



Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 450.012500 MHz Center Freq: 450.012500 MHz Radio Std: None</p> <p>Trig: Free Run AvgHold: >10/10</p> <p>#IFGain:Low #Atten: 24 dB Radio Device: BTS</p> <p>10 dB/div Ref 50.70 dBm</p> <p>Center 450 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 53.3 dBm</p> <p>7.360 kHz</p> <p>Transmit Freq Error 241 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.186 kHz x dB -26.00 dB</p> <p>STATUS DC Coupled</p>
TX-DNH	4FSK	CH _{M1}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 481.012500 MHz Center Freq: 481.012500 MHz Radio Std: None</p> <p>Trig: Free Run AvgHold: >10/10</p> <p>#IFGain:Low #Atten: 24 dB Radio Device: BTS</p> <p>10 dB/div Ref 50.65 dBm</p> <p>Center 481 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 53.3 dBm</p> <p>7.060 kHz</p> <p>Transmit Freq Error 295 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.087 kHz x dB -26.00 dB</p> <p>STATUS DC Coupled</p>
TX-DNH	4FSK	CH _{M2}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 511.987500 MHz Center Freq: 511.987500 MHz Radio Std: None</p> <p>Trig: Free Run AvgHold: >10/10</p> <p>#IFGain:Low #Atten: 24 dB Radio Device: BTS</p> <p>10 dB/div Ref 50.69 dBm</p> <p>Center 512 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 53.2 dBm</p> <p>7.373 kHz</p> <p>Transmit Freq Error 283 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.182 kHz x dB -26.00 dB</p> <p>STATUS DC Coupled</p>



Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M3}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 512.012500 MHz Center Freq: 512.012500 MHz Radio Std: None</p> <p>Trig: Free Run AvgHld: >10/10</p> <p>#IFGain: Low #Atten: 24 dB Radio Device: BTS</p> <p>10 dB/div Ref 51.03 dBm</p> <p>Center 512 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth 7.355 kHz Total Power 53.3 dBm</p> <p>Transmit Freq Error 278 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.143 kHz x dB -26.00 dB</p> <p>STATUS DC Coupled</p>
TX-DNH	4FSK	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 519.987500 MHz Center Freq: 519.987500 MHz Radio Std: None</p> <p>Trig: Free Run AvgHld: >10/10</p> <p>#IFGain: Low #Atten: 24 dB Radio Device: BTS</p> <p>10 dB/div Ref 50.55 dBm</p> <p>Center 520 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth 7.380 kHz Total Power 53.1 dBm</p> <p>Transmit Freq Error 293 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.193 kHz x dB -26.00 dB</p> <p>STATUS DC Coupled</p>
TX-DNL	4FSK	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 450.012500 MHz Center Freq: 450.012500 MHz Radio Std: None</p> <p>Trig: Free Run AvgHld: >10/10</p> <p>#IFGain: Low #Atten: 14 dB Radio Device: BTS</p> <p>10 dB/div Ref 40.84 dBm</p> <p>Center 450 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth 7.411 kHz Total Power 43.4 dBm</p> <p>Transmit Freq Error 245 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.182 kHz x dB -26.00 dB</p> <p>STATUS DC Coupled</p>



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Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _{M1}	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 481.012500 MHz Center Freq: 481.012500 MHz Radio Std: None Trig: Free Run AvgHld: >10/10 Radio Device: BTS</p> <p>10 dB/div Ref 40.94 dBm</p> <p>Center 481 MHz Span 50 kHz #Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 43.5 dBm 7.042 kHz</p> <p>Transmit Freq Error 286 Hz OBW Power 99.00 % x dB Bandwidth 9.115 kHz x dB -26.00 dB</p> <p>STATUS DC Coupled</p>
TX-DNL	4FSK	CH _{M2}	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 511.987500 MHz Center Freq: 511.987500 MHz Radio Std: None Trig: Free Run AvgHld: >10/10 Radio Device: BTS</p> <p>10 dB/div Ref 41.01 dBm</p> <p>Center 512 MHz Span 50 kHz #Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 43.5 dBm 7.405 kHz</p> <p>Transmit Freq Error 282 Hz OBW Power 99.00 % x dB Bandwidth 9.193 kHz x dB -26.00 dB</p> <p>STATUS DC Coupled</p>
TX-DNL	4FSK	CH _{M3}	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 512.012500 MHz Center Freq: 512.012500 MHz Radio Std: None Trig: Free Run AvgHld: >10/10 Radio Device: BTS</p> <p>10 dB/div Ref 40.99 dBm</p> <p>Center 512 MHz Span 50 kHz #Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 43.6 dBm 7.414 kHz</p> <p>Transmit Freq Error 272 Hz OBW Power 99.00 % x dB Bandwidth 9.170 kHz x dB -26.00 dB</p> <p>STATUS DC Coupled</p>



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



Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _{M2}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 511.987500 MHz Center Freq: 511.987500 MHz Radio Std: None</p> <p>Trig: Free Run AvgHld: >10/10 Radio Device: BTS</p> <p>Ref 50.80 dBm</p> <p>Center 512 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 46.7 dBm</p> <p>9.970 kHz</p> <p>Transmit Freq Error 303 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 10.16 kHz x dB -26.00 dB</p> <p>Frequency: 511.987500 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p>
TX-ANH	FM	CH _{M3}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 512.012500 MHz Center Freq: 512.012500 MHz Radio Std: None</p> <p>Trig: Free Run AvgHld: >10/10 Radio Device: BTS</p> <p>Ref 50.75 dBm</p> <p>Center 512 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 46.7 dBm</p> <p>9.977 kHz</p> <p>Transmit Freq Error 296 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 10.17 kHz x dB -26.00 dB</p> <p>Frequency: 512.012500 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p>
TX-ANH	FM	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 519.987500 MHz Center Freq: 519.987500 MHz Radio Std: None</p> <p>Trig: Free Run AvgHld: >10/10 Radio Device: BTS</p> <p>Ref 50.29 dBm</p> <p>Center 520 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 46.8 dBm</p> <p>9.982 kHz</p> <p>Transmit Freq Error 317 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 10.16 kHz x dB -26.00 dB</p> <p>Frequency: 519.987500 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p>



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Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 450.012500 MHz Center Freq: 450.012500 MHz Radio Std: None Trig: Free Run AvgHold: >10/10 #IFGain:Low #Atten: 14 dB Radio Device: BTS</p> <p>10 dB/div Ref 40.99 dBm</p> <p>Center 450 MHz Span 50 kHz #Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 37.0 dBm 9.952 kHz</p> <p>Transmit Freq Error 267 Hz OBW Power 99.00 % x dB Bandwidth 10.15 kHz x dB -26.00 dB</p> <p>Frequency: 450.012500 MHz Center Freq: 450.012500 MHz CF Step: 5.000 kHz Freq Offset: 0 Hz</p>
TX-ANL	FM	CH _{M1}	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 481.012500 MHz Center Freq: 481.012500 MHz Radio Std: None Trig: Free Run AvgHold: >10/10 #IFGain:Low #Atten: 14 dB Radio Device: BTS</p> <p>10 dB/div Ref 41.02 dBm</p> <p>Center 481 MHz Span 50 kHz #Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 37.0 dBm 9.967 kHz</p> <p>Transmit Freq Error 286 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB</p> <p>Frequency: 481.012500 MHz Center Freq: 481.012500 MHz CF Step: 5.000 kHz Freq Offset: 0 Hz</p>
TX-ANL	FM	CH _{M2}	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 511.987500 MHz Center Freq: 511.987500 MHz Radio Std: None Trig: Free Run AvgHold: >10/10 #IFGain:Low #Atten: 14 dB Radio Device: BTS</p> <p>10 dB/div Ref 40.98 dBm</p> <p>Center 512 MHz Span 50 kHz #Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 36.9 dBm 9.970 kHz</p> <p>Transmit Freq Error 300 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB</p> <p>Frequency: 511.987500 MHz Center Freq: 511.987500 MHz CF Step: 5.000 kHz Freq Offset: 0 Hz</p>



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Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _{M3}	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 512.012500 MHz Center Freq: 512.012500 MHz Trig: Free Run #Att: 24 dB Avg/Hold: >10/10 Radio Std: None Radio Device: BTS</p> <p>10 dB/div Ref 40.82 dBm Center: 512 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT</p> <p>Occupied Bandwidth 9.971 kHz Total Power 36.8 dBm</p> <p>Transmit Freq Error 298 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB</p> <p>Frequency: 512.012500 MHz CF Step: 5.000 kHz Freq Offset: 0 Hz</p>
TX-ANL	FM	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW Center Freq 519.987500 MHz Center Freq: 519.987500 MHz Trig: Free Run #Att: 14 dB Avg/Hold: >10/10 Radio Std: None Radio Device: BTS</p> <p>10 dB/div Ref 40.91 dBm Center: 520 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT</p> <p>Occupied Bandwidth 9.984 kHz Total Power 36.9 dBm</p> <p>Transmit Freq Error 314 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB</p> <p>Frequency: 519.987500 MHz CF Step: 5.000 kHz Freq Offset: 0 Hz</p>



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	<p>MultView Spectrum Ref Level 55.00 dBm Offset 30.50 dB RBW 100 Hz Att 34 dB SWI 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 Date: 11.OCT.2019 20:14:22</p>
TX-DNH	4FSK	CH _{M1}	<p>MultView Spectrum Ref Level 55.00 dBm Offset 30.50 dB RBW 100 Hz Att 34 dB SWI 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 Date: 11.OCT.2019 20:21:53</p>
TX-DNH	4FSK	CH _{M2}	<p>MultView Spectrum Ref Level 55.00 dBm Offset 30.50 dB RBW 100 Hz Att 34 dB SWI 41.9 ms (=54 ms) VBW 300 Hz Mode Auto FFT Frequency Sweep M1[1] 46.96 dBm 511.9877400 MHz CF 511.9875 MHz 1001 pts 4.0 kHz/ Span 40.0 kHz Date: 11.OCT.2019 20:26:47</p>

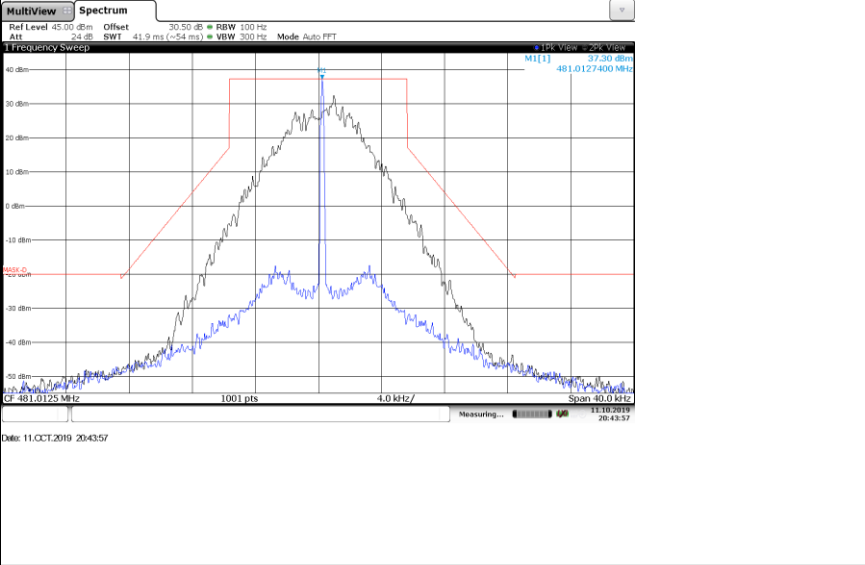
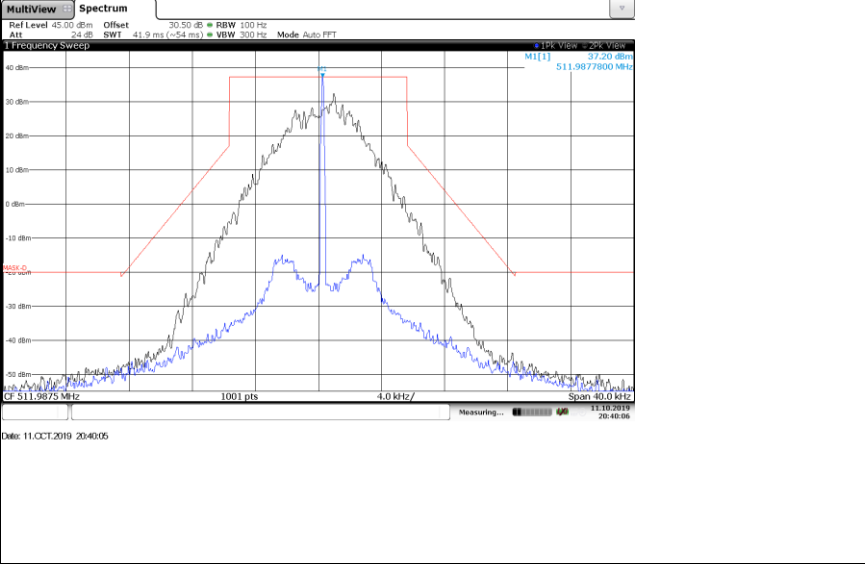
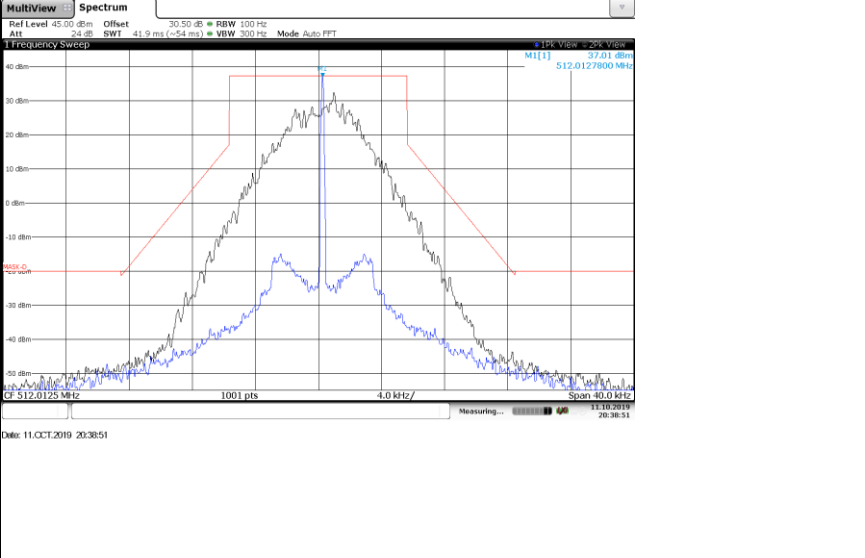


Appendix C:Emission Mask

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}	 <p>MultiView Spectrum Ref Level 45.00 dBm Offset 30.50 dB RBW 100 Hz Att 24 dB SWI 41.9 ms (<math>\pm 54\text{ ms}</math>) VBW 300 Hz Mode Auto FFT Frequency Sweep 40 dBm 30 dBm 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm -90 dBm -100 dBm CF 481.0125 MHz 1001 pts 4.0 kHz/ Span 40.0 kHz MI[1] 37.30 dBm 481.0127400 MHz Date: 11.OCT.2019 20:43:57</p>
TX-DNL	4FSK	CH _{M2}	 <p>MultiView Spectrum Ref Level 45.00 dBm Offset 30.50 dB RBW 100 Hz Att 24 dB SWI 41.9 ms (<math>\pm 54\text{ ms}</math>) VBW 300 Hz Mode Auto FFT Frequency Sweep 40 dBm 30 dBm 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm -90 dBm -100 dBm CF 511.9875 MHz 1001 pts 4.0 kHz/ Span 40.0 kHz MI[1] 37.20 dBm 511.9877600 MHz Date: 11.OCT.2019 20:40:05</p>
TX-DNL	4FSK	CH _{M3}	 <p>MultiView Spectrum Ref Level 45.00 dBm Offset 30.50 dB RBW 100 Hz Att 24 dB SWI 41.9 ms (<math>\pm 54\text{ ms}</math>) VBW 300 Hz Mode Auto FFT Frequency Sweep 40 dBm 30 dBm 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm -90 dBm -100 dBm CF 512.0125 MHz 1001 pts 4.0 kHz/ Span 40.0 kHz MI[1] 37.01 dBm 512.0127600 MHz Date: 11.OCT.2019 20:38:51</p>



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Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																								
TX-DNL	4FSK	CH _H	<p>Agilent Spectrum Analyzer: Spectrum</p> <p>Ref Level: 45.00 dBm Offset: 24.00 dB</p> <p>30.50 dB BW: 100 Hz</p> <p>Peak: 37.11 dBm</p> <p>519.9877800 MHz</p> <p>Span: 40.0 kHz</p> <p>1001 pts</p> <p>4.0 kHz</p> <p>Date: 11.OCT.2019 20:37:09</p>																																																								
TX-ANH	FM	CH _L	<p>Agilent Spectrum Analyzer: Spectrum Emission Mask</p> <p>Center Freq: 450.012500 MHz</p> <p>Center Freq: 450.012500 MHz</p> <p>Radio Std: None</p> <p>Trig: Free Run</p> <p>#Atten: 40 dB</p> <p>Radio Device: BTS</p> <p>Ref Offset: 38 dB</p> <p>Ref: 53.0 dBm</p> <p>10 dB/div</p> <p>Center: 450 MHz</p> <p>Span: 120 kHz</p> <p>Total Power Ref: 46.54 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Upper ΔLim(dB)</th> <th>Peak (dBm)</th> <th>Peak (Hz)</th> </tr> </thead> <tbody> <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> </tr> <tr> <td>5.625 kHz</td> <td>12.50 MHz</td> <td>100.0 Hz</td> <td>-28.57</td> <td>(8.07)</td> <td>-12.20 k</td> <td>29.95</td> <td>(-10.19)</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> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>-</td> <td>(-)</td> <td>-</td> <td>-</td> <td>(-)</td> </tr> </tbody> </table> <p>File <MASK D state> recalled</p>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Upper ΔLim(dB)	Peak (dBm)	Peak (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	-9.744	(-58.51)	-2.500 k	46.58	(-2.18)	5.625 kHz	12.50 MHz	100.0 Hz	-28.57	(8.07)	-12.20 k	29.95	(-10.19)	12.50 kHz	60.00 kHz	100.0 Hz	-27.79	(7.79)	-16.40 k	28.70	(-6.70)	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)	Upper ΔLim(dB)	Peak (dBm)	Peak (Hz)																																																				
0.0 Hz	5.625 kHz	100.0 Hz	-9.744	(-58.51)	-2.500 k	46.58	(-2.18)																																																				
5.625 kHz	12.50 MHz	100.0 Hz	-28.57	(8.07)	-12.20 k	29.95	(-10.19)																																																				
12.50 kHz	60.00 kHz	100.0 Hz	-27.79	(7.79)	-16.40 k	28.70	(-6.70)																																																				
4.000 MHz	8.000 MHz	1.000 MHz	-	(-)	-	-	(-)																																																				
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Appendix C:Emission Mask

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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																														
TX-ANL	FM	CH _{M2}	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 511.987500 MHz Center Freq: 511.987500 MHz Radio Std: None</p> <p>Trig: Free Run #Atten: 40 dB Radio Device: BTS</p> <p>Ref Offset 28 dB Ref 42.0 dBm</p> <p>Center 512 MHz Span 120 kHz</p> <p>Total Power Ref 37.69 dBm 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>-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>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	-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 _H	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 519.987500 MHz</p> <p>Ref Offset 1.35 dB Ref 42.0 dBm</p> <p>Center 520 MHz</p> <p>Span 120 kHz</p> <p>Total Power Ref 37.56 dBm 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>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) 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) 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) 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> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—) —</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—) —</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	29.70	(-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