attenuator to obtain a total power (both carriers) of 14.2 dBm on the power meter. This level equals 40 W at the HPA RF antenna port. Adjust the SDU back-off as required to set the channel 1 and 2 carrier levels within 0.5 dB of each other as measured on the spectrum analyzer while maintaining the 40W total power on the power meter. F. Repeat steps 2 through 5 for channel 1 = 1643.5 MHz and channel 2 = 1647.5 MHz. G. Repeat steps 2 through 5 for channel 1 = 1656.5 MHz and channel 2 = 1660.5 MHz. 6.0 DATA: The data are presented on the following pages of this test: The display line on the spectrum analyzer plots indicates the acceptance level. The recorded data shows the level of the strongest intermodulation product.		
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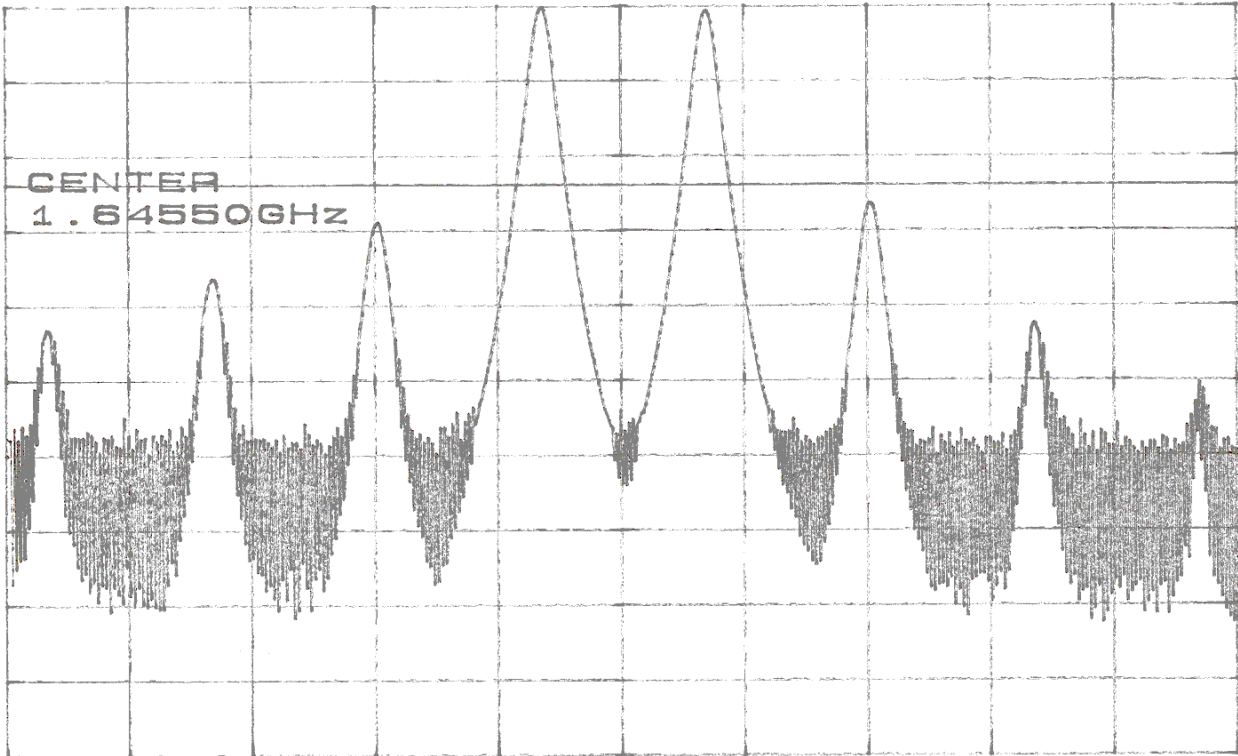
ENGINEERING SPECIFICATION	SECURITY NOTATION	SPEC NO. EB7516219	SEE PAGE INDEX FOR THIS SHEET REV LETTER REV LTR																								
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	SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.																										
REV LTR	TEST PROCEDURES AND DATA: TEST NO: 7 <table><tr><td colspan="2">Intermod</td><td rowspan="3">Conditions: 20W HPA</td></tr><tr><td>Date</td><td>10-4-00</td></tr><tr><td>Tester</td><td>Bailey</td></tr></table> CW Signals, 10W/tone <table><tr><th>Ch1 (MHz)</th><th>Ch2 (MHz)</th><th>IMD (dBc)</th><th>Limit (dBc)</th></tr><tr><td>1626.5</td><td>1630.5</td><td>-25.3</td><td>-24</td></tr><tr><td>1643.5</td><td>1647.5</td><td>-25.6</td><td>-24</td></tr><tr><td>1656.5</td><td>1660.5</td><td>-26.0</td><td>-24</td></tr></table>				Intermod		Conditions: 20W HPA	Date	10-4-00	Tester	Bailey	Ch1 (MHz)	Ch2 (MHz)	IMD (dBc)	Limit (dBc)	1626.5	1630.5	-25.3	-24	1643.5	1647.5	-25.6	-24	1656.5	1660.5	-26.0	-24
Intermod					Conditions: 20W HPA																						
Date	10-4-00																										
Tester	Bailey																										
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REV LTR	TEST PROCEDURES AND DATA: TEST NO: 7 ATTEN 10dB RL -2.2dBm 10dB/  CENTER 1.62850GHz SPAN 30.00MHz RBW 300kHz VBW 300kHz SWP 50.0ms Figure 6-39. 20W HPA, Low End of Band
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REV LTR	TEST PROCEDURES AND DATA:	TEST NO: 7
ATTEN 10dB RL -2.2dBm 10dB/ CENTER 1.64550GHz  CENTER 1.64550GHz SPAN 30.00MHz RBW 300kHz VBW 300kHz SWP 50.0ms		
Figure 6-40. 20W HPA, Midband		

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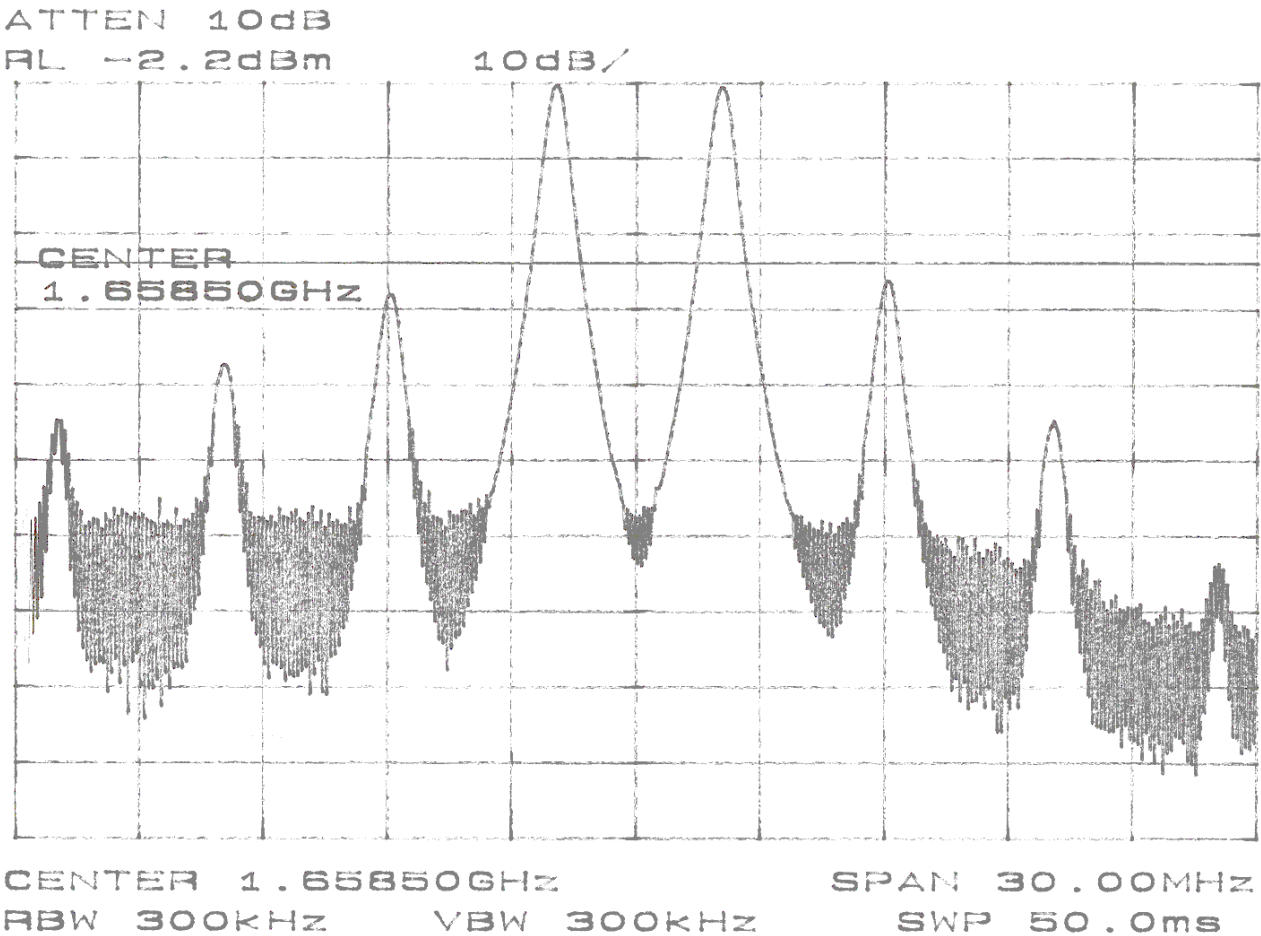


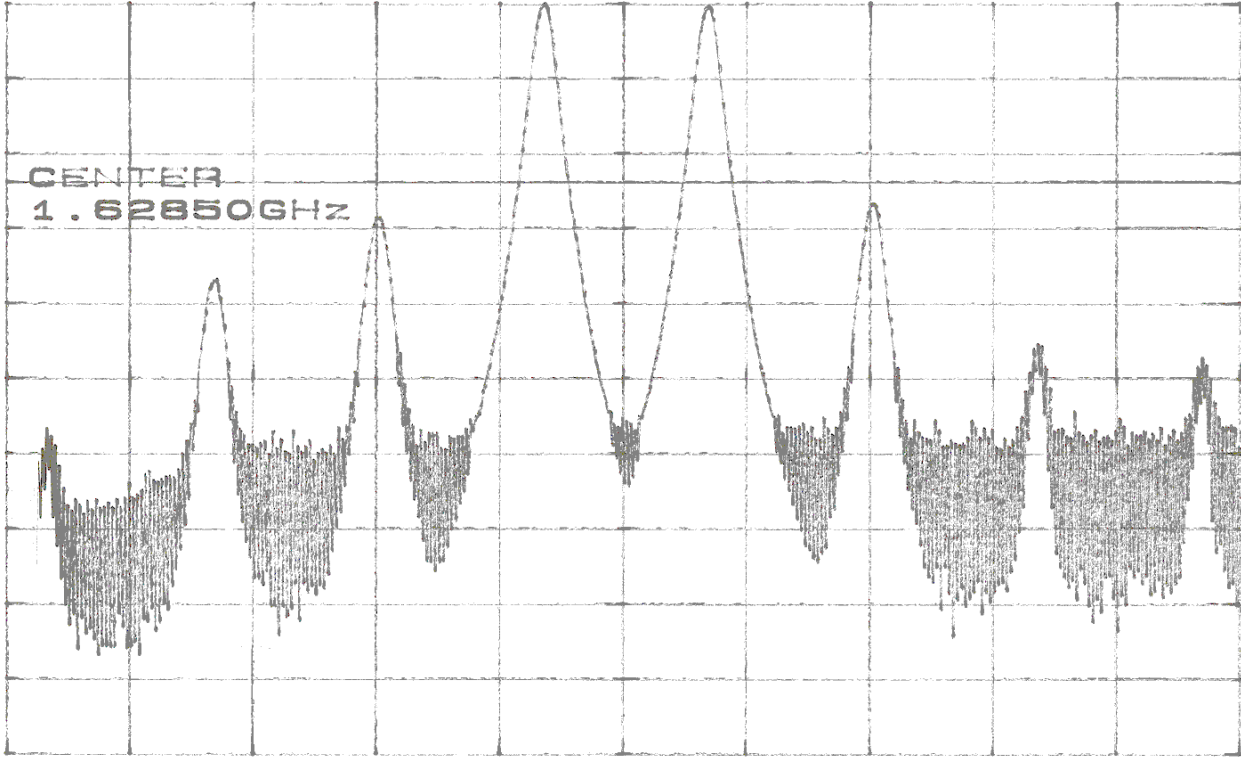
Figure 6-41. 20W HPA, High End of Band

TEST PERFORMED BY: Pete Bailey DATE: 10/2/00

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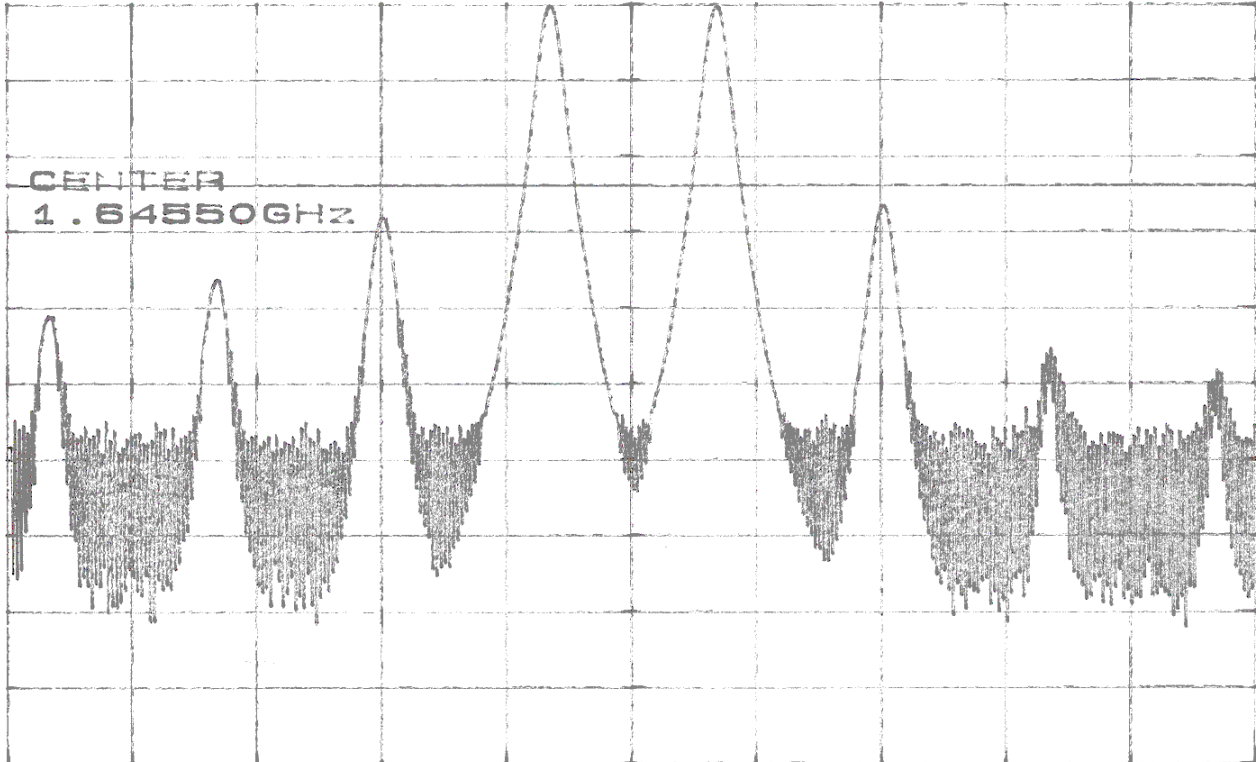
ENGINEERING SPECIFICATION	SECURITY NOTATION	SPEC NO. EB7516219	SEE PAGE INDEX FOR THIS SHEET REV LETTER																							
		CAGE CODE 55939																								
	REV LTR																									
SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.																										
REV LTR	TEST PROCEDURES AND DATA:TEST NO: 7 <table><tr><td colspan="2">Intermod s</td><td rowspan="3">Conditions: 40W HPA CW Signals, 20W/tone</td></tr><tr><td>Date</td><td>10-4-00</td></tr><tr><td>Tester</td><td>Bailey</td></tr></table><table><tr><td>Ch1 (MHz)</td><td>Ch2 (MHz)</td><td>IMD (dBc)</td><td>Limit (dBc)</td></tr><tr><td>1626.5</td><td>1630.5</td><td>-26.5</td><td>-24</td></tr><tr><td>1643.5</td><td>1647.5</td><td>-26.3</td><td>-24</td></tr><tr><td>1656.5</td><td>1660.5</td><td>-26.2</td><td>-24</td></tr></table>			Intermod s		Conditions: 40W HPA CW Signals, 20W/tone	Date	10-4-00	Tester	Bailey	Ch1 (MHz)	Ch2 (MHz)	IMD (dBc)	Limit (dBc)	1626.5	1630.5	-26.5	-24	1643.5	1647.5	-26.3	-24	1656.5	1660.5	-26.2	-24
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1643.5	1647.5	-26.3	-24																							
1656.5	1660.5	-26.2	-24																							
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REV LTR	TEST PROCEDURES AND DATA: TEST NO: 7 ATTEN 20dB RL .2dBm 10dB/  CENTER 1.62850GHz CENTER 1.62850GHz SPAN 30.00MHz RBW 300kHz VBW 300kHz SWP 50.0ms
	Figure 6-42. 40W HPA, Low End of Band

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REV LTR	TEST PROCEDURES AND DATA:	TEST NO: 7
ATTEN 20dB RL .2dBm 10dB/  CENTER 1.64550GHZ CENTER 1.64550GHZ SPAN 30.00MHZ RBW 300KHZ VBW 300KHZ SWP 50.0ms		
Figure 6-43. 40W HPA, Midband		

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TEST PROCEDURES AND DATA: TEST NO: 7

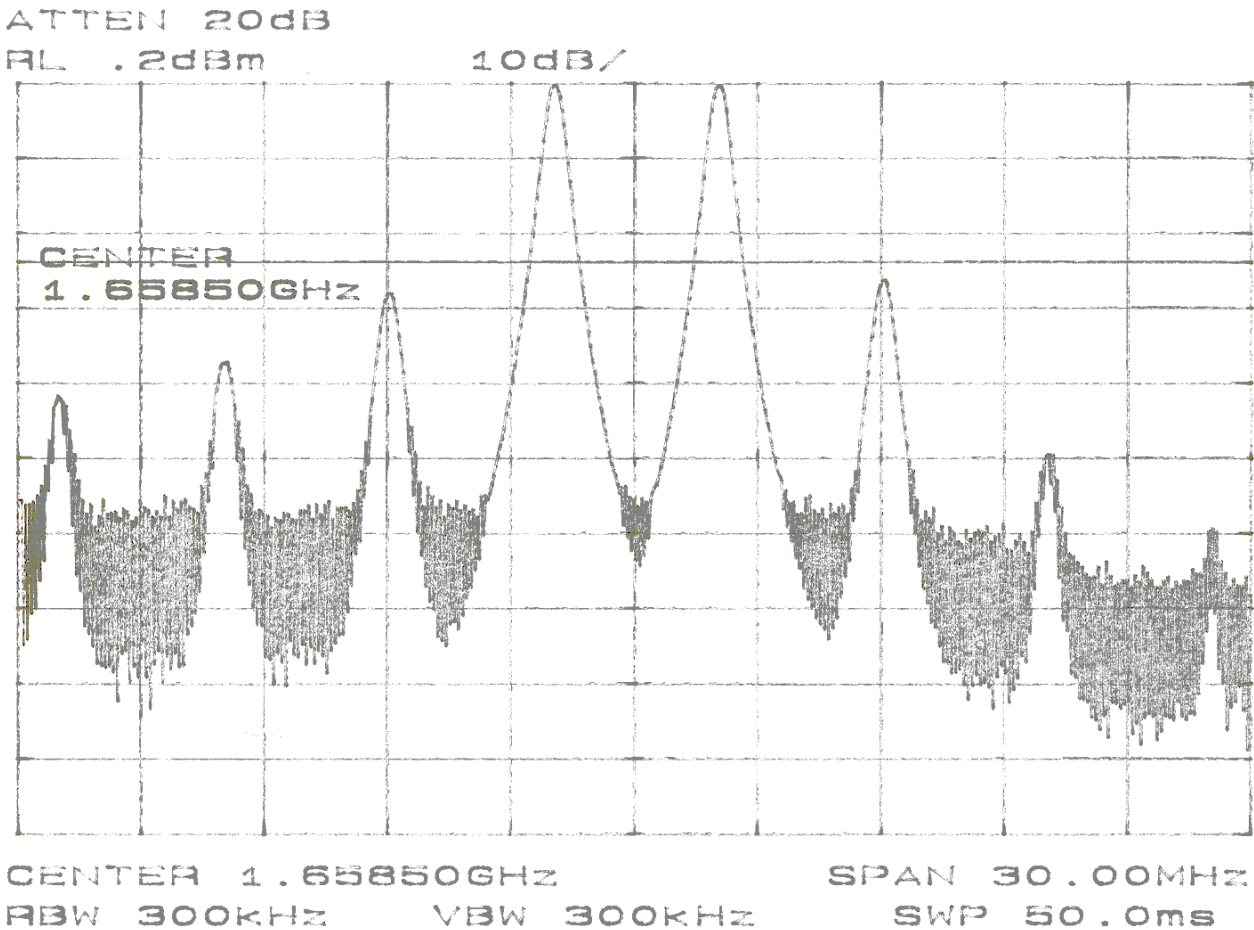


Figure 6-44. 40W HPA, High End of Band

TEST PERFORMED BY: Pete Bailey DATE: 10/2/00

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TEST NO: 8

5200-032 (REV 970213 BCAS ASF5900/ENG SPEC.DOT) (NEW 1/1/99-OFC97-DATA SERVICES) HONEYWELL INTERNATIONAL INC.

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REV LTR	TEST PROCEDURES AND DATA:	TEST NO: 8
	4.0 BLOCK DIAGRAM OF TEST SETUP: <pre> graph LR G --> B B --- C C --- A A --- J J --- H H --- F F --- I F --> E I --> D D --> K </pre>	

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REV LTR	TEST PROCEDURES AND DATA: TEST NO: 8 5.0 PROCEDURE: - Connect the equipment a shown in the block diagram in Section 4 of Test No. 8. - Using the terminal, set the SDU back-off attenuator to 0 dB. (This is the nominal back-off setting for the SDU.) - Using the terminal set the SDU to transmit a CW carrier on channel 1 at 1643.5 MHz. - For the 20W HPA, using the terminal, set the HPA back-off attenuator to produce 11.2 dBm on the power meter. This level equals 20 W at the HPA RF antenna port. - For the 40W HPA, using the terminal, set the HPA back-off attenuator to produce 14.2 dBm on the power meter. This level equals 40 W at the HPA RF antenna port. - For both the 20W and 40W HPAs, using the terminal, set the SDU to transmit at 1643.5 MHz each of the channel types indicated below beginning with the C-Channel (21 kbps). This will yield the widest bandwidth in the transmit spectrum due to the highest bit rate. - Set the spectrum analyzer according to the following table for each channel type. Capture the spectrum analyzer display for each channel type with both the 20W and 40W HPA.			
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SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.																								
REV LTR	TEST PROCEDURES AND DATA: TEST NO: 8 <table><tr><th>Channel Type</th><th>Spectrum Analyzer Setting</th></tr><tr><td>All channel types</td><td>Center Frequency: 1643.5 MHz Vertical Res: 10 dB/div</td></tr><tr><td>C21k</td><td>Span: 100 kHz RBW: 1 kHz VBW: 1 kHz</td></tr><tr><td>P600</td><td>Span: 100 kHz RBW: 30 Hz VBW: 30 Hz</td></tr><tr><td>P1200</td><td>Span: 100 kHz RBW: 100 Hz VBW: 100 Hz</td></tr><tr><td>P10.5k</td><td>Span: 100 kHz RBW: 1 kHz VBW: 1 kHz</td></tr><tr><td>C8.4k</td><td>Span: 100 kHz RBW: 300 Hz VBW: 300 Hz</td></tr><tr><td>P600</td><td>Span: 6 kHz RBW: 30 Hz VBW: 300 Hz</td></tr><tr><td>P1200</td><td>Span: 10 kHz RBW: 30 Hz VBW: 300 Hz</td></tr></table>						Channel Type	Spectrum Analyzer Setting	All channel types	Center Frequency: 1643.5 MHz Vertical Res: 10 dB/div	C21k	Span: 100 kHz RBW: 1 kHz VBW: 1 kHz	P600	Span: 100 kHz RBW: 30 Hz VBW: 30 Hz	P1200	Span: 100 kHz RBW: 100 Hz VBW: 100 Hz	P10.5k	Span: 100 kHz RBW: 1 kHz VBW: 1 kHz	C8.4k	Span: 100 kHz RBW: 300 Hz VBW: 300 Hz	P600	Span: 6 kHz RBW: 30 Hz VBW: 300 Hz	P1200	Span: 10 kHz RBW: 30 Hz VBW: 300 Hz
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C8.4k							Span: 100 kHz RBW: 300 Hz VBW: 300 Hz																	
P600							Span: 6 kHz RBW: 30 Hz VBW: 300 Hz																	
P1200							Span: 10 kHz RBW: 30 Hz VBW: 300 Hz																	
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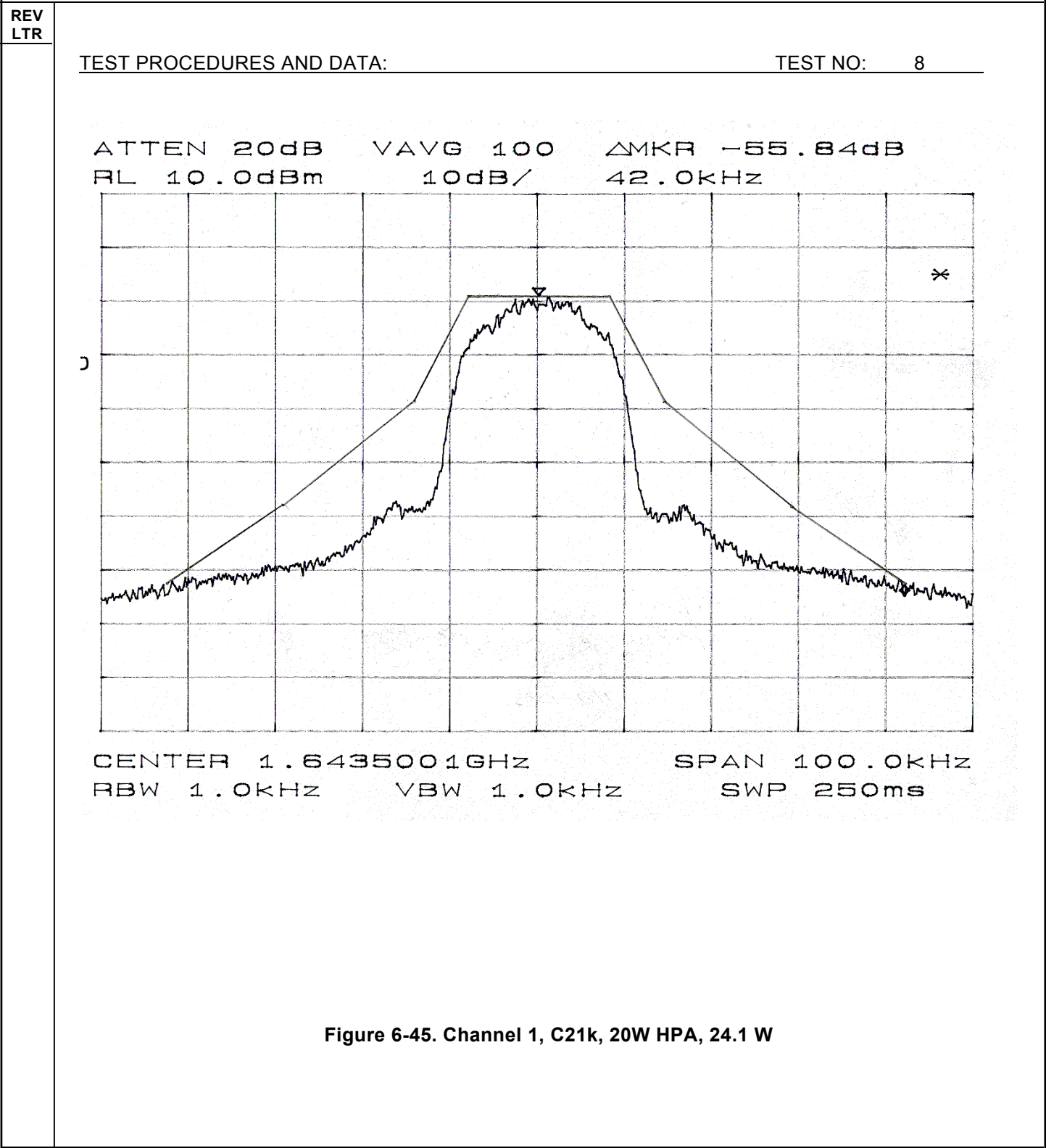


Figure 6-45. Channel 1, C21k, 20W HPA, 24.1 W

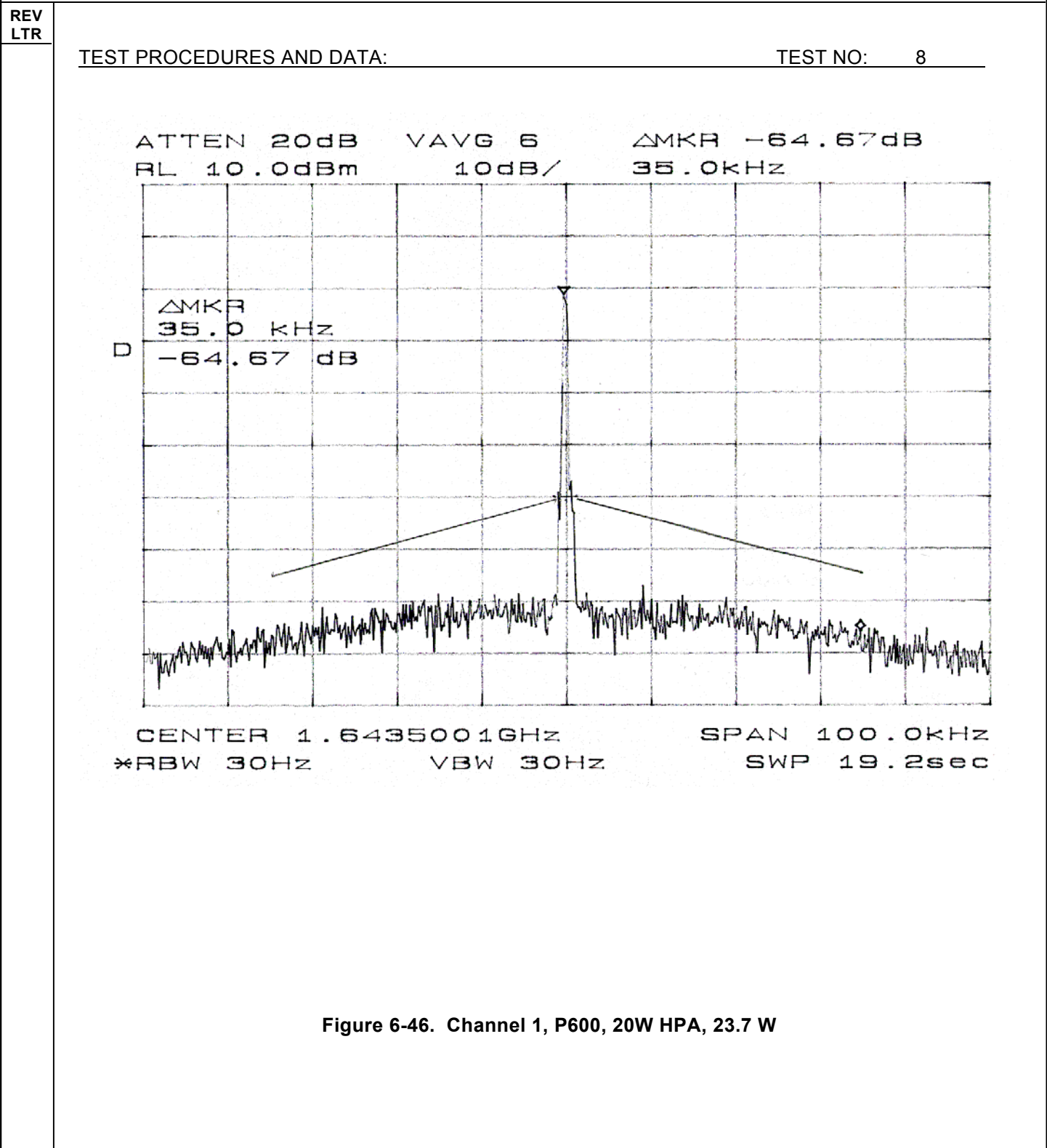
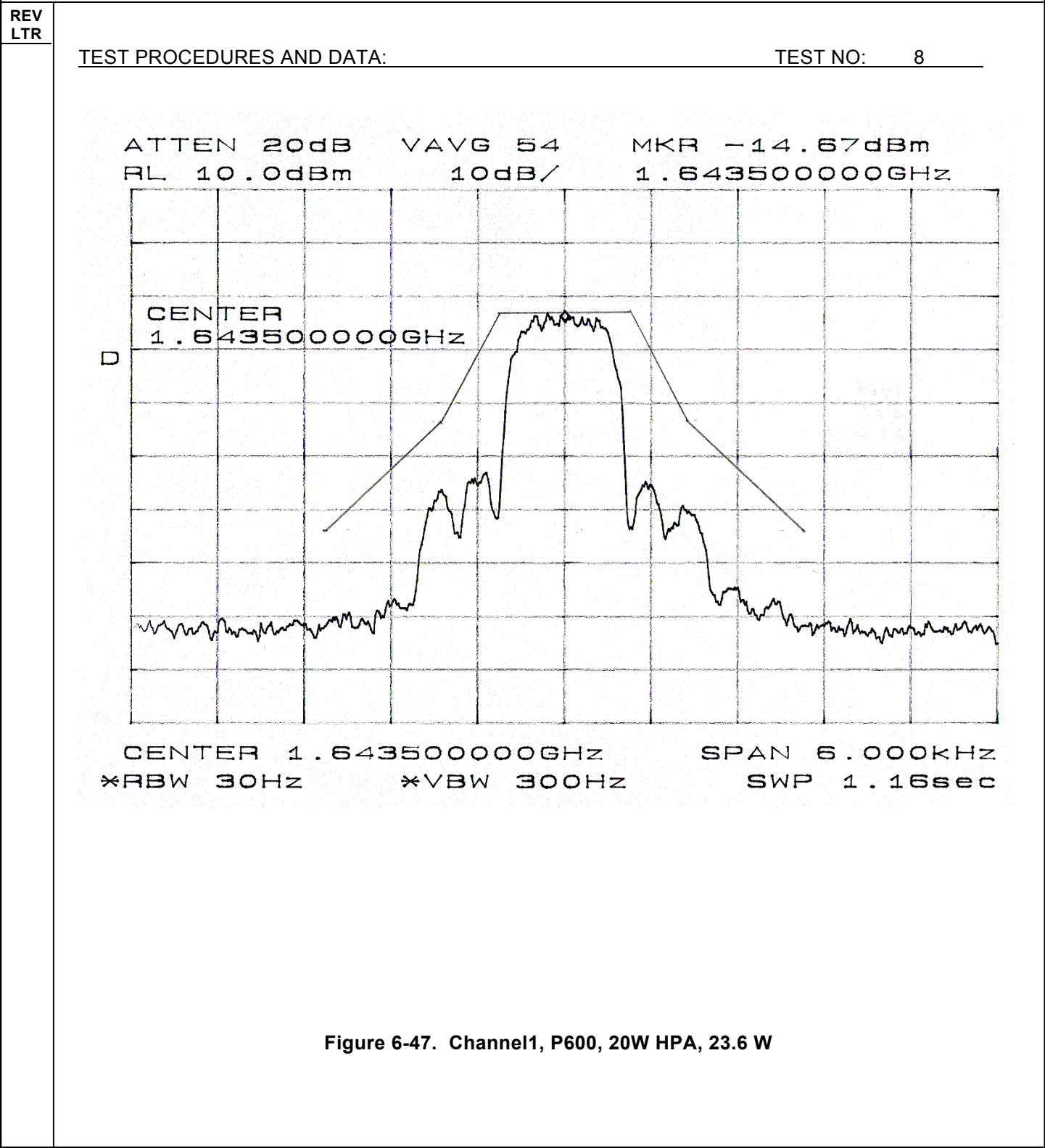


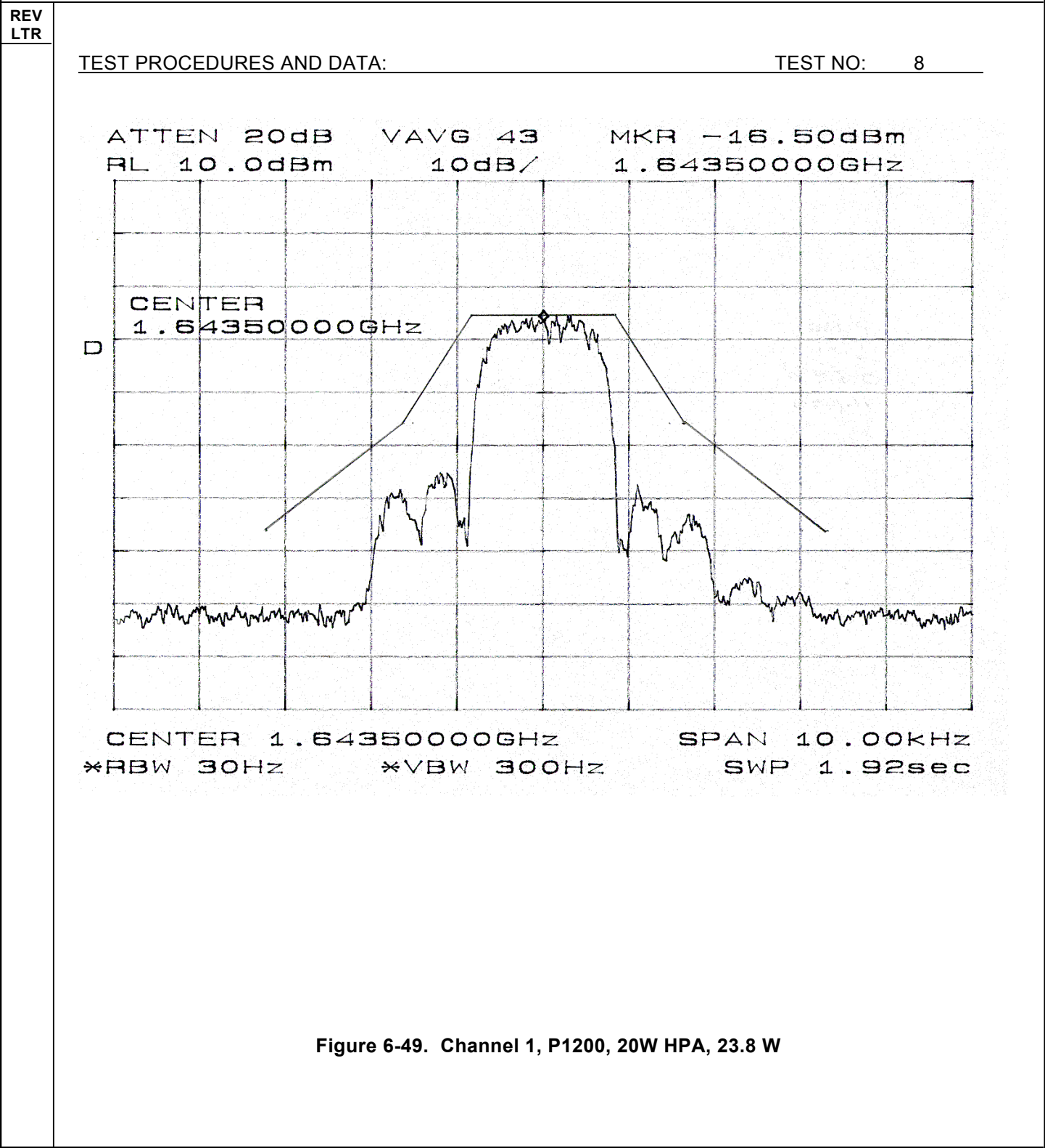
Figure 6-46. Channel 1, P600, 20W HPA, 23.7 W



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REV LTR	TEST PROCEDURES AND DATA: TEST NO: 8 ATTEN 20dB RL 10.0dBm VAVG 8 10dB/ ΔMKR -63.67dB 35.0kHz D CENTER 1.6435000GHz CENTER 1.6435000GHz SPAN 100.0kHz *RBW 100Hz *VBW 100Hz SWP 8.00sec
	Figure 6-48. Channel 1, P1200, 20W HPA, 23.9 W

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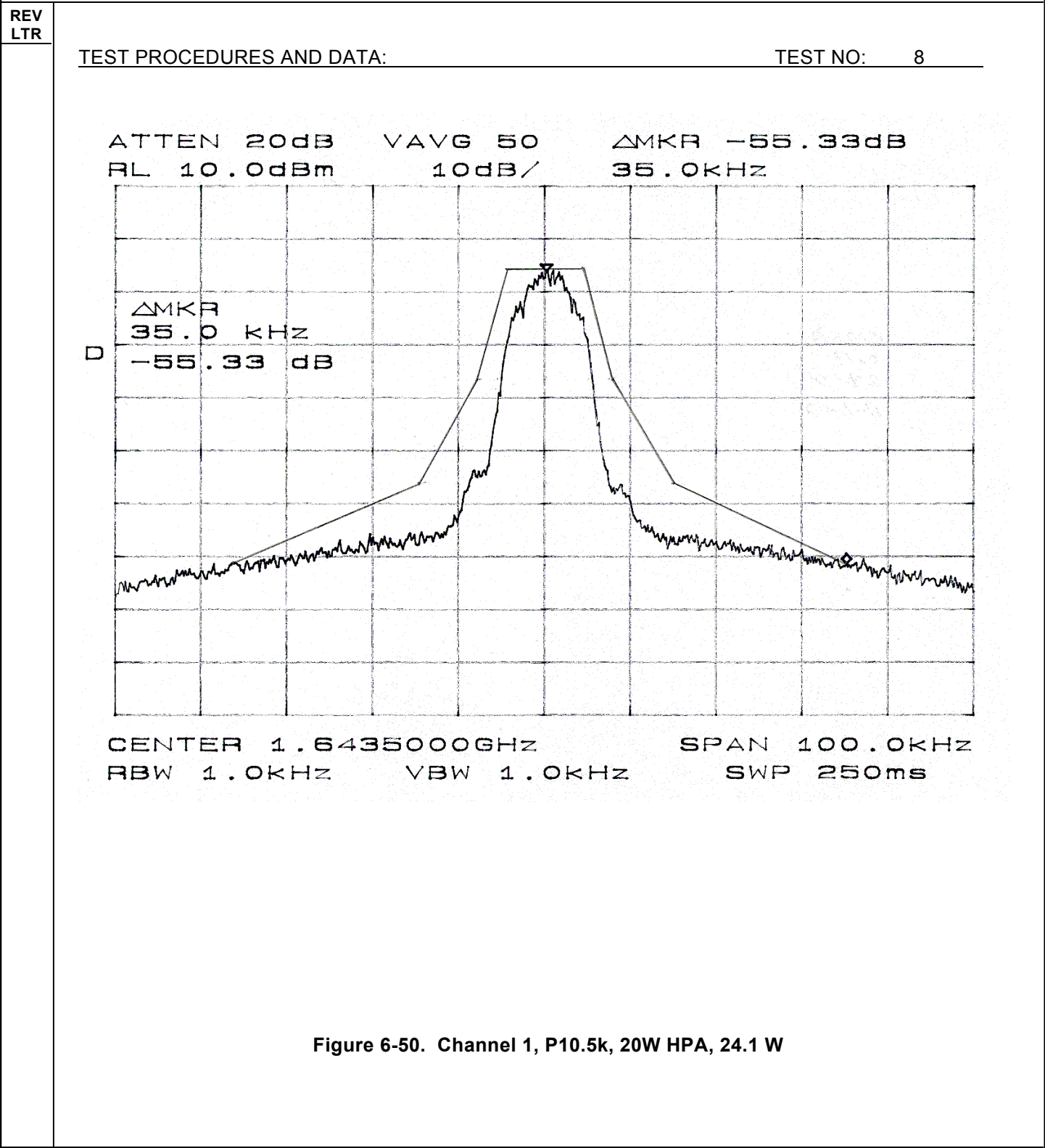


Figure 6-50. Channel 1, P10.5k, 20W HPA, 24.1 W

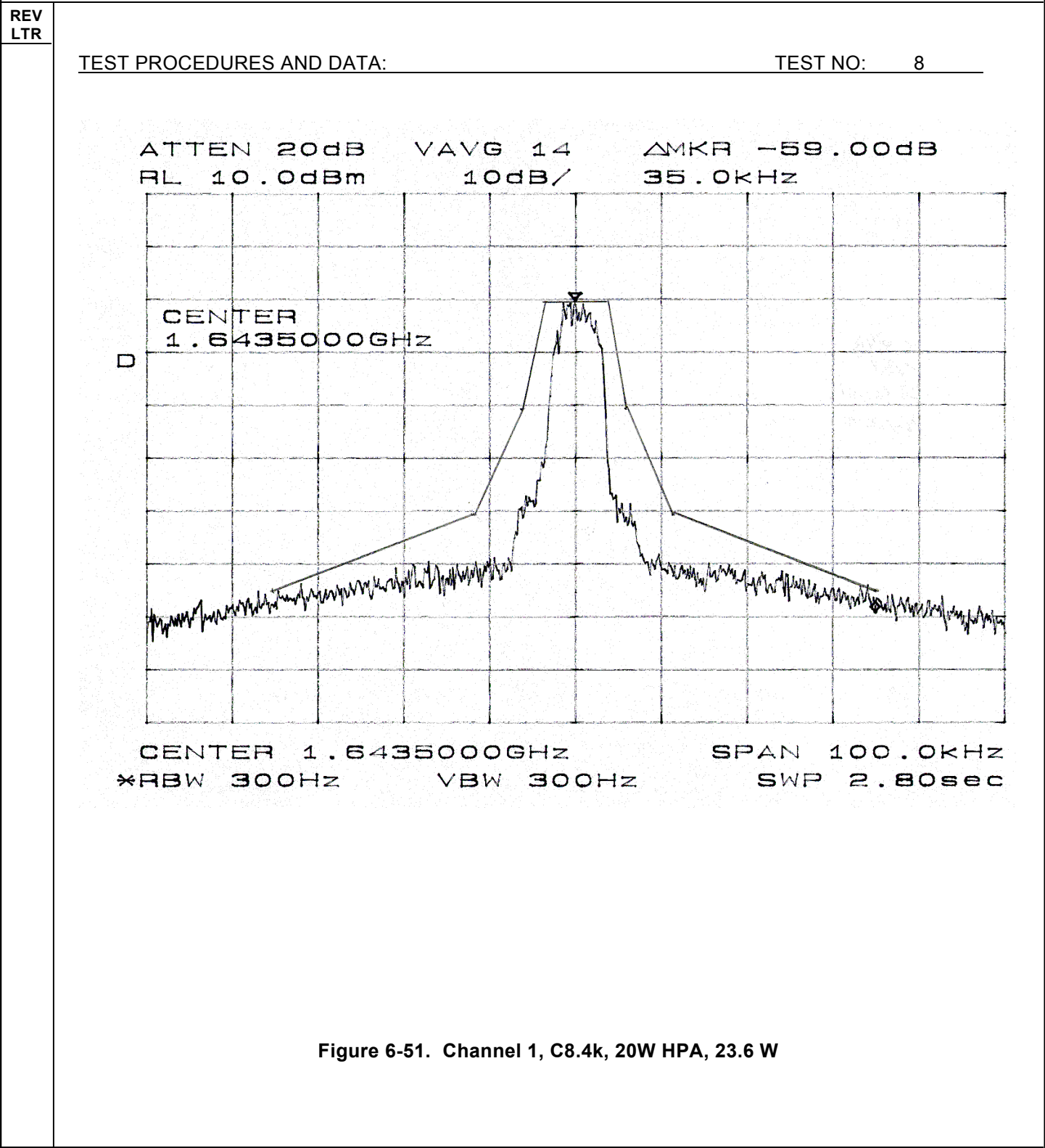


Figure 6-51. Channel 1, C8.4k, 20W HPA, 23.6 W

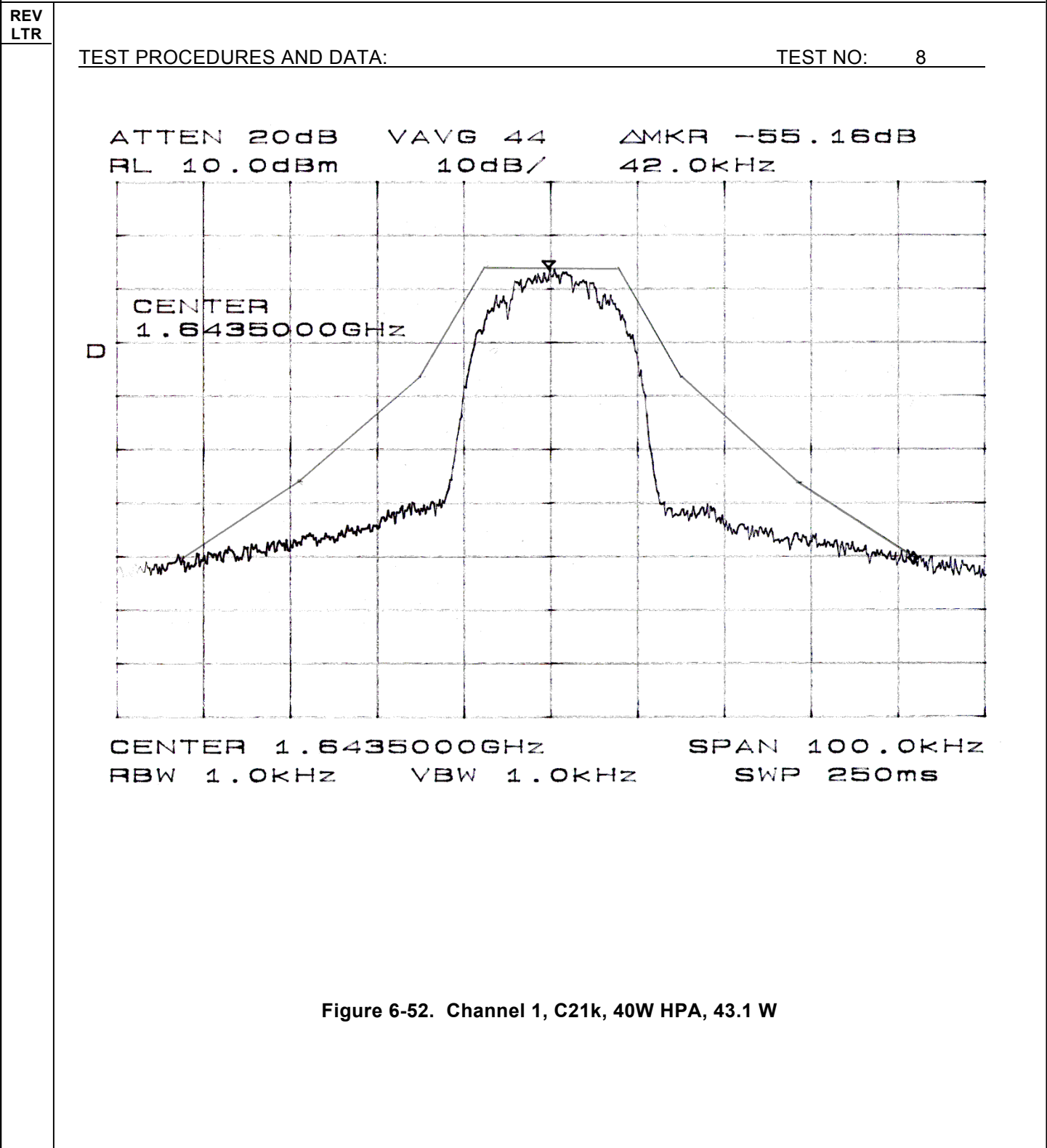


Figure 6-52. Channel 1, C21k, 40W HPA, 43.1 W

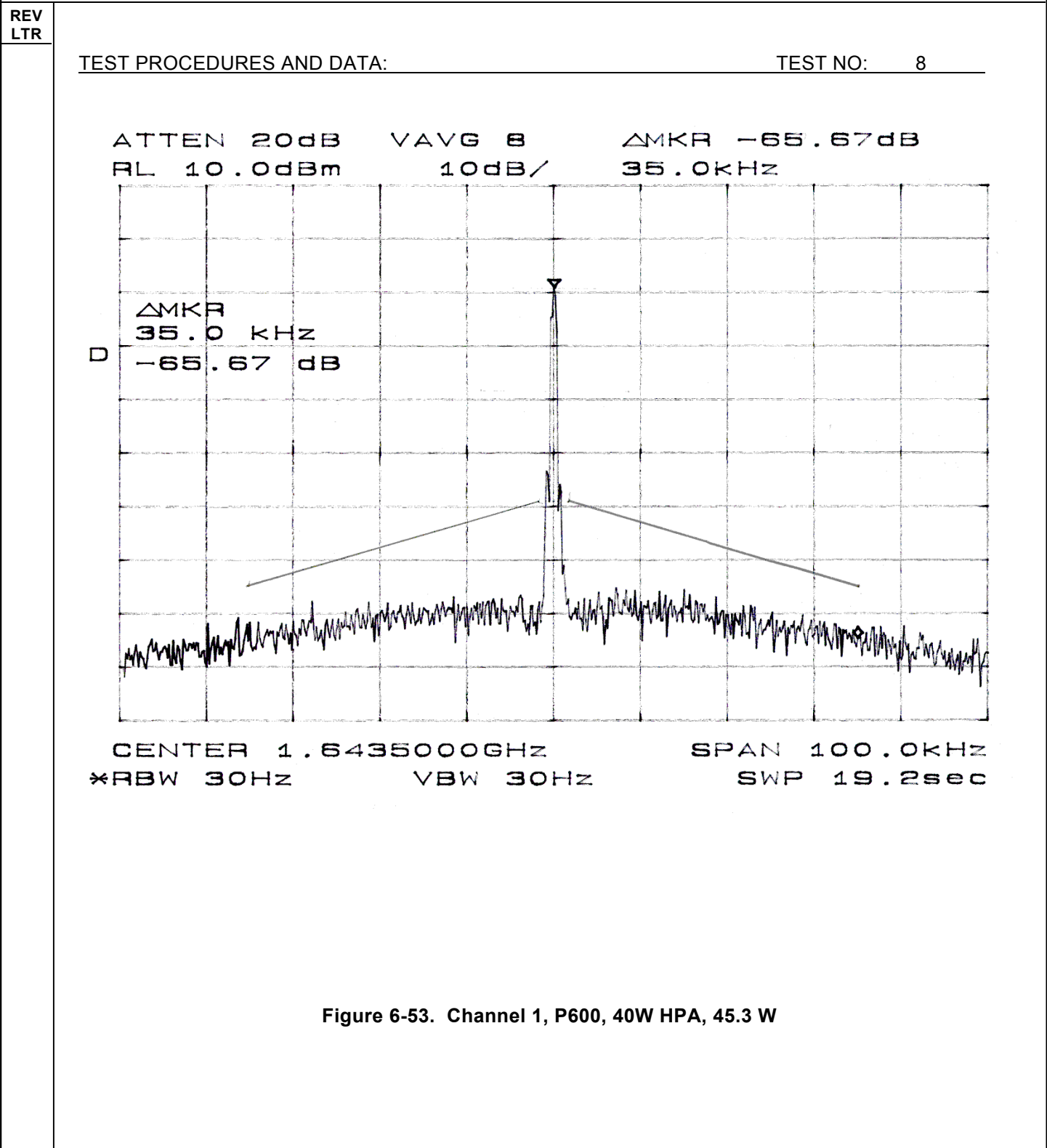


Figure 6-53. Channel 1, P600, 40W HPA, 45.3 W

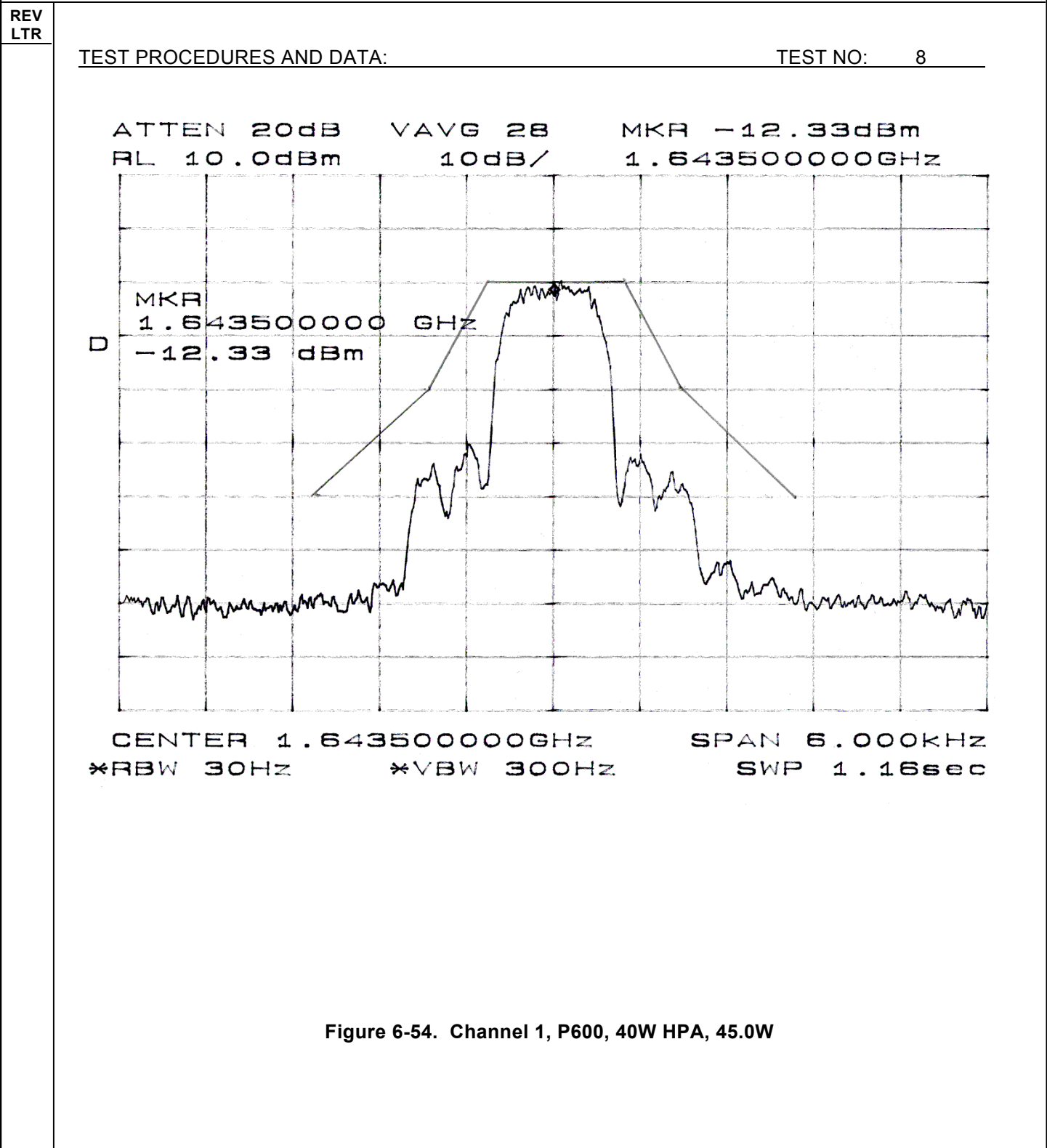
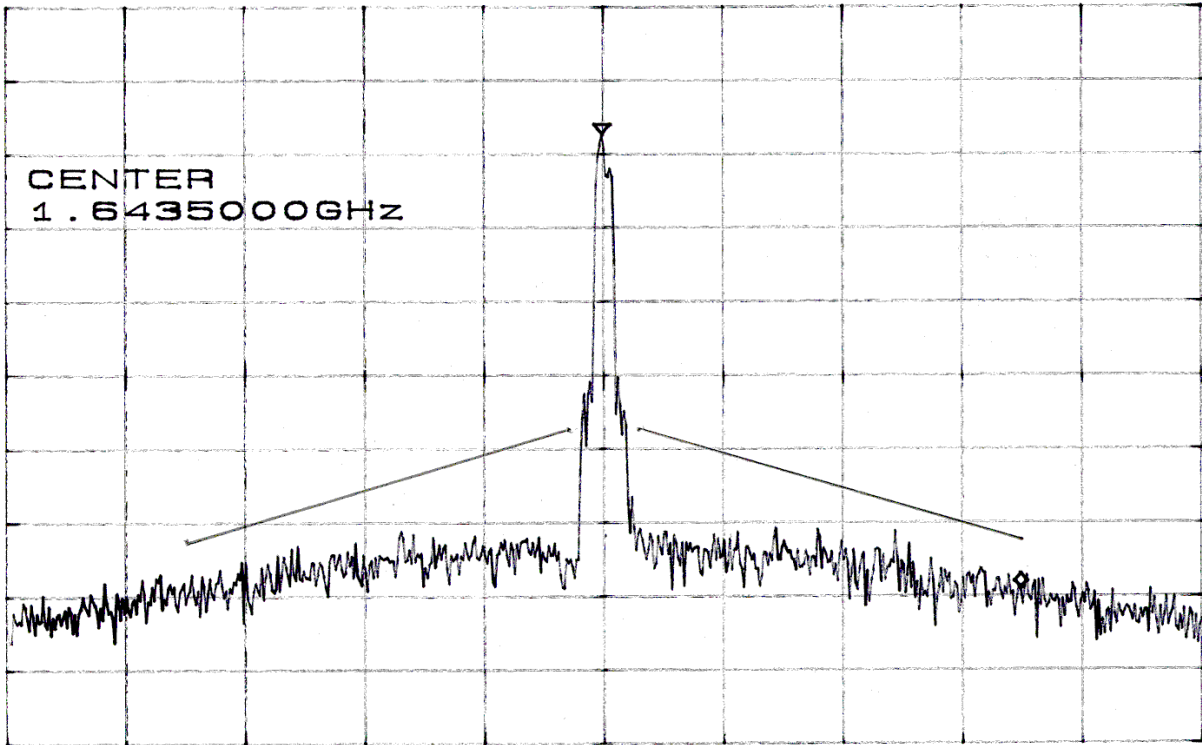


Figure 6-54. Channel 1, P600, 40W HPA, 45.0W

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REV LTR	TEST PROCEDURES AND DATA:		TEST NO: 8
	ATTEN 20dB VAVG 9 ΔMKR -61.67dB RL 10.0dBm 10dB/ 35.0kHz D CENTER 1.6435000GHz  CENTER 1.6435000GHz SPAN 100.0kHz *RBW 100Hz *VBW 100Hz SWP 8.00sec		
	Figure 6-55. Channel 1, P1200, 40W HPA, 46.0 W		

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TEST PROCEDURES AND DATA: TEST NO: 8

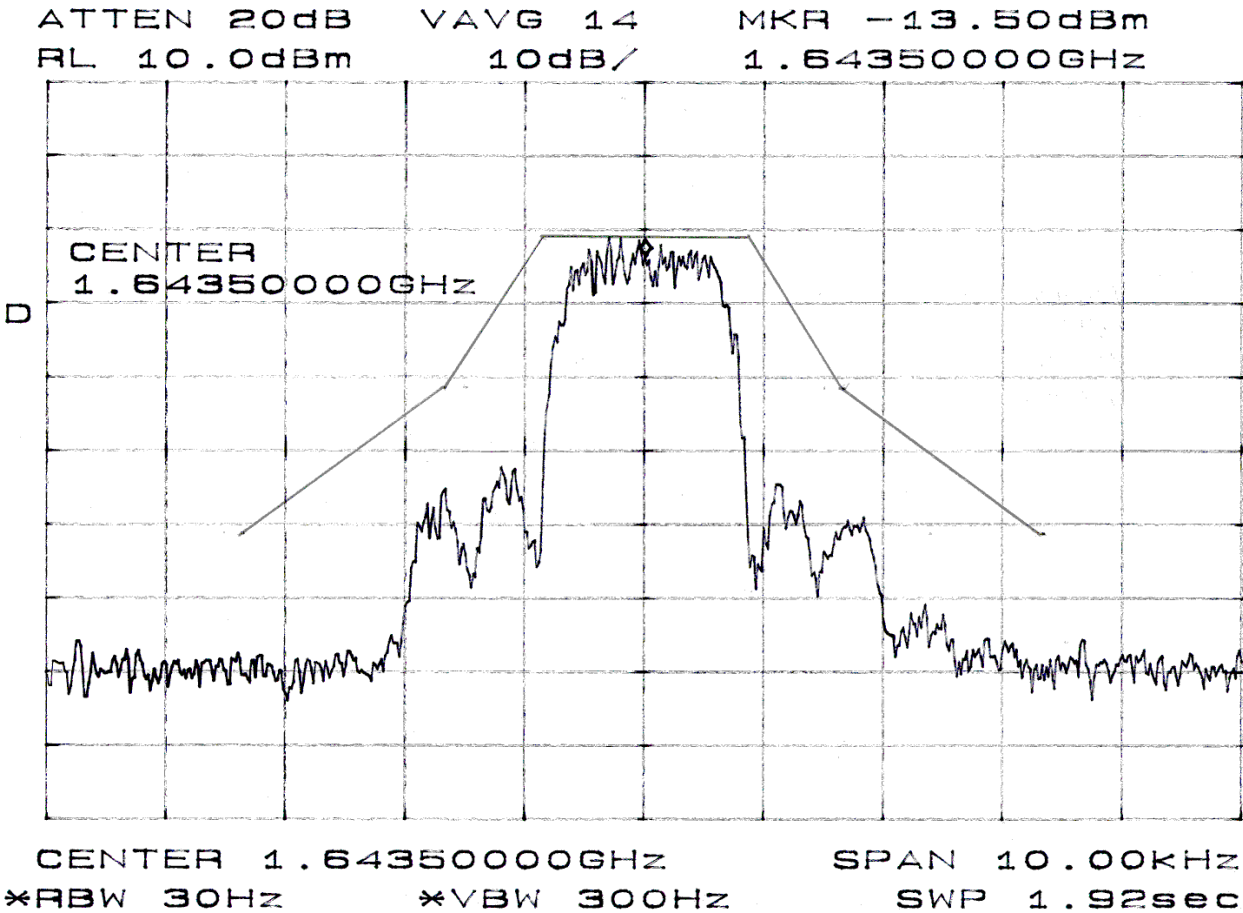
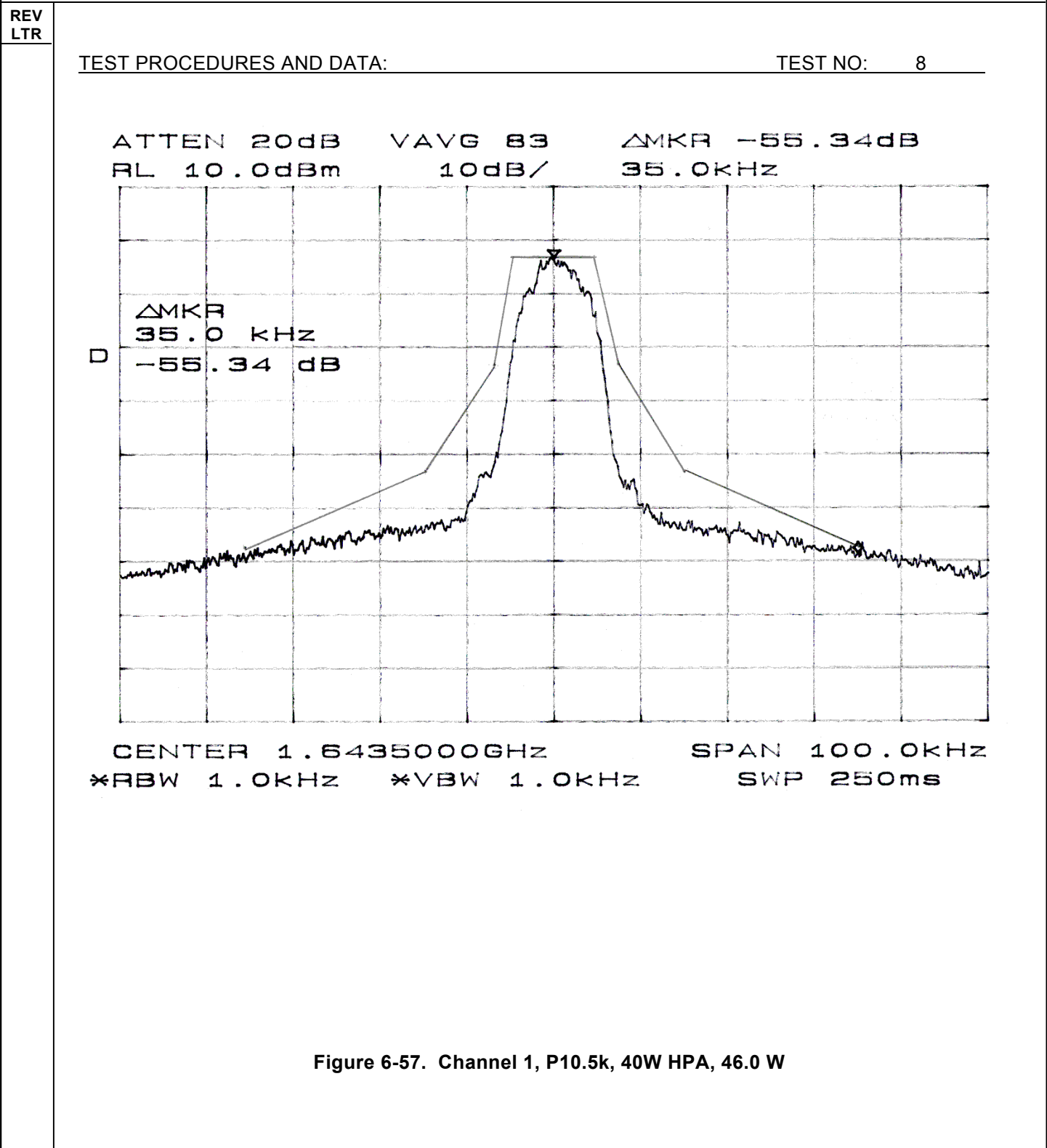


Figure 6-56. Channel 1, P1200, 40W HPA, 45.5 W

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		CAGE CODE	55939	
	SEE THE TITLE PAGE FOR PROPRIETARY AND DATA RIGHTS NOTATIONS.			

REV LTR	TEST PROCEDURES AND DATA:	TEST NO: 8
	ATTEN 20dB RL 10.0dBm VAVG 16 10dB/ ΔMKR -58.67dB 35.0kHz CENTER 1.6435000GHz *RBW 300Hz SPAN 100.0kHz SWP 2.80sec	
Figure 6-58. Channel 1, C8.4k, 40W HPA, 45.7 W TEST PERFORMED BY: Pete Bailey DATE: 11/1/00		

Honeywell	AW/CRITICAL NOTATION		
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