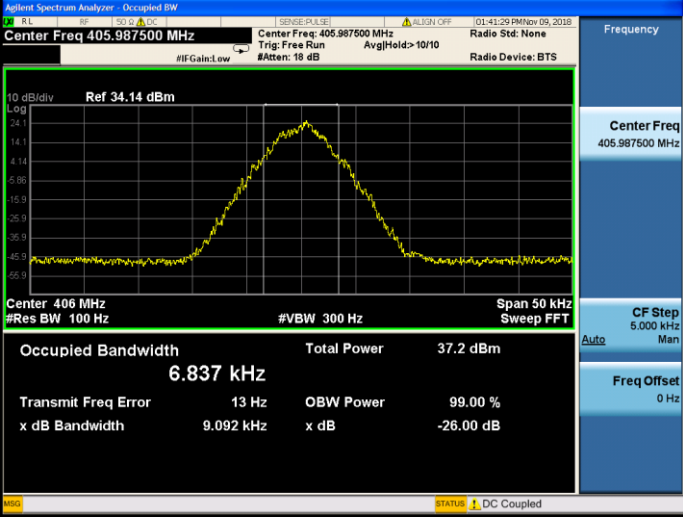
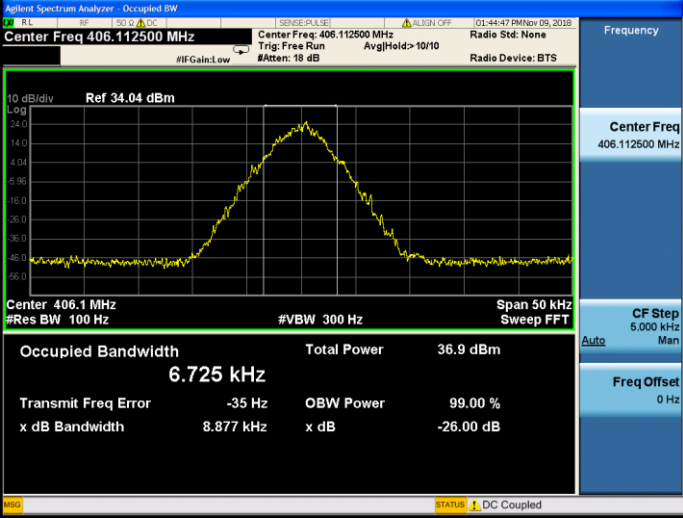
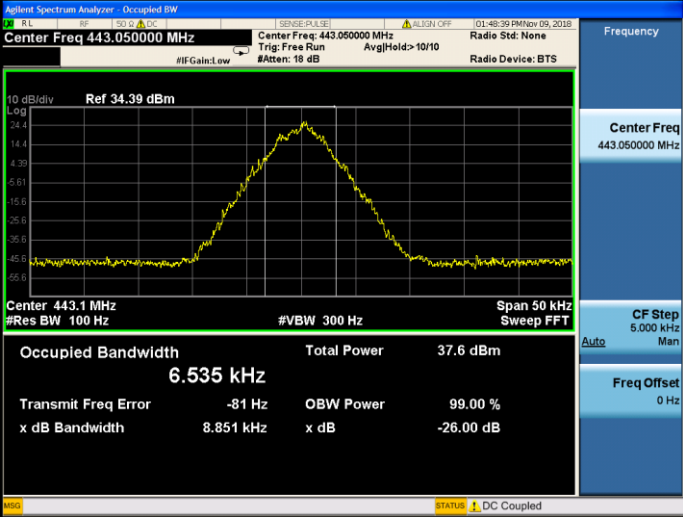


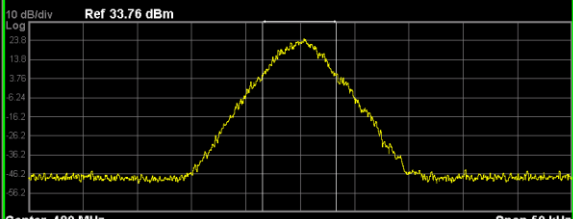


Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _{M1}	
TX-DNL	4FSK	CH _{M2}	
TX-DNL	4FSK	CH _{M3}	



Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _H	Agilent Spectrum Analyzer - Occupied BW Center Freq 479.987500 MHz Center Freq: 479.987500 MHz Trig: Free Run #IF Gain: Low #Atten: 18 dB Avg/Hold: >10/10 Radio Std: None Radio Device: BTS 101.98.07 PM Nov 09, 2018 10 dB/div Ref 33.76 dBm  Center 480 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 6.706 kHz Total Power 36.9 dBm Transmit Freq Error -43 Hz OBW Power 99.00 % x dB Bandwidth 9.132 kHz x dB -26.00 dB MOD STATUS DC Coupled Frequency Center Freq 479.987500 MHz CF Step 5.000 kHz Auto Man Freq Offset 0 Hz



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Ref Offset 27 dB Ref 38.0 dBm 10 dB/div Log 28.0 18.0 8.00 2.00 32.0 42.0 52.0 Center 400 MHz Span 120 kHz Total Power Ref 32.98 dBm 0.0125 MHz <table><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><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></table> File <MASK.D.state> recalled STATUS Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Ref Offset 27 dB Ref 38.0 dBm 10 dB/div Log 28.0 18.0 8.00 2.00 32.0 42.0 52.0 Center 400 MHz Span 120 kHz Total Power Ref 36.63 dBm 0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>23.62</td><td>(-10.74)</td><td>-650.0</td><td>26.89</td><td>(-7.46)</td><td>450.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.94</td><td>(-4.85)</td><td>-12.50 k</td><td>-40.37</td><td>(-3.65)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.67</td><td>(-18.67)</td><td>-12.80 k</td><td>-39.83</td><td>(-19.83)</td><td>14.10 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></table> File <Temp.png> saved STATUS Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	23.62	(-10.74)	-650.0	26.89	(-7.46)	450.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.94	(-4.85)	-12.50 k	-40.37	(-3.65)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.67	(-18.67)	-12.80 k	-39.83	(-19.83)	14.10 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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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TX-DNH	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Ref Offset 27 dB Ref 38.0 dBm 10 dB/div Log 28.0 18.0 8.00 2.00 32.0 42.0 52.0 Center 406 MHz Span 120 kHz Total Power Ref 32.99 dBm 0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>32.92</td><td>(-1.43)</td><td>-50.00</td><td>31.59</td><td>(-2.76)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.59</td><td>(-3.50)</td><td>-12.50 k</td><td>-39.57</td><td>(-2.85)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.64</td><td>(-20.64)</td><td>-14.65 k</td><td>-40.86</td><td>(-20.86)</td><td>14.55 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></table> File <MASK.D.state> recalled STATUS Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	32.92	(-1.43)	-50.00	31.59	(-2.76)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.59	(-3.50)	-12.50 k	-39.57	(-2.85)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.64	(-20.64)	-14.65 k	-40.86	(-20.86)	14.55 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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Ref Offset 27 dB Ref 38.0 dBm 10 dB/div Log 28.0 18.0 8.00 2.00 0.00 22.0 32.0 42.0 52.0 Center 406 MHz Span 120 kHz Total Power Ref 36.32 dBm/0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>24.82</td><td>(-9.53)</td><td>-100.0</td><td>24.84</td><td>(-9.51)</td><td>350.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.49</td><td>(-4.95)</td><td>-12.15 k</td><td>-40.50</td><td>(-3.41)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.12</td><td>(-19.12)</td><td>-13.00 k</td><td>-39.52</td><td>(-19.52)</td><td>14.05 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></table> Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz File <Temp.png> saved STATUS	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	24.82	(-9.53)	-100.0	24.84	(-9.51)	350.0	5.625 kHz	12.50 kHz	100.0 Hz	-39.49	(-4.95)	-12.15 k	-40.50	(-3.41)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.12	(-19.12)	-13.00 k	-39.52	(-19.52)	14.05 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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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TX-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Ref Offset 27 dB Ref 38.0 dBm 10 dB/div Log 28.0 18.0 8.00 2.00 0.00 22.0 32.0 42.0 52.0 Center 406.1 MHz Span 120 kHz Total Power Ref 32.96 dBm/0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>32.87</td><td>(-1.38)</td><td>-50.00</td><td>31.19</td><td>(-3.05)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.67</td><td>(7.30)</td><td>-12.25 k</td><td>-43.43</td><td>(7.33)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.80</td><td>(-20.80)</td><td>-16.45 k</td><td>-41.22</td><td>(-21.22)</td><td>16.35 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></table> Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz File <MASK.D.state> recalled STATUS	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	32.87	(-1.38)	-50.00	31.19	(-3.05)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.67	(7.30)	-12.25 k	-43.43	(7.33)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.80	(-20.80)	-16.45 k	-41.22	(-21.22)	16.35 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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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TX-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Ref Offset 27 dB Ref 38.0 dBm 10 dB/div Log 28.0 18.0 8.00 2.00 0.00 22.0 32.0 42.0 52.0 Center 406.1 MHz Span 120 kHz Total Power Ref 36.22 dBm/0.0125 MHz <table><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><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></table> Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz File <Temp.png> saved STATUS	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	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	—	(—)	—	—	(—)	—
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	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	—	(—)	—	—	(—)	—																																																										



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 443.050000 MHz Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS Ref Offset 28 dB Ref 38.0 dBm 10 dB/div Log 28.0 18.0 8.00 2.00 12.0 22.0 32.0 42.0 52.0 Center 443.1 MHz Span 120 kHz Total Power Ref 33.33 dBm/0.0125 MHz <table><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><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></table> Frequency Center Freq 443.050000 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	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	—	(—)	—	—	(—)	—
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	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	—	(—)	—	—	(—)	—																																																										
TX-DNH	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 443.050000 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 28 dB Ref 38.0 dBm 10 dB/div Log 28.0 18.0 8.00 2.00 12.0 22.0 32.0 42.0 52.0 Center 443.1 MHz Span 120 kHz Total Power Ref 36.47 dBm/0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>23.94</td><td>(-9.95)</td><td>-50.00</td><td>26.26</td><td>(-7.63)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.44</td><td>(-1.08)</td><td>-12.20 k</td><td>-39.94</td><td>(-3.48)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.24</td><td>(-19.24)</td><td>-13.75 k</td><td>-39.24</td><td>(-19.24)</td><td>13.15 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></table> Frequency Center Freq 443.050000 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	23.94	(-9.95)	-50.00	26.26	(-7.63)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.44	(-1.08)	-12.20 k	-39.94	(-3.48)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.24	(-19.24)	-13.75 k	-39.24	(-19.24)	13.15 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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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12.50 kHz	60.00 kHz	100.0 Hz	-39.24	(-19.24)	-13.75 k	-39.24	(-19.24)	13.15 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	—	(—)	—	—	(—)	—																																																										
TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 479.987500 MHz Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS Ref Offset 27 dB Ref 38.0 dBm 10 dB/div Log 28.0 18.0 8.00 2.00 12.0 22.0 32.0 42.0 52.0 Center 480 MHz Span 120 kHz Total Power Ref 32.90 dBm/0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>32.60</td><td>(-1.53)</td><td>-50.00</td><td>28.96</td><td>(-5.17)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.96</td><td>(-5.57)</td><td>-12.10 k</td><td>-40.00</td><td>(-6.70)</td><td>11.95 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.54</td><td>(-22.54)</td><td>-15.30 k</td><td>-41.55</td><td>(-21.55)</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></table> Frequency Center Freq 479.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	32.60	(-1.53)	-50.00	28.96	(-5.17)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-39.96	(-5.57)	-12.10 k	-40.00	(-6.70)	11.95 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.54	(-22.54)	-15.30 k	-41.55	(-21.55)	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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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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-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 479.987500 MHz Ref Offset 27 dB Ref 38.0 dBm 10 dB/div Log 26.0 18.0 10.0 2.00 12.00 22.00 32.00 42.00 52.00 Center 480 MHz Span 120 kHz Total Power Ref 36.04 dBm/0.0125 MHz <table><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><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><td>400.0</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><td>12.40 k</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><td>15.90 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></table> Frequency Center Freq 479.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	23.90	(-10.23)	-100.0	25.08	(-9.05)	400.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.98	(-4.77)	-12.35 k	-39.83	(-3.25)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.51	(-19.51)	-14.90 k	-38.46	(-18.46)	15.90 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)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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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	—	(—)	—	—	(—)	—																																																										
TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Ref Offset 27 dB Ref 36.0 dBm 10 dB/div Log 26.0 18.0 10.0 2.00 12.00 22.00 32.00 42.00 52.00 Center 400 MHz Span 120 kHz Total Power Ref 30.47 dBm/0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>30.41</td><td>(-1.38)</td><td>-50.00</td><td>28.99</td><td>(-2.80)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-44.00</td><td>(7.63)</td><td>-12.05 k</td><td>-44.17</td><td>(8.52)</td><td>11.95 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.77</td><td>(-22.77)</td><td>-13.30 k</td><td>-41.94</td><td>(-21.94)</td><td>13.15 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></table> Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	30.41	(-1.38)	-50.00	28.99	(-2.80)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-44.00	(7.63)	-12.05 k	-44.17	(8.52)	11.95 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.77	(-22.77)	-13.30 k	-41.94	(-21.94)	13.15 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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Ref Offset 27 dB Ref 38.0 dBm 10 dB/div Log 26.0 18.0 10.0 2.00 12.00 22.00 32.00 42.00 52.00 Center 400 MHz Span 120 kHz Total Power Ref 33.30 dBm/0.0125 MHz <table><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><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><td>350.0</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><td>12.30 k</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><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></table> Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	22.20	(-9.59)	-750.0	24.46	(-7.33)	350.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.20	(-3.00)	-12.30 k	-43.89	(-5.69)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.97	(-21.97)	-14.55 k	-41.83	(-21.83)	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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 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 _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Ref Offset 27 dB Ref 36.0 dBm 10 dB/div Log 26.0 16.0 6.00 4.00 24.0 34.0 54.0 Center 406 MHz Span 120 kHz Total Power Ref 30.27 dBm 0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>30.27</td><td>(-1.37)</td><td>-50.00</td><td>28.78</td><td>(2.86)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-48.09</td><td>(-8.28)</td><td>-12.50 k</td><td>-45.50</td><td>(-6.06)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.01</td><td>(-20.01)</td><td>-12.60 k</td><td>-39.92</td><td>(-19.92)</td><td>12.50 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></table> Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz File <MASK.D.state> recalled STATUS	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	30.27	(-1.37)	-50.00	28.78	(2.86)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-48.09	(-8.28)	-12.50 k	-45.50	(-6.06)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.01	(-20.01)	-12.60 k	-39.92	(-19.92)	12.50 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)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	30.27	(-1.37)	-50.00	28.78	(2.86)	0.0																																																										
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12.50 kHz	60.00 kHz	100.0 Hz	-40.01	(-20.01)	-12.60 k	-39.92	(-19.92)	12.50 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	—	(—)	—	—	(—)	—																																																										
TX-DNL	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Ref Offset 27 dB Ref 36.0 dBm 10 dB/div Log 26.0 16.0 6.00 4.00 24.0 34.0 54.0 Center 406 MHz Span 120 kHz Total Power Ref 33.82 dBm 0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>19.22</td><td>(-12.41)</td><td>-950.0</td><td>23.27</td><td>(-8.36)</td><td>400.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.34</td><td>(-4.62)</td><td>-12.35 k</td><td>-44.07</td><td>(-4.63)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.30</td><td>(-22.30)</td><td>-14.45 k</td><td>-43.35</td><td>(-23.35)</td><td>14.55 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></table> Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz File <Temp.png> saved STATUS	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	19.22	(-12.41)	-950.0	23.27	(-8.36)	400.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.34	(-4.62)	-12.35 k	-44.07	(-4.63)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.30	(-22.30)	-14.45 k	-43.35	(-23.35)	14.55 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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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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	—	(—)	—	—	(—)	—																																																										
TX-DNL	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Ref Offset 27 dB Ref 36.0 dBm 10 dB/div Log 26.0 16.0 6.00 4.00 24.0 34.0 54.0 Center 406.1 MHz Span 120 kHz Total Power Ref 30.22 dBm 0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>30.18</td><td>(-1.37)</td><td>-50.00</td><td>28.55</td><td>(2.99)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-48.53</td><td>(-8.64)</td><td>-12.50 k</td><td>-41.47</td><td>(-1.58)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.50</td><td>(-22.50)</td><td>-15.60 k</td><td>-42.29</td><td>(-22.29)</td><td>15.45 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></table> Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz File <MASK.D.state> recalled STATUS	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	30.18	(-1.37)	-50.00	28.55	(2.99)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-48.53	(-8.64)	-12.50 k	-41.47	(-1.58)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.50	(-22.50)	-15.60 k	-42.29	(-22.29)	15.45 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)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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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 _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Ref Offset 27 dB Ref 36.0 dBm 10 dB/div Log 26.0 16.0 6.00 4.00 24.0 34.0 44.0 54.0 Center 406.1 MHz Span 120 kHz Total Power Ref 34.26 dBm 0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>19.80</td><td>(-11.75)</td><td>-150.0</td><td>26.19</td><td>(-5.36)</td><td>450.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.59</td><td>(-5.06)</td><td>-11.90 k</td><td>-42.75</td><td>(-2.86)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.81</td><td>(-21.81)</td><td>-13.70 k</td><td>-42.25</td><td>(-22.25)</td><td>16.40 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></table> Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	19.80	(-11.75)	-150.0	26.19	(-5.36)	450.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.59	(-5.06)	-11.90 k	-42.75	(-2.86)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.81	(-21.81)	-13.70 k	-42.25	(-22.25)	16.40 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	—	(—)	—	—	(—)	—
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	19.80	(-11.75)	-150.0	26.19	(-5.36)	450.0																																																										
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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	—	(—)	—	—	(—)	—																																																										
TX-DNL	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 443.050000 MHz Ref Offset 28 dB Ref 36.0 dBm 10 dB/div Log 26.0 16.0 6.00 4.00 24.0 34.0 44.0 54.0 Center 443.1 MHz Span 120 kHz Total Power Ref 31.34 dBm 0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>31.23</td><td>(-0.68)</td><td>-100.0</td><td>28.46</td><td>(-3.46)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-46.40</td><td>(-6.88)</td><td>-12.50 k</td><td>-47.52</td><td>(-8.73)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.17</td><td>(-21.17)</td><td>-15.45 k</td><td>-41.76</td><td>(-21.76)</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></table> Frequency Center Freq 443.050000 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	31.23	(-0.68)	-100.0	28.46	(-3.46)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-46.40	(-6.88)	-12.50 k	-47.52	(-8.73)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.17	(-21.17)	-15.45 k	-41.76	(-21.76)	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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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TX-DNL	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 443.050000 MHz Ref Offset 28 dB Ref 36.0 dBm 10 dB/div Log 26.0 16.0 6.00 4.00 24.0 34.0 44.0 54.0 Center 443.1 MHz Span 120 kHz Total Power Ref 33.57 dBm 0.0125 MHz <table><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><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><td>450.0</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><td>12.10 k</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><td>12.75 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></table> Frequency Center Freq 443.050000 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	21.99	(-9.92)	-450.0	24.93	(-6.99)	450.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.16	(-4.37)	-12.40 k	-41.34	(-4.72)	12.10 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.04	(-20.04)	-13.00 k	-40.79	(-20.79)	12.75 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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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8.000 MHz	12.50 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 _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 479.987500 MHz Ref Offset 27 dB Ref 35.0 dBm 10 dB/div Log 25.0 15.0 5.00 5.00 15.0 25.0 35.0 45.0 55.0 Center 480 MHz Span 120 kHz Total Power Ref 29.92 dBm 0.0125 MHz <table><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><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><td>0.0</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><td>12.30 k</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><td>14.85 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></table> File <MASK.D.state> recalled STATUS Frequency Center Freq 479.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	29.91	(-1.35)	-50.00	28.07	(-3.19)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-46.05	(-6.59)	-12.40 k	-45.38	(-6.65)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.24	(-22.24)	-14.95 k	-42.32	(-22.32)	14.85 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	—	(—)	—	—	(—)	—	
			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	29.91	(-1.35)	-50.00	28.07	(-3.19)	0.0																																																											
5.625 kHz	12.50 kHz	100.0 Hz	-46.05	(-6.59)	-12.40 k	-45.38	(-6.65)	12.30 k																																																											
12.50 kHz	60.00 kHz	100.0 Hz	-42.24	(-22.24)	-14.95 k	-42.32	(-22.32)	14.85 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	—	(—)	—	—	(—)	—																																																											
TX-DNL	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 479.987500 MHz Ref Offset 27 dB Ref 35.0 dBm 10 dB/div Log 25.0 15.0 5.00 5.00 15.0 25.0 35.0 45.0 55.0 Center 480 MHz Span 120 kHz Total Power Ref 33.37 dBm 0.0125 MHz <table><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><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>20.65</td><td>(-10.61)</td><td>-1.050 k</td><td>21.36</td><td>(-9.90)</td><td>350.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.95</td><td>(-22.77)</td><td>-12.50 k</td><td>-40.70</td><td>(-3.07)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.91</td><td>(-20.91)</td><td>-12.85 k</td><td>-42.08</td><td>(-22.08)</td><td>18.55 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></table> File <Temp.png> saved STATUS Frequency Center Freq 479.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	20.65	(-10.61)	-1.050 k	21.36	(-9.90)	350.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.95	(-22.77)	-12.50 k	-40.70	(-3.07)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.91	(-20.91)	-12.85 k	-42.08	(-22.08)	18.55 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	—	(—)	—	—	(—)	—	
			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	20.65	(-10.61)	-1.050 k	21.36	(-9.90)	350.0																																																											
5.625 kHz	12.50 kHz	100.0 Hz	-42.95	(-22.77)	-12.50 k	-40.70	(-3.07)	12.15 k																																																											
12.50 kHz	60.00 kHz	100.0 Hz	-40.91	(-20.91)	-12.85 k	-42.08	(-22.08)	18.55 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	—	(—)	—	—	(—)	—																																																											

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

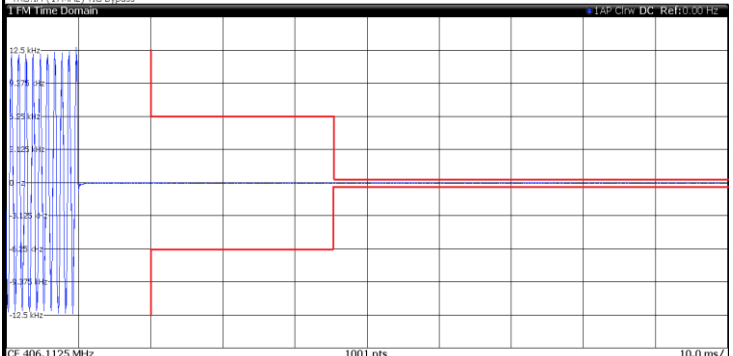
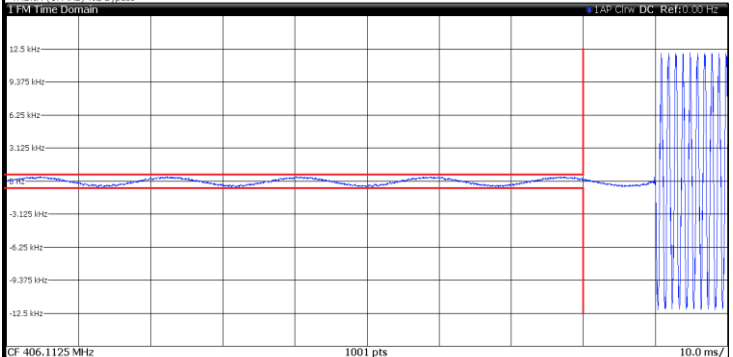
Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)					Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _{M1}	CH _{M2}	CH _{M3}	CH _H		
TX-DNH	4FSK	V _N	-30	-0.134	-0.105	-0.117	-0.125	-0.151	±5.0	PASS
TX-DNH	4FSK	V _N	-20	-0.118	-0.104	-0.112	-0.111	-0.142	±5.0	PASS
TX-DNH	4FSK	V _N	-10	-0.117	-0.097	-0.102	-0.104	-0.132	±5.0	PASS
TX-DNH	4FSK	V _N	0	-0.101	-0.085	-0.097	-0.094	-0.119	±5.0	PASS
TX-DNH	4FSK	V _N	10	-0.097	-0.078	-0.088	-0.092	-0.114	±5.0	PASS
TX-DNH	4FSK	V _N	20	-0.084	-0.070	-0.076	-0.078	-0.095	±5.0	PASS
TX-DNH	4FSK	V _N	30	-0.097	-0.088	-0.093	-0.096	-0.111	±5.0	PASS
TX-DNH	4FSK	V _N	40	-0.107	-0.090	-0.097	-0.098	-0.119	±5.0	PASS
TX-DNH	4FSK	V _N	55	-0.120	-0.097	-0.103	-0.108	-0.130	±5.0	PASS
TX-DNL	4FSK	V _N	-30	-0.130	-0.107	-0.112	-0.132	-0.134	±5.0	PASS
TX-DNL	4FSK	V _N	-20	-0.122	-0.099	-0.107	-0.123	-0.128	±5.0	PASS
TX-DNL	4FSK	V _N	-10	-0.117	-0.093	-0.099	-0.116	-0.119	±5.0	PASS
TX-DNL	4FSK	V _N	0	-0.103	-0.082	-0.091	-0.111	-0.109	±5.0	PASS
TX-DNL	4FSK	V _N	10	-0.094	-0.075	-0.085	-0.099	-0.098	±5.0	PASS
TX-DNL	4FSK	V _N	20	-0.085	<u>-0.067</u>	-0.073	-0.086	-0.089	±5.0	PASS
TX-DNL	4FSK	V _N	30	-0.105	-0.082	-0.087	-0.101	-0.103	±5.0	PASS
TX-DNL	4FSK	V _N	40	-0.109	-0.090	-0.092	-0.115	-0.112	±5.0	PASS
TX-DNL	4FSK	V _N	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 _L	CH _{M1}	CH _{M2}	CH _{M3}	CH _H		
TX-DNH	4FSK	V _N	T _N	-0.084	<u>-0.070</u>	-0.076	-0.078	-0.095	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	-0.118	-0.090	-0.097	-0.094	-0.124	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	-0.102	-0.075	-0.086	-0.084	-0.099	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	-0.085	<u>-0.067</u>	-0.073	-0.086	-0.089	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	-0.102	-0.080	-0.094	-0.107	-0.109	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	-0.089	-0.070	-0.085	-0.096	-0.097	±5.0	PASS

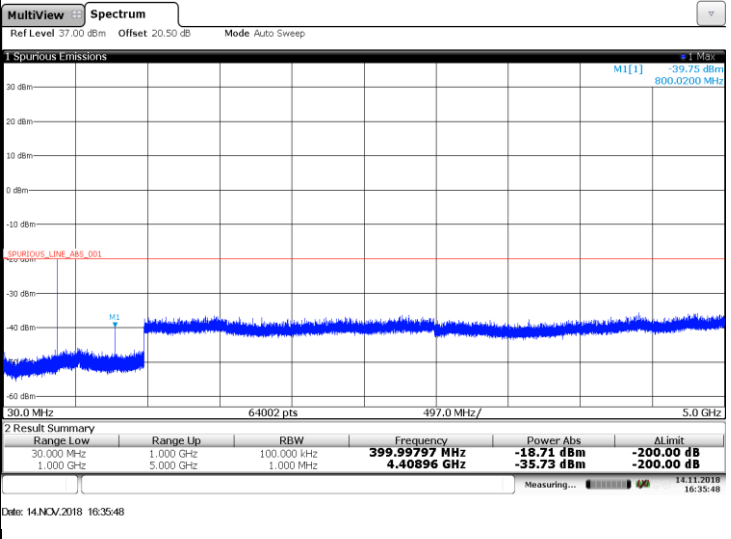
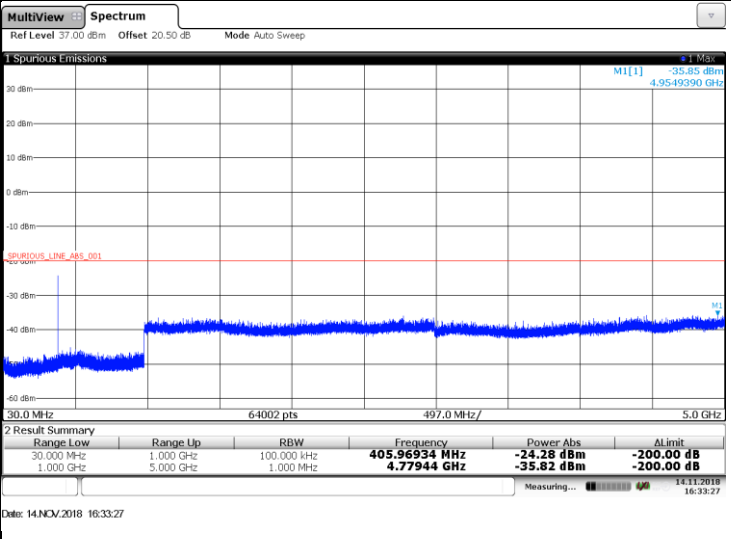
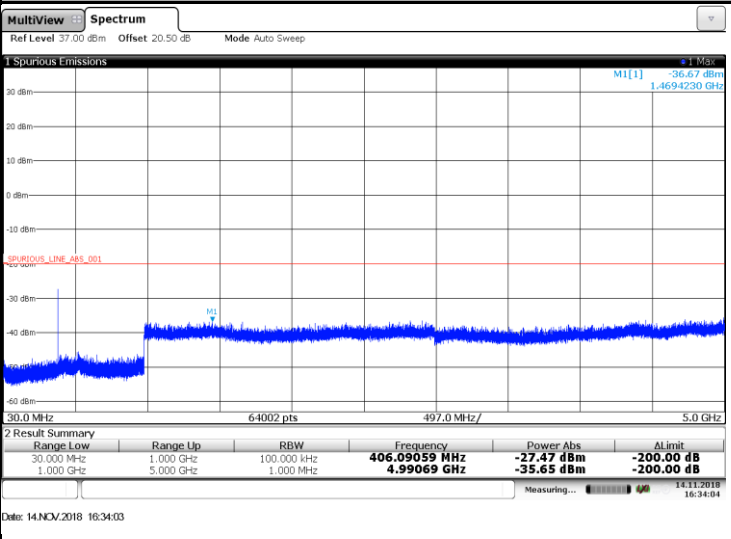


Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																		
TX-DNH	4FSK	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 35.00 dBm Offset 27.50 dB Att 17 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG:IFPK(17MHz) YIG Bypass 1 FM Time Domain  CF 406.1125 MHz1001 pts10.0 ms/ 4 Result Summary <table><tr><td></td><td>Carrier Power</td><td>34.01 dBm</td><td>Carrier Offset</td><td>-68.17 Hz</td><td>Mod. Freq.</td><td>1000.0 Hz</td><td>SINAD</td><td>THD</td></tr><tr><td>FM</td><td>+Peak</td><td>12.739 kHz</td><td>-Peak</td><td>-12.385 kHz</td><td>+Peak/2</td><td>12.562 kHz</td><td>RMS</td><td>8.7434 kHz</td></tr></table> Analog Demod: Waiting for Trigger...Measuring...14.11.2018 17:03:32 Date: 14.NOV.2018 17:03:31 OFF~ON		Carrier Power	34.01 dBm	Carrier Offset	-68.17 Hz	Mod. Freq.	1000.0 Hz	SINAD	THD	FM	+Peak	12.739 kHz	-Peak	-12.385 kHz	+Peak/2	12.562 kHz	RMS	8.7434 kHz
	Carrier Power	34.01 dBm	Carrier Offset	-68.17 Hz	Mod. Freq.	1000.0 Hz	SINAD	THD													
FM	+Peak	12.739 kHz	-Peak	-12.385 kHz	+Peak/2	12.562 kHz	RMS	8.7434 kHz													
TX-DNH	4FSK	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 35.00 dBm Offset 27.50 dB Att 17 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG:IFPK(17MHz) YIG Bypass 1 FM Time Domain  CF 406.1125 MHz1001 pts10.0 ms/ 4 Result Summary <table><tr><td></td><td>Carrier Power</td><td>33.96 dBm</td><td>Carrier Offset</td><td>-76.37 Hz</td><td>Mod. Freq.</td><td>1.0 kHz</td><td>SINAD</td><td>THD</td></tr><tr><td>FM</td><td>+Peak</td><td>12.1 kHz</td><td>-Peak</td><td>-12.16 kHz</td><td>+Peak/2</td><td>12.13 kHz</td><td>RMS</td><td>8.7499 kHz</td></tr></table> Analog Demod: Waiting for Trigger...Measuring...14.11.2018 17:05:29 Date: 14.NOV.2018 17:05:29 ON-OFF		Carrier Power	33.96 dBm	Carrier Offset	-76.37 Hz	Mod. Freq.	1.0 kHz	SINAD	THD	FM	+Peak	12.1 kHz	-Peak	-12.16 kHz	+Peak/2	12.13 kHz	RMS	8.7499 kHz
	Carrier Power	33.96 dBm	Carrier Offset	-76.37 Hz	Mod. Freq.	1.0 kHz	SINAD	THD													
FM	+Peak	12.1 kHz	-Peak	-12.16 kHz	+Peak/2	12.13 kHz	RMS	8.7499 kHz													

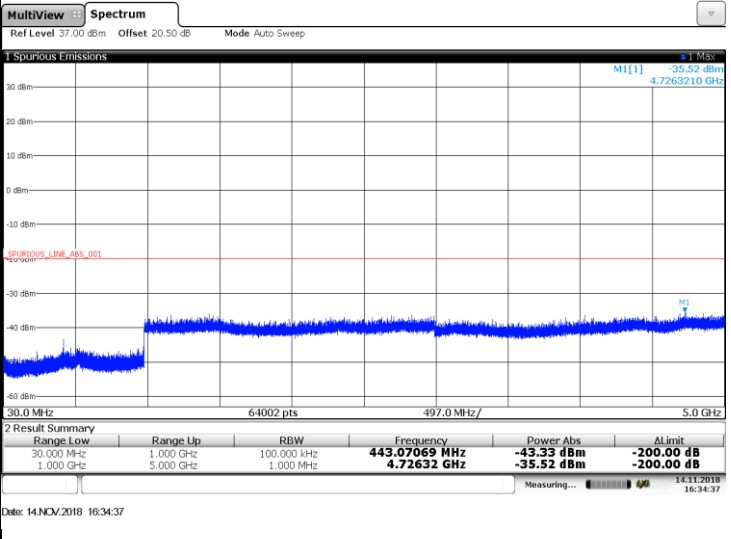
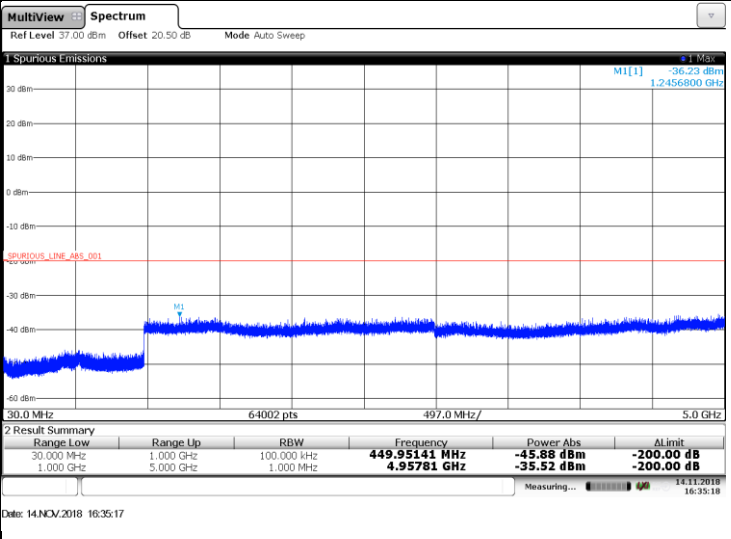


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	
TX-DNH	4FSK	CH _{M1}	
TX-DNH	4FSK	CH _{M2}	



Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M3}	
TX-DNH	4FSK	CH _H	

----End of Report----