

Project No.	SHT2409061701W		
Test sample No.	YPHT24090617001	Model No.	BF-TD588UV
Start test date	2024/10/10	Finish date	2024/10/12
Temperature	25.1°C	Humidity	49%
Test Engineer	Xiangyu Wei	Auditor	<i>Xiaodong Zhu</i>

Appendix clause	Test Item	Test date (M/D)	Test Result (PASS/FAIL)
A	Maximum Transmitter Power	10/10	PASS
B	Occupied Bandwidth	10/10	PASS
C	Emission Mask	10/10	PASS
D	Frequency Stability Test & Temperature	10/10	PASS
E	Frequency Stability Test & Voltage	10/10	PASS
F	Transmitter Frequency Behavior	10/12	PASS
G	Spurious Emission On Antenna Port	10/10	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 <sub>L1</sub>	36.60	4.57	5.00	-8.60	±20	PASS
TX-DNH	4FSK	CH <sub>M1</sub>	36.80	4.79	5.00	-4.20	±20	PASS
TX-DNH	4FSK	CH <sub>H1</sub>	37.00	5.01	5.00	0.20	±20	PASS
TX-DNL	4FSK	CH <sub>L1</sub>	30.20	1.05	1.00	5.00	±20	PASS
TX-DNL	4FSK	CH <sub>M1</sub>	30.32	1.08	1.00	8.00	±20	PASS
TX-DNL	4FSK	CH <sub>H1</sub>	30.30	1.07	1.00	7.00	±20	PASS
TX-DNH	4FSK	CH <sub>L2</sub>	36.80	4.79	5.00	-4.20	±20	PASS
TX-DNH	4FSK	CH <sub>M2</sub>	37.00	5.01	5.00	0.20	±20	PASS
TX-DNH	4FSK	CH <sub>H2</sub>	36.20	4.17	5.00	-16.60	±20	PASS
TX-DNL	4FSK	CH <sub>L2</sub>	30.70	1.17	1.00	17.00	±20	PASS
TX-DNL	4FSK	CH <sub>M2</sub>	29.50	0.89	1.00	-11.00	±20	PASS
TX-DNL	4FSK	CH <sub>H2</sub>	30.40	1.10	1.00	10.00	±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 <sub>L1</sub>	7.18	9.00	≤11.25	PASS
TX-DNH	4FSK	CH <sub>M1</sub>	7.22	9.12	≤11.25	PASS
TX-DNH	4FSK	CH <sub>H1</sub>	7.24	9.10	≤11.25	PASS
TX-DNL	4FSK	CH <sub>L1</sub>	7.36	9.26	≤11.25	PASS
TX-DNL	4FSK	CH <sub>M1</sub>	7.33	9.17	≤11.25	PASS
TX-DNL	4FSK	CH <sub>H1</sub>	7.19	9.24	≤11.25	PASS
TX-DNH	4FSK	CH <sub>L2</sub>	6.71	8.83	≤11.25	PASS
TX-DNH	4FSK	CH <sub>M2</sub>	6.88	9.02	≤11.25	PASS
TX-DNH	4FSK	CH <sub>H2</sub>	6.86	8.94	≤11.25	PASS
TX-DNL	4FSK	CH <sub>L2</sub>	6.82	8.88	≤11.25	PASS
TX-DNL	4FSK	CH <sub>M2</sub>	6.78	8.93	≤11.25	PASS
TX-DNL	4FSK	CH <sub>H2</sub>	6.87	8.91	≤11.25	PASS

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH <sub>L1</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 136.012500 MHz   Center Freq: 136.012500 MHz   Radio Std: None   Frequency</p> <p>Trig: Free Run   Avg/Hold: &gt;10/10   09:25:41 PM Oct 10, 2024</p> <p>#IF Gain: Low   #Atten: 30 dB   Radio Device: BTS</p> <p>10 dB/div   Ref 40.67 dBm</p> <p>Center 136 MHz   #Res BW 100 Hz   #VBW 300 Hz   Span 50 kHz   Sweep FFT</p> <p>Occupied Bandwidth 7.175 kHz   Total Power 43.7 dBm</p> <p>Transmit Freq Error -50 Hz   OBW Power 99.00 %</p> <p>x dB Bandwidth 8.999 kHz   x dB -26.00 dB</p> <p>MSG   STATUS   DC Coupled</p>
TX-DNH	4FSK	CH <sub>M1</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 155.000000 MHz   Center Freq: 155.000000 MHz   Radio Std: None   Frequency</p> <p>Trig: Free Run   Avg/Hold: &gt;10/10   09:01:13 PM Oct 10, 2024</p> <p>#IF Gain: Low   #Atten: 30 dB   Radio Device: BTS</p> <p>10 dB/div   Ref 40.76 dBm</p> <p>Center 155 MHz   #Res BW 100 Hz   #VBW 300 Hz   Span 50 kHz   Sweep FFT</p> <p>Occupied Bandwidth 7.216 kHz   Total Power 44.0 dBm</p> <p>Transmit Freq Error -131 Hz   OBW Power 99.00 %</p> <p>x dB Bandwidth 9.116 kHz   x dB -26.00 dB</p> <p>MSG   STATUS   DC Coupled</p>
TX-DNH	4FSK	CH <sub>H1</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 173.987500 MHz   Center Freq: 173.987500 MHz   Radio Std: None   Frequency</p> <p>Trig: Free Run   Avg/Hold: &gt;10/10   09:10:32 PM Oct 10, 2024</p> <p>#IF Gain: Low   #Atten: 32 dB   Radio Device: BTS</p> <p>10 dB/div   Ref 41.01 dBm</p> <p>Center 174 MHz   #Res BW 100 Hz   #VBW 300 Hz   Span 50 kHz   Sweep FFT</p> <p>Occupied Bandwidth 7.237 kHz   Total Power 44.3 dBm</p> <p>Transmit Freq Error -96 Hz   OBW Power 99.00 %</p> <p>x dB Bandwidth 9.095 kHz   x dB -26.00 dB</p> <p>MSG   STATUS   DC Coupled</p>

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH <sub>L1</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 136.012500 MHz   Center Freq: 136.012500 MHz   Radio Std: None</p> <p>Trig: Free Run   AvgHold: 10/10</p> <p>#IF Gain: Low   #Atten: 24 dB   Radio Device: BTS</p> <p>Ref 34.22 dBm</p> <p>Center 136 MHz   #Res BW 100 Hz   #VBW 300 Hz   Span 50 kHz   Sweep FFT</p> <p><b>Occupied Bandwidth 7.358 kHz</b>   Total Power 37.3 dBm</p> <p>Transmit Freq Error -22 Hz   OBW Power 99.00 %</p> <p>x dB Bandwidth 9.259 kHz   x dB -26.00 dB</p> <p>Frequency: 136.012500 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p>
TX-DNL	4FSK	CH <sub>M1</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 155.000000 MHz   Center Freq: 155.000000 MHz   Radio Std: None</p> <p>Trig: Free Run   AvgHold: 10/10</p> <p>#IF Gain: Low   #Atten: 26 dB   Radio Device: BTS</p> <p>Ref 34.99 dBm</p> <p>Center 155 MHz   #Res BW 100 Hz   #VBW 300 Hz   Span 50 kHz   Sweep FFT</p> <p><b>Occupied Bandwidth 7.325 kHz</b>   Total Power 38.1 dBm</p> <p>Transmit Freq Error -20 Hz   OBW Power 99.00 %</p> <p>x dB Bandwidth 9.168 kHz   x dB -26.00 dB</p> <p>Frequency: 155.000000 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p>
TX-DNL	4FSK	CH <sub>H1</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 173.987500 MHz   Center Freq: 173.987500 MHz   Radio Std: None</p> <p>Trig: Free Run   AvgHold: 10/10</p> <p>#IF Gain: Low   #Atten: 26 dB   Radio Device: BTS</p> <p>Ref 35.18 dBm</p> <p>Center 174 MHz   #Res BW 100 Hz   #VBW 300 Hz   Span 50 kHz   Sweep FFT</p> <p><b>Occupied Bandwidth 7.188 kHz</b>   Total Power 38.3 dBm</p> <p>Transmit Freq Error -86 Hz   OBW Power 99.00 %</p> <p>x dB Bandwidth 9.235 kHz   x dB -26.00 dB</p> <p>Frequency: 173.987500 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 <sub>L2</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 400.012500 MHz   Center Freq: 400.012500 MHz   Radio Std: None</p> <p>Ref 40.38 dBm</p> <p>Occupied Bandwidth: 6.707 kHz   Total Power: 42.7 dBm</p> <p>Transmit Freq Error: -89 Hz   OBW Power: 99.00 %</p> <p>x dB Bandwidth: 8.825 kHz   x dB: -26.00 dB</p>
TX-DNH	4FSK	CH <sub>M2</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 435.000000 MHz   Center Freq: 435.000000 MHz   Radio Std: None</p> <p>Ref 40.36 dBm</p> <p>Occupied Bandwidth: 6.875 kHz   Total Power: 43.6 dBm</p> <p>Transmit Freq Error: 6 Hz   OBW Power: 99.00 %</p> <p>x dB Bandwidth: 9.018 kHz   x dB: -26.00 dB</p>
TX-DNH	4FSK	CH <sub>H2</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 479.987500 MHz   Center Freq: 479.987500 MHz   Radio Std: None</p> <p>Ref 39.84 dBm</p> <p>Occupied Bandwidth: 6.855 kHz   Total Power: 43.1 dBm</p> <p>Transmit Freq Error: -135 Hz   OBW Power: 99.00 %</p> <p>x dB Bandwidth: 8.942 kHz   x dB: -26.00 dB</p>

Appendix B:Occupied Bandwidth

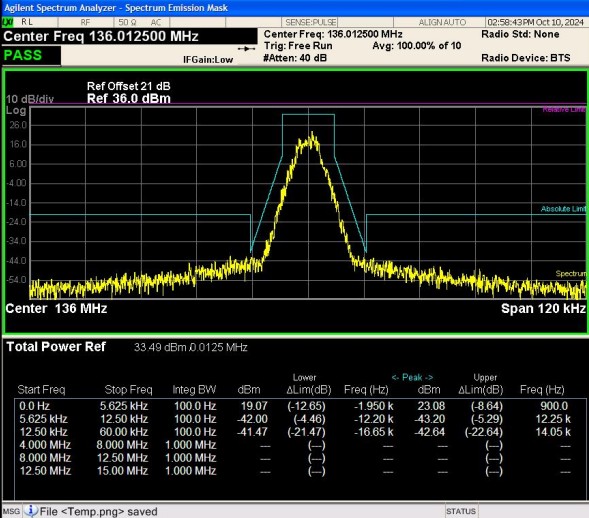
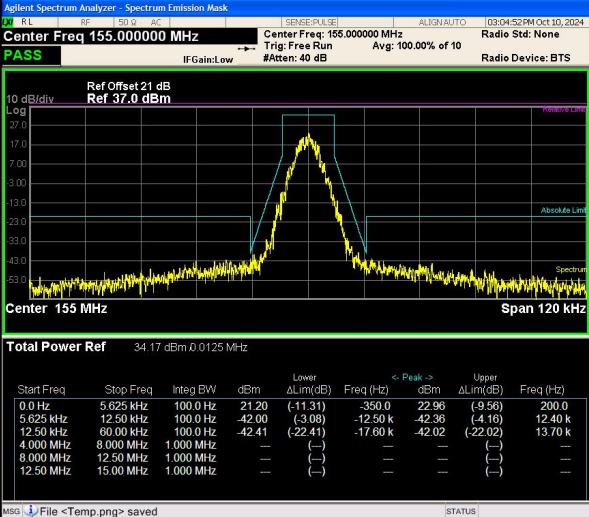
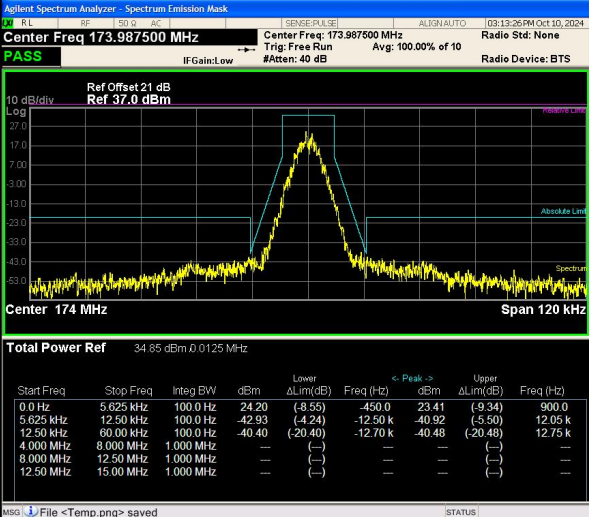
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH <sub>L2</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 400.012500 MHz   SENSE:PULSE   ALIGN:AUTO   03:38:26PM Oct 10, 2024</p> <p>Center Freq: 400.012500 MHz   Center Freq: 400.012500 MHz   Radio Std: None</p> <p>Trig: Free Run   AvgHold: &gt;10/10</p> <p>#IF Gain: Low   #Atten: 24 dB   Radio Device: BTS</p> <p>10 dB/div   Ref 35.17 dBm</p> <p>Center 400 MHz   #Res BW 100 Hz   #VBW 300 Hz   Span 50 kHz   Sweep FFT</p> <p>Occupied Bandwidth: 6.823 kHz   Total Power: 38.4 dBm</p> <p>Transmit Freq Error: -102 Hz   OBW Power: 99.00 %</p> <p>x dB Bandwidth: 8.875 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> <p>STATUS: DC Coupled</p>
TX-DNL	4FSK	CH <sub>M2</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 435.000000 MHz   SENSE:PULSE   ALIGN:AUTO   03:38:26PM Oct 10, 2024</p> <p>Center Freq: 435.000000 MHz   Center Freq: 435.000000 MHz   Radio Std: None</p> <p>Trig: Free Run   AvgHold: &gt;10/10</p> <p>#IF Gain: Low   #Atten: 22 dB   Radio Device: BTS</p> <p>10 dB/div   Ref 32.83 dBm</p> <p>Center 435 MHz   #Res BW 100 Hz   #VBW 300 Hz   Span 50 kHz   Sweep FFT</p> <p>Occupied Bandwidth: 6.776 kHz   Total Power: 36.0 dBm</p> <p>Transmit Freq Error: -18 Hz   OBW Power: 99.00 %</p> <p>x dB Bandwidth: 8.926 kHz   x dB: -26.00 dB</p> <p>Frequency: 435.000000 MHz</p> <p>Center Freq: 435.000000 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p> <p>STATUS: DC Coupled</p>
TX-DNL	4FSK	CH <sub>H2</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 479.987500 MHz   SENSE:PULSE   ALIGN:AUTO   03:47:24PM Oct 10, 2024</p> <p>Center Freq: 479.987500 MHz   Center Freq: 479.987500 MHz   Radio Std: None</p> <p>Trig: Free Run   AvgHold: &gt;10/10</p> <p>#IF Gain: Low   #Atten: 24 dB   Radio Device: BTS</p> <p>10 dB/div   Ref 34.59 dBm</p> <p>Center 480 MHz   #Res BW 100 Hz   #VBW 300 Hz   Span 50 kHz   Sweep FFT</p> <p>Occupied Bandwidth: 6.865 kHz   Total Power: 37.5 dBm</p> <p>Transmit Freq Error: -121 Hz   OBW Power: 99.00 %</p> <p>x dB Bandwidth: 8.911 kHz   x dB: -26.00 dB</p> <p>Frequency: 479.987500 MHz</p> <p>Center Freq: 479.987500 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p> <p>STATUS: DC Coupled</p>

Appendix C:Emission Mask

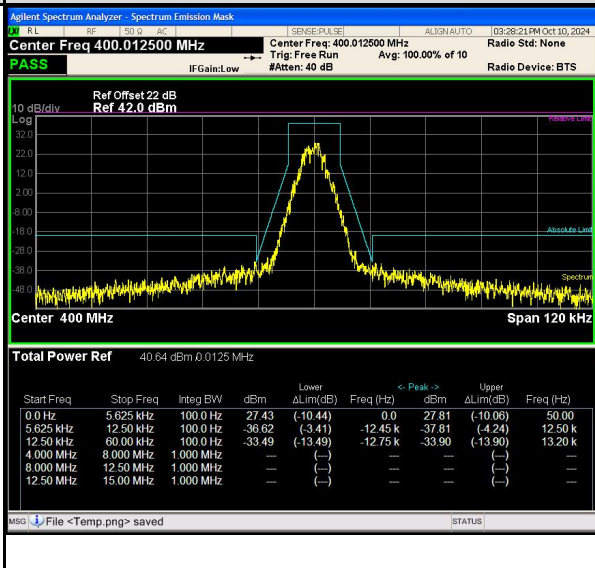
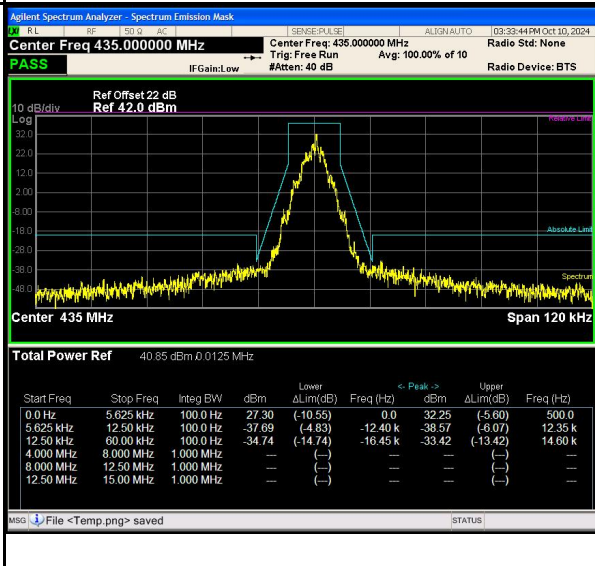
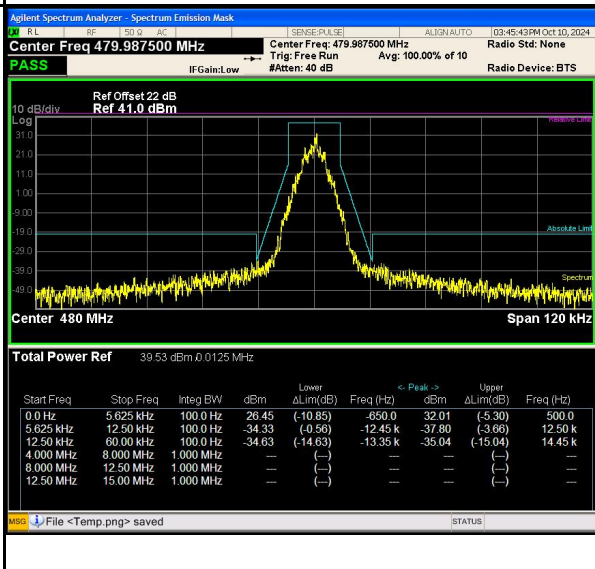
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH <sub>L1</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 136.012500 MHz    Center Freq: 136.012500 MHz    Radio Std: None</p> <p>PASS    IF Gain: Low    #Atten: 40 dB    Avg: 100.00% of 10    Radio Device: BTS</p> <p>Ref Offset 21 dB    Ref 42.0 dBm</p> <p>10 dB/div    Log    Span 120 kHz</p> <p>Center 136 MHz</p> <p>Total Power Ref    39.92 dBm @ 0.125 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>27.76</td> <td>(-10.40)</td> <td>-450.0</td> <td>30.54</td> <td>(-7.82)</td> <td>600.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-36.04</td> <td>(-3.86)</td> <td>-12.35 k</td> <td>-36.01</td> <td>(-3.47)</td> <td>12.40 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>-14.95 k</td> <td>-36.44</td> <td>(-16.44)</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	27.76	(-10.40)	-450.0	30.54	(-7.82)	600.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.04	(-3.86)	-12.35 k	-36.01	(-3.47)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.90	(-14.90)	-14.95 k	-36.44	(-16.44)	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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TX-DNH	4FSK	CH <sub>H1</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 173.987500 MHz    Center Freq: 173.987500 MHz    Radio Std: None</p> <p>PASS    IF Gain: Low    #Atten: 40 dB    Avg: 100.00% of 10    Radio Device: BTS</p> <p>Ref Offset 21 dB    Ref 43.0 dBm</p> <p>10 dB/div    Log    Span 120 kHz</p> <p>Center 174 MHz</p> <p>Total Power Ref    40.16 dBm @ 0.125 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>27.48</td> <td>(-11.04)</td> <td>-150.0</td> <td>31.03</td> <td>(-7.49)</td> <td>550.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-35.44</td> <td>(-6.52)</td> <td>-11.95 k</td> <td>-34.78</td> <td>(-2.59)</td> <td>12.40 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-35.20</td> <td>(-15.20)</td> <td>-12.85 k</td> <td>-33.70</td> <td>(-13.70)</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)	Freq (Hz)	Peak → dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	27.48	(-11.04)	-150.0	31.03	(-7.49)	550.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.44	(-6.52)	-11.95 k	-34.78	(-2.59)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.20	(-15.20)	-12.85 k	-33.70	(-13.70)	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 <sub>L1</sub>	 <p><b>Agilent Spectrum Analyzer - Spectrum Emission Mask</b></p> <p>Center Freq: 136.012500 MHz   Center Freq: 136.012500 MHz   Radio Std: None</p> <p>Trig: Free Run   Avg: 100.00% of 10</p> <p>IF Gain: Low   #Atten: 40 dB   Radio Device: BTS</p> <p>Ref Offset: 21 dB   Ref: 36.0 dBm</p> <p>10 dB/div   Log   Span: 120 kHz   Center: 136 MHz</p> <p>Total Power Ref: 33.49 dBm @ 0.125 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>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>-19.07</td> <td>(-12.65)</td> <td>-1.950 k</td> <td>23.08</td> <td>(8.64)</td> <td>900.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-42.00</td> <td>(-4.46)</td> <td>-12.20 k</td> <td>-43.20</td> <td>(-5.29)</td> <td>12.25 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-41.47</td> <td>(-21.47)</td> <td>-16.65 k</td> <td>-42.64</td> <td>(-22.64)</td> <td>14.05 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table> <p>Frequency: 136.012500 MHz</p> <p>Center Freq: 136.012500 MHz</p> <p>CF Step: 12.000 kHz</p> <p>Freq Offset: 0 Hz</p>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	-19.07	(-12.65)	-1.950 k	23.08	(8.64)	900.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.00	(-4.46)	-12.20 k	-43.20	(-5.29)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.47	(-21.47)	-16.65 k	-42.64	(-22.64)	14.05 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 <sub>M1</sub>	 <p><b>Agilent Spectrum Analyzer - Spectrum Emission Mask</b></p> <p>Center Freq: 155.000000 MHz   Center Freq: 155.000000 MHz   Radio Std: None</p> <p>Trig: Free Run   Avg: 100.00% of 10</p> <p>IF Gain: Low   #Atten: 40 dB   Radio Device: BTS</p> <p>Ref Offset: 21 dB   Ref: 37.0 dBm</p> <p>10 dB/div   Log   Span: 120 kHz   Center: 155 MHz</p> <p>Total Power Ref: 34.17 dBm @ 0.125 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>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>21.20</td> <td>(-11.31)</td> <td>-350.0</td> <td>22.96</td> <td>(-9.56)</td> <td>200.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-42.00</td> <td>(-3.08)</td> <td>-12.50 k</td> <td>-42.36</td> <td>(-4.16)</td> <td>12.40 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-42.41</td> <td>(-22.41)</td> <td>-17.60 k</td> <td>-42.02</td> <td>(-22.02)</td> <td>13.70 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> <p>Frequency: 155.000000 MHz</p> <p>Center Freq: 155.000000 MHz</p> <p>CF Step: 12.000 kHz</p> <p>Freq Offset: 0 Hz</p>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	21.20	(-11.31)	-350.0	22.96	(-9.56)	200.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.00	(-3.08)	-12.50 k	-42.36	(-4.16)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.41	(-22.41)	-17.60 k	-42.02	(-22.02)	13.70 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNL	4FSK	CH <sub>H1</sub>	 <p><b>Agilent Spectrum Analyzer - Spectrum Emission Mask</b></p> <p>Center Freq: 173.987500 MHz   Center Freq: 173.987500 MHz   Radio Std: None</p> <p>Trig: Free Run   Avg: 100.00% of 10</p> <p>IF Gain: Low   #Atten: 40 dB   Radio Device: BTS</p> <p>Ref Offset: 21 dB   Ref: 37.0 dBm</p> <p>10 dB/div   Log   Span: 120 kHz   Center: 174 MHz</p> <p>Total Power Ref: 34.85 dBm @ 0.125 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>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>24.20</td> <td>(-8.55)</td> <td>-450.0</td> <td>23.41</td> <td>(-9.34)</td> <td>900.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-42.93</td> <td>(-4.24)</td> <td>-12.50 k</td> <td>-40.92</td> <td>(-5.50)</td> <td>12.05 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-40.40</td> <td>(-20.40)</td> <td>-12.70 k</td> <td>-40.48</td> <td>(-20.48)</td> <td>12.75 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table> <p>Frequency: 173.987500 MHz</p> <p>Center Freq: 173.987500 MHz</p> <p>CF Step: 12.000 kHz</p> <p>Freq Offset: 0 Hz</p>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	24.20	(-8.55)	-450.0	23.41	(-9.34)	900.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.93	(-4.24)	-12.50 k	-40.92	(-5.50)	12.05 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.40	(-20.40)	-12.70 k	-40.48	(-20.48)	12.75 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH <sub>L2</sub>	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 400.012500 MHz    Center Freq: 400.012500 MHz    Radio Std: None</p> <p>PASS    IF Gain: Low    #Atten: 40 dB    Avg: 100.00% of 10    Radio Device: BTS</p> <p>Ref Offset 22 dB    Ref 42.0 dBm</p> <p>10 dB/div    Log    Span 120 kHz    Center 400 MHz</p> <p>Total Power Ref    40.64 dBm @ 0.125 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>27.43</td> <td>(-10.44)</td> <td>0.0</td> <td>27.81</td> <td>(-10.08)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-36.62</td> <td>(-3.41)</td> <td>-12.45 k</td> <td>-37.81</td> <td>(-4.24)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-33.49</td> <td>(-13.49)</td> <td>-12.75 k</td> <td>-33.90</td> <td>(-13.90)</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> </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	27.43	(-10.44)	0.0	27.81	(-10.08)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-36.62	(-3.41)	-12.45 k	-37.81	(-4.24)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.49	(-13.49)	-12.75 k	-33.90	(-13.90)	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	—	(—)	—	—	(—)	—
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TX-DNH	4FSK	CH <sub>M2</sub>	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 435.000000 MHz    Center Freq: 435.000000 MHz    Radio Std: None</p> <p>PASS    IF Gain: Low    #Atten: 40 dB    Avg: 100.00% of 10    Radio Device: BTS</p> <p>Ref Offset 22 dB    Ref 42.0 dBm</p> <p>10 dB/div    Log    Span 120 kHz    Center 435 MHz</p> <p>Total Power Ref    40.85 dBm @ 0.125 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>27.30</td> <td>(-10.55)</td> <td>0.0</td> <td>32.25</td> <td>(-5.60)</td> <td>500.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-37.69</td> <td>(-4.83)</td> <td>-12.40 k</td> <td>-38.57</td> <td>(-6.07)</td> <td>12.35 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-34.74</td> <td>(-14.74)</td> <td>-16.45 k</td> <td>-33.42</td> <td>(-13.42)</td> <td>14.60 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	27.30	(-10.55)	0.0	32.25	(-5.60)	500.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.69	(-4.83)	-12.40 k	-38.57	(-6.07)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.74	(-14.74)	-16.45 k	-33.42	(-13.42)	14.60 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 <sub>H2</sub>	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 479.987500 MHz    Center Freq: 479.987500 MHz    Radio Std: None</p> <p>PASS    IF Gain: Low    #Atten: 40 dB    Avg: 100.00% of 10    Radio Device: BTS</p> <p>Ref Offset 22 dB    Ref 41.0 dBm</p> <p>10 dB/div    Log    Span 120 kHz    Center 480 MHz</p> <p>Total Power Ref    39.53 dBm @ 0.125 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>26.45</td> <td>(-10.85)</td> <td>-650.0</td> <td>32.01</td> <td>(-5.30)</td> <td>500.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-34.33</td> <td>(-0.56)</td> <td>-12.45 k</td> <td>-37.80</td> <td>(-3.66)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-34.63</td> <td>(-14.63)</td> <td>-13.35 k</td> <td>-35.04</td> <td>(-15.04)</td> <td>14.45 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	26.45	(-10.85)	-650.0	32.01	(-5.30)	500.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.33	(-0.56)	-12.45 k	-37.80	(-3.66)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.63	(-14.63)	-13.35 k	-35.04	(-15.04)	14.45 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

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

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH <sub>L1</sub>	CH <sub>M1</sub>	CH <sub>H1</sub>		
TX-DNH	4FSK	V <sub>N</sub>	-30	-0.055	0.070	0.031	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	-20	-0.052	0.067	0.030	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	-10	-0.057	0.069	0.031	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	0	-0.056	0.068	0.030	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	10	-0.052	0.069	0.031	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	20	-0.052	0.065	0.029	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	30	-0.054	0.067	0.030	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	40	-0.054	0.069	0.031	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	50	-0.055	0.067	0.031	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	-30	0.235	0.376	0.251	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	-20	0.243	0.365	0.235	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	-10	0.248	0.379	0.247	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	0	0.237	0.393	0.244	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	10	0.249	0.372	0.248	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	20	0.228	0.358	0.233	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	30	0.251	0.388	0.234	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	40	0.233	0.388	0.240	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	50	0.250	0.374	0.252	±5.0	PASS

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH <sub>L2</sub>	CH <sub>M2</sub>	CH <sub>H2</sub>		
TX-DNH	4FSK	V <sub>N</sub>	-30	-0.259	-0.240	-0.568	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	-20	-0.237	-0.249	-0.586	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	-10	-0.254	-0.237	-0.555	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	0	-0.242	-0.248	-0.563	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	10	-0.259	-0.252	-0.576	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	20	-0.236	-0.236	-0.535	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	30	-0.240	-0.240	-0.576	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	40	-0.238	-0.239	-0.547	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	50	-0.242	-0.245	-0.582	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	-30	-0.041	-0.034	-0.045	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	-20	-0.042	-0.035	-0.043	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	-10	-0.041	-0.033	-0.044	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	0	-0.041	-0.034	-0.043	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	10	-0.038	-0.034	-0.042	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	20	-0.038	-0.032	-0.041	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	30	-0.039	-0.032	-0.042	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	40	-0.042	-0.034	-0.042	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	50	-0.042	-0.035	-0.043	±5.0	PASS

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

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH <sub>L1</sub>	CH <sub>M1</sub>	CH <sub>H1</sub>		
TX-DNH	4FSK	V <sub>N</sub>	T <sub>N</sub>	-0.052	0.065	0.029	±5.0	PASS
TX-DNH	4FSK	V <sub>L</sub>	T <sub>N</sub>	-0.052	0.066	0.029	±5.0	PASS
TX-DNH	4FSK	V <sub>H</sub>	T <sub>N</sub>	-0.055	0.066	0.029	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	T <sub>N</sub>	0.228	0.358	0.233	±5.0	PASS
TX-DNL	4FSK	V <sub>L</sub>	T <sub>N</sub>	0.230	0.361	0.235	±5.0	PASS
TX-DNL	4FSK	V <sub>H</sub>	T <sub>N</sub>	0.234	0.377	0.235	±5.0	PASS

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH <sub>L2</sub>	CH <sub>M2</sub>	CH <sub>H2</sub>		
TX-DNH	4FSK	V <sub>N</sub>	T <sub>N</sub>	-0.236	-0.236	-0.535	±5.0	PASS
TX-DNH	4FSK	V <sub>L</sub>	T <sub>N</sub>	-0.236	-0.241	-0.536	±5.0	PASS
TX-DNH	4FSK	V <sub>H</sub>	T <sub>N</sub>	-0.241	-0.242	-0.567	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	T <sub>N</sub>	-0.038	-0.032	-0.041	±5.0	PASS
TX-DNL	4FSK	V <sub>L</sub>	T <sub>N</sub>	-0.038	-0.032	-0.041	±5.0	PASS
TX-DNL	4FSK	V <sub>H</sub>	T <sub>N</sub>	-0.039	-0.033	-0.043	±5.0	PASS

Appendix H:Transmitter Frequency Behavior

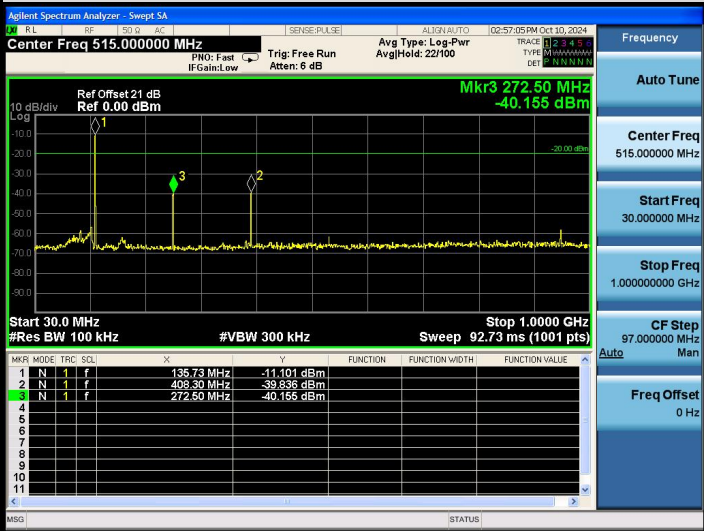
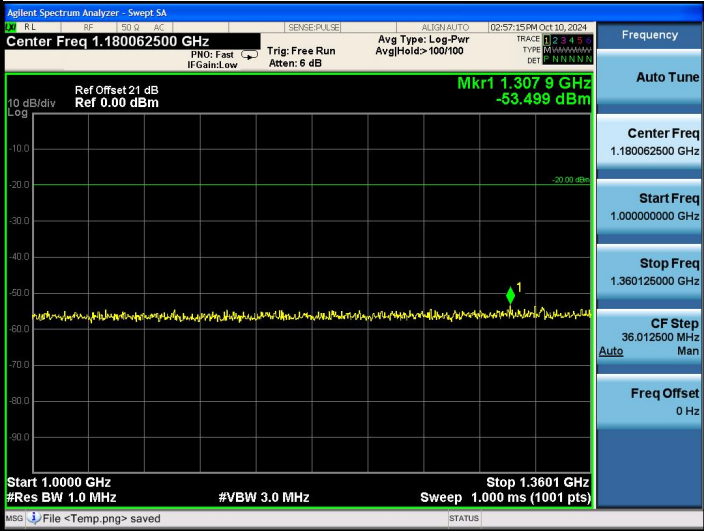
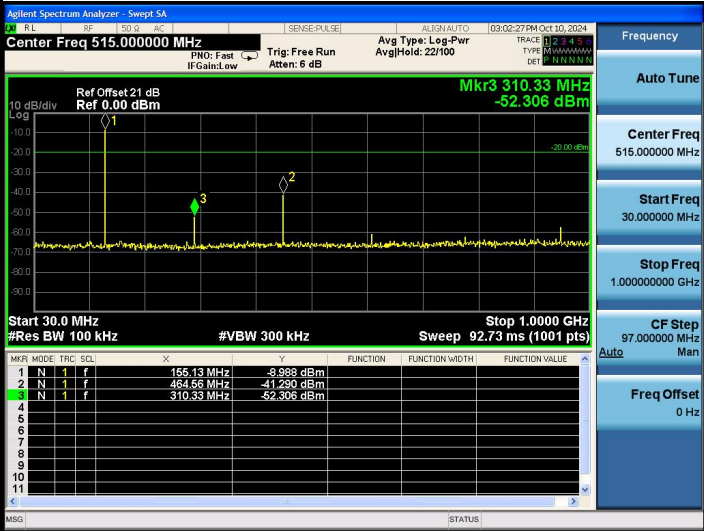
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-DNH	4FSK	CH <sub>M1</sub>	<thead> <tr> <th colspan="2">Carrier Power</th> <th colspan="2">Carrier Offset</th> <th colspan="2">RMS</th> <th colspan="2">Mod. Freq.</th> <th colspan="2">SINAD</th> <th colspan="2">THD</th> </tr> <tr> <th>+Peak</th> <th>-Peak</th> <th>+Peak/2</th> <th>-Peak/2</th> <th>Mod. Freq.</th> <th>SINAD</th> <th>THD</th> <th colspan="5"></th> </tr> </thead> <tbody> <tr> <td>12.832 kHz</td> <td>-12.942 kHz</td> <td>12.887 kHz</td> <td>2.7188 kHz</td> <td>---</td> <td>---</td> <td>---</td> <td colspan="5"></td> </tr> </tbody>	Carrier Power		Carrier Offset		RMS		Mod. Freq.		SINAD		THD		+Peak	-Peak	+Peak/2	-Peak/2	Mod. Freq.	SINAD	THD						12.832 kHz	-12.942 kHz	12.887 kHz	2.7188 kHz	---	---	---					
Carrier Power		Carrier Offset		RMS		Mod. Freq.		SINAD		THD																													
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TX-DNH	4FSK	CH<sub>M1</sub>		Carrier Power		Carrier Offset		RMS		Mod. Freq.		SINAD		THD			---	---	---	---	---	---	---	---	---	---	---	---		+Peak	-Peak	+Peak/2	-Peak/2	Mod. Freq.	SINAD	THD							12.855 kHz	-13.539 kHz	13.197 kHz	2.5872 kHz	---	---	---						
			ON-OFF																																																				
TX-DNH	4FSK	CH<sub>M2</sub>		Carrier Power		Carrier Offset		RMS		Mod. Freq.		SINAD		THD			---	---	---	---	---	---	---	---	---	---	---	---		+Peak	-Peak	+Peak/2	-Peak/2	Mod. Freq.	SINAD	THD							14.55 kHz	-13.638 kHz	14.094 kHz	2.7044 kHz	---	---	---						
			OFF~ON																																																				

**Appendix H:Transmitter Frequency Behavior**

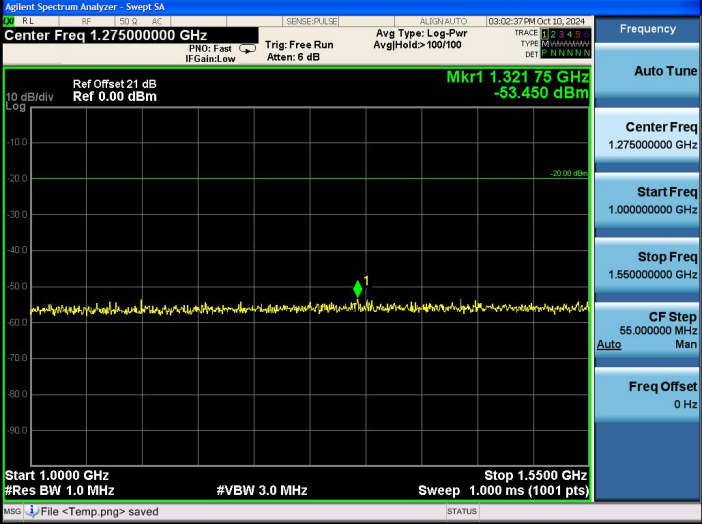
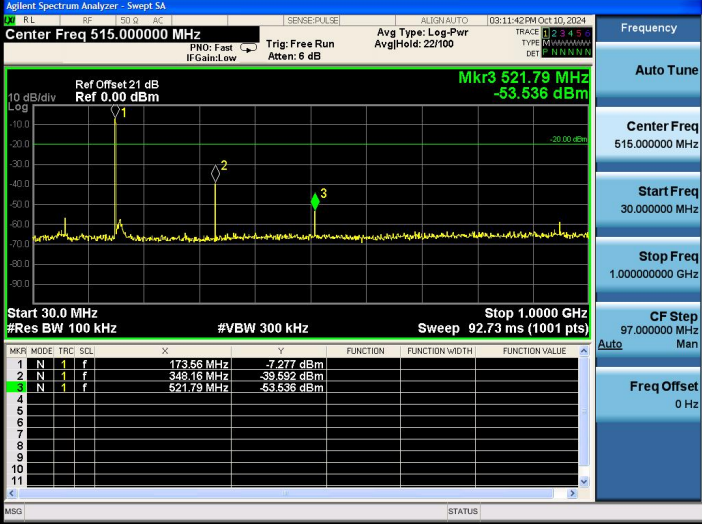
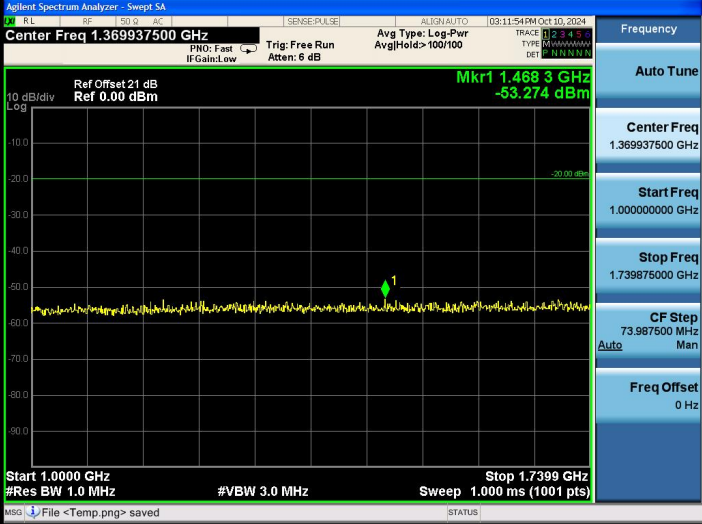
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																
TX-DNH	4FSK	CH <sub>M2</sub>	<p>MultiView Spectrum Analog Demod</p> <p>Ref Level 50.00 dBm Offset 20.50 dB  Att 39 dB AQT 100 ms DBW 25 kHz Freq 435.0 MHz  TRIG:IFEX (17MHz) 105.5years</p> <p>IFM Time Domain LAF ClrW DC Ref:0.00 Hz</p> <p>CF: 435.0 MHz 1001 pts 10.0 ms/</p> <table border="1"> <thead> <tr> <th colspan="4">4 Result Summary</th> <th colspan="3">Carrier Power 41.09 dBm</th> <th colspan="3">Carrier Offset 125.64 Hz</th> </tr> <tr> <th>FM</th> <th>+Peak</th> <th>-Peak</th> <th>±Peak/2</th> <th>RMS</th> <th>Mod. Freq.</th> <th>SINAD</th> <th>THD</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td></td> <td>14.198 kHz</td> <td>-13.541 kHz</td> <td>13.87 kHz</td> <td>2.5231 kHz</td> <td>---</td> <td>---</td> <td>---</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Analog Demod: Waiting for Trigger... Measuring... 12.10.2024 17:56:38</p> <p>Date: 12.OCT.2024 17:56:38</p> <p style="text-align: center;"><b>ON-OFF</b></p>	4 Result Summary				Carrier Power 41.09 dBm			Carrier Offset 125.64 Hz			FM	+Peak	-Peak	±Peak/2	RMS	Mod. Freq.	SINAD	THD					14.198 kHz	-13.541 kHz	13.87 kHz	2.5231 kHz	---	---	---			
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Appendix I:Spurious Emission On Antenna Port

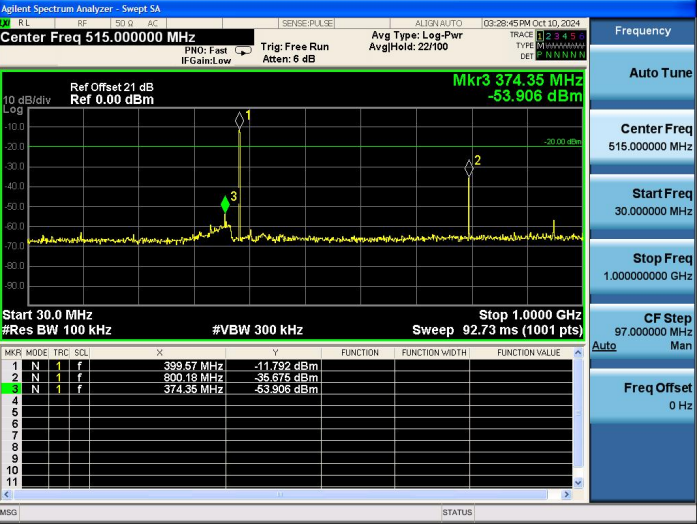
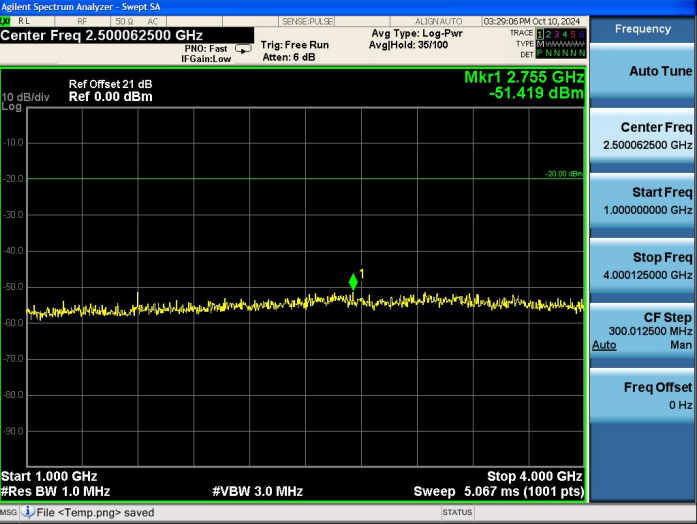
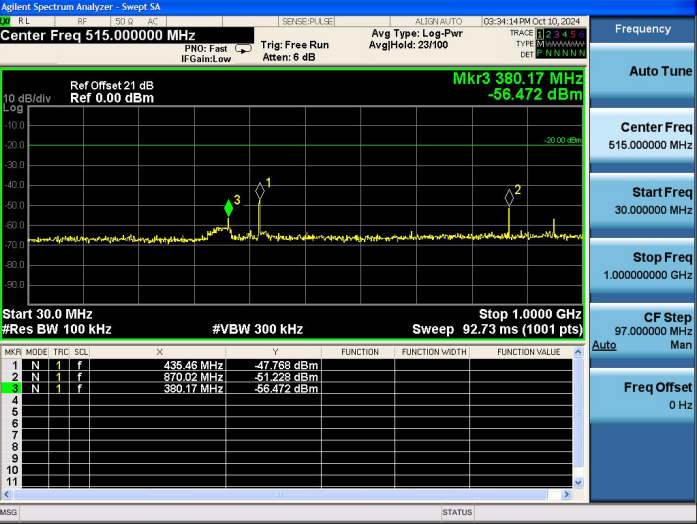
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CHL1	 <p style="text-align: center;"><b>30MHz~1GHz</b></p>
TX-DNH	4FSK	CHL1	 <p style="text-align: center;"><b>1GHz~10th Harmonic</b></p>
TX-DNH	4FSK	CHM1	 <p style="text-align: center;"><b>30MHz~1GHz</b></p>



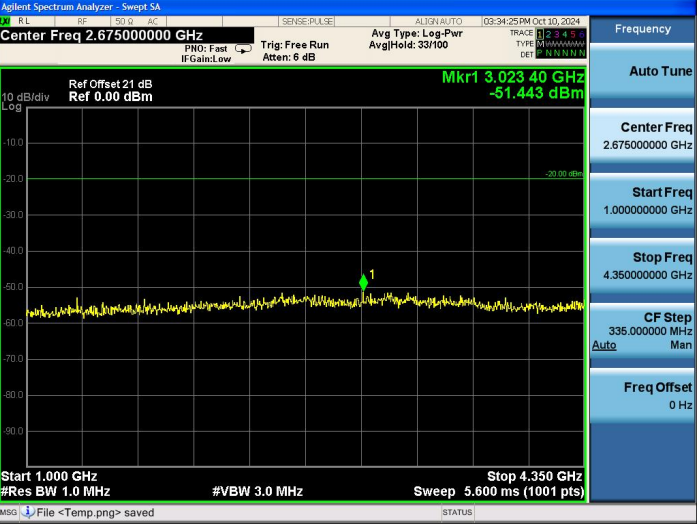
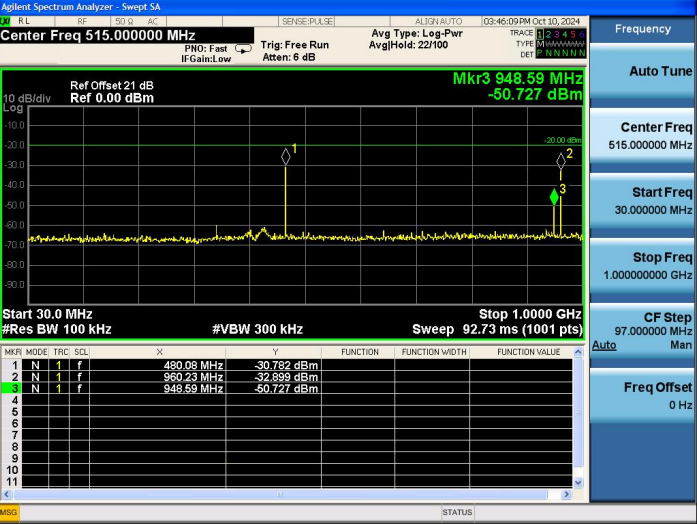

Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																												
TX-DNH	4FSK	CH <sub>M1</sub>	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 1.27500000 GHz Ref Offset 21 dB Ref 0.00 dBm Mkr1 1.321 75 GHz -53.450 dBm Start 1.0000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts)</p> <p>1GHz~10th Harmonic</p>																																																																																																												
TX-DNH	4FSK	CH <sub>H1</sub>	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 21 dB Ref 0.00 dBm Mkr3 521.79 MHz -53.536 dBm Mkr2 498.10 MHz -39.492 dBm Mkr1 173.55 MHz -7.277 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR#</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>173.55 MHz</td> <td>-7.277 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>498.10 MHz</td> <td>-39.492 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>521.79 MHz</td> <td>-53.536 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>9</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>30MHz~1GHz</p>	MKR#	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	173.55 MHz	-7.277 dBm				2	N	1	f	498.10 MHz	-39.492 dBm				3	N	1	f	521.79 MHz	-53.536 dBm				4									5									6									7									8									9									10									11								
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TX-DNH	4FSK	CH <sub>H1</sub>	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 1.369937500 GHz Ref Offset 21 dB Ref 0.00 dBm Mkr1 1.468 3 GHz -53.274 dBm Start 1.0000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts)</p> <p>1GHz~10th Harmonic</p>																																																																																																												

Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH <sub>L2</sub>	 <p style="text-align: center;"><b>30MHz~1GHz</b></p>
TX-DNH	4FSK	CH <sub>L2</sub>	 <p style="text-align: center;"><b>1GHz~10th Harmonic</b></p>
TX-DNH	4FSK	CH <sub>M2</sub>	 <p style="text-align: center;"><b>30MHz~1GHz</b></p>

Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																												
TX-DNH	4FSK	CH <sub>M2</sub>	 <p>Agilent Spectrum Analyzer - Swept SA          Center Freq 2.675000000 GHz          Ref Offset 21 dB          Ref 0.00 dBm          Mkr1 3.023 40 GHz          -51.443 dBm          Start 1.000 GHz          #Res BW 1.0 MHz          #VBW 3.0 MHz          Stop 4.350 GHz          Sweep 5.600 ms (1001 pts)</p> <p>1GHz~10th Harmonic</p>																																																																																																												
TX-DNH	4FSK	CH <sub>H2</sub>	 <p>Agilent Spectrum Analyzer - Swept SA          Center Freq 515.0000000 MHz          Ref Offset 21 dB          Ref 0.00 dBm          Mkr3 948.59 MHz          -50.727 dBm          Start 30.0 MHz          #Res BW 100 kHz          #VBW 300 kHz          Stop 1.000 GHz          Sweep 92.73 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR#</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>480.08 MHz</td> <td>-30.792 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>909.23 MHz</td> <td>-32.839 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>948.59 MHz</td> <td>-50.727 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>9</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>30MHz~1GHz</p>	MKR#	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	480.08 MHz	-30.792 dBm				2	N	1	f	909.23 MHz	-32.839 dBm				3	N	1	f	948.59 MHz	-50.727 dBm				4									5									6									7									8									9									10									11								
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TX-DNH	4FSK	CH <sub>H2</sub>	 <p>Agilent Spectrum Analyzer - Swept SA          Center Freq 2.899937500 GHz          Ref Offset 21 dB          Ref 0.00 dBm          Mkr1 1.441 GHz          -45.835 dBm          Start 1.000 GHz          #Res BW 1.0 MHz          #VBW 3.0 MHz          Stop 4.800 GHz          Sweep 6.333 ms (1001 pts)</p> <p>1GHz~10th Harmonic</p>																																																																																																												

----End of Report----