



Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH <sub>M1</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None</p> <p>Trig: Free Run AvgHld: &gt;10/10</p> <p>#IFGain:Low #Atten: 18 dB Radio Device: BTS</p> <p>10 dB/div Ref 34.14 dBm</p> <p>Center 406 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth 6.837 kHz Total Power 37.2 dBm</p> <p>Transmit Freq Error 13 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.092 kHz x dB -26.00 dB</p> <p>Frequency: 405.987500 MHz</p> <p>Center Freq: 405.987500 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p>
TX-DNL	4FSK	CH <sub>M2</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Radio Std: None</p> <p>Trig: Free Run AvgHld: &gt;10/10</p> <p>#IFGain:Low #Atten: 18 dB Radio Device: BTS</p> <p>10 dB/div Ref 34.04 dBm</p> <p>Center 406.1 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth 6.725 kHz Total Power 36.9 dBm</p> <p>Transmit Freq Error -35 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 8.877 kHz x dB -26.00 dB</p> <p>Frequency: 406.112500 MHz</p> <p>Center Freq: 406.112500 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p>
TX-DNL	4FSK	CH <sub>M3</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 443.050000 MHz Center Freq: 443.050000 MHz Radio Std: None</p> <p>Trig: Free Run AvgHld: &gt;10/10</p> <p>#IFGain:Low #Atten: 18 dB Radio Device: BTS</p> <p>10 dB/div Ref 34.39 dBm</p> <p>Center 443.1 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth 6.535 kHz Total Power 37.6 dBm</p> <p>Transmit Freq Error -81 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 8.851 kHz x dB -26.00 dB</p> <p>Frequency: 443.050000 MHz</p> <p>Center Freq: 443.050000 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p>



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Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 479.987500 MHz    Center Freq: 479.987500 MHz    Radio Std: None</p> <p>Trig: Free Run    AvgHeld: &gt;10/10    Radio Device: BTS</p> <p>Ref 33.76 dBm</p> <p>10 dB/div</p> <p>Center 480 MHz    Span 50 kHz</p> <p>#Res BW 100 Hz    #VBW 300 Hz    Sweep FFT</p> <p>Occupied Bandwidth    Total Power    36.9 dBm</p> <p><b>6.706 kHz</b></p> <p>Transmit Freq Error    -43 Hz    OBW Power    99.00 %</p> <p>x dB Bandwidth    9.132 kHz    x dB    -26.00 dB</p> <p>Frequency: 479.987500 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p> <p>STATUS DC Coupled</p>



Appendix C:Emission Mask

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TX-DNH	4FSK	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 400.012500 MHz</p> <p>Ref Offset 27 dB Ref 38.0 dBm</p> <p>Total Power Ref 32.98 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>5.625 kHz</td> <td>100.0 Hz</td> <td>32.91</td> <td>(-1.45)</td> <td>-50.00</td> <td>30.73</td> <td>(-3.62)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-44.33</td> <td>(-7.25)</td> <td>-12.50 k</td> <td>-45.77</td> <td>(-9.41)</td> <td>12.40 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-41.67</td> <td>(-21.67)</td> <td>-13.65 k</td> <td>-42.03</td> <td>(-22.03)</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)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	32.91	(-1.45)	-50.00	30.73	(-3.62)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-44.33	(-7.25)	-12.50 k	-45.77	(-9.41)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.67	(-21.67)	-13.65 k	-42.03	(-22.03)	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-DNH	4FSK	CH <sub>M2</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq: 406.112500 MHz          Trig: Free Run          #Atten: 40 dB          Avg: 100.00% of 10          Radio Std: None          Radio Device: BTS</p> <p>Ref Offset: 27 dB          Ref: 38.0 dBm</p> <p>Center 406.1 MHz          Span 120 kHz</p> <p>Total Power Ref: 36.22 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>5.625 kHz</td> <td>100.0 Hz</td> <td>23.41</td> <td>(-10.83)</td> <td>-150.0</td> <td>27.24</td> <td>(-7.00)</td> <td>450.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-40.29</td> <td>(-4.92)</td> <td>-12.25 k</td> <td>-39.47</td> <td>(-4.46)</td> <td>12.20 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-39.42</td> <td>(-19.42)</td> <td>-20.40 k</td> <td>-38.76</td> <td>(-18.76)</td> <td>14.95 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)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	23.41	(-10.83)	-150.0	27.24	(-7.00)	450.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.29	(-4.92)	-12.25 k	-39.47	(-4.46)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.42	(-19.42)	-20.40 k	-38.76	(-18.76)	14.95 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>M3</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 443.050000 MHz Trig: Free Run #Atten: 40 dB Radio Device: BTS</p> <p>Ref Offset 28 dB Ref 38.0 dBm</p> <p>Center 443.1 MHz Span 120 kHz</p> <p>Total Power Ref 33.33 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>5.625 kHz</td> <td>100.0 Hz</td> <td>33.19</td> <td>(-0.71)</td> <td>-100.0</td> <td>30.18</td> <td>(-3.71)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-43.77</td> <td>(-6.23)</td> <td>-12.50 k</td> <td>-42.91</td> <td>(-6.10)</td> <td>12.40 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-40.76</td> <td>(-20.76)</td> <td>-13.80 k</td> <td>-40.30</td> <td>(-20.30)</td> <td>13.65 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	33.19	(-0.71)	-100.0	30.18	(-3.71)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.77	(-6.23)	-12.50 k	-42.91	(-6.10)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.76	(-20.76)	-13.80 k	-40.30	(-20.30)	13.65 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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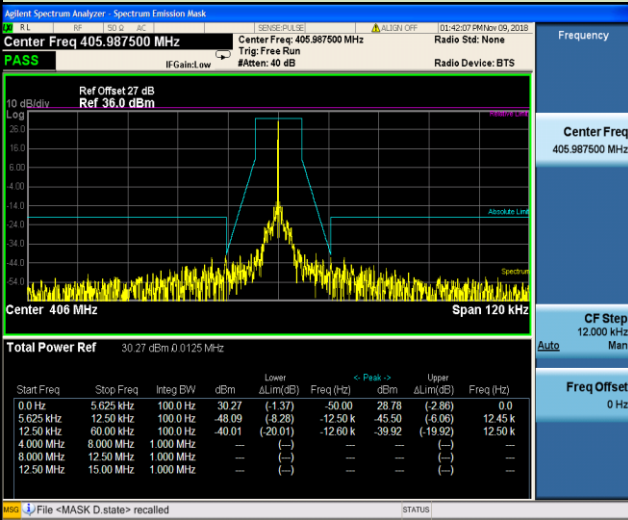
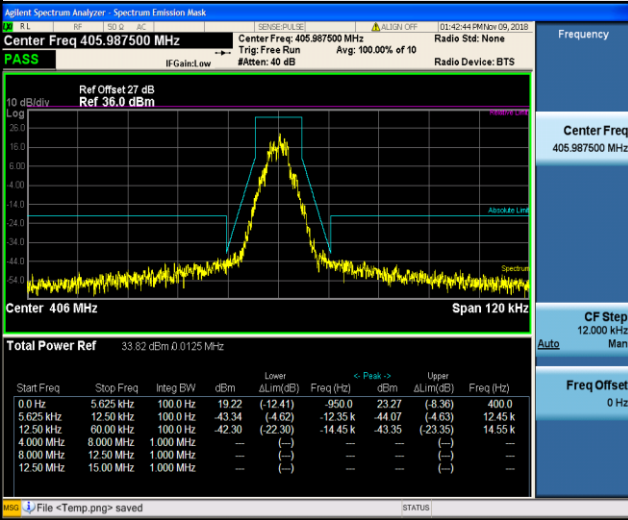
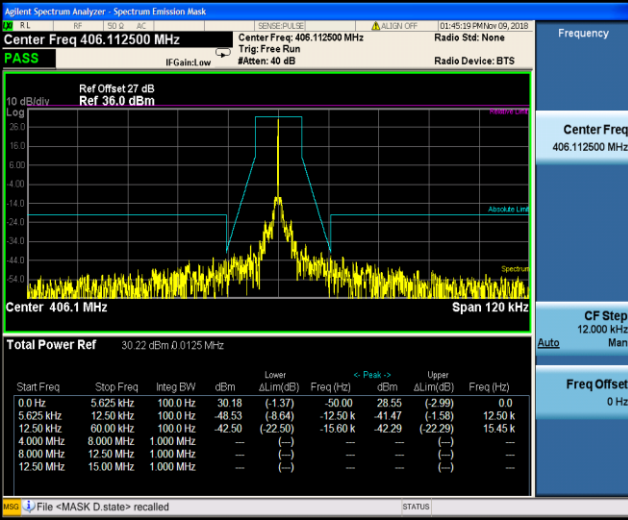


Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																								
TX-DNH	4FSK	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 479.987500 MHz</p> <p>Ref Offset 27 dB Ref 38.0 dBm</p> <p>Total Power Ref 36.04 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>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>23.90</td> <td>(-10.23)</td> <td>-100.0</td> <td>25.08</td> <td>(-9.05)</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-40.98</td> <td>(-4.77)</td> <td>-12.35 k</td> <td>-39.83</td> <td>(-3.25)</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-39.51</td> <td>(-19.51)</td> <td>-14.90 k</td> <td>-38.46</td> <td>(-18.46)</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> </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> </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> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	23.90	(-10.23)	-100.0	25.08	(-9.05)	5.625 kHz	12.50 kHz	100.0 Hz	-40.98	(-4.77)	-12.35 k	-39.83	(-3.25)	12.50 kHz	60.00 kHz	100.0 Hz	-39.51	(-19.51)	-14.90 k	-38.46	(-18.46)	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>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 400.012500 MHz</p> <p>Ref Offset 27 dB Ref 38.0 dBm</p> <p>Total Power Ref 33.30 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>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>22.20</td> <td>(-9.59)</td> <td>-750.0</td> <td>24.46</td> <td>(-7.33)</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-41.20</td> <td>(-3.00)</td> <td>-12.30 k</td> <td>-43.89</td> <td>(-5.69)</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-41.97</td> <td>(-21.97)</td> <td>-14.55 k</td> <td>-41.83</td> <td>(-21.83)</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> </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> </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> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	22.20	(-9.59)	-750.0	24.46	(-7.33)	5.625 kHz	12.50 kHz	100.0 Hz	-41.20	(-3.00)	-12.30 k	-43.89	(-5.69)	12.50 kHz	60.00 kHz	100.0 Hz	-41.97	(-21.97)	-14.55 k	-41.83	(-21.83)	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>M3</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 443.050000 MHz</p> <p>Ref Offset 28 dB Ref 36.0 dBm</p> <p>Total Power Ref 33.57 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>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>21.99</td> <td>(-9.92)</td> <td>-450.0</td> <td>24.93</td> <td>(-6.99)</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-43.16</td> <td>(-4.37)</td> <td>-12.40 k</td> <td>-41.34</td> <td>(-4.72)</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-40.04</td> <td>(-20.04)</td> <td>-13.00 k</td> <td>-40.79</td> <td>(-20.79)</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> </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> </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> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	21.99	(-9.92)	-450.0	24.93	(-6.99)	5.625 kHz	12.50 kHz	100.0 Hz	-43.16	(-4.37)	-12.40 k	-41.34	(-4.72)	12.50 kHz	60.00 kHz	100.0 Hz	-40.04	(-20.04)	-13.00 k	-40.79	(-20.79)	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 <sub>H</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 479.987500 MHz</p> <p>Ref Offset 27 dB Ref 35.0 dBm</p> <p>Total Power Ref 29.92 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>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>29.91</td> <td>(-1.35)</td> <td>-50.00</td> <td>28.07</td> <td>(-3.19)</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-46.05</td> <td>(-6.59)</td> <td>-12.40 k</td> <td>-45.38</td> <td>(-6.65)</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-42.24</td> <td>(-22.24)</td> <td>-14.95 k</td> <td>-42.32</td> <td>(-22.32)</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> </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> </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> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	29.91	(-1.35)	-50.00	28.07	(-3.19)	5.625 kHz	12.50 kHz	100.0 Hz	-46.05	(-6.59)	-12.40 k	-45.38	(-6.65)	12.50 kHz	60.00 kHz	100.0 Hz	-42.24	(-22.24)	-14.95 k	-42.32	(-22.32)	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 F:Frequency Stability Test & Temperature**

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)					Limit (ppm)	Result
		Voltage	Temperature	CH <sub>L</sub>	CH <sub>M1</sub>	CH <sub>M2</sub>	CH <sub>M3</sub>	CH <sub>H</sub>		
TX-DNH	4FSK	V <sub>N</sub>	-30	-0.134	-0.105	-0.117	-0.125	-0.151	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	-20	-0.118	-0.104	-0.112	-0.111	-0.142	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	-10	-0.117	-0.097	-0.102	-0.104	-0.132	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	0	-0.101	-0.085	-0.097	-0.094	-0.119	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	10	-0.097	-0.078	-0.088	-0.092	-0.114	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	20	-0.084	-0.070	-0.076	-0.078	-0.095	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	30	-0.097	-0.088	-0.093	-0.096	-0.111	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	40	-0.107	-0.090	-0.097	-0.098	-0.119	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	55	-0.120	-0.097	-0.103	-0.108	-0.130	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	-30	-0.130	-0.107	-0.112	-0.132	-0.134	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	-20	-0.122	-0.099	-0.107	-0.123	-0.128	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	-10	-0.117	-0.093	-0.099	-0.116	-0.119	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	0	-0.103	-0.082	-0.091	-0.111	-0.109	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	10	-0.094	-0.075	-0.085	-0.099	-0.098	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	20	-0.085	<b><u>-0.067</u></b>	-0.073	-0.086	-0.089	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	30	-0.105	-0.082	-0.087	-0.101	-0.103	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	40	-0.109	-0.090	-0.092	-0.115	-0.112	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	55	-0.121	-0.096	-0.105	-0.119	-0.127	±5.0	PASS

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

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)					Limit (ppm)	Result
		Voltage	Temperature	CH <sub>L</sub>	CH <sub>M1</sub>	CH <sub>M2</sub>	CH <sub>M3</sub>	CH <sub>H</sub>		
TX-DNH	4FSK	V <sub>N</sub>	T <sub>N</sub>	-0.084	<b><u>-0.070</u></b>	-0.076	-0.078	-0.095	±5.0	PASS
TX-DNH	4FSK	V <sub>L</sub>	T <sub>N</sub>	-0.118	-0.090	-0.097	-0.094	-0.124	±5.0	PASS
TX-DNH	4FSK	V <sub>H</sub>	T <sub>N</sub>	-0.102	-0.075	-0.086	-0.084	-0.099	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	T <sub>N</sub>	-0.085	<b><u>-0.067</u></b>	-0.073	-0.086	-0.089	±5.0	PASS
TX-DNL	4FSK	V <sub>L</sub>	T <sub>N</sub>	-0.102	-0.080	-0.094	-0.107	-0.109	±5.0	PASS
TX-DNL	4FSK	V <sub>H</sub>	T <sub>N</sub>	-0.089	-0.070	-0.085	-0.096	-0.097	±5.0	PASS



Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																								
TX-DNH	4FSK	CH <sub>M2</sub>	<thead> <tr> <th colspan="2">Carrier Power</th> <th colspan="2">Carrier Offset</th> <th colspan="2">Mod. Freq.</th> <th>SINAD</th> <th>THD</th> </tr> <tr> <th>+Peak</th> <th>-Peak</th> <th>+Peak/2</th> <th>RMS</th> <th>Mod. Freq.</th> <th>SINAD</th> <th>THD</th> <th></th> </tr> </thead> <tbody> <tr> <td>12.739 kHz</td> <td>-12.385 kHz</td> <td>12.562 kHz</td> <td>8.7434 kHz</td> <td>1000.0 Hz</td> <td>---</td> <td>---</td> <td>---</td> </tr> </tbody>	Carrier Power		Carrier Offset		Mod. Freq.		SINAD	THD	+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD		12.739 kHz	-12.385 kHz	12.562 kHz	8.7434 kHz	1000.0 Hz	---	---	---
Carrier Power		Carrier Offset		Mod. Freq.		SINAD	THD																				
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| TX-DNH | 4FSK | CH<sub>M2</sub> | | Carrier Power | | Carrier Offset | | Mod. Freq. | | SINAD | THD | | --- | --- | --- | --- | --- | --- | --- | --- | | +Peak | -Peak | +Peak/2 | RMS | Mod. Freq. | SINAD | THD |  | | 12.1 kHz | -12.16 kHz | 12.13 kHz | 8.7499 kHz | 1.0 kHz | --- | --- | --- | |



Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																		
TX-DNH	4FSK	CHL	<table border="1"> <thead> <tr> <th>Range Low</th> <th>Range Up</th> <th>RBW</th> <th>Frequency</th> <th>Power Abs</th> <th>ALimit</th> </tr> </thead> <tbody> <tr> <td>30.000 MHz</td> <td>1.000 GHz</td> <td>100.000 kHz</td> <td>399.99797 MHz</td> <td>-18.71 dBm</td> <td>-200.00 dB</td> </tr> <tr> <td>1.000 GHz</td> <td>5.000 GHz</td> <td>1.000 MHz</td> <td>4.40896 GHz</td> <td>-35.73 dBm</td> <td>-200.00 dB</td> </tr> </tbody> </table>	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	30.000 MHz	1.000 GHz	100.000 kHz	399.99797 MHz	-18.71 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	4.40896 GHz	-35.73 dBm	-200.00 dB
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TX-DNH	4FSK	CHM1	<table border="1"> <thead> <tr> <th>Range Low</th> <th>Range Up</th> <th>RBW</th> <th>Frequency</th> <th>Power Abs</th> <th>ALimit</th> </tr> </thead> <tbody> <tr> <td>30.000 MHz</td> <td>1.000 GHz</td> <td>100.000 kHz</td> <td>405.96934 MHz</td> <td>-24.28 dBm</td> <td>-200.00 dB</td> </tr> <tr> <td>1.000 GHz</td> <td>5.000 GHz</td> <td>1.000 MHz</td> <td>4.77944 GHz</td> <td>-35.82 dBm</td> <td>-200.00 dB</td> </tr> </tbody> </table>	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	30.000 MHz	1.000 GHz	100.000 kHz	405.96934 MHz	-24.28 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	4.77944 GHz	-35.82 dBm	-200.00 dB
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TX-DNH	4FSK	CHM2	<table border="1"> <thead> <tr> <th>Range Low</th> <th>Range Up</th> <th>RBW</th> <th>Frequency</th> <th>Power Abs</th> <th>ALimit</th> </tr> </thead> <tbody> <tr> <td>30.000 MHz</td> <td>1.000 GHz</td> <td>100.000 kHz</td> <td>406.09059 MHz</td> <td>-27.47 dBm</td> <td>-200.00 dB</td> </tr> <tr> <td>1.000 GHz</td> <td>5.000 GHz</td> <td>1.000 MHz</td> <td>4.93069 GHz</td> <td>-35.65 dBm</td> <td>-200.00 dB</td> </tr> </tbody> </table>	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	30.000 MHz	1.000 GHz	100.000 kHz	406.09059 MHz	-27.47 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	4.93069 GHz	-35.65 dBm	-200.00 dB
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Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																		
TX-DNH	4FSK	CH <sub>M3</sub>	<p>MultiView Spectrum Ref Level 37.00 dBm Offset 20.50 dB Mode Auto Sweep</p> <p>1 Spurious Emissions M1[1] -35.52 dBm 4.7263210 GHz</p> <p>SPURIOUS LINE_A65_001</p> <p>2 Result Summary</p> <table border="1"> <thead> <tr> <th>Range Low</th> <th>Range Up</th> <th>RBW</th> <th>Frequency</th> <th>Power Abs</th> <th>ALimit</th> </tr> </thead> <tbody> <tr> <td>30.000 MHz</td> <td>1.000 GHz</td> <td>100.000 kHz</td> <td>443.07069 MHz</td> <td>-43.33 dBm</td> <td>-200.00 dB</td> </tr> <tr> <td>1.000 GHz</td> <td>5.000 GHz</td> <td>1.000 MHz</td> <td>4.72632 GHz</td> <td>-35.52 dBm</td> <td>-200.00 dB</td> </tr> </tbody> </table> <p>Date: 14.NOV.2018 16:34:37</p>	Range Low	Range Up	RBW	Frequency	Power Abs	ALimit	30.000 MHz	1.000 GHz	100.000 kHz	443.07069 MHz	-43.33 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	4.72632 GHz	-35.52 dBm	-200.00 dB
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----End of Report----