

**Appendix A:Maximum Transmitter Power**

Operation Mode	Modulation Type	Test Channel	Measured Power(dBm)	Measured Power(W)	Rated Power(W)	Percentage (%)	Limit (%)	Result
TX-AWH	FM	CH <sub>L</sub>	34.7	2.96	3.00	-1.4	±20	PASS
TX-AWH	FM	CH <sub>M</sub>	34.7	2.96	3.00	-1.2	±20	PASS
TX-AWH	FM	CH <sub>H</sub>	34.7	2.96	3.00	-1.2	±20	PASS
TX-AWL	FM	CH <sub>L</sub>	27.2	0.52	0.50	3.8	±20	PASS
TX-AWL	FM	CH <sub>M</sub>	27.0	0.50	0.50	0.9	±20	PASS
TX-AWL	FM	CH <sub>H</sub>	27.0	0.50	0.50	0.7	±20	PASS

**Appendix B:Occupied Bandwidth**

Operation Mode	Modulation Type	Test Channel	Occupied Bandwidth		99% Limit(kHz)	Result
			99%(kHz)	26dB(kHz)		
TX-AWH	FM	CH <sub>L</sub>	15.053	15.710	≤20	PASS
TX-AWH	FM	CH <sub>M</sub>	15.081	15.710	≤20	PASS
TX-AWH	FM	CH <sub>H</sub>	<b><u>15.100</u></b>	15.720	≤20	PASS
TX-AWL	FM	CH <sub>L</sub>	15.074	15.710	≤20	PASS
TX-AWL	FM	CH <sub>M</sub>	15.106	15.730	≤20	PASS
TX-AWL	FM	CH <sub>H</sub>	<b><u>15.126</u></b>	15.730	≤20	PASS



**Appendix B:Occupied Bandwidth**

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWH	FM	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 156.025000 MHz Center Freq: 156.025000 MHz Radio Std: None</p> <p>Ref 25.46 dBm</p> <p>Occupied Bandwidth 15.053 kHz Total Power 22.4 dBm</p> <p>Transmit Freq Error 310 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 15.71 kHz x dB -26.00 dB</p>
TX-AWH	FM	CH <sub>M</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 156.800000 MHz Center Freq: 156.800000 MHz Radio Std: None</p> <p>Ref 25.53 dBm</p> <p>Occupied Bandwidth 15.081 kHz Total Power 22.5 dBm</p> <p>Transmit Freq Error 315 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 15.72 kHz x dB -26.00 dB</p>
TX-AWH	FM	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 157.425000 MHz Center Freq: 157.425000 MHz Radio Std: None</p> <p>Ref 25.58 dBm</p> <p>Occupied Bandwidth 15.100 kHz Total Power 22.5 dBm</p> <p>Transmit Freq Error 315 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 15.72 kHz x dB -26.00 dB</p>

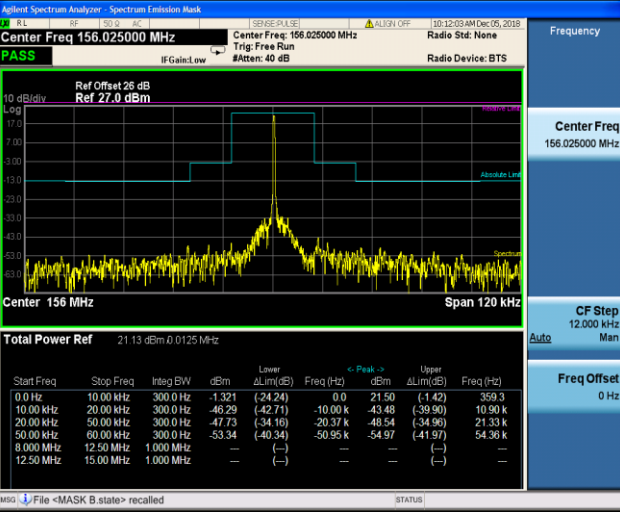
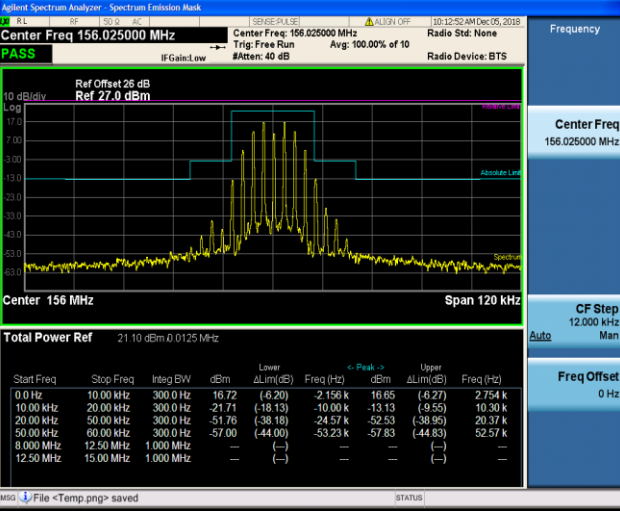
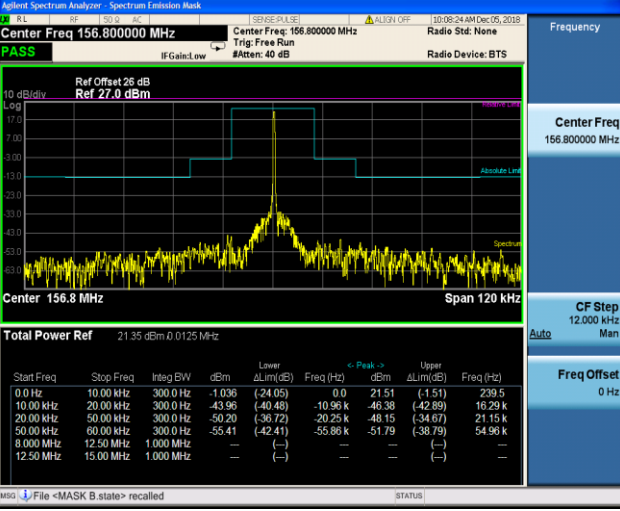


**Appendix B:Occupied Bandwidth**

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWL	FM	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 156.025000 MHz Center Freq: 156.025000 MHz Radio Std: None</p> <p>Ref 18.53 dBm</p> <p>Center 156 MHz Span 50 kHz</p> <p>#Res BW 300 Hz #VBW 1 kHz Sweep 527.2 ms</p> <p>Occupied Bandwidth 15.074 kHz Total Power 15.3 dBm</p> <p>Transmit Freq Error 306 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 15.71 kHz x dB -26.00 dB</p>
TX-AWL	FM	CH <sub>M</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 156.800000 MHz Center Freq: 156.800000 MHz Radio Std: None</p> <p>Ref 18.47 dBm</p> <p>Center 156.8 MHz Span 50 kHz</p> <p>#Res BW 300 Hz #VBW 1 kHz Sweep 527.2 ms</p> <p>Occupied Bandwidth 15.106 kHz Total Power 15.2 dBm</p> <p>Transmit Freq Error 315 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 15.73 kHz x dB -26.00 dB</p>
TX-AWL	FM	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 157.425000 MHz Center Freq: 157.425000 MHz Radio Std: None</p> <p>Ref 18.41 dBm</p> <p>Center 157.4 MHz Span 50 kHz</p> <p>#Res BW 300 Hz #VBW 1 kHz Sweep 527.2 ms</p> <p>Occupied Bandwidth 15.126 kHz Total Power 15.2 dBm</p> <p>Transmit Freq Error 315 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 15.73 kHz x dB -26.00 dB</p>



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-AWH	FM	CH <sub>L</sub>	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask          Center Freq 156.025000 MHz          Ref Offset 26 dB          Ref 27.0 dBm          Total Power Ref 21.13 dBm/0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>Peak dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>10.00 kHz</td> <td>300.0 Hz</td> <td>-1.321</td> <td>(-24.24)</td> <td>0.0</td> <td>21.50</td> <td>(-1.42)</td> <td>359.3</td> </tr> <tr> <td>10.00 kHz</td> <td>20.00 kHz</td> <td>300.0 Hz</td> <td>-46.29</td> <td>(-42.71)</td> <td>-10.00 k</td> <td>-43.48</td> <td>(-39.90)</td> <td>10.90 k</td> </tr> <tr> <td>20.00 kHz</td> <td>50.00 kHz</td> <td>300.0 Hz</td> <td>-47.73</td> <td>(-34.16)</td> <td>-20.37 k</td> <td>-48.54</td> <td>(-34.96)</td> <td>21.33 k</td> </tr> <tr> <td>50.00 kHz</td> <td>60.00 kHz</td> <td>300.0 Hz</td> <td>-53.34</td> <td>(-40.34)</td> <td>-50.95 k</td> <td>-54.97</td> <td>(-41.97)</td> <td>54.30 k</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	10.00 kHz	300.0 Hz	-1.321	(-24.24)	0.0	21.50	(-1.42)	359.3	10.00 kHz	20.00 kHz	300.0 Hz	-46.29	(-42.71)	-10.00 k	-43.48	(-39.90)	10.90 k	20.00 kHz	50.00 kHz	300.0 Hz	-47.73	(-34.16)	-20.37 k	-48.54	(-34.96)	21.33 k	50.00 kHz	60.00 kHz	300.0 Hz	-53.34	(-40.34)	-50.95 k	-54.97	(-41.97)	54.30 k	8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	-	12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	10.00 kHz	300.0 Hz	-1.321	(-24.24)	0.0	21.50	(-1.42)	359.3																																																										
10.00 kHz	20.00 kHz	300.0 Hz	-46.29	(-42.71)	-10.00 k	-43.48	(-39.90)	10.90 k																																																										
20.00 kHz	50.00 kHz	300.0 Hz	-47.73	(-34.16)	-20.37 k	-48.54	(-34.96)	21.33 k																																																										
50.00 kHz	60.00 kHz	300.0 Hz	-53.34	(-40.34)	-50.95 k	-54.97	(-41.97)	54.30 k																																																										
8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	-																																																										
12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-																																																										
TX-AWH	FM	CH <sub>L</sub>	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask          Center Freq 156.025000 MHz          Ref Offset 26 dB          Ref 27.0 dBm          Total Power Ref 21.10 dBm/0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>Peak dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>10.00 kHz</td> <td>300.0 Hz</td> <td>16.72</td> <td>(6.20)</td> <td>-2.156 k</td> <td>16.65</td> <td>(6.27)</td> <td>2.754 k</td> </tr> <tr> <td>10.00 kHz</td> <td>20.00 kHz</td> <td>300.0 Hz</td> <td>-21.71</td> <td>(-18.13)</td> <td>-10.00 k</td> <td>-43.13</td> <td>(-9.55)</td> <td>10.30 k</td> </tr> <tr> <td>20.00 kHz</td> <td>50.00 kHz</td> <td>300.0 Hz</td> <td>-51.76</td> <td>(-38.18)</td> <td>-24.57 k</td> <td>-52.53</td> <td>(-38.95)</td> <td>20.37 k</td> </tr> <tr> <td>50.00 kHz</td> <td>60.00 kHz</td> <td>300.0 Hz</td> <td>-57.00</td> <td>(-44.00)</td> <td>-53.23 k</td> <td>-57.83</td> <td>(-44.83)</td> <td>52.57 k</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	10.00 kHz	300.0 Hz	16.72	(6.20)	-2.156 k	16.65	(6.27)	2.754 k	10.00 kHz	20.00 kHz	300.0 Hz	-21.71	(-18.13)	-10.00 k	-43.13	(-9.55)	10.30 k	20.00 kHz	50.00 kHz	300.0 Hz	-51.76	(-38.18)	-24.57 k	-52.53	(-38.95)	20.37 k	50.00 kHz	60.00 kHz	300.0 Hz	-57.00	(-44.00)	-53.23 k	-57.83	(-44.83)	52.57 k	8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	-	12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	10.00 kHz	300.0 Hz	16.72	(6.20)	-2.156 k	16.65	(6.27)	2.754 k																																																										
10.00 kHz	20.00 kHz	300.0 Hz	-21.71	(-18.13)	-10.00 k	-43.13	(-9.55)	10.30 k																																																										
20.00 kHz	50.00 kHz	300.0 Hz	-51.76	(-38.18)	-24.57 k	-52.53	(-38.95)	20.37 k																																																										
50.00 kHz	60.00 kHz	300.0 Hz	-57.00	(-44.00)	-53.23 k	-57.83	(-44.83)	52.57 k																																																										
8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	-																																																										
12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-																																																										
TX-AWH	FM	CH <sub>M</sub>	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask          Center Freq 156.800000 MHz          Ref Offset 26 dB          Ref 27.0 dBm          Total Power Ref 21.35 dBm/0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>Peak dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>10.00 kHz</td> <td>300.0 Hz</td> <td>-1.036</td> <td>(-24.05)</td> <td>0.0</td> <td>21.51</td> <td>(-1.51)</td> <td>239.5</td> </tr> <tr> <td>10.00 kHz</td> <td>20.00 kHz</td> <td>300.0 Hz</td> <td>-43.96</td> <td>(-40.48)</td> <td>-10.96 k</td> <td>-46.38</td> <td>(-42.89)</td> <td>16.29 k</td> </tr> <tr> <td>20.00 kHz</td> <td>50.00 kHz</td> <td>300.0 Hz</td> <td>-50.20</td> <td>(-36.72)</td> <td>-20.25 k</td> <td>-48.15</td> <td>(-34.67)</td> <td>21.15 k</td> </tr> <tr> <td>50.00 kHz</td> <td>60.00 kHz</td> <td>300.0 Hz</td> <td>-55.41</td> <td>(-42.41)</td> <td>-55.86 k</td> <td>-51.79</td> <td>(-38.79)</td> <td>54.90 k</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	10.00 kHz	300.0 Hz	-1.036	(-24.05)	0.0	21.51	(-1.51)	239.5	10.00 kHz	20.00 kHz	300.0 Hz	-43.96	(-40.48)	-10.96 k	-46.38	(-42.89)	16.29 k	20.00 kHz	50.00 kHz	300.0 Hz	-50.20	(-36.72)	-20.25 k	-48.15	(-34.67)	21.15 k	50.00 kHz	60.00 kHz	300.0 Hz	-55.41	(-42.41)	-55.86 k	-51.79	(-38.79)	54.90 k	8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	-	12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	10.00 kHz	300.0 Hz	-1.036	(-24.05)	0.0	21.51	(-1.51)	239.5																																																										
10.00 kHz	20.00 kHz	300.0 Hz	-43.96	(-40.48)	-10.96 k	-46.38	(-42.89)	16.29 k																																																										
20.00 kHz	50.00 kHz	300.0 Hz	-50.20	(-36.72)	-20.25 k	-48.15	(-34.67)	21.15 k																																																										
50.00 kHz	60.00 kHz	300.0 Hz	-55.41	(-42.41)	-55.86 k	-51.79	(-38.79)	54.90 k																																																										
8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	-																																																										
12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-																																																										



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-AWH	FM	CH <sub>M</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask  <b>Center Freq 156.800000 MHz</b> Center Freq: 156.800000 MHz Radio Std: None      Trg: Free Run Avg: 100.00% of 10      #Atten: 40 dB Radio Device: BTS</p> <p>Ref Offset 26 dB      Ref 27.0 dBm</p> <p>Center 156.8 MHz Span 120 kHz</p> <p>Total Power Ref 21.18 dBm/0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Peak Freq (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 kHz</td> <td>10.00 kHz</td> <td>300.0 Hz</td> <td>16.76</td> <td>(-6.23)</td> <td>-2.156 k</td> <td>16.77</td> <td>(-6.24)</td> <td>2.874 k</td> </tr> <tr> <td>10.00 kHz</td> <td>20.00 kHz</td> <td>300.0 Hz</td> <td>-21.38</td> <td>(-17.89)</td> <td>-10.00 k</td> <td>-12.61</td> <td>(-9.13)</td> <td>10.30 k</td> </tr> <tr> <td>20.00 kHz</td> <td>50.00 kHz</td> <td>300.0 Hz</td> <td>-52.96</td> <td>(-39.49)</td> <td>-20.00 k</td> <td>-50.49</td> <td>(-37.01)</td> <td>20.37 k</td> </tr> <tr> <td>50.00 kHz</td> <td>60.00 kHz</td> <td>300.0 Hz</td> <td>-52.96</td> <td>(-39.49)</td> <td>-20.00 k</td> <td>-50.49</td> <td>(-37.01)</td> <td>20.37 k</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>-57.10</td> <td>(-44.10)</td> <td>-50.77 k</td> <td>-56.67</td> <td>(-43.67)</td> <td>52.93 k</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 kHz	10.00 kHz	300.0 Hz	16.76	(-6.23)	-2.156 k	16.77	(-6.24)	2.874 k	10.00 kHz	20.00 kHz	300.0 Hz	-21.38	(-17.89)	-10.00 k	-12.61	(-9.13)	10.30 k	20.00 kHz	50.00 kHz	300.0 Hz	-52.96	(-39.49)	-20.00 k	-50.49	(-37.01)	20.37 k	50.00 kHz	60.00 kHz	300.0 Hz	-52.96	(-39.49)	-20.00 k	-50.49	(-37.01)	20.37 k	8.000 MHz	12.50 MHz	1.000 MHz	-57.10	(-44.10)	-50.77 k	-56.67	(-43.67)	52.93 k	12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 kHz	10.00 kHz	300.0 Hz	16.76	(-6.23)	-2.156 k	16.77	(-6.24)	2.874 k																																																										
10.00 kHz	20.00 kHz	300.0 Hz	-21.38	(-17.89)	-10.00 k	-12.61	(-9.13)	10.30 k																																																										
20.00 kHz	50.00 kHz	300.0 Hz	-52.96	(-39.49)	-20.00 k	-50.49	(-37.01)	20.37 k																																																										
50.00 kHz	60.00 kHz	300.0 Hz	-52.96	(-39.49)	-20.00 k	-50.49	(-37.01)	20.37 k																																																										
8.000 MHz	12.50 MHz	1.000 MHz	-57.10	(-44.10)	-50.77 k	-56.67	(-43.67)	52.93 k																																																										
12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-																																																										
TX-AWH	FM	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask  <b>Center Freq 157.425000 MHz</b> Center Freq: 157.425000 MHz Radio Std: None      Trg: Free Run Avg: 100.00% of 10      #Atten: 40 dB Radio Device: BTS</p> <p>Ref Offset 26 dB      Ref 27.0 dBm</p> <p>Center 157.4 MHz Span 120 kHz</p> <p>Total Power Ref 21.32 dBm/0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Peak Freq (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 kHz</td> <td>10.00 kHz</td> <td>300.0 Hz</td> <td>-6.230</td> <td>(-29.29)</td> <td>0.0</td> <td>21.62</td> <td>(-1.43)</td> <td>359.3</td> </tr> <tr> <td>10.00 kHz</td> <td>20.00 kHz</td> <td>300.0 Hz</td> <td>-48.88</td> <td>(-43.53)</td> <td>-19.47 k</td> <td>-45.82</td> <td>(-42.38)</td> <td>13.42 k</td> </tr> <tr> <td>20.00 kHz</td> <td>50.00 kHz</td> <td>300.0 Hz</td> <td>-50.34</td> <td>(-36.89)</td> <td>-22.05 k</td> <td>-49.30</td> <td>(-35.86)</td> <td>24.75 k</td> </tr> <tr> <td>50.00 kHz</td> <td>60.00 kHz</td> <td>300.0 Hz</td> <td>-52.03</td> <td>(-39.03)</td> <td>-57.96 k</td> <td>-53.79</td> <td>(-40.79)</td> <td>55.14 k</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 kHz	10.00 kHz	300.0 Hz	-6.230	(-29.29)	0.0	21.62	(-1.43)	359.3	10.00 kHz	20.00 kHz	300.0 Hz	-48.88	(-43.53)	-19.47 k	-45.82	(-42.38)	13.42 k	20.00 kHz	50.00 kHz	300.0 Hz	-50.34	(-36.89)	-22.05 k	-49.30	(-35.86)	24.75 k	50.00 kHz	60.00 kHz	300.0 Hz	-52.03	(-39.03)	-57.96 k	-53.79	(-40.79)	55.14 k	8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	-	12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 kHz	10.00 kHz	300.0 Hz	-6.230	(-29.29)	0.0	21.62	(-1.43)	359.3																																																										
10.00 kHz	20.00 kHz	300.0 Hz	-48.88	(-43.53)	-19.47 k	-45.82	(-42.38)	13.42 k																																																										
20.00 kHz	50.00 kHz	300.0 Hz	-50.34	(-36.89)	-22.05 k	-49.30	(-35.86)	24.75 k																																																										
50.00 kHz	60.00 kHz	300.0 Hz	-52.03	(-39.03)	-57.96 k	-53.79	(-40.79)	55.14 k																																																										
8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	-																																																										
12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-																																																										
TX-AWH	FM	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask  <b>Center Freq 157.425000 MHz</b> Center Freq: 157.425000 MHz Radio Std: None      Trg: Free Run Avg: 100.00% of 10      #Atten: 40 dB Radio Device: BTS</p> <p>Ref Offset 26 dB      Ref 27.0 dBm</p> <p>Center 157.4 MHz Span 120 kHz</p> <p>Total Power Ref 21.21 dBm/0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Peak Freq (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 kHz</td> <td>10.00 kHz</td> <td>300.0 Hz</td> <td>16.82</td> <td>(-6.24)</td> <td>-2.156 k</td> <td>16.79</td> <td>(-6.27)</td> <td>2.874 k</td> </tr> <tr> <td>10.00 kHz</td> <td>20.00 kHz</td> <td>300.0 Hz</td> <td>-20.88</td> <td>(-17.44)</td> <td>-10.00 k</td> <td>-12.32</td> <td>(-8.88)</td> <td>10.30 k</td> </tr> <tr> <td>20.00 kHz</td> <td>50.00 kHz</td> <td>300.0 Hz</td> <td>-53.33</td> <td>(-39.89)</td> <td>-20.00 k</td> <td>-51.19</td> <td>(-37.75)</td> <td>20.37 k</td> </tr> <tr> <td>50.00 kHz</td> <td>60.00 kHz</td> <td>300.0 Hz</td> <td>-50.69</td> <td>(-43.69)</td> <td>-55.38 k</td> <td>-50.47</td> <td>(-43.47)</td> <td>54.54 k</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 kHz	10.00 kHz	300.0 Hz	16.82	(-6.24)	-2.156 k	16.79	(-6.27)	2.874 k	10.00 kHz	20.00 kHz	300.0 Hz	-20.88	(-17.44)	-10.00 k	-12.32	(-8.88)	10.30 k	20.00 kHz	50.00 kHz	300.0 Hz	-53.33	(-39.89)	-20.00 k	-51.19	(-37.75)	20.37 k	50.00 kHz	60.00 kHz	300.0 Hz	-50.69	(-43.69)	-55.38 k	-50.47	(-43.47)	54.54 k	8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	-	12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 kHz	10.00 kHz	300.0 Hz	16.82	(-6.24)	-2.156 k	16.79	(-6.27)	2.874 k																																																										
10.00 kHz	20.00 kHz	300.0 Hz	-20.88	(-17.44)	-10.00 k	-12.32	(-8.88)	10.30 k																																																										
20.00 kHz	50.00 kHz	300.0 Hz	-53.33	(-39.89)	-20.00 k	-51.19	(-37.75)	20.37 k																																																										
50.00 kHz	60.00 kHz	300.0 Hz	-50.69	(-43.69)	-55.38 k	-50.47	(-43.47)	54.54 k																																																										
8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	-																																																										
12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-																																																										



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-AWL	FM	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 156.025000 MHz Center Freq: 156.025000 MHz Radio Std: None</p> <p>Trig: Free Run #Atten: 40 dB Radio Device: BTS</p> <p>Ref Offset 26 dB Ref 20.0 dBm</p> <p>Center 156 MHz Span 120 kHz</p> <p>Total Power Ref 14.08 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>10.00 kHz</td> <td>300.0 Hz</td> <td>-9.438</td> <td>(-25.53)</td> <td>0.0</td> <td>14.37</td> <td>(-1.72)</td> <td>359.3</td> </tr> <tr> <td>10.00 kHz</td> <td>20.00 kHz</td> <td>300.0 Hz</td> <td>-47.98</td> <td>(-37.57)</td> <td>-10.00 k</td> <td>-52.03</td> <td>(-41.62)</td> <td>13.84 k</td> </tr> <tr> <td>20.00 kHz</td> <td>50.00 kHz</td> <td>300.0 Hz</td> <td>-52.49</td> <td>(-32.08)</td> <td>-27.75 k</td> <td>-52.26</td> <td>(-31.85)</td> <td>23.13 k</td> </tr> <tr> <td>50.00 kHz</td> <td>60.00 kHz</td> <td>300.0 Hz</td> <td>-55.43</td> <td>(-42.43)</td> <td>-50.53 k</td> <td>-54.88</td> <td>(-41.88)</td> <td>54.90 k</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	10.00 kHz	300.0 Hz	-9.438	(-25.53)	0.0	14.37	(-1.72)	359.3	10.00 kHz	20.00 kHz	300.0 Hz	-47.98	(-37.57)	-10.00 k	-52.03	(-41.62)	13.84 k	20.00 kHz	50.00 kHz	300.0 Hz	-52.49	(-32.08)	-27.75 k	-52.26	(-31.85)	23.13 k	50.00 kHz	60.00 kHz	300.0 Hz	-55.43	(-42.43)	-50.53 k	-54.88	(-41.88)	54.90 k	8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	-	12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	10.00 kHz	300.0 Hz	-9.438	(-25.53)	0.0	14.37	(-1.72)	359.3																																																										
10.00 kHz	20.00 kHz	300.0 Hz	-47.98	(-37.57)	-10.00 k	-52.03	(-41.62)	13.84 k																																																										
20.00 kHz	50.00 kHz	300.0 Hz	-52.49	(-32.08)	-27.75 k	-52.26	(-31.85)	23.13 k																																																										
50.00 kHz	60.00 kHz	300.0 Hz	-55.43	(-42.43)	-50.53 k	-54.88	(-41.88)	54.90 k																																																										
8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	-																																																										
12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-																																																										
TX-AWL	FM	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 156.025000 MHz Center Freq: 156.025000 MHz Radio Std: None</p> <p>Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS</p> <p>Ref Offset 26 dB Ref 20.0 dBm</p> <p>Center 156 MHz Span 120 kHz</p> <p>Total Power Ref 14.00 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>10.00 kHz</td> <td>300.0 Hz</td> <td>9.650</td> <td>(9.44)</td> <td>-2.156 k</td> <td>9.580</td> <td>(6.51)</td> <td>2.814 k</td> </tr> <tr> <td>10.00 kHz</td> <td>20.00 kHz</td> <td>300.0 Hz</td> <td>-28.23</td> <td>(-17.82)</td> <td>-10.00 k</td> <td>-19.80</td> <td>(-9.49)</td> <td>10.30 k</td> </tr> <tr> <td>20.00 kHz</td> <td>50.00 kHz</td> <td>300.0 Hz</td> <td>-58.86</td> <td>(-36.45)</td> <td>-36.80 k</td> <td>-54.63</td> <td>(-34.21)</td> <td>20.43 k</td> </tr> <tr> <td>50.00 kHz</td> <td>60.00 kHz</td> <td>300.0 Hz</td> <td>-58.73</td> <td>(-45.73)</td> <td>-55.26 k</td> <td>-58.90</td> <td>(-45.90)</td> <td>51.49 k</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	10.00 kHz	300.0 Hz	9.650	(9.44)	-2.156 k	9.580	(6.51)	2.814 k	10.00 kHz	20.00 kHz	300.0 Hz	-28.23	(-17.82)	-10.00 k	-19.80	(-9.49)	10.30 k	20.00 kHz	50.00 kHz	300.0 Hz	-58.86	(-36.45)	-36.80 k	-54.63	(-34.21)	20.43 k	50.00 kHz	60.00 kHz	300.0 Hz	-58.73	(-45.73)	-55.26 k	-58.90	(-45.90)	51.49 k	8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	-	12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	10.00 kHz	300.0 Hz	9.650	(9.44)	-2.156 k	9.580	(6.51)	2.814 k																																																										
10.00 kHz	20.00 kHz	300.0 Hz	-28.23	(-17.82)	-10.00 k	-19.80	(-9.49)	10.30 k																																																										
20.00 kHz	50.00 kHz	300.0 Hz	-58.86	(-36.45)	-36.80 k	-54.63	(-34.21)	20.43 k																																																										
50.00 kHz	60.00 kHz	300.0 Hz	-58.73	(-45.73)	-55.26 k	-58.90	(-45.90)	51.49 k																																																										
8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	-																																																										
12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-																																																										
TX-AWL	FM	CH <sub>M</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 156.800000 MHz Center Freq: 156.800000 MHz Radio Std: None</p> <p>Trig: Free Run #Atten: 40 dB Radio Device: BTS</p> <p>Ref Offset 26 dB Ref 20.0 dBm</p> <p>Center 156.8 MHz Span 120 kHz</p> <p>Total Power Ref 14.13 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>10.00 kHz</td> <td>300.0 Hz</td> <td>-10.29</td> <td>(-26.31)</td> <td>0.0</td> <td>14.34</td> <td>(-1.68)</td> <td>359.3</td> </tr> <tr> <td>10.00 kHz</td> <td>20.00 kHz</td> <td>300.0 Hz</td> <td>-52.88</td> <td>(-42.40)</td> <td>-13.24 k</td> <td>-52.00</td> <td>(-41.52)</td> <td>10.06 k</td> </tr> <tr> <td>20.00 kHz</td> <td>50.00 kHz</td> <td>300.0 Hz</td> <td>-50.49</td> <td>(-30.01)</td> <td>-20.97 k</td> <td>-54.23</td> <td>(-33.75)</td> <td>42.01 k</td> </tr> <tr> <td>50.00 kHz</td> <td>60.00 kHz</td> <td>300.0 Hz</td> <td>-54.69</td> <td>(-41.69)</td> <td>-52.69 k</td> <td>-54.61</td> <td>(-41.61)</td> <td>51.49 k</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	10.00 kHz	300.0 Hz	-10.29	(-26.31)	0.0	14.34	(-1.68)	359.3	10.00 kHz	20.00 kHz	300.0 Hz	-52.88	(-42.40)	-13.24 k	-52.00	(-41.52)	10.06 k	20.00 kHz	50.00 kHz	300.0 Hz	-50.49	(-30.01)	-20.97 k	-54.23	(-33.75)	42.01 k	50.00 kHz	60.00 kHz	300.0 Hz	-54.69	(-41.69)	-52.69 k	-54.61	(-41.61)	51.49 k	8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	-	12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	10.00 kHz	300.0 Hz	-10.29	(-26.31)	0.0	14.34	(-1.68)	359.3																																																										
10.00 kHz	20.00 kHz	300.0 Hz	-52.88	(-42.40)	-13.24 k	-52.00	(-41.52)	10.06 k																																																										
20.00 kHz	50.00 kHz	300.0 Hz	-50.49	(-30.01)	-20.97 k	-54.23	(-33.75)	42.01 k																																																										
50.00 kHz	60.00 kHz	300.0 Hz	-54.69	(-41.69)	-52.69 k	-54.61	(-41.61)	51.49 k																																																										
8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	-																																																										
12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-																																																										



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-AWL	FM	CH <sub>M</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 156.800000 MHz Center Freq: 156.800000 MHz Radio Std: None</p> <p>Trig: Free Run Avg: 100.00% of 10</p> <p>Ref Offset 26 dB Ref 20.0 dBm</p> <p>Center 156.8 MHz Span 120 kHz</p> <p>Total Power Ref 13.94 dBm/0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 kHz</td> <td>10.00 kHz</td> <td>300.0 Hz</td> <td>9.560</td> <td>(-6.46)</td> <td>-2.156 k</td> <td>9.498</td> <td>(-6.52)</td> <td>2.754 k</td> </tr> <tr> <td>10.00 kHz</td> <td>20.00 kHz</td> <td>300.0 Hz</td> <td>-28.23</td> <td>(-17.75)</td> <td>-10.00 k</td> <td>-19.27</td> <td>(-8.79)</td> <td>10.30 k</td> </tr> <tr> <td>20.00 kHz</td> <td>50.00 kHz</td> <td>300.0 Hz</td> <td>-57.36</td> <td>(-36.88)</td> <td>-26.07 k</td> <td>-55.48</td> <td>(-35.00)</td> <td>20.31 k</td> </tr> <tr> <td>50.00 kHz</td> <td>60.00 kHz</td> <td>300.0 Hz</td> <td>-58.19</td> <td>(-45.19)</td> <td>-50.52 k</td> <td>-58.80</td> <td>(-45.80)</td> <td>59.70 k</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 kHz	10.00 kHz	300.0 Hz	9.560	(-6.46)	-2.156 k	9.498	(-6.52)	2.754 k	10.00 kHz	20.00 kHz	300.0 Hz	-28.23	(-17.75)	-10.00 k	-19.27	(-8.79)	10.30 k	20.00 kHz	50.00 kHz	300.0 Hz	-57.36	(-36.88)	-26.07 k	-55.48	(-35.00)	20.31 k	50.00 kHz	60.00 kHz	300.0 Hz	-58.19	(-45.19)	-50.52 k	-58.80	(-45.80)	59.70 k	8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	-	12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 kHz	10.00 kHz	300.0 Hz	9.560	(-6.46)	-2.156 k	9.498	(-6.52)	2.754 k																																																										
10.00 kHz	20.00 kHz	300.0 Hz	-28.23	(-17.75)	-10.00 k	-19.27	(-8.79)	10.30 k																																																										
20.00 kHz	50.00 kHz	300.0 Hz	-57.36	(-36.88)	-26.07 k	-55.48	(-35.00)	20.31 k																																																										
50.00 kHz	60.00 kHz	300.0 Hz	-58.19	(-45.19)	-50.52 k	-58.80	(-45.80)	59.70 k																																																										
8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	-																																																										
12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-																																																										
TX-AWL	FM	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 157.425000 MHz Center Freq: 157.425000 MHz Radio Std: None</p> <p>Trig: Free Run Avg: 100.00% of 10</p> <p>Ref Offset 26 dB Ref 20.0 dBm</p> <p>Center 157.4 MHz Span 120 kHz</p> <p>Total Power Ref 13.97 dBm/0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 kHz</td> <td>10.00 kHz</td> <td>300.0 Hz</td> <td>-9.786</td> <td>(-25.74)</td> <td>0.0</td> <td>14.39</td> <td>(-1.56)</td> <td>239.5</td> </tr> <tr> <td>10.00 kHz</td> <td>20.00 kHz</td> <td>300.0 Hz</td> <td>-50.32</td> <td>(-39.78)</td> <td>-10.36 k</td> <td>-51.85</td> <td>(-41.11)</td> <td>19.83 k</td> </tr> <tr> <td>20.00 kHz</td> <td>50.00 kHz</td> <td>300.0 Hz</td> <td>-54.80</td> <td>(-34.26)</td> <td>-27.87 k</td> <td>-53.91</td> <td>(-33.37)</td> <td>41.83 k</td> </tr> <tr> <td>50.00 kHz</td> <td>60.00 kHz</td> <td>300.0 Hz</td> <td>-55.05</td> <td>(-42.05)</td> <td>-55.26 k</td> <td>-54.28</td> <td>(-41.28)</td> <td>50.95 k</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 kHz	10.00 kHz	300.0 Hz	-9.786	(-25.74)	0.0	14.39	(-1.56)	239.5	10.00 kHz	20.00 kHz	300.0 Hz	-50.32	(-39.78)	-10.36 k	-51.85	(-41.11)	19.83 k	20.00 kHz	50.00 kHz	300.0 Hz	-54.80	(-34.26)	-27.87 k	-53.91	(-33.37)	41.83 k	50.00 kHz	60.00 kHz	300.0 Hz	-55.05	(-42.05)	-55.26 k	-54.28	(-41.28)	50.95 k	8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	-	12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 kHz	10.00 kHz	300.0 Hz	-9.786	(-25.74)	0.0	14.39	(-1.56)	239.5																																																										
10.00 kHz	20.00 kHz	300.0 Hz	-50.32	(-39.78)	-10.36 k	-51.85	(-41.11)	19.83 k																																																										
20.00 kHz	50.00 kHz	300.0 Hz	-54.80	(-34.26)	-27.87 k	-53.91	(-33.37)	41.83 k																																																										
50.00 kHz	60.00 kHz	300.0 Hz	-55.05	(-42.05)	-55.26 k	-54.28	(-41.28)	50.95 k																																																										
8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	-																																																										
12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-																																																										
TX-AWL	FM	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 157.425000 MHz Center Freq: 157.425000 MHz Radio Std: None</p> <p>Trig: Free Run Avg: 100.00% of 10</p> <p>Ref Offset 26 dB Ref 20.0 dBm</p> <p>Center 157.4 MHz Span 120 kHz</p> <p>Total Power Ref 13.85 dBm/0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 kHz</td> <td>10.00 kHz</td> <td>300.0 Hz</td> <td>9.476</td> <td>(-6.48)</td> <td>-2.156 k</td> <td>9.463</td> <td>(-6.49)</td> <td>2.874 k</td> </tr> <tr> <td>10.00 kHz</td> <td>20.00 kHz</td> <td>300.0 Hz</td> <td>-28.35</td> <td>(-17.80)</td> <td>-10.00 k</td> <td>-19.09</td> <td>(-8.55)</td> <td>10.30 k</td> </tr> <tr> <td>20.00 kHz</td> <td>50.00 kHz</td> <td>300.0 Hz</td> <td>-57.08</td> <td>(-36.54)</td> <td>-24.15 k</td> <td>-56.28</td> <td>(-35.73)</td> <td>21.03 k</td> </tr> <tr> <td>50.00 kHz</td> <td>60.00 kHz</td> <td>300.0 Hz</td> <td>-58.71</td> <td>(-45.71)</td> <td>-58.56 k</td> <td>-58.13</td> <td>(-45.13)</td> <td>55.92 k</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> <td>-</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 kHz	10.00 kHz	300.0 Hz	9.476	(-6.48)	-2.156 k	9.463	(-6.49)	2.874 k	10.00 kHz	20.00 kHz	300.0 Hz	-28.35	(-17.80)	-10.00 k	-19.09	(-8.55)	10.30 k	20.00 kHz	50.00 kHz	300.0 Hz	-57.08	(-36.54)	-24.15 k	-56.28	(-35.73)	21.03 k	50.00 kHz	60.00 kHz	300.0 Hz	-58.71	(-45.71)	-58.56 k	-58.13	(-45.13)	55.92 k	8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	-	12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 kHz	10.00 kHz	300.0 Hz	9.476	(-6.48)	-2.156 k	9.463	(-6.49)	2.874 k																																																										
10.00 kHz	20.00 kHz	300.0 Hz	-28.35	(-17.80)	-10.00 k	-19.09	(-8.55)	10.30 k																																																										
20.00 kHz	50.00 kHz	300.0 Hz	-57.08	(-36.54)	-24.15 k	-56.28	(-35.73)	21.03 k																																																										
50.00 kHz	60.00 kHz	300.0 Hz	-58.71	(-45.71)	-58.56 k	-58.13	(-45.13)	55.92 k																																																										
8.000 MHz	12.50 MHz	1.000 MHz	-	(-)	-	-	(-)	-																																																										
12.50 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)	-																																																										



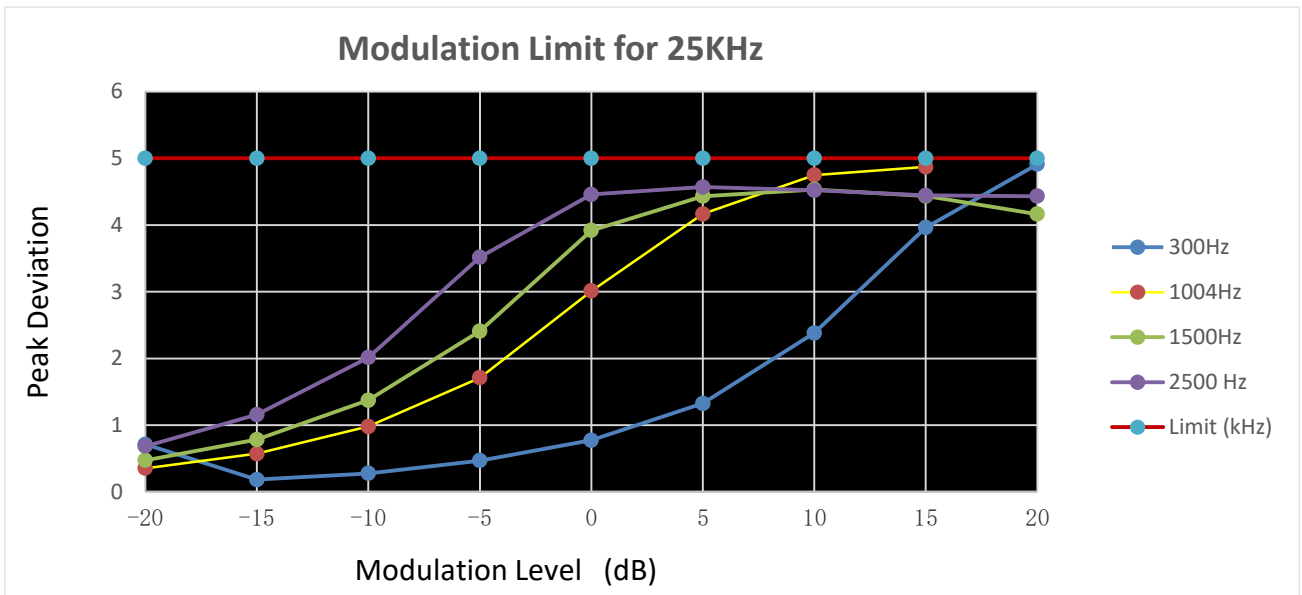
**Appendix D:Modulation Limit**

Operation Mode	Modulation Type	Test Channel	Modulation Level (dB)	Peak frequency deviation (kHz)				Limit (kHz)	Result
				300Hz	1004Hz	1500Hz	2500 Hz		
TX-AWH	FM	CH <sub>M</sub>	-20	0.71	0.353	0.473	0.685	5	PASS
TX-AWH	FM	CH <sub>M</sub>	-15	0.184	0.571	0.784	1.157	5	PASS
TX-AWH	FM	CH <sub>M</sub>	-10	0.276	0.981	1.374	2.015	5	PASS
TX-AWH	FM	CH <sub>M</sub>	-5	0.469	1.712	2.41	3.519	5	PASS
TX-AWH	FM	CH <sub>M</sub>	0	0.774	3.013	3.918	4.459	5	PASS
TX-AWH	FM	CH <sub>M</sub>	5	1.326	4.166	4.432	4.569	5	PASS
TX-AWH	FM	CH <sub>M</sub>	10	2.382	4.749	4.534	4.521	5	PASS
TX-AWH	FM	CH <sub>M</sub>	15	3.961	4.871	4.434	4.444	5	PASS
TX-AWH	FM	CH <sub>M</sub>	20	4.912	4.847	4.163	4.431	5	PASS



### Appendix D:Modulation Limit

## TEST PLOT RESULT



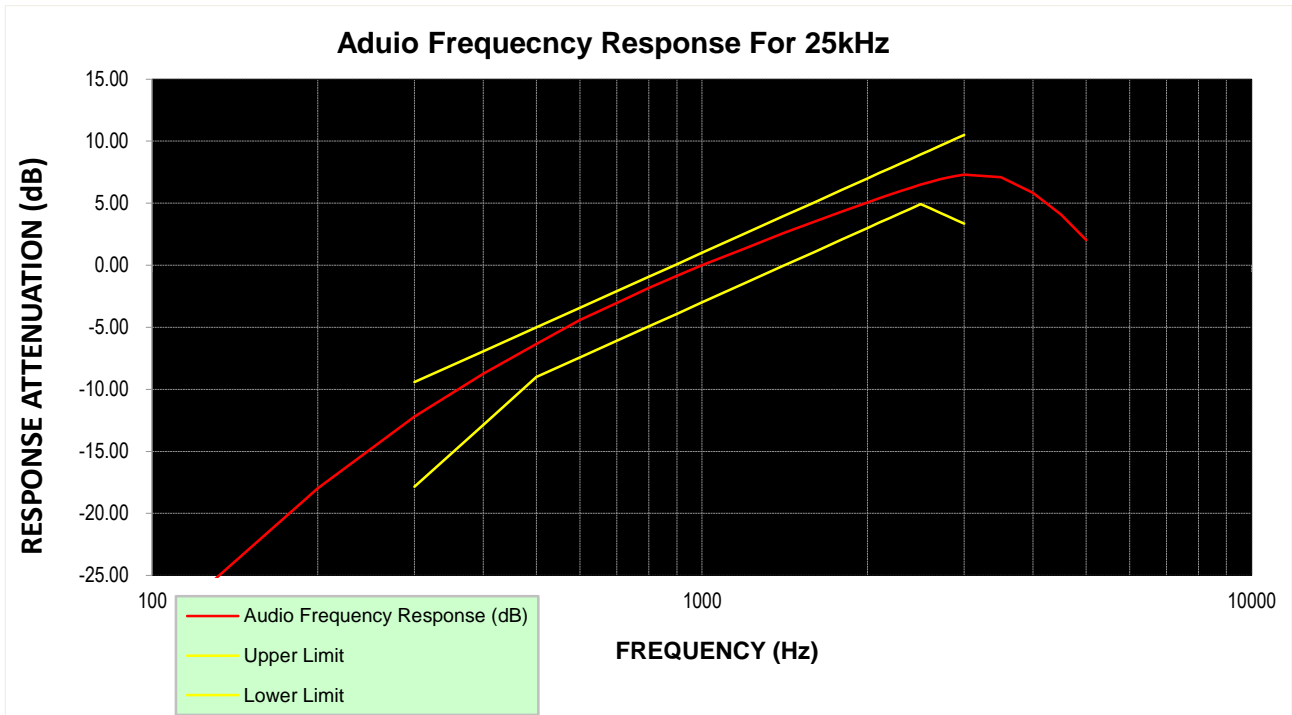
**Appendix E:Audio Frequency Response**

Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-AWH	FM	CH <sub>M</sub>	100	-29.77			PASS
TX-AWH	FM	CH <sub>M</sub>	200	-17.99			PASS
TX-AWH	FM	CH <sub>M</sub>	300	-12.19	-17.84	-9.42	PASS
TX-AWH	FM	CH <sub>M</sub>	400	-8.74	-12.86	-6.93	PASS
TX-AWH	FM	CH <sub>M</sub>	500	-6.36	-9.00	-5.00	PASS
TX-AWH	FM	CH <sub>M</sub>	600	-4.42	-7.42	-3.42	PASS
TX-AWH	FM	CH <sub>M</sub>	700	-3.05	-6.09	-2.09	PASS
TX-AWH	FM	CH <sub>M</sub>	800	-1.82	-4.93	-0.93	PASS
TX-AWH	FM	CH <sub>M</sub>	900	-0.86	-3.91	0.09	PASS
TX-AWH	FM	CH <sub>M</sub>	1000	0.01	-3.00	1.00	PASS
TX-AWH	FM	CH <sub>M</sub>	1200	1.38	-1.42	2.58	PASS
TX-AWH	FM	CH <sub>M</sub>	1400	2.55	-0.09	3.91	PASS
TX-AWH	FM	CH <sub>M</sub>	1600	3.51	1.07	5.07	PASS
TX-AWH	FM	CH <sub>M</sub>	1800	4.33	2.09	6.09	PASS
TX-AWH	FM	CH <sub>M</sub>	2000	5.07	3.00	7.00	PASS
TX-AWH	FM	CH <sub>M</sub>	2100	5.40	3.42	7.42	PASS
TX-AWH	FM	CH <sub>M</sub>	2200	5.70	3.83	7.83	PASS
TX-AWH	FM	CH <sub>M</sub>	2300	5.99	4.21	8.21	PASS
TX-AWH	FM	CH <sub>M</sub>	2400	6.25	4.58	8.58	PASS
TX-AWH	FM	CH <sub>M</sub>	2500	6.50	4.93	8.93	PASS
TX-AWH	FM	CH <sub>M</sub>	2600	6.72	4.59	9.27	PASS
TX-AWH	FM	CH <sub>M</sub>	2700	6.91	4.27	9.60	PASS
TX-AWH	FM	CH <sub>M</sub>	2800	7.07	3.95	9.91	PASS
TX-AWH	FM	CH <sub>M</sub>	2900	7.19	3.65	10.22	PASS
TX-AWH	FM	CH <sub>M</sub>	3000	7.29	3.35	10.51	PASS
TX-AWH	FM	CH <sub>M</sub>	3500	7.09			PASS
TX-AWH	FM	CH <sub>M</sub>	4000	5.84			PASS
TX-AWH	FM	CH <sub>M</sub>	4500	4.07			PASS
TX-AWH	FM	CH <sub>M</sub>	5000	2.04			PASS



### Appendix E:Aduio Frequency Response

## TEST PLOT RESULT



Note: The highest audio frequency response at 3kHz<3.125kHz, so meet the requirement.

**Appendix F:Audio Low Pass Filter Response**

Operation Mode	Modulation Type	Test Channel	Frequency (KHz)	dB relative to 1 KHz	Limit	Result
TX-AWH	FM	CH <sub>M</sub>	1	-16.67	0.00	PASS
TX-AWH	FM	CH <sub>M</sub>	3	-24.98	0.00	PASS
TX-AWH	FM	CH <sub>M</sub>	4	-38.86	-7.50	PASS
TX-AWH	FM	CH <sub>M</sub>	5	-52.74	-13.30	PASS
TX-AWH	FM	CH <sub>M</sub>	6	-57.69	-18.10	PASS
TX-AWH	FM	CH <sub>M</sub>	8	-58.89	-25.60	PASS
TX-AWH	FM	CH <sub>M</sub>	10	-58.82	-31.40	PASS
TX-AWH	FM	CH <sub>M</sub>	15	-58.87	-41.90	PASS
TX-AWH	FM	CH <sub>M</sub>	20	-58.83	-50.00	PASS
TX-AWH	FM	CH <sub>M</sub>	30	-58.79	-50.00	PASS
TX-AWH	FM	CH <sub>M</sub>	40	-58.79	-50.00	PASS
TX-AWH	FM	CH <sub>M</sub>	50	-58.79	-50.00	PASS
TX-AWH	FM	CH <sub>M</sub>	60	-58.79	-50.00	PASS
TX-AWH	FM	CH <sub>M</sub>	70	-58.79	-50.00	PASS
TX-AWH	FM	CH <sub>M</sub>	80	-58.79	-50.00	PASS
TX-AWH	FM	CH <sub>M</sub>	90	-58.79	-50.00	PASS
TX-AWH	FM	CH <sub>M</sub>	100	-58.79	-50.00	PASS



Appendix F:Audio Low Pass Filter Response

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																		
TX-AWH	FM	CH <sub>M</sub>	<p>The graph displays the audio low pass filter response for TX-AWH in FM mode on test channel CH<sub>M</sub>. The y-axis represents the gain in dB relative to 1 KHz, ranging from -70.00 to 10.00. The x-axis represents the frequency in KHz on a logarithmic scale from 1 to 100. A red line shows the measured response, and a yellow line shows the limit. The measured response starts at -15 dB at 1 KHz, drops to -25 dB at 2 KHz, then to -55 dB at 5 KHz, and levels off at -60 dB from 10 KHz to 100 KHz. The limit starts at 0 dB at 1 KHz, drops to -25 dB at 2 KHz, then to -50 dB at 10 KHz, and levels off at -50 dB from 10 KHz to 100 KHz.</p> <table border="1"><caption>Approximate data points from the filter response plot</caption><thead><tr><th>Frequency (KHz)</th><th>dB relative to 1 KHz (Measured)</th><th>dB relative to 1 KHz (Limit)</th></tr></thead><tbody><tr><td>1</td><td>-15</td><td>0</td></tr><tr><td>2</td><td>-25</td><td>-25</td></tr><tr><td>5</td><td>-55</td><td>-35</td></tr><tr><td>10</td><td>-60</td><td>-50</td></tr><tr><td>100</td><td>-60</td><td>-50</td></tr></tbody></table>	Frequency (KHz)	dB relative to 1 KHz (Measured)	dB relative to 1 KHz (Limit)	1	-15	0	2	-25	-25	5	-55	-35	10	-60	-50	100	-60	-50
Frequency (KHz)	dB relative to 1 KHz (Measured)	dB relative to 1 KHz (Limit)																			
1	-15	0																			
2	-25	-25																			
5	-55	-35																			
10	-60	-50																			
100	-60	-50																			

**Appendix G:Frequency Stability Test & Temperature**

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH <sub>L</sub>	CH <sub>M</sub>	CH <sub>H</sub>		
TX-AWH	FM	V <sub>N</sub>	-30	-1.658	-1.644	<b>-1.740</b>	±10	PASS
TX-AWH	FM	V <sub>N</sub>	-20	-1.519	-1.613	-1.602	±10	PASS
TX-AWH	FM	V <sub>N</sub>	-10	-1.490	-1.429	-1.570	±10	PASS
TX-AWH	FM	V <sub>N</sub>	0	-1.331	-1.307	-1.369	±10	PASS
TX-AWH	FM	V <sub>N</sub>	10	-1.182	-1.205	-1.188	±10	PASS
TX-AWH	FM	V <sub>N</sub>	20	-0.993	-1.021	-1.061	±10	PASS
TX-AWH	FM	V <sub>N</sub>	30	-1.211	-1.174	-1.273	±10	PASS
TX-AWH	FM	V <sub>N</sub>	40	-1.271	-1.307	-1.369	±10	PASS
TX-AWH	FM	V <sub>N</sub>	55	-1.400	-1.419	-1.454	±10	PASS
TX-AWL	FM	V <sub>N</sub>	-30	-1.600	-1.579	-1.592	±10	PASS
TX-AWL	FM	V <sub>N</sub>	-20	-1.527	-1.475	-1.486	±10	PASS
TX-AWL	FM	V <sub>N</sub>	-10	-1.414	-1.360	-1.412	±10	PASS
TX-AWL	FM	V <sub>N</sub>	0	-1.280	-1.255	-1.370	±10	PASS
TX-AWL	FM	V <sub>N</sub>	10	-1.218	-1.234	-1.244	±10	PASS
TX-AWL	FM	V <sub>N</sub>	20	-1.032	-1.046	-1.054	±10	PASS
TX-AWL	FM	V <sub>N</sub>	30	-1.269	-1.213	-1.286	±10	PASS
TX-AWL	FM	V <sub>N</sub>	40	-1.311	-1.308	-1.349	±10	PASS
TX-AWL	FM	V <sub>N</sub>	55	-1.455	-1.433	-1.476	±10	PASS

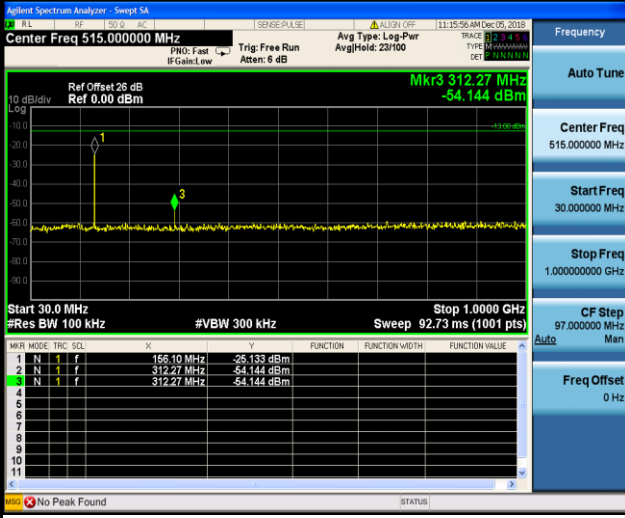
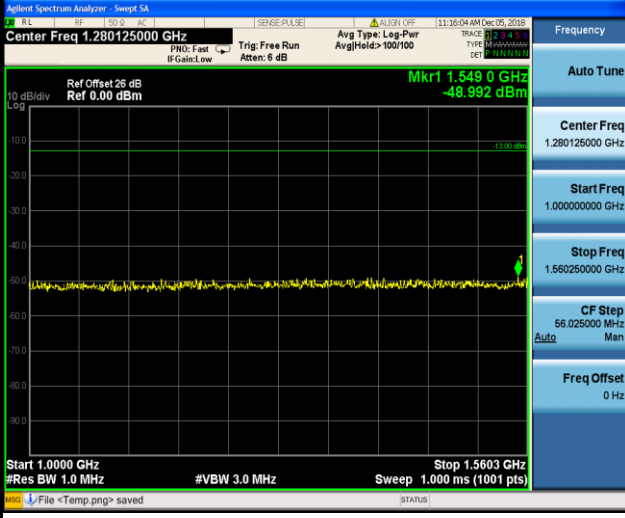
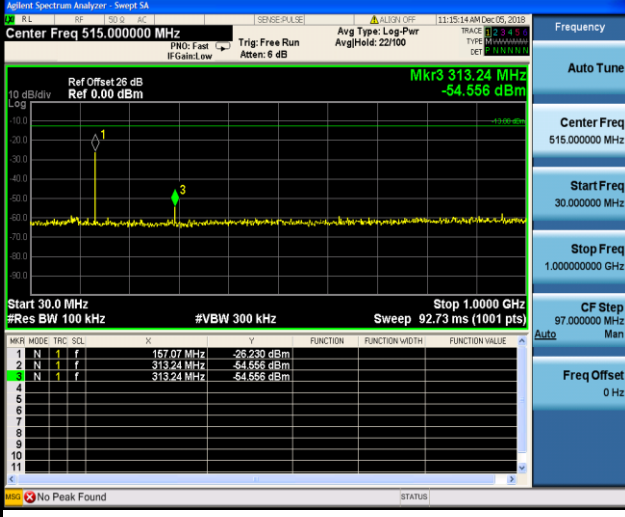
**Appendix H:Frequency Stability Test & Voltage**

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH <sub>L</sub>	CH <sub>M</sub>	CH <sub>H</sub>		
TX-AWH	FM	V <sub>N</sub>	T <sub>N</sub>	-0.993	-1.021	-1.061	±10	PASS
TX-AWH	FM	V <sub>L</sub>	T <sub>N</sub>	-1.483	-1.511	<u>-1.521</u>	±10	PASS
TX-AWH	FM	V <sub>H</sub>	T <sub>N</sub>	-1.223	-1.231	-1.261	±10	PASS
TX-AWL	FM	V <sub>N</sub>	T <sub>N</sub>	-1.032	-1.046	-1.054	±10	PASS
TX-AWL	FM	V <sub>L</sub>	T <sub>N</sub>	-1.282	-1.386	-1.404	±10	PASS
TX-AWL	FM	V <sub>H</sub>	T <sub>N</sub>	-1.212	-1.276	-1.274	±10	PASS



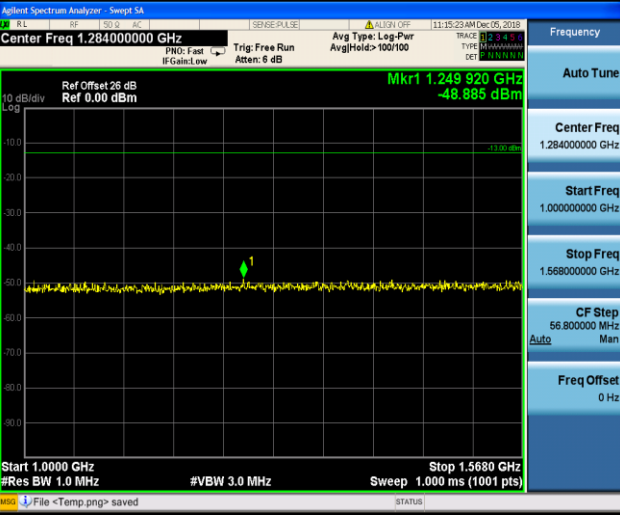
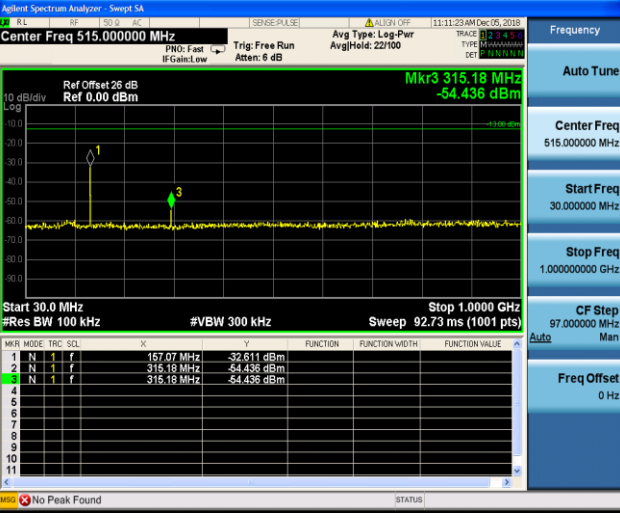
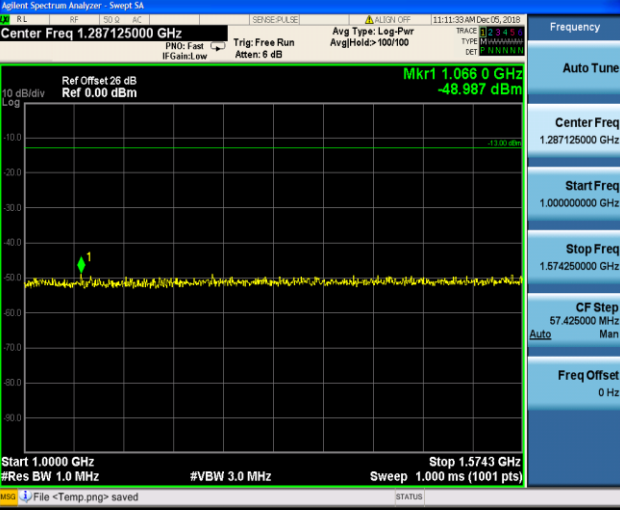


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWH	FM	CH <sub>L</sub>	 <p style="text-align: center;"><b>30MHz~1GHz</b></p>
TX-AWH	FM	CH <sub>L</sub>	 <p style="text-align: center;"><b>1GHz~10th Harmonic</b></p>
TX-AWH	FM	CH <sub>M</sub>	 <p style="text-align: center;"><b>30MHz~1GHz</b></p>



Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-AWH	FM	CH <sub>M</sub>	 <p style="text-align: center;">1GHz~10th Harmonic</p>
TX-AWH	FM	CH <sub>H</sub>	 <p style="text-align: center;">30MHz~1GHz</p>
TX-AWH	FM	CH <sub>H</sub>	 <p style="text-align: center;">1GHz~10th Harmonic</p>

----End of Report----