

Project No.	SHT2304092101EW		
Test sample No.	YPHT23040921001	Model No.	GOI-VHF
Start test date	2023/5/12	Finish date	2023/5/25
Temperature	24.4°C	Humidity	47%
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 _L	36.1	4.07	5.00	-18.6	±20	PASS
TX-DNH	4FSK	CH _M	36.6	4.57	5.00	-8.6	±20	PASS
TX-DNH	4FSK	CH _H	36.1	4.07	5.00	-18.6	±20	PASS
TX-DNL	4FSK	CH _L	29.1	0.81	1.00	-19.0	±20	PASS
TX-DNL	4FSK	CH _M	29.1	0.81	1.00	-19.0	±20	PASS
TX-DNL	4FSK	CH _H	29.2	0.83	1.00	-17.0	±20	PASS
TX-ANH	FM	CH _L	37.4	5.50	5.00	10.0	±20	PASS
TX-ANH	FM	CH _M	37.6	5.78	5.00	15.6	±20	PASS
TX-ANH	FM	CH _H	37.5	5.56	5.00	11.2	±20	PASS
TX-ANL	FM	CH _L	30.3	1.06	1.00	6.0	±20	PASS
TX-ANL	FM	CH _M	30.0	1.00	1.00	0.0	±20	PASS
TX-ANL	FM	CH _H	30.3	1.07	1.00	7.0	±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 _L	7.569	9.836	≤11.25	PASS
TX-DNH	4FSK	CH _M	7.669	9.751	≤11.25	PASS
TX-DNH	4FSK	CH _H	7.548	9.542	≤11.25	PASS
TX-DNL	4FSK	CH _L	7.627	9.322	≤11.25	PASS
TX-DNL	4FSK	CH _M	7.563	9.586	≤11.25	PASS
TX-DNL	4FSK	CH _H	7.634	9.693	≤11.25	PASS
TX-ANH	FM	CH _L	5.231	10.110	≤11.25	PASS
TX-ANH	FM	CH _M	5.218	10.110	≤11.25	PASS
TX-ANH	FM	CH _H	6.611	10.120	≤11.25	PASS
TX-ANL	FM	CH _L	5.245	10.110	≤11.25	PASS
TX-ANL	FM	CH _M	5.220	10.110	≤11.25	PASS
TX-ANL	FM	CH _H	5.245	10.110	≤11.25	PASS

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 136.100000 MHz</p> <p>Occupied Bandwidth: 7.569 kHz</p> <p>Total Power: 45.0 dBm</p> <p>Transmit Freq Error: 75 Hz</p> <p>x dB Bandwidth: 9.836 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB: -26.00 dB</p>
TX-DNH	4FSK	CH _M	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 155.000000 MHz</p> <p>Occupied Bandwidth: 7.669 kHz</p> <p>Total Power: 45.1 dBm</p> <p>Transmit Freq Error: 128 Hz</p> <p>x dB Bandwidth: 9.751 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB: -26.00 dB</p>
TX-DNH	4FSK	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 173.900000 MHz</p> <p>Occupied Bandwidth: 7.548 kHz</p> <p>Total Power: 45.0 dBm</p> <p>Transmit Freq Error: 80 Hz</p> <p>x dB Bandwidth: 9.542 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-DNL	4FSK	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 136.100000 MHz</p> <p>Center Freq: 136.100000 MHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 10/10</p> <p>Radio Std: None</p> <p>#IF Gain: Low</p> <p>#Atten: 26 dB</p> <p>Radio Device: BTS</p> <p>10 dB/div Ref 34.95 dBm</p> <p>Center 136.1 MHz</p> <p>#Res BW 100 Hz</p> <p>#VBW 300 Hz</p> <p>Span 50 kHz</p> <p>Sweep FFT</p> <p>Occupied Bandwidth 7.627 kHz</p> <p>Total Power 38.0 dBm</p> <p>Transmit Freq Error 99 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 9.322 kHz</p> <p>x dB -26.00 dB</p> <p>Frequency</p> <p>Center Freq 136.100000 MHz</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p>
TX-DNL	4FSK	CH _M	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 155.000000 MHz</p> <p>Center Freq: 155.000000 MHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 10/10</p> <p>Radio Std: None</p> <p>#IF Gain: Low</p> <p>#Atten: 24 dB</p> <p>Radio Device: BTS</p> <p>10 dB/div Ref 34.80 dBm</p> <p>Center 155 MHz</p> <p>#Res BW 100 Hz</p> <p>#VBW 300 Hz</p> <p>Span 50 kHz</p> <p>Sweep FFT</p> <p>Occupied Bandwidth 7.563 kHz</p> <p>Total Power 38.0 dBm</p> <p>Transmit Freq Error 67 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 9.586 kHz</p> <p>x dB -26.00 dB</p> <p>Frequency</p> <p>Center Freq 155.000000 MHz</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p>
TX-DNL	4FSK	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 173.900000 MHz</p> <p>Center Freq: 173.900000 MHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 10/10</p> <p>Radio Std: None</p> <p>#IF Gain: Low</p> <p>#Atten: 24 dB</p> <p>Radio Device: BTS</p> <p>10 dB/div Ref 34.85 dBm</p> <p>Center 173.9 MHz</p> <p>#Res BW 100 Hz</p> <p>#VBW 300 Hz</p> <p>Span 50 kHz</p> <p>Sweep FFT</p> <p>Occupied Bandwidth 7.634 kHz</p> <p>Total Power 38.0 dBm</p> <p>Transmit Freq Error 98 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 9.693 kHz</p> <p>x dB -26.00 dB</p> <p>Frequency</p> <p>Center Freq 173.900000 MHz</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p>

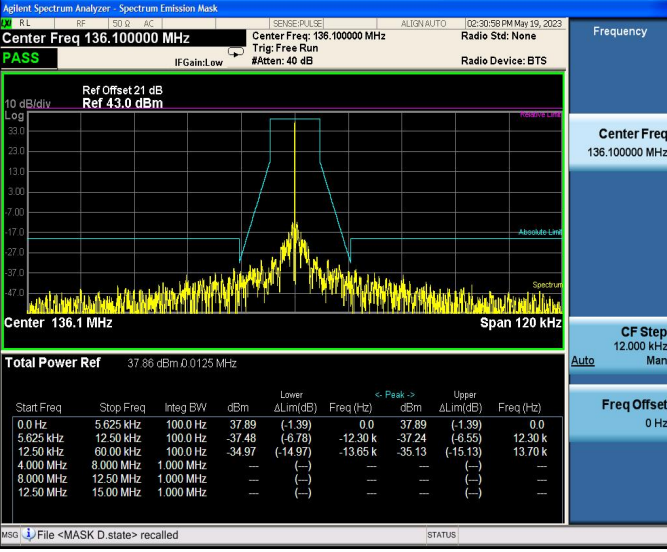
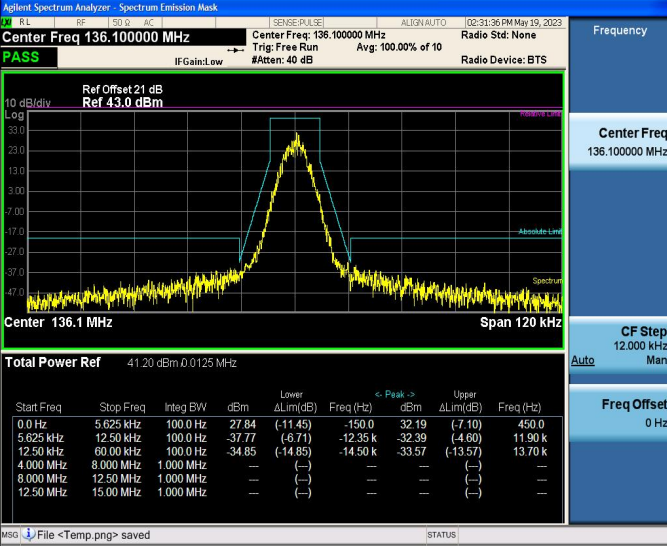
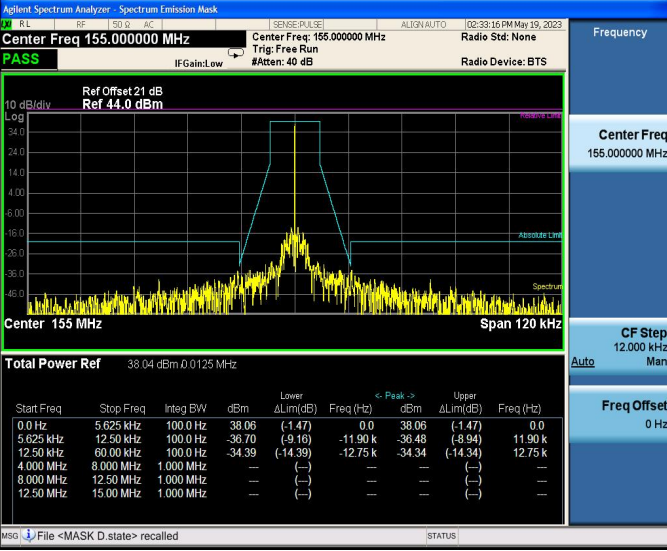
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 136.100000 MHz Center Freq: 136.100000 MHz Radio Std: None</p> <p>Trig: Free Run Avg/Hold: 10/10</p> <p>#IFGain:Low #Atten: 32 dB Radio Device: BTS</p> <p>10 dB/div Ref 41.94 dBm</p> <p>Center 136.1 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 38.0 dBm</p> <p>5.231 kHz</p> <p>Transmit Freq Error 12 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 10.11 kHz x dB -26.00 dB</p>
TX-ANH	FM	CH _M	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 155.000000 MHz Center Freq: 155.000000 MHz Radio Std: None</p> <p>Trig: Free Run Avg/Hold: 10/10</p> <p>#IFGain:Low #Atten: 32 dB Radio Device: BTS</p> <p>10 dB/div Ref 42.14 dBm</p> <p>Center 155 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 38.3 dBm</p> <p>5.218 kHz</p> <p>Transmit Freq Error 16 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 10.11 kHz x dB -26.00 dB</p>
TX-ANH	FM	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 173.900000 MHz Center Freq: 173.900000 MHz Radio Std: None</p> <p>Trig: Free Run Avg/Hold: 10/10</p> <p>#IFGain:Low #Atten: 32 dB Radio Device: BTS</p> <p>10 dB/div Ref 41.80 dBm</p> <p>Center 173.9 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 38.0 dBm</p> <p>6.611 kHz</p> <p>Transmit Freq Error 655 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 10.12 kHz x dB -26.00 dB</p>

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 136.100000 MHz Center Freq: 136.100000 MHz Radio Std: None</p> <p>Trig: Free Run Avg/Hold: 10/10</p> <p>#IF Gain: Low #Atten: 26 dB Radio Device: BTS</p> <p>10 dB/div Ref 34.91 dBm</p> <p>Center 136.1 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 31.0 dBm</p> <p>5.245 kHz</p> <p>Transmit Freq Error 19 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 10.11 kHz x dB -26.00 dB</p>
TX-ANL	FM	CH _M	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 155.000000 MHz Center Freq: 155.000000 MHz Radio Std: None</p> <p>Trig: Free Run Avg/Hold: 10/10</p> <p>#IF Gain: Low #Atten: 24 dB Radio Device: BTS</p> <p>10 dB/div Ref 34.79 dBm</p> <p>Center 155 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 30.9 dBm</p> <p>5.220 kHz</p> <p>Transmit Freq Error 15 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 10.11 kHz x dB -26.00 dB</p>
TX-ANL	FM	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 173.900000 MHz Center Freq: 173.900000 MHz Radio Std: None</p> <p>Trig: Free Run Avg/Hold: 10/10</p> <p>#IF Gain: Low #Atten: 24 dB Radio Device: BTS</p> <p>10 dB/div Ref 34.87 dBm</p> <p>Center 173.9 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 31.0 dBm</p> <p>5.245 kHz</p> <p>Transmit Freq Error 22 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 10.11 kHz x dB -26.00 dB</p>

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _L	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 136.100000 MHz Center Freq: 136.100000 MHz Radio Std: None</p> <p>IF Gain: Low #Atten: 40 dB Radio Device: BTS</p> <p>Ref Offset 21 dB Ref 43.0 dBm</p> <p>Center 136.1 MHz Span 120 kHz</p> <p>Total Power Ref 37.86 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>< Peak > 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>37.89</td> <td>(-1.39)</td> <td>0.0</td> <td>37.89</td> <td>(-1.39)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-37.48</td> <td>(-6.78)</td> <td>-12.20 k</td> <td>-37.24</td> <td>(-6.55)</td> <td>12.20 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-34.97</td> <td>(-14.97)</td> <td>-13.65 k</td> <td>-35.13</td> <td>(-15.13)</td> <td>13.70 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)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	37.89	(-1.39)	0.0	37.89	(-1.39)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.48	(-6.78)	-12.20 k	-37.24	(-6.55)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.97	(-14.97)	-13.65 k	-35.13	(-15.13)	13.70 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 _M	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 155.000000 MHz Center Freq: 155.000000 MHz Radio Std: None</p> <p>Ref Offset 21 dB Ref 44.0 dBm</p> <p>Total Power Ref 41.41 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>< Peak > 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>28.97</td> <td>(-10.57)</td> <td>-1.300 k</td> <td>32.50</td> <td>(-7.03)</td> <td>700.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-33.18</td> <td>(-2.37)</td> <td>-12.35 k</td> <td>-34.34</td> <td>(-2.80)</td> <td>12.46 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-34.39</td> <td>(-14.39)</td> <td>-13.90 k</td> <td>-33.14</td> <td>(-13.14)</td> <td>15.35 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)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	28.97	(-10.57)	-1.300 k	32.50	(-7.03)	700.0	5.625 kHz	12.50 kHz	100.0 Hz	-33.18	(-2.37)	-12.35 k	-34.34	(-2.80)	12.46 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.39	(-14.39)	-13.90 k	-33.14	(-13.14)	15.35 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 _H	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 173.900000 MHz Center Freq: 173.900000 MHz Radio Std: None</p> <p>Ref Offset 21 dB Ref 43.0 dBm</p> <p>Total Power Ref 37.85 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>< Peak > 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>37.84</td> <td>(-1.53)</td> <td>0.0</td> <td>37.84</td> <td>(-1.53)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-39.81</td> <td>(-10.28)</td> <td>-12.15 k</td> <td>-39.52</td> <td>(-9.99)</td> <td>12.15 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-34.71</td> <td>(-14.71)</td> <td>-13.20 k</td> <td>-34.76</td> <td>(-14.76)</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)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	37.84	(-1.53)	0.0	37.84	(-1.53)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-39.81	(-10.28)	-12.15 k	-39.52	(-9.99)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.71	(-14.71)	-13.20 k	-34.76	(-14.76)	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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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _L	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 136.100000 MHz</p> <p>Ref Offset 21 dB Ref 36.0 dBm</p> <p>Total Power Ref 30.99 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>5.625 kHz</td> <td>100.0 Hz</td> <td>31.01</td> <td>(-1.40)</td> <td>0.0</td> <td>31.01</td> <td>(-1.40)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-44.80</td> <td>(-5.77)</td> <td>-12.90 k</td> <td>-44.49</td> <td>(-5.48)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-43.60</td> <td>(-23.60)</td> <td>-17.15 k</td> <td>-43.70</td> <td>(-23.70)</td> <td>17.20 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)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	31.01	(-1.40)	0.0	31.01	(-1.40)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-44.80	(-5.77)	-12.90 k	-44.49	(-5.48)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.60	(-23.60)	-17.15 k	-43.70	(-23.70)	17.20 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 _M	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 155.000000 MHz</p> <p>Ref Offset 22 dB Ref 37.0 dBm</p> <p>Total Power Ref 31.62 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>5.625 kHz</td> <td>100.0 Hz</td> <td>31.40</td> <td>(-1.68)</td> <td>0.0</td> <td>31.44</td> <td>(-1.64)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-40.31</td> <td>(-5.59)</td> <td>-12.00 k</td> <td>-39.38</td> <td>(-4.66)</td> <td>12.00 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-40.77</td> <td>(-20.77)</td> <td>-32.00 k</td> <td>-40.97</td> <td>(-20.97)</td> <td>16.20 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)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	31.40	(-1.68)	0.0	31.44	(-1.64)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-40.31	(-5.59)	-12.00 k	-39.38	(-4.66)	12.00 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.77	(-20.77)	-32.00 k	-40.97	(-20.97)	16.20 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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12.50 kHz	60.00 kHz	100.0 Hz	-40.77	(-20.77)	-32.00 k	-40.97	(-20.97)	16.20 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	—	(—)	—	—	(—)	—																																																										

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _M	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 155.000000 MHz Center Freq: 155.000000 MHz Radio Std: None</p> <p>Trig: Free Run Avg: 100.00% of 10</p> <p>IF Gain: Low #Atten: 40 dB Radio Device: BTS</p> <p>Ref Offset 22 dB Ref 37.0 dBm</p> <p>Center 155 MHz Span 120 kHz</p> <p>Total Power Ref 35.07 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>21.12</td> <td>(-11.96)</td> <td>-1.000 k</td> <td>21.87</td> <td>(-11.20)</td> <td>1.050 k</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-40.29</td> <td>(-3.38)</td> <td>-12.20 k</td> <td>-41.55</td> <td>(-3.55)</td> <td>12.45 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-39.88</td> <td>(-19.88)</td> <td>-16.70 k</td> <td>-39.85</td> <td>(-19.85)</td> <td>14.60 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> <p>MSO File <Temp.png> saved</p>	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	21.12	(-11.96)	-1.000 k	21.87	(-11.20)	1.050 k	5.625 kHz	12.50 kHz	100.0 Hz	-40.29	(-3.38)	-12.20 k	-41.55	(-3.55)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.88	(-19.88)	-16.70 k	-39.85	(-19.85)	14.60 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 _H	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 173.900000 MHz Center Freq: 173.900000 MHz Radio Std: None</p> <p>Trig: Free Run Avg: 100.00% of 10</p> <p>IF Gain: Low #Atten: 40 dB Radio Device: BTS</p> <p>Ref Offset 22 dB Ref 37.0 dBm</p> <p>Center 173.9 MHz Span 120 kHz</p> <p>Total Power Ref 31.32 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>31.04</td> <td>(-1.69)</td> <td>0.0</td> <td>31.04</td> <td>(-1.69)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-40.52</td> <td>(-5.45)</td> <td>-12.00 k</td> <td>-44.69</td> <td>(-7.81)</td> <td>12.25 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-41.55</td> <td>(-21.55)</td> <td>-14.00 k</td> <td>-41.65</td> <td>(-21.65)</td> <td>16.05 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> <p>MSO File <MASK D.state> recalled</p>	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	31.04	(-1.69)	0.0	31.04	(-1.69)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.52	(-5.45)	-12.00 k	-44.69	(-7.81)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.55	(-21.55)	-14.00 k	-41.65	(-21.65)	16.05 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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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANH	FM	CH _L	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 136.100000 MHz</p> <p>Ref Offset 21 dB Ref 43.0 dBm</p> <p>Total Power Ref 37.98 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>< Peak > 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>38.00</td> <td>(-1.40)</td> <td>0.0</td> <td>38.00</td> <td>(-1.40)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-37.03</td> <td>(-4.98)</td> <td>-12.50 k</td> <td>-38.92</td> <td>(-4.88)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-36.51</td> <td>(-16.51)</td> <td>-16.90 k</td> <td>-36.73</td> <td>(-16.73)</td> <td>16.90 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)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	38.00	(-1.40)	0.0	38.00	(-1.40)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.03	(-4.98)	-12.50 k	-38.92	(-4.88)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.51	(-16.51)	-16.90 k	-36.73	(-16.73)	16.90 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 _M	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 155.000000 MHz</p> <p>Ref Offset 21 dB Ref 44.0 dBm</p> <p>Total Power Ref 38.25 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>< Peak > 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>38.22</td> <td>(-1.44)</td> <td>0.0</td> <td>38.22</td> <td>(-1.44)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-36.79</td> <td>(-5.01)</td> <td>-12.50 k</td> <td>-36.58</td> <td>(-4.79)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-36.98</td> <td>(-16.98)</td> <td>-17.30 k</td> <td>-37.30</td> <td>(-17.30)</td> <td>17.30 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)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	38.22	(-1.44)	0.0	38.22	(-1.44)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.79	(-5.01)	-12.50 k	-36.58	(-4.79)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.98	(-16.98)	-17.30 k	-37.30	(-17.30)	17.30 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-ANH	FM	CH _M	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 155.000000 MHz</p> <p>Ref Offset 21 dB Ref 44.0 dBm</p> <p>Total Power Ref 38.45 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>< Peak > 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>36.95</td> <td>(-2.71)</td> <td>0.0</td> <td>36.95</td> <td>(-2.71)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-32.03</td> <td>(-1.34)</td> <td>-12.25 k</td> <td>-34.37</td> <td>(-2.58)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-33.33</td> <td>(-13.33)</td> <td>-13.30 k</td> <td>-33.98</td> <td>(-13.98)</td> <td>15.40 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)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	36.95	(-2.71)	0.0	36.95	(-2.71)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-32.03	(-1.34)	-12.25 k	-34.37	(-2.58)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.33	(-13.33)	-13.30 k	-33.98	(-13.98)	15.40 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 _H	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 173.900000 MHz</p> <p>Ref Offset 21 dB Ref 43.0 dBm</p> <p>Total Power Ref 37.86 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>< Peak > 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>37.76</td> <td>(-1.51)</td> <td>0.0</td> <td>37.76</td> <td>(-1.51)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-35.65</td> <td>(-5.66)</td> <td>-12.20 k</td> <td>-37.27</td> <td>(-5.10)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-36.94</td> <td>(-16.94)</td> <td>-20.10 k</td> <td>-36.83</td> <td>(-16.83)</td> <td>20.15 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)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	37.76	(-1.51)	0.0	37.76	(-1.51)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.65	(-5.66)	-12.20 k	-37.27	(-5.10)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.94	(-16.94)	-20.10 k	-36.83	(-16.83)	20.15 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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