



**Appendix B:Occupied Bandwidth**

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>#IFGain:Low    #Atten: 8 dB</p> <p>10 dB/div    Ref 23.28 dBm</p> <p>Center 480 MHz    Span 50 kHz</p> <p>#Res BW 100 Hz    #VBW 300 Hz    Sweep FFT</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>25.5 dBm</td> </tr> <tr> <td><b>6.508 kHz</b></td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>61 Hz</td> <td>OBW Power</td> </tr> <tr> <td>x dB Bandwidth</td> <td>8.870 kHz</td> <td>x dB</td> </tr> <tr> <td></td> <td></td> <td>99.00 %</td> </tr> <tr> <td></td> <td></td> <td>-26.00 dB</td> </tr> </table> <p>Frequency: 479.987500 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p> <p>STATUS: DC Coupled</p>	Occupied Bandwidth	Total Power	25.5 dBm	<b>6.508 kHz</b>			Transmit Freq Error	61 Hz	OBW Power	x dB Bandwidth	8.870 kHz	x dB			99.00 %			-26.00 dB
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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 25.0 dBm</p> <p>Total Power Ref 19.90 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>Upper ΔLim(dB)</th> <th>Peak (dBm)</th> <th>Peak (dB)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>19.70</td> <td>(-1.79)</td> <td>0.0</td> <td>19.92</td> <td>(-1.57)</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-54.54</td> <td>(-5.69)</td> <td>-12.35 k</td> <td>-51.99</td> <td>(-5.68)</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-53.38</td> <td>(-33.38)</td> <td>-16.00 k</td> <td>-52.94</td> <td>(-32.94)</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)	Upper ΔLim(dB)	Peak (dBm)	Peak (dB)	0.0 Hz	5.625 kHz	100.0 Hz	19.70	(-1.79)	0.0	19.92	(-1.57)	5.625 kHz	12.50 kHz	100.0 Hz	-54.54	(-5.69)	-12.35 k	-51.99	(-5.68)	12.50 kHz	60.00 kHz	100.0 Hz	-53.38	(-33.38)	-16.00 k	-52.94	(-32.94)	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

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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 25.0 dBm</p> <p>Center 400 MHz</p> <p>Span 120 kHz</p> <p>Total Power Ref 22.56 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>10.70</td> <td>(-10.13)</td> <td>-150.0</td> <td>9.689</td> <td>(-11.14)</td> <td>700.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-50.78</td> <td>(-0.90)</td> <td>-12.40 k</td> <td>-52.63</td> <td>(-2.39)</td> <td>12.45 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-52.19</td> <td>(-32.19)</td> <td>-13.35 k</td> <td>-50.85</td> <td>(-30.85)</td> <td>13.75 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	10.70	(-10.13)	-150.0	9.689	(-11.14)	700.0	5.625 kHz	12.50 kHz	100.0 Hz	-50.78	(-0.90)	-12.40 k	-52.63	(-2.39)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-52.19	(-32.19)	-13.35 k	-50.85	(-30.85)	13.75 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

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TX-DNL	4FSK	CH <sub>M1</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq: 405.987500 MHz Trig: Free Run #Atten: 40 dB Radio Device: BTS</p> <p>Ref Offset: 27 dB Ref: 25.0 dBm</p> <p>Total Power Ref: 19.38 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>18.72</td> <td>(-1.83)</td> <td>0.0</td> <td>18.92</td> <td>(-1.63)</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-57.37</td> <td>(-7.58)</td> <td>-12.35 k</td> <td>-58.07</td> <td>(-8.27)</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-53.32</td> <td>(-33.32)</td> <td>-13.65 k</td> <td>-52.39</td> <td>(-32.39)</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	18.72	(-1.83)	0.0	18.92	(-1.63)	5.625 kHz	12.50 kHz	100.0 Hz	-57.37	(-7.58)	-12.35 k	-58.07	(-8.27)	12.50 kHz	60.00 kHz	100.0 Hz	-53.32	(-33.32)	-13.65 k	-52.39	(-32.39)	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

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TX-DNL	4FSK	CH <sub>M2</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Radio Std: None</p> <p>Ref Offset 27 dB Ref 25.0 dBm</p> <p>Total Power Ref 21.52 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>10.21</td> <td>(-10.29)</td> <td>-800.0</td> <td>13.14</td> <td>(-7.36)</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-52.89</td> <td>(-4.13)</td> <td>-12.20 k</td> <td>-51.54</td> <td>(-1.69)</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-52.64</td> <td>(-32.64)</td> <td>-15.05 k</td> <td>-52.04</td> <td>(-32.04)</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	10.21	(-10.29)	-800.0	13.14	(-7.36)	5.625 kHz	12.50 kHz	100.0 Hz	-52.89	(-4.13)	-12.20 k	-51.54	(-1.69)	12.50 kHz	60.00 kHz	100.0 Hz	-52.64	(-32.64)	-15.05 k	-52.04	(-32.04)	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 Center Freq: 443.050000 MHz Radio Std: None</p> <p>Ref Offset 28 dB Ref 36.0 dBm</p> <p>Total Power Ref 30.89 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>29.38</td> <td>(2.37)</td> <td>0.0</td> <td>30.97</td> <td>(0.78)</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-43.17</td> <td>(3.94)</td> <td>-12.45 k</td> <td>-43.50</td> <td>(3.82)</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-41.54</td> <td>(-21.54)</td> <td>-12.50 k</td> <td>-41.34</td> <td>(-21.34)</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	29.38	(2.37)	0.0	30.97	(0.78)	5.625 kHz	12.50 kHz	100.0 Hz	-43.17	(3.94)	-12.45 k	-43.50	(3.82)	12.50 kHz	60.00 kHz	100.0 Hz	-41.54	(-21.54)	-12.50 k	-41.34	(-21.34)	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 Center Freq: 443.050000 MHz Radio Std: None</p> <p>Ref Offset 28 dB Ref 36.0 dBm</p> <p>Total Power Ref 34.33 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>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>21.36</td> <td>(-10.39)</td> <td>-100.0</td> <td>23.86</td> <td>(-7.89)</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-41.29</td> <td>(-3.42)</td> <td>-12.25 k</td> <td>-41.34</td> <td>(-3.11)</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-42.97</td> <td>(-22.97)</td> <td>-13.15 k</td> <td>-40.29</td> <td>(-20.29)</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	21.36	(-10.39)	-100.0	23.86	(-7.89)	5.625 kHz	12.50 kHz	100.0 Hz	-41.29	(-3.42)	-12.25 k	-41.34	(-3.11)	12.50 kHz	60.00 kHz	100.0 Hz	-42.97	(-22.97)	-13.15 k	-40.29	(-20.29)	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 MHz	15.00 MHz	1.000 MHz	-	(-)	-	-	(-)																																																				





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 Center Freq: 479.987500 MHz Radio Std: None</p> <p>Ref Offset: 27 dB Ref: 25.0 dBm</p> <p>Total Power Ref: 19.38 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 (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>18.86</td> <td>(-1.81)</td> <td>0.0</td> <td>18.91</td> <td>(-1.76)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-52.47</td> <td>(-4.97)</td> <td>-12.05 k</td> <td>-54.18</td> <td>(-5.95)</td> <td>12.15 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-54.06</td> <td>(-34.06)</td> <td>-13.95 k</td> <td>-54.27</td> <td>(-34.27)</td> <td>22.90 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)	Peak (Hz)	dBm	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	18.86	(-1.81)	0.0	18.91	(-1.76)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-52.47	(-4.97)	-12.05 k	-54.18	(-5.95)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-54.06	(-34.06)	-13.95 k	-54.27	(-34.27)	22.90 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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak (Hz)	dBm	Upper ΔLim(dB)	Upper Freq (Hz)																																																										
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TX-DNL	4FSK	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 479.987500 MHz Center Freq: 479.987500 MHz Radio Std: None</p> <p>Ref Offset: 27 dB Ref: 25.0 dBm</p> <p>Total Power Ref: 21.49 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 (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>10.88</td> <td>(9.78)</td> <td>-900.0</td> <td>13.64</td> <td>(7.02)</td> <td>500.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-54.16</td> <td>(3.39)</td> <td>-12.50 k</td> <td>-53.00</td> <td>(2.23)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-52.89</td> <td>(-32.89)</td> <td>-14.70 k</td> <td>-50.52</td> <td>(-30.52)</td> <td>14.70 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)	Peak (Hz)	dBm	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	10.88	(9.78)	-900.0	13.64	(7.02)	500.0	5.625 kHz	12.50 kHz	100.0 Hz	-54.16	(3.39)	-12.50 k	-53.00	(2.23)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-52.89	(-32.89)	-14.70 k	-50.52	(-30.52)	14.70 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 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>M4</sub>		
TX-DNH	4FSK	V <sub>N</sub>	-30	<b>0.090</b>	-0.059	-0.073	-0.047	-0.077	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	-20	0.086	-0.053	-0.065	-0.044	-0.070	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	-10	0.079	-0.052	-0.063	-0.044	-0.068	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	0	0.071	-0.045	-0.057	-0.037	-0.060	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	10	0.063	-0.039	-0.047	-0.033	-0.053	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	20	0.056	-0.035	-0.043	-0.029	-0.046	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	30	0.070	-0.042	-0.053	-0.036	-0.055	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	40	0.073	-0.047	-0.057	-0.037	-0.058	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	55	0.076	-0.049	-0.058	-0.040	-0.063	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	-30	0.061	0.084	-0.096	-0.093	-0.040	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	-20	0.055	0.075	-0.086	-0.082	-0.035	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	-10	0.051	0.066	-0.075	-0.074	-0.032	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	0	0.041	0.056	-0.064	-0.065	-0.026	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	10	0.039	0.049	-0.058	-0.054	-0.024	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	20	0.033	0.043	-0.051	-0.048	-0.021	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	30	0.044	0.058	-0.065	-0.063	-0.026	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	40	0.048	0.065	-0.075	-0.074	-0.032	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	55	0.055	0.071	-0.087	-0.081	-0.037	±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>M4</sub>		
TX-DNH	4FSK	V <sub>N</sub>	T <sub>N</sub>	0.056	-0.035	-0.043	-0.029	-0.046	±5.0	PASS
TX-DNH	4FSK	V <sub>L</sub>	T <sub>N</sub>	<u>0.090</u>	-0.054	-0.069	-0.044	-0.069	±5.0	PASS
TX-DNH	4FSK	V <sub>H</sub>	T <sub>N</sub>	0.065	-0.041	-0.049	-0.033	-0.052	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	T <sub>N</sub>	0.033	0.043	-0.051	-0.048	-0.021	±5.0	PASS
TX-DNL	4FSK	V <sub>L</sub>	T <sub>N</sub>	0.052	<u>0.065</u>	-0.081	-0.072	-0.034	±5.0	PASS
TX-DNL	4FSK	V <sub>H</sub>	T <sub>N</sub>	0.044	0.058	-0.064	-0.064	-0.028	±5.0	PASS

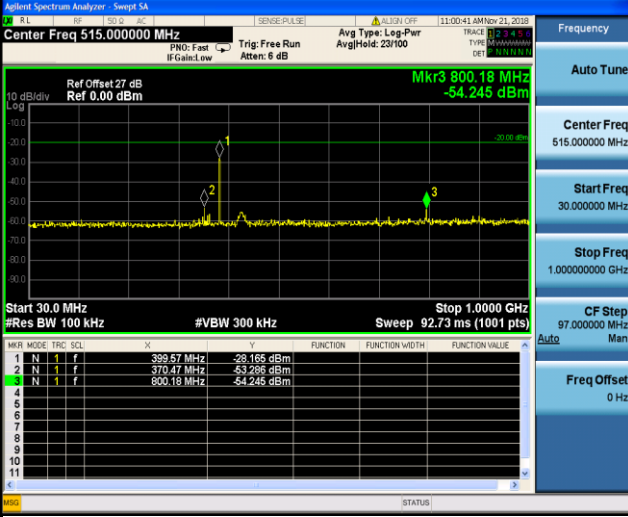
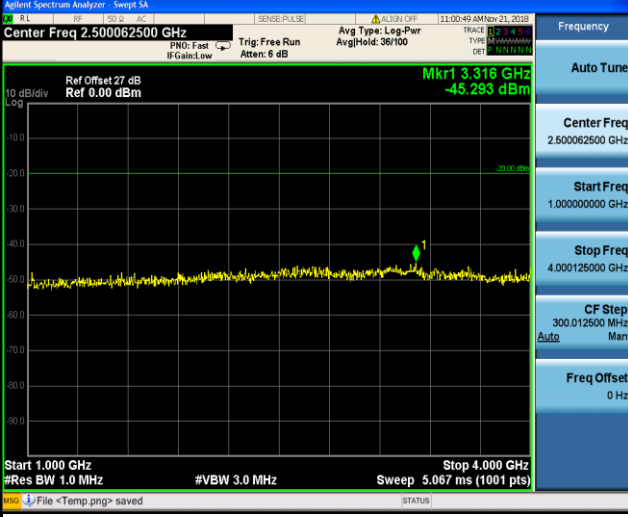
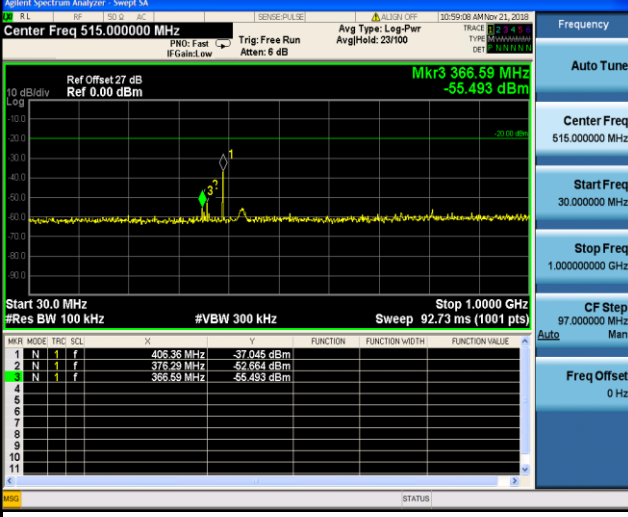


Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																						
TX-DNH	4FSK	CH <sub>M2</sub>	<p>MultiView Spectrum Analog Demod</p> <p>Ref Level 37.00 dBm Offset 20.50 dB Att 26 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG:IFP(17MHz) YIG Bypass</p> <p>1 FM Time Domain</p> <p>CF 406.1125 MHz 1001 pts 10.0 ms/</p> <p>4 Result Summary</p> <table border="1"> <thead> <tr> <th></th> <th>Carrier Power</th> <th>Carrier Offset</th> </tr> </thead> <tbody> <tr> <td></td> <td>25.81 dBm</td> <td>58.19 Hz</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th></th> <th>+Peak</th> <th>-Peak</th> <th>+Peak/2</th> <th>RMS</th> <th>Mod. Freq.</th> <th>SINAD</th> <th>THD</th> </tr> </thead> <tbody> <tr> <td>FM</td> <td>13.001 kHz</td> <td>-12.745 kHz</td> <td>12.873 kHz</td> <td>8.7439 kHz</td> <td>1.0 kHz</td> <td>---</td> <td>---</td> </tr> </tbody> </table> <p>Analog Demod: Waiting for Trigger...</p> <p>Date: 22.NOV.2018 11:02:31</p> <p style="text-align: center;">OFF~ON</p>		Carrier Power	Carrier Offset		25.81 dBm	58.19 Hz		+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD	FM	13.001 kHz	-12.745 kHz	12.873 kHz	8.7439 kHz	1.0 kHz	---	---
	Carrier Power	Carrier Offset																							
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	+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD																		
FM	13.001 kHz	-12.745 kHz	12.873 kHz	8.7439 kHz	1.0 kHz	---	---																		
TX-DNH	4FSK	CH <sub>M2</sub>	<p>MultiView Spectrum Analog Demod</p> <p>Ref Level 37.00 dBm Offset 20.50 dB Att 26 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG:IFP(17MHz) YIG Bypass</p> <p>1 FM Time Domain</p> <p>CF 406.1125 MHz 1001 pts 10.0 ms/</p> <p>4 Result Summary</p> <table border="1"> <thead> <tr> <th></th> <th>Carrier Power</th> <th>Carrier Offset</th> </tr> </thead> <tbody> <tr> <td></td> <td>25.71 dBm</td> <td>41.25 Hz</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th></th> <th>+Peak</th> <th>-Peak</th> <th>+Peak/2</th> <th>RMS</th> <th>Mod. Freq.</th> <th>SINAD</th> <th>THD</th> </tr> </thead> <tbody> <tr> <td>FM</td> <td>12.13 kHz</td> <td>-12.28 kHz</td> <td>12.205 kHz</td> <td>8.7244 kHz</td> <td>998.86 Hz</td> <td>---</td> <td>---</td> </tr> </tbody> </table> <p>Analog Demod: Waiting for Trigger...</p> <p>Date: 22.NOV.2018 11:01:52</p> <p style="text-align: center;">ON-OFF</p>		Carrier Power	Carrier Offset		25.71 dBm	41.25 Hz		+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD	FM	12.13 kHz	-12.28 kHz	12.205 kHz	8.7244 kHz	998.86 Hz	---	---
	Carrier Power	Carrier Offset																							
	25.71 dBm	41.25 Hz																							
	+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD																		
FM	12.13 kHz	-12.28 kHz	12.205 kHz	8.7244 kHz	998.86 Hz	---	---																		

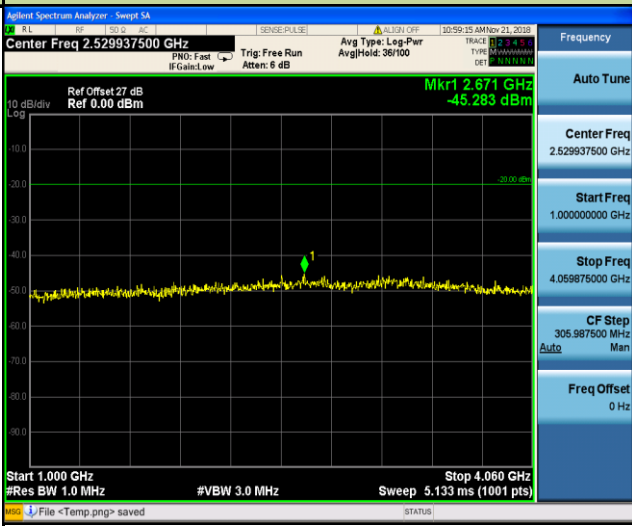
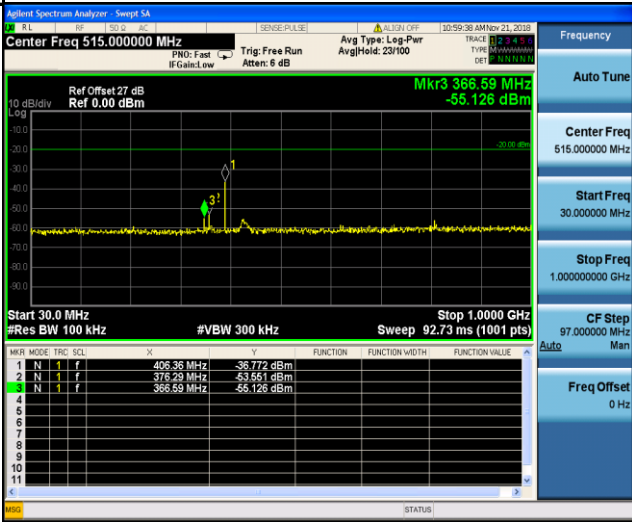
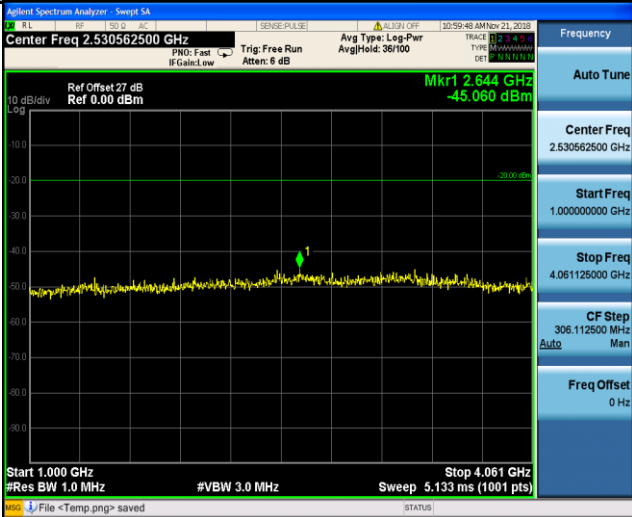


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-DNH	4FSK	CHL	 <table border="1" data-bbox="598 683 1125 840"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRG</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>399.57 MHz</td> <td>-28.165 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>370.47 MHz</td> <td>-53.286 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>800.18 MHz</td> <td>-54.245 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p style="text-align: center;">30MHz~1GHz</p>	MKR	MODE	TRG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	399.57 MHz	-28.165 dBm				2	N	1	f	370.47 MHz	-53.286 dBm				3	N	1	f	800.18 MHz	-54.245 dBm			
MKR	MODE	TRG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																															
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2	N	1	f	370.47 MHz	-53.286 dBm																																		
3	N	1	f	800.18 MHz	-54.245 dBm																																		
TX-DNH	4FSK	CHL	 <p style="text-align: center;">1GHz~10th Harmonic</p>																																				
TX-DNH	4FSK	CH <sub>M1</sub>	 <table border="1" data-bbox="598 1812 1125 1968"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRG</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>405.36 MHz</td> <td>-37.045 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>370.49 MHz</td> <td>-52.664 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>366.59 MHz</td> <td>-55.493 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p style="text-align: center;">30MHz~1GHz</p>	MKR	MODE	TRG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	405.36 MHz	-37.045 dBm				2	N	1	f	370.49 MHz	-52.664 dBm				3	N	1	f	366.59 MHz	-55.493 dBm			
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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>M1</sub>	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.529937500 GHz Ref Offset 27 dB Ref 0.00 dBm Mkr1 2.671 GHz -45.283 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.133 ms (1001 pts)</p> <p>1GHz~10th Harmonic</p>																																																																																																																								
TX-DNH	4FSK	CH <sub>M2</sub>	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 27 dB Ref 0.00 dBm Mkr3 366.59 MHz -55.126 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts)</p> <table border="1" data-bbox="596 1243 1117 1400"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRG</th> <th>SCL</th> <th>F</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td></td> <td>406.38 MHz</td> <td>-36.772 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td></td> <td>376.29 MHz</td> <td>-53.551 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td></td> <td>366.59 MHz</td> <td>-55.126 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>9</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>30MHz~1GHz</p>	MKR	MODE	TRG	SCL	F	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f		406.38 MHz	-36.772 dBm				2	N	1	f		376.29 MHz	-53.551 dBm				3	N	1	f		366.59 MHz	-55.126 dBm				4										5										6										7										8										9										10										11									
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TX-DNH	4FSK	CH <sub>M2</sub>	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.530562500 GHz Ref Offset 27 dB Ref 0.00 dBm Mkr1 2.644 GHz -45.060 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.133 ms (1001 pts)</p> <p>1GHz~10th Harmonic</p>																																																																																																																								



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TX-DNH	4FSK	CH <sub>M3</sub>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 27 dB Ref 0.00 dBm Mkr3 443.22 MHz -55.081 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.0000 GHz Sweep 92.73 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRG</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>443.22 MHz</td> <td>-55.081 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>443.22 MHz</td> <td>-55.081 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>443.22 MHz</td> <td>-55.081 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>30MHz~1GHz</p>	MKR	MODE	TRG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	443.22 MHz	-55.081 dBm				2	N	1	f	443.22 MHz	-55.081 dBm				3	N	1	f	443.22 MHz	-55.081 dBm			
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TX-DNH	4FSK	CH <sub>M3</sub>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.715250000 GHz Ref Offset 27 dB Ref 0.00 dBm Mkr1 3.213 GHz -44.799 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 4.431 GHz Sweep 5.733 ms (1001 pts)</p> <p>1GHz~10th Harmonic</p>																																				
TX-DNH	4FSK	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 27 dB Ref 0.00 dBm Mkr3 442.25 MHz -54.976 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.0000 GHz Sweep 92.73 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRG</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>442.26 MHz</td> <td>-54.976 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>442.25 MHz</td> <td>-54.976 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>442.26 MHz</td> <td>-54.976 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>30MHz~1GHz</p>	MKR	MODE	TRG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	442.26 MHz	-54.976 dBm				2	N	1	f	442.25 MHz	-54.976 dBm				3	N	1	f	442.26 MHz	-54.976 dBm			
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Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH <sub>H</sub>	<p style="text-align: center;">1GHz~10th Harmonic</p>

----End of Report----