

**Appendix A:Maximum Transmitter Power**

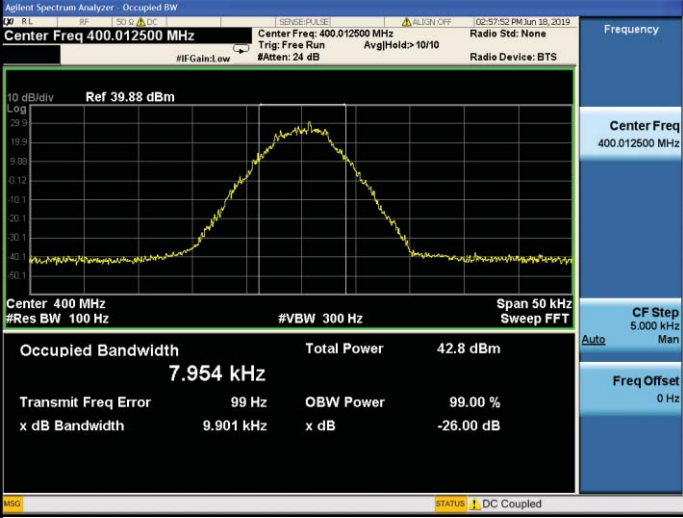
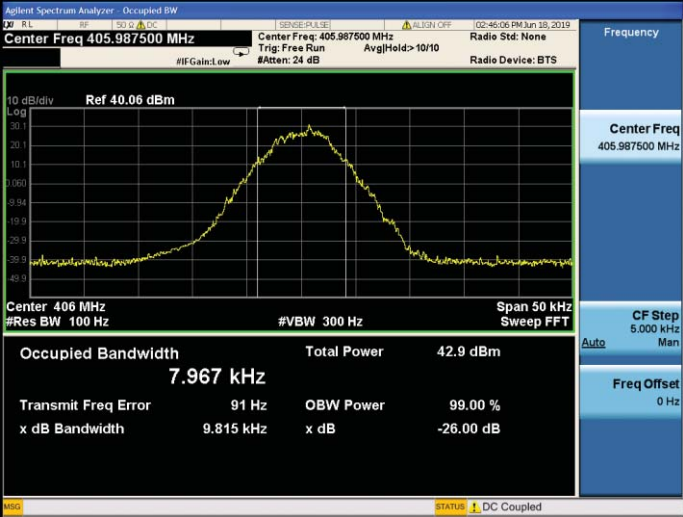
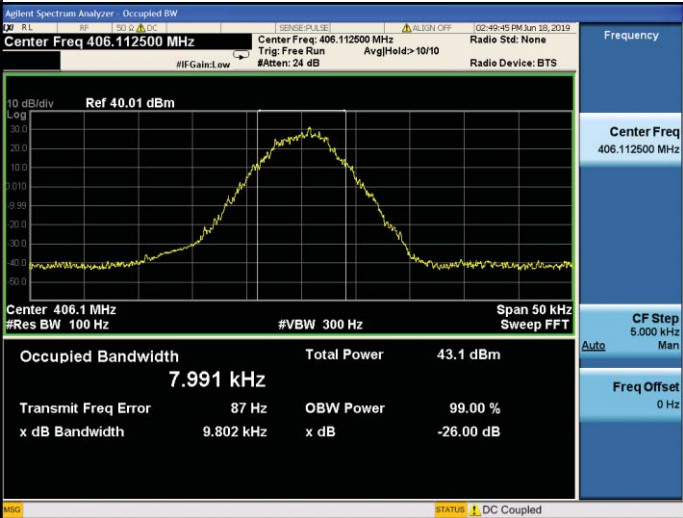
Operation Mode	Modulation Type	Test Channel	Measured Power(dBm)	Measured Power(W)	Rated Power(W)	Percentage (%)	Limit (%)	Result
TX-DNH	4FSK	CH _L	35.7	3.72	4.00	-7.1	±20	PASS
TX-DNH	4FSK	CH _{M1}	35.7	3.72	4.00	-7.1	±20	PASS
TX-DNH	4FSK	CH _{M2}	35.8	3.80	4.00	-5.0	±20	PASS
TX-DNH	4FSK	CH _{M3}	35.9	3.89	4.00	-2.7	±20	PASS
TX-DNH	4FSK	CH _H	35.8	3.80	4.00	-5.0	±20	PASS
TX-DNL	4FSK	CH _L	31.3	1.35	1.50	-10.1	±20	PASS
TX-DNL	4FSK	CH _{M1}	31.3	1.35	1.50	-10.1	±20	PASS
TX-DNL	4FSK	CH _{M2}	31.3	1.35	1.50	-10.1	±20	PASS
TX-DNL	4FSK	CH _{M3}	31.2	1.32	1.50	-12.1	±20	PASS
TX-DNL	4FSK	CH _H	31.5	1.41	1.50	-5.8	±20	PASS
TX-ANH	FM	CH _L	35.4	3.47	4.00	-13.3	±20	PASS
TX-ANH	FM	CH _{M1}	35.4	3.47	4.00	-13.3	±20	PASS
TX-ANH	FM	CH _{M2}	35.5	3.55	4.00	-11.3	±20	PASS
TX-ANH	FM	CH _{M3}	35.6	3.63	4.00	-9.2	±20	PASS
TX-ANH	FM	CH _H	35.4	3.47	4.00	-13.3	±20	PASS
TX-ANL	FM	CH _L	31.3	1.33	1.50	-11.1	±20	PASS
TX-ANL	FM	CH _{M1}	31.1	1.28	1.50	-14.5	±20	PASS
TX-ANL	FM	CH _{M2}	31.1	1.29	1.50	-14.3	±20	PASS
TX-ANL	FM	CH _{M3}	31.2	1.32	1.50	-11.9	±20	PASS
TX-ANL	FM	CH _H	31.3	1.35	1.50	-10.3	±20	PASS

**Appendix B:Occupied Bandwidth**

Operation Mode	Modulation Type	Test Channel	Occupied Bandwidth		99% Limit(kHz)	Result
			99%(kHz)	26dB(kHz)		
TX-DNH	4FSK	CH _L	7.902	9.913	≤11.25	PASS
TX-DNH	4FSK	CH _{M1}	7.976	9.677	≤11.25	PASS
TX-DNH	4FSK	CH _{M2}	7.948	9.802	≤11.25	PASS
TX-DNH	4FSK	CH _{M3}	8.022	10.026	≤11.25	PASS
TX-DNH	4FSK	CH _H	7.779	9.535	≤11.25	PASS
TX-DNL	4FSK	CH _L	7.790	9.950	≤11.25	PASS
TX-DNL	4FSK	CH _{M1}	7.997	9.995	≤11.25	PASS
TX-DNL	4FSK	CH _{M2}	7.885	9.660	≤11.25	PASS
TX-DNL	4FSK	CH _{M3}	7.813	9.827	≤11.25	PASS
TX-DNL	4FSK	CH _H	7.723	9.463	≤11.25	PASS
TX-ANH	FM	CH _L	5.175	10.044	≤11.25	PASS
TX-ANH	FM	CH _{M1}	5.174	10.041	≤11.25	PASS
TX-ANH	FM	CH _{M2}	5.179	10.048	≤11.25	PASS
TX-ANH	FM	CH _{M3}	5.175	10.068	≤11.25	PASS
TX-ANH	FM	CH _H	5.169	10.034	≤11.25	PASS
TX-ANL	FM	CH _L	5.169	10.038	≤11.25	PASS
TX-ANL	FM	CH _{M1}	5.176	10.039	≤11.25	PASS
TX-ANL	FM	CH _{M2}	5.178	10.071	≤11.25	PASS
TX-ANL	FM	CH _{M3}	5.175	10.070	≤11.25	PASS
TX-ANL	FM	CH _H	5.170	10.038	≤11.25	PASS

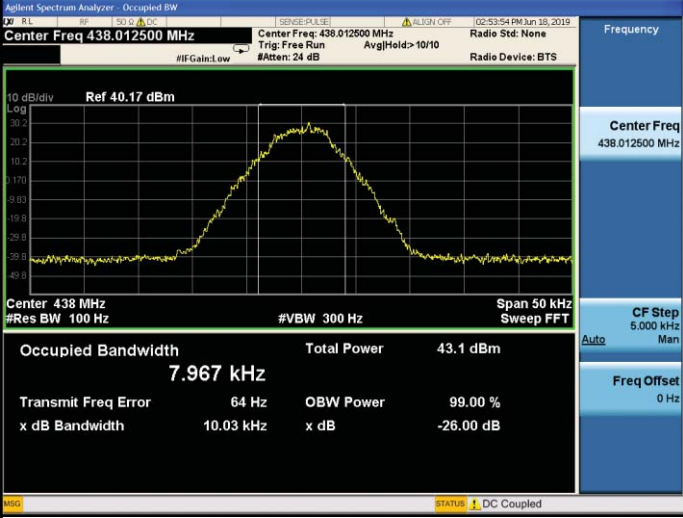
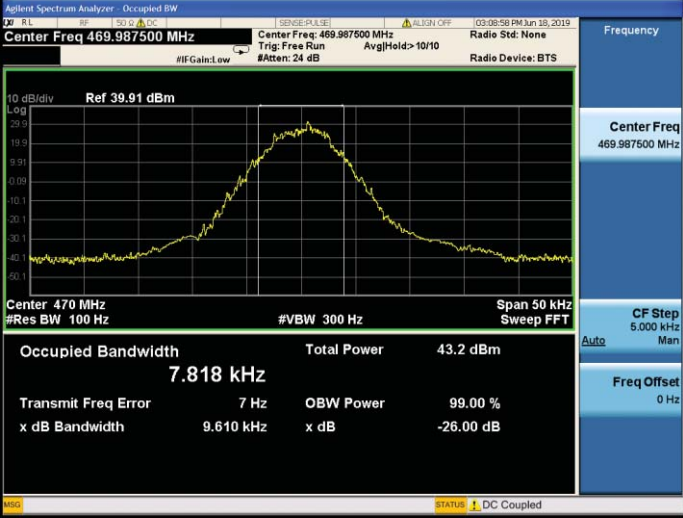
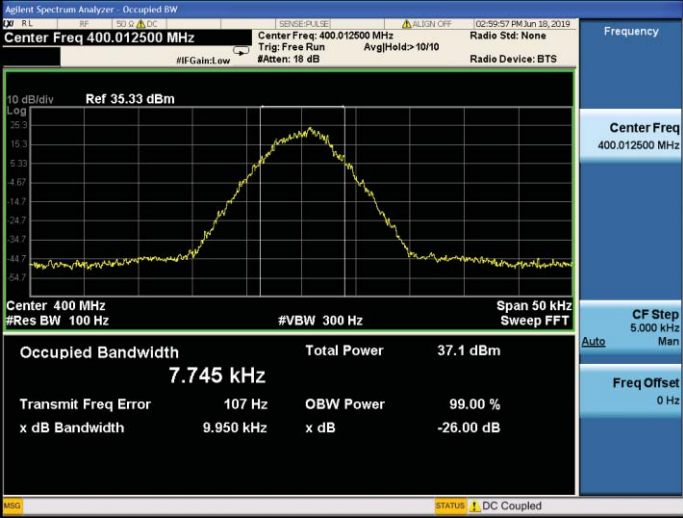


Appendix B:Occupied Bandwidth

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	



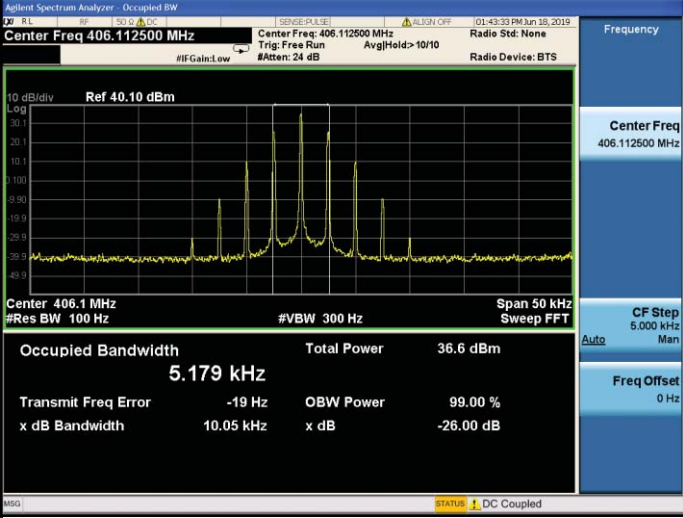
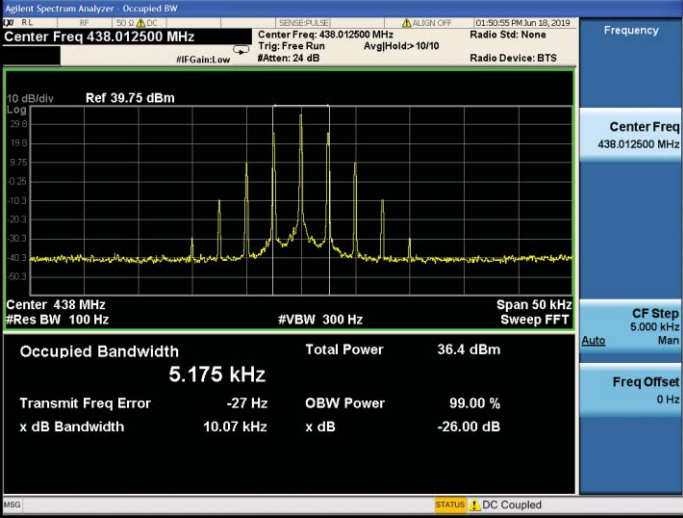
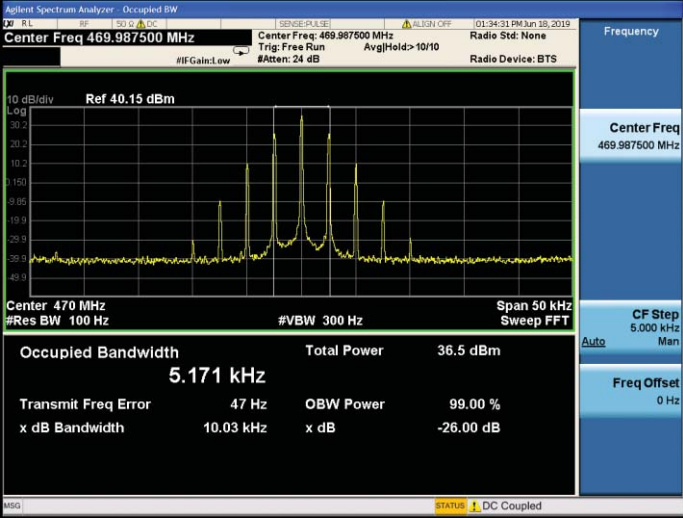


Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _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 Ref 36.13 dBm 10 dB/div Center 470 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.753 kHz Total Power 37.3 dBm Transmit Freq Error 70 Hz OBW Power 99.00 % x dB Bandwidth 9.507 kHz x dB -26.00 dB Frequency Center Freq 469.987500 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 400.012500 MHz Center Freq: 400.012500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 39.55 dBm 10 dB/div Center 400 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 5.175 kHz Total Power 35.7 dBm Transmit Freq Error -19 Hz OBW Power 99.00 % x dB Bandwidth 10.04 kHz x dB -26.00 dB Frequency Center Freq 400.012500 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 405.987500 MHz Center Freq: 405.987500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 40.23 dBm 10 dB/div Center 406 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 5.175 kHz Total Power 36.6 dBm Transmit Freq Error -14 Hz OBW Power 99.00 % x dB Bandwidth 10.04 kHz x dB -26.00 dB Frequency Center Freq 405.987500 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-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 Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 33.70 dBm 10 dB/div Center 400 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 5.169 kHz Total Power 29.9 dBm Transmit Freq Error -11 Hz OBW Power 99.00 % x dB Bandwidth 10.04 kHz x dB -26.00 dB Frequency Center Freq 400.012500 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 405.987500 MHz Center Freq: 405.987500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 34.80 dBm 10 dB/div Center 406 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 5.177 kHz Total Power 31.1 dBm Transmit Freq Error -18 Hz OBW Power 99.00 % x dB Bandwidth 10.04 kHz x dB -26.00 dB Frequency Center Freq 405.987500 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 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 34.74 dBm 10 dB/div Center 406.1 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 5.178 kHz Total Power 31.4 dBm Transmit Freq Error -27 Hz OBW Power 99.00 % x dB Bandwidth 10.07 kHz x dB -26.00 dB Frequency Center Freq 406.112500 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 438.012500 MHz Center Freq: 438.012500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref 32.68 dBm 10 dB/div Center 438 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 5.175 kHz Total Power 29.2 dBm Transmit Freq Error -27 Hz OBW Power 99.00 % x dB Bandwidth 10.07 kHz x dB -26.00 dB Frequency Center Freq 438.012500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz 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 Ref 34.17 dBm 10 dB/div Center 470 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 5.170 kHz Total Power 30.5 dBm Transmit Freq Error 10 Hz OBW Power 99.00 % x dB Bandwidth 10.04 kHz x dB -26.00 dB Frequency Center Freq 469.987500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz 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 Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.00 0.00 -9.00 -19.0 -29.0 -39.0 -49.0 Center 400 MHz Span 120 kHz Total Power Ref 36.14 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 ΔLim(dB)</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>36.13</td><td>(-1.09)</td><td>-50.00</td><td>36.04</td><td>(-1.18)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.21</td><td>(-7.63)</td><td>-12.00 k</td><td>-41.50</td><td>(-7.29)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.38</td><td>(-15.38)</td><td>-15.65 k</td><td>-35.25</td><td>(-15.25)</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></tbody></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 ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	36.13	(-1.09)	-50.00	36.04	(-1.18)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.21	(-7.63)	-12.00 k	-41.50	(-7.29)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.38	(-15.38)	-15.65 k	-35.25	(-15.25)	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 ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.00 0.00 -9.00 -19.0 -29.0 -39.0 -49.0 Center 400 MHz Span 120 kHz Total Power Ref 39.35 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 ΔLim(dB)</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>25.45</td><td>(-11.77)</td><td>-400.0</td><td>27.68</td><td>(-9.55)</td><td>550.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.84</td><td>(-4.54)</td><td>-12.10 k</td><td>-34.75</td><td>(-0.54)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.08</td><td>(-15.08)</td><td>-13.90 k</td><td>-35.27</td><td>(-15.27)</td><td>15.05 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 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 ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	25.45	(-11.77)	-400.0	27.68	(-9.55)	550.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.84	(-4.54)	-12.10 k	-34.75	(-0.54)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.08	(-15.08)	-13.90 k	-35.27	(-15.27)	15.05 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 ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																										
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Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																										
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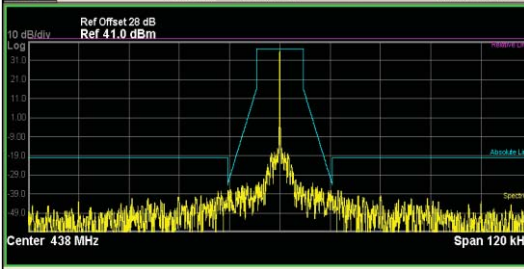
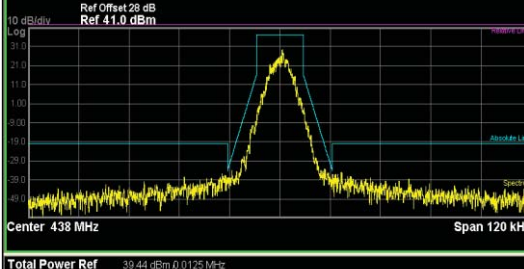
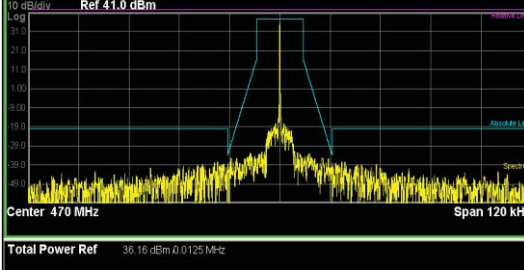


Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log Center 406 MHz Span 120 kHz Total Power Ref 40.35 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>25.05</td><td>(-12.38)</td><td>-900.0</td><td>29.20</td><td>(-8.23)</td><td>800.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.02</td><td>(-0.73)</td><td>-12.40 k</td><td>-37.12</td><td>(-4.56)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.35</td><td>(-16.35)</td><td>-13.85 k</td><td>-36.29</td><td>(-16.29)</td><td>14.70 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved (STATUS) Frequency Center Freq 405.987500 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	25.05	(-12.38)	-900.0	29.20	(-8.23)	800.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.02	(-0.73)	-12.40 k	-37.12	(-4.56)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.35	(-16.35)	-13.85 k	-36.29	(-16.29)	14.70 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			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 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log Center 406.1 MHz Span 120 kHz Total Power Ref 36.47 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>36.39</td><td>(-0.91)</td><td>-50.00</td><td>36.30</td><td>(-1.00)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.93</td><td>(-6.25)</td><td>-12.30 k</td><td>-39.34</td><td>(-6.66)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.54</td><td>(-16.54)</td><td>-15.40 k</td><td>-36.69</td><td>(-16.69)</td><td>15.35 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK.D.state> recalled (STATUS) Frequency Center Freq 406.112500 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	36.39	(-0.91)	-50.00	36.30	(-1.00)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.93	(-6.25)	-12.30 k	-39.34	(-6.66)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.54	(-16.54)	-15.40 k	-36.69	(-16.69)	15.35 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
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TX-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log Center 406.1 MHz Span 120 kHz Total Power Ref 39.71 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>25.62</td><td>(-11.68)</td><td>-2.350 k</td><td>27.51</td><td>(-9.79)</td><td>1.500 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.45</td><td>(-0.67)</td><td>-12.45 k</td><td>-35.66</td><td>(-1.88)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.99</td><td>(-13.99)</td><td>-13.45 k</td><td>-35.46</td><td>(-15.46)</td><td>15.25 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></tbody></table> File <Temp.png> saved (STATUS) Frequency Center Freq 406.112500 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	25.62	(-11.68)	-2.350 k	27.51	(-9.79)	1.500 k	5.625 kHz	12.50 kHz	100.0 Hz	-34.45	(-0.67)	-12.45 k	-35.66	(-1.88)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.99	(-13.99)	-13.45 k	-35.46	(-15.46)	15.25 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	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz PASS Ref Offset 28 dB Ref 41.0 dBm  Center 438 MHz Span 120 kHz Total Power Ref 35.97 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>36.05</td><td>(-1.21)</td><td>0.0</td><td>36.05</td><td>(-1.21)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-37.11</td><td>(-4.75)</td><td>-12.25 k</td><td>-37.34</td><td>(-4.98)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.45</td><td>(-17.45)</td><td>-13.95 k</td><td>-37.33</td><td>(-17.33)</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></table> File <MASK.D.state> recalled 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	36.05	(-1.21)	0.0	36.05	(-1.21)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.11	(-4.75)	-12.25 k	-37.34	(-4.98)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.45	(-17.45)	-13.95 k	-37.33	(-17.33)	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	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
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TX-DNH	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz PASS Ref Offset 28 dB Ref 41.0 dBm  Center 438 MHz Span 120 kHz Total Power Ref 39.44 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>25.23</td><td>(-12.03)</td><td>-150.0</td><td>29.55</td><td>(-7.71)</td><td>600.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.28</td><td>(-4.83)</td><td>-12.40 k</td><td>-39.40</td><td>(-5.95)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.66</td><td>(-15.66)</td><td>-13.80 k</td><td>-35.02</td><td>(-15.02)</td><td>14.75 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> File <Temp.png> saved 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	25.23	(-12.03)	-150.0	29.55	(-7.71)	600.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.28	(-4.83)	-12.40 k	-39.40	(-5.95)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.66	(-15.66)	-13.80 k	-35.02	(-15.02)	14.75 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-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz PASS Ref Offset 28 dB Ref 41.0 dBm  Center 470 MHz Span 120 kHz Total Power Ref 36.16 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>36.12</td><td>(-1.19)</td><td>0.0</td><td>36.12</td><td>(-1.19)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.14</td><td>(-4.01)</td><td>-12.50 k</td><td>-37.84</td><td>(-3.72)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.45</td><td>(-17.45)</td><td>-14.85 k</td><td>-37.49</td><td>(-17.49)</td><td>14.85 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File <MASK.D.state> recalled 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	36.12	(-1.19)	0.0	36.12	(-1.19)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.14	(-4.01)	-12.50 k	-37.84	(-3.72)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.45	(-17.45)	-14.85 k	-37.49	(-17.49)	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	—	(—)	—	—	(—)	—
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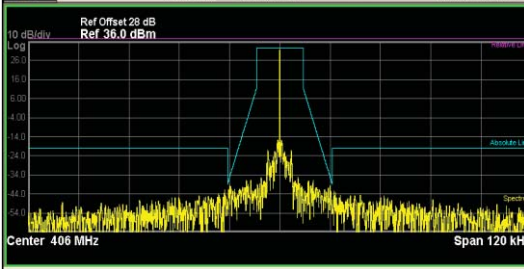
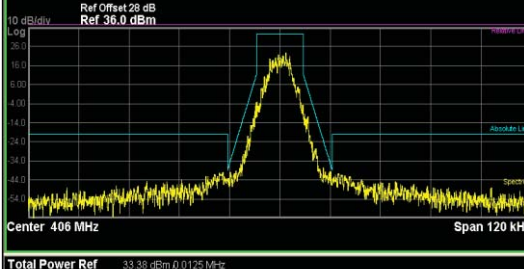
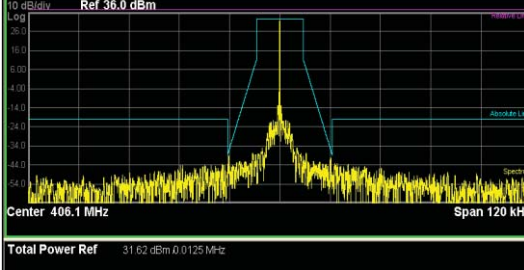
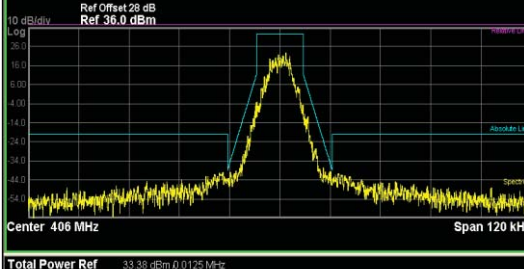
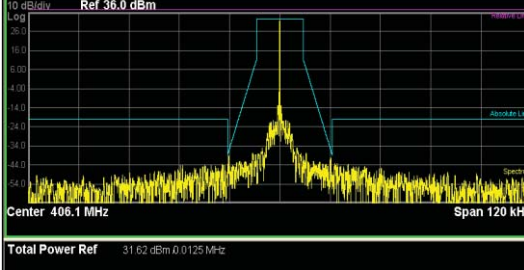
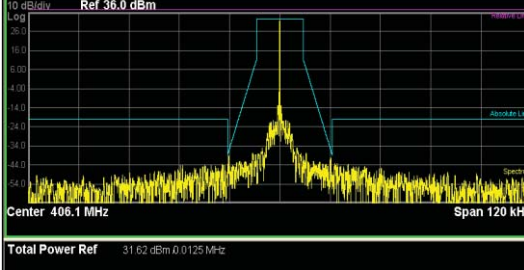
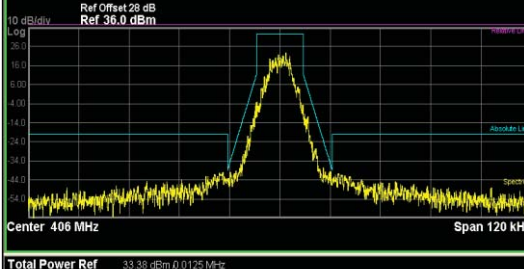
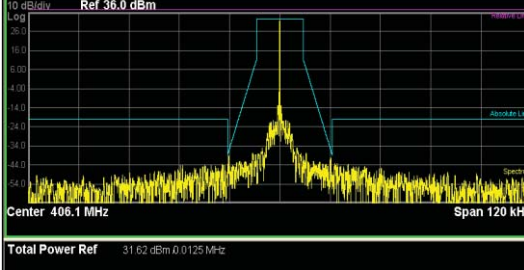
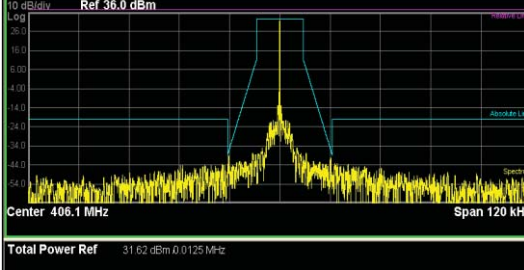
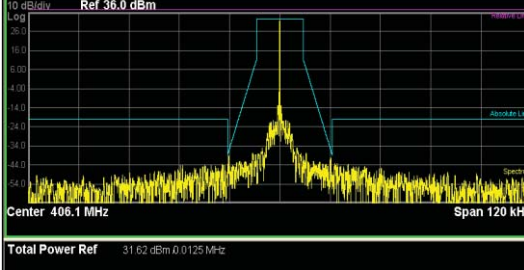


Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Ref Offset 28 dB Ref 41.0 dBm Center 470 MHz Span 120 kHz Total Power Ref 39.62 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>25.65</td><td>(-11.66)</td><td>-750.0</td><td>29.53</td><td>(-7.78)</td><td>700.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.21</td><td>(-2.08)</td><td>-12.50 k</td><td>-36.45</td><td>(-3.05)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-31.16</td><td>(-11.16)</td><td>-12.70 k</td><td>-30.43</td><td>(-10.43)</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></tbody></table> Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz 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	25.65	(-11.66)	-750.0	29.53	(-7.78)	700.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.21	(-2.08)	-12.50 k	-36.45	(-3.05)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-31.16	(-11.16)	-12.70 k	-30.43	(-10.43)	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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TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Ref Offset 28 dB Ref 36.0 dBm Center 400 MHz Span 120 kHz Total Power Ref 31.06 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>30.47</td><td>(-1.10)</td><td>-50.00</td><td>30.42</td><td>(-1.14)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.91</td><td>(-5.31)</td><td>-12.05 k</td><td>-44.09</td><td>(-6.04)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.46</td><td>(-20.46)</td><td>-14.30 k</td><td>-40.22</td><td>(-20.22)</td><td>14.25 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></tbody></table> Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz 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	30.47	(-1.10)	-50.00	30.42	(-1.14)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.91	(-5.31)	-12.05 k	-44.09	(-6.04)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.46	(-20.46)	-14.30 k	-40.22	(-20.22)	14.25 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-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Ref Offset 28 dB Ref 36.0 dBm Center 400 MHz Span 120 kHz Total Power Ref 33.68 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>21.07</td><td>(-10.49)</td><td>-50.00</td><td>23.92</td><td>(-7.65)</td><td>800.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.56</td><td>(-2.69)</td><td>-12.50 k</td><td>-40.51</td><td>(-2.09)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.28</td><td>(-21.28)</td><td>-14.65 k</td><td>-41.23</td><td>(-21.23)</td><td>12.95 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> Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	21.07	(-10.49)	-50.00	23.92	(-7.65)	800.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.56	(-2.69)	-12.50 k	-40.51	(-2.09)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.28	(-21.28)	-14.65 k	-41.23	(-21.23)	12.95 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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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 PASS Ref Offset 28 dB Ref 36.0 dBm  Center 406 MHz Span 120 kHz Total Power Ref 31.49 dBm 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>31.45</td><td>(-1.04)</td><td>0.0</td><td>31.45</td><td>(-1.04)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.43</td><td>(-4.48)</td><td>-11.95 k</td><td>-39.55</td><td>(-4.60)</td><td>11.95 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.91</td><td>(-21.91)</td><td>-13.10 k</td><td>-42.49</td><td>(-22.49)</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 405.987500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz <tr><td>TX-DNL</td><td>4FSK</td><td>CH_{M1}</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz PASS Ref Offset 28 dB Ref 36.0 dBm  Center 406 MHz Span 120 kHz Total Power Ref 33.38 dBm 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>21.68</td><td>(-10.81)</td><td>-300.0</td><td>22.60</td><td>(-9.89)</td><td>1.500 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.39</td><td>(-4.44)</td><td>-12.50 k</td><td>-39.68</td><td>(-3.27)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.97</td><td>(-19.97)</td><td>-13.55 k</td><td>-40.61</td><td>(-20.61)</td><td>14.00 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 405.987500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz <tr><td>TX-DNL</td><td>4FSK</td><td>CH_{M2}</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz PASS Ref Offset 28 dB Ref 36.0 dBm  Center 406.1 MHz Span 120 kHz Total Power Ref 31.62 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>31.39</td><td>(-1.06)</td><td>0.0</td><td>31.39</td><td>(-1.06)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.45</td><td>(-2.64)</td><td>-12.20 k</td><td>-40.53</td><td>(-4.08)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.45</td><td>(-23.45)</td><td>-13.80 k</td><td>-43.22</td><td>(-23.22)</td><td>13.75 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Auto 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	31.45	(-1.04)	0.0	31.45	(-1.04)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-39.43	(-4.48)	-11.95 k	-39.55	(-4.60)	11.95 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.91	(-21.91)	-13.10 k	-42.49	(-22.49)	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	—	(—)	—	—	(—)	—	TX-DNL	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz PASS Ref Offset 28 dB Ref 36.0 dBm  Center 406 MHz Span 120 kHz Total Power Ref 33.38 dBm 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>21.68</td><td>(-10.81)</td><td>-300.0</td><td>22.60</td><td>(-9.89)</td><td>1.500 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.39</td><td>(-4.44)</td><td>-12.50 k</td><td>-39.68</td><td>(-3.27)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.97</td><td>(-19.97)</td><td>-13.55 k</td><td>-40.61</td><td>(-20.61)</td><td>14.00 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 405.987500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz <tr><td>TX-DNL</td><td>4FSK</td><td>CH_{M2}</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz PASS Ref Offset 28 dB Ref 36.0 dBm  Center 406.1 MHz Span 120 kHz Total Power Ref 31.62 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>31.39</td><td>(-1.06)</td><td>0.0</td><td>31.39</td><td>(-1.06)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.45</td><td>(-2.64)</td><td>-12.20 k</td><td>-40.53</td><td>(-4.08)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.45</td><td>(-23.45)</td><td>-13.80 k</td><td>-43.22</td><td>(-23.22)</td><td>13.75 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz </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	21.68	(-10.81)	-300.0	22.60	(-9.89)	1.500 k	5.625 kHz	12.50 kHz	100.0 Hz	-43.39	(-4.44)	-12.50 k	-39.68	(-3.27)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.97	(-19.97)	-13.55 k	-40.61	(-20.61)	14.00 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 _{M2}	Agilent Spectrum Analyzer - 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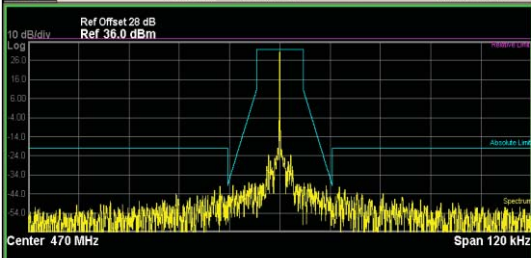
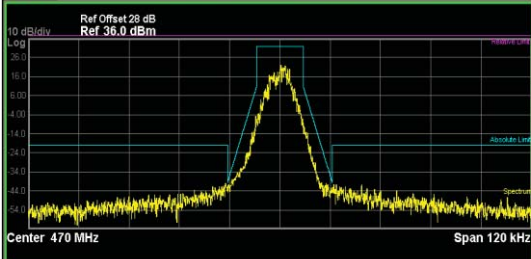
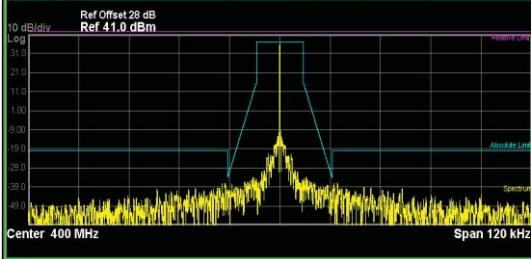


Appendix C:Emission Mask

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 28 dB Ref 36.0 dBm 10 dB/div Log 24.0 20.0 16.0 12.0 8.0 4.0 0.0 -4.0 -8.0 -12.0 -16.0 -20.0 -24.0 -28.0 -32.0 -36.0 -40.0 -44.0 -48.0 -52.0 -56.0 -60.0 -64.0 -68.0 -72.0 -76.0 -80.0 -84.0 -88.0 -92.0 -96.0 -100.0 -104.0 -108.0 -112.0 -116.0 -120.0 -124.0 -128.0 -132.0 -136.0 -140.0 -144.0 -148.0 -152.0 -156.0 -160.0 -164.0 -168.0 -172.0 -176.0 -180.0 -184.0 -188.0 -192.0 -196.0 -200.0 -204.0 -208.0 -212.0 -216.0 -220.0 -224.0 -228.0 -232.0 -236.0 -240.0 -244.0 -248.0 -252.0 -256.0 -260.0 -264.0 -268.0 -272.0 -276.0 -280.0 -284.0 -288.0 -292.0 -296.0 -300.0 -304.0 -308.0 -312.0 -316.0 -320.0 -324.0 -328.0 -332.0 -336.0 -340.0 -344.0 -348.0 -352.0 -356.0 -360.0 -364.0 -368.0 -372.0 -376.0 -380.0 -384.0 -388.0 -392.0 -396.0 -400.0 -404.0 -408.0 -412.0 -416.0 -420.0 -424.0 -428.0 -432.0 -436.0 -440.0 -444.0 -448.0 -452.0 -456.0 -460.0 -464.0 -468.0 -472.0 -476.0 -480.0 -484.0 -488.0 -492.0 -496.0 -500.0 -504.0 -508.0 -512.0 -516.0 -520.0 -524.0 -528.0 -532.0 -536.0 -540.0 -544.0 -548.0 -552.0 -556.0 -560.0 -564.0 -568.0 -572.0 -576.0 -580.0 -584.0 -588.0 -592.0 -596.0 -600.0 -604.0 -608.0 -612.0 -616.0 -620.0 -624.0 -628.0 -632.0 -636.0 -640.0 -644.0 -648.0 -652.0 -656.0 -660.0 -664.0 -668.0 -672.0 -676.0 -680.0 -684.0 -688.0 -692.0 -696.0 -700.0 -704.0 -708.0 -712.0 -716.0 -720.0 -724.0 -728.0 -732.0 -736.0 -740.0 -744.0 -748.0 -752.0 -756.0 -760.0 -764.0 -768.0 -772.0 -776.0 -780.0 -784.0 -788.0 -792.0 -796.0 -800.0 -804.0 -808.0 -812.0 -816.0 -820.0 -824.0 -828.0 -832.0 -836.0 -840.0 -844.0 -848.0 -852.0 -856.0 -860.0 -864.0 -868.0 -872.0 -876.0 -880.0 -884.0 -888.0 -892.0 -896.0 -900.0 -904.0 -908.0 -912.0 -916.0 -920.0 -924.0 -928.0 -932.0 -936.0 -940.0 -944.0 -948.0 -952.0 -956.0 -960.0 -964.0 -968.0 -972.0 -976.0 -980.0 -984.0 -988.0 -992.0 -996.0 -1000.0 -1004.0 -1008.0 -1012.0 -1016.0 -1020.0 -1024.0 -1028.0 -1032.0 -1036.0 -1040.0 -1044.0 -1048.0 -1052.0 -1056.0 -1060.0 -1064.0 -1068.0 -1072.0 -1076.0 -1080.0 -1084.0 -1088.0 -1092.0 -1096.0 -1100.0 -1104.0 -1108.0 -1112.0 -1116.0 -1120.0 -1124.0 -1128.0 -1132.0 -1136.0 -1140.0 -1144.0 -1148.0 -1152.0 -1156.0 -1160.0 -1164.0 -1168.0 -1172.0 -1176.0 -1180.0 -1184.0 -1188.0 -1192.0 -1196.0 -1200.0 -1204.0 -1208.0 -1212.0 -1216.0 -1220.0 -1224.0 -1228.0 -1232.0 -1236.0 -1240.0 -1244.0 -1248.0 -1252.0 -1256.0 -1260.0 -1264.0 -1268.0 -1272.0 -1276.0 -1280.0 -1284.0 -1288.0 -1292.0 -1296.0 -1300.0 -1304.0 -1308.0 -1312.0 -1316.0 -1320.0 -1324.0 -1328.0 -1332.0 -1336.0 -1340.0 -1344.0 -1348.0 -1352.0 -1356.0 -1360.0 -1364.0 -1368.0 -1372.0 -1376.0 -1380.0 -1384.0 -1388.0 -1392.0 -1396.0 -1400.0 -1404.0 -1408.0 -1412.0 -1416.0 -1420.0 -1424.0 -1428.0 -1432.0 -1436.0 -1440.0 -1444.0 -1448.0 -1452.0 -1456.0 -1460.0 -1464.0 -1468.0 -1472.0 -1476.0 -1480.0 -1484.0 -1488.0 -1492.0 -1496.0 -1500.0 -1504.0 -1508.0 -1512.0 -1516.0 -1520.0 -1524.0 -1528.0 -1532.0 -1536.0 -1540.0 -1544.0 -1548.0 -1552.0 -1556.0 -1560.0 -1564.0 -1568.0 -1572.0 -1576.0 -1580.0 -1584.0 -1588.0 -1592.0 -1596.0 -1600.0 -1604.0 -1608.0 -1612.0 -1616.0 -1620.0 -1624.0 -1628.0 -1632.0 -1636.0 -1640.0 -1644.0 -1648.0 -1652.0 -1656.0 -1660.0 -1664.0 -1668.0 -1672.0 -1676.0 -1680.0 -1684.0 -1688.0 -1692.0 -1696.0 -1700.0 -1704.0 -1708.0 -1712.0 -1716.0 -1720.0 -1724.0 -1728.0 -1732.0 -1736.0 -1740.0 -1744.0 -1748.0 -1752.0 -1756.0 -1760.0 -1764.0 -1768.0 -1772.0 -1776.0 -1780.0 -1784.0 -1788.0 -1792.0 -1796.0 -1800.0 -1804.0 -1808.0 -1812.0 -1816.0 -1820.0 -1824.0 -1828.0 -1832.0 -1836.0 -1840.0 -1844.0 -1848.0 -1852.0 -1856.0 -1860.0 -1864.0 -1868.0 -1872.0 -1876.0 -1880.0 -1884.0 -1888.0 -1892.0 -1896.0 -1900.0 -1904.0 -1908.0 -1912.0 -1916.0 -1920.0 -1924.0 -1928.0 -1932.0 -1936.0 -1940.0 -1944.0 -1948.0 -1952.0 -1956.0 -1960.0 -1964.0 -1968.0 -1972.0 -1976.0 -1980.0 -1984.0 -1988.0 -1992.0 -1996.0 -2000.0 -2004.0 -2008.0 -2012.0 -2016.0 -2020.0 -2024.0 -2028.0 -2032.0 -2036.0 -2040.0 -2044.0 -2048.0 -2052.0 -2056.0 -2060.0 -2064.0 -2068.0 -2072.0 -2076.0 -2080.0 -2084.0 -2088.0 -2092.0 -2096.0 -2100.0 -2104.0 -2108.0 -2112.0 -2116.0 -2120.0 -2124.0 -2128.0 -2132.0 -2136.0 -2140.0 -2144.0 -2148.0 -2152.0 -2156.0 -2160.0 -2164.0 -2168.0 -2172.0 -2176.0 -2180.0 -2184.0 -2188.0 -2192.0 -2196.0 -2200.0 -2204.0 -2208.0 -2212.0 -2216.0 -2220.0 -2224.0 -2228.0 -2232.0 -2236.0 -2240.0 -2244.0 -2248.0 -2252.0 -2256.0 -2260.0 -2264.0 -2268.0 -2272.0 -2276.0 -2280.0 -2284.0 -2288.0 -2292.0 -2296.0 -2300.0 -2304.0 -2308.0 -2312.0 -2316.0 -2320.0 -2324.0 -2328.0 -2332.0 -2336.0 -2340.0 -2344.0 -2348.0 -2352.0 -2356.0 -2360.0 -2364.0 -2368.0 -2372.0 -2376.0 -2380.0 -2384.0 -2388.0 -2392.0 -2396.0 -2400.0 -2404.0 -2408.0 -2412.0 -2416.0 -2420.0 -2424.0 -2428.0 -2432.0 -2436.0 -2440.0 -2444.0 -2448.0 -2452.0 -2456.0 -2460.0 -2464.0 -2468.0 -2472.0 -2476.0 -2480.0 -2484.0 -2488.0 -2492.0 -2496.0 -2500.0 -2504.0 -2508.0 -2512.0 -2516.0 -2520.0 -2524.0 -2528.0 -2532.0 -2536.0 -2540.0 -2544.0 -2548.0 -2552.0 -2556.0 -2560.0 -2564.0 -2568.0 -2572.0 -2576.0 -2580.0 -2584.0 -2588.0 -2592.0 -2596.0 -2600.0 -2604.0 -2608.0 -2612.0 -2616.0 -2620.0 -2624.0 -2628.0 -2632.0 -2636.0 -2640.0 -2644.0 -2648.0 -2652.0 -2656.0 -2660.0 -2664.0 -2668.0 -2672.0 -2676.0 -2680.0 -2684.0 -2688.0 -2692.0 -2696.0 -2700.0 -2704.0 -2708.0 -2712.0 -2716.0 -2720.0 -2724.0 -2728.0 -2732.0 -2736.0 -2740.0 -2744.0 -2748.0 -2752.0 -2756.0 -2760.0 -2764.0 -2768.0 -2772.0 -2776.0 -2780.0 -2784.0 -2788.0 -2792.0 -2796.0 -2800.0 -2804.0 -2808.0 -2812.0 -2816.0 -2820.0 -2824.0 -2828.0 -2832.0 -2836.0 -2840.0 -2844.0 -2848.0 -2852.0 -2856.0 -2860.0 -2864.0 -2868.0 -2872.0 -2876.0 -2880.0 -2884.0 -2888.0 -2892.0 -2896.0 -2900.0 -2904.0 -2908.0 -2912.0 -2916.0 -2920.0 -2924.0 -2928.0 -2932.0 -2936.0 -2940.0 -2944.0 -2948.0 -2952.0 -2956.0 -2960.0 -2964.0 -2968.0 -2972.0 -2976.0 -2980.0 -2984.0 -2988.0 -2992.0 -2996.0 -3000.0 -3004.0 -3008.0 -3012.0 -3016.0 -3020.0 -3024.0 -3028.0 -3032.0 -3036.0 -3040.0 -3044.0 -3048.0 -3052.0 -3056.0 -3060.0 -3064.0 -3068.0 -3072.0 -3076.0 -3080.0 -3084.0 -3088.0 -3092.0 -3096.0 -3100.0 -3104.0 -3108.0 -3112.0 -3116.0 -3120.0 -3124.0 -3128.0 -3132.0 -3136.0 -3140.0 -3144.0 -3148.0 -3152.0 -3156.0 -3160.0 -3164.0 -3168.0 -3172.0 -3176.0 -3180.0 -3184.0 -3188.0 -3192.0 -3196.0 -3200.0 -3204.0 -3208.0 -3212.0 -3216.0 -3220.0 -3224.0 -3228.0 -3232.0 -3236.0 -3240.0 -3244.0 -3248.0 -3252.0 -3256.0 -3260.0 -3264.0 -3268.0 -3272.0 -3276.0 -3280.0 -3284.0 -3288.0 -3292.0 -3296.0 -3300.0 -3304.0 -3308.0 -3312.0 -3316.0 -3320.0 -3324.0 -3328.0 -3332.0 -3336.0 -3340.0 -3344.0 -3348.0 -3352.0 -3356.0 -3360.0 -3364.0 -3368.0 -3372.0 -3376.0 -3380.0 -3384.0 -3388.0 -3392.0 -3396.0 -3400.0 -3404.0 -3408.0 -3412.0 -3416.0 -3420.0 -3424.0 -3428.0 -3432.0 -3436.0 -3440.0 -3444.0 -3448.0 -3452.0 -3456.0 -3460.0 -3464.0 -3468.0 -3472.0 -3476.0 -3480.0 -3484.0 -3488.0 -3492.0 -3496.0 -3500.0 -3504.0 -3508.0 -3512.0 -3516.0 -3520.0 -3524.0 -3528.0 -3532.0 -3536.0 -3540.0 -3544.0 -3548.0 -3552.0 -3556.0 -3560.0 -3564.0 -3568.0 -3572.0 -3576.0 -3580.0 -3584.0 -3588.0 -3592.0 -3596.0 -3600.0 -3604.0 -3608.0 -3612.0 -3616.0 -3620.0 -3624.0 -3628.0 -3632.0 -3636.0 -3640.0 -3644.0 -3648.0 -3652.0 -3656.0 -3660.0 -3664.0 -3668.0 -3672.0 -3676.0 -3680.0 -3684.0 -3688.0 -3692.0 -3696.0 -3700.0 -3704.0 -3708.0 -3712.0 -3716.0 -3720.0 -3724.0 -3728.0 -3732.0 -3736.0 -3740.0 -3744.0 -3748.0 -3752.0 -3756.0 -3760.0 -3764.0 -3768.0 -3772.0 -3776.0 -3780.0 -3784.0 -3788.0 -3792.0 -3796.0 -3800.0 -3804.0 -3808.0 -3812.0 -3816.0 -3820.0 -3824.0 -3828.0 -3832.0 -3836.0 -3840.0 -3844.0 -3848.0 -3852.0 -3856.0 -3860.0 -3864.0 -3868.0 -3872.0 -3876.0 -3880.0 -3884.0 -3888.0 -3892.0 -3896.0 -3900.0 -3904.0 -3908.0 -3912.0 -3916.0 -3920.0 -3924.0 -3928.0 -3932.0 -3936.0 -3940.0 -3944.0 -3948.0 -3952.0 -3956.0 -3960.0 -3964.0 -3968.0 -3972.0 -3976.0 -3980.0 -3984.0 -3988.0 -3992.0 -3996.0 -4000.0 -4004.0 -4008.0 -4012.0 -4016.0 -4020.0 -4024.0 -4028.0 -4032.0 -4036.0 -4040.0 -4044.0 -4048.0 -4052.0 -4056.0 -4060.0 -4064.0 -4068.0 -4072.0 -4076.0 -4080.0 -4084.0 -4088.0 -4092.0 -4096.0 -4100.0 -4104.0 -4108.0 -4112.0 -4116.0 -4120.0 -4124.0 -4128.0 -4132.0 -4136.0 -4140.0 -4144.0 -4148.0 -4152.0 -4156.0 -4160.0 -4164.0 -4168.0 -4172.0 -4176.0 -4180.0 -4184.0 -4188.0 -4192.0 -4196.0 -4200.0 -4204.0 -4208.0 -4212.0 -4216.0 -4220.0 -4224.0 -4228.0 -4232.0 -4236.0 -4240.0 -4244.0 -4248.0 -4252.0 -4256.0 -4260.0 -4264.0 -4268.0 -4272.0 -4276.0 -4280.0 -4284.0 -4288.0 -4292.0 -4296.0 -4300.0 -4304.0 -4308.0 -4312.0 -4316.0 -4320.0 -4324.0 -4328.0 -4332.0 -4336.0 -4340.0 -4344.0 -4348.0 -4352.0 -4356.0 -4360.0 -4364.0 -4368.0 -4372.0 -4376.0 -4380.0 -4384.0 -4388.0 -4392.0 -4396.0 -4400.0 -4404.0 -4408.0 -4412.0 -4416.0 -4420.0 -4424.0 -4428.0 -4432.0 -4436.0 -4440.0 -4444.0 -4448.0 -4452.0 -4456.0 -4460.0 -4464.0 -4468.0 -4472.0 -4476.0 -4480.0



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 28 dB Ref 36.0 dBm  Center 470 MHz Span 120 kHz Total Power Ref 30.55 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>30.51</td><td>(-1.27)</td><td>0.0</td><td>30.51</td><td>(-1.27)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-44.69</td><td>(-7.20)</td><td>-12.20 k</td><td>-46.24</td><td>(-8.75)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.21</td><td>(-20.21)</td><td>-14.25 k</td><td>-40.27</td><td>(-20.27)</td><td>14.20 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 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	30.51	(-1.27)	0.0	30.51	(-1.27)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-44.69	(-7.20)	-12.20 k	-46.24	(-8.75)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.21	(-20.21)	-14.25 k	-40.27	(-20.27)	14.20 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	30.51	(-1.27)	0.0	30.51	(-1.27)	0.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-44.69	(-7.20)	-12.20 k	-46.24	(-8.75)	12.20 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-40.21	(-20.21)	-14.25 k	-40.27	(-20.27)	14.20 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-DNL	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz PASS Ref Offset 28 dB Ref 36.0 dBm  Center 470 MHz Span 120 kHz Total Power Ref 34.62 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>18.85</td><td>(-12.92)</td><td>0.0</td><td>21.78</td><td>(-10.00)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.64</td><td>(-3.16)</td><td>-12.20 k</td><td>-42.44</td><td>(-4.23)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.89</td><td>(-19.89)</td><td>-12.85 k</td><td>-40.70</td><td>(-20.70)</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> 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	18.85	(-12.92)	0.0	21.78	(-10.00)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.64	(-3.16)	-12.20 k	-42.44	(-4.23)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.89	(-19.89)	-12.85 k	-40.70	(-20.70)	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)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	18.85	(-12.92)	0.0	21.78	(-10.00)	250.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-40.64	(-3.16)	-12.20 k	-42.44	(-4.23)	12.30 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-39.89	(-19.89)	-12.85 k	-40.70	(-20.70)	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	—	(—)	—	—	(—)	—																																																										
TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz PASS Ref Offset 28 dB Ref 41.0 dBm  Center 400 MHz Span 120 kHz Total Power Ref 36.07 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>36.07</td><td>(-0.94)</td><td>0.0</td><td>36.07</td><td>(-0.94)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.82</td><td>(-8.84)</td><td>-12.30 k</td><td>-42.07</td><td>(-9.09)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.05</td><td>(-17.05)</td><td>-13.00 k</td><td>-36.97</td><td>(-16.97)</td><td>13.75 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	36.07	(-0.94)	0.0	36.07	(-0.94)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.82	(-8.84)	-12.30 k	-42.07	(-9.09)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.05	(-17.05)	-13.00 k	-36.97	(-16.97)	13.75 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	36.07	(-0.94)	0.0	36.07	(-0.94)	0.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-41.82	(-8.84)	-12.30 k	-42.07	(-9.09)	12.30 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-37.05	(-17.05)	-13.00 k	-36.97	(-16.97)	13.75 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										

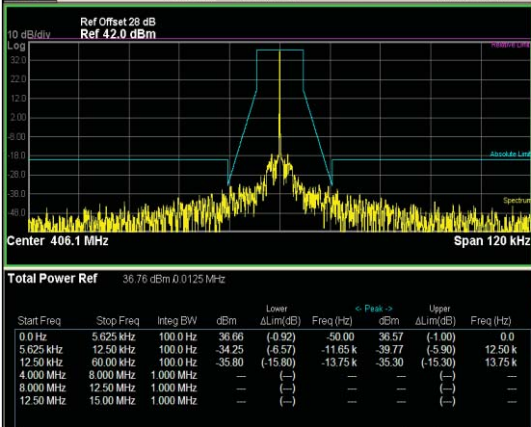
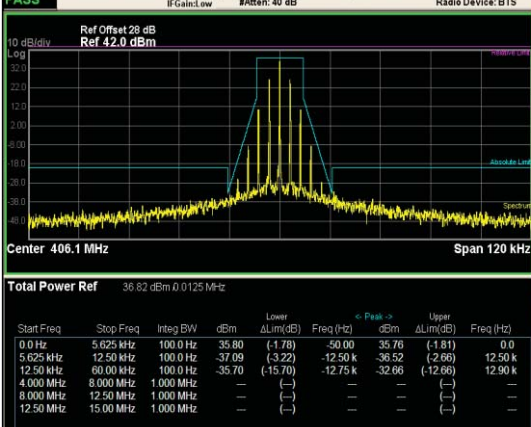
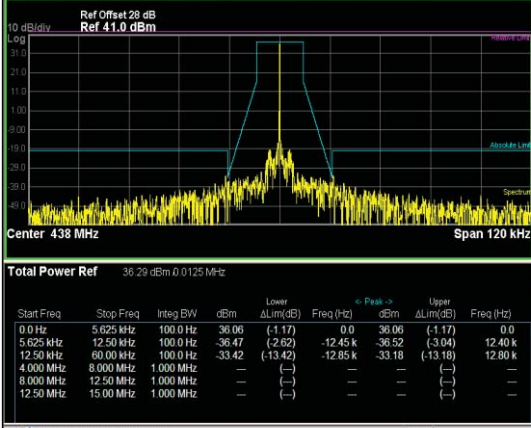


Appendix C:Emission Mask

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 Center Freq: 400.012500 MHz Trig: Free Run #Att: 40 dB Avg: 100.00% of 10 Radio Std: None Radio Device: BTS 10 dB/div Log Ref Offset 28 dB Ref 41.0 dBm Center 400 MHz Span 120 kHz Total Power Ref 36.20 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>35.20</td><td>(-1.81)</td><td>0.0</td><td>35.20</td><td>(-1.81)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.59</td><td>(-2.16)</td><td>-12.50 k</td><td>-37.45</td><td>(-5.56)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.90</td><td>(-15.90)</td><td>-16.75 k</td><td>-34.22</td><td>(-14.22)</td><td>13.20 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> File <Temp.png> saved Frequency Center Freq 400.012500 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	35.20	(-1.81)	0.0	35.20	(-1.81)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.59	(-2.16)	-12.50 k	-37.45	(-5.56)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.90	(-15.90)	-16.75 k	-34.22	(-14.22)	13.20 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	35.20	(-1.81)	0.0	35.20	(-1.81)	0.0																																																							
5.625 kHz	12.50 kHz	100.0 Hz	-36.59	(-2.16)	-12.50 k	-37.45	(-5.56)	12.15 k																																																										
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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 Center Freq: 405.987500 MHz Trig: Free Run #Att: 40 dB Avg: 100.00% of 10 Radio Std: None Radio Device: BTS 10 dB/div Log Ref Offset 28 dB Ref 42.0 dBm Center 406 MHz Span 120 kHz Total Power Ref 36.86 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>36.80</td><td>(-0.90)</td><td>-50.00</td><td>36.70</td><td>(-1.00)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.30</td><td>(-2.56)</td><td>-12.50 k</td><td>-36.66</td><td>(-3.29)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.82</td><td>(-15.82)</td><td>-13.05 k</td><td>-35.82</td><td>(-15.82)</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> File <MASK.D.state> recalled Frequency Center Freq 405.987500 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	36.80	(-0.90)	-50.00	36.70	(-1.00)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.30	(-2.56)	-12.50 k	-36.66	(-3.29)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.82	(-15.82)	-13.05 k	-35.82	(-15.82)	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	36.80	(-0.90)	-50.00	36.70	(-1.00)	0.0																																																							
5.625 kHz	12.50 kHz	100.0 Hz	-36.30	(-2.56)	-12.50 k	-36.66	(-3.29)	12.45 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-35.82	(-15.82)	-13.05 k	-35.82	(-15.82)	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-ANH	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Trig: Free Run #Att: 40 dB Avg: 100.00% of 10 Radio Std: None Radio Device: BTS 10 dB/div Log Ref Offset 28 dB Ref 42.0 dBm Center 406 MHz Span 120 kHz Total Power Ref 36.93 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>35.91</td><td>(-1.79)</td><td>-50.00</td><td>35.87</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>-35.18</td><td>(-1.44)</td><td>-12.50 k</td><td>-37.67</td><td>(-4.29)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-31.87</td><td>(-11.87)</td><td>-13.30 k</td><td>-32.88</td><td>(-12.88)</td><td>13.40 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File <Temp.png> saved Frequency Center Freq 405.987500 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	35.91	(-1.79)	-50.00	35.87	(-1.82)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.18	(-1.44)	-12.50 k	-37.67	(-4.29)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-31.87	(-11.87)	-13.30 k	-32.88	(-12.88)	13.40 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
			0.0 Hz	5.625 kHz	100.0 Hz	35.91	(-1.79)	-50.00	35.87	(-1.82)	0.0																																																							
5.625 kHz	12.50 kHz	100.0 Hz	-35.18	(-1.44)	-12.50 k	-37.67	(-4.29)	12.45 k																																																										
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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 _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz PASS Ref Offset 28 dB Ref 42.0 dBm  Center 406.1 MHz Span 120 kHz Total Power Ref 36.76 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>36.66</td><td>(-0.92)</td><td>-50.00</td><td>36.57</td><td>(1.00)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.25</td><td>(-6.57)</td><td>-11.65 k</td><td>-39.77</td><td>(-5.90)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.80</td><td>(-15.80)</td><td>-13.75 k</td><td>-35.30</td><td>(-15.30)</td><td>13.75 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> 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	36.66	(-0.92)	-50.00	36.57	(1.00)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.25	(-6.57)	-11.65 k	-39.77	(-5.90)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.80	(-15.80)	-13.75 k	-35.30	(-15.30)	13.75 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
			0.0 Hz	5.625 kHz	100.0 Hz	36.66	(-0.92)	-50.00	36.57	(1.00)	0.0																																																							
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8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANH	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz PASS Ref Offset 28 dB Ref 42.0 dBm  Center 406.1 MHz Span 120 kHz Total Power Ref 36.82 dBm/0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>35.80</td><td>(-1.78)</td><td>-50.00</td><td>35.76</td><td>(-1.81)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-37.09</td><td>(-3.22)</td><td>-12.50 k</td><td>-36.52</td><td>(-2.66)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.70</td><td>(-15.70)</td><td>-12.75 k</td><td>-32.66</td><td>(-12.66)</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> File <Temp.png> saved 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	35.80	(-1.78)	-50.00	35.76	(-1.81)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.09	(-3.22)	-12.50 k	-36.52	(-2.66)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.70	(-15.70)	-12.75 k	-32.66	(-12.66)	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	35.80	(-1.78)	-50.00	35.76	(-1.81)	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-ANH	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz PASS Ref Offset 28 dB Ref 41.0 dBm  Center 438 MHz Span 120 kHz Total Power Ref 36.29 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>(-1.17)</td><td>0.0</td><td>36.06</td><td>(-1.17)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.47</td><td>(-2.62)</td><td>-12.45 k</td><td>-36.52</td><td>(-3.04)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.42</td><td>(-13.42)</td><td>-12.85 k</td><td>-33.18</td><td>(-13.18)</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></table> File <MASK.D.state> recalled 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	36.06	(-1.17)	0.0	36.06	(-1.17)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.47	(-2.62)	-12.45 k	-36.52	(-3.04)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.42	(-13.42)	-12.85 k	-33.18	(-13.18)	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	—	(—)	—	—	(—)	—
			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	(-1.17)	0.0	36.06	(-1.17)	0.0																																																							
5.625 kHz	12.50 kHz	100.0 Hz	-36.47	(-2.62)	-12.45 k	-36.52	(-3.04)	12.40 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-33.42	(-13.42)	-12.85 k	-33.18	(-13.18)	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	—	(—)	—	—	(—)	—																																																										



Appendix C:Emission Mask

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 Trig: Free Run Radio Std: None Radio Device: BTS 10 dB/div Log Ref Offset 28 dB Ref 41.0 dBm Center 438 MHz Span 120 kHz Total Power Ref 36.37 dBm 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>35.22</td><td>(-2.00)</td><td>0.0</td><td>35.22</td><td>(-2.00)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.66</td><td>(-1.45)</td><td>-12.50 k</td><td>-34.23</td><td>(-1.47)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.90</td><td>(-14.90)</td><td>-12.80 k</td><td>-35.41</td><td>(-15.41)</td><td>13.40 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz 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	35.22	(-2.00)	0.0	35.22	(-2.00)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.66	(-1.45)	-12.50 k	-34.23	(-1.47)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.90	(-14.90)	-12.80 k	-35.41	(-15.41)	13.40 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	35.22	(-2.00)	0.0	35.22	(-2.00)	0.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-35.66	(-1.45)	-12.50 k	-34.23	(-1.47)	12.30 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-34.90	(-14.90)	-12.80 k	-35.41	(-15.41)	13.40 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Trig: Free Run Radio Std: None Radio Device: BTS 10 dB/div Log Ref Offset 28 dB Ref 41.0 dBm Center 470 MHz Span 120 kHz Total Power Ref 36.10 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>36.12</td><td>(-1.12)</td><td>-50.00</td><td>35.89</td><td>(-1.36)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.54</td><td>(-9.26)</td><td>-12.10 k</td><td>-38.65</td><td>(-10.28)</td><td>11.70 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.32</td><td>(-17.32)</td><td>-19.40 k</td><td>-36.77</td><td>(-16.77)</td><td>19.30 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></table> Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz 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	36.12	(-1.12)	-50.00	35.89	(-1.36)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.54	(-9.26)	-12.10 k	-38.65	(-10.28)	11.70 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.32	(-17.32)	-19.40 k	-36.77	(-16.77)	19.30 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	—	(—)	—	—	(—)	—
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	36.12	(-1.12)	-50.00	35.89	(-1.36)	0.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-40.54	(-9.26)	-12.10 k	-38.65	(-10.28)	11.70 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-37.32	(-17.32)	-19.40 k	-36.77	(-16.77)	19.30 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	—	(—)	—	—	(—)	—																																																										
TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Trig: Free Run Radio Std: None Radio Device: BTS 10 dB/div Log Ref Offset 28 dB Ref 41.0 dBm Center 470 MHz Span 120 kHz Total Power Ref 36.64 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>35.27</td><td>(-1.98)</td><td>0.0</td><td>35.27</td><td>(-1.98)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.14</td><td>(-1.67)</td><td>-12.40 k</td><td>-36.41</td><td>(-3.67)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.32</td><td>(-14.32)</td><td>-13.35 k</td><td>-34.72</td><td>(-14.72)</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 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	35.27	(-1.98)	0.0	35.27	(-1.98)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.14	(-1.67)	-12.40 k	-36.41	(-3.67)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.32	(-14.32)	-13.35 k	-34.72	(-14.72)	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	35.27	(-1.98)	0.0	35.27	(-1.98)	0.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-35.14	(-1.67)	-12.40 k	-36.41	(-3.67)	12.30 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-34.32	(-14.32)	-13.35 k	-34.72	(-14.72)	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	—	(—)	—	—	(—)	—																																																										



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 400.012500 MHz Ref Offset 28 dB Ref 36.0 dBm 10 dB/div Log 26.0 16.0 6.00 14.0 34.0 34.0 Center 400 MHz Span 120 kHz Total Power Ref 30.22 dBm 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak -> dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>30.27</td><td>(-1.60)</td><td>0.0</td><td>30.27</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>-43.94</td><td>(-5.09)</td><td>-12.40 k</td><td>-44.50</td><td>(-5.66)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.91</td><td>(-23.91)</td><td>-17.50 k</td><td>-42.93</td><td>(-22.93)</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 400.012500 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	30.27	(-1.60)	0.0	30.27	(-1.60)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.94	(-5.09)	-12.40 k	-44.50	(-5.66)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.91	(-23.91)	-17.50 k	-42.93	(-22.93)	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	30.27	(-1.60)	0.0	30.27	(-1.60)	0.0																																																							
5.625 kHz	12.50 kHz	100.0 Hz	-43.94	(-5.09)	-12.40 k	-44.50	(-5.66)	12.40 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-43.91	(-23.91)	-17.50 k	-42.93	(-22.93)	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-ANL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Ref Offset 28 dB Ref 36.0 dBm 10 dB/div Log 26.0 16.0 6.00 14.0 34.0 34.0 Center 400 MHz Span 120 kHz Total Power Ref 30.31 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>29.41</td><td>(-2.46)</td><td>0.0</td><td>29.41</td><td>(-2.46)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.36</td><td>(-3.06)</td><td>-12.05 k</td><td>-42.45</td><td>(-3.24)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.02</td><td>(-20.02)</td><td>-12.60 k</td><td>-40.70</td><td>(-20.70)</td><td>15.15 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz 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	29.41	(-2.46)	0.0	29.41	(-2.46)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-39.36	(-3.06)	-12.05 k	-42.45	(-3.24)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.02	(-20.02)	-12.60 k	-40.70	(-20.70)	15.15 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	29.41	(-2.46)	0.0	29.41	(-2.46)	0.0																																																							
5.625 kHz	12.50 kHz	100.0 Hz	-39.36	(-3.06)	-12.05 k	-42.45	(-3.24)	12.45 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-40.02	(-20.02)	-12.60 k	-40.70	(-20.70)	15.15 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-ANL	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Ref Offset 28 dB Ref 36.0 dBm 10 dB/div Log 26.0 16.0 6.00 14.0 34.0 34.0 Center 406 MHz Span 120 kHz Total Power Ref 31.43 dBm 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak -> dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>31.24</td><td>(-1.05)</td><td>0.0</td><td>31.24</td><td>(-1.05)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-44.60</td><td>(-7.27)</td><td>-12.25 k</td><td>-44.84</td><td>(-7.87)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.80</td><td>(-21.80)</td><td>-15.25 k</td><td>-40.96</td><td>(-20.96)</td><td>15.20 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 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	31.24	(-1.05)	0.0	31.24	(-1.05)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-44.60	(-7.27)	-12.25 k	-44.84	(-7.87)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.80	(-21.80)	-15.25 k	-40.96	(-20.96)	15.20 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	31.24	(-1.05)	0.0	31.24	(-1.05)	0.0																																																							
5.625 kHz	12.50 kHz	100.0 Hz	-44.60	(-7.27)	-12.25 k	-44.84	(-7.87)	12.20 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-41.80	(-21.80)	-15.25 k	-40.96	(-20.96)	15.20 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	—	(—)	—	—	(—)	—																																																										



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Trig: Free Run IF Gain: Low Radio Device: BTS Ref Offset 28 dB Ref 36.0 dBm 10 dB/div Log Center 406 MHz Span 120 kHz Total Power Ref 31.55 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>30.42</td><td>(-1.87)</td><td>0.0</td><td>30.42</td><td>(-1.87)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.48</td><td>(-1.33)</td><td>-12.50 k</td><td>-40.22</td><td>(-1.07)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.47</td><td>(-19.47)</td><td>-12.50 k</td><td>-38.46</td><td>(-18.46)</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> Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz 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	30.42	(-1.87)	0.0	30.42	(-1.87)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.48	(-1.33)	-12.50 k	-40.22	(-1.07)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.47	(-19.47)	-12.50 k	-38.46	(-18.46)	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	—	(—)	—	—	(—)	—
			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	30.42	(-1.87)	0.0	30.42	(-1.87)	0.0																																																							
5.625 kHz	12.50 kHz	100.0 Hz	-40.48	(-1.33)	-12.50 k	-40.22	(-1.07)	12.50 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-39.47	(-19.47)	-12.50 k	-38.46	(-18.46)	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	—	(—)	—	—	(—)	—																																																										
TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Trig: Free Run IF Gain: Low Radio Device: BTS Ref Offset 28 dB Ref 36.0 dBm 10 dB/div Log Center 406.1 MHz Span 120 kHz Total Power Ref 31.53 dBm 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>31.29</td><td>(-0.94)</td><td>0.0</td><td>31.29</td><td>(-0.94)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-49.01</td><td>(-10.89)</td><td>-12.35 k</td><td>-48.92</td><td>(-7.71)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.27</td><td>(-20.27)</td><td>-13.85 k</td><td>-40.25</td><td>(-20.25)</td><td>13.80 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> Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	31.29	(-0.94)	0.0	31.29	(-0.94)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-49.01	(-10.89)	-12.35 k	-48.92	(-7.71)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.27	(-20.27)	-13.85 k	-40.25	(-20.25)	13.80 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)																																																							
			0.0 Hz	5.625 kHz	100.0 Hz	31.29	(-0.94)	0.0	31.29	(-0.94)	0.0																																																							
5.625 kHz	12.50 kHz	100.0 Hz	-49.01	(-10.89)	-12.35 k	-48.92	(-7.71)	12.50 k																																																										
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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-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Trig: Free Run IF Gain: Low Radio Device: BTS Ref Offset 28 dB Ref 36.0 dBm 10 dB/div Log Center 406.1 MHz Span 120 kHz Total Power Ref 31.62 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>30.41</td><td>(-1.82)</td><td>-50.00</td><td>30.37</td><td>(-1.86)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.18</td><td>(-3.52)</td><td>-12.15 k</td><td>-41.43</td><td>(-3.31)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.18</td><td>(-20.18)</td><td>-12.65 k</td><td>-41.07</td><td>(-21.07)</td><td>13.15 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	30.41	(-1.82)	-50.00	30.37	(-1.86)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.18	(-3.52)	-12.15 k	-41.43	(-3.31)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.18	(-20.18)	-12.65 k	-41.07	(-21.07)	13.15 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
			0.0 Hz	5.625 kHz	100.0 Hz	30.41	(-1.82)	-50.00	30.37	(-1.86)	0.0																																																							
5.625 kHz	12.50 kHz	100.0 Hz	-40.18	(-3.52)	-12.15 k	-41.43	(-3.31)	12.35 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-40.18	(-20.18)	-12.65 k	-41.07	(-21.07)	13.15 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS PASS Ref Offset 28 dB Ref 34.0 dBm 10 dB/div Log 24.0 14.0 4.00 16.0 36.0 46.0 56.0 Center 438 MHz Span 120 kHz Total Power Ref 29.54 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>28.99</td><td>(-1.17)</td><td>0.0</td><td>28.99</td><td>(-1.17)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-44.20</td><td>(-3.29)</td><td>-12.45 k</td><td>-43.98</td><td>(-3.44)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.12</td><td>(-23.12)</td><td>-14.20 k</td><td>-43.07</td><td>(-23.07)</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> File <MASK.D.state> recalled STATUS 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	28.99	(-1.17)	0.0	28.99	(-1.17)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-44.20	(-3.29)	-12.45 k	-43.98	(-3.44)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.12	(-23.12)	-14.20 k	-43.07	(-23.07)	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	28.99	(-1.17)	0.0	28.99	(-1.17)	0.0																																																							
5.625 kHz	12.50 kHz	100.0 Hz	-44.20	(-3.29)	-12.45 k	-43.98	(-3.44)	12.40 k																																																										
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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-ANL	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS PASS Ref Offset 28 dB Ref 34.0 dBm 10 dB/div Log 24.0 14.0 4.00 16.0 36.0 46.0 56.0 Center 438 MHz Span 120 kHz Total Power Ref 29.35 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>28.08</td><td>(-2.08)</td><td>-50.00</td><td>28.08</td><td>(-2.09)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.58</td><td>(-2.03)</td><td>-12.40 k</td><td>-44.40</td><td>(-3.85)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.14</td><td>(-23.14)</td><td>-12.80 k</td><td>-41.43</td><td>(-21.43)</td><td>13.50 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 <Temp.png> saved STATUS 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	28.08	(-2.08)	-50.00	28.08	(-2.09)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.58	(-2.03)	-12.40 k	-44.40	(-3.85)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.14	(-23.14)	-12.80 k	-41.43	(-21.43)	13.50 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
			0.0 Hz	5.625 kHz	100.0 Hz	28.08	(-2.08)	-50.00	28.08	(-2.09)	0.0																																																							
5.625 kHz	12.50 kHz	100.0 Hz	-42.58	(-2.03)	-12.40 k	-44.40	(-3.85)	12.40 k																																																										
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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-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS PASS Ref Offset 28 dB Ref 36.0 dBm 10 dB/div Log 26.0 16.0 6.00 18.0 38.0 48.0 58.0 Center 470 MHz Span 120 kHz Total Power Ref 30.55 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>30.53</td><td>(-1.13)</td><td>0.0</td><td>30.53</td><td>(-1.13)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.04</td><td>(-2.99)</td><td>-12.40 k</td><td>-41.54</td><td>(-2.86)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.99</td><td>(-21.99)</td><td>-18.00 k</td><td>-43.24</td><td>(-23.24)</td><td>20.25 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 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	30.53	(-1.13)	0.0	30.53	(-1.13)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.04	(-2.99)	-12.40 k	-41.54	(-2.86)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.99	(-21.99)	-18.00 k	-43.24	(-23.24)	20.25 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	—	(—)	—	—	(—)	—
			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	30.53	(-1.13)	0.0	30.53	(-1.13)	0.0																																																							
5.625 kHz	12.50 kHz	100.0 Hz	-42.04	(-2.99)	-12.40 k	-41.54	(-2.86)	12.35 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-41.99	(-21.99)	-18.00 k	-43.24	(-23.24)	20.25 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	—	(—)	—	—	(—)	—																																																										



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None IF Gain: Low #Att: 40 dB Radio Device: BTS 10 dB/div Ref Offset 28 dB Ref 36.0 dBm Log 36.0 16.0 6.00 14.0 34.0 34.0 Center 470 MHz Span 120 kHz Total Power Ref 30.65 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 ΔLim(dB)</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>29.64</td><td>(-2.02)</td><td>0.0</td><td>29.64</td><td>(-2.02)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.34</td><td>(-2.65)</td><td>-12.35 k</td><td>-42.33</td><td>(-2.56)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.93</td><td>(-18.93)</td><td>-15.25 k</td><td>-40.10</td><td>(-20.10)</td><td>15.20 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> 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 ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	29.64	(-2.02)	0.0	29.64	(-2.02)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.34	(-2.65)	-12.35 k	-42.33	(-2.56)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.93	(-18.93)	-15.25 k	-40.10	(-20.10)	15.20 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 ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																							
0.0 Hz	5.625 kHz	100.0 Hz	29.64	(-2.02)	0.0	29.64	(-2.02)	0.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-41.34	(-2.65)	-12.35 k	-42.33	(-2.56)	12.50 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-38.93	(-18.93)	-15.25 k	-40.10	(-20.10)	15.20 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	—	(—)	—	—	(—)	—																																																										

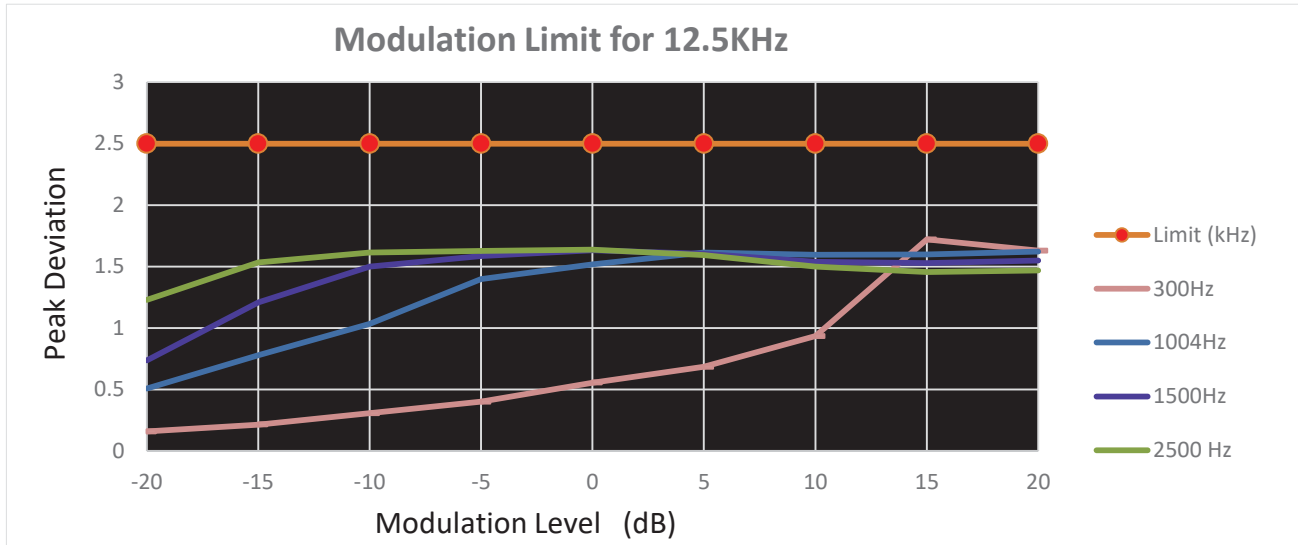
**Appendix D:Modulation Limit**

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	0.159	0.507	0.737	1.23	2.5	PASS
TX-ANH	FM	CH _{M2}	-15	0.215	0.778	1.207	1.534	2.5	PASS
TX-ANH	FM	CH _{M2}	-10	0.307	1.033	1.5	1.614	2.5	PASS
TX-ANH	FM	CH _{M2}	-5	0.401	1.399	1.585	1.627	2.5	PASS
TX-ANH	FM	CH _{M2}	0	0.555	1.517	1.632	1.638	2.5	PASS
TX-ANH	FM	CH _{M2}	5	0.685	1.615	1.603	1.592	2.5	PASS
TX-ANH	FM	CH _{M2}	10	0.934	1.595	1.538	1.499	2.5	PASS
TX-ANH	FM	CH _{M2}	15	1.72	1.599	1.527	1.454	2.5	PASS
TX-ANH	FM	CH _{M2}	20	1.629	1.623	1.55	1.469	2.5	PASS



Appendix D:Modulation Limit

TEST PLOT RESULT



**Appendix E:Aduio Frequency Response**

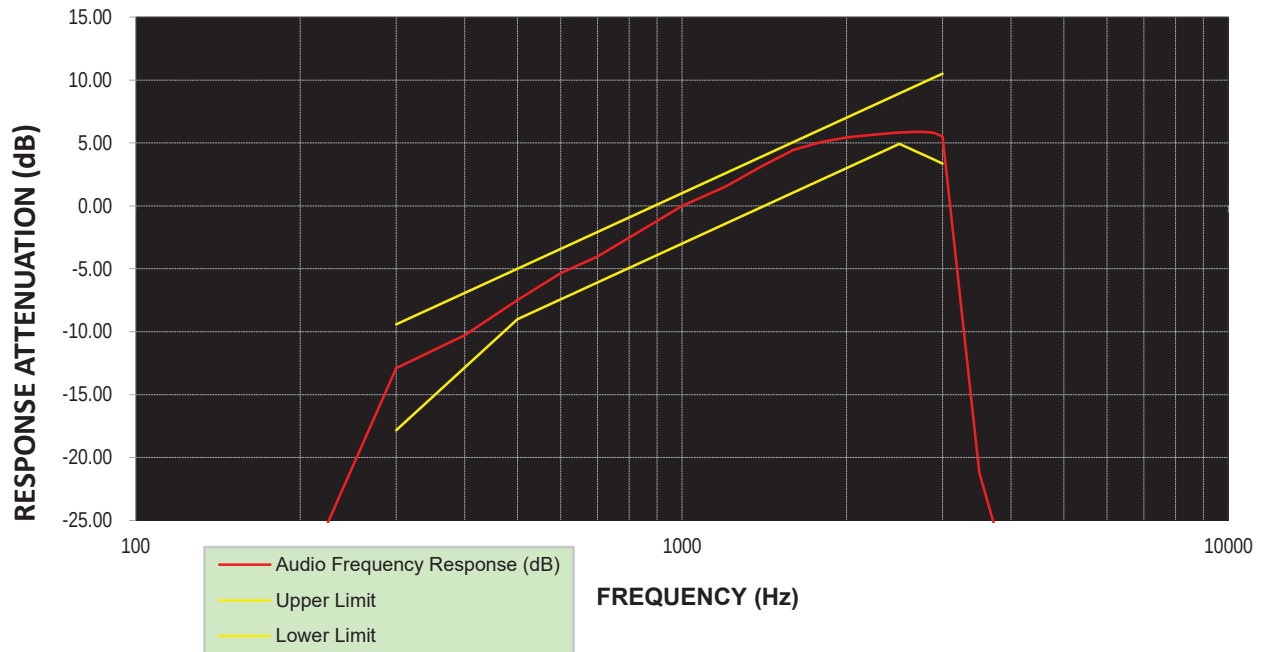
Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-ANH	FM	CH _{M2}	100	-30.00	-	-	PASS
TX-ANH	FM	CH _{M2}	200	-30.13	-	-	PASS
TX-ANH	FM	CH _{M2}	300	-12.91	-17.84	-9.42	PASS
TX-ANH	FM	CH _{M2}	400	-10.29	-12.86	-6.93	PASS
TX-ANH	FM	CH _{M2}	500	-7.48	-9.00	-5.00	PASS
TX-ANH	FM	CH _{M2}	600	-5.35	-7.42	-3.42	PASS
TX-ANH	FM	CH _{M2}	700	-4.03	-6.09	-2.09	PASS
TX-ANH	FM	CH _{M2}	800	-2.53	-4.93	-0.93	PASS
TX-ANH	FM	CH _{M2}	900	-1.19	-3.91	0.09	PASS
TX-ANH	FM	CH _{M2}	1000	0.00	-3.00	1.00	PASS
TX-ANH	FM	CH _{M2}	1200	1.52	-1.42	2.58	PASS
TX-ANH	FM	CH _{M2}	1400	3.15	-0.09	3.91	PASS
TX-ANH	FM	CH _{M2}	1600	4.45	1.07	5.07	PASS
TX-ANH	FM	CH _{M2}	1800	5.09	2.09	6.09	PASS
TX-ANH	FM	CH _{M2}	2000	5.43	3.00	7.00	PASS
TX-ANH	FM	CH _{M2}	2100	5.54	3.42	7.42	PASS
TX-ANH	FM	CH _{M2}	2200	5.63	3.83	7.83	PASS
TX-ANH	FM	CH _{M2}	2300	5.71	4.21	8.21	PASS
TX-ANH	FM	CH _{M2}	2400	5.77	4.58	8.58	PASS
TX-ANH	FM	CH _{M2}	2500	5.83	4.93	8.93	PASS
TX-ANH	FM	CH _{M2}	2600	5.88	4.59	9.27	PASS
TX-ANH	FM	CH _{M2}	2700	5.91	4.27	9.60	PASS
TX-ANH	FM	CH _{M2}	2800	5.87	3.95	9.91	PASS
TX-ANH	FM	CH _{M2}	2900	5.78	3.65	10.22	PASS
TX-ANH	FM	CH _{M2}	3000	5.52	3.35	10.51	PASS
TX-ANH	FM	CH _{M2}	3500	-21.22	-	-	PASS
TX-ANH	FM	CH _{M2}	4000	-30.05	-	-	PASS
TX-ANH	FM	CH _{M2}	4500	-30.03	-	-	PASS
TX-ANH	FM	CH _{M2}	5000	-29.56	-	-	PASS



Appendix E:Aduio Frequency Response

TEST PLOT RESULT

Aduio Freqeuncy Response For 12.5kHz



Note: The highest audio frequency response at 3kHz<3.125kHz, so meet the requirement.

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

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)					Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _{M1}	CH _{M2}	CH _{M3}	CH _H		
TX-DNH	4FSK	V _N	-30	0.059	0.059	0.073	0.042	-0.022	±5.0	PASS
TX-DNH	4FSK	V _N	-20	0.059	0.062	0.071	0.040	-0.024	±5.0	PASS
TX-DNH	4FSK	V _N	-10	0.055	0.061	0.068	0.039	-0.024	±5.0	PASS
TX-DNH	4FSK	V _N	0	0.056	0.063	0.071	0.041	-0.023	±5.0	PASS
TX-DNH	4FSK	V _N	10	0.057	0.063	0.070	0.040	-0.024	±5.0	PASS
TX-DNH	4FSK	V _N	20	0.055	0.058	0.067	0.038	-0.022	±5.0	PASS
TX-DNH	4FSK	V _N	30	0.056	0.060	0.072	0.040	-0.022	±5.0	PASS
TX-DNH	4FSK	V _N	40	0.057	0.064	0.074	0.040	-0.022	±5.0	PASS
TX-DNH	4FSK	V _N	55	0.058	0.062	0.072	0.041	-0.023	±5.0	PASS
TX-DNL	4FSK	V _N	-30	0.062	<u>0.101</u>	0.066	0.008	-0.043	±5.0	PASS
TX-DNL	4FSK	V _N	-20	0.065	0.093	0.065	0.007	-0.041	±5.0	PASS
TX-DNL	4FSK	V _N	-10	0.062	0.095	0.069	0.007	-0.043	±5.0	PASS
TX-DNL	4FSK	V _N	0	0.059	0.096	0.070	0.008	-0.041	±5.0	PASS
TX-DNL	4FSK	V _N	10	0.062	0.101	0.067	0.007	-0.044	±5.0	PASS
TX-DNL	4FSK	V _N	20	0.059	0.093	0.065	0.007	-0.040	±5.0	PASS
TX-DNL	4FSK	V _N	30	0.063	0.101	0.069	0.007	-0.042	±5.0	PASS
TX-DNL	4FSK	V _N	40	0.062	0.093	0.068	0.008	-0.042	±5.0	PASS
TX-DNL	4FSK	V _N	55	0.062	0.096	0.069	0.007	-0.041	±5.0	PASS
TX-ANH	FM	V _N	-30	0.189	0.095	0.108	0.098	0.152	±5.0	PASS
TX-ANH	FM	V _N	-20	0.184	0.092	0.106	0.099	0.161	±5.0	PASS
TX-ANH	FM	V _N	-10	<u>0.195</u>	0.088	0.113	0.095	0.158	±5.0	PASS
TX-ANH	FM	V _N	0	0.183	0.090	0.104	0.092	0.153	±5.0	PASS
TX-ANH	FM	V _N	10	0.181	0.092	0.105	0.095	0.158	±5.0	PASS
TX-ANH	FM	V _N	20	0.178	0.088	0.103	0.091	0.150	±5.0	PASS
TX-ANH	FM	V _N	30	0.186	0.090	0.107	0.093	0.160	±5.0	PASS
TX-ANH	FM	V _N	40	0.182	0.095	0.106	0.099	0.152	±5.0	PASS
TX-ANH	FM	V _N	55	0.192	0.094	0.107	0.097	0.158	±5.0	PASS
TX-ANL	FM	V _N	-30	0.147	0.073	0.071	0.069	0.087	±5.0	PASS
TX-ANL	FM	V _N	-20	0.143	0.075	0.074	0.066	0.086	±5.0	PASS
TX-ANL	FM	V _N	-10	0.138	0.069	0.074	0.065	0.083	±5.0	PASS
TX-ANL	FM	V _N	0	0.145	0.072	0.073	0.067	0.083	±5.0	PASS
TX-ANL	FM	V _N	10	0.145	0.068	0.071	0.066	0.090	±5.0	PASS
TX-ANL	FM	V _N	20	0.136	0.068	0.069	0.064	0.082	±5.0	PASS
TX-ANL	FM	V _N	30	0.137	0.069	0.074	0.064	0.086	±5.0	PASS
TX-ANL	FM	V _N	40	0.148	0.074	0.075	0.070	0.086	±5.0	PASS
TX-ANL	FM	V _N	55	0.147	0.070	0.070	0.064	0.083	±5.0	PASS

**Appendix G:Frequency Stability Test & Voltage**

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)					Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _{M1}	CH _{M2}	CH _{M3}	CH _H		
TX-DNH	4FSK	V _N	T _N	0.055	0.058	0.067	0.038	-0.022	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	0.055	0.059	0.067	0.038	-0.022	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	0.056	0.059	<u>0.068</u>	0.039	-0.023	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	0.059	0.093	0.065	0.007	-0.040	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	0.060	0.095	0.066	0.007	-0.040	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	0.062	0.094	0.068	0.007	-0.041	±5.0	PASS
TX-ANH	FM	V _N	T _N	0.178	0.088	0.103	0.091	0.150	±5.0	PASS
TX-ANH	FM	V _L	T _N	0.179	0.089	0.105	0.091	0.150	±5.0	PASS
TX-ANH	FM	V _H	T _N	<u>0.183</u>	0.091	0.104	0.093	0.155	±5.0	PASS
TX-ANL	FM	V _N	T _N	0.136	0.068	0.069	0.064	0.082	±5.0	PASS
TX-ANL	FM	V _L	T _N	0.139	0.068	0.070	0.065	0.083	±5.0	PASS
TX-ANL	FM	V _H	T _N	0.141	0.071	0.070	0.065	0.086	±5.0	PASS



Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT												
TX-DNH	4FSK	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 38.00 dBm Offset 21.00 dB Att 27 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG:IFPX (17MHz) YIG Bypass 1 FM Time Domain CF 406.1125 MHz1001 pts10.0 ms/ 4 Result Summary <table><tr><th></th><th>Carrier Power</th><th>Carrier Offset</th><th>Mod. Freq.</th><th>SINAD</th><th>THD</th></tr><tr><td>FM</td><td>29.72 dBm</td><td>68.42 Hz</td><td>25.97 kHz, 23.991 kHz, 24.981 kHz, 2.8594 kHz</td><td>---</td><td>---</td></tr></table> Analog Demod: Waiting for Trigger...Measuring...20.06.2019 11:01:13 Date: 20 JUN 2019 11:01:12 OFF~ON		Carrier Power	Carrier Offset	Mod. Freq.	SINAD	THD	FM	29.72 dBm	68.42 Hz	25.97 kHz, 23.991 kHz, 24.981 kHz, 2.8594 kHz	---	---
	Carrier Power	Carrier Offset	Mod. Freq.	SINAD	THD										
FM	29.72 dBm	68.42 Hz	25.97 kHz, 23.991 kHz, 24.981 kHz, 2.8594 kHz	---	---										
TX-DNH	4FSK	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 38.00 dBm Offset 21.00 dB Att 27 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG:IFPX (17MHz) YIG Bypass 1 FM Time Domain CF 406.1125 MHz1001 pts10.0 ms/ 4 Result Summary <table><tr><th></th><th>Carrier Power</th><th>Carrier Offset</th><th>Mod. Freq.</th><th>SINAD</th><th>THD</th></tr><tr><td>FM</td><td>29.65 dBm</td><td>68.24 Hz</td><td>25.787 kHz, 15.704 kHz, 20.746 kHz, 2.8825 kHz</td><td>---</td><td>---</td></tr></table> Analog Demod: Waiting for Trigger...Measuring...20.06.2019 11:02:29 Date: 20 JUN 2019 11:02:29 ON-OFF		Carrier Power	Carrier Offset	Mod. Freq.	SINAD	THD	FM	29.65 dBm	68.24 Hz	25.787 kHz, 15.704 kHz, 20.746 kHz, 2.8825 kHz	---	---
	Carrier Power	Carrier Offset	Mod. Freq.	SINAD	THD										
FM	29.65 dBm	68.24 Hz	25.787 kHz, 15.704 kHz, 20.746 kHz, 2.8825 kHz	---	---										
TX-ANH	FM	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 38.00 dBm Offset 21.00 dB Att 27 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG:IFPX (17MHz) YIG Bypass 1 FM Time Domain CF 406.1125 MHz1001 pts10.0 ms/ 4 Result Summary <table><tr><th></th><th>Carrier Power</th><th>Carrier Offset</th><th>Mod. Freq.</th><th>SINAD</th><th>THD</th></tr><tr><td>FM</td><td>29.67 dBm</td><td>55.79 Hz</td><td>28.913 kHz, 12.404 kHz, 20.659 kHz, 2.8191 kHz</td><td>---</td><td>---</td></tr></table> Analog Demod: Waiting for Trigger...Measuring...20.06.2019 11:08:44 Date: 20 JUN 2019 11:08:44 OFF~ON		Carrier Power	Carrier Offset	Mod. Freq.	SINAD	THD	FM	29.67 dBm	55.79 Hz	28.913 kHz, 12.404 kHz, 20.659 kHz, 2.8191 kHz	---	---
	Carrier Power	Carrier Offset	Mod. Freq.	SINAD	THD										
FM	29.67 dBm	55.79 Hz	28.913 kHz, 12.404 kHz, 20.659 kHz, 2.8191 kHz	---	---										

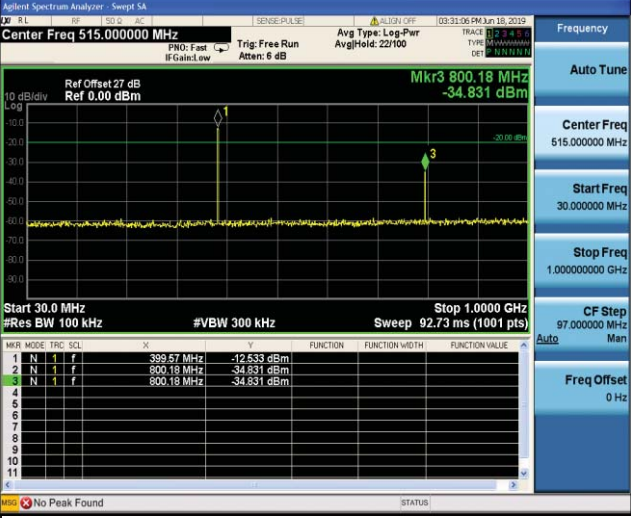
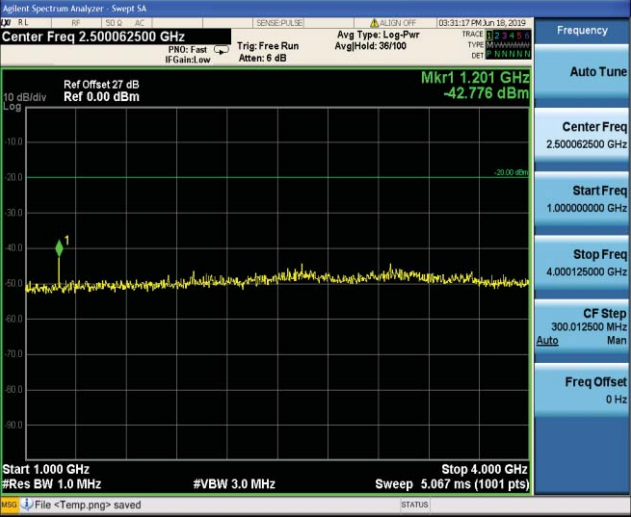
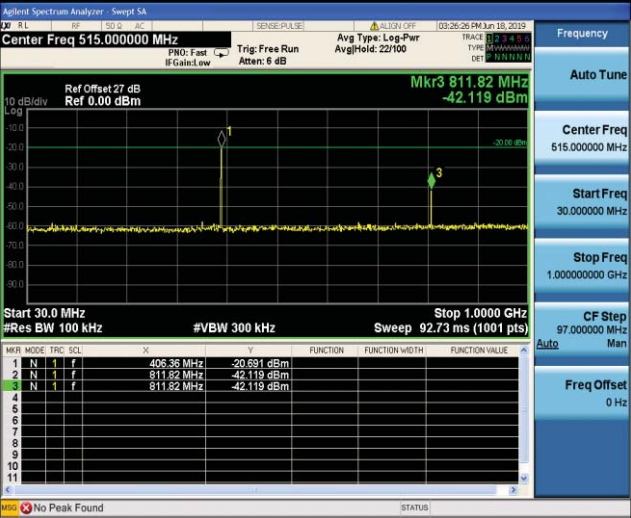


Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																				
TX-ANH	FM	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 38.00 dBm Offset 21.00 dB Att 27 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG JFSX (170MHz) VSG Bypass 1 FM Time Domain 12.5 kHz 9.375 kHz 6.25 kHz 3.125 kHz 0 kHz -3.125 kHz -6.25 kHz -9.375 kHz -12.5 kHz CF 406.1125 MHz 1001 pts 10.0 ms 4 Result Summary <table><tr><th></th><th>+Peak</th><th>Carrier Power</th><th>-Peak</th><th>+Peak/2</th><th>RMS</th><th>Carrier Offset</th><th>Mod. Freq.</th><th>SINAD</th><th>THD</th></tr><tr><td>FM</td><td>24.717 kHz</td><td>29.65 dBm</td><td>-21.219 kHz</td><td>22.968 kHz</td><td>2.8319 kHz</td><td>69.09 Hz</td><td>---</td><td>---</td><td>---</td></tr></table> Analog Demod: Waiting for Trigger... Measuring... 20.06.2019 11:08:02 Date: 20.JUN.2019 11:08:02 ON-OFF		+Peak	Carrier Power	-Peak	+Peak/2	RMS	Carrier Offset	Mod. Freq.	SINAD	THD	FM	24.717 kHz	29.65 dBm	-21.219 kHz	22.968 kHz	2.8319 kHz	69.09 Hz	---	---	---
	+Peak	Carrier Power	-Peak	+Peak/2	RMS	Carrier Offset	Mod. Freq.	SINAD	THD														
FM	24.717 kHz	29.65 dBm	-21.219 kHz	22.968 kHz	2.8319 kHz	69.09 Hz	---	---	---														



Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	 30MHz~1GHz
TX-DNH	4FSK	CH _L	 1GHz~10th Harmonic
TX-DNH	4FSK	CH _{M1}	 30MHz~1GHz

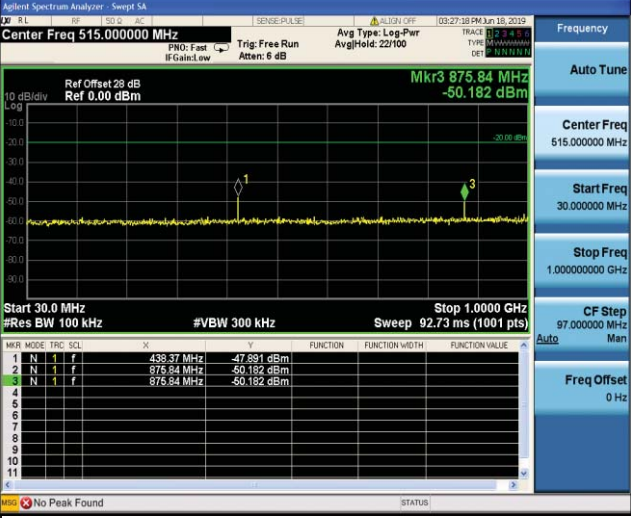
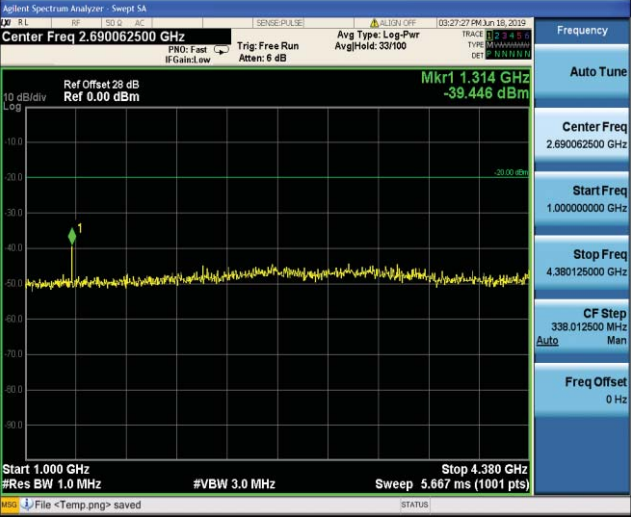
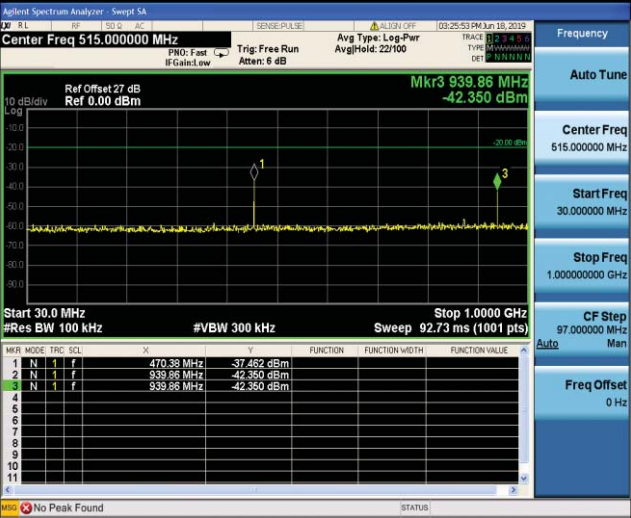


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																								
TX-DNH	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Sweep SA Center Freq 2.529937500 GHz Ref Offset 27 dB Ref 0.00 dBm Mkr1 3.656 GHz -42.639 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 4.060 GHz Sweep 5.133 ms (1001 pts) File <Temp.png> saved STATUS Frequency Auto Tune Center Freq 2.529937500 GHz Start Freq 1.000000000 GHz Stop Freq 4.059875000 GHz CF Step 305.987500 MHz Auto Man Freq Offset 0 Hz 1GHz~10th Harmonic																																								
TX-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Sweep SA Center Freq 515.000000 MHz Ref Offset 27 dB Ref 0.00 dBm Mkr3 811.82 MHz -42.028 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.000 GHz Sweep 92.73 ms (1001 pts) No Peak Found STATUS Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Auto Man Freq Offset 0 Hz <table><tr><th>Mkr</th><th>Mode</th><th>TRG</th><th>SCL</th><th>F</th><th>F</th><th>Power</th><th>Function</th><th>Function Width</th><th>Function Value</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td></td><td></td><td>-20.528 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td></td><td></td><td>-42.028 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td></td><td></td><td>-42.028 dBm</td><td></td><td></td><td></td></tr></table> 30MHz~1GHz	Mkr	Mode	TRG	SCL	F	F	Power	Function	Function Width	Function Value	1	N	1	f			-20.528 dBm				2	N	1	f			-42.028 dBm				3	N	1	f			-42.028 dBm			
Mkr	Mode	TRG	SCL	F	F	Power	Function	Function Width	Function Value																																		
1	N	1	f			-20.528 dBm																																					
2	N	1	f			-42.028 dBm																																					
3	N	1	f			-42.028 dBm																																					
TX-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Sweep SA Center Freq 2.530562500 GHz Ref Offset 27 dB Ref 0.00 dBm Mkr1 1.220 GHz -42.865 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 4.061 GHz Sweep 5.133 ms (1001 pts) File <Temp.png> saved STATUS Frequency Auto Tune Center Freq 2.530562500 GHz Start Freq 1.000000000 GHz Stop Freq 4.061125000 GHz CF Step 306.112500 MHz Auto Man Freq Offset 0 Hz 1GHz~10th Harmonic																																								

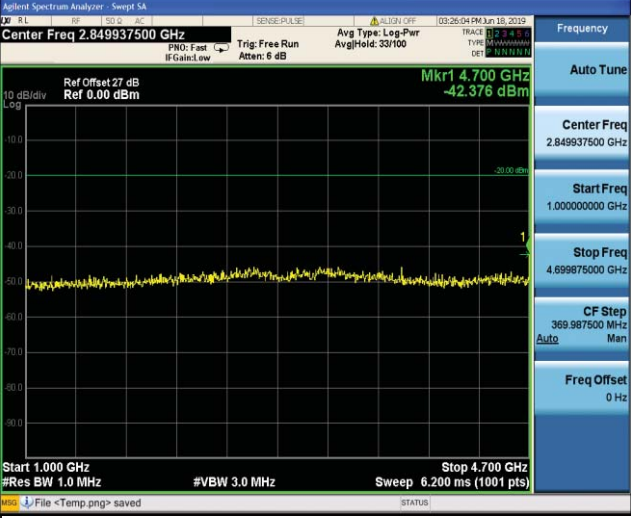
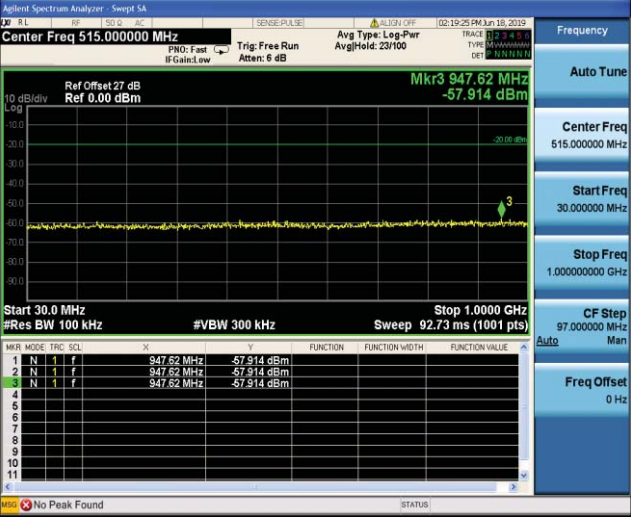


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M3}	 Agilent Spectrum Analyzer - Sweep SA Center Freq 515.000000 MHz Ref Offset 28 dB Ref 0.00 dBm Mkr3 875.84 MHz -50.182 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.000 GHz Sweep 92.73 ms (1001 pts) Mkr1 438.37 MHz -47.891 dBm Mkr2 875.84 MHz -50.182 dBm Mkr3 875.84 MHz -50.182 dBm No Peak Found 30MHz~1GHz
TX-DNH	4FSK	CH _{M3}	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.690062500 GHz Ref Offset 28 dB Ref 0.00 dBm Mkr1 1.314 GHz -39.446 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 4.380 GHz Sweep 5.667 ms (1001 pts) File <Temp.png> saved 1GHz~10th Harmonic
TX-DNH	4FSK	CH _H	 Agilent Spectrum Analyzer - Sweep SA Center Freq 515.000000 MHz Ref Offset 27 dB Ref 0.00 dBm Mkr3 939.86 MHz -42.350 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.000 GHz Sweep 92.73 ms (1001 pts) Mkr1 470.38 MHz -37.452 dBm Mkr2 939.86 MHz -42.350 dBm Mkr3 939.86 MHz -42.350 dBm No Peak Found 30MHz~1GHz

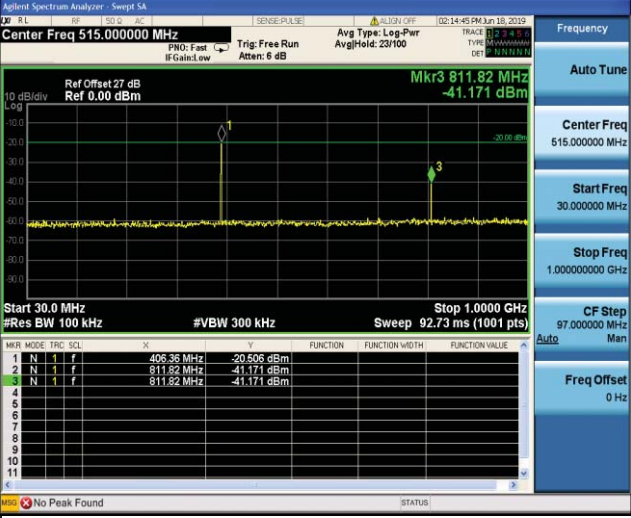
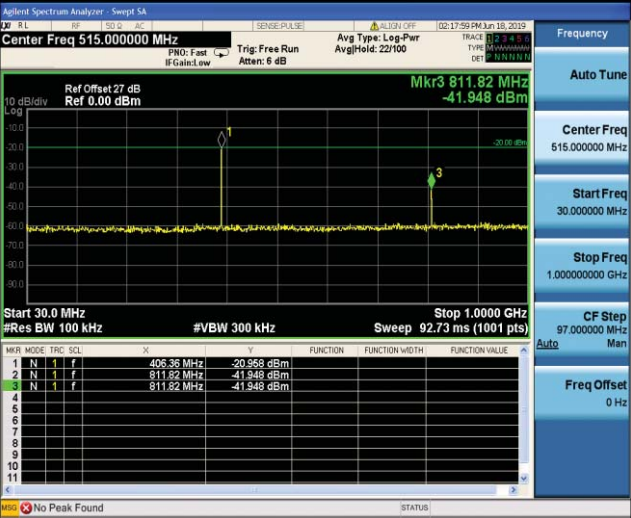


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _H	 1GHz~10th Harmonic
TX-ANH	FM	CH _L	 30MHz~1GHz
TX-ANH	FM	CH _L	 1GHz~10th Harmonic



Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _{M1}	 30MHz~1GHz
TX-ANH	FM	CH _{M1}	 1GHz~10th Harmonic
TX-ANH	FM	CH _{M2}	 30MHz~1GHz

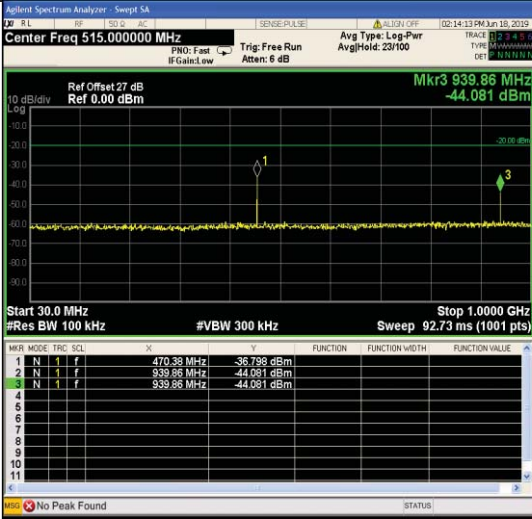
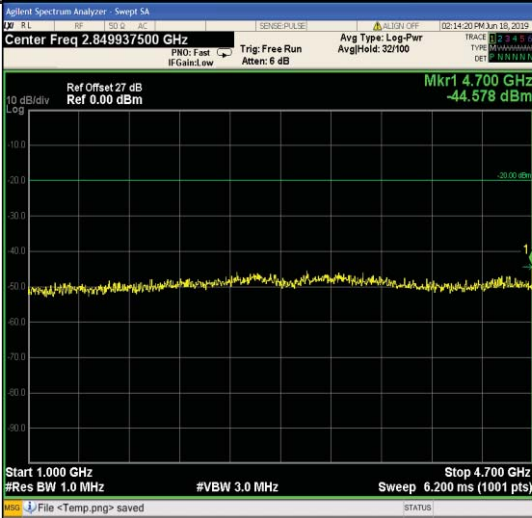


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _{M2}	Agilent Spectrum Analyzer - Sweep SA Center Freq 2.530562500 GHz Ref Offset 27 dB Ref 0.00 dBm Mkr1 3.654 GHz -42.688 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.133 ms (1001 pts) File <Temp.png> saved Frequency Auto Tune Center Freq 2.530562500 GHz Start Freq 1.000000000 GHz Stop Freq 4.061125000 GHz CF Step 306.112500 MHz Auto Man Freq Offset 0 Hz 1GHz~10th Harmonic
TX-ANH	FM	CH _{M3}	Agilent Spectrum Analyzer - Sweep SA Center Freq 515.0000000 MHz Ref Offset 28 dB Ref 0.00 dBm Mkr3 875.84 MHz -50.768 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts) No Peak Found Frequency Auto Tune Center Freq 515.0000000 MHz Start Freq 30.0000000 MHz Stop Freq 1.000000000 GHz CF Step 97.0000000 MHz Auto Man Freq Offset 0 Hz 30MHz~1GHz
TX-ANH	FM	CH _{M3}	Agilent Spectrum Analyzer - Sweep SA Center Freq 2.690062500 GHz Ref Offset 28 dB Ref 0.00 dBm Mkr1 1.314 GHz -40.181 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.667 ms (1001 pts) File <Temp.png> saved Frequency Auto Tune Center Freq 2.690062500 GHz Start Freq 1.000000000 GHz Stop Freq 4.380125000 GHz CF Step 338.012500 MHz Auto Man Freq Offset 0 Hz 1GHz~10th Harmonic



Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT							
TX-ANH	FM	CH _H	<table><tr><th>Mk</th><th>Freq (MHz)</th><th>Power (dBm)</th></tr><tr><td>Mkr3</td><td>939.86</td><td>-44.081</td></tr></table> 30MHz~1GHz	Mk	Freq (MHz)	Power (dBm)	Mkr3	939.86	-44.081	Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.00000000 GHz CF Step 97.000000 MHz Auto Man Freq Offset 0 Hz
			Mk	Freq (MHz)	Power (dBm)					
Mkr3	939.86	-44.081								
<table><tr><th>Mk</th><th>Freq (GHz)</th><th>Power (dBm)</th></tr><tr><td>Mkr1</td><td>4.700</td><td>-44.578</td></tr></table> 1GHz~10th Harmonic	Mk	Freq (GHz)	Power (dBm)	Mkr1	4.700	-44.578	Frequency Auto Tune Center Freq 2.849937500 GHz Start Freq 1.00000000 GHz Stop Freq 4.699875000 GHz CF Step 369.987500 MHz Auto Man Freq Offset 0 Hz			
Mk	Freq (GHz)	Power (dBm)								
Mkr1	4.700	-44.578								

----End of Report----