

Project No.	SHT2212063201EW		
Test sample No.	YPHT22120632006	Model No.	AWR-D5000
Start test date	2023/1/5	Finish date	2023/1/29
Temperature	22.7°C	Humidity	53%
Test Engineer	<i>Chunshui Gu</i>	Auditor	<i>Xiaolong Zhu</i>

Appendix clause	Test Item	Test Result (PASS/FAIL)
A	Maximum Transmitter Power	PASS
B	Occupied Bandwidth	PASS
C	Emission Mask	PASS
D	Modulation Limit	PASS
E	Audio Frequency Response	PASS
F	Frequency Stability Test & Temperature	PASS
G	Frequency Stability Test & Voltage	PASS
H	Transmitter Frequency Behavior	PASS
I	Spurious Emission On Antenna Port	PASS

**Appendix A:Maximum Transmitter Power**

Operation Mode	Modulation Type	Test Channel	Measured Power (dBm)	Measured Power(W)	Rated Power(W)	Percentage (%)	Limit (%)	Result
TX-DNH	4FSK	CH <sub>L</sub>	35.6	3.63	4.50	-19.3	±20	PASS
TX-DNH	4FSK	CH <sub>M</sub>	35.8	3.80	4.50	-15.6	±20	PASS
TX-DNH	4FSK	CH <sub>H</sub>	35.6	3.63	4.50	-19.3	±20	PASS
TX-DNL	4FSK	CH <sub>L</sub>	31.1	1.29	1.50	-14.0	±20	PASS
TX-DNL	4FSK	CH <sub>M</sub>	31.3	1.35	1.50	-10.0	±20	PASS
TX-DNL	4FSK	CH <sub>H</sub>	31.2	1.32	1.50	-12.0	±20	PASS
TX-ANH	FM	CH <sub>L</sub>	36.1	4.05	4.50	-10.0	±20	PASS
TX-ANH	FM	CH <sub>M</sub>	36.2	4.14	4.50	-8.0	±20	PASS
TX-ANH	FM	CH <sub>H</sub>	36.2	4.16	4.50	-7.6	±20	PASS
TX-ANL	FM	CH <sub>L</sub>	31.1	1.29	1.50	-14.0	±20	PASS
TX-ANL	FM	CH <sub>M</sub>	31.2	1.31	1.50	-12.7	±20	PASS
TX-ANL	FM	CH <sub>H</sub>	31.4	1.39	1.50	-7.3	±20	PASS

**Appendix B:Occupied Bandwidth**

Operation Mode	Modulation Type	Test Channel	Occupied Bandwidth		99% Limit(kHz)	Result
			99%(kHz)	26dB(kHz)		
TX-DNH	4FSK	CH <sub>L</sub>	7.552	9.675	≤ 11.25	PASS
TX-DNH	4FSK	CH <sub>M</sub>	7.774	9.847	≤ 11.25	PASS
TX-DNH	4FSK	CH <sub>H</sub>	7.578	9.529	≤ 11.25	PASS
TX-DNL	4FSK	CH <sub>L</sub>	7.747	9.808	≤ 11.25	PASS
TX-DNL	4FSK	CH <sub>M</sub>	7.482	9.575	≤ 11.25	PASS
TX-DNL	4FSK	CH <sub>H</sub>	7.860	9.970	≤ 11.25	PASS
TX-ANH	FM	CH <sub>L</sub>	5.176	10.060	≤ 11.25	PASS
TX-ANH	FM	CH <sub>M</sub>	5.168	10.020	≤ 11.25	PASS
TX-ANH	FM	CH <sub>H</sub>	5.148	5.258	≤ 11.25	PASS
TX-ANL	FM	CH <sub>L</sub>	5.167	10.030	≤ 11.25	PASS
TX-ANL	FM	CH <sub>M</sub>	5.174	10.030	≤ 11.25	PASS
TX-ANL	FM	CH <sub>H</sub>	5.166	5.241	≤ 11.25	PASS

**Appendix B:Occupied Bandwidth**

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 400.100000 MHz    Center Freq: 400.100000 MHz    Radio Std: None</p> <p>Trig: Free Run    AvgHold: 10/10</p> <p>#FGain: Low    #Atten: 32 dB    Radio Device: BTS</p> <p>10 dB/div    Ref 41.30 dBm</p> <p>Center 400.1 MHz    Span 50 kHz</p> <p>#Res BW 100 Hz    #VBW 300 Hz    Sweep FFT</p> <p>Occupied Bandwidth    Total Power    42.2 dBm</p> <p>7.552 kHz</p> <p>Transmit Freq Error    -77 Hz    OBW Power    99.00 %</p> <p>x dB Bandwidth    9.675 kHz    x dB    -26.00 dB</p> <p>Frequency: 400.100000 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p>
TX-DNH	4FSK	CH <sub>M</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 435.000000 MHz    Center Freq: 435.000000 MHz    Radio Std: None</p> <p>Trig: Free Run    AvgHold: 10/10</p> <p>#FGain: Low    #Atten: 30 dB    Radio Device: BTS</p> <p>10 dB/div    Ref 40.24 dBm</p> <p>Center 435 MHz    Span 50 kHz</p> <p>#Res BW 100 Hz    #VBW 300 Hz    Sweep FFT</p> <p>Occupied Bandwidth    Total Power    42.6 dBm</p> <p>7.774 kHz</p> <p>Transmit Freq Error    -152 Hz    OBW Power    99.00 %</p> <p>x dB Bandwidth    9.847 kHz    x dB    -26.00 dB</p> <p>Frequency: 435.000000 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p>
TX-DNH	4FSK	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 479.900000 MHz    Center Freq: 479.900000 MHz    Radio Std: None</p> <p>Trig: Free Run    AvgHold: 10/10</p> <p>#FGain: Low    #Atten: 30 dB    Radio Device: BTS</p> <p>10 dB/div    Ref 39.53 dBm</p> <p>Center 479.9 MHz    Span 50 kHz</p> <p>#Res BW 100 Hz    #VBW 300 Hz    Sweep FFT</p> <p>Occupied Bandwidth    Total Power    42.5 dBm</p> <p>7.578 kHz</p> <p>Transmit Freq Error    -228 Hz    OBW Power    99.00 %</p> <p>x dB Bandwidth    9.529 kHz    x dB    -26.00 dB</p> <p>Frequency: 479.900000 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p>

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 400.100000 MHz</p> <p>Occupied Bandwidth 7.747 kHz</p> <p>Total Power 38.0 dBm</p> <p>Transmit Freq Error -212 Hz</p> <p>x dB Bandwidth 9.808 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB -26.00 dB</p>
TX-DNL	4FSK	CH <sub>M</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 435.000000 MHz</p> <p>Occupied Bandwidth 7.482 kHz</p> <p>Total Power 38.0 dBm</p> <p>Transmit Freq Error -167 Hz</p> <p>x dB Bandwidth 9.575 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB -26.00 dB</p>
TX-DNL	4FSK	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 479.900000 MHz</p> <p>Occupied Bandwidth 7.860 kHz</p> <p>Total Power 37.9 dBm</p> <p>Transmit Freq Error -242 Hz</p> <p>x dB Bandwidth 9.970 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB -26.00 dB</p>

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 400.100000 MHz</p> <p>Occupied Bandwidth 5.176 kHz</p> <p>Total Power 35.4 dBm</p> <p>Transmit Freq Error 25 Hz</p> <p>x dB Bandwidth 10.06 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB -26.00 dB</p>
TX-ANH	FM	CH <sub>M</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 435.000000 MHz</p> <p>Occupied Bandwidth 5.168 kHz</p> <p>Total Power 35.1 dBm</p> <p>Transmit Freq Error -12 Hz</p> <p>x dB Bandwidth 10.02 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB -26.00 dB</p>
TX-ANH	FM	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 479.900000 MHz</p> <p>Occupied Bandwidth 5.148 kHz</p> <p>Total Power 34.7 dBm</p> <p>Transmit Freq Error -51 Hz</p> <p>x dB Bandwidth 5.258 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB -26.00 dB</p>

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 400.100000 MHz</p> <p>Occupied Bandwidth: 5.167 kHz</p> <p>Total Power: 29.9 dBm</p> <p>Transmit Freq Error: 11 Hz</p> <p>x dB Bandwidth: 10.03 kHz</p>
TX-ANL	FM	CH <sub>M</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 435.000000 MHz</p> <p>Occupied Bandwidth: 5.174 kHz</p> <p>Total Power: 30.6 dBm</p> <p>Transmit Freq Error: -22 Hz</p> <p>x dB Bandwidth: 10.03 kHz</p>
TX-ANL	FM	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 479.900000 MHz</p> <p>Occupied Bandwidth: 5.166 kHz</p> <p>Total Power: 30.5 dBm</p> <p>Transmit Freq Error: -34 Hz</p> <p>x dB Bandwidth: 5.241 kHz</p>

**Appendix C:Emission Mask**

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 400.100000 MHz   Center Freq: 400.100000 MHz   Radio Std: None</p> <p>Ref Offset 21 dB   Ref 40.0 dBm</p> <p>Total Power Ref 35.45 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>Upper Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>34.31</td> <td>(-2.09)</td> <td>0.0</td> <td>35.48</td> <td>(-0.92)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-39.09</td> <td>(8.60)</td> <td>-12.15 k</td> <td>-38.70</td> <td>(-5.48)</td> <td>12.25 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-36.37</td> <td>(-16.37)</td> <td>-13.85 k</td> <td>-36.33</td> <td>(-16.33)</td> <td>13.95 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</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)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	34.31	(-2.09)	0.0	35.48	(-0.92)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-39.09	(8.60)	-12.15 k	-38.70	(-5.48)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.37	(-16.37)	-13.85 k	-36.33	(-16.33)	13.95 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH <sub>M</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 435.000000 MHz</p> <p>Ref Offset 21 dB Ref 40.0 dBm</p> <p>Total Power Ref 40.12 dBm @ 0.125 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>5.625 kHz</td> <td>100.0 Hz</td> <td>27.67</td> <td>(-8.57)</td> <td>-600.0</td> <td>27.39</td> <td>(-8.85)</td> <td>250.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-38.41</td> <td>(-13.21)</td> <td>-12.50 k</td> <td>-37.48</td> <td>(-12.28)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-35.81</td> <td>(-15.81)</td> <td>-13.15 k</td> <td>-36.00</td> <td>(-16.00)</td> <td>12.85 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</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	5.625 kHz	100.0 Hz	27.67	(-8.57)	-600.0	27.39	(-8.85)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.41	(-13.21)	-12.50 k	-37.48	(-12.28)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.81	(-15.81)	-13.15 k	-36.00	(-16.00)	12.85 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNH	4FSK	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 479.900000 MHz</p> <p>Ref Offset 21 dB Ref 40.0 dBm</p> <p>Total Power Ref 35.40 dBm @ 0.125 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>5.625 kHz</td> <td>100.0 Hz</td> <td>34.34</td> <td>(-1.94)</td> <td>0.0</td> <td>35.43</td> <td>(-0.85)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-40.95</td> <td>(-6.88)</td> <td>-12.35 k</td> <td>-40.53</td> <td>(-5.73)</td> <td>12.45 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-38.12</td> <td>(-18.12)</td> <td>-13.15 k</td> <td>-38.78</td> <td>(-18.78)</td> <td>13.25 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</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	5.625 kHz	100.0 Hz	34.34	(-1.94)	0.0	35.43	(-0.85)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-40.95	(-6.88)	-12.35 k	-40.53	(-5.73)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.12	(-18.12)	-13.15 k	-38.78	(-18.78)	13.25 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNL	4FSK	CH <sub>L</sub>	<p><b>Agilent Spectrum Analyzer - Spectrum Emission Mask</b>                  Center Freq 400.100000 MHz                  Ref Offset 22 dB                  Ref 35.0 dBm                  Total Power Ref 30.34 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>Peak Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>24.88</td> <td>(-6.51)</td> <td>0.0</td> <td>29.78</td> <td>(-1.61)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-42.72</td> <td>(-2.67)</td> <td>-12.50 k</td> <td>-45.43</td> <td>(-6.11)</td> <td>12.40 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-44.60</td> <td>(-24.00)</td> <td>-17.05 k</td> <td>-44.73</td> <td>(-24.73)</td> <td>17.15 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</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)	Peak Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	24.88	(-6.51)	0.0	29.78	(-1.61)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-42.72	(-2.67)	-12.50 k	-45.43	(-6.11)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-44.60	(-24.00)	-17.05 k	-44.73	(-24.73)	17.15 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNL	4FSK	CH <sub>M</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 435.000000 MHz   Center Freq: 435.000000 MHz   Radio Std: None</p> <p>Ref Offset 22 dB   Ref 36.0 dBm</p> <p>Total Power Ref 35.37 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 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>22.29</td> <td>(-9.73)</td> <td>-600.0</td> <td>22.81</td> <td>(-9.21)</td> <td>550.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-40.33</td> <td>(-4.19)</td> <td>-12.05 k</td> <td>-40.46</td> <td>(-3.96)</td> <td>12.10 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-40.42</td> <td>(-20.42)</td> <td>-16.00 k</td> <td>-40.07</td> <td>(-20.07)</td> <td>13.10 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</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 Hz	5.625 kHz	100.0 Hz	22.29	(-9.73)	-600.0	22.81	(-9.21)	550.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.33	(-4.19)	-12.05 k	-40.46	(-3.96)	12.10 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.42	(-20.42)	-16.00 k	-40.07	(-20.07)	13.10 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNL	4FSK	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 479.900000 MHz   Center Freq: 479.900000 MHz   Radio Std: None</p> <p>Ref Offset 22 dB   Ref 35.0 dBm</p> <p>Total Power Ref 30.54 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 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>24.29</td> <td>(-7.15)</td> <td>0.0</td> <td>29.99</td> <td>(-1.45)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-48.05</td> <td>(-8.41)</td> <td>-12.45 k</td> <td>-43.97</td> <td>(-6.52)</td> <td>12.15 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-43.73</td> <td>(-23.73)</td> <td>-12.60 k</td> <td>-43.58</td> <td>(-23.58)</td> <td>13.05 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</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 Hz	5.625 kHz	100.0 Hz	24.29	(-7.15)	0.0	29.99	(-1.45)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-48.05	(-8.41)	-12.45 k	-43.97	(-6.52)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.73	(-23.73)	-12.60 k	-43.58	(-23.58)	13.05 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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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-ANH	FM	CH <sub>M</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 435.000000 MHz</p> <p>Ref Offset 21 dB Ref 41.0 dBm</p> <p>Total Power Ref 35.90 dBm @ 0.125 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>Peak Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>34.70</td> <td>(-1.81)</td> <td>-50.00</td> <td>34.69</td> <td>(-1.82)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-37.15</td> <td>(-3.31)</td> <td>-12.35 k</td> <td>-35.81</td> <td>(-1.61)</td> <td>12.40 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-35.77</td> <td>(-15.77)</td> <td>-12.50 k</td> <td>-37.14</td> <td>(-17.14)</td> <td>13.55 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</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)	Peak Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	34.70	(-1.81)	-50.00	34.69	(-1.82)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.15	(-3.31)	-12.35 k	-35.81	(-1.61)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.77	(-15.77)	-12.50 k	-37.14	(-17.14)	13.55 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANH	FM	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 479.900000 MHz</p> <p>Ref Offset 21 dB Ref 40.0 dBm</p> <p>Total Power Ref 35.50 dBm @ 0.125 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>Peak Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>35.31</td> <td>(-1.17)</td> <td>-100.0</td> <td>31.18</td> <td>(-5.31)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-37.60</td> <td>(-4.47)</td> <td>-12.25 k</td> <td>-37.86</td> <td>(-5.82)</td> <td>12.10 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-37.10</td> <td>(-17.10)</td> <td>-12.95 k</td> <td>-36.86</td> <td>(-16.86)</td> <td>12.80 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</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)	Peak Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.31	(-1.17)	-100.0	31.18	(-5.31)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.60	(-4.47)	-12.25 k	-37.86	(-5.82)	12.10 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.10	(-17.10)	-12.95 k	-36.86	(-16.86)	12.80 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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