

Project No.	SHT2305086502EW		
Test sample No.	YPHT23050865003	Model No.	UP405S
Start test date	2023/6/20	Finish date	2023/7/4
Temperature	24.3°C	Humidity	52%
Test Engineer	<i>Casper Chen</i>	Auditor	<i>Xiaodong Zhuo</i>

Appendix clause	Test Item	Test date (M/D)	Test Result (PASS/FAIL)
A	Maximum Transmitter Power	6/29	PASS
B	Occupied Bandwidth	6/29	PASS
C	Emission Mask	6/29	PASS
D	Modulation Limit	6/29	PASS
E	Audio Frequency Response	6/29	PASS
F	Frequency Stability Test & Temperature	6/29	PASS
G	Frequency Stability Test & Voltage	6/29	PASS
H	Transmitter Frequency Behavior	7/4	PASS
I	Spurious Emission On Antenna Port	6/29	PASS

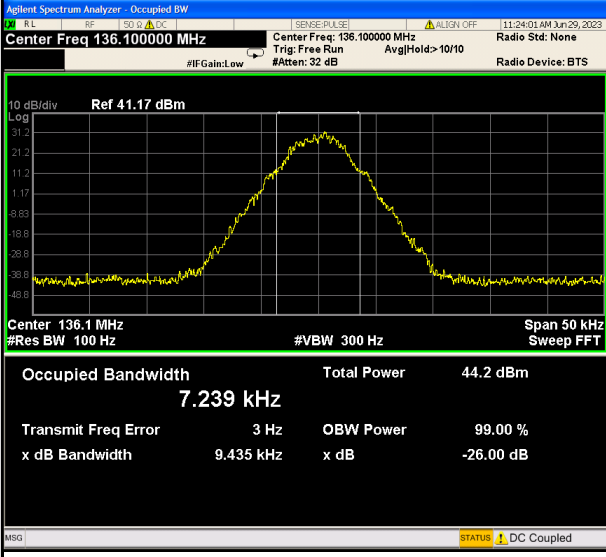
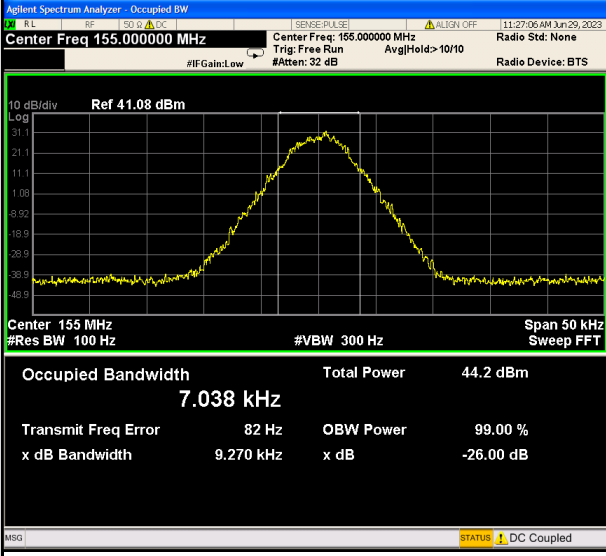
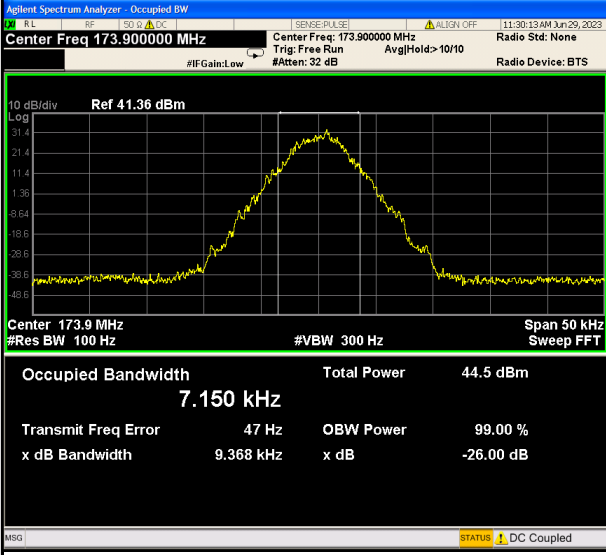
Appendix A:Maximum Transmitter Power

Operation Mode	Modulation Type	Test Channel	Measured Power(dBm)	Rated Power(W)	Percentage(%)	Limit (%)	Result
TX-DNH	4FSK	CH _L	37.0	5.00	-8.80	±20	PASS
TX-DNH	4FSK	CH _M	37.1	5.00	-12.00	±20	PASS
TX-DNH	4FSK	CH _H	37.1	5.00	-6.20	±20	PASS
TX-DNL	4FSK	CH _L	30.0	1.00	0.00	±20	PASS
TX-DNL	4FSK	CH _M	30.2	1.00	6.00	±20	PASS
TX-DNL	4FSK	CH _H	30.1	1.00	1.00	±20	PASS
TX-ANH	FM	CH _L	37.4	5.00	15.00	±20	PASS
TX-ANH	FM	CH _M	37.5	5.00	17.80	±20	PASS
TX-ANH	FM	CH _H	37.5	5.00	15.00	±20	PASS
TX-ANL	FM	CH _L	30.7	1.00	17.00	±20	PASS
TX-ANL	FM	CH _M	30.7	1.00	17.00	±20	PASS
TX-ANL	FM	CH _H	30.7	1.00	17.00	±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 _L	7.239	9.435	≤11.25	PASS
TX-DNH	4FSK	CH _M	7.038	9.270	≤11.25	PASS
TX-DNH	4FSK	CH _H	7.150	9.368	≤11.25	PASS
TX-DNL	4FSK	CH _L	7.110	9.416	≤11.25	PASS
TX-DNL	4FSK	CH _M	7.055	9.260	≤11.25	PASS
TX-DNL	4FSK	CH _H	7.165	9.380	≤11.25	PASS
TX-ANH	FM	CH _L	9.892	10.140	≤11.25	PASS
TX-ANH	FM	CH _M	9.903	10.140	≤11.25	PASS
TX-ANH	FM	CH _H	9.927	10.140	≤11.25	PASS
TX-ANL	FM	CH _L	9.903	10.140	≤11.25	PASS
TX-ANL	FM	CH _M	9.927	10.140	≤11.25	PASS
TX-ANL	FM	CH _H	9.931	10.150	≤11.25	PASS

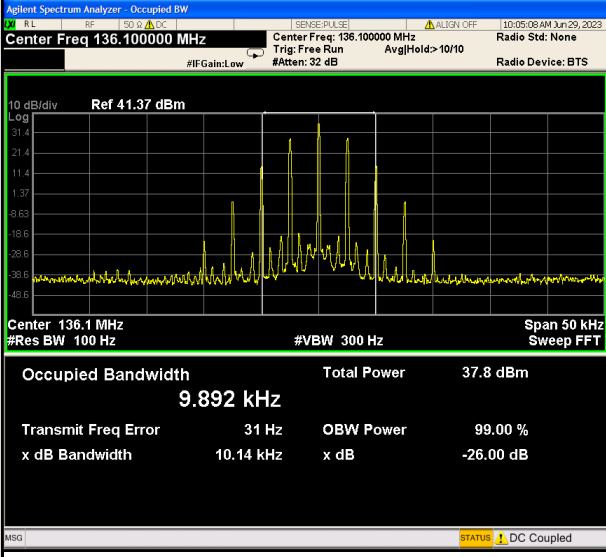
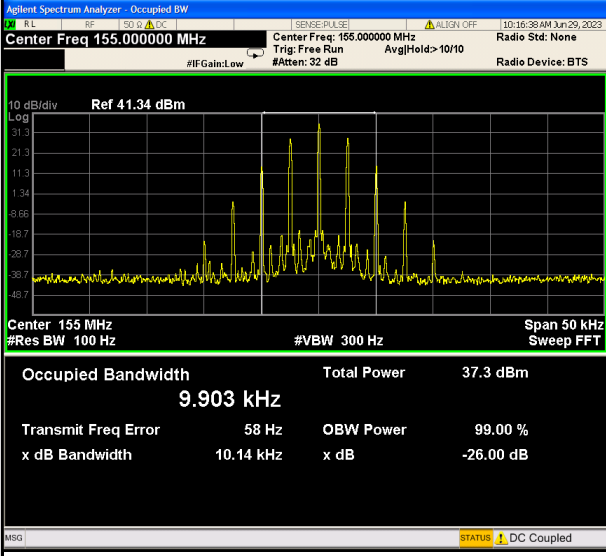
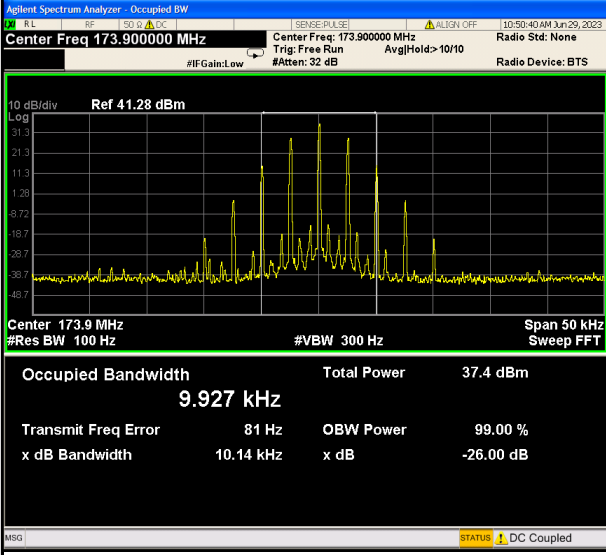
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 136.100000 MHz</p> <p>Center Freq: 136.100000 MHz</p> <p>Trig: Free Run</p> <p>AvgHold>10/10</p> <p>Radio Std: None</p> <p>#IFGain:Low</p> <p>#Atten: 32 dB</p> <p>Radio Device: BTS</p> <p>10 dB/div Ref 41.17 dBm</p> <p>Center 136.1 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 7.239 kHz</p> <p>Total Power 44.2 dBm</p> <p>Transmit Freq Error 3 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 9.435 kHz</p> <p>x dB -26.00 dB</p> <p>STATUS: DC Coupled</p>
TX-DNH	4FSK	CH _M	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 155.000000 MHz</p> <p>Center Freq: 155.000000 MHz</p> <p>Trig: Free Run</p> <p>AvgHold>10/10</p> <p>Radio Std: None</p> <p>#IFGain:Low</p> <p>#Atten: 32 dB</p> <p>Radio Device: BTS</p> <p>10 dB/div Ref 41.08 dBm</p> <p>Center 155 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 7.038 kHz</p> <p>Total Power 44.2 dBm</p> <p>Transmit Freq Error 82 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 9.270 kHz</p> <p>x dB -26.00 dB</p> <p>STATUS: DC Coupled</p>
TX-DNH	4FSK	CH _H	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 173.900000 MHz</p> <p>Center Freq: 173.900000 MHz</p> <p>Trig: Free Run</p> <p>AvgHold>10/10</p> <p>Radio Std: None</p> <p>#IFGain:Low</p> <p>#Atten: 32 dB</p> <p>Radio Device: BTS</p> <p>10 dB/div Ref 41.36 dBm</p> <p>Center 173.9 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 7.150 kHz</p> <p>Total Power 44.5 dBm</p> <p>Transmit Freq Error 47 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 9.368 kHz</p> <p>x dB -26.00 dB</p> <p>STATUS: DC Coupled</p>

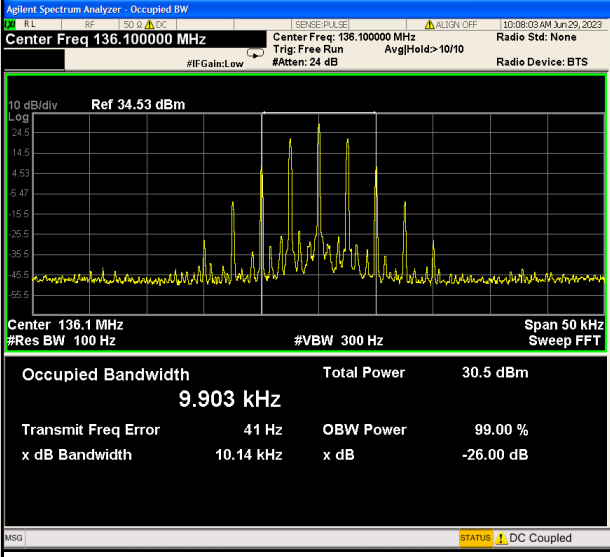
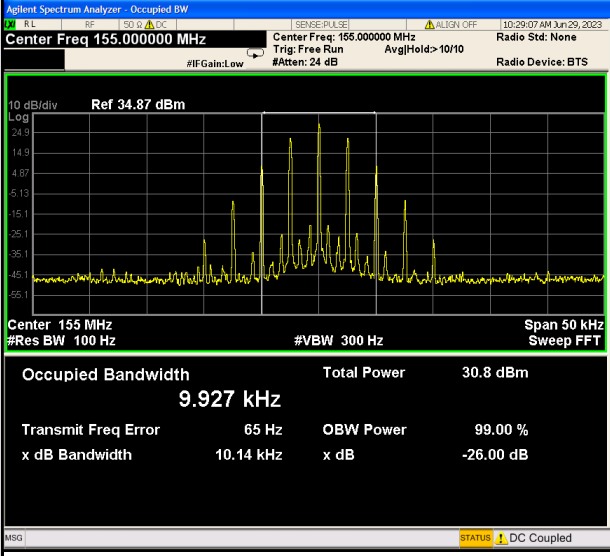
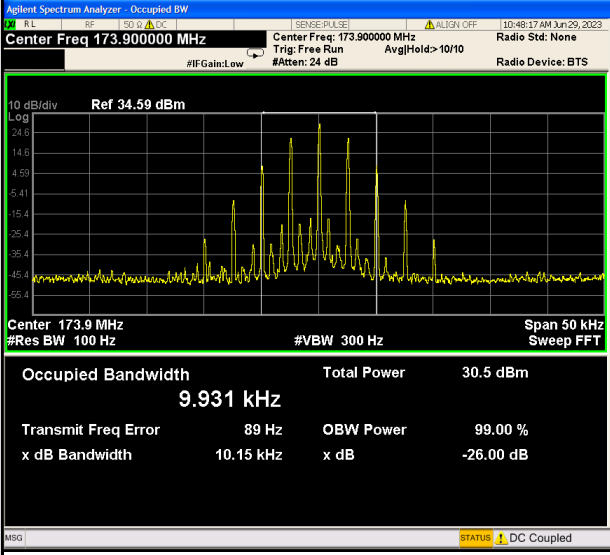
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _L	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 136.100000 MHz</p> <p>Center Freq: 136.100000 MHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: >10/10</p> <p>Radio Std: None</p> <p>#IF Gain: Low</p> <p>#Atten: 24 dB</p> <p>Radio Device: BTS</p> <p>10 dB/div Ref 34.74 dBm</p> <p>Center 136.1 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 7.110 kHz</p> <p>Total Power 37.6 dBm</p> <p>Transmit Freq Error 2 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 9.416 kHz</p> <p>x dB -26.00 dB</p> <p>Frequency 136.100000 MHz</p> <p>Center Freq 136.100000 MHz</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p> <p>STATUS: DC Coupled</p>
TX-DNL	4FSK	CH _M	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 155.000000 MHz</p> <p>Center Freq: 155.000000 MHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: >10/10</p> <p>Radio Std: None</p> <p>#IF Gain: Low</p> <p>#Atten: 26 dB</p> <p>Radio Device: BTS</p> <p>10 dB/div Ref 34.95 dBm</p> <p>Center 155 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 7.055 kHz</p> <p>Total Power 38.0 dBm</p> <p>Transmit Freq Error 40 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 9.260 kHz</p> <p>x dB -26.00 dB</p> <p>Frequency 155.000000 MHz</p> <p>Center Freq 155.000000 MHz</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p> <p>STATUS: DC Coupled</p>
TX-DNL	4FSK	CH _H	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 173.900000 MHz</p> <p>Center Freq: 173.900000 MHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: >10/10</p> <p>Radio Std: None</p> <p>#IF Gain: Low</p> <p>#Atten: 24 dB</p> <p>Radio Device: BTS</p> <p>10 dB/div Ref 34.75 dBm</p> <p>Center 173.9 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 7.165 kHz</p> <p>Total Power 37.8 dBm</p> <p>Transmit Freq Error 137 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 9.380 kHz</p> <p>x dB -26.00 dB</p> <p>Frequency 173.900000 MHz</p> <p>Center Freq 173.900000 MHz</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p> <p>STATUS: DC Coupled</p>

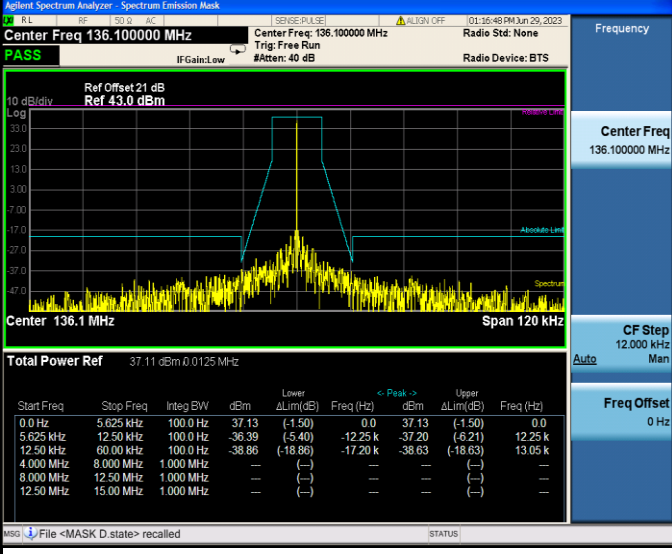
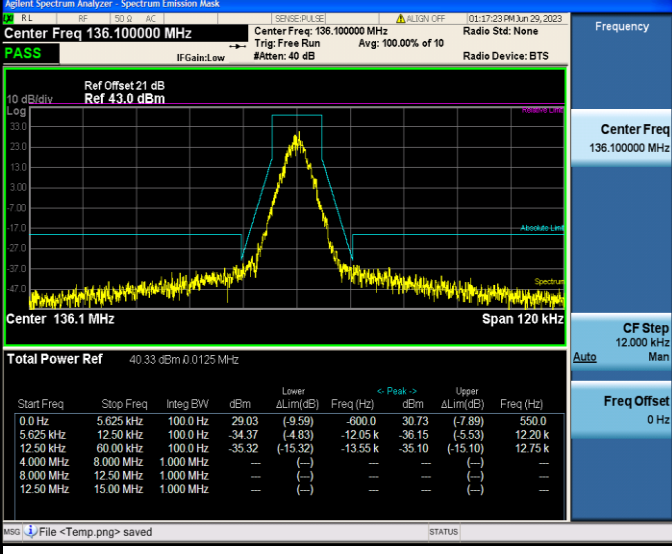
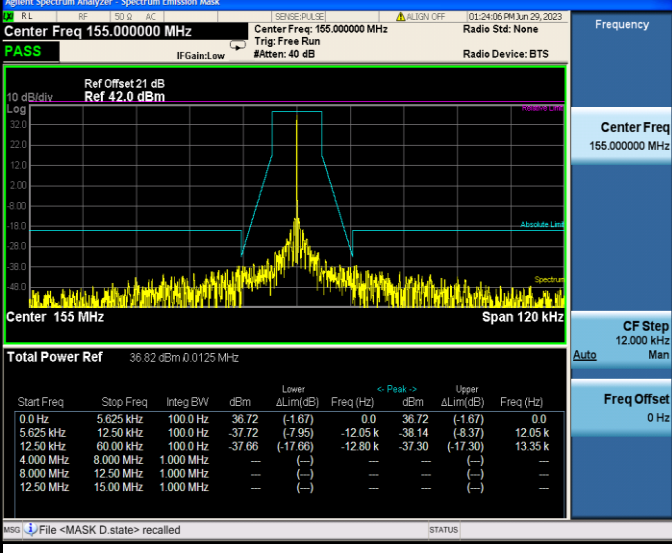
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _L	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 136.100000 MHz</p> <p>Center Freq: 136.100000 MHz</p> <p>Trig: Free Run</p> <p>AvgHold>10/10</p> <p>Radio Std: None</p> <p>#IFGain:Low</p> <p>#Atten: 32 dB</p> <p>Radio Device: BTS</p> <p>10 dB/div Ref 41.37 dBm</p> <p>Center 136.1 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 9.892 kHz</p> <p>Total Power 37.8 dBm</p> <p>Transmit Freq Error 31 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 10.14 kHz</p> <p>x dB -26.00 dB</p> <p>STATUS: DC Coupled</p>
TX-ANH	FM	CH _M	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 155.000000 MHz</p> <p>Center Freq: 155.000000 MHz</p> <p>Trig: Free Run</p> <p>AvgHold>10/10</p> <p>Radio Std: None</p> <p>#IFGain:Low</p> <p>#Atten: 32 dB</p> <p>Radio Device: BTS</p> <p>10 dB/div Ref 41.34 dBm</p> <p>Center 155 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 9.903 kHz</p> <p>Total Power 37.3 dBm</p> <p>Transmit Freq Error 58 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 10.14 kHz</p> <p>x dB -26.00 dB</p> <p>STATUS: DC Coupled</p>
TX-ANH	FM	CH _H	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 173.900000 MHz</p> <p>Center Freq: 173.900000 MHz</p> <p>Trig: Free Run</p> <p>AvgHold>10/10</p> <p>Radio Std: None</p> <p>#IFGain:Low</p> <p>#Atten: 32 dB</p> <p>Radio Device: BTS</p> <p>10 dB/div Ref 41.28 dBm</p> <p>Center 173.9 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 9.927 kHz</p> <p>Total Power 37.4 dBm</p> <p>Transmit Freq Error 81 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 10.14 kHz</p> <p>x dB -26.00 dB</p> <p>STATUS: DC Coupled</p>

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _L	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 136.100000 MHz</p> <p>Center Freq: 136.100000 MHz</p> <p>Trig: Free Run</p> <p>AvgHold>10/10</p> <p>Radio Std: None</p> <p>#IFGain:Low</p> <p>#Atten: 24 dB</p> <p>Radio Device: BTS</p> <p>10 dB/div Ref 34.53 dBm</p> <p>Center 136.1 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 9.903 kHz</p> <p>Total Power 30.5 dBm</p> <p>Transmit Freq Error 41 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 10.14 kHz</p> <p>x dB -26.00 dB</p> <p>Frequency 136.100000 MHz</p> <p>Center Freq 136.100000 MHz</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p> <p>STATUS: DC Coupled</p>
TX-ANL	FM	CH _M	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 155.000000 MHz</p> <p>Center Freq: 155.000000 MHz</p> <p>Trig: Free Run</p> <p>AvgHold>10/10</p> <p>Radio Std: None</p> <p>#IFGain:Low</p> <p>#Atten: 24 dB</p> <p>Radio Device: BTS</p> <p>10 dB/div Ref 34.87 dBm</p> <p>Center 155 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 9.927 kHz</p> <p>Total Power 30.8 dBm</p> <p>Transmit Freq Error 65 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 10.14 kHz</p> <p>x dB -26.00 dB</p> <p>Frequency 155.000000 MHz</p> <p>Center Freq 155.000000 MHz</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p> <p>STATUS: DC Coupled</p>
TX-ANL	FM	CH _H	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 173.900000 MHz</p> <p>Center Freq: 173.900000 MHz</p> <p>Trig: Free Run</p> <p>AvgHold>10/10</p> <p>Radio Std: None</p> <p>#IFGain:Low</p> <p>#Atten: 24 dB</p> <p>Radio Device: BTS</p> <p>10 dB/div Ref 34.59 dBm</p> <p>Center 173.9 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 9.931 kHz</p> <p>Total Power 30.5 dBm</p> <p>Transmit Freq Error 89 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 10.15 kHz</p> <p>x dB -26.00 dB</p> <p>Frequency 173.900000 MHz</p> <p>Center Freq 173.900000 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 _L	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 136.100000 MHz Center Freq: 136.100000 MHz Radio Std: None</p> <p>Ref Offset 21 dB Ref 43.0 dBm</p> <p>Total Power Ref 37.11 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>37.13</td> <td>(-1.50)</td> <td>0.0</td> <td>37.13</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>-36.39</td> <td>(-5.40)</td> <td>-12.25 k</td> <td>-37.20</td> <td>(-6.21)</td> <td>12.25 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-38.86</td> <td>(-18.86)</td> <td>-17.20 k</td> <td>-38.63</td> <td>(-18.63)</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	37.13	(-1.50)	0.0	37.13	(-1.50)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.39	(-5.40)	-12.25 k	-37.20	(-6.21)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.86	(-18.86)	-17.20 k	-38.63	(-18.63)	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	—	(—)	—	—	(—)	—
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	37.13	(-1.50)	0.0	37.13	(-1.50)	0.0																																																										
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _M	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 155.000000 MHz Center Freq: 155.000000 MHz Radio Std: None</p> <p>Ref Offset 21 dB Ref 42.0 dBm</p> <p>Center 155 MHz Span 120 kHz</p> <p>Total Power Ref 40.41 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>28.48</td> <td>(-9.92)</td> <td>250.0</td> <td>29.16</td> <td>(-9.23)</td> <td>550.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-37.10</td> <td>(-4.06)</td> <td>-12.50 k</td> <td>-37.19</td> <td>(-4.88)</td> <td>12.40 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-36.15</td> <td>(-16.15)</td> <td>-14.65 k</td> <td>-35.52</td> <td>(-15.52)</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	28.48	(-9.92)	250.0	29.16	(-9.23)	550.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.10	(-4.06)	-12.50 k	-37.19	(-4.88)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.15	(-16.15)	-14.65 k	-35.52	(-15.52)	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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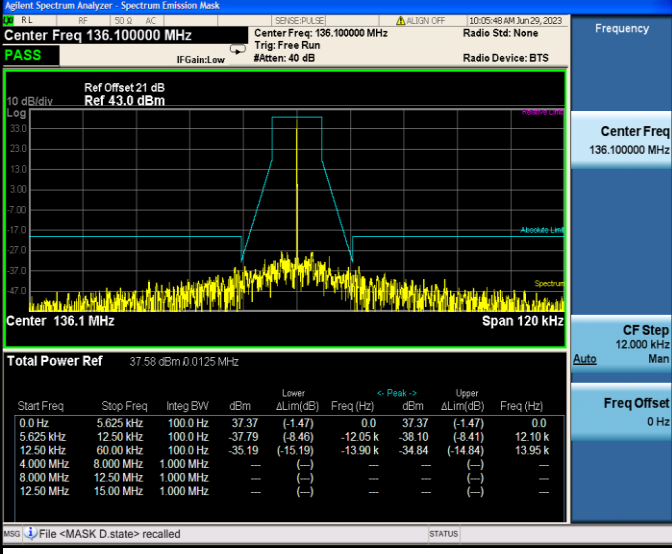
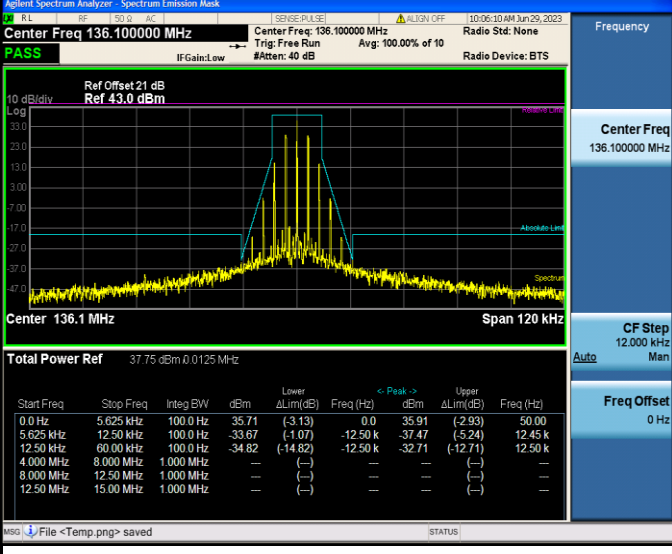
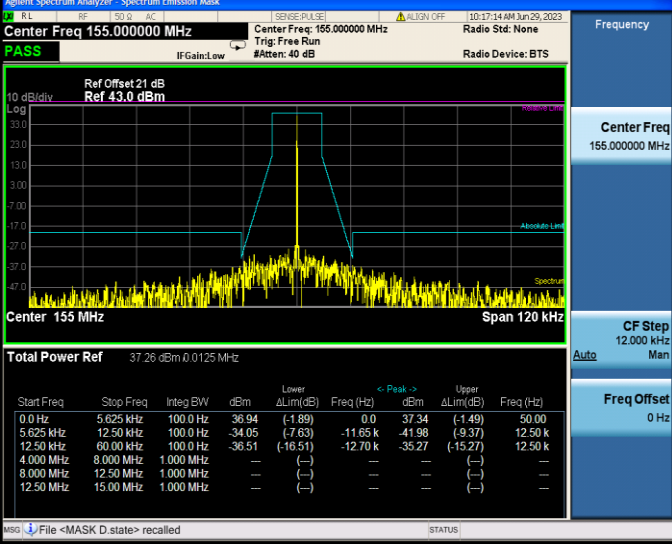
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _L	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 136.100000 MHz</p> <p>Ref Offset 21 dB Ref 36.0 dBm</p> <p>Total Power Ref 30.64 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 kHz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>30.85</td> <td>(-1.48)</td> <td>0.0</td> <td>30.85</td> <td>(-1.48)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-43.27</td> <td>(-4.32)</td> <td>-12.45 k</td> <td>-43.93</td> <td>(-4.83)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-44.21</td> <td>(-24.21)</td> <td>-17.90 k</td> <td>-44.14</td> <td>(-24.14)</td> <td>17.90 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 kHz	5.625 kHz	100.0 Hz	30.85	(-1.48)	0.0	30.85	(-1.48)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.27	(-4.32)	-12.45 k	-43.93	(-4.83)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-44.21	(-24.21)	-17.90 k	-44.14	(-24.14)	17.90 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNL	4FSK	CH _L	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 136.100000 MHz</p> <p>Ref Offset 21 dB Ref 36.0 dBm</p> <p>Total Power Ref 34.14 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 kHz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>21.91</td> <td>(-10.23)</td> <td>-800.0</td> <td>24.44</td> <td>(-7.69)</td> <td>550.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-42.87</td> <td>(-4.66)</td> <td>-12.35 k</td> <td>-39.90</td> <td>(-4.96)</td> <td>11.90 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-41.54</td> <td>(-21.54)</td> <td>-12.70 k</td> <td>-41.58</td> <td>(-21.58)</td> <td>13.65 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 kHz	5.625 kHz	100.0 Hz	21.91	(-10.23)	-800.0	24.44	(-7.69)	550.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.87	(-4.66)	-12.35 k	-39.90	(-4.96)	11.90 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.54	(-21.54)	-12.70 k	-41.58	(-21.58)	13.65 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _M	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq: 155.000000 MHz</p> <p>Ref Offset: 21 dB, Ref: 36.0 dBm</p> <p>Total Power Ref: 34.40 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 kHz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>20.86</td> <td>(-11.38)</td> <td>-200.0</td> <td>24.71</td> <td>(-7.63)</td> <td>500.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-42.28</td> <td>(-4.17)</td> <td>-12.35 k</td> <td>-41.94</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>-41.95</td> <td>(-21.95)</td> <td>-14.10 k</td> <td>-42.07</td> <td>(-22.07)</td> <td>15.00 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak (dBm)	Upper ΔLim(dB)	Freq (Hz)	0.0 kHz	5.625 kHz	100.0 Hz	20.86	(-11.38)	-200.0	24.71	(-7.63)	500.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.28	(-4.17)	-12.35 k	-41.94	(-3.47)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.95	(-21.95)	-14.10 k	-42.07	(-22.07)	15.00 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNL	4FSK	CH _H	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq: 173.900000 MHz</p> <p>Ref Offset: 21 dB, Ref: 36.0 dBm</p> <p>Total Power Ref: 30.57 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 kHz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>30.42</td> <td>(-1.67)</td> <td>0.0</td> <td>30.42</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>-42.61</td> <td>(-5.45)</td> <td>-12.20 k</td> <td>-43.09</td> <td>(-5.93)</td> <td>12.20 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-44.85</td> <td>(-24.85)</td> <td>-12.80 k</td> <td>-44.24</td> <td>(-24.24)</td> <td>17.20 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 kHz	5.625 kHz	100.0 Hz	30.42	(-1.67)	0.0	30.42	(-1.67)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.61	(-5.45)	-12.20 k	-43.09	(-5.93)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-44.85	(-24.85)	-12.80 k	-44.24	(-24.24)	17.20 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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Appendix C:Emission Mask

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TX-ANH	FM	CH _L	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 136.100000 MHz</p> <p>Ref Offset 21 dB Ref 43.0 dBm</p> <p>Center Freq 136.1 MHz</p> <p>Span 120 kHz</p> <p>Total Power Ref 37.58 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>37.37</td> <td>(-1.47)</td> <td>0.0</td> <td>37.37</td> <td>(-1.47)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-37.79</td> <td>(-8.46)</td> <td>-12.05 k</td> <td>-38.10</td> <td>(-8.41)</td> <td>12.10 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-35.19</td> <td>(-15.19)</td> <td>-13.90 k</td> <td>-34.84</td> <td>(-14.84)</td> <td>13.95 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	37.37	(-1.47)	0.0	37.37	(-1.47)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.79	(-8.46)	-12.05 k	-38.10	(-8.41)	12.10 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.19	(-15.19)	-13.90 k	-34.84	(-14.84)	13.95 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

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TX-ANL	FM	CH _L	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 136.100000 MHz</p> <p>Ref Offset 21 dB, Ref 36.0 dBm</p> <p>Total Power Ref 31.03 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>30.48</td> <td>(-1.53)</td> <td>0.0</td> <td>30.49</td> <td>(-1.52)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-45.54</td> <td>(-8.47)</td> <td>-12.45 k</td> <td>-45.89</td> <td>(-6.26)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-43.14</td> <td>(-23.14)</td> <td>-15.15 k</td> <td>-43.35</td> <td>(-23.35)</td> <td>15.20 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </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	30.48	(-1.53)	0.0	30.49	(-1.52)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-45.54	(-8.47)	-12.45 k	-45.89	(-6.26)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.14	(-23.14)	-15.15 k	-43.35	(-23.35)	15.20 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANL	FM	CH _L	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 136.100000 MHz</p> <p>Ref Offset 21 dB, Ref 36.0 dBm</p> <p>Total Power Ref 30.45 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>28.63</td> <td>(-3.38)</td> <td>0.0</td> <td>29.08</td> <td>(-2.93)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-42.57</td> <td>(-3.14)</td> <td>-12.50 k</td> <td>-42.27</td> <td>(-3.21)</td> <td>12.45 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-40.76</td> <td>(-20.76)</td> <td>-14.55 k</td> <td>-41.39</td> <td>(-21.39)</td> <td>15.55 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	28.63	(-3.38)	0.0	29.08	(-2.93)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-42.57	(-3.14)	-12.50 k	-42.27	(-3.21)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.76	(-20.76)	-14.55 k	-41.39	(-21.39)	15.55 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	—	(—)	—	—	(—)	—
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TX-ANL	FM	CH _M	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 155.000000 MHz</p> <p>Ref Offset 21 dB, Ref 36.0 dBm</p> <p>Total Power Ref 31.39 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>30.82</td> <td>(-1.56)</td> <td>0.0</td> <td>30.83</td> <td>(-1.55)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-42.37</td> <td>(-6.58)</td> <td>-12.05 k</td> <td>-43.22</td> <td>(-6.71)</td> <td>12.15 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-40.77</td> <td>(-20.77)</td> <td>-13.20 k</td> <td>-40.32</td> <td>(-20.32)</td> <td>13.30 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	30.82	(-1.56)	0.0	30.83	(-1.55)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-42.37	(-6.58)	-12.05 k	-43.22	(-6.71)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.77	(-20.77)	-13.20 k	-40.32	(-20.32)	13.30 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

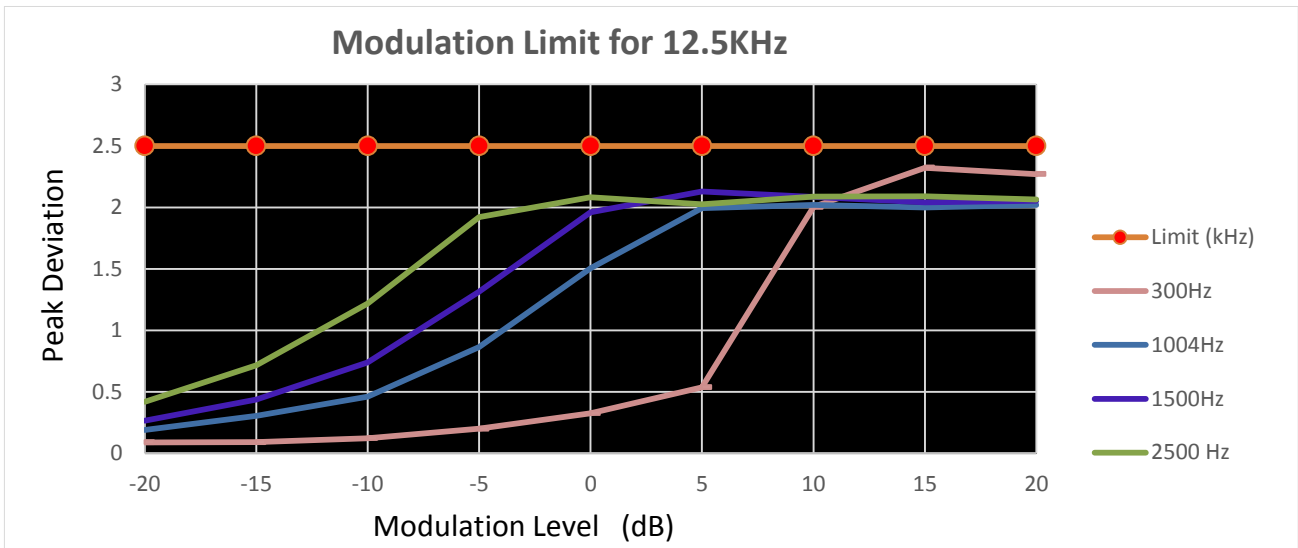
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TX-ANL	FM	CH _M	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 155.000000 MHz Center Freq: 155.000000 MHz Radio Std: None</p> <p>Trig: Free Run #Atten: 40 dB Avg: 100.00% of 10</p> <p>Ref Offset 21 dB Ref 36.0 dBm</p> <p>Center 155 MHz Span 120 kHz</p> <p>Total Power Ref 31.26 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>22.85</td> <td>(-9.53)</td> <td>0.0</td> <td>29.33</td> <td>(-3.05)</td> <td>100.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-40.44</td> <td>(-1.74)</td> <td>-12.45 k</td> <td>-41.85</td> <td>(-4.25)</td> <td>12.30 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-41.21</td> <td>(-21.21)</td> <td>-12.95 k</td> <td>-38.73</td> <td>(-18.73)</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	22.85	(-9.53)	0.0	29.33	(-3.05)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.44	(-1.74)	-12.45 k	-41.85	(-4.25)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.21	(-21.21)	-12.95 k	-38.73	(-18.73)	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 _H	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 173.900000 MHz Center Freq: 173.900000 MHz Radio Std: None</p> <p>Trig: Free Run #Atten: 40 dB Avg: 100.00% of 10</p> <p>Ref Offset 21 dB Ref 43.0 dBm</p> <p>Center 173.9 MHz Span 120 kHz</p> <p>Total Power Ref 37.16 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>36.24</td> <td>(-2.55)</td> <td>0.0</td> <td>37.24</td> <td>(-1.54)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-37.29</td> <td>(-4.64)</td> <td>-12.50 k</td> <td>-41.62</td> <td>(-8.97)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-37.07</td> <td>(-17.07)</td> <td>-14.90 k</td> <td>-37.41</td> <td>(-17.41)</td> <td>15.00 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </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	36.24	(-2.55)	0.0	37.24	(-1.54)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-37.29	(-4.64)	-12.50 k	-41.62	(-8.97)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.07	(-17.07)	-14.90 k	-37.41	(-17.41)	15.00 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										

Appendix D:Modulation Limit

Operation Mode	Modulation Type	Test Channel	Modulation Level (dB)	Peak frequency deviation (kHz)				Limit (kHz)	Result
				300Hz	1004Hz	1500Hz	2500 Hz		
TX-ANH	FM	CH _M	-20	0.090	0.190	0.265	0.419	2.5	PASS
TX-ANH	FM	CH _M	-15	0.091	0.306	0.439	0.716	2.5	PASS
TX-ANH	FM	CH _M	-10	0.124	0.462	0.740	1.219	2.5	PASS
TX-ANH	FM	CH _M	-5	0.200	0.864	1.314	1.921	2.5	PASS
TX-ANH	FM	CH _M	0	0.326	1.504	1.961	2.083	2.5	PASS
TX-ANH	FM	CH _M	5	0.537	1.995	2.128	2.025	2.5	PASS
TX-ANH	FM	CH _M	10	2.004	2.019	2.084	2.088	2.5	PASS
TX-ANH	FM	CH _M	15	2.322	2.000	2.042	2.090	2.5	PASS
TX-ANH	FM	CH _M	20	2.271	2.021	2.053	2.063	2.5	PASS

Appendix D:Modulation Limit

TEST PLOT RESULT

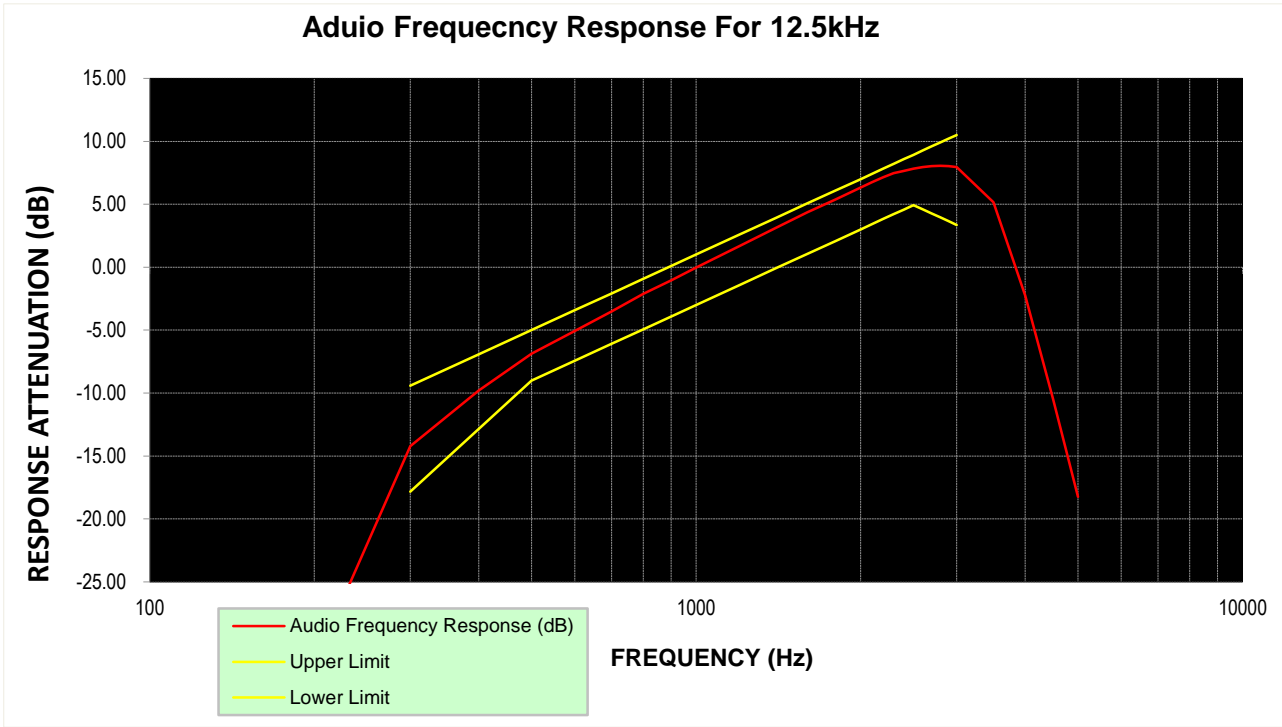


Appendix E:Audio Frequency Response

Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-ANH	FM	CH _M	100	-31.81			PASS
TX-ANH	FM	CH _M	200	-31.53			PASS
TX-ANH	FM	CH _M	300	-14.22	-17.84	-9.42	PASS
TX-ANH	FM	CH _M	400	-9.79	-12.86	-6.93	PASS
TX-ANH	FM	CH _M	500	-6.88	-9.00	-5.00	PASS
TX-ANH	FM	CH _M	600	-5.07	-7.42	-3.42	PASS
TX-ANH	FM	CH _M	700	-3.52	-6.09	-2.09	PASS
TX-ANH	FM	CH _M	800	-2.11	-4.93	-0.93	PASS
TX-ANH	FM	CH _M	900	-1.05	-3.91	0.09	PASS
TX-ANH	FM	CH _M	1000	-0.03	-3.00	1.00	PASS
TX-ANH	FM	CH _M	1200	1.68	-1.42	2.58	PASS
TX-ANH	FM	CH _M	1400	3.12	-0.09	3.91	PASS
TX-ANH	FM	CH _M	1600	4.37	1.07	5.07	PASS
TX-ANH	FM	CH _M	1800	5.39	2.09	6.09	PASS
TX-ANH	FM	CH _M	2000	6.33	3.00	7.00	PASS
TX-ANH	FM	CH _M	2100	6.75	3.42	7.42	PASS
TX-ANH	FM	CH _M	2200	7.15	3.83	7.83	PASS
TX-ANH	FM	CH _M	2300	7.46	4.21	8.21	PASS
TX-ANH	FM	CH _M	2400	7.66	4.58	8.58	PASS
TX-ANH	FM	CH _M	2500	7.82	4.93	8.93	PASS
TX-ANH	FM	CH _M	2600	7.95	4.59	9.27	PASS
TX-ANH	FM	CH _M	2700	8.03	4.27	9.60	PASS
TX-ANH	FM	CH _M	2800	8.05	3.95	9.91	PASS
TX-ANH	FM	CH _M	2900	8.04	3.65	10.22	PASS
TX-ANH	FM	CH _M	3000	7.95	3.35	10.51	PASS
TX-ANH	FM	CH _M	3500	5.17			PASS
TX-ANH	FM	CH _M	4000	-2.24			PASS
TX-ANH	FM	CH _M	4500	-10.47			PASS
TX-ANH	FM	CH _M	5000	-18.24			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 _M		
TX-DNH	4FSK	V _N	-30	-0.120	±5.0	PASS
TX-DNH	4FSK	V _N	20	-0.110	±5.0	PASS
TX-DNH	4FSK	V _N	50	-0.111	±5.0	PASS
TX-DNL	4FSK	V _N	-30	-0.103	±5.0	PASS
TX-DNL	4FSK	V _N	20	-0.097	±5.0	PASS
TX-DNL	4FSK	V _N	50	-0.097	±5.0	PASS
TX-ANH	FM	V _N	-30	0.443	±5.0	PASS
TX-ANH	FM	V _N	20	0.406	±5.0	PASS
TX-ANH	FM	V _N	50	0.417	±5.0	PASS
TX-ANL	FM	V _N	-30	0.312	±5.0	PASS
TX-ANL	FM	V _N	20	0.310	±5.0	PASS
TX-ANL	FM	V _N	50	0.321	±5.0	PASS

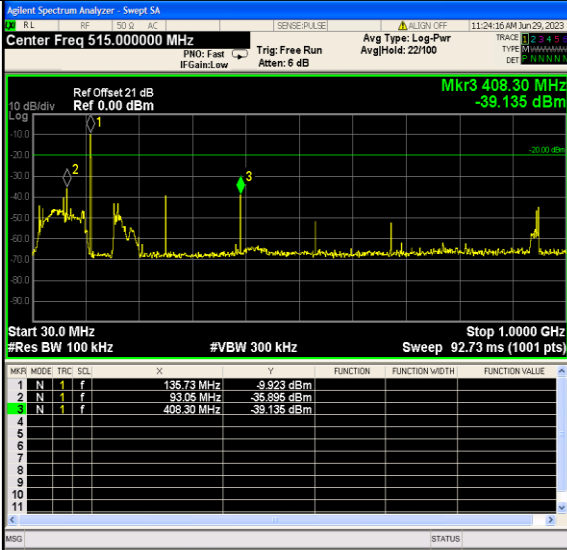
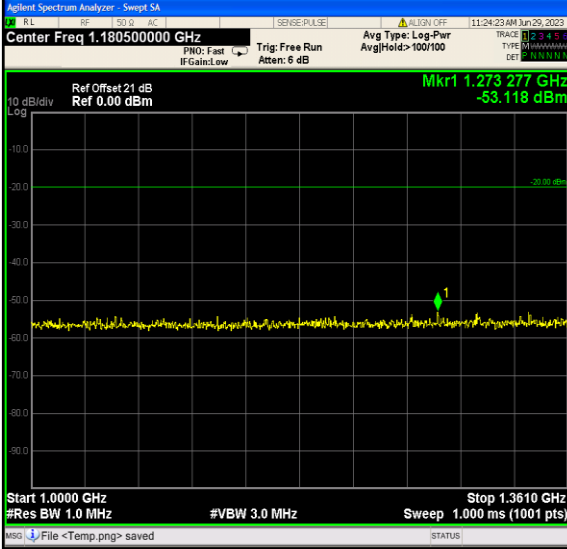
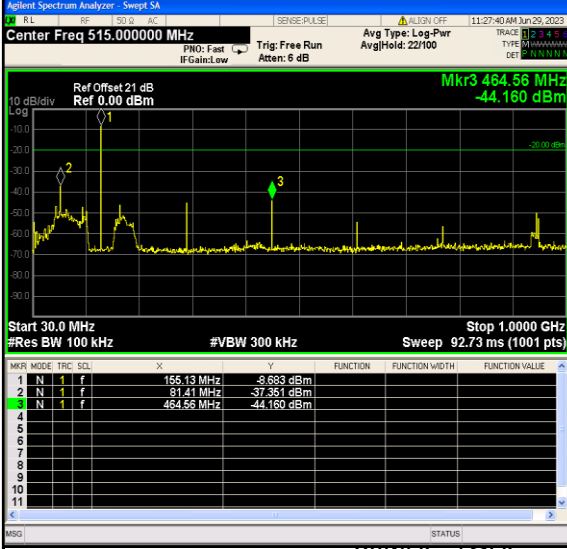
Appendix G:Frequency Stability Test & Voltage

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)	Limit (ppm)	Result
		Voltage	Temperature	CH _M		
TX-DNH	4FSK	V _N	T _N	-0.110	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	-0.116	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	-0.110	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	-0.097	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	-0.103	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	-0.110	±5.0	PASS
TX-ANH	FM	V _N	T _N	0.407	±5.0	PASS
TX-ANH	FM	V _L	T _N	0.381	±5.0	PASS
TX-ANH	FM	V _H	T _N	0.400	±5.0	PASS
TX-ANL	FM	V _N	T _N	0.310	±5.0	PASS
TX-ANL	FM	V _L	T _N	0.271	±5.0	PASS
TX-ANL	FM	V _H	T _N	0.297	±5.0	PASS

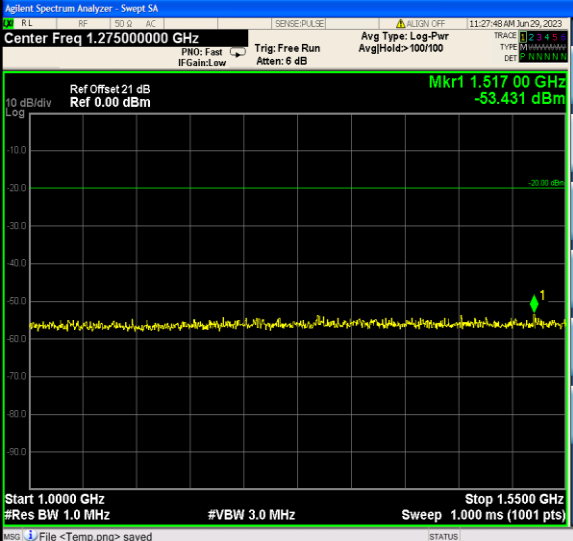
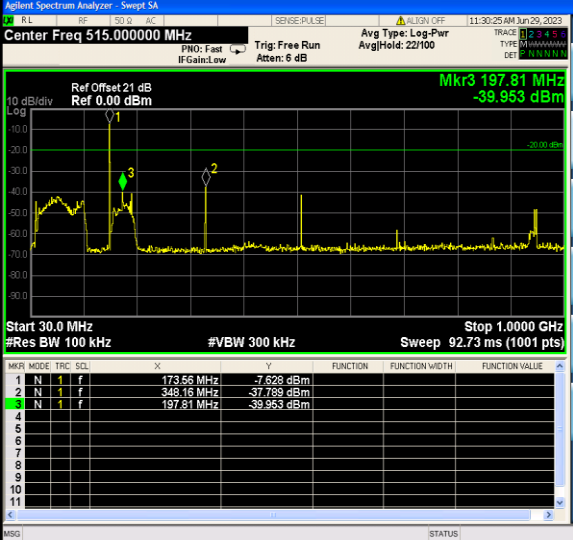
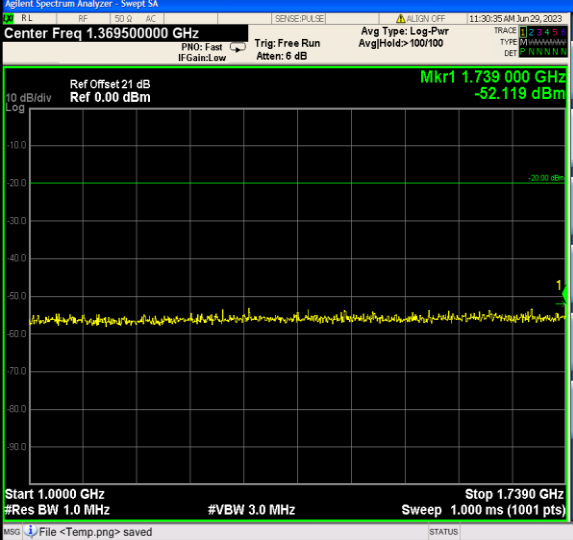
Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _M	
TX-DNH	4FSK	CH _M	
TX-ANH	FM	CH _M	

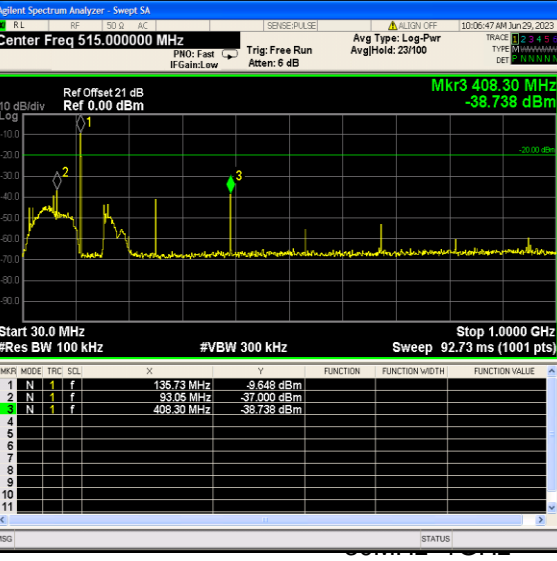
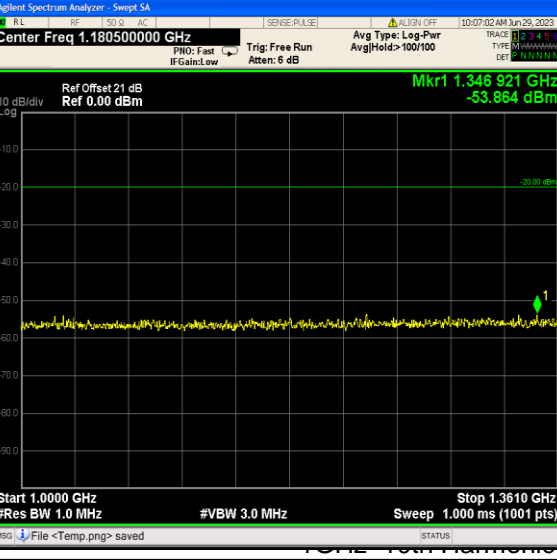
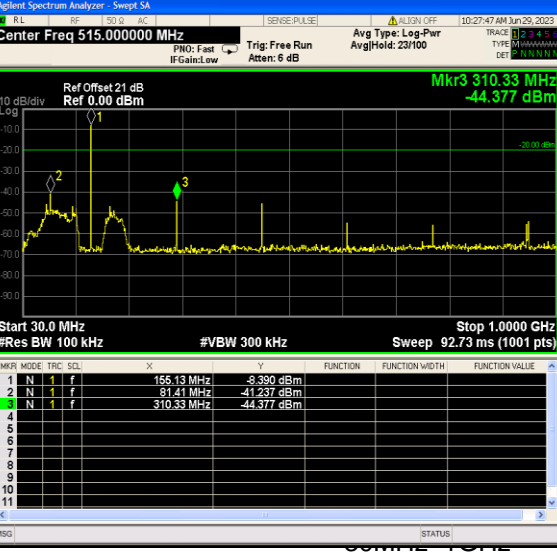
Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-DNH	4FSK	CHL	 <table border="1" data-bbox="596 683 1165 840"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRIG</th> <th>SCN</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>136.73 MHz</td> <td>-9.823 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>83.05 MHz</td> <td>-36.896 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>408.30 MHz</td> <td>-39.135 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRIG	SCN	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	136.73 MHz	-9.823 dBm				2	N	1	f	83.05 MHz	-36.896 dBm				3	N	1	f	408.30 MHz	-39.135 dBm			
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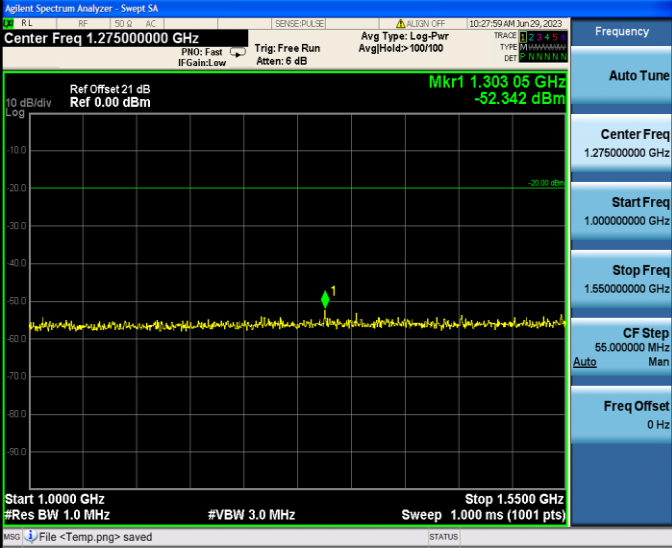
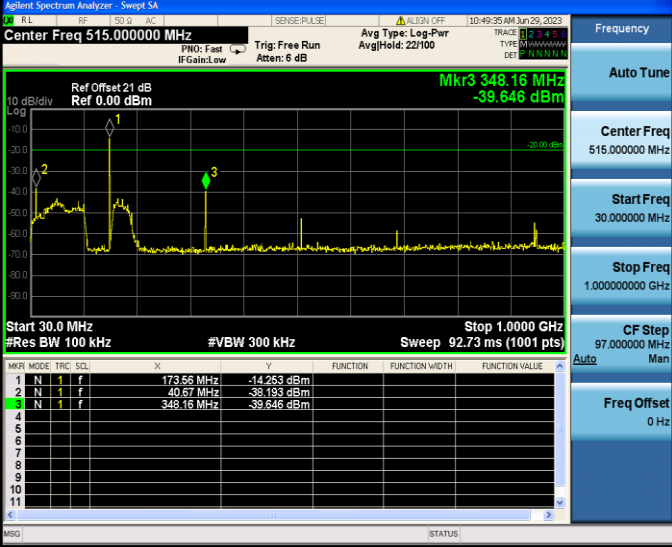
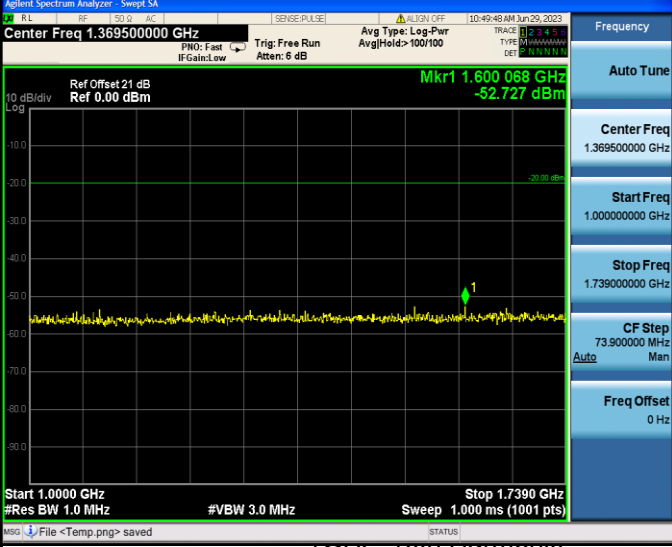
Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-DNH	4FSK	CH _M	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 1.27500000 GHz Ref Offset: 21 dB, Ref 0.00 dBm Mkr1 1.517 00 GHz -53.431 dBm Start 1.0000 GHz, Stop 1.5500 GHz, #VBW 3.0 MHz, Sweep 1.000 ms (1001 pts)</p>																																				
TX-DNH	4FSK	CH _H	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset: 21 dB, Ref 0.00 dBm Mkr3 197.81 MHz -39.953 dBm Start 30.0 MHz, Stop 1.0000 GHz, #Res BW 100 kHz, #VBW 300 kHz, Sweep 92.73 ms (1001 pts)</p> <table border="1" data-bbox="598 1243 1173 1422"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRIG</th> <th>SQ</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>-7.628 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>348.16 MHz</td> <td>-37.782 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>197.81 MHz</td> <td>-39.953 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRIG	SQ	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	173.55 MHz	-7.628 dBm				2	N	1	f	348.16 MHz	-37.782 dBm				3	N	1	f	197.81 MHz	-39.953 dBm			
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TX-DNH	4FSK	CH _H	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 1.36950000 GHz Ref Offset: 21 dB, Ref 0.00 dBm Mkr1 1.739 000 GHz -52.119 dBm Start 1.0000 GHz, Stop 1.7390 GHz, #Res BW 1.0 MHz, #VBW 3.0 MHz, Sweep 1.000 ms (1001 pts)</p>																																				

Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-ANH	FM	CHL	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 21 dB Ref 0.00 dBm Mkr3 408.30 MHz -38.738 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>TRIG</th> <th>SCAL</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>136.73 MHz</td> <td>-9.648 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>83.95 MHz</td> <td>-37.000 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>408.30 MHz</td> <td>-38.738 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRIG	SCAL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	136.73 MHz	-9.648 dBm				2	N	1	f	83.95 MHz	-37.000 dBm				3	N	1	f	408.30 MHz	-38.738 dBm			
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TX-ANH	FM	CHL	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 1.180500000 GHz Ref Offset 21 dB Ref 0.00 dBm Mkr1 1.346 921 GHz -53.864 dBm Start 1.0000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts)</p>																																				
TX-ANH	FM	CH _M	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 21 dB Ref 0.00 dBm Mkr3 310.33 MHz -44.377 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>TRIG</th> <th>SCAL</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>165.13 MHz</td> <td>-8.390 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>31.41 MHz</td> <td>-41.237 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>310.33 MHz</td> <td>-44.377 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRIG	SCAL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	165.13 MHz	-8.390 dBm				2	N	1	f	31.41 MHz	-41.237 dBm				3	N	1	f	310.33 MHz	-44.377 dBm			
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TX-ANH	FM	CH _M	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 1.27500000 GHz Ref Offset: 21 dB, Ref 0.00 dBm Mkr1 1.303 05 GHz -52.342 dBm Start 1.0000 GHz, Stop 1.5500 GHz #Res BW 1.0 MHz, #VBW 3.0 MHz, Sweep 1.000 ms (1001 pts)</p>																																																																																																												
TX-ANH	FM	CH _H	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset: 21 dB, Ref 0.00 dBm Mkr3 348.16 MHz -39.646 dBm Start 30.0 MHz, Stop 1.0000 GHz #Res BW 100 kHz, #VBW 300 kHz, Sweep 92.73 ms (1001 pts)</p> <table border="1" data-bbox="598 1243 1165 1422"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRIG</th> <th>SQ</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>-14.263 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>40.57 MHz</td> <td>-38.493 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>348.16 MHz</td> <td>-39.646 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>	MKR	MODE	TRIG	SQ	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	173.55 MHz	-14.263 dBm				2	N	1	f	40.57 MHz	-38.493 dBm				3	N	1	f	348.16 MHz	-39.646 dBm				4									5									6									7									8									9									10									11								
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