

Project No.	SHT2111082706EW		
Test sample No.	YPHT21110827020	Model No.	A520T
Start test date	2022/6/16	Finish date	2022/7/4
Temperature	24.2°C	Humidity	50%
Test Engineer	<i>Casper Chen</i>	Auditor	<i>Xiaodong Zhu</i>

Appendix clause	Test Item	Test Result (PASS/FAIL)
A	Maximum Transmitter Power	PASS
B	Occupied Bandwidth	PASS
C	Emission Mask	PASS
D	Modulation Limit	PASS
E	Audio Frequency Response	PASS
F	Frequency Stability Test & Temperature	PASS
G	Frequency Stability Test & Voltage	PASS
H	Transmitter Frequency Behavior	PASS
I	Spurious Emission On Antenna Port	PASS

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	35.9	3.89	4.50	-13.6	±20	PASS
TX-DNH	4FSK	CH _{M1}	36.1	4.07	4.50	-9.6	±20	PASS
TX-DNH	4FSK	CH _{M2}	36.1	4.07	4.50	-9.6	±20	PASS
TX-DNH	4FSK	CH _{M3}	35.9	3.89	4.50	-13.6	±20	PASS
TX-DNH	4FSK	CH _H	35.6	3.63	4.50	-19.3	±20	PASS
TX-DNL	4FSK	CH _L	31.2	1.32	1.50	-12.0	±20	PASS
TX-DNL	4FSK	CH _{M1}	31.6	1.45	1.50	-3.3	±20	PASS
TX-DNL	4FSK	CH _{M2}	31.6	1.45	1.50	-3.3	±20	PASS
TX-DNL	4FSK	CH _{M3}	31.7	1.48	1.50	-1.3	±20	PASS
TX-DNL	4FSK	CH _H	31.4	1.38	1.50	-8.0	±20	PASS
TX-ANH	FM	CH _L	36.1	4.07	4.50	-9.6	±20	PASS
TX-ANH	FM	CH _{M1}	36.3	4.27	4.50	-5.1	±20	PASS
TX-ANH	FM	CH _{M2}	36.4	4.37	4.50	-2.9	±20	PASS
TX-ANH	FM	CH _{M3}	36.2	4.17	4.50	-7.3	±20	PASS
TX-ANH	FM	CH _H	35.6	3.63	4.50	-19.3	±20	PASS
TX-ANL	FM	CH _L	31.8	1.51	1.50	0.7	±20	PASS
TX-ANL	FM	CH _{M1}	32.2	1.66	1.50	10.7	±20	PASS
TX-ANL	FM	CH _{M2}	32.2	1.66	1.50	10.7	±20	PASS
TX-ANL	FM	CH _{M3}	32.0	1.58	1.50	5.3	±20	PASS
TX-ANL	FM	CH _H	31.8	1.51	1.50	0.7	±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	7.537	9.456	≤ 11.25	PASS
TX-DNH	4FSK	CH _{M1}	7.505	9.513	≤ 11.25	PASS
TX-DNH	4FSK	CH _{M2}	7.445	9.633	≤ 11.25	PASS
TX-DNH	4FSK	CH _{M3}	7.784	9.685	≤ 11.25	PASS
TX-DNH	4FSK	CH _H	7.392	9.639	≤ 11.25	PASS
TX-DNL	4FSK	CH _L	7.629	10.060	≤ 11.25	PASS
TX-DNL	4FSK	CH _{M1}	7.591	9.809	≤ 11.25	PASS
TX-DNL	4FSK	CH _{M2}	7.691	9.436	≤ 11.25	PASS
TX-DNL	4FSK	CH _{M3}	7.718	9.980	≤ 11.25	PASS
TX-DNL	4FSK	CH _H	7.686	9.827	≤ 11.25	PASS
TX-ANH	FM	CH _L	5.174	10.030	≤ 11.25	PASS
TX-ANH	FM	CH _{M1}	5.177	10.050	≤ 11.25	PASS
TX-ANH	FM	CH _{M2}	5.177	10.050	≤ 11.25	PASS
TX-ANH	FM	CH _{M3}	5.176	10.040	≤ 11.25	PASS
TX-ANH	FM	CH _H	5.171	7.650	≤ 11.25	PASS
TX-ANL	FM	CH _L	5.174	10.070	≤ 11.25	PASS
TX-ANL	FM	CH _{M1}	5.177	10.050	≤ 11.25	PASS
TX-ANL	FM	CH _{M2}	5.177	10.050	≤ 11.25	PASS
TX-ANL	FM	CH _{M3}	5.176	10.040	≤ 11.25	PASS
TX-ANL	FM	CH _H	5.171	7.649	≤ 11.25	PASS

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None</p> <p>Trig: Free Run AvgHold: >10/10</p> <p>#FGain: Low #Atten: 30 dB Radio Device: BTS</p> <p>10 dB/div Ref 41.31 dBm</p> <p>Center 400 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 43.8 dBm</p> <p>7.537 kHz</p> <p>Transmit Freq Error -42 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.456 kHz x dB -26.00 dB</p> <p>Frequency: 400.012500 MHz</p> <p>Center Freq: 400.012500 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p>
TX-DNH	4FSK	CH _{M1}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None</p> <p>Trig: Free Run AvgHold: >10/10</p> <p>#FGain: Low #Atten: 30 dB Radio Device: BTS</p> <p>10 dB/div Ref 41.30 dBm</p> <p>Center 406 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 44.4 dBm</p> <p>7.505 kHz</p> <p>Transmit Freq Error -84 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.513 kHz x dB -26.00 dB</p> <p>Frequency: 405.987500 MHz</p> <p>Center Freq: 405.987500 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p>
TX-DNH	4FSK	CH _{M2}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Radio Std: None</p> <p>Trig: Free Run AvgHold: >10/10</p> <p>#FGain: Low #Atten: 30 dB Radio Device: BTS</p> <p>10 dB/div Ref 41.27 dBm</p> <p>Center 406.1 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 44.0 dBm</p> <p>7.445 kHz</p> <p>Transmit Freq Error -34 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.633 kHz x dB -26.00 dB</p> <p>Frequency: 406.112500 MHz</p> <p>Center Freq: 406.112500 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p>

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M3}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Radio Std: None</p> <p>Trig: Free Run Avg/Hold: >10/10</p> <p>#FGain: Low #Atten: 30 dB Radio Device: BTS</p> <p>10 dB/div Ref 40.99 dBm</p> <p>Center 438 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 44.2 dBm</p> <p>7.784 kHz</p> <p>Transmit Freq Error -22 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.685 kHz x dB -26.00 dB</p> <p>Frequency: 438.012500 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p>
TX-DNH	4FSK	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 479.987500 MHz Center Freq: 479.987500 MHz Radio Std: None</p> <p>Trig: Free Run Avg/Hold: >10/10</p> <p>#FGain: Low #Atten: 30 dB Radio Device: BTS</p> <p>10 dB/div Ref 40.33 dBm</p> <p>Center 480 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 43.7 dBm</p> <p>7.392 kHz</p> <p>Transmit Freq Error -178 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.639 kHz x dB -26.00 dB</p> <p>Frequency: 479.987500 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p>
TX-DNL	4FSK	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None</p> <p>Trig: Free Run Avg/Hold: >10/10</p> <p>#FGain: Low #Atten: 28 dB Radio Device: BTS</p> <p>10 dB/div Ref 39.81 dBm</p> <p>Center 400 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 39.1 dBm</p> <p>7.629 kHz</p> <p>Transmit Freq Error -91 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 10.06 kHz x dB -26.00 dB</p> <p>Frequency: 400.012500 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p>

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _{M1}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 405.987500 MHz</p> <p>Ref 40.32 dBm</p> <p>Occupied Bandwidth: 7.591 kHz</p> <p>Total Power: 39.9 dBm</p> <p>Transmit Freq Error: -31 Hz</p> <p>x dB Bandwidth: 9.809 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB: -26.00 dB</p>
TX-DNL	4FSK	CH _{M2}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 406.112500 MHz</p> <p>Ref 40.31 dBm</p> <p>Occupied Bandwidth: 7.691 kHz</p> <p>Total Power: 39.8 dBm</p> <p>Transmit Freq Error: -122 Hz</p> <p>x dB Bandwidth: 9.436 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB: -26.00 dB</p>
TX-DNL	4FSK	CH _{M3}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 438.012500 MHz</p> <p>Ref 39.14 dBm</p> <p>Occupied Bandwidth: 7.718 kHz</p> <p>Total Power: 40.0 dBm</p> <p>Transmit Freq Error: -124 Hz</p> <p>x dB Bandwidth: 9.980 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB: -26.00 dB</p>

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 479.987500 MHz</p> <p>Occupied Bandwidth: 7.686 kHz</p> <p>Total Power: 39.8 dBm</p> <p>Transmit Freq Error: -51 Hz</p> <p>x dB Bandwidth: 9.827 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB: -26.00 dB</p>
TX-ANH	FM	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 400.012500 MHz</p> <p>Occupied Bandwidth: 5.174 kHz</p> <p>Total Power: 36.9 dBm</p> <p>Transmit Freq Error: -17 Hz</p> <p>x dB Bandwidth: 10.03 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB: -26.00 dB</p>
TX-ANH	FM	CH _{M1}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 405.987500 MHz</p> <p>Occupied Bandwidth: 5.177 kHz</p> <p>Total Power: 37.2 dBm</p> <p>Transmit Freq Error: -19 Hz</p> <p>x dB Bandwidth: 10.05 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB: -26.00 dB</p>

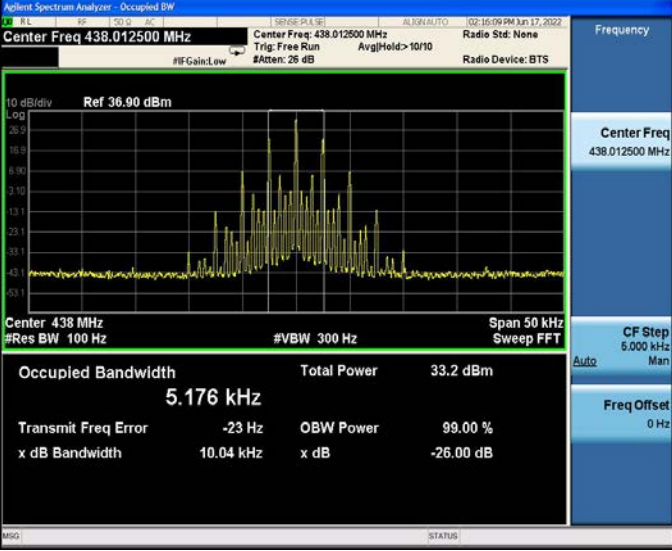
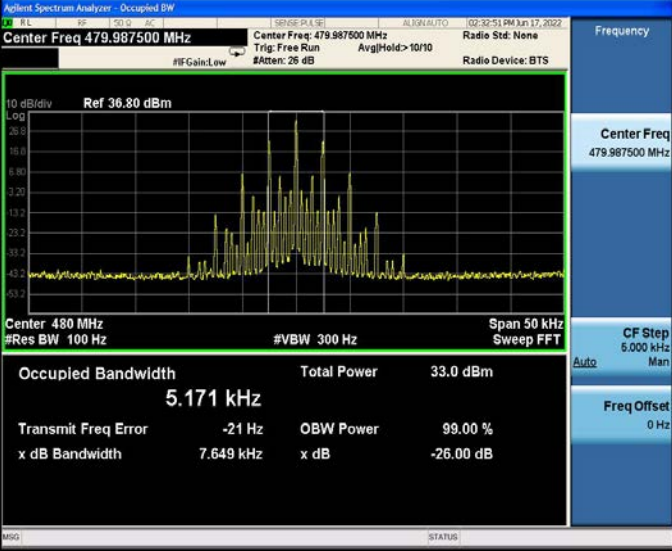
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _{M2}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 406.112500 MHz</p> <p>Ref 40.96 dBm</p> <p>Occupied Bandwidth 5.177 kHz</p> <p>Total Power 37.3 dBm</p> <p>Transmit Freq Error -22 Hz</p> <p>x dB Bandwidth 10.05 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB -26.00 dB</p>
TX-ANH	FM	CH _{M3}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 438.012500 MHz</p> <p>Ref 40.89 dBm</p> <p>Occupied Bandwidth 5.176 kHz</p> <p>Total Power 37.2 dBm</p> <p>Transmit Freq Error -22 Hz</p> <p>x dB Bandwidth 10.04 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB -26.00 dB</p>
TX-ANH	FM	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 479.987500 MHz</p> <p>Ref 40.27 dBm</p> <p>Occupied Bandwidth 5.171 kHz</p> <p>Total Power 36.6 dBm</p> <p>Transmit Freq Error -23 Hz</p> <p>x dB Bandwidth 7.650 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB -26.00 dB</p>

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None</p> <p>Trig: Free Run Avg/Hold: >10/10</p> <p>#FGain: Low #Atten: 26 dB Radio Device: BTS</p> <p>10 dB/div Ref 36.33 dBm</p> <p>Center 400 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 32.8 dBm</p> <p>5.174 kHz</p> <p>Transmit Freq Error -24 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 10.07 kHz x dB -26.00 dB</p> <p>Frequency: 400.012500 MHz</p> <p>Center Freq: 400.012500 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p>
TX-ANL	FM	CH _{M1}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None</p> <p>Trig: Free Run Avg/Hold: >10/10</p> <p>#FGain: Low #Atten: 26 dB Radio Device: BTS</p> <p>10 dB/div Ref 36.71 dBm</p> <p>Center 406 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 32.9 dBm</p> <p>5.177 kHz</p> <p>Transmit Freq Error -21 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 10.05 kHz x dB -26.00 dB</p> <p>Frequency: 405.987500 MHz</p> <p>Center Freq: 405.987500 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p>
TX-ANL	FM	CH _{M2}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Radio Std: None</p> <p>Trig: Free Run Avg/Hold: >10/10</p> <p>#FGain: Low #Atten: 26 dB Radio Device: BTS</p> <p>10 dB/div Ref 36.76 dBm</p> <p>Center 406.1 MHz Span 50 kHz</p> <p>#Res BW 100 Hz #VBW 300 Hz Sweep FFT</p> <p>Occupied Bandwidth Total Power 33.0 dBm</p> <p>5.177 kHz</p> <p>Transmit Freq Error -22 Hz OBW Power 99.00 %</p> <p>x dB Bandwidth 10.05 kHz x dB -26.00 dB</p> <p>Frequency: 406.112500 MHz</p> <p>Center Freq: 406.112500 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p>

Appendix B:Occupied Bandwidth

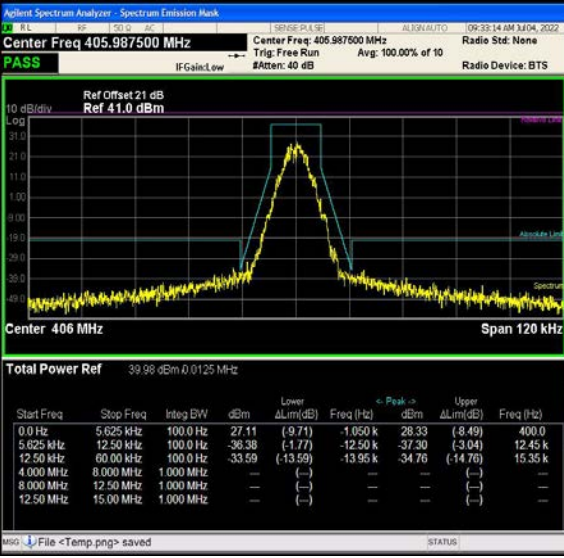
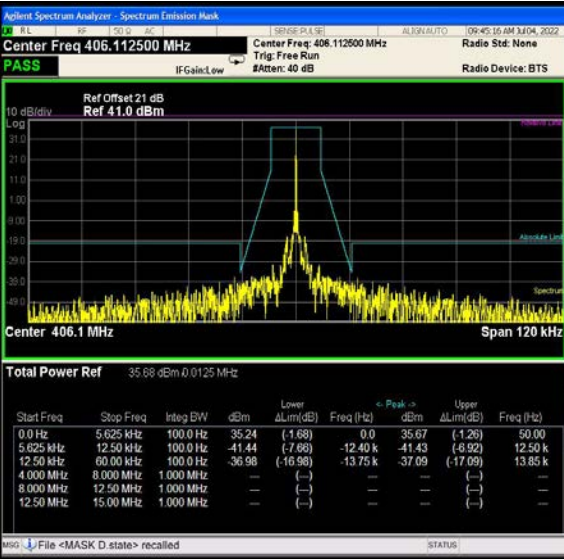
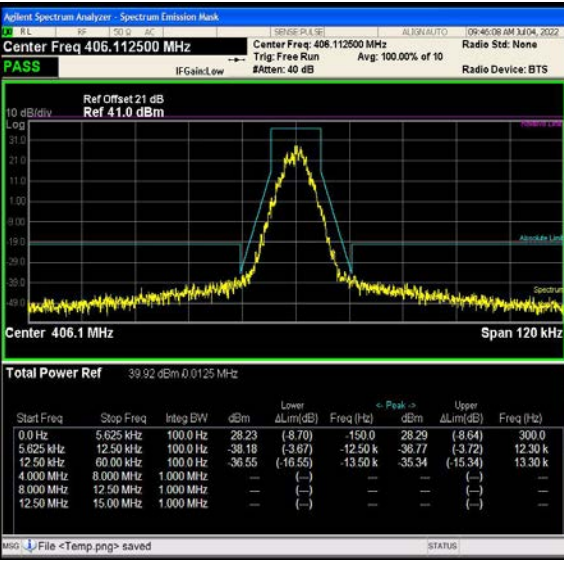
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _{M3}	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 438.012500 MHz</p> <p>Center Freq 438.012500 MHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: >10/10</p> <p>Radio Std: None</p> <p>#FGain: Low</p> <p>#Atten: 26 dB</p> <p>Radio Device: BTS</p> <p>10 dB/div Ref 36.90 dBm</p> <p>Center 438 MHz</p> <p>#Res BW 100 Hz</p> <p>#VBW 300 Hz</p> <p>Span 50 kHz</p> <p>Sweep FFT</p> <p>Occupied Bandwidth 5.176 kHz</p> <p>Total Power 33.2 dBm</p> <p>Transmit Freq Error -23 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 10.04 kHz</p> <p>x dB -26.00 dB</p> <p>Frequency 438.012500 MHz</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p>
TX-ANL	FM	CH _H	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 479.987500 MHz</p> <p>Center Freq 479.987500 MHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: >10/10</p> <p>Radio Std: None</p> <p>#FGain: Low</p> <p>#Atten: 26 dB</p> <p>Radio Device: BTS</p> <p>10 dB/div Ref 36.80 dBm</p> <p>Center 480 MHz</p> <p>#Res BW 100 Hz</p> <p>#VBW 300 Hz</p> <p>Span 50 kHz</p> <p>Sweep FFT</p> <p>Occupied Bandwidth 5.171 kHz</p> <p>Total Power 33.0 dBm</p> <p>Transmit Freq Error -21 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 7.649 kHz</p> <p>x dB -26.00 dB</p> <p>Frequency 479.987500 MHz</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p>

Appendix C:Emission Mask

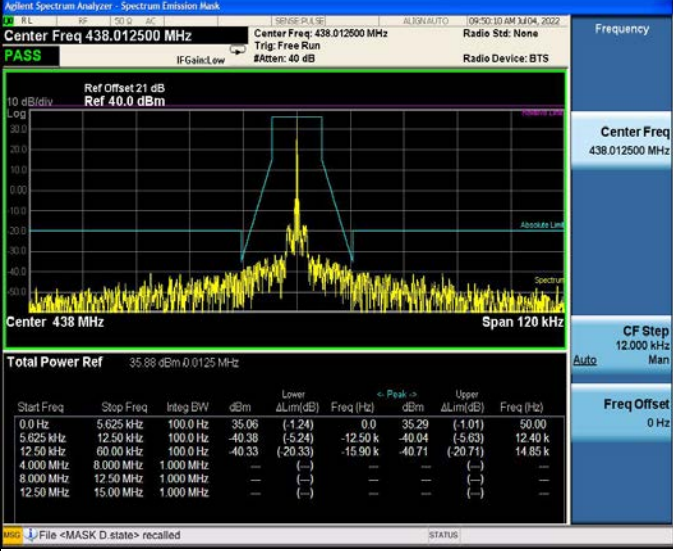
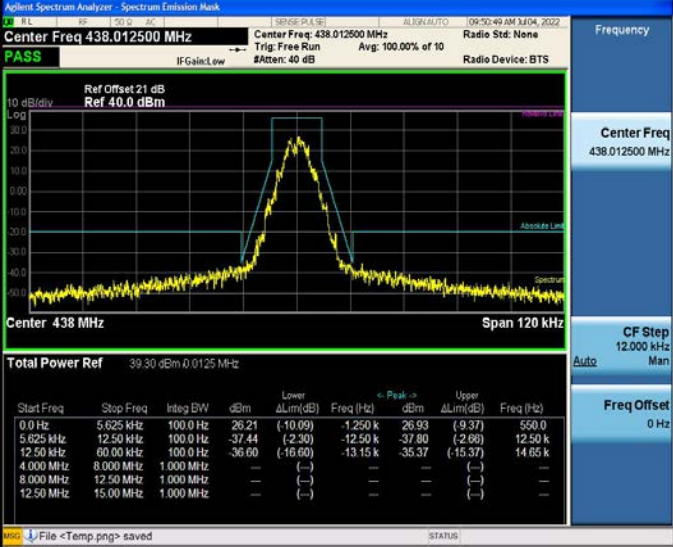
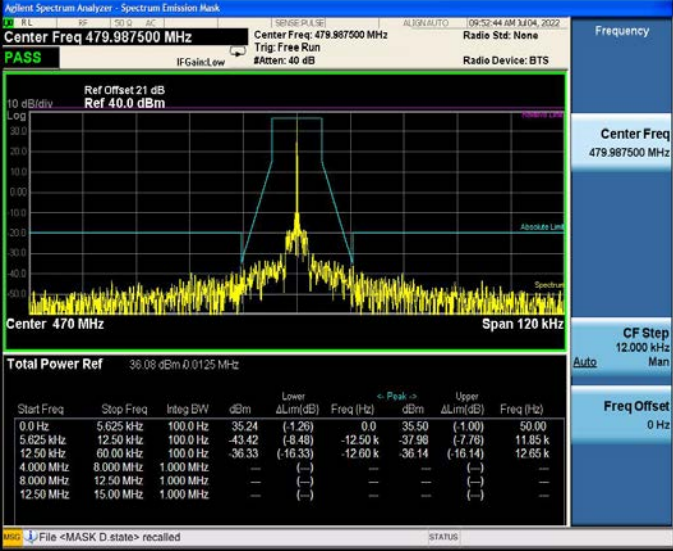
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _L	<thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>Peak dBm</th> <th>Upper ΔLim(dB)</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>-34.95</td> <td>(-1.59)</td> <td>0.0</td> <td>35.48</td> <td>(-1.06)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-38.48</td> <td>(-4.29)</td> <td>-12.40 k</td> <td>-38.74</td> <td>(-3.84)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-37.29</td> <td>(-17.29)</td> <td>-13.70 k</td> <td>-37.32</td> <td>(-17.32)</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> </tbody>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	-34.95	(-1.59)	0.0	35.48	(-1.06)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-38.48	(-4.29)	-12.40 k	-38.74	(-3.84)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.29	(-17.29)	-13.70 k	-37.32	(-17.32)	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	-34.95	(-1.59)	0.0	35.48	(-1.06)	50.00																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-38.48	(-4.29)	-12.40 k	-38.74	(-3.84)	12.50 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-37.29	(-17.29)	-13.70 k	-37.32	(-17.32)	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	—	(—)	—	—	(—)	—																																																										

| TX-DNH | 4FSK | CH_L | | 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 | 29.04 | (-7.50) | 50.00 | 27.19 | (-9.35) | 0.0 | | 5.625 kHz | 12.50 kHz | 100.0 Hz | -37.57 | (-3.77) | -12.35 k | -35.84 | (-2.04) | 12.35 k | | 12.50 kHz | 60.00 kHz | 100.0 Hz | -34.05 | (-14.05) | -12.60 k | -35.48 | (-15.48) | 12.70 k | | 4.000 MHz | 8.000 MHz | 1.000 MHz | — | (—) | — | — | (—) | — | | 8.000 MHz | 12.50 MHz | 1.000 MHz | — | (—) | — | — | (—) | — | | 12.50 MHz | 15.00 MHz | 1.000 MHz | — | (—) | — | — | (—) | — | |
| TX-DNH | 4FSK | CH_{M1} | | 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 | 35.30 | (-1.52) | 0.0 | 35.56 | (-1.26) | 50.00 | | 5.625 kHz | 12.50 kHz | 100.0 Hz | -35.64 | (-3.20) | -12.20 k | -35.35 | (-2.55) | 12.25 k | | 12.50 kHz | 60.00 kHz | 100.0 Hz | -38.99 | (-18.99) | -19.45 k | -38.64 | (-18.64) | 19.55 k | | 4.000 MHz | 8.000 MHz | 1.000 MHz | — | (—) | — | — | (—) | — | | 8.000 MHz | 12.50 MHz | 1.000 MHz | — | (—) | — | — | (—) | — | | 12.50 MHz | 15.00 MHz | 1.000 MHz | — | (—) | — | — | (—) | — | |

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _{M1}	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 405.987500 MHz</p> <p>Ref Offset 21 dB Ref 41.0 dBm</p> <p>Center Freq 406 MHz</p> <p>Span 120 kHz</p> <p>Total Power Ref 39.98 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>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>27.11</td> <td>(9.71)</td> <td>-1.050 k</td> <td>28.33</td> <td>(8.49)</td> <td>400.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-38.38</td> <td>(-1.77)</td> <td>-12.50 k</td> <td>-37.30</td> <td>(-3.04)</td> <td>12.45 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-33.69</td> <td>(-13.59)</td> <td>-13.95 k</td> <td>-34.76</td> <td>(-14.76)</td> <td>15.35 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	27.11	(9.71)	-1.050 k	28.33	(8.49)	400.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.38	(-1.77)	-12.50 k	-37.30	(-3.04)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.69	(-13.59)	-13.95 k	-34.76	(-14.76)	15.35 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNH	4FSK	CH _{M2}	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 406.112500 MHz</p> <p>Ref Offset 21 dB Ref 41.0 dBm</p> <p>Center Freq 406.1 MHz</p> <p>Span 120 kHz</p> <p>Total Power Ref 35.68 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>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>35.24</td> <td>(1.68)</td> <td>0.0</td> <td>35.67</td> <td>(1.26)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-41.44</td> <td>(-7.68)</td> <td>-12.40 k</td> <td>-41.43</td> <td>(-8.92)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-36.98</td> <td>(-16.98)</td> <td>-13.75 k</td> <td>-37.09</td> <td>(-17.09)</td> <td>13.85 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>	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	35.24	(1.68)	0.0	35.67	(1.26)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-41.44	(-7.68)	-12.40 k	-41.43	(-8.92)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.98	(-16.98)	-13.75 k	-37.09	(-17.09)	13.85 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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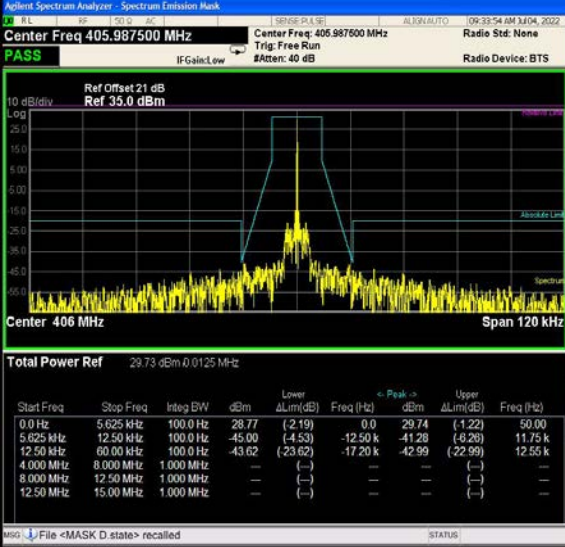
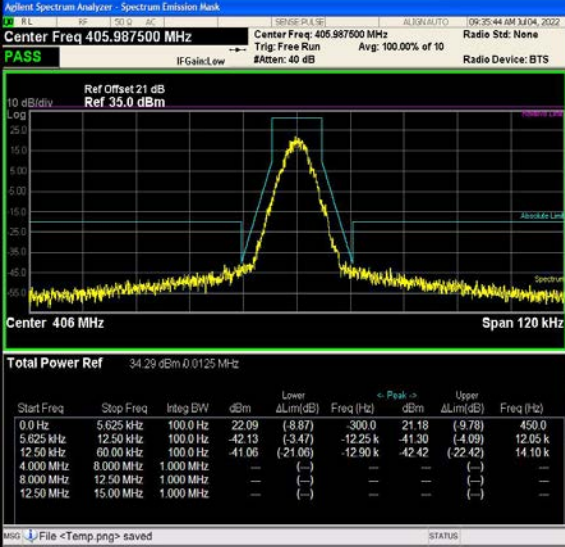
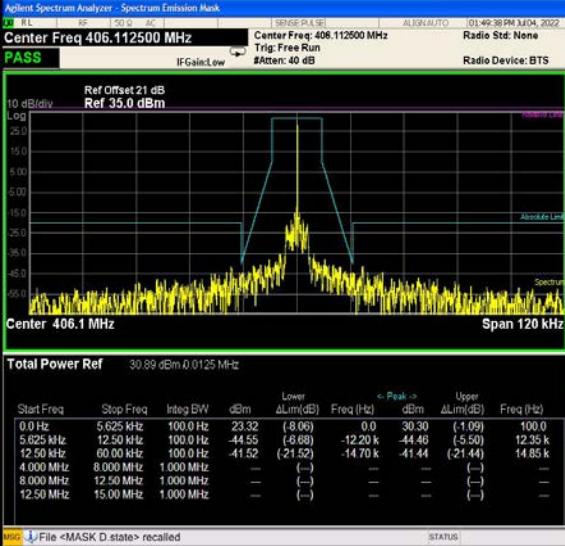
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _{M3}	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 438.012500 MHz</p> <p>Ref Offset 21 dB Ref 40.0 dBm</p> <p>Total Power Ref 35.88 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>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>35.06</td> <td>(-1.24)</td> <td>0.0</td> <td>35.29</td> <td>(-1.01)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-40.38</td> <td>(-5.24)</td> <td>-12.50 k</td> <td>-40.04</td> <td>(-5.63)</td> <td>12.40 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-40.33</td> <td>(-20.33)</td> <td>-15.90 k</td> <td>-40.71</td> <td>(-20.71)</td> <td>14.65 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> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.06	(-1.24)	0.0	35.29	(-1.01)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-40.38	(-5.24)	-12.50 k	-40.04	(-5.63)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.33	(-20.33)	-15.90 k	-40.71	(-20.71)	14.65 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNH	4FSK	CH _H	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 479.987500 MHz</p> <p>Ref Offset 21 dB Ref 40.0 dBm</p> <p>Total Power Ref 36.08 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>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>35.24</td> <td>(-1.26)</td> <td>0.0</td> <td>35.50</td> <td>(-1.00)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-43.42</td> <td>(-8.48)</td> <td>-12.50 k</td> <td>-37.98</td> <td>(-7.78)</td> <td>11.85 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-36.33</td> <td>(-16.33)</td> <td>-12.60 k</td> <td>-36.14</td> <td>(-16.14)</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> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.24	(-1.26)	0.0	35.50	(-1.00)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-43.42	(-8.48)	-12.50 k	-37.98	(-7.78)	11.85 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.33	(-16.33)	-12.60 k	-36.14	(-16.14)	12.65 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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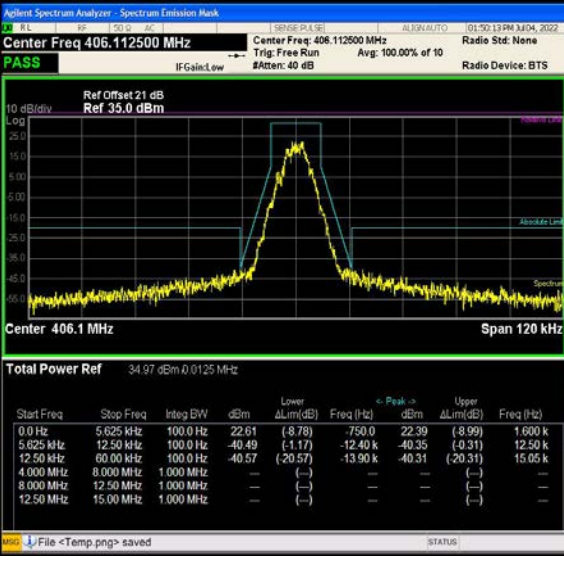
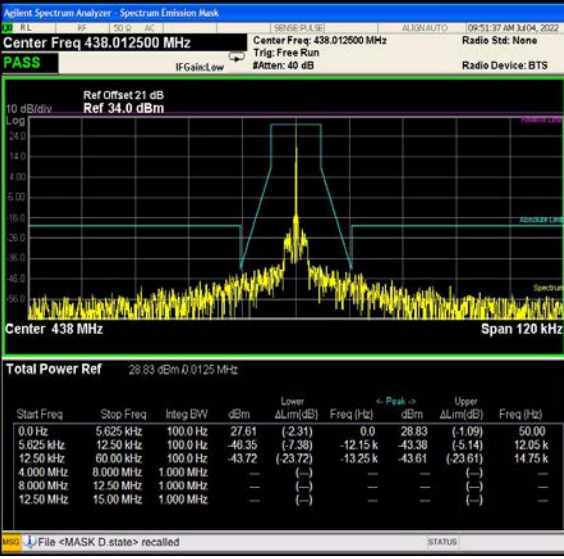
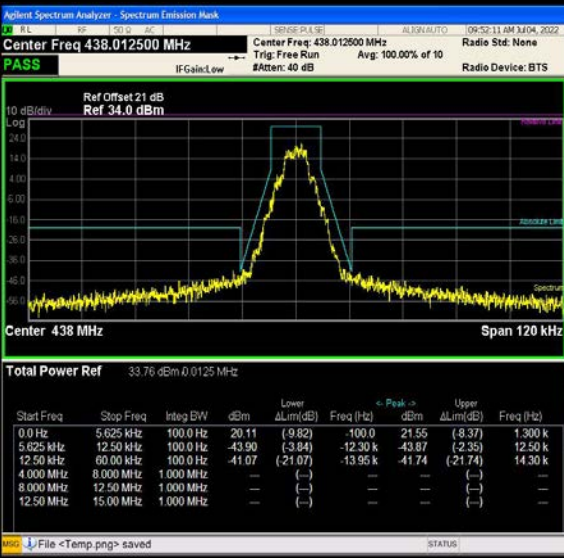
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _H	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq: 479.987500 MHz</p> <p>Ref Offset: 21 dB, Ref: 40.0 dBm</p> <p>Total Power Ref: 40.13 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Peak Freq (Hz)</th> <th>Peak dBm</th> <th>Upper ΔLim(dB)</th> <th>Upper Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>25.94</td> <td>(-10.55)</td> <td>-1.900 k</td> <td>28.34</td> <td>(-8.16)</td> <td>750.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-34.89</td> <td>(-1.77)</td> <td>-12.25 k</td> <td>-37.18</td> <td>(-3.33)</td> <td>12.35 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-36.06</td> <td>(-16.00)</td> <td>-13.70 k</td> <td>-35.33</td> <td>(-15.33)</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> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	25.94	(-10.55)	-1.900 k	28.34	(-8.16)	750.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.89	(-1.77)	-12.25 k	-37.18	(-3.33)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.06	(-16.00)	-13.70 k	-35.33	(-15.33)	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-DNL	4FSK	CH _L	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq: 400.012500 MHz</p> <p>Ref Offset: 21 dB, Ref: 34.0 dBm</p> <p>Total Power Ref: 29.52 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Peak Freq (Hz)</th> <th>Peak dBm</th> <th>Upper ΔLim(dB)</th> <th>Upper Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>26.93</td> <td>(-2.78)</td> <td>0.0</td> <td>28.51</td> <td>(-1.20)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-43.06</td> <td>(-11.51)</td> <td>-11.10 k</td> <td>-42.20</td> <td>(-9.92)</td> <td>11.20 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-46.54</td> <td>(-26.54)</td> <td>-17.55 k</td> <td>-46.91</td> <td>(-26.91)</td> <td>16.50 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	26.93	(-2.78)	0.0	28.51	(-1.20)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-43.06	(-11.51)	-11.10 k	-42.20	(-9.92)	11.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-46.54	(-26.54)	-17.55 k	-46.91	(-26.91)	16.50 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
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TX-DNL	4FSK	CH _{M1}	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 405.987500 MHz</p> <p>Ref Offset 21 dB Ref 35.0 dBm</p> <p>Total Power Ref 34.29 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>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>22.09</td> <td>(-8.87)</td> <td>-300.0</td> <td>21.18</td> <td>(-9.78)</td> <td>450.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-42.13</td> <td>(-3.47)</td> <td>-12.25 k</td> <td>-41.30</td> <td>(-4.09)</td> <td>12.05 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-41.06</td> <td>(-21.06)</td> <td>-12.90 k</td> <td>-42.42</td> <td>(-22.42)</td> <td>14.10 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	22.09	(-8.87)	-300.0	21.18	(-9.78)	450.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.13	(-3.47)	-12.25 k	-41.30	(-4.09)	12.05 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.06	(-21.06)	-12.90 k	-42.42	(-22.42)	14.10 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNL	4FSK	CH _{M2}	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 406.112500 MHz</p> <p>Ref Offset 21 dB Ref 35.0 dBm</p> <p>Total Power Ref 30.89 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>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>23.32</td> <td>(-8.06)</td> <td>0.0</td> <td>30.30</td> <td>(-1.09)</td> <td>100.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-44.55</td> <td>(-8.89)</td> <td>-12.20 k</td> <td>-44.46</td> <td>(-5.50)</td> <td>12.35 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-41.52</td> <td>(-21.52)</td> <td>-14.70 k</td> <td>-41.44</td> <td>(-21.44)</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> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	23.32	(-8.06)	0.0	30.30	(-1.09)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-44.55	(-8.89)	-12.20 k	-44.46	(-5.50)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.52	(-21.52)	-14.70 k	-41.44	(-21.44)	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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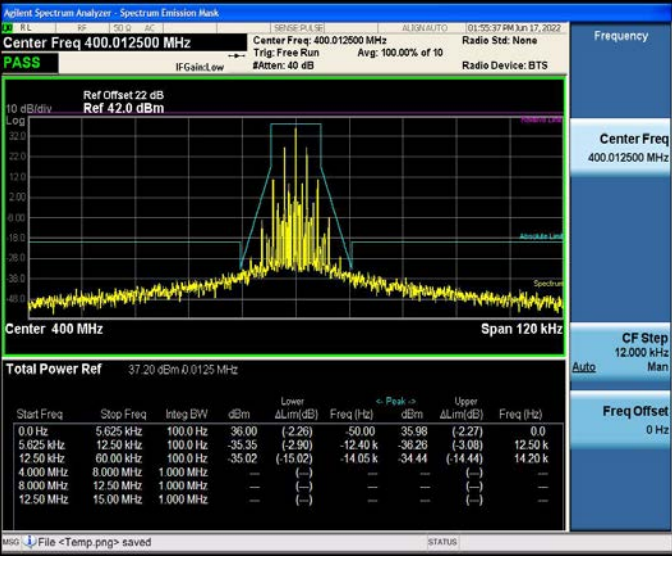
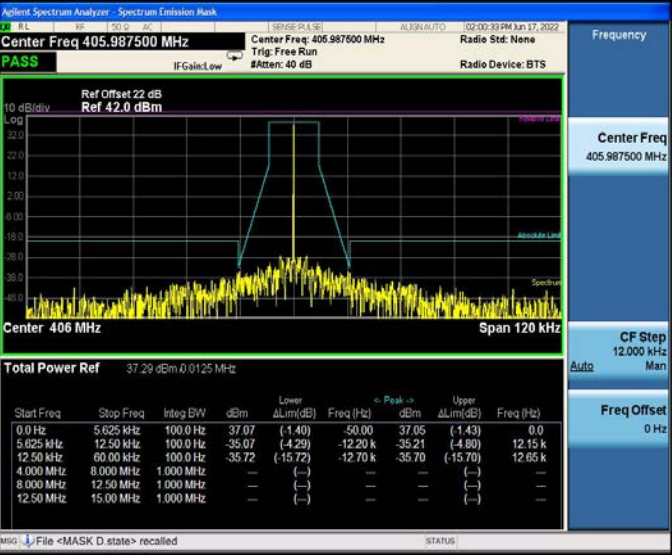
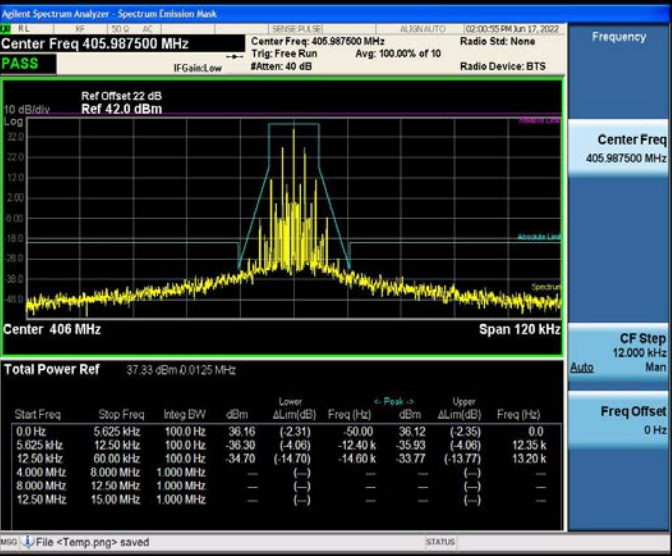
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _{M2}	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 406.112500 MHz</p> <p>Ref Offset 21 dB Ref 35.0 dBm</p> <p>Total Power Ref 34.97 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>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>22.61</td> <td>(-8.78)</td> <td>-750.0</td> <td>22.39</td> <td>(-8.99)</td> <td>1.600 k</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-40.49</td> <td>(-1.17)</td> <td>-12.40 k</td> <td>-40.35</td> <td>(-0.31)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-40.57</td> <td>(-20.57)</td> <td>-13.90 k</td> <td>-40.31</td> <td>(-20.31)</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>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	22.61	(-8.78)	-750.0	22.39	(-8.99)	1.600 k	5.625 kHz	12.50 kHz	100.0 Hz	-40.49	(-1.17)	-12.40 k	-40.35	(-0.31)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.57	(-20.57)	-13.90 k	-40.31	(-20.31)	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	—	(—)	—	—	(—)	—
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TX-DNL	4FSK	CH _{M3}	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 438.012500 MHz</p> <p>Ref Offset 21 dB Ref 34.0 dBm</p> <p>Total Power Ref 29.83 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>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>27.61</td> <td>(-2.31)</td> <td>0.0</td> <td>28.83</td> <td>(-1.09)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-46.35</td> <td>(-7.38)</td> <td>-12.15 k</td> <td>-43.38</td> <td>(-5.14)</td> <td>12.05 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-43.72</td> <td>(-23.72)</td> <td>-13.25 k</td> <td>-43.61</td> <td>(-23.61)</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> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	27.61	(-2.31)	0.0	28.83	(-1.09)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-46.35	(-7.38)	-12.15 k	-43.38	(-5.14)	12.05 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.72	(-23.72)	-13.25 k	-43.61	(-23.61)	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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Appendix C:Emission Mask

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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANH	FM	CH _{M2}	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 406.112500 MHz</p> <p>Ref Offset 22 dB Ref 43.0 dBm</p> <p>Total Power Ref 37.32 dBm/0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>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>37.06</td> <td>(-1.45)</td> <td>0.0</td> <td>37.06</td> <td>(-1.45)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-35.08</td> <td>(-2.87)</td> <td>-12.40 k</td> <td>-35.21</td> <td>(-3.37)</td> <td>12.35 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>-12.55 k</td> <td>-35.59</td> <td>(-15.59)</td> <td>12.50 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	37.06	(-1.45)	0.0	37.06	(-1.45)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.08	(-2.87)	-12.40 k	-35.21	(-3.37)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.70	(-15.70)	-12.55 k	-35.59	(-15.59)	12.50 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANH	FM	CH _{M2}	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 406.112500 MHz</p> <p>Ref Offset 22 dB Ref 43.0 dBm</p> <p>Total Power Ref 37.40 dBm/0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>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>36.14</td> <td>(-2.37)</td> <td>0.0</td> <td>36.14</td> <td>(-2.37)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-35.36</td> <td>(-3.88)</td> <td>-12.30 k</td> <td>-34.25</td> <td>(-4.23)</td> <td>12.10 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-33.23</td> <td>(-13.23)</td> <td>-12.90 k</td> <td>-32.76</td> <td>(-12.76)</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> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	36.14	(-2.37)	0.0	36.14	(-2.37)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.36	(-3.88)	-12.30 k	-34.25	(-4.23)	12.10 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.23	(-13.23)	-12.90 k	-32.76	(-12.76)	12.65 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANH	FM	CH _{M3}	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 438.012500 MHz</p> <p>Ref Offset 23 dB Ref 42.0 dBm</p> <p>Total Power Ref 37.91 dBm/0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>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>37.67</td> <td>(-0.77)</td> <td>0.0</td> <td>37.67</td> <td>(-0.77)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-35.04</td> <td>(-2.77)</td> <td>-12.40 k</td> <td>-35.05</td> <td>(-3.14)</td> <td>12.35 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-34.86</td> <td>(-14.86)</td> <td>-18.50 k</td> <td>-35.01</td> <td>(-15.01)</td> <td>18.45 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	37.67	(-0.77)	0.0	37.67	(-0.77)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.04	(-2.77)	-12.40 k	-35.05	(-3.14)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.86	(-14.86)	-18.50 k	-35.01	(-15.01)	18.45 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANH	FM	CH _{M3}	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 438.012500 MHz</p> <p>Ref Offset 23 dB, Ref 42.0 dBm</p> <p>Total Power Ref 38.19 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>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>36.77</td> <td>(-1.67)</td> <td>0.0</td> <td>36.77</td> <td>(-1.67)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-35.57</td> <td>(-3.30)</td> <td>-12.40 k</td> <td>-33.08</td> <td>(-2.97)</td> <td>12.10 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-33.09</td> <td>(-13.09)</td> <td>-15.65 k</td> <td>-32.68</td> <td>(-12.68)</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> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	36.77	(-1.67)	0.0	36.77	(-1.67)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.57	(-3.30)	-12.40 k	-33.08	(-2.97)	12.10 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.09	(-13.09)	-15.65 k	-32.68	(-12.68)	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	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

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TX-ANL	FM	CH _L	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 400.012500 MHz</p> <p>Ref Offset 22 dB Ref 38.0 dBm</p> <p>Center 400 MHz Span 120 kHz</p> <p>Total Power Ref 32.61 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Peak 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>32.38</td> <td>(-1.48)</td> <td>50.00</td> <td>32.35</td> <td>(-1.50)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-42.08</td> <td>(-4.47)</td> <td>-12.50 k</td> <td>-42.68</td> <td>(-5.48)</td> <td>12.45 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-40.52</td> <td>(-20.52)</td> <td>-13.00 k</td> <td>-40.52</td> <td>(-20.52)</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>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	32.38	(-1.48)	50.00	32.35	(-1.50)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.08	(-4.47)	-12.50 k	-42.68	(-5.48)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.52	(-20.52)	-13.00 k	-40.52	(-20.52)	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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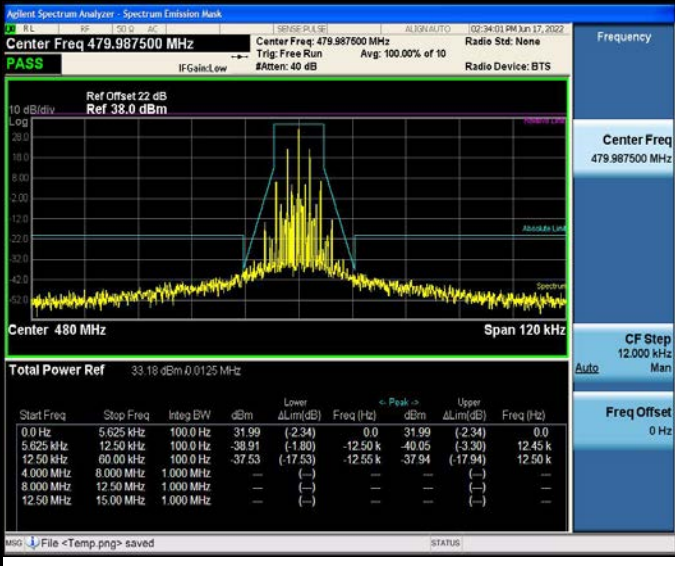
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
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Appendix C:Emission Mask

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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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TX-ANL	FM	CH _{M3}	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 438.012500 MHz</p> <p>Ref Offset 23 dB Ref 38.0 dBm</p> <p>Total Power Ref 34.00 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>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>32.76</td> <td>(-1.71)</td> <td>0.0</td> <td>32.76</td> <td>(-1.71)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-38.53</td> <td>(-1.58)</td> <td>-12.50 k</td> <td>-38.05</td> <td>(-1.08)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-38.48</td> <td>(-18.48)</td> <td>-15.30 k</td> <td>-38.90</td> <td>(-18.90)</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> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	32.76	(-1.71)	0.0	32.76	(-1.71)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.53	(-1.58)	-12.50 k	-38.05	(-1.08)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.48	(-18.48)	-15.30 k	-38.90	(-18.90)	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	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _H	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 479.987500 MHz</p> <p>Ref Offset 22 dB Ref 38.0 dBm</p> <p>Total Power Ref 33.18 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>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>31.99</td> <td>(-2.34)</td> <td>0.0</td> <td>31.99</td> <td>(-2.34)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-38.91</td> <td>(-1.80)</td> <td>-12.50 k</td> <td>-40.05</td> <td>(-3.30)</td> <td>12.45 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-37.53</td> <td>(-17.53)</td> <td>-12.55 k</td> <td>-37.94</td> <td>(-17.94)</td> <td>12.50 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	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	31.99	(-2.34)	0.0	31.99	(-2.34)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.91	(-1.80)	-12.50 k	-40.05	(-3.30)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.53	(-17.53)	-12.55 k	-37.94	(-17.94)	12.50 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix D:Modulation Limit

Operatio n 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	0.080	0.192	0.260	0.375	2.5	PASS
TX-ANH	FM	CH _{M2}	-15	0.113	0.297	0.423	0.618	2.5	PASS
TX-ANH	FM	CH _{M2}	-10	0.171	0.503	0.732	0.993	2.5	PASS
TX-ANH	FM	CH _{M2}	-5	0.260	0.861	1.280	1.519	2.5	PASS
TX-ANH	FM	CH _{M2}	0	0.468	1.469	1.621	1.609	2.5	PASS
TX-ANH	FM	CH _{M2}	5	0.796	1.787	1.684	1.705	2.5	PASS
TX-ANH	FM	CH _{M2}	10	1.383	1.942	1.729	1.740	2.5	PASS
TX-ANH	FM	CH _{M2}	15	1.637	1.986	1.726	1.766	2.5	PASS
TX-ANH	FM	CH _{M2}	20	1.790	2.001	1.716	1.786	2.5	PASS

Appendix D:Modulation Limit

TEST PLOT RESULT

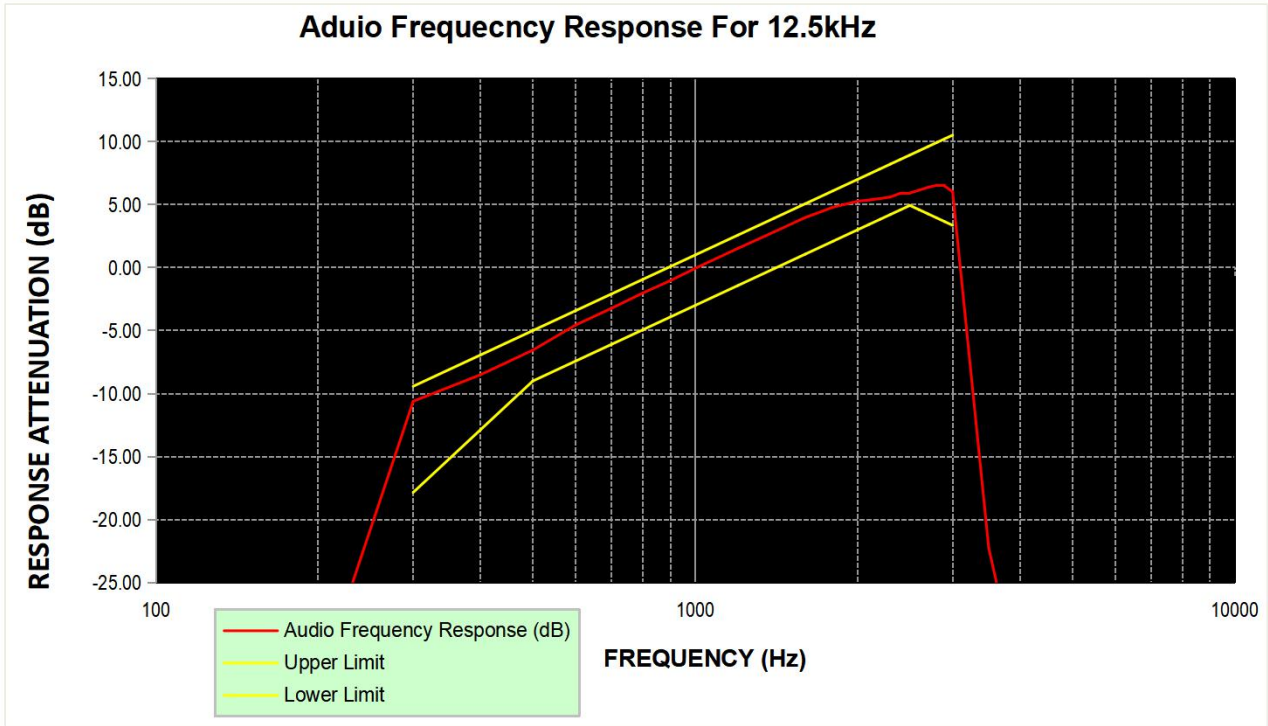


Appendix E:Audio Frequency Response

Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-ANH	FM	CH _{M2}	100	-33.21			PASS
TX-ANH	FM	CH _{M2}	200	-33.16			PASS
TX-ANH	FM	CH _{M2}	300	-10.61	-17.84	-9.42	PASS
TX-ANH	FM	CH _{M2}	400	-8.50	-12.86	-6.93	PASS
TX-ANH	FM	CH _{M2}	500	-6.55	-9.00	-5.00	PASS
TX-ANH	FM	CH _{M2}	600	-4.56	-7.42	-3.42	PASS
TX-ANH	FM	CH _{M2}	700	-3.23	-6.09	-2.09	PASS
TX-ANH	FM	CH _{M2}	800	-2.01	-4.93	-0.93	PASS
TX-ANH	FM	CH _{M2}	900	-1.03	-3.91	0.09	PASS
TX-ANH	FM	CH _{M2}	1000	-0.06	-3.00	1.00	PASS
TX-ANH	FM	CH _{M2}	1200	1.52	-1.42	2.58	PASS
TX-ANH	FM	CH _{M2}	1400	2.83	-0.09	3.91	PASS
TX-ANH	FM	CH _{M2}	1600	3.98	1.07	5.07	PASS
TX-ANH	FM	CH _{M2}	1800	4.79	2.09	6.09	PASS
TX-ANH	FM	CH _{M2}	2000	5.26	3.00	7.00	PASS
TX-ANH	FM	CH _{M2}	2100	5.36	3.42	7.42	PASS
TX-ANH	FM	CH _{M2}	2200	5.48	3.83	7.83	PASS
TX-ANH	FM	CH _{M2}	2300	5.60	4.21	8.21	PASS
TX-ANH	FM	CH _{M2}	2400	5.90	4.58	8.58	PASS
TX-ANH	FM	CH _{M2}	2500	5.91	4.93	8.93	PASS
TX-ANH	FM	CH _{M2}	2600	6.14	4.59	9.27	PASS
TX-ANH	FM	CH _{M2}	2700	6.37	4.27	9.60	PASS
TX-ANH	FM	CH _{M2}	2800	6.52	3.95	9.91	PASS
TX-ANH	FM	CH _{M2}	2900	6.47	3.65	10.22	PASS
TX-ANH	FM	CH _{M2}	3000	6.02	3.35	10.51	PASS
TX-ANH	FM	CH _{M2}	3500	-22.25			PASS
TX-ANH	FM	CH _{M2}	4000	-33.32			PASS
TX-ANH	FM	CH _{M2}	4500	-33.15			PASS
TX-ANH	FM	CH _{M2}	5000	-32.89			PASS

Appendix E:Audio Frequency Response

TEST PLOT RESULT



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	-0.201	-0.231	-0.219	-0.250	-0.234	±5.0	PASS
TX-DNH	4FSK	V _N	-20	-0.209	-0.216	-0.224	-0.233	-0.256	±5.0	PASS
TX-DNH	4FSK	V _N	-10	-0.200	-0.211	-0.207	-0.235	-0.249	±5.0	PASS
TX-DNH	4FSK	V _N	0	-0.197	-0.215	-0.223	-0.244	-0.249	±5.0	PASS
TX-DNH	4FSK	V _N	10	-0.203	-0.229	-0.216	-0.240	-0.234	±5.0	PASS
TX-DNH	4FSK	V _N	20	-0.195	-0.211	-0.204	-0.229	-0.234	±5.0	PASS
TX-DNH	4FSK	V _N	30	-0.201	-0.214	-0.224	-0.240	-0.249	±5.0	PASS
TX-DNH	4FSK	V _N	40	-0.197	-0.218	-0.210	-0.251	-0.239	±5.0	PASS
TX-DNH	4FSK	V _N	50	-0.200	-0.231	-0.216	-0.244	-0.249	±5.0	PASS
TX-DNL	4FSK	V _N	-30	-0.212	-0.208	-0.202	-0.227	-0.252	±5.0	PASS
TX-DNL	4FSK	V _N	-20	-0.217	-0.206	-0.200	-0.227	-0.259	±5.0	PASS
TX-DNL	4FSK	V _N	-10	-0.216	-0.220	-0.206	-0.226	-0.259	±5.0	PASS
TX-DNL	4FSK	V _N	0	-0.219	-0.214	-0.206	-0.228	-0.251	±5.0	PASS
TX-DNL	4FSK	V _N	10	-0.213	-0.205	-0.200	-0.222	-0.253	±5.0	PASS
TX-DNL	4FSK	V _N	20	-0.204	-0.205	-0.199	-0.218	-0.237	±5.0	PASS
TX-DNL	4FSK	V _N	30	-0.223	-0.220	-0.205	-0.225	-0.260	±5.0	PASS
TX-DNL	4FSK	V _N	40	-0.224	-0.214	-0.210	-0.231	-0.242	±5.0	PASS
TX-DNL	4FSK	V _N	50	-0.215	-0.223	-0.208	-0.222	-0.246	±5.0	PASS
TX-ANH	FM	V _N	-30	0.008	0.002	-0.003	0.009	0.011	±5.0	PASS
TX-ANH	FM	V _N	-20	0.008	0.002	-0.003	0.010	0.011	±5.0	PASS
TX-ANH	FM	V _N	-10	0.009	0.002	-0.003	0.010	0.010	±5.0	PASS
TX-ANH	FM	V _N	0	0.009	0.002	-0.003	0.010	0.011	±5.0	PASS
TX-ANH	FM	V _N	10	0.008	0.002	-0.003	0.009	0.010	±5.0	PASS
TX-ANH	FM	V _N	20	0.008	0.002	-0.003	0.009	0.010	±5.0	PASS
TX-ANH	FM	V _N	30	0.008	0.002	-0.003	0.009	0.011	±5.0	PASS
TX-ANH	FM	V _N	40	0.009	0.002	-0.003	0.009	0.010	±5.0	PASS
TX-ANH	FM	V _N	50	0.008	0.002	-0.003	0.009	0.010	±5.0	PASS
TX-ANL	FM	V _N	-30	0.002	0.003	0.017	0.013	0.011	±5.0	PASS
TX-ANL	FM	V _N	-20	0.002	0.003	0.019	0.013	0.011	±5.0	PASS
TX-ANL	FM	V _N	-10	0.002	0.003	0.019	0.013	0.011	±5.0	PASS
TX-ANL	FM	V _N	0	0.002	0.003	0.018	0.013	0.012	±5.0	PASS
TX-ANL	FM	V _N	10	0.002	0.003	0.018	0.013	0.012	±5.0	PASS
TX-ANL	FM	V _N	20	0.002	0.003	0.017	0.012	0.011	±5.0	PASS
TX-ANL	FM	V _N	30	0.002	0.003	0.019	0.012	0.011	±5.0	PASS
TX-ANL	FM	V _N	40	0.002	0.003	0.019	0.012	0.012	±5.0	PASS
TX-ANL	FM	V _N	50	0.002	0.003	0.018	0.013	0.011	±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	-0.195	-0.211	-0.204	-0.229	-0.234	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	-0.197	-0.211	-0.207	-0.231	-0.236	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	-0.203	-0.214	-0.214	-0.238	-0.242	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	-0.204	-0.205	-0.199	-0.218	-0.237	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	-0.207	-0.207	-0.201	-0.222	-0.238	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	-0.209	-0.210	-0.201	-0.229	-0.244	±5.0	PASS
TX-ANH	FM	V _N	T _N	0.008	0.002	-0.003	0.009	0.010	±5.0	PASS
TX-ANH	FM	V _L	T _N	0.008	0.002	-0.003	0.009	0.010	±5.0	PASS
TX-ANH	FM	V _H	T _N	0.008	0.002	-0.003	0.009	0.011	±5.0	PASS
TX-ANL	FM	V _N	T _N	0.002	0.003	0.017	0.012	0.011	±5.0	PASS
TX-ANL	FM	V _L	T _N	0.002	0.003	0.017	0.012	0.011	±5.0	PASS
TX-ANL	FM	V _H	T _N	0.002	0.003	0.018	0.012	0.011	±5.0	PASS

Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT												
TX-DNH	4FSK	CH _{M2}	<p>MultiView Spectrum Analog Demod</p> <p>Ref Level 47.00 dBm Offset 27.00 dB Att 30 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRIG:IFX(17MHz) VIG Bypass</p> <p>CF 406.1125 MHz 1001 pts 10.0 ms/</p> <p>4 Result Summary</p> <table border="1"> <tr> <td colspan="2">Carrier Power 37.39 dBm</td> <td colspan="2">Carrier Offset -91.37 Hz</td> </tr> <tr> <td>+Peak</td> <td>-Peak</td> <td>+Peak/2</td> <td>RMS</td> </tr> <tr> <td>23.461 kHz</td> <td>-26.881 kHz</td> <td>25.171 kHz</td> <td>2.9038 kHz</td> </tr> </table> <p>Date: 20 JUN 2022 16:40:32</p>	Carrier Power 37.39 dBm		Carrier Offset -91.37 Hz		+Peak	-Peak	+Peak/2	RMS	23.461 kHz	-26.881 kHz	25.171 kHz	2.9038 kHz
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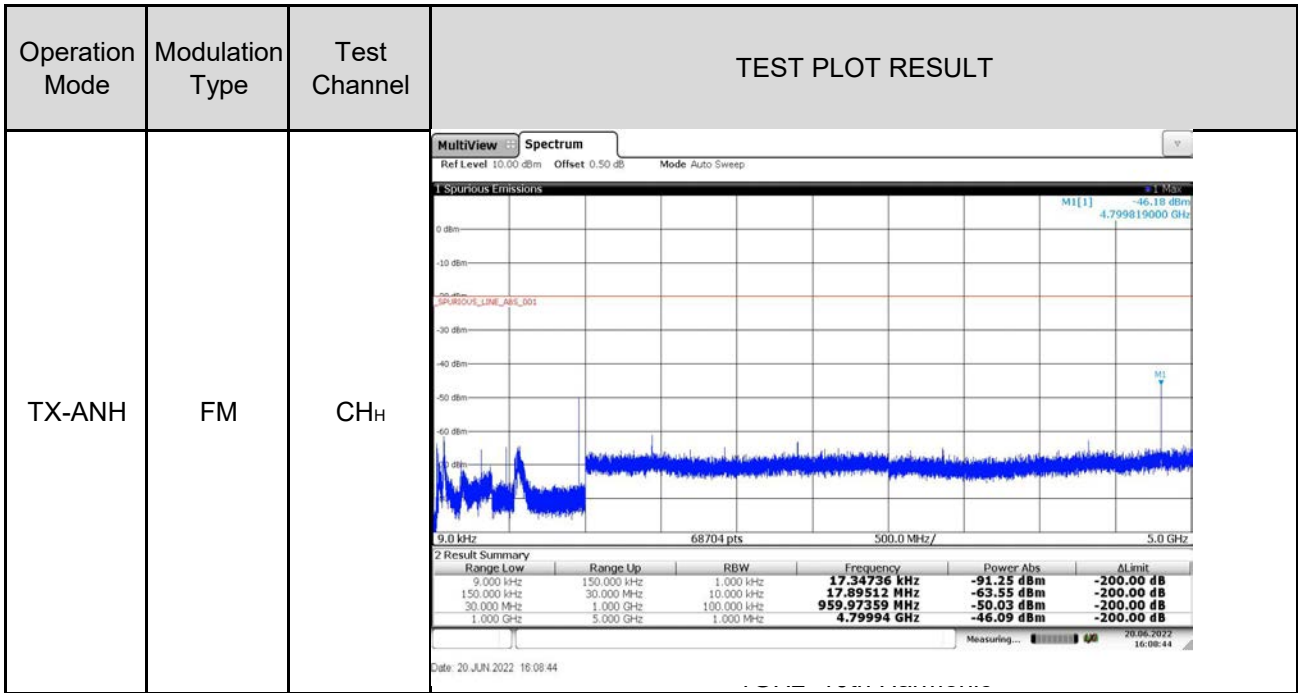
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9.000 kHz	150.000 kHz	1.000 kHz	9.10057 kHz	-90.85 dBm	-200.00 dB																												
150.000 kHz	30.000 MHz	10.000 kHz	26.59422 MHz	-72.11 dBm	-200.00 dB																												
30.000 MHz	1.000 GHz	100.000 kHz	438.00866 MHz	-41.82 dBm	-200.00 dB																												
1.000 GHz	5.000 GHz	1.000 MHz	1.31393 GHz	-50.25 dBm	-200.00 dB																												

Appendix I:Spurious Emission On Antenna Port



----End of Report----