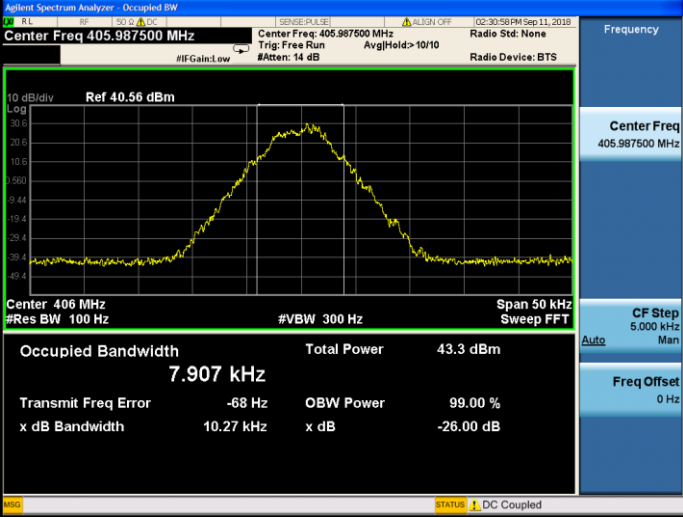
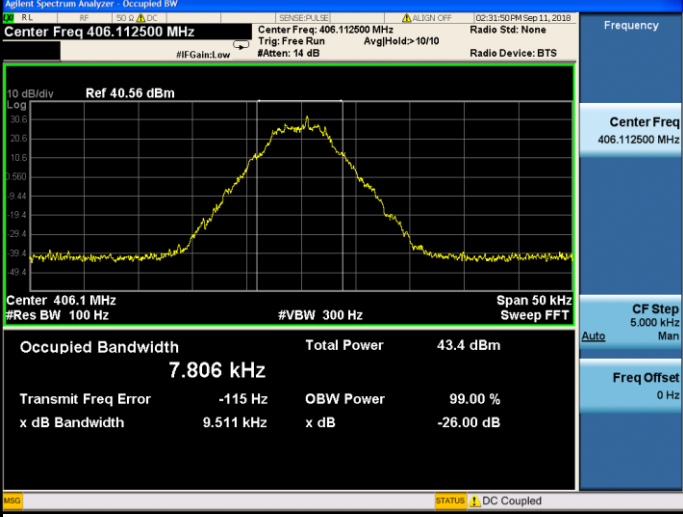
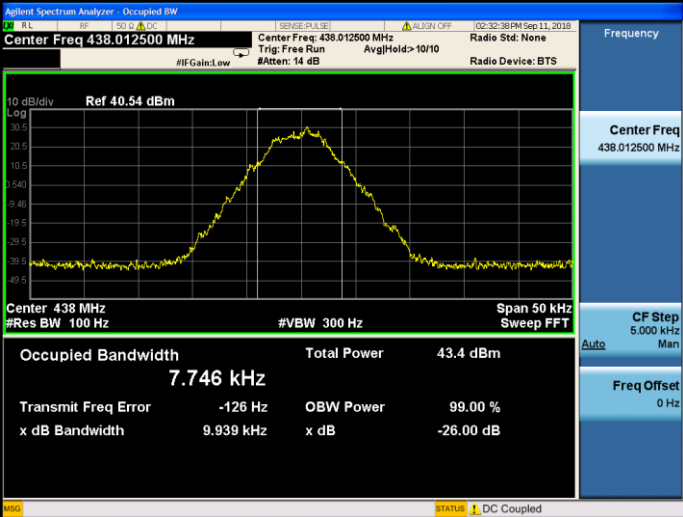


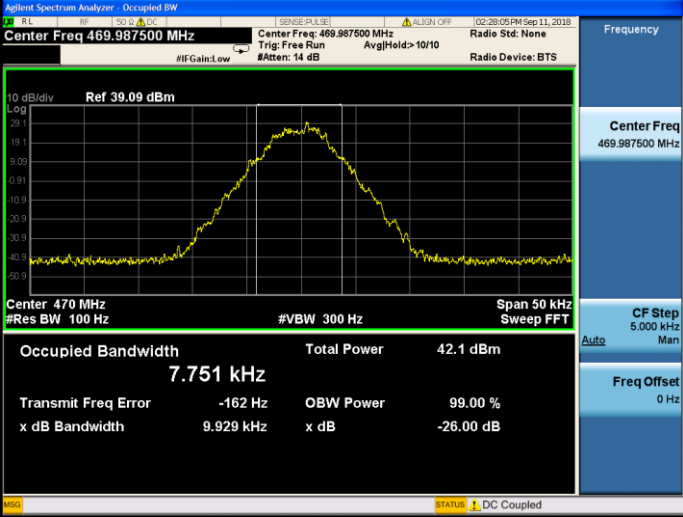
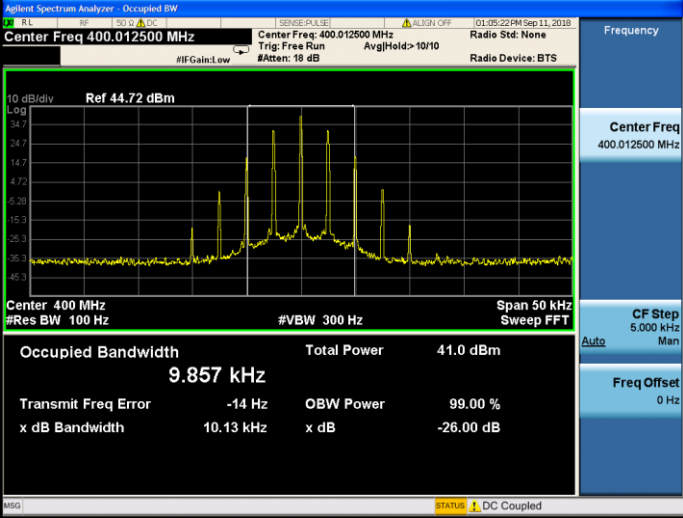
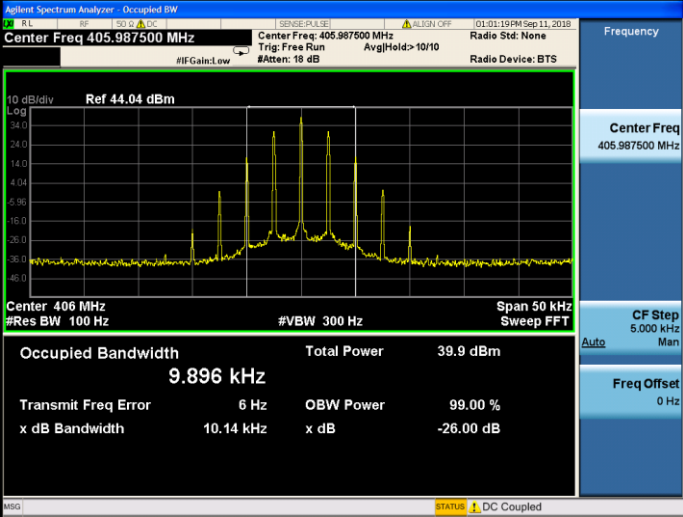


Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _{M1}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Trig: Free Run AvgHld: 10/10 Radio Std: None Radio Device: BTS Ref 40.56 dBm 10 dB/div Center 406 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.907 kHz Total Power 43.3 dBm Transmit Freq Error -68 Hz OBW Power x dB 99.00 % x dB Bandwidth 10.27 kHz -26.00 dB STATUS DC Coupled
TX-DNL	4FSK	CH _{M2}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run AvgHld: 10/10 Radio Std: None Radio Device: BTS Ref 40.56 dBm 10 dB/div Center 406.1 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.806 kHz Total Power 43.4 dBm Transmit Freq Error -115 Hz OBW Power x dB 99.00 % x dB Bandwidth 9.511 kHz -26.00 dB STATUS DC Coupled
TX-DNL	4FSK	CH _{M3}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Trig: Free Run AvgHld: 10/10 Radio Std: None Radio Device: BTS Ref 40.54 dBm 10 dB/div Center 438 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.746 kHz Total Power 43.4 dBm Transmit Freq Error -126 Hz OBW Power x dB 99.00 % x dB Bandwidth 9.939 kHz -26.00 dB STATUS DC Coupled

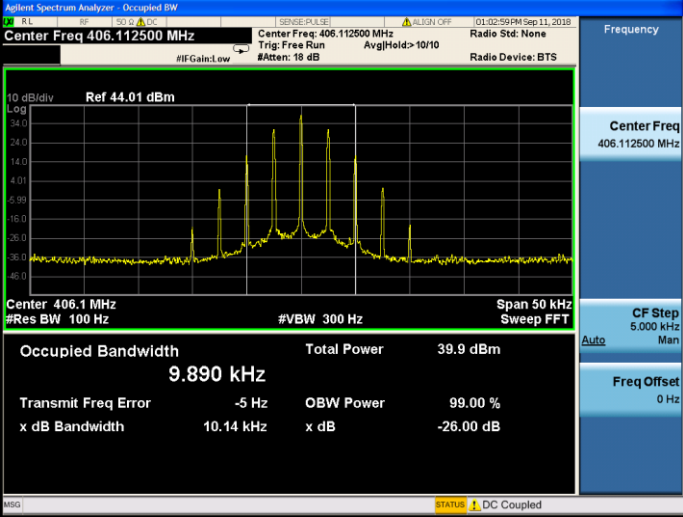
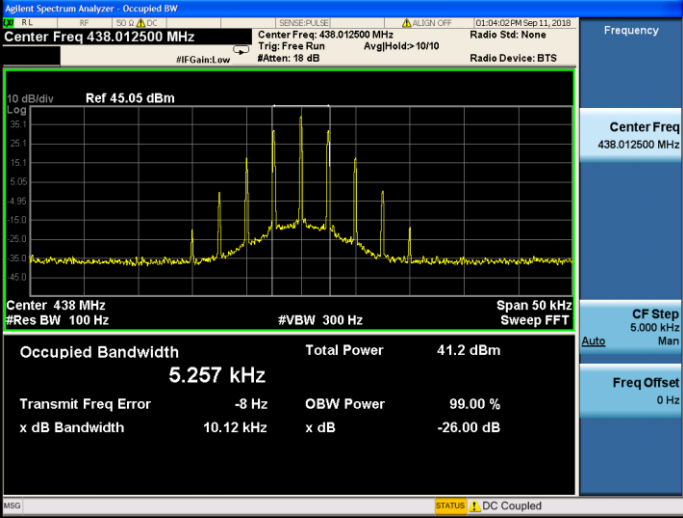
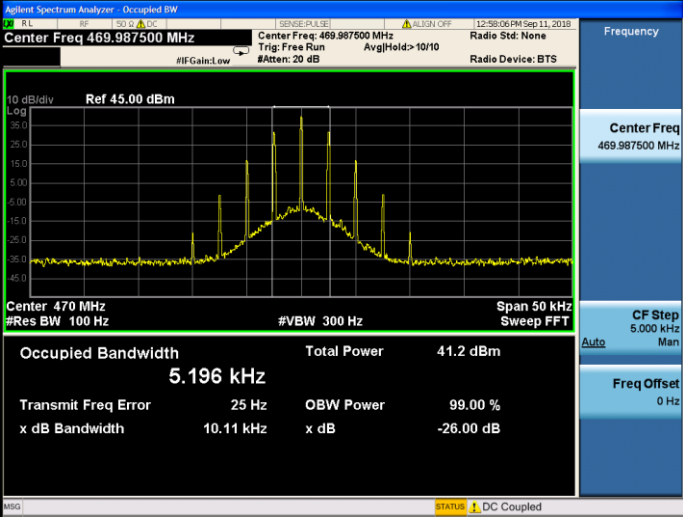


Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _H	
TX-ANH	FM	CH _L	
TX-ANH	FM	CH _{M1}	



Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _{M2}	
TX-ANH	FM	CH _{M3}	
TX-ANH	FM	CH _H	



Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Occupied BW Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Trig: Free Run AvgHld: 10/10 Radio Std: None Radio Device: BTS Ref 41.36 dBm 10 dB/div Center 400 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.829 kHz Total Power 37.7 dBm Transmit Freq Error -17 Hz OBW Power 99.00 % x dB Bandwidth 10.13 kHz x dB -26.00 dB MSG STATUS DC Coupled
TX-ANL	FM	CH _{M1}	Agilent Spectrum Analyzer - Occupied BW Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Trig: Free Run AvgHld: 10/10 Radio Std: None Radio Device: BTS Ref 40.12 dBm 10 dB/div Center 406 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.891 kHz Total Power 36.1 dBm Transmit Freq Error 0 Hz OBW Power 99.00 % x dB Bandwidth 10.14 kHz x dB -26.00 dB MSG STATUS DC Coupled
TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Occupied BW Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run AvgHld: 10/10 Radio Std: None Radio Device: BTS Ref 40.08 dBm 10 dB/div Center 406.1 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.889 kHz Total Power 36.2 dBm Transmit Freq Error -9 Hz OBW Power 99.00 % x dB Bandwidth 10.13 kHz x dB -26.00 dB MSG STATUS DC Coupled



Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _{M3}	Agilent Spectrum Analyzer - Occupied BW Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS #IF Gain: Low #Atten: 14 dB Ref 40.36 dBm 10 dB/div Center 438 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 5.268 kHz Total Power 36.9 dBm Transmit Freq Error -15 Hz OBW Power 99.00 % x dB Bandwidth 10.13 kHz x dB -26.00 dB MSG STATUS DC Coupled
TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Occupied BW Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS #IF Gain: Low #Atten: 14 dB Ref 39.32 dBm 10 dB/div Center 470 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 5.196 kHz Total Power 35.4 dBm Transmit Freq Error 23 Hz OBW Power 99.00 % x dB Bandwidth 10.11 kHz x dB -26.00 dB MSG STATUS DC Coupled



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 Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS Ref Offset 37 dB Ref 46.0 dBm 10 dB/div Log 36.0 30.0 24.0 18.0 12.0 6.0 0.0 -6.0 -12.0 -18.0 -24.0 -30.0 -36.0 -42.0 Center 400 MHz Span 120 kHz Total Power Ref 40.36 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>40.31</td><td>(-2.16)</td><td>-50.00</td><td>39.77</td><td>(-2.70)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>35.55</td><td>(-7.30)</td><td>-12.40 k</td><td>-34.63</td><td>(-7.11)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.57</td><td>(-14.57)</td><td>-15.65 k</td><td>-33.58</td><td>(-13.58)</td><td>15.55 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 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	40.31	(-2.16)	-50.00	39.77	(-2.70)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	35.55	(-7.30)	-12.40 k	-34.63	(-7.11)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.57	(-14.57)	-15.65 k	-33.58	(-13.58)	15.55 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	40.31	(-2.16)	-50.00	39.77	(-2.70)	0.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	35.55	(-7.30)	-12.40 k	-34.63	(-7.11)	12.30 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-34.57	(-14.57)	-15.65 k	-33.58	(-13.58)	15.55 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	—	(—)	—	—	(—)	—																																																										
TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 37 dB Ref 46.0 dBm 10 dB/div Log 36.0 30.0 24.0 18.0 12.0 6.0 0.0 -6.0 -12.0 -18.0 -24.0 -30.0 -36.0 -42.0 Center 400 MHz Span 120 kHz Total Power Ref 44.41 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>32.76</td><td>(-9.71)</td><td>-100.0</td><td>31.42</td><td>(-11.05)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.57</td><td>(-5.60)</td><td>-12.50 k</td><td>-30.52</td><td>(-3.73)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-30.08</td><td>(-10.08)</td><td>-14.40 k</td><td>-30.46</td><td>(-10.46)</td><td>13.35 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> File <Temp.png> saved 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	32.76	(-9.71)	-100.0	31.42	(-11.05)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.57	(-5.60)	-12.50 k	-30.52	(-3.73)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-30.08	(-10.08)	-14.40 k	-30.46	(-10.46)	13.35 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)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	32.76	(-9.71)	-100.0	31.42	(-11.05)	250.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-34.57	(-5.60)	-12.50 k	-30.52	(-3.73)	12.20 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-30.08	(-10.08)	-14.40 k	-30.46	(-10.46)	13.35 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	—	(—)	—	—	(—)	—																																																										
TX-DNH	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS Ref Offset 37 dB Ref 46.0 dBm 10 dB/div Log 36.0 30.0 24.0 18.0 12.0 6.0 0.0 -6.0 -12.0 -18.0 -24.0 -30.0 -36.0 -42.0 Center 406 MHz Span 120 kHz Total Power Ref 40.03 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>39.87</td><td>(-1.89)</td><td>-50.00</td><td>39.81</td><td>(-1.94)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-33.63</td><td>(-4.31)</td><td>-12.45 k</td><td>-33.74</td><td>(-4.79)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-32.29</td><td>(-12.29)</td><td>-13.45 k</td><td>-33.18</td><td>(-13.18)</td><td>13.45 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> File <MASK D.state> recalled 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	39.87	(-1.89)	-50.00	39.81	(-1.94)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-33.63	(-4.31)	-12.45 k	-33.74	(-4.79)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-32.29	(-12.29)	-13.45 k	-33.18	(-13.18)	13.45 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)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	39.87	(-1.89)	-50.00	39.81	(-1.94)	0.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-33.63	(-4.31)	-12.45 k	-33.74	(-4.79)	12.40 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-32.29	(-12.29)	-13.45 k	-33.18	(-13.18)	13.45 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	—	(—)	—	—	(—)	—																																																										

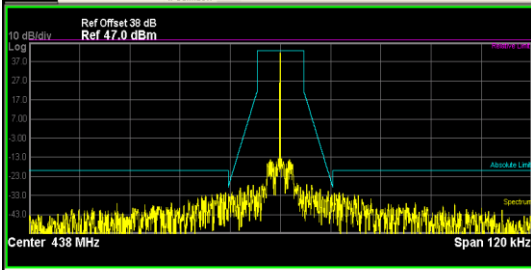
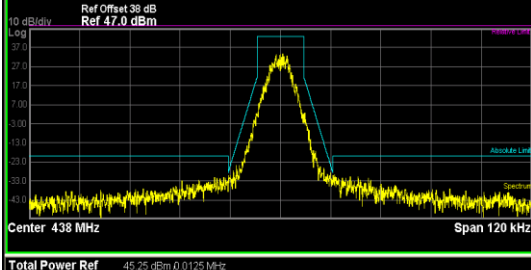
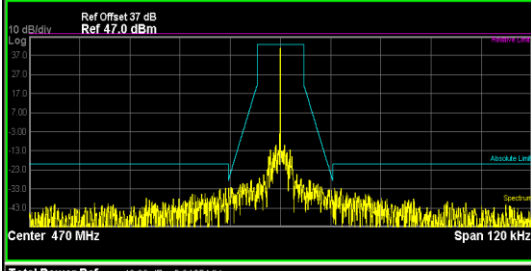


Appendix C:Emission Mask

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 PASS Ref Offset 37 dB Ref 46.0 dBm Center 406 MHz Span 120 kHz Total Power Ref 44.35 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>29.84</td><td>(-11.92)</td><td>-1.000 k</td><td>32.50</td><td>(-9.26)</td><td>1.000 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-32.08</td><td>(-2.40)</td><td>-12.50 k</td><td>-32.86</td><td>(-3.18)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-31.61</td><td>(-11.61)</td><td>-15.15 k</td><td>-29.94</td><td>(-9.94)</td><td>16.20 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto 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	29.84	(-11.92)	-1.000 k	32.50	(-9.26)	1.000 k	5.625 kHz	12.50 kHz	100.0 Hz	-32.08	(-2.40)	-12.50 k	-32.86	(-3.18)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-31.61	(-11.61)	-15.15 k	-29.94	(-9.94)	16.20 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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	29.84	(-11.92)	-1.000 k	32.50	(-9.26)	1.000 k																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-32.08	(-2.40)	-12.50 k	-32.86	(-3.18)	12.50 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-31.61	(-11.61)	-15.15 k	-29.94	(-9.94)	16.20 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz PASS Ref Offset 37 dB Ref 46.0 dBm Center 406.1 MHz Span 120 kHz Total Power Ref 40.45 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>39.86</td><td>(-1.89)</td><td>0.0</td><td>39.86</td><td>(-1.89)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-37.64</td><td>(-9.04)</td><td>-12.35 k</td><td>-38.31</td><td>(-10.07)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-32.48</td><td>(-12.48)</td><td>-13.40 k</td><td>-32.49</td><td>(-12.49)</td><td>13.35 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 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	39.86	(-1.89)	0.0	39.86	(-1.89)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.64	(-9.04)	-12.35 k	-38.31	(-10.07)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-32.48	(-12.48)	-13.40 k	-32.49	(-12.49)	13.35 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)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	39.86	(-1.89)	0.0	39.86	(-1.89)	0.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-37.64	(-9.04)	-12.35 k	-38.31	(-10.07)	12.30 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-32.48	(-12.48)	-13.40 k	-32.49	(-12.49)	13.35 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	—	(—)	—	—	(—)	—																																																										
TX-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz PASS Ref Offset 37 dB Ref 46.0 dBm Center 406.1 MHz Span 120 kHz Total Power Ref 43.19 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>30.82</td><td>(-10.93)</td><td>-600.0</td><td>32.13</td><td>(-9.61)</td><td>500.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-33.47</td><td>(-3.78)</td><td>-12.50 k</td><td>-35.14</td><td>(-5.81)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-31.26</td><td>(-11.26)</td><td>-18.20 k</td><td>-31.51</td><td>(-11.51)</td><td>12.70 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></table> Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Auto 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	30.82	(-10.93)	-600.0	32.13	(-9.61)	500.0	5.625 kHz	12.50 kHz	100.0 Hz	-33.47	(-3.78)	-12.50 k	-35.14	(-5.81)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-31.26	(-11.26)	-18.20 k	-31.51	(-11.51)	12.70 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	—	(—)	—	—	(—)	—
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	30.82	(-10.93)	-600.0	32.13	(-9.61)	500.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-33.47	(-3.78)	-12.50 k	-35.14	(-5.81)	12.45 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-31.26	(-11.26)	-18.20 k	-31.51	(-11.51)	12.70 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	—	(—)	—	—	(—)	—																																																										



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 438.012500 MHz PASS Ref Offset 38 dB Ref 47.0 dBm  Center 438 MHz Span 120 kHz Total Power Ref 41.83 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>41.82</td><td>(-0.93)</td><td>-50.00</td><td>41.42</td><td>(-1.32)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-32.31</td><td>(-3.98)</td><td>-12.45 k</td><td>-32.81</td><td>(-4.84)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-31.62</td><td>(-11.62)</td><td>-13.05 k</td><td>-31.55</td><td>(-11.55)</td><td>14.15 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 438.012500 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	41.82	(-0.93)	-50.00	41.42	(-1.32)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-32.31	(-3.98)	-12.45 k	-32.81	(-4.84)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-31.62	(-11.62)	-13.05 k	-31.55	(-11.55)	14.15 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)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	41.82	(-0.93)	-50.00	41.42	(-1.32)	0.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-32.31	(-3.98)	-12.45 k	-32.81	(-4.84)	12.40 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-31.62	(-11.62)	-13.05 k	-31.55	(-11.55)	14.15 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 _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz PASS Ref Offset 38 dB Ref 47.0 dBm  Center 438 MHz Span 120 kHz Total Power Ref 45.25 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>33.29</td><td>(-9.45)</td><td>-950.0</td><td>33.62</td><td>(-9.12)</td><td>550.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-30.18</td><td>(-1.85)</td><td>-12.45 k</td><td>-32.89</td><td>(-4.19)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-31.03</td><td>(-11.03)</td><td>-15.65 k</td><td>-29.81</td><td>(-9.81)</td><td>13.00 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 438.012500 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	33.29	(-9.45)	-950.0	33.62	(-9.12)	550.0	5.625 kHz	12.50 kHz	100.0 Hz	-30.18	(-1.85)	-12.45 k	-32.89	(-4.19)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-31.03	(-11.03)	-15.65 k	-29.81	(-9.81)	13.00 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	33.29	(-9.45)	-950.0	33.62	(-9.12)	550.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-30.18	(-1.85)	-12.45 k	-32.89	(-4.19)	12.50 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-31.03	(-11.03)	-15.65 k	-29.81	(-9.81)	13.00 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 469.987500 MHz PASS Ref Offset 37 dB Ref 47.0 dBm  Center 470 MHz Span 120 kHz Total Power Ref 40.96 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>40.89</td><td>(-1.82)</td><td>0.0</td><td>40.89</td><td>(-1.82)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-32.60</td><td>(-4.96)</td><td>-12.35 k</td><td>-33.69</td><td>(-6.41)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-32.49</td><td>(-12.49)</td><td>-13.05 k</td><td>-32.52</td><td>(-12.52)</td><td>13.05 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> Frequency Center Freq 469.987500 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	40.89	(-1.82)	0.0	40.89	(-1.82)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-32.60	(-4.96)	-12.35 k	-33.69	(-6.41)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-32.49	(-12.49)	-13.05 k	-32.52	(-12.52)	13.05 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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	40.89	(-1.82)	0.0	40.89	(-1.82)	0.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-32.60	(-4.96)	-12.35 k	-33.69	(-6.41)	12.30 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-32.49	(-12.49)	-13.05 k	-32.52	(-12.52)	13.05 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 09:36:04PM Sep 11, 2018 Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS PASS IF Gain: Low #Atten: 40 dB Ref Offset 37 dB Ref 47.0 dBm 10 dB/div Log 37.0 27.0 17.0 7.0 3.0 0.0 -7.0 -17.0 -27.0 -37.0 -47.0 Center 470 MHz Span 120 kHz Total Power Ref 44.74 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>33.28</td><td>(-9.43)</td><td>-100.0</td><td>33.86</td><td>(-8.84)</td><td>800.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-31.81</td><td>(-3.08)</td><td>-12.50 k</td><td>-30.79</td><td>(-2.05)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-30.04</td><td>(-10.04)</td><td>-12.50 k</td><td>-31.62</td><td>(-11.62)</td><td>15.00 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 469.987500 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	33.28	(-9.43)	-100.0	33.86	(-8.84)	800.0	5.625 kHz	12.50 kHz	100.0 Hz	-31.81	(-3.08)	-12.50 k	-30.79	(-2.05)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-30.04	(-10.04)	-12.50 k	-31.62	(-11.62)	15.00 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	33.28	(-9.43)	-100.0	33.86	(-8.84)	800.0																																																										
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12.50 kHz	60.00 kHz	100.0 Hz	-30.04	(-10.04)	-12.50 k	-31.62	(-11.62)	15.00 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 _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 09:46:59PM Sep 11, 2018 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS PASS IF Gain: Low #Atten: 40 dB Ref Offset 37 dB Ref 43.0 dBm 10 dB/div Log 33.0 23.0 13.0 3.0 0.0 -7.0 -17.0 -27.0 -37.0 -47.0 Center 400 MHz Span 120 kHz Total Power Ref 37.44 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>37.40</td><td>(-1.56)</td><td>-50.00</td><td>36.50</td><td>(-2.47)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.50</td><td>(-8.94)</td><td>-12.10 k</td><td>-41.39</td><td>(-10.37)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.31</td><td>(-15.31)</td><td>-13.95 k</td><td>-35.35</td><td>(-15.35)</td><td>13.90 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> 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	37.40	(-1.56)	-50.00	36.50	(-2.47)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.50	(-8.94)	-12.10 k	-41.39	(-10.37)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.31	(-15.31)	-13.95 k	-35.35	(-15.35)	13.90 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 RL RF 50.0 AC SENSE PULSE ALIGN OFF 09:47:32PM Sep 11, 2018 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS PASS IF Gain: Low #Atten: 40 dB Ref Offset 37 dB Ref 43.0 dBm 10 dB/div Log 33.0 23.0 13.0 3.0 0.0 -7.0 -17.0 -27.0 -37.0 -47.0 Center 400 MHz Span 120 kHz Total Power Ref 41.79 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>27.50</td><td>(-11.46)</td><td>-50.00</td><td>30.98</td><td>(-7.99)</td><td>1.300 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-33.13</td><td>(-3.20)</td><td>-12.15 k</td><td>-34.33</td><td>(-4.40)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-32.58</td><td>(-12.58)</td><td>-12.80 k</td><td>-33.89</td><td>(-13.89)</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 <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	27.50	(-11.46)	-50.00	30.98	(-7.99)	1.300 k	5.625 kHz	12.50 kHz	100.0 Hz	-33.13	(-3.20)	-12.15 k	-34.33	(-4.40)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-32.58	(-12.58)	-12.80 k	-33.89	(-13.89)	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)																																																										
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12.50 kHz	60.00 kHz	100.0 Hz	-32.58	(-12.58)	-12.80 k	-33.89	(-13.89)	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	—	(—)	—	—	(—)	—																																																										



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 Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS Ref Offset 37 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 8.00 18.0 28.0 38.0 48.0 Center 406 MHz Span 120 kHz Total Power Ref 36.69 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>36.06</td><td>(-1.58)</td><td>-50.00</td><td>36.04</td><td>(-1.60)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.57</td><td>(-5.78)</td><td>-12.50 k</td><td>-39.36</td><td>(-6.29)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.53</td><td>(-17.53)</td><td>-14.55 k</td><td>-38.16</td><td>(-18.16)</td><td>14.50 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> File <MASK D.state> recalled 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	36.06	(-1.58)	-50.00	36.04	(-1.60)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-39.57	(-5.78)	-12.50 k	-39.36	(-6.29)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.53	(-17.53)	-14.55 k	-38.16	(-18.16)	14.50 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)																																																							
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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 _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 37 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 8.00 18.0 28.0 38.0 48.0 Center 406 MHz Span 120 kHz Total Power Ref 39.72 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>26.69</td><td>(-10.95)</td><td>-50.00</td><td>26.12</td><td>(-11.52)</td><td>650.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.12</td><td>(-2.69)</td><td>-12.45 k</td><td>-36.31</td><td>(-3.81)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.12</td><td>(-13.12)</td><td>-14.15 k</td><td>-34.32</td><td>(-14.32)</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> File <Temp.png> saved 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	26.69	(-10.95)	-50.00	26.12	(-11.52)	650.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.12	(-2.69)	-12.45 k	-36.31	(-3.81)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.12	(-13.12)	-14.15 k	-34.32	(-14.32)	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	26.69	(-10.95)	-50.00	26.12	(-11.52)	650.0																																																							
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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 _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS Ref Offset 37 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 8.00 18.0 28.0 38.0 48.0 Center 406.1 MHz Span 120 kHz Total Power Ref 36.78 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>36.18</td><td>(-1.49)</td><td>-50.00</td><td>36.07</td><td>(-1.60)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.16</td><td>(-5.30)</td><td>-12.10 k</td><td>-36.53</td><td>(-4.77)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.59</td><td>(-17.59)</td><td>-15.05 k</td><td>-37.78</td><td>(-17.78)</td><td>18.95 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> File <MASK D.state> recalled 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	36.18	(-1.49)	-50.00	36.07	(-1.60)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.16	(-5.30)	-12.10 k	-36.53	(-4.77)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.59	(-17.59)	-15.05 k	-37.78	(-17.78)	18.95 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)																																																							
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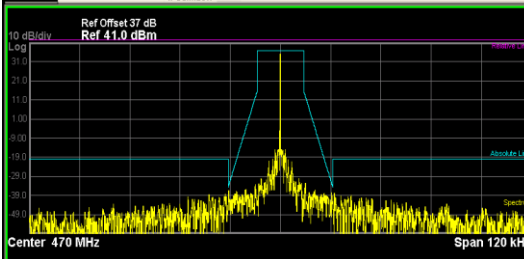
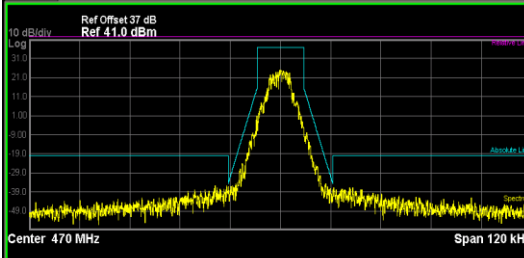
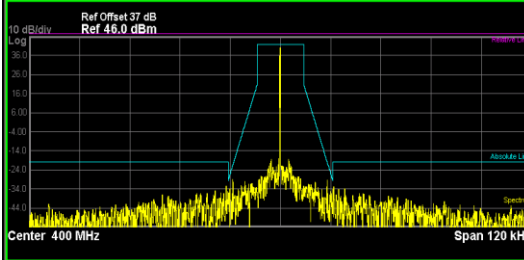


Appendix C:Emission Mask

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 37 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 8.00 18.0 38.0 48.0 Center 406.1 MHz Span 120 kHz Total Power Ref 40.25 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>25.97</td><td>(-11.70)</td><td>-650.0</td><td>27.53</td><td>(-10.14)</td><td>900.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.90</td><td>(-2.50)</td><td>-12.45 k</td><td>-36.79</td><td>(-3.75)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.29</td><td>(-16.29)</td><td>-13.15 k</td><td>-35.00</td><td>(-15.00)</td><td>14.15 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 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	25.97	(-11.70)	-650.0	27.53	(-10.14)	900.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.90	(-2.50)	-12.45 k	-36.79	(-3.75)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.29	(-16.29)	-13.15 k	-35.00	(-15.00)	14.15 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)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	25.97	(-11.70)	-650.0	27.53	(-10.14)	900.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-35.90	(-2.50)	-12.45 k	-36.79	(-3.75)	12.40 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-36.29	(-16.29)	-13.15 k	-35.00	(-15.00)	14.15 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-DNL	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz Ref Offset 38 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 8.00 18.0 38.0 48.0 Center 438 MHz Span 120 kHz Total Power Ref 37.01 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>36.97</td><td>(-1.03)</td><td>-50.00</td><td>36.39</td><td>(-1.60)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.84</td><td>(-1.40)</td><td>-12.50 k</td><td>-35.71</td><td>(-3.00)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.97</td><td>(-15.97)</td><td>-15.20 k</td><td>-36.62</td><td>(-16.62)</td><td>15.10 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> Frequency Center Freq 438.012500 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	36.97	(-1.03)	-50.00	36.39	(-1.60)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.84	(-1.40)	-12.50 k	-35.71	(-3.00)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.97	(-15.97)	-15.20 k	-36.62	(-16.62)	15.10 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)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	36.97	(-1.03)	-50.00	36.39	(-1.60)	0.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-34.84	(-1.40)	-12.50 k	-35.71	(-3.00)	12.40 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-35.97	(-15.97)	-15.20 k	-36.62	(-16.62)	15.10 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	—	(—)	—	—	(—)	—																																																										
TX-DNL	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz Ref Offset 38 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 8.00 18.0 38.0 48.0 Center 438 MHz Span 120 kHz Total Power Ref 40.40 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>27.26</td><td>(-10.73)</td><td>-850.0</td><td>28.73</td><td>(-9.26)</td><td>500.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-31.82</td><td>(-1.65)</td><td>-12.05 k</td><td>-35.35</td><td>(-2.27)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.13</td><td>(-14.13)</td><td>-14.95 k</td><td>-33.81</td><td>(-13.81)</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 438.012500 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	27.26	(-10.73)	-850.0	28.73	(-9.26)	500.0	5.625 kHz	12.50 kHz	100.0 Hz	-31.82	(-1.65)	-12.05 k	-35.35	(-2.27)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.13	(-14.13)	-14.95 k	-33.81	(-13.81)	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)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	27.26	(-10.73)	-850.0	28.73	(-9.26)	500.0																																																										
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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	—	(—)	—	—	(—)	—																																																										



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 469.987500 MHz PASS Ref Offset 37 dB Ref 41.0 dBm  Center 470 MHz Span 120 kHz Total Power Ref 35.16 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>34.96</td><td>(-1.74)</td><td>0.0</td><td>34.96</td><td>(-1.74)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.57</td><td>(-2.92)</td><td>-12.35 k</td><td>-37.43</td><td>(-3.78)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.23</td><td>(-18.23)</td><td>-13.15 k</td><td>-37.74</td><td>(-17.74)</td><td>12.90 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 469.987500 MHz CF Step 12.000 kHz 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	34.96	(-1.74)	0.0	34.96	(-1.74)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.57	(-2.92)	-12.35 k	-37.43	(-3.78)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.23	(-18.23)	-13.15 k	-37.74	(-17.74)	12.90 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)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	34.96	(-1.74)	0.0	34.96	(-1.74)	0.0																																																										
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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 _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz PASS Ref Offset 37 dB Ref 41.0 dBm  Center 470 MHz Span 120 kHz Total Power Ref 39.09 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>(-11.88)</td><td>-100.0</td><td>24.83</td><td>(-11.87)</td><td>200.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.27</td><td>(-1.53)</td><td>-12.50 k</td><td>-39.14</td><td>(-4.40)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.74</td><td>(-15.74)</td><td>-15.60 k</td><td>-36.81</td><td>(-16.81)</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 469.987500 MHz CF Step 12.000 kHz 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	24.82	(-11.88)	-100.0	24.83	(-11.87)	200.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.27	(-1.53)	-12.50 k	-39.14	(-4.40)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.74	(-15.74)	-15.60 k	-36.81	(-16.81)	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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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-ANH	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz PASS Ref Offset 37 dB Ref 48.0 dBm  Center 400 MHz Span 120 kHz Total Power Ref 40.59 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>39.98</td><td>(-1.80)</td><td>-100.0</td><td>35.45</td><td>(-6.33)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.04</td><td>(-7.11)</td><td>-12.40 k</td><td>-36.71</td><td>(-7.05)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-32.39</td><td>(-12.39)</td><td>-12.90 k</td><td>-33.01</td><td>(-13.01)</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 400.012500 MHz CF Step 12.000 kHz 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	39.98	(-1.80)	-100.0	35.45	(-6.33)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.04	(-7.11)	-12.40 k	-36.71	(-7.05)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-32.39	(-12.39)	-12.90 k	-33.01	(-13.01)	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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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-ANH	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Ref Offset 37 dB Ref 46.0 dBm 10 dB/div Log 36.0 30.0 24.0 18.0 12.0 6.0 0.0 -6.0 -12.0 -18.0 -24.0 -30.0 -36.0 -42.0 -48.0 Center 400 MHz Span 120 kHz Total Power Ref 40.47 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>38.62</td><td>(-3.16)</td><td>-50.00</td><td>32.47</td><td>(-9.31)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-30.63</td><td>(-1.34)</td><td>-12.45 k</td><td>-31.34</td><td>(-2.41)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-32.91</td><td>(-12.91)</td><td>-15.50 k</td><td>-31.12</td><td>(-11.12)</td><td>12.70 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></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	38.62	(-3.16)	-50.00	32.47	(-9.31)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-30.63	(-1.34)	-12.45 k	-31.34	(-2.41)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-32.91	(-12.91)	-15.50 k	-31.12	(-11.12)	12.70 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	—	(—)	—	—	(—)	—
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-ANH	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Ref Offset 37 dB Ref 46.0 dBm 10 dB/div Log 36.0 30.0 24.0 18.0 12.0 6.0 0.0 -6.0 -12.0 -18.0 -24.0 -30.0 -36.0 -42.0 -48.0 Center 406 MHz Span 120 kHz Total Power Ref 40.12 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>39.50</td><td>(-2.09)</td><td>-50.00</td><td>39.38</td><td>(-2.21)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.05</td><td>(-6.01)</td><td>-12.25 k</td><td>-34.34</td><td>(-7.03)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.46</td><td>(-13.46)</td><td>-13.45 k</td><td>-32.28</td><td>(-12.28)</td><td>14.50 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	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	39.50	(-2.09)	-50.00	39.38	(-2.21)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.05	(-6.01)	-12.25 k	-34.34	(-7.03)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.46	(-13.46)	-13.45 k	-32.28	(-12.28)	14.50 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)																																																										
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TX-ANH	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Ref Offset 37 dB Ref 46.0 dBm 10 dB/div Log 36.0 30.0 24.0 18.0 12.0 6.0 0.0 -6.0 -12.0 -18.0 -24.0 -30.0 -36.0 -42.0 -48.0 Center 406 MHz Span 120 kHz Total Power Ref 39.95 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>38.08</td><td>(-3.51)</td><td>-50.00</td><td>37.84</td><td>(-3.74)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-30.67</td><td>(-3.00)</td><td>-12.20 k</td><td>-32.28</td><td>(-2.79)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-32.05</td><td>(-12.05)</td><td>-13.45 k</td><td>-31.30</td><td>(-11.30)</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 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	38.08	(-3.51)	-50.00	37.84	(-3.74)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-30.67	(-3.00)	-12.20 k	-32.28	(-2.79)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-32.05	(-12.05)	-13.45 k	-31.30	(-11.30)	12.85 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANH	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Ref Offset 37 dB Ref 46.0 dBm 10 dB/div Log 36.0 30.0 24.0 18.0 12.0 6.0 0.0 36.0 30.0 24.0 18.0 12.0 6.0 0.0 Center 406.1 MHz Span 120 kHz Total Power Ref 39.40 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>39.38</td><td>(-2.17)</td><td>-50.00</td><td>38.48</td><td>(-3.07)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-33.38</td><td>(-8.57)</td><td>-11.80 k</td><td>-33.98</td><td>(-10.27)</td><td>11.65 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.10</td><td>(-14.10)</td><td>-19.65 k</td><td>-35.12</td><td>(-15.12)</td><td>12.55 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 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	39.38	(-2.17)	-50.00	38.48	(-3.07)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-33.38	(-8.57)	-11.80 k	-33.98	(-10.27)	11.65 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.10	(-14.10)	-19.65 k	-35.12	(-15.12)	12.55 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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TX-ANH	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Ref Offset 37 dB Ref 46.0 dBm 10 dB/div Log 36.0 30.0 24.0 18.0 12.0 6.0 0.0 36.0 30.0 24.0 18.0 12.0 6.0 0.0 Center 406.1 MHz Span 120 kHz Total Power Ref 39.35 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>37.94</td><td>(-3.61)</td><td>-50.00</td><td>36.40</td><td>(-5.15)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-31.27</td><td>(-2.47)</td><td>-12.35 k</td><td>-31.09</td><td>(-1.56)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-32.63</td><td>(-12.63)</td><td>-14.65 k</td><td>-30.88</td><td>(-10.88)</td><td>13.25 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></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	37.94	(-3.61)	-50.00	36.40	(-5.15)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-31.27	(-2.47)	-12.35 k	-31.09	(-1.56)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-32.63	(-12.63)	-14.65 k	-30.88	(-10.88)	13.25 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANH	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz Ref Offset 38 dB Ref 46.0 dBm 10 dB/div Log 36.0 30.0 24.0 18.0 12.0 6.0 0.0 36.0 30.0 24.0 18.0 12.0 6.0 0.0 Center 438 MHz Span 120 kHz Total Power Ref 41.68 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>41.51</td><td>(-0.93)</td><td>-50.00</td><td>38.39</td><td>(-4.06)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-33.76</td><td>(-7.31)</td><td>-12.15 k</td><td>-36.14</td><td>(-7.88)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-30.27</td><td>(-10.27)</td><td>-13.05 k</td><td>-30.08</td><td>(-10.08)</td><td>12.90 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 438.012500 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	41.51	(-0.93)	-50.00	38.39	(-4.06)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-33.76	(-7.31)	-12.15 k	-36.14	(-7.88)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-30.27	(-10.27)	-13.05 k	-30.08	(-10.08)	12.90 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																						
TX-ANH	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz Ref Offset 38 dB Ref 46.0 dBm Center 438 MHz Span 120 kHz Total Power Ref 41.76 dBm @ 0.125 MHz <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>Peak ></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>40.25</td> <td>(-2.19)</td> <td>-100.0</td> <td>36.00</td> <td>(-8.44)</td> <td>0.0</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-31.33</td> <td>(-2.34)</td> <td>-12.50 k</td> <td>-29.94</td> <td>(-1.31)</td> <td>12.45 k</td> <td>12.45 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-30.23</td> <td>(-10.23)</td> <td>-18.85 k</td> <td>-29.05</td> <td>(-9.05)</td> <td>13.00 k</td> <td>13.00 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> <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> <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> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak >	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	40.25	(-2.19)	-100.0	36.00	(-8.44)	0.0	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-31.33	(-2.34)	-12.50 k	-29.94	(-1.31)	12.45 k	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-30.23	(-10.23)	-18.85 k	-29.05	(-9.05)	13.00 k	13.00 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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