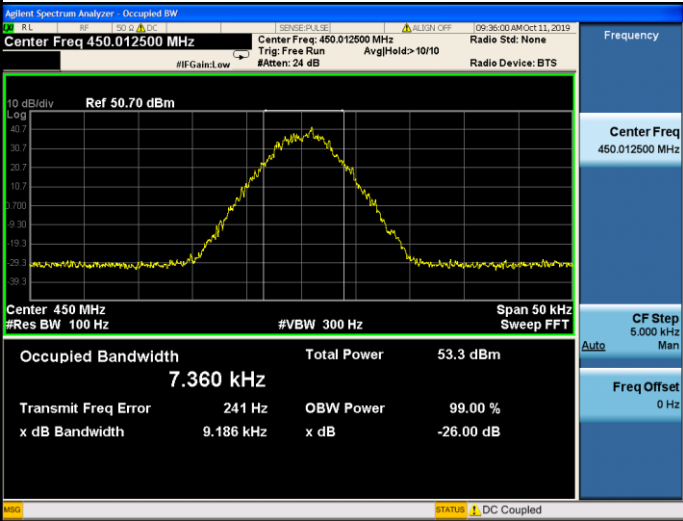
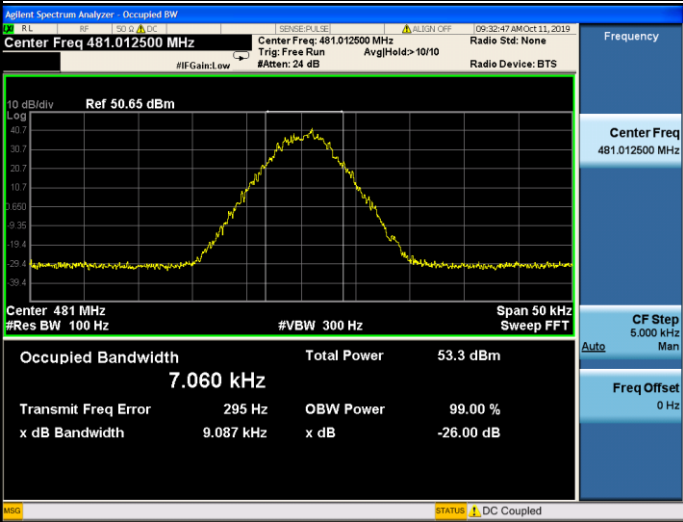
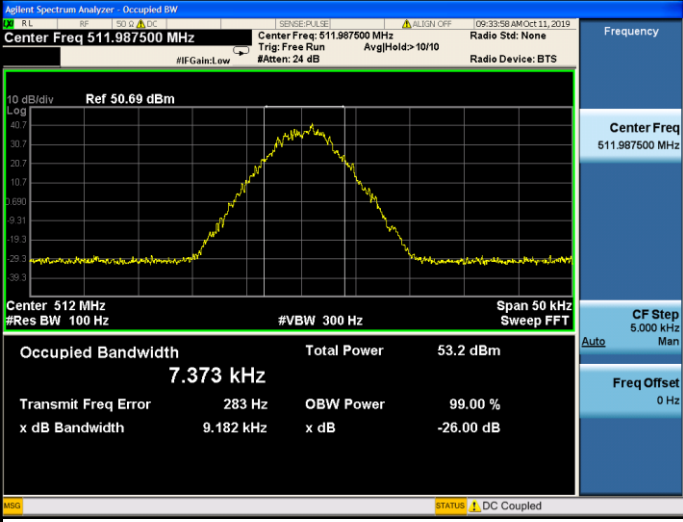


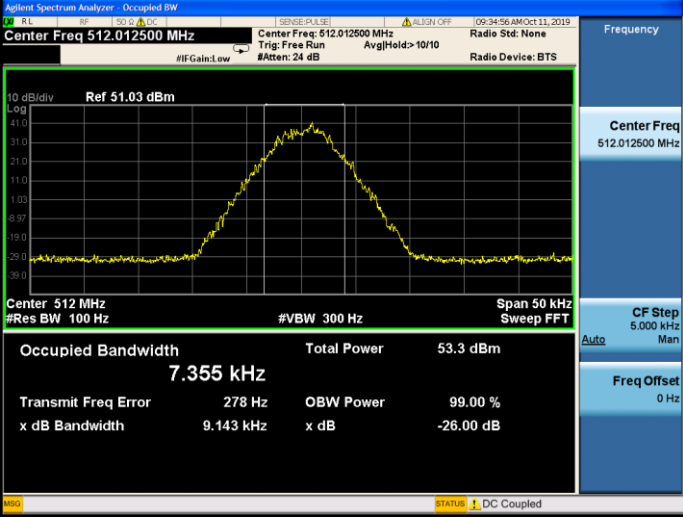
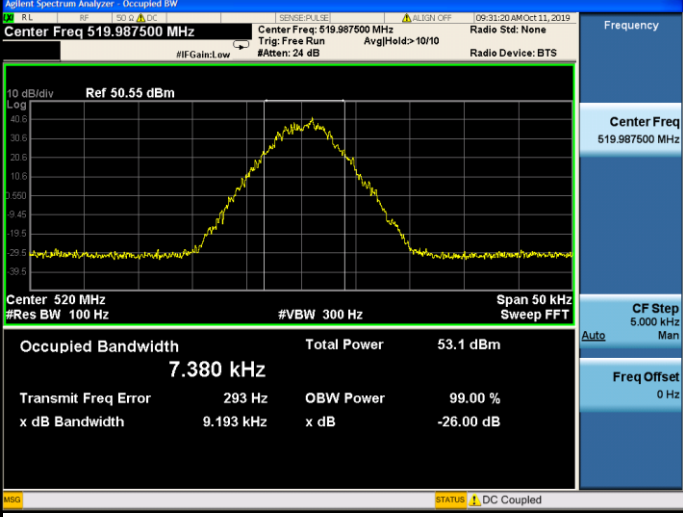
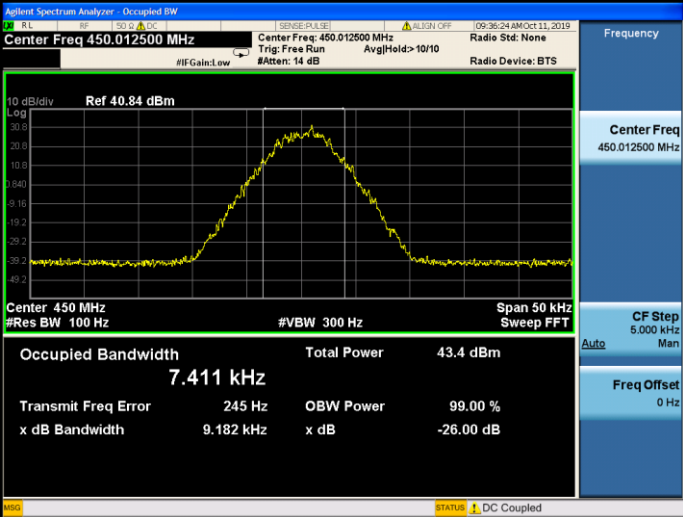


Appendix B:Occupied Bandwidth

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

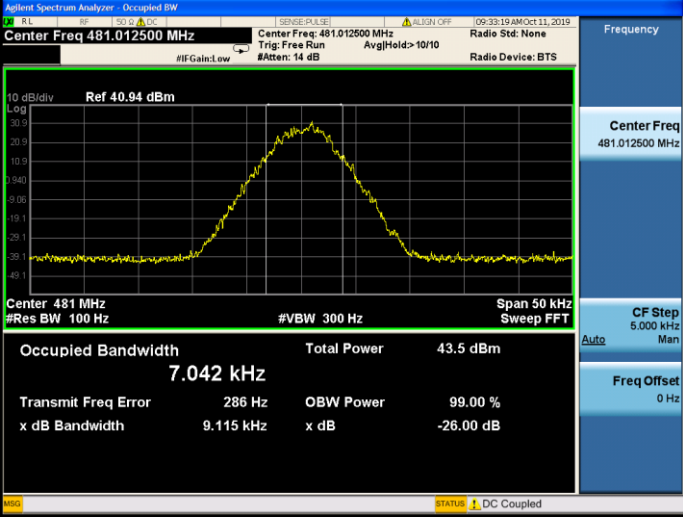
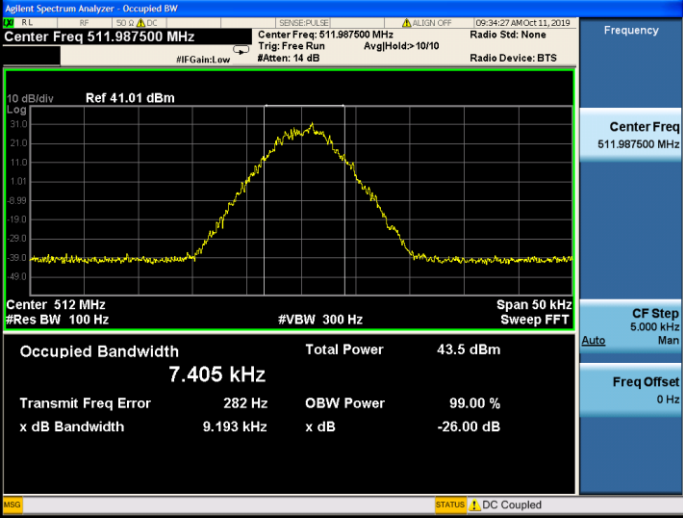
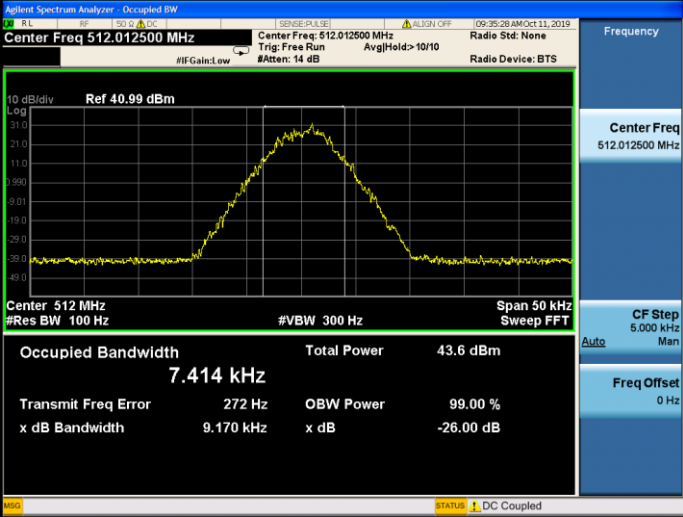


Appendix B:Occupied Bandwidth

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

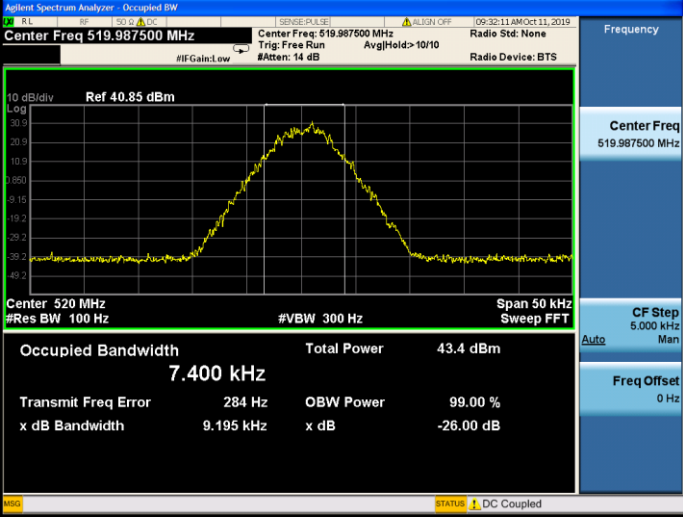
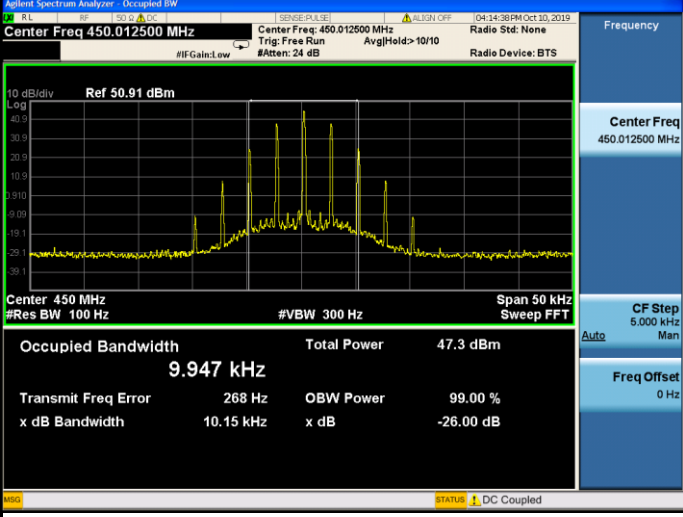
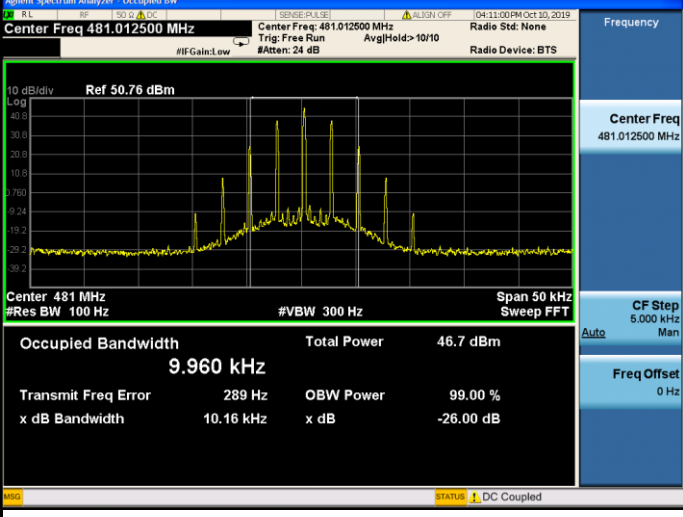


Appendix B:Occupied Bandwidth

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

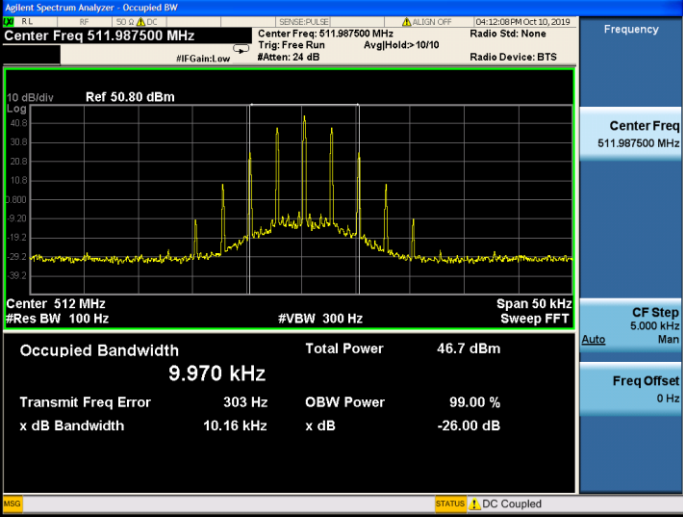
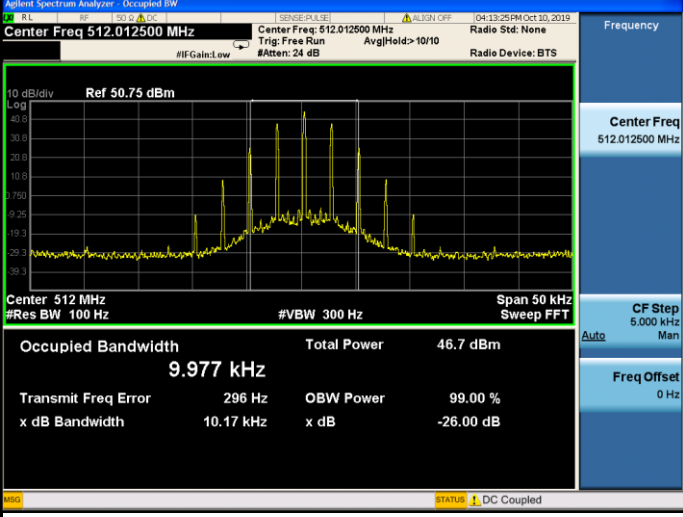
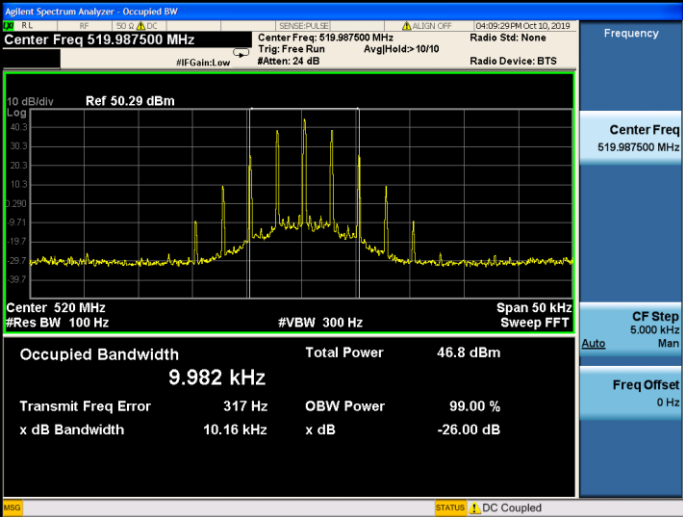


Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 519.987500 MHz Center Freq: 519.987500 MHz Trig: Free Run AvgHld: 10/10 Radio Std: None Radio Device: BTS Ref 40.85 dBm Center 520 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.400 kHz Total Power 43.4 dBm Transmit Freq Error 284 Hz OBW Power 99.00 % x dB Bandwidth 9.195 kHz x dB -26.00 dB Frequency Center Freq 519.987500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto STATUS DC Coupled
TX-ANH	FM	CH _L	 Agilent Spectrum Analyzer - Occupied BW Center Freq 450.012500 MHz Center Freq: 450.012500 MHz Trig: Free Run AvgHld: 10/10 Radio Std: None Radio Device: BTS Ref 50.91 dBm Center 450 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.947 kHz Total Power 47.3 dBm Transmit Freq Error 268 Hz OBW Power 99.00 % x dB Bandwidth 10.15 kHz x dB -26.00 dB Frequency Center Freq 450.012500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto STATUS DC Coupled
TX-ANH	FM	CH _{M1}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 481.012500 MHz Center Freq: 481.012500 MHz Trig: Free Run AvgHld: 10/10 Radio Std: None Radio Device: BTS Ref 50.76 dBm Center 481 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.960 kHz Total Power 46.7 dBm Transmit Freq Error 289 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB Frequency Center Freq 481.012500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto STATUS DC Coupled



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	

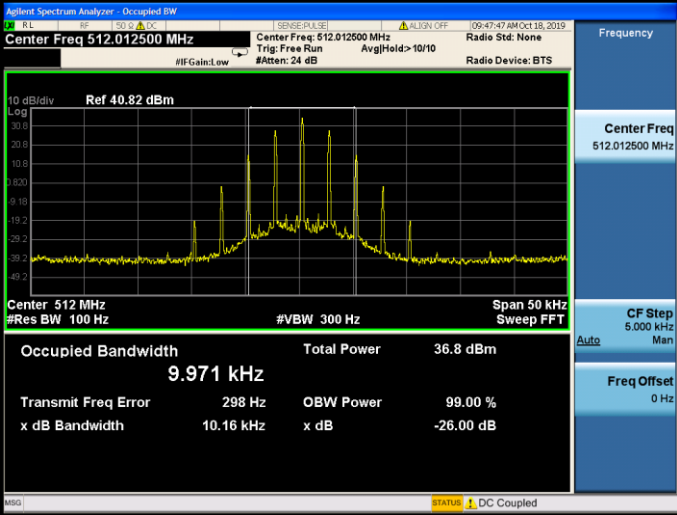
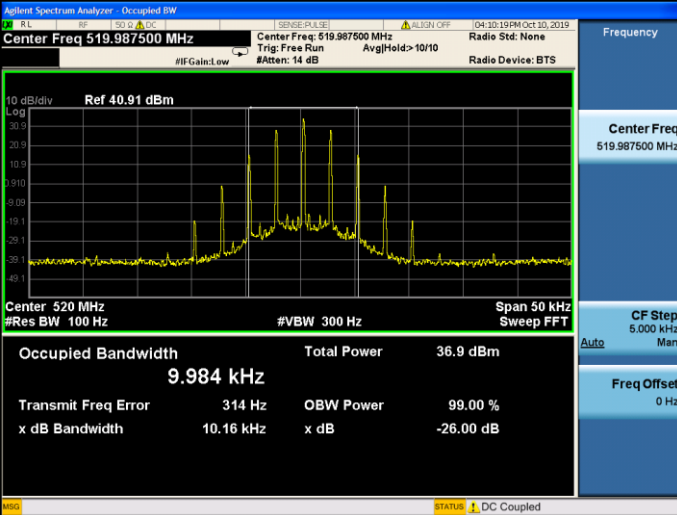


Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Occupied BW Center Freq 450.012500 MHz Center Freq: 450.012500 MHz Trig: Free Run AvgHld: 10/10 Radio Std: None Radio Device: BTS Ref 40.99 dBm 10 dB/div Center 450 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.952 kHz Total Power 37.0 dBm Transmit Freq Error 267 Hz OBW Power 99.00 % x dB Bandwidth 10.15 kHz x dB -26.00 dB Frequency Center Freq 450.012500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto STATUS DC Coupled
TX-ANL	FM	CH _{M1}	Agilent Spectrum Analyzer - Occupied BW Center Freq 481.012500 MHz Center Freq: 481.012500 MHz Trig: Free Run AvgHld: 10/10 Radio Std: None Radio Device: BTS Ref 41.02 dBm 10 dB/div Center 481 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.967 kHz Total Power 37.0 dBm Transmit Freq Error 286 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB Frequency Center Freq 481.012500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto STATUS DC Coupled
TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Occupied BW Center Freq 511.987500 MHz Center Freq: 511.987500 MHz Trig: Free Run AvgHld: 10/10 Radio Std: None Radio Device: BTS Ref 40.98 dBm 10 dB/div Center 512 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.970 kHz Total Power 36.9 dBm Transmit Freq Error 300 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB Frequency Center Freq 511.987500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto STATUS DC Coupled

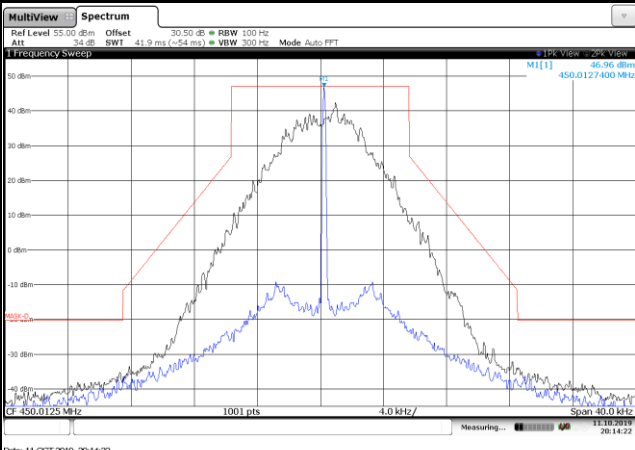
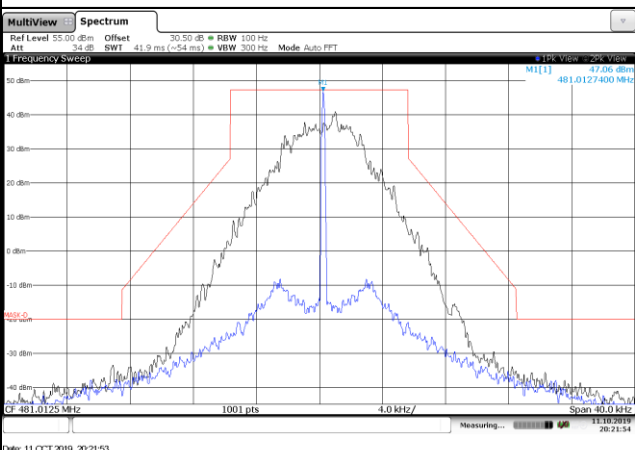
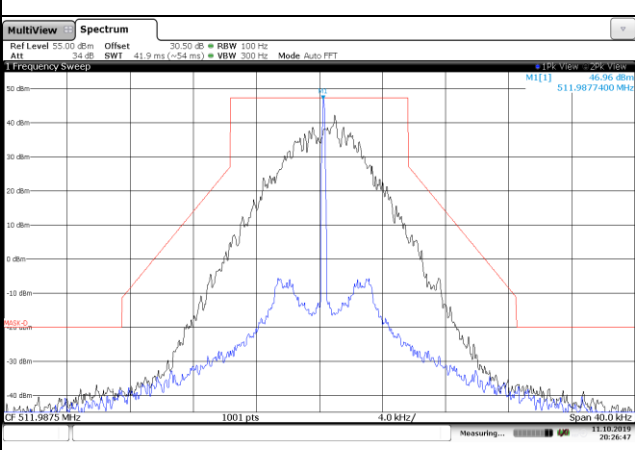


Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _{M3}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 512.012500 MHz Center Freq: 512.012500 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS Ref 40.82 dBm 10 dB/div Log Center 512 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.971 kHz Total Power 36.8 dBm Transmit Freq Error 298 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB Frequency Center Freq 512.012500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto STATUS DC Coupled
TX-ANL	FM	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 519.987500 MHz Center Freq: 519.987500 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS Ref 40.91 dBm 10 dB/div Log Center 520 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.984 kHz Total Power 36.9 dBm Transmit Freq Error 314 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB Frequency Center Freq 519.987500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto STATUS DC Coupled



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	 MultiView Spectrum Ref Level 55.00 dBm Offset 30.50 dB RBW 100 Hz Att 34 dB SWT 41.9 ms (>54 ms) VBW 300 Hz Mode Auto FFT Frequency Sweep M1[1] 46.96 dBm 450.0127400 MHz CF 450.0125 MHz 1001 pts 4.0 kHz/ Span 40.0 kHz Measuring... 11.10.2019 20:14:22 Date: 11.OCT.2019 20:14:22
TX-DNH	4FSK	CH _{M1}	 MultiView Spectrum Ref Level 55.00 dBm Offset 30.50 dB RBW 100 Hz Att 34 dB SWT 41.9 ms (>54 ms) VBW 300 Hz Mode Auto FFT Frequency Sweep M1[1] 47.06 dBm 481.0127400 MHz CF 481.0125 MHz 1001 pts 4.0 kHz/ Span 40.0 kHz Measuring... 11.10.2019 20:21:53 Date: 11.OCT.2019 20:21:53
TX-DNH	4FSK	CH _{M2}	 MultiView Spectrum Ref Level 55.00 dBm Offset 30.50 dB RBW 100 Hz Att 34 dB SWT 41.9 ms (>54 ms) VBW 300 Hz Mode Auto FFT Frequency Sweep M1[1] 46.96 dBm 511.9677400 MHz CF 511.9675 MHz 1001 pts 4.0 kHz/ Span 40.0 kHz Measuring... 11.10.2019 20:26:47 Date: 11.OCT.2019 20:26:47

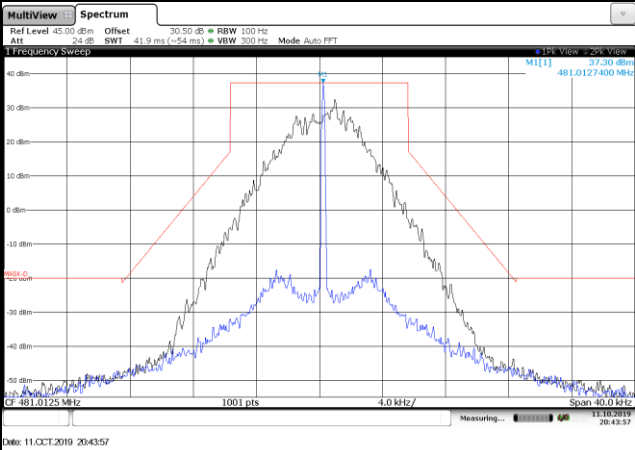
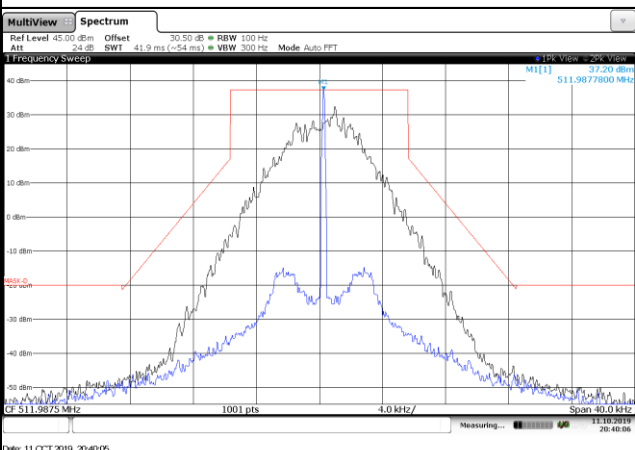
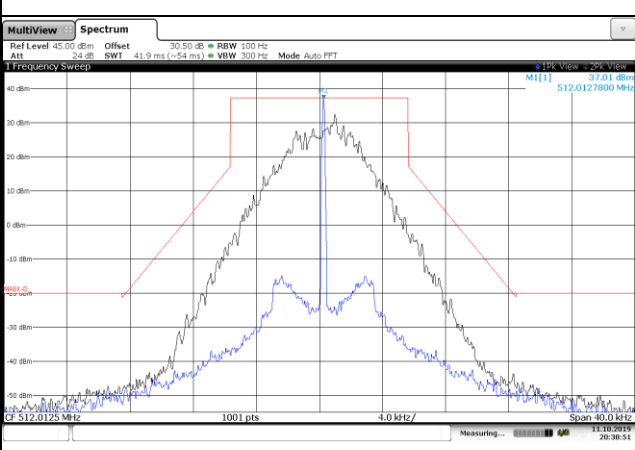


Appendix C:Emission Mask

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



Appendix C:Emission Mask

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

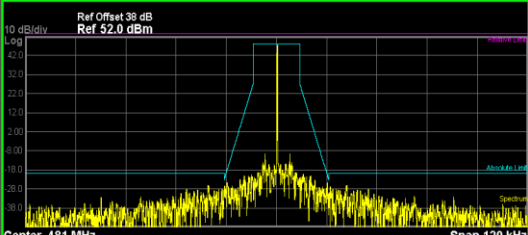
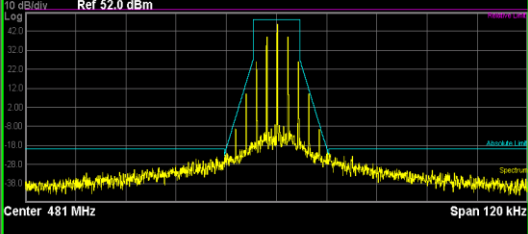
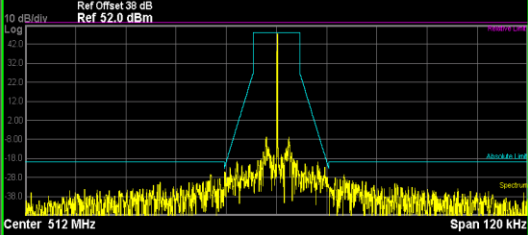


Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _H																																																																
TX-ANH	FM	CH _L	<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>-9.744</td><td>(-58.51)</td><td>-2.500 k</td><td>46.58</td><td>(-2.18)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-28.57</td><td>(-8.07)</td><td>-12.20 k</td><td>29.85</td><td>(-10.19)</td><td>12.10 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-27.79</td><td>(-7.79)</td><td>-16.40 k</td><td>28.70</td><td>(-6.70)</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>	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	-9.744	(-58.51)	-2.500 k	46.58	(-2.18)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	-28.57	(-8.07)	-12.20 k	29.85	(-10.19)	12.10 k	12.50 kHz	60.00 kHz	100.0 Hz	-27.79	(-7.79)	-16.40 k	28.70	(-6.70)	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)																																																										
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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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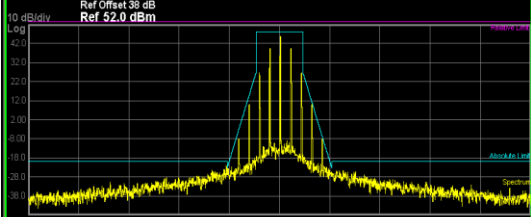
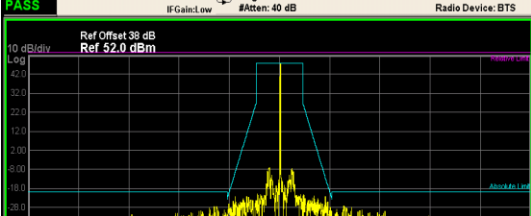
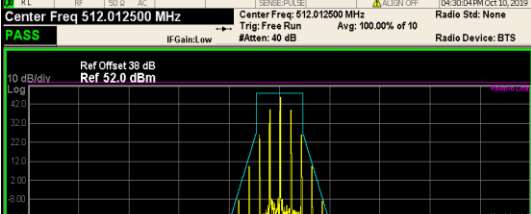
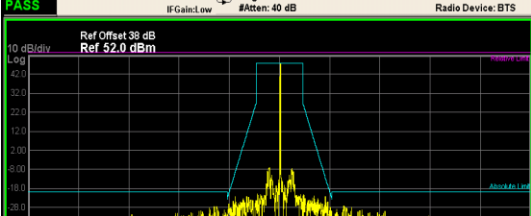
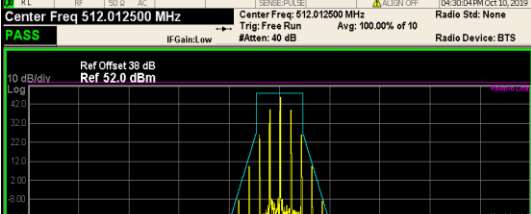
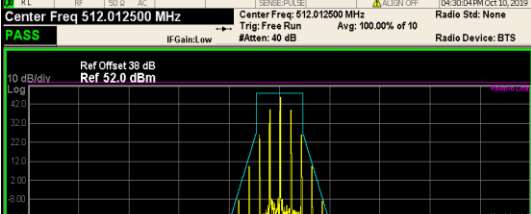
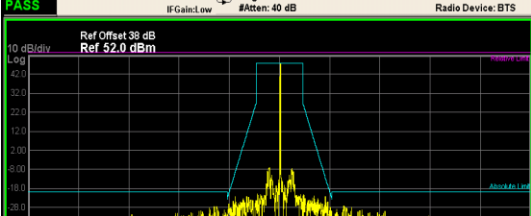
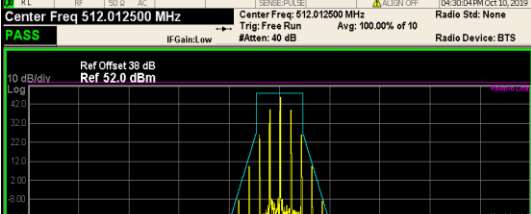
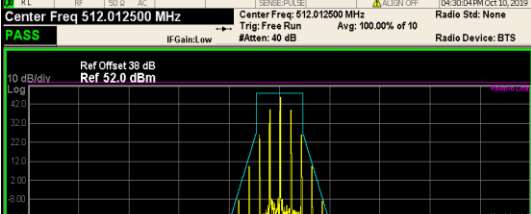
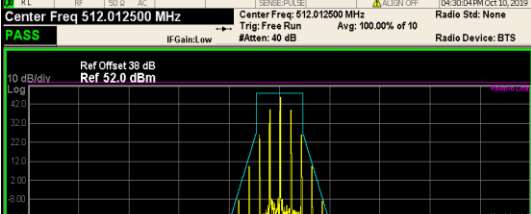


Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANH	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 04:25:09 PM Oct 10, 2019 Center Freq 481.012500 MHz Center Freq: 481.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 38 dB Ref 52.0 dBm 10 dB/div Log  Center 481 MHz Span 120 kHz Total Power Ref 47.54 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>-9.695</td><td>(-57.88)</td><td>-2.700 k</td><td>47.34</td><td>(-0.85)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-26.62</td><td>(-5.19)</td><td>-12.25 k</td><td>-24.75</td><td>(-3.32)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-26.13</td><td>(-6.13)</td><td>-16.25 k</td><td>-26.08</td><td>(-6.08)</td><td>16.80 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 481.012500 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	-9.695	(-57.88)	-2.700 k	47.34	(-0.85)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	-26.62	(-5.19)	-12.25 k	-24.75	(-3.32)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-26.13	(-6.13)	-16.25 k	-26.08	(-6.08)	16.80 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 RL RF 50.0 AC SENSE PULSE ALIGN OFF 04:25:31 PM Oct 10, 2019 Center Freq 481.012500 MHz Center Freq: 481.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 38 dB Ref 52.0 dBm 10 dB/div Log  Center 481 MHz Span 120 kHz Total Power Ref 47.62 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>39.09</td><td>(-9.10)</td><td>-2.250 k</td><td>45.75</td><td>(-2.44)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-22.87</td><td>(-1.80)</td><td>-12.20 k</td><td>-21.95</td><td>(-1.24)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-23.89</td><td>(-3.89)</td><td>-14.10 k</td><td>-22.21</td><td>(-2.21)</td><td>12.65 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 (STATUS) Frequency Center Freq 481.012500 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	39.09	(-9.10)	-2.250 k	45.75	(-2.44)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	-22.87	(-1.80)	-12.20 k	-21.95	(-1.24)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-23.89	(-3.89)	-14.10 k	-22.21	(-2.21)	12.65 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANH	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 04:27:20 PM Oct 10, 2019 Center Freq 511.987500 MHz Center Freq: 511.987500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 38 dB Ref 52.0 dBm 10 dB/div Log  Center 512 MHz Span 120 kHz Total Power Ref 47.34 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>-6.858</td><td>(-54.89)</td><td>-2.400 k</td><td>47.40</td><td>(-0.64)</td><td>300.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-25.19</td><td>(-3.60)</td><td>-12.25 k</td><td>-22.52</td><td>(-5.66)</td><td>11.60 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-26.44</td><td>(-6.44)</td><td>-15.65 k</td><td>-26.52</td><td>(-6.52)</td><td>16.25 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> File <MASK D.state> recalled (STATUS) Frequency Center Freq 511.987500 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	-6.858	(-54.89)	-2.400 k	47.40	(-0.64)	300.0	5.625 kHz	12.50 kHz	100.0 Hz	-25.19	(-3.60)	-12.25 k	-22.52	(-5.66)	11.60 k	12.50 kHz	60.00 kHz	100.0 Hz	-26.44	(-6.44)	-15.65 k	-26.52	(-6.52)	16.25 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																																																																	
TX-ANH	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF ISO AC SENSE: PULSE ALIGN: OFF 04:27:41 PM Oct 10, 2019 Center Freq 511.987500 MHz Center Freq: 511.987500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 35 dB Ref 52.0 dBm 10 dB/div Log  Center 512 MHz Span 120 kHz Total Power Ref 47.35 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>39.43</td><td>(-8.61)</td><td>-2.200 k</td><td>45.65</td><td>(-2.39)</td><td>300.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-24.00</td><td>(-1.69)</td><td>-12.35 k</td><td>10.08</td><td>(-0.69)</td><td>7.800 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-22.09</td><td>(-2.09)</td><td>-12.65 k</td><td>-24.72</td><td>(-4.72)</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 (STATUS) Frequency Center Freq 511.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz <tr><td>CH_{M3}</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF ISO AC SENSE: PULSE ALIGN: OFF 04:20:42 PM Oct 10, 2019 Center Freq 512.012500 MHz Center Freq: 512.012500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 38 dB Ref 52.0 dBm 10 dB/div Log  Center 512 MHz Span 120 kHz Total Power Ref 47.34 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>-7.314</td><td>(-55.21)</td><td>-2.400 k</td><td>47.28</td><td>(-0.62)</td><td>300.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-26.21</td><td>(-5.94)</td><td>-12.05 k</td><td>28.05</td><td>(-6.69)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-27.62</td><td>(-7.62)</td><td>-15.50 k</td><td>27.34</td><td>(-7.34)</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> File <MASK D.state> recalled (STATUS) Frequency Center Freq 512.012500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz <tr><td>CH_{M3}</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF ISO AC SENSE: PULSE ALIGN: OFF 04:30:04 PM Oct 10, 2019 Center Freq 512.012500 MHz Center Freq: 512.012500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 35 dB Ref 52.0 dBm 10 dB/div Log  Center 512 MHz Span 120 kHz Total Power Ref 47.50 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>39.18</td><td>(-8.71)</td><td>-2.200 k</td><td>45.66</td><td>(-2.23)</td><td>300.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-25.83</td><td>(-2.29)</td><td>-12.50 k</td><td>9.505</td><td>(-1.12)</td><td>7.800 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-23.84</td><td>(-3.84)</td><td>-13.05 k</td><td>-22.73</td><td>(-2.73)</td><td>13.10 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 512.012500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz </td></tr></td></tr>	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	39.43	(-8.61)	-2.200 k	45.65	(-2.39)	300.0	5.625 kHz	12.50 kHz	100.0 Hz	-24.00	(-1.69)	-12.35 k	10.08	(-0.69)	7.800 k	12.50 kHz	60.00 kHz	100.0 Hz	-22.09	(-2.09)	-12.65 k	-24.72	(-4.72)	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	—	(—)	—	—	(—)	—	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF ISO AC SENSE: PULSE ALIGN: OFF 04:20:42 PM Oct 10, 2019 Center Freq 512.012500 MHz Center Freq: 512.012500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 38 dB Ref 52.0 dBm 10 dB/div Log  Center 512 MHz Span 120 kHz Total Power Ref 47.34 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>-7.314</td><td>(-55.21)</td><td>-2.400 k</td><td>47.28</td><td>(-0.62)</td><td>300.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-26.21</td><td>(-5.94)</td><td>-12.05 k</td><td>28.05</td><td>(-6.69)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-27.62</td><td>(-7.62)</td><td>-15.50 k</td><td>27.34</td><td>(-7.34)</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> File <MASK D.state> recalled (STATUS) Frequency Center Freq 512.012500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz <tr><td>CH_{M3}</td><td> Agilent Spectrum Analyzer - 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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																																																																					
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5.625 kHz	12.50 kHz	100.0 Hz	-23.51	(-0.57)	-12.45 k	-7.999	(-0.32)	10.35 k																																																																																																																																																																																																
12.50 kHz	60.00 kHz	100.0 Hz	-24.59	(-4.59)	-13.20 k	-21.46	(-1.46)	12.85 k																																																																																																																																																																																																
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TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 450.012500 MHz Center Freq: 450.012500 MHz Radio Std: None Trig: Free Run #Atten: 40 dB Radio Device: BTS Ref Offset 38 dB Ref 42.0 dBm Center 450 MHz Span 120 kHz Total Power Ref 36.56 dBm/0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>-20.85</td><td>(-58.41)</td><td>-2.650 k</td><td>36.60</td><td>(-0.95)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.01</td><td>(-9.31)</td><td>-12.20 k</td><td>-38.73</td><td>(-4.85)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.27</td><td>(-17.27)</td><td>-13.90 k</td><td>-36.91</td><td>(-16.91)</td><td>17.70 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK.D.state> recalled Frequency Center Freq 450.012500 MHz CF Step 12.000 kHz Man 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	-20.85	(-58.41)	-2.650 k	36.60	(-0.95)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.01	(-9.31)	-12.20 k	-38.73	(-4.85)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.27	(-17.27)	-13.90 k	-36.91	(-16.91)	17.70 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																																																																																						
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 450.012500 MHz Center Freq: 450.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 38 dB Ref 42.0 dBm Center 450 MHz Span 120 kHz Total Power Ref 36.69 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>28.42</td><td>(-9.14)</td><td>-2.250 k</td><td>35.09</td><td>(2.47)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.16</td><td>(-1.73)</td><td>-12.30 k</td><td>-34.03</td><td>(-0.51)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.80</td><td>(-14.80)</td><td>-12.80 k</td><td>-33.70</td><td>(-13.70)</td><td>14.30 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> Frequency Center Freq 450.012500 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	28.42	(-9.14)	-2.250 k	35.09	(2.47)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.16	(-1.73)	-12.30 k	-34.03	(-0.51)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.80	(-14.80)	-12.80 k	-33.70	(-13.70)	14.30 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANL	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 481.012500 MHz Center Freq: 481.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 38 dB Ref 42.0 dBm Center 481 MHz Span 120 kHz Total Power Ref 37.97 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>-20.18</td><td>(-58.52)</td><td>-2.750 k</td><td>37.43</td><td>(-0.91)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-37.10</td><td>(-4.00)</td><td>-12.50 k</td><td>-39.73</td><td>(-6.63)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.78</td><td>(-15.78)</td><td>-16.20 k</td><td>-36.42</td><td>(-16.42)</td><td>16.75 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> Frequency Center Freq 481.012500 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	-20.18	(-58.52)	-2.750 k	37.43	(-0.91)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.10	(-4.00)	-12.50 k	-39.73	(-6.63)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.78	(-15.78)	-16.20 k	-36.42	(-16.42)	16.75 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANL	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 481.012500 MHz Center Freq: 481.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 38 dB Ref 42.0 dBm Center 481 MHz Span 120 kHz Total Power Ref 37.91 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>29.21</td><td>(-9.12)</td><td>-2.200 k</td><td>35.88</td><td>(2.46)</td><td>300.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.72</td><td>(-3.71)</td><td>-12.35 k</td><td>-0.919</td><td>(-1.98)</td><td>7.800 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.81</td><td>(-13.81)</td><td>-14.80 k</td><td>-32.02</td><td>(-12.02)</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></tbody></table> Frequency Center Freq 481.012500 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	29.21	(-9.12)	-2.200 k	35.88	(2.46)	300.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.72	(-3.71)	-12.35 k	-0.919	(-1.98)	7.800 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.81	(-13.81)	-14.80 k	-32.02	(-12.02)	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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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 150.0 kHz AC SENSE PULSE ALIGN OFF 09:44:57 AM Oct 19, 2019 Center Freq 511.987500 MHz Center Freq: 511.987500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 28 dB Ref 42.0 dBm Center 512 MHz Span 120 kHz Total Power Ref 37.69 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>-17.24</td><td>(-55.57)</td><td>-2.350 k</td><td>37.64</td><td>(-0.69)</td><td>300.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.08</td><td>(-4.88)</td><td>-12.10 k</td><td>-36.29</td><td>(-5.00)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.68</td><td>(-13.68)</td><td>-13.35 k</td><td>-33.72</td><td>(-13.72)</td><td>13.95 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>(—)</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>(—)</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>(—)</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK.D.state> recalled STATUS Frequency Center Freq 511.987500 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	-17.24	(-55.57)	-2.350 k	37.64	(-0.69)	300.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.08	(-4.88)	-12.10 k	-36.29	(-5.00)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.68	(-13.68)	-13.35 k	-33.72	(-13.72)	13.95 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	(—)	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	(—)	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	(—)	(—)	—
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TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 150.0 kHz AC SENSE PULSE ALIGN OFF 04:38:57 PM Oct 10, 2019 Center Freq 511.987500 MHz Center Freq: 511.987500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 38 dB Ref 42.0 dBm Center 512 MHz Span 120 kHz Total Power Ref 37.63 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>29.42</td><td>(-8.94)</td><td>-2.200 k</td><td>35.90</td><td>(-2.45)</td><td>300.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.15</td><td>(-2.07)</td><td>-12.50 k</td><td>-36.38</td><td>(-1.40)</td><td>7.800 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-32.98</td><td>(-12.98)</td><td>-14.80 k</td><td>-31.32</td><td>(-11.32)</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></tbody></table> File <Temp.png> saved STATUS Frequency Center Freq 511.987500 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	29.42	(-8.94)	-2.200 k	35.90	(-2.45)	300.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.15	(-2.07)	-12.50 k	-36.38	(-1.40)	7.800 k	12.50 kHz	60.00 kHz	100.0 Hz	-32.98	(-12.98)	-14.80 k	-31.32	(-11.32)	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	—	(—)	—	(—)	(—)	—
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TX-ANL	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 150.0 kHz AC SENSE PULSE ALIGN OFF 04:32:47 PM Oct 10, 2019 Center Freq 512.012500 MHz Center Freq: 512.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 38 dB Ref 47.0 dBm Center 512 MHz Span 120 kHz Total Power Ref 37.68 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>-13.79</td><td>(-57.10)</td><td>-2.200 k</td><td>37.55</td><td>(-5.76)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.33</td><td>(-7.20)</td><td>-12.50 k</td><td>-39.45</td><td>(-11.69)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.71</td><td>(-15.71)</td><td>-12.65 k</td><td>-35.37</td><td>(-15.37)</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></tbody></table> File <MASK.D.state> recalled STATUS Frequency Center Freq 512.012500 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	-13.79	(-57.10)	-2.200 k	37.55	(-5.76)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.33	(-7.20)	-12.50 k	-39.45	(-11.69)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.71	(-15.71)	-12.65 k	-35.37	(-15.37)	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	—	(—)	—	(—)	(—)	—
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																																																																					
TX-ANL	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SENSE PULSE ALIGN OFF 04:33:08 PM Oct 10, 2019 Center Freq 512.012500 MHz Center Freq: 512.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None IF Gain: Low #Atten: 40 dB Radio Device: BTS PASS Ref Offset 38 dB Ref 47.0 dBm 10 dB/div Log Center 512 MHz Span 120 kHz Total Power Ref 37.81 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>29.42</td><td>(-13.89)</td><td>-2.250 k</td><td>35.90</td><td>(-7.41)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.01</td><td>(-6.89)</td><td>-12.50 k</td><td>-18.14</td><td>(-6.01)</td><td>10.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.67</td><td>(-13.67)</td><td>-15.55 k</td><td>-33.23</td><td>(-13.23)</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></tbody></table> File <Temp.png> saved (STATUS) Frequency Center Freq 512.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz <tr><td>TX-ANL</td><td>FM</td><td>CH_H</td><td> Agilent Spectrum Analyzer - 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12.50 kHz	60.00 kHz	100.0 Hz	-33.67	(-13.67)	-15.55 k	-33.23	(-13.23)	14.05 k																																																																																																																																																																																																
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TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SENSE PULSE ALIGN OFF 04:34:02 PM Oct 10, 2019 Center Freq 519.987500 MHz Center Freq: 519.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None IF Gain: Low #Atten: 40 dB Radio Device: BTS PASS Ref Offset 38 dB Ref 42.0 dBm 10 dB/div Log Center 520 MHz Span 120 kHz Total Power Ref 37.54 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>-15.41</td><td>(-53.82)</td><td>-2.250 k</td><td>37.58</td><td>(-0.83)</td><td>300.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.38</td><td>(-4.44)</td><td>-12.35 k</td><td>-33.56</td><td>(-2.72)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.16</td><td>(-15.16)</td><td>-12.55 k</td><td>-35.97</td><td>(-15.97)</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></tbody></table> File <MASK.D.state> recalled (STATUS) Frequency Center Freq 519.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz <tr><td>TX-ANL</td><td>FM</td><td>CH_H</td><td> Agilent Spectrum Analyzer - 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Spectrum Emission Mask RL RF 50 dB AC SENSE PULSE ALIGN OFF 04:24:23 PM Oct 10, 2019 Center Freq 519.987500 MHz Center Freq: 519.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None IF Gain: Low #Atten: 40 dB Radio Device: BTS PASS Ref Offset 38 dB Ref 42.0 dBm 10 dB/div Log Center 520 MHz Span 120 kHz Total Power Ref 37.56 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>29.70</td><td>(-8.71)</td><td>-2.200 k</td><td>35.79</td><td>(-2.62)</td><td>300.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-33.40</td><td>(-2.19)</td><td>-12.25 k</td><td>-17.47</td><td>(-0.08)</td><td>10.35 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>-13.20 k</td><td>-30.77</td><td>(-10.77)</td><td>12.80 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved (STATUS) Frequency Center Freq 519.987500 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	29.70	(-8.71)	-2.200 k	35.79	(-2.62)	300.0	5.625 kHz	12.50 kHz	100.0 Hz	-33.40	(-2.19)	-12.25 k	-17.47	(-0.08)	10.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-32.49	(-12.49)	-13.20 k	-30.77	(-10.77)	12.80 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																			
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**Appendix D:Modulation Limit**

Operation Mode	Modulation Type	Test Channel	Modulation Level (dB)	Peak frequency deviation (kHz)				Limit (kHz)	Result
				300Hz	1004Hz	1500Hz	2500 Hz		
TX-ANH	FM	CH _{M2}	-20	0.088	0.174	0.244	0.394	2.5	PASS
TX-ANH	FM	CH _{M2}	-15	0.119	0.293	0.417	0.676	2.5	PASS
TX-ANH	FM	CH _{M2}	-10	0.138	0.488	0.719	1.189	2.5	PASS
TX-ANH	FM	CH _{M2}	-5	0.229	0.851	1.257	2.076	2.5	PASS
TX-ANH	FM	CH _{M2}	0	0.375	1.509	2.202	2.187	2.5	PASS
TX-ANH	FM	CH _{M2}	5	0.642	2.09	2.201	2.191	2.5	PASS
TX-ANH	FM	CH _{M2}	10	1.111	2.232	2.205	2.194	2.5	PASS
TX-ANH	FM	CH _{M2}	15	1.98	2.196	2.196	2.186	2.5	PASS
TX-ANH	FM	CH _{M2}	20	1.735	2.156	2.199	2.195	2.5	PASS