

Project No.	SHT2305026001EW		
Test sample No.	YPHT23050260001	Model No.	RS-569D
Start test date	2023/5/18	Finish date	2023/5/25
Temperature	24.5°C	Humidity	52%
Test Engineer	<i>Chunshui Gu</i>	Auditor	<i>Xiaolong Zhu</i>

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

Appendix A:Maximum Transmitter Power

Operation Mode	Modulation Type	Test Channel	Measured Power (dBm)	Measured Power(W)	Rated Power(W)	Percentage (%)	Limit (%)	Result
TX-DNH	4FSK	CH _{L1}	36.6	4.57	5.00	-8.6	±20	PASS
TX-DNH	4FSK	CH _{M1}	36.6	4.57	5.00	-8.6	±20	PASS
TX-DNH	4FSK	CH _{H1}	36.3	4.27	5.00	-14.6	±20	PASS
TX-DNH	4FSK	CH _{L2}	36.5	4.47	5.00	-10.6	±20	PASS
TX-DNH	4FSK	CH _{M2}	36.3	4.27	5.00	-14.6	±20	PASS
TX-DNH	4FSK	CH _{H2}	36.2	4.17	5.00	-16.6	±20	PASS
TX-DNL	4FSK	CH _{L1}	29.3	0.85	1.00	-15.0	±20	PASS
TX-DNL	4FSK	CH _{M1}	29.2	0.83	1.00	-17.0	±20	PASS
TX-DNL	4FSK	CH _{H1}	29.6	0.91	1.00	-9.0	±20	PASS
TX-DNL	4FSK	CH _{L2}	29.3	0.85	1.00	-15.0	±20	PASS
TX-DNL	4FSK	CH _{M2}	29.5	0.89	1.00	-11.0	±20	PASS
TX-DNL	4FSK	CH _{H2}	29.3	0.85	1.00	-15.0	±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 _{L1}	7.319	9.258	≤11.25	PASS
TX-DNH	4FSK	CH _{M1}	7.363	9.315	≤11.25	PASS
TX-DNH	4FSK	CH _{H1}	7.495	9.282	≤11.25	PASS
TX-DNH	4FSK	CH _{L2}	7.363	9.221	≤11.25	PASS
TX-DNH	4FSK	CH _{M2}	7.567	9.417	≤11.25	PASS
TX-DNH	4FSK	CH _{H2}	7.607	9.473	≤11.25	PASS
TX-DNL	4FSK	CH _{L1}	7.559	9.313	≤11.25	PASS
TX-DNL	4FSK	CH _{M1}	7.454	9.517	≤11.25	PASS
TX-DNL	4FSK	CH _{H1}	7.550	9.336	≤11.25	PASS
TX-DNL	4FSK	CH _{L2}	7.406	9.218	≤11.25	PASS
TX-DNL	4FSK	CH _{M2}	7.565	9.389	≤11.25	PASS
TX-DNL	4FSK	CH _{H2}	7.715	9.648	≤11.25	PASS

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{L1}	<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>#IFGain:Low</p> <p>#Atten: 32 dB</p> <p>Radio Device: BTS</p> <p>10 dB/div Ref 41.43 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 7.319 kHz</p> <p>Total Power 44.5 dBm</p> <p>Transmit Freq Error 12 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 9.258 kHz</p> <p>x dB -26.00 dB</p> <p>Frequency</p> <p>Center Freq 136.100000 MHz</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p>
TX-DNH	4FSK	CH _{M1}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 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>#IFGain:Low</p> <p>#Atten: 32 dB</p> <p>Radio Device: BTS</p> <p>10 dB/div Ref 41.39 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 7.363 kHz</p> <p>Total Power 44.0 dBm</p> <p>Transmit Freq Error -91 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 9.315 kHz</p> <p>x dB -26.00 dB</p> <p>Frequency</p> <p>Center Freq 155.000000 MHz</p> <p>CF Step 5.000 kHz</p> <p>Freq Offset 0 Hz</p>
TX-DNH	4FSK	CH _{H1}	<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>#IFGain:Low</p> <p>#Atten: 32 dB</p> <p>Radio Device: BTS</p> <p>10 dB/div Ref 41.22 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 7.495 kHz</p> <p>Total Power 43.9 dBm</p> <p>Transmit Freq Error -69 Hz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 9.282 kHz</p> <p>x dB -26.00 dB</p> <p>Frequency</p> <p>Center Freq 173.900000 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 _{L2}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 400.100000 MHz</p> <p>Occupied Bandwidth: 7.363 kHz</p> <p>Total Power: 43.4 dBm</p> <p>Transmit Freq Error: -63 Hz</p> <p>x dB Bandwidth: 9.221 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB: -26.00 dB</p>
TX-DNH	4FSK	CH _{M2}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 435.000000 MHz</p> <p>Occupied Bandwidth: 7.567 kHz</p> <p>Total Power: 43.6 dBm</p> <p>Transmit Freq Error: -58 Hz</p> <p>x dB Bandwidth: 9.417 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB: -26.00 dB</p>
TX-DNH	4FSK	CH _{H2}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 469.900000 MHz</p> <p>Occupied Bandwidth: 7.607 kHz</p> <p>Total Power: 43.2 dBm</p> <p>Transmit Freq Error: -62 Hz</p> <p>x dB Bandwidth: 9.473 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB: -26.00 dB</p>

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _{L1}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 136.100000 MHz</p> <p>Occupied Bandwidth 7.550 kHz</p> <p>Total Power 38.1 dBm</p> <p>Transmit Freq Error 7 Hz</p> <p>x dB Bandwidth 9.336 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB -26.00 dB</p>
TX-DNL	4FSK	CH _{M1}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 155.000000 MHz</p> <p>Occupied Bandwidth 7.559 kHz</p> <p>Total Power 37.8 dBm</p> <p>Transmit Freq Error -94 Hz</p> <p>x dB Bandwidth 9.313 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB -26.00 dB</p>
TX-DNL	4FSK	CH _{H1}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 173.900000 MHz</p> <p>Occupied Bandwidth 7.454 kHz</p> <p>Total Power 38.7 dBm</p> <p>Transmit Freq Error -100 Hz</p> <p>x dB Bandwidth 9.517 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB -26.00 dB</p>

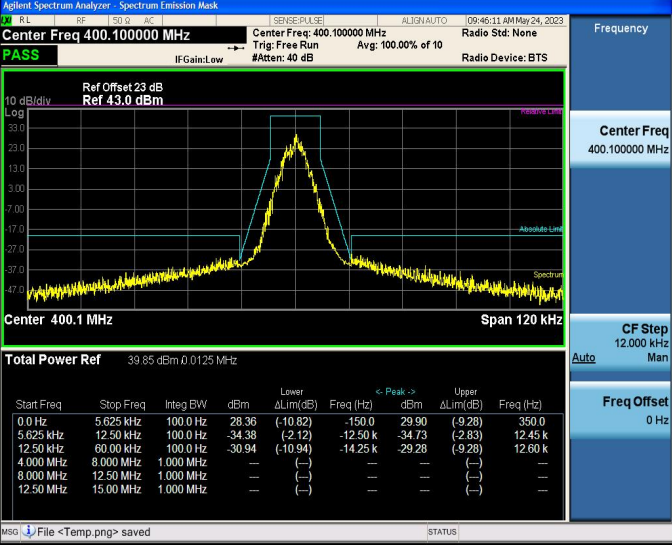
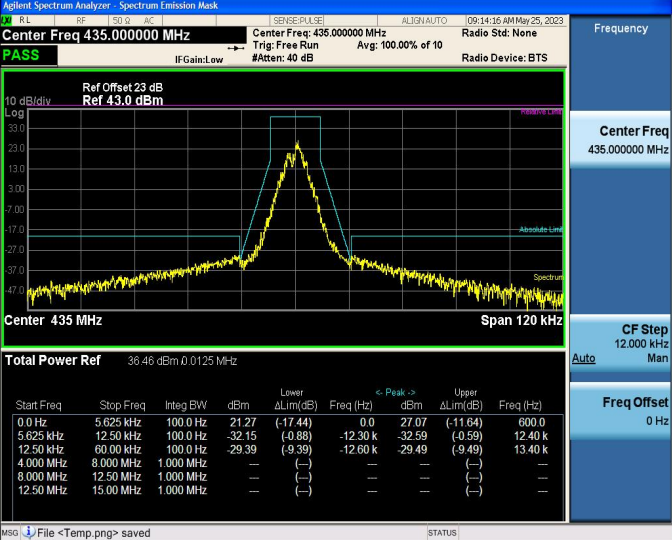
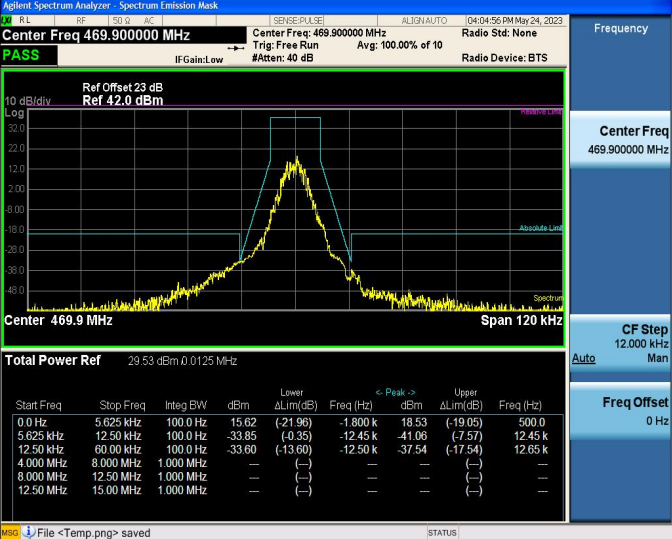
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _{L2}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 400.100000 MHz</p> <p>Occupied Bandwidth: 7.406 kHz</p> <p>Total Power: 37.3 dBm</p> <p>Transmit Freq Error: -90 Hz</p> <p>x dB Bandwidth: 9.218 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB: -26.00 dB</p>
TX-DNL	4FSK	CH _{M2}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 435.000000 MHz</p> <p>Occupied Bandwidth: 7.565 kHz</p> <p>Total Power: 36.7 dBm</p> <p>Transmit Freq Error: -31 Hz</p> <p>x dB Bandwidth: 9.389 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB: -26.00 dB</p>
TX-DNL	4FSK	CH _{H2}	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 469.900000 MHz</p> <p>Occupied Bandwidth: 7.715 kHz</p> <p>Total Power: 36.7 dBm</p> <p>Transmit Freq Error: -92 Hz</p> <p>x dB Bandwidth: 9.648 kHz</p> <p>OBW Power: 99.00 %</p> <p>x dB: -26.00 dB</p>

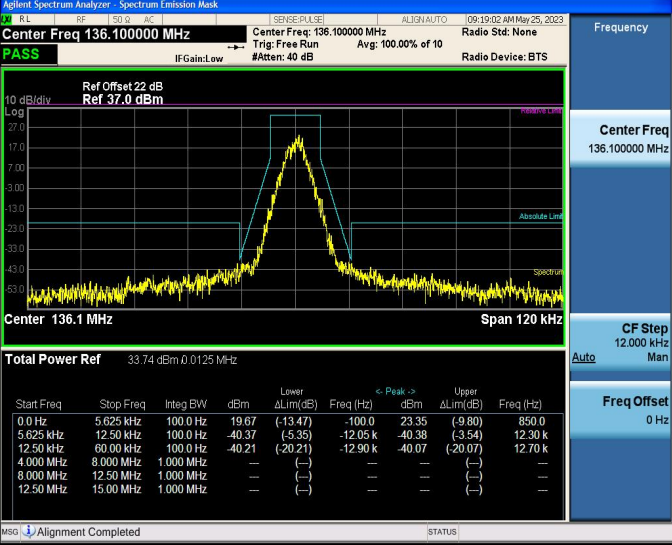
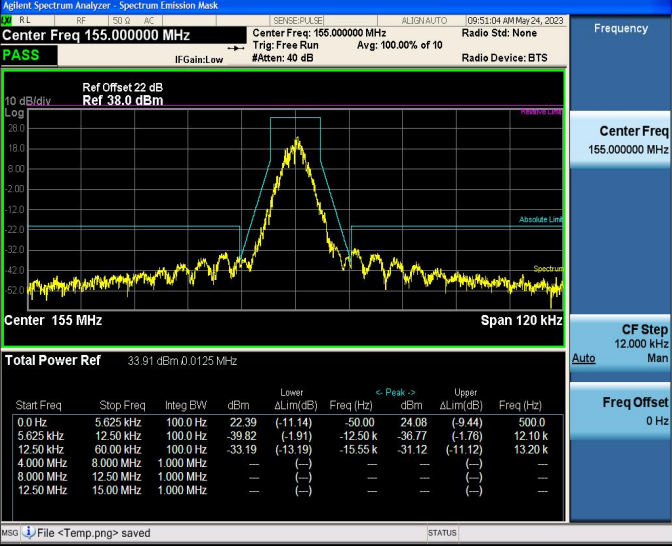
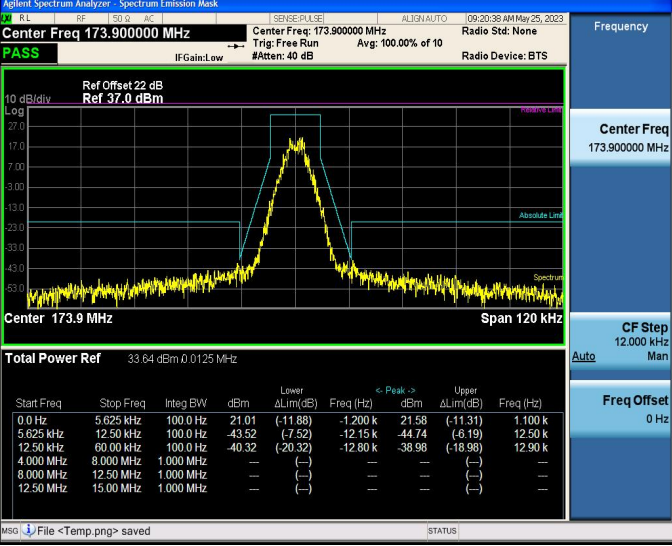
Appendix C:Emission Mask

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TX-DNH	4FSK	CH _{L1}	<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 22 dB Ref 44.0 dBm</p> <p>Center 136.1 MHz Span 120 kHz</p> <p>Total Power Ref 37.21 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>21.92</td> <td>(-17.62)</td> <td>0.0</td> <td>28.32</td> <td>(-11.23)</td> <td>500.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-32.02</td> <td>(-0.43)</td> <td>-12.50 k</td> <td>-34.58</td> <td>(-4.51)</td> <td>12.25 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-29.59</td> <td>(-9.69)</td> <td>-12.55 k</td> <td>-28.68</td> <td>(-8.68)</td> <td>13.85 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	21.92	(-17.62)	0.0	28.32	(-11.23)	500.0	5.625 kHz	12.50 kHz	100.0 Hz	-32.02	(-0.43)	-12.50 k	-34.58	(-4.51)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-29.59	(-9.69)	-12.55 k	-28.68	(-8.68)	13.85 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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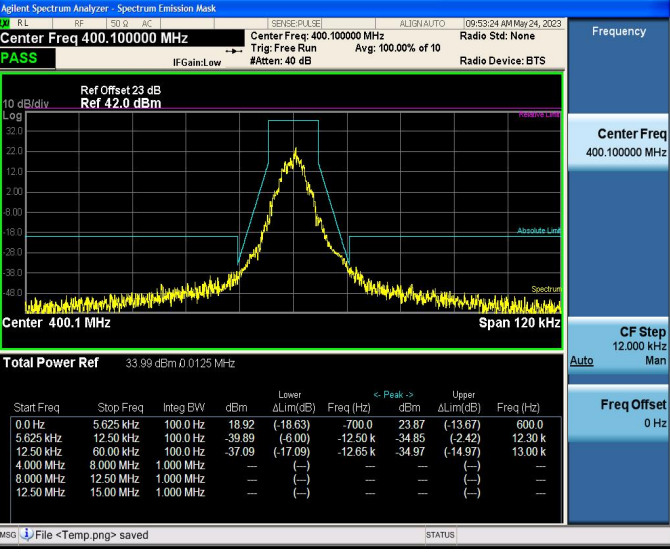
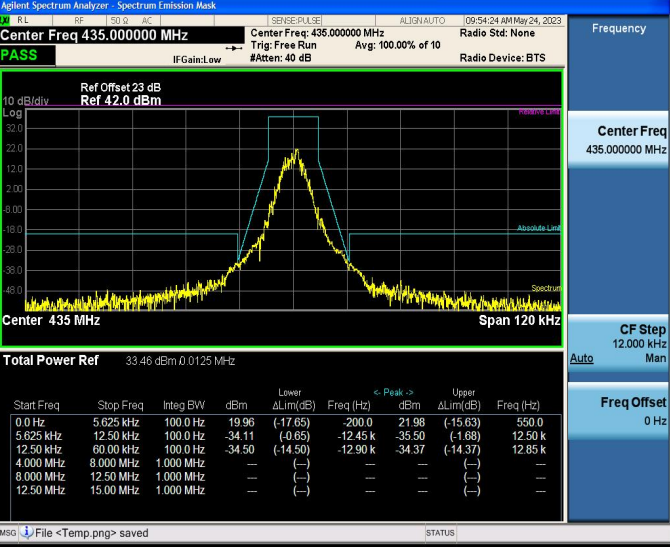
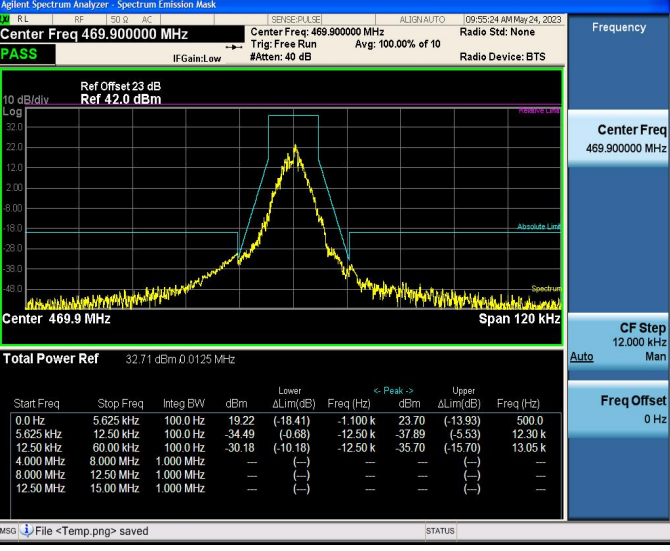
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _{L2}	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 400.100000 MHz</p> <p>Ref Offset 23 dB Ref 43.0 dBm</p> <p>Total Power Ref 39.85 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Peak Freq (Hz)</th> <th>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>28.36</td> <td>(-10.82)</td> <td>-150.0</td> <td>29.90</td> <td>(-9.28)</td> <td>350.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-34.38</td> <td>(2.12)</td> <td>-12.50 k</td> <td>-34.73</td> <td>(2.83)</td> <td>12.45 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-30.94</td> <td>(-10.94)</td> <td>-14.25 k</td> <td>-29.28</td> <td>(-9.28)</td> <td>12.60 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)	Peak Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	28.36	(-10.82)	-150.0	29.90	(-9.28)	350.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.38	(2.12)	-12.50 k	-34.73	(2.83)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-30.94	(-10.94)	-14.25 k	-29.28	(-9.28)	12.60 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 _{M2}	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 435.000000 MHz</p> <p>Ref Offset 23 dB Ref 43.0 dBm</p> <p>Total Power Ref 36.46 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Peak Freq (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>21.27</td> <td>(-17.44)</td> <td>0.0</td> <td>27.07</td> <td>(-11.64)</td> <td>600.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-32.15</td> <td>(-0.88)</td> <td>-12.30 k</td> <td>-32.59</td> <td>(-0.59)</td> <td>12.40 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-29.39</td> <td>(-9.39)</td> <td>-12.60 k</td> <td>-29.49</td> <td>(-9.49)</td> <td>13.40 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	21.27	(-17.44)	0.0	27.07	(-11.64)	600.0	5.625 kHz	12.50 kHz	100.0 Hz	-32.15	(-0.88)	-12.30 k	-32.59	(-0.59)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-29.39	(-9.39)	-12.60 k	-29.49	(-9.49)	13.40 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNH	4FSK	CH _{H2}	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 469.900000 MHz</p> <p>Ref Offset 23 dB Ref 42.0 dBm</p> <p>Total Power Ref 29.53 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Peak Freq (Hz)</th> <th>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>15.62</td> <td>(-21.96)</td> <td>-1.800 k</td> <td>18.53</td> <td>(-19.05)</td> <td>500.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-33.85</td> <td>(-0.35)</td> <td>-12.45 k</td> <td>-41.06</td> <td>(-7.57)</td> <td>12.45 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-33.60</td> <td>(-13.60)</td> <td>-12.50 k</td> <td>-37.54</td> <td>(-17.54)</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)	Peak Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	15.62	(-21.96)	-1.800 k	18.53	(-19.05)	500.0	5.625 kHz	12.50 kHz	100.0 Hz	-33.85	(-0.35)	-12.45 k	-41.06	(-7.57)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.60	(-13.60)	-12.50 k	-37.54	(-17.54)	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

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TX-DNL	4FSK	CH _{L1}	 <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: 22 dB Ref: 37.0 dBm</p> <p>Center: 136.1 MHz Span: 120 kHz</p> <p>Total Power Ref: 33.74 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Peak Freq (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Upper Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>18.67</td> <td>(-13.47)</td> <td>-100.0</td> <td>23.35</td> <td>(-9.80)</td> <td>850.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-40.37</td> <td>(-5.35)</td> <td>-12.05 k</td> <td>-40.38</td> <td>(-5.54)</td> <td>12.30 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-40.21</td> <td>(-20.21)</td> <td>-12.90 k</td> <td>-40.07</td> <td>(-20.07)</td> <td>12.70 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>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	dBm	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	18.67	(-13.47)	-100.0	23.35	(-9.80)	850.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.37	(-5.35)	-12.05 k	-40.38	(-5.54)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.21	(-20.21)	-12.90 k	-40.07	(-20.07)	12.70 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNL	4FSK	CH _{M1}	 <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: 22 dB Ref: 38.0 dBm</p> <p>Center: 155 MHz Span: 120 kHz</p> <p>Total Power Ref: 33.91 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Peak Freq (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Upper Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>22.39</td> <td>(-11.14)</td> <td>-50.00</td> <td>24.08</td> <td>(-9.44)</td> <td>500.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-39.82</td> <td>(-1.91)</td> <td>-12.50 k</td> <td>-36.77</td> <td>(-1.76)</td> <td>12.10 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-33.19</td> <td>(-13.19)</td> <td>-15.55 k</td> <td>-31.12</td> <td>(-11.12)</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)	Peak Freq (Hz)	dBm	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	22.39	(-11.14)	-50.00	24.08	(-9.44)	500.0	5.625 kHz	12.50 kHz	100.0 Hz	-39.82	(-1.91)	-12.50 k	-36.77	(-1.76)	12.10 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.19	(-13.19)	-15.55 k	-31.12	(-11.12)	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-DNL	4FSK	CH _{H1}	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq: 173.900000 MHz Center Freq: 173.900000 MHz Radio Std: None</p> <p>Ref Offset: 22 dB Ref: 37.0 dBm</p> <p>Center: 173.9 MHz Span: 120 kHz</p> <p>Total Power Ref: 33.64 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>Peak Freq (Hz)</th> <th>dBm</th> <th>Upper ΔLim(dB)</th> <th>Upper Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>21.01</td> <td>(-11.88)</td> <td>-1.200 k</td> <td>21.58</td> <td>(-11.31)</td> <td>1.100 k</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-43.52</td> <td>(-7.52)</td> <td>-12.15 k</td> <td>-44.74</td> <td>(-6.19)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-40.32</td> <td>(-20.32)</td> <td>-12.80 k</td> <td>-38.98</td> <td>(-18.98)</td> <td>12.90 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	dBm	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	21.01	(-11.88)	-1.200 k	21.58	(-11.31)	1.100 k	5.625 kHz	12.50 kHz	100.0 Hz	-43.52	(-7.52)	-12.15 k	-44.74	(-6.19)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.32	(-20.32)	-12.80 k	-38.98	(-18.98)	12.90 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _{L2}	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.100000 MHz Center Freq: 400.100000 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS</p> <p>Ref Offset 23 dB Ref 42.0 dBm</p> <p>Center 400.1 MHz Span 120 kHz</p> <p>Total Power Ref 33.99 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Peak Freq (Hz)</th> <th>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>18.92</td> <td>(-18.63)</td> <td>-700.0</td> <td>23.87</td> <td>(-13.67)</td> <td>600.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-39.89</td> <td>(-8.00)</td> <td>-12.50 k</td> <td>-34.85</td> <td>(-2.42)</td> <td>12.30 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-37.09</td> <td>(-17.09)</td> <td>-12.65 k</td> <td>-34.97</td> <td>(-14.97)</td> <td>13.00 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	18.92	(-18.63)	-700.0	23.87	(-13.67)	600.0	5.625 kHz	12.50 kHz	100.0 Hz	-39.89	(-8.00)	-12.50 k	-34.85	(-2.42)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.09	(-17.09)	-12.65 k	-34.97	(-14.97)	13.00 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNL	4FSK	CH _{M2}	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 435.000000 MHz Center Freq: 435.000000 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS</p> <p>Ref Offset 23 dB Ref 42.0 dBm</p> <p>Center 435 MHz Span 120 kHz</p> <p>Total Power Ref 33.46 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Peak Freq (Hz)</th> <th>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>19.96</td> <td>(-17.65)</td> <td>-200.0</td> <td>21.98</td> <td>(-15.63)</td> <td>550.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-34.11</td> <td>(-0.65)</td> <td>-12.45 k</td> <td>-35.50</td> <td>(-1.68)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-34.50</td> <td>(-14.50)</td> <td>-12.90 k</td> <td>-34.37</td> <td>(-14.37)</td> <td>12.85 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	19.96	(-17.65)	-200.0	21.98	(-15.63)	550.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.11	(-0.65)	-12.45 k	-35.50	(-1.68)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.50	(-14.50)	-12.90 k	-34.37	(-14.37)	12.85 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix D:Frequency Stability Test & Temperature

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)						Limit (ppm)	Result
		Voltage	Temperature	CH _{L1}	CH _{M1}	CH _{H1}	CH _{L2}	CH _{M2}	CH _{H2}		
TX-DNH	4FSK	V _N	-30	-0.839	-0.677	-0.812	-0.371	-0.347	-0.355	±5.0	PASS
TX-DNH	4FSK	V _N	-20	-0.857	-0.687	-0.820	-0.361	-0.360	-0.329	±5.0	PASS
TX-DNH	4FSK	V _N	-10	-0.850	-0.742	-0.888	-0.385	-0.353	-0.336	±5.0	PASS
TX-DNH	4FSK	V _N	0	-0.839	-0.711	-0.850	-0.364	-0.361	-0.346	±5.0	PASS
TX-DNH	4FSK	V _N	10	-0.815	-0.700	-0.850	-0.365	-0.341	-0.339	±5.0	PASS
TX-DNH	4FSK	V _N	20	-0.794	-0.677	-0.811	-0.360	-0.334	-0.324	±5.0	PASS
TX-DNH	4FSK	V _N	30	-0.850	-0.713	-0.854	-0.369	-0.344	-0.351	±5.0	PASS
TX-DNH	4FSK	V _N	40	-0.795	-0.696	-0.855	-0.369	-0.351	-0.343	±5.0	PASS
TX-DNH	4FSK	V _N	50	-0.819	-0.733	-0.818	-0.374	-0.348	-0.336	±5.0	PASS
TX-DNL	4FSK	V _N	-30	-0.826	-0.719	-0.919	-0.362	-0.346	-0.332	±5.0	PASS
TX-DNL	4FSK	V _N	-20	-0.796	-0.696	-0.873	-0.351	-0.353	-0.334	±5.0	PASS
TX-DNL	4FSK	V _N	-10	-0.806	-0.695	-0.875	-0.377	-0.346	-0.350	±5.0	PASS
TX-DNL	4FSK	V _N	0	-0.804	-0.736	-0.886	-0.373	-0.346	-0.327	±5.0	PASS
TX-DNL	4FSK	V _N	10	-0.829	-0.680	-0.884	-0.346	-0.337	-0.357	±5.0	PASS
TX-DNL	4FSK	V _N	20	-0.781	-0.675	-0.840	-0.343	-0.329	-0.326	±5.0	PASS
TX-DNL	4FSK	V _N	30	-0.843	-0.676	-0.860	-0.349	-0.329	-0.355	±5.0	PASS
TX-DNL	4FSK	V _N	40	-0.840	-0.703	-0.922	-0.361	-0.342	-0.345	±5.0	PASS
TX-DNL	4FSK	V _N	50	-0.797	-0.717	-0.877	-0.374	-0.348	-0.347	±5.0	PASS

Appendix E:Frequency Stability Test & Voltage

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)						Limit (ppm)	Result
		Voltage	Temperature	CH _{L1}	CH _{M1}	CH _{H1}	CH _{L2}	CH _{M2}	CH _{H2}		
TX-DNH	4FSK	V _N	T _N	-0.794	-0.677	-0.811	-0.360	-0.334	-0.324	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	-0.795	-0.684	-0.827	-0.360	-0.337	-0.326	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	-0.841	-0.694	-0.815	-0.366	-0.352	-0.334	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	-0.781	-0.675	-0.840	-0.343	-0.329	-0.326	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	-0.794	-0.686	-0.849	-0.349	-0.335	-0.330	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	-0.785	-0.708	-0.882	-0.356	-0.342	-0.343	±5.0	PASS

Appendix F:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																													
TX-DNH	4FSK	CH _{M1}	<p> MultiView Spectrum Analog Demod Ref Level 47.00 dBm Offset 27.00 dB Att 30 dB AQT 100 ms DBW 25 kHz Freq 155.0 MHz TRG:JFY(17MHz) YIG Bypass 1 FM Time Domain TAP Clw DC Ref:0.00 Hz CF 155.0 MHz 1001 pts 10.0 ms/ </p> <table border="1"> <thead> <tr> <th colspan="4">4 Result Summary</th> <th>Carrier Power</th> <th>Carrier Offset</th> <th colspan="3"></th> </tr> <tr> <th></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 colspan="2"></th> </tr> </thead> <tbody> <tr> <td>FM</td> <td>12.905 kHz</td> <td>-12.887 kHz</td> <td>12.896 kHz</td> <td>2.7065 kHz</td> <td>---</td> <td>---</td> <td>---</td> <td colspan="2"></td> </tr> </tbody> </table> <p> Date: 22 MAY 2023 10:33:46 </p>	4 Result Summary				Carrier Power	Carrier Offset					+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD			FM	12.905 kHz	-12.887 kHz	12.896 kHz	2.7065 kHz	---	---	---		
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TX-DNH	4FSK	CH _{M1}	<p> MultiView Spectrum Analog Demod Ref Level 47.00 dBm Offset 27.00 dB Att 30 dB AQT 100 ms DBW 25 kHz Freq 155.0 MHz TRG:JFY(17MHz) YIG Bypass 1 FM Time Domain TAP Clw DC Ref:0.00 Hz CF 155.0 MHz 1001 pts 10.0 ms/ </p> <table border="1"> <thead> <tr> <th colspan="4">4 Result Summary</th> <th>Carrier Power</th> <th>Carrier Offset</th> <th colspan="3"></th> </tr> <tr> <th></th> <th>+Peak</th> <th>-Peak</th> <th>+Peak/2</th> <th>RMS</th> <th>Mod. Freq.</th> <th>SINAD</th> <th>THD</th> <td colspan="2"></td> </tr> </thead> <tbody> <tr> <td>FM</td> <td>19.874 kHz</td> <td>-14.229 kHz</td> <td>17.051 kHz</td> <td>2.7934 kHz</td> <td>---</td> <td>---</td> <td>---</td> <td colspan="2"></td> </tr> </tbody> </table> <p> Date: 22 MAY 2023 10:34:18 </p>	4 Result Summary				Carrier Power	Carrier Offset					+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD			FM	19.874 kHz	-14.229 kHz	17.051 kHz	2.7934 kHz	---	---	---		
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FM	19.874 kHz	-14.229 kHz	17.051 kHz	2.7934 kHz	---	---	---																									
TX-DNH	4FSK	CH _{M2}	<p> MultiView Spectrum Analog Demod Ref Level 47.00 dBm Offset 27.00 dB Att 30 dB AQT 100 ms DBW 25 kHz Freq 435.0 MHz TRG:JFY(17MHz) YIG Bypass 1 FM Time Domain TAP Clw DC Ref:0.00 Hz CF 435.0 MHz 1001 pts 10.0 ms/ </p> <table border="1"> <thead> <tr> <th colspan="4">4 Result Summary</th> <th>Carrier Power</th> <th>Carrier Offset</th> <th colspan="3"></th> </tr> <tr> <th></th> <th>+Peak</th> <th>-Peak</th> <th>+Peak/2</th> <th>RMS</th> <th>Mod. Freq.</th> <th>SINAD</th> <th>THD</th> <td colspan="2"></td> </tr> </thead> <tbody> <tr> <td>FM</td> <td>13.432 kHz</td> <td>-13.576 kHz</td> <td>13.504 kHz</td> <td>2.7098 kHz</td> <td>---</td> <td>---</td> <td>---</td> <td colspan="2"></td> </tr> </tbody> </table> <p> Date: 22 MAY 2023 10:45:26 </p>	4 Result Summary				Carrier Power	Carrier Offset					+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD			FM	13.432 kHz	-13.576 kHz	13.504 kHz	2.7098 kHz	---	---	---		
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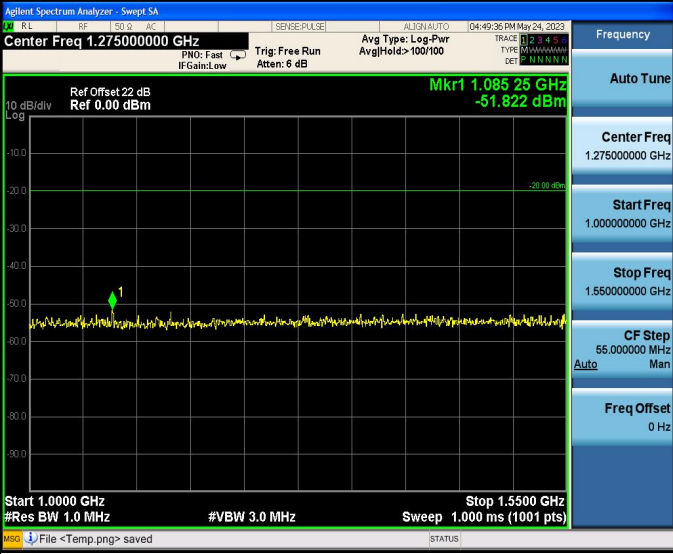
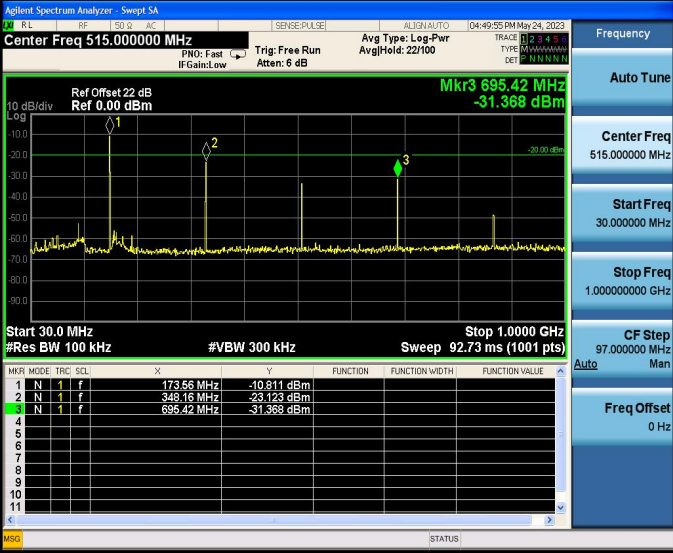
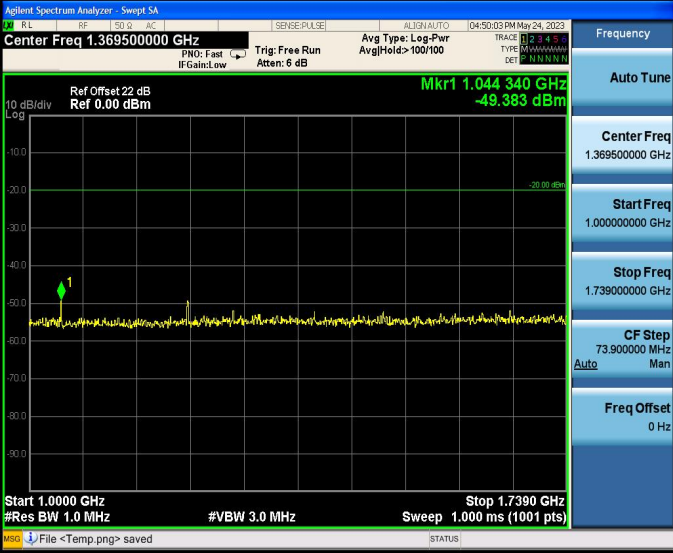
Appendix F:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CHM2	<p> 4 Result Summary Carrier Power: 30.80 dBm Carrier Offset: 11.58 Hz +Peak: 23.307 kHz -Peak: -19.986 kHz +Peak/2: 21.646 kHz RMS: 2.8165 kHz Mod. Freq.: --- SINAD: --- THD: --- Date: 22 MAY 2023 10:45:51 </p>

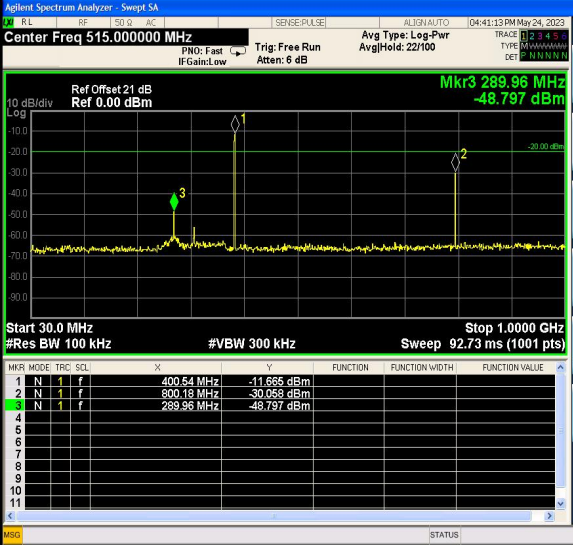
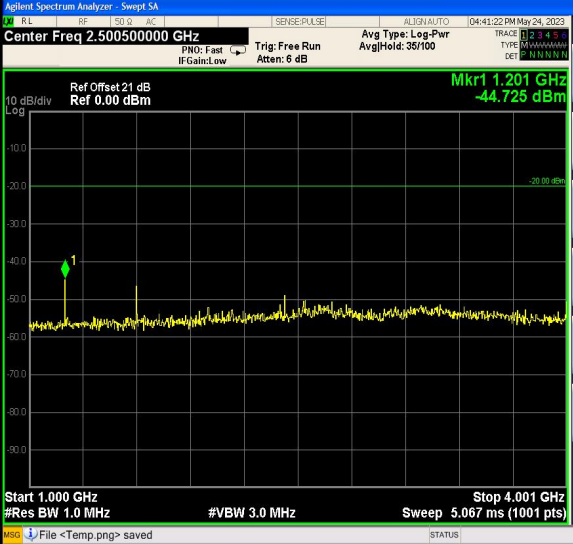
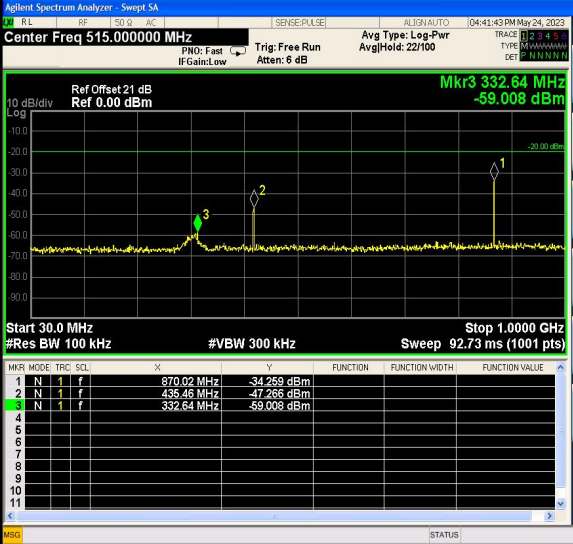
Appendix G:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-DNH	4FSK	CHL1	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 22 dB Ref 0.00 dBm Mkr3 272.50 MHz -28.304 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>TRIG</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>135.73 MHz</td> <td>-15.447 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>544.10 MHz</td> <td>-24.986 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>272.50 MHz</td> <td>-28.304 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	135.73 MHz	-15.447 dBm				2	N	1	f	544.10 MHz	-24.986 dBm				3	N	1	f	272.50 MHz	-28.304 dBm			
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TX-DNH	4FSK	CHL1	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 1.18050000 GHz Ref Offset 22 dB Ref 0.00 dBm Mkr1 1.089167 GHz -51.785 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 1.361 GHz Sweep 1.000 ms (1001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRIG</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>1.089167 GHz</td> <td>-51.785 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	1.089167 GHz	-51.785 dBm																					
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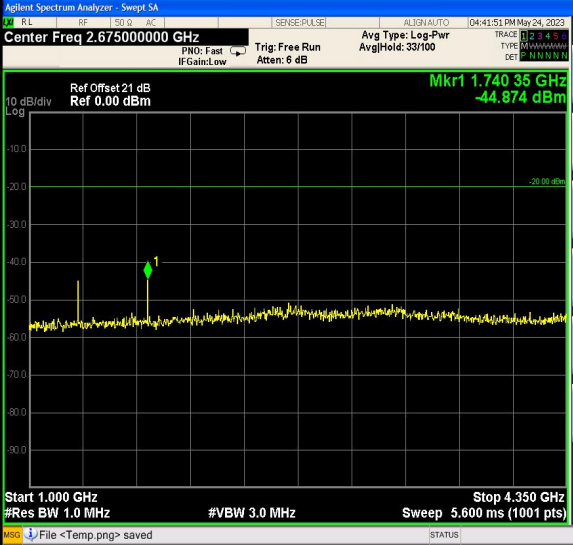
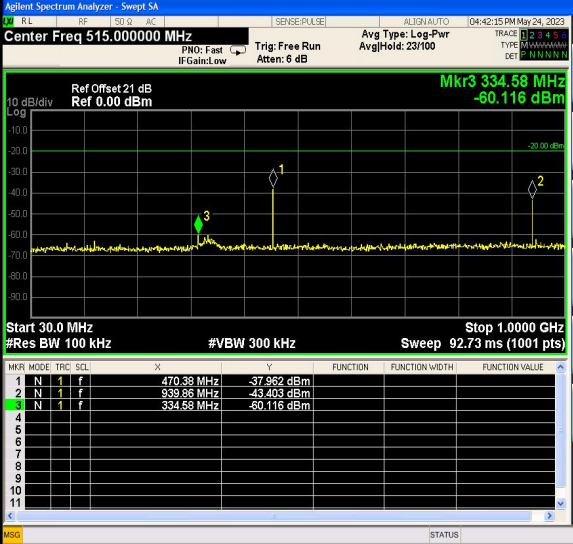
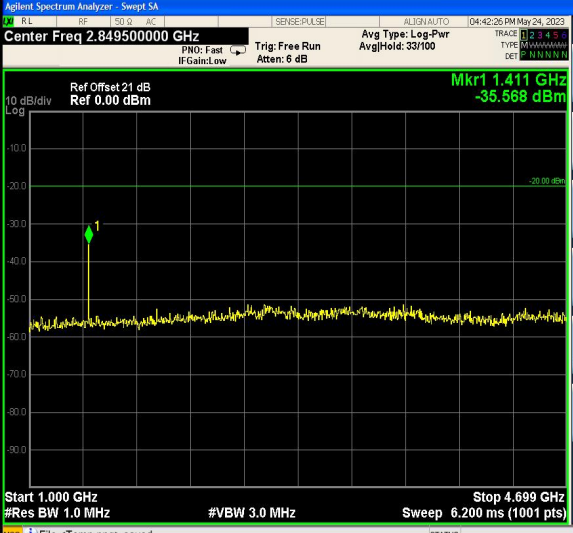
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Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																												
TX-DNH	4FSK	CH _{M1}	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 1.27500000 GHz</p> <p>Mkr1 1.085 25 GHz -51.822 dBm</p> <p>Start 1.0000 GHz Stop 1.5500 GHz</p> <p>#Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts)</p>																																																																																																												
TX-DNH	4FSK	CH _{H1}	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 515.000000 MHz</p> <p>Mkr3 695.42 MHz -31.368 dBm</p> <p>Start 30.0 MHz Stop 1.0000 GHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts)</p> <table border="1" data-bbox="566 1288 1141 1467"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRIG</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>173.56 MHz</td> <td>-10.811 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>-23.423 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>695.42 MHz</td> <td>-31.368 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	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	173.56 MHz	-10.811 dBm				2	N	1	f	348.16 MHz	-23.423 dBm				3	N	1	f	695.42 MHz	-31.368 dBm				4									5									6									7									8									9									10									11								
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TX-DNH	4FSK	CH _{H1}	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 1.36950000 GHz</p> <p>Mkr1 1.044 340 GHz -49.383 dBm</p> <p>Start 1.0000 GHz Stop 1.7390 GHz</p> <p>#Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts)</p>																																																																																																												

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TX-DNH	4FSK	CH _{L2}	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 515.000000 MHz</p> <p>Ref Offset 21 dB Ref 0.00 dBm</p> <p>Mkr3 289.96 MHz -48.797 dBm</p> <p>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 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>400.64 MHz</td> <td></td> <td></td> <td>-11.666 dBm</td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>800.18 MHz</td> <td></td> <td></td> <td>-30.059 dBm</td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>289.96 MHz</td> <td></td> <td></td> <td>-48.797 dBm</td> </tr> </tbody> </table>	MKR MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	400.64 MHz			-11.666 dBm	2	N	1	f	800.18 MHz			-30.059 dBm	3	N	1	f	289.96 MHz			-48.797 dBm
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TX-DNH	4FSK	CH _{M2}	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.675000000 GHz Ref Offset 21 dB Ref 0.00 dBm Mkr1 1.740 35 GHz -44.874 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>																																				
TX-DNH	4FSK	CH _{H2}	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.0000000 MHz Ref Offset 21 dB Ref 0.00 dBm Mkr3 334.58 MHz -60.116 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" data-bbox="566 1288 1141 1467"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRIG</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>470.38 MHz</td> <td>-37.962 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>939.86 MHz</td> <td>-43.403 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>334.58 MHz</td> <td>-60.116 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	470.38 MHz	-37.962 dBm				2	N	1	f	939.86 MHz	-43.403 dBm				3	N	1	f	334.58 MHz	-60.116 dBm			
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TX-DNH	4FSK	CH _{H2}	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.849500000 GHz Ref Offset 21 dB Ref 0.00 dBm Mkr1 1.411 GHz -35.568 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 4.699 GHz Sweep 6.200 ms (1001 pts)</p>																																				

----End of Report----