

Project No.	SHT2206029701EW		
Test sample No.	YPHT22060297003	Model No.	DH460 UHF
Start test date	2022/7/11	Finish date	2022/7/19
Temperature	25.8°C	Humidity	45%
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	Modulation Limit	PASS
E	Audio Frequency Response	PASS
F	Frequency Stability Test & Temperature	PASS
G	Frequency Stability Test & Voltage	PASS
H	Transmitter Frequency Behavior	PASS
I	Spurious Emission On Antenna Port	PASS

**Appendix A:Maximum Transmitter Power**

Operation Mode	Modulation Type	Test Channel	Measured Power (dBm)	Measured Power(W)	Rated Power(W)	Percentage (%)	Limit (%)	Result
TX-DNH	4FSK	CH <sub>L</sub>	35.6	3.63	4.00	-9.3	±20	PASS
TX-DNH	4FSK	CH <sub>M1</sub>	35.7	3.72	4.00	-7.0	±20	PASS
TX-DNH	4FSK	CH <sub>M2</sub>	35.7	3.72	4.00	-7.0	±20	PASS
TX-DNH	4FSK	CH <sub>M3</sub>	35.5	3.55	4.00	-11.3	±20	PASS
TX-DNH	4FSK	CH <sub>H</sub>	35.6	3.63	4.00	-9.3	±20	PASS
TX-DNL	4FSK	CH <sub>L</sub>	29.5	0.89	1.00	-11.0	±20	PASS
TX-DNL	4FSK	CH <sub>M1</sub>	29.8	0.95	1.00	-5.0	±20	PASS
TX-DNL	4FSK	CH <sub>M2</sub>	29.8	0.95	1.00	-5.0	±20	PASS
TX-DNL	4FSK	CH <sub>M3</sub>	29.1	0.81	1.00	-19.0	±20	PASS
TX-DNL	4FSK	CH <sub>H</sub>	29.1	0.81	1.00	-19.0	±20	PASS
TX-ANH	FM	CH <sub>L</sub>	36.2	4.19	4.00	4.8	±20	PASS
TX-ANH	FM	CH <sub>M1</sub>	36.2	4.15	4.00	3.8	±20	PASS
TX-ANH	FM	CH <sub>M2</sub>	36.2	4.16	4.00	4.0	±20	PASS
TX-ANH	FM	CH <sub>M3</sub>	35.7	3.73	4.00	-6.8	±20	PASS
TX-ANH	FM	CH <sub>H</sub>	36.2	4.16	4.00	4.0	±20	PASS
TX-ANL	FM	CH <sub>L</sub>	29.9	0.97	1.00	-3.0	±20	PASS
TX-ANL	FM	CH <sub>M1</sub>	30.3	1.07	1.00	7.0	±20	PASS
TX-ANL	FM	CH <sub>M2</sub>	30.3	1.07	1.00	7.0	±20	PASS
TX-ANL	FM	CH <sub>M3</sub>	29.4	0.86	1.00	-14.0	±20	PASS
TX-ANL	FM	CH <sub>H</sub>	30.0	0.99	1.00	-1.0	±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 <sub>L</sub>	7.785	9.453	≤11.25	PASS
TX-DNH	4FSK	CH <sub>M1</sub>	7.644	9.413	≤11.25	PASS
TX-DNH	4FSK	CH <sub>M2</sub>	7.575	9.321	≤11.25	PASS
TX-DNH	4FSK	CH <sub>M3</sub>	7.624	9.333	≤11.25	PASS
TX-DNH	4FSK	CH <sub>H</sub>	7.617	9.305	≤11.25	PASS
TX-DNL	4FSK	CH <sub>L</sub>	7.626	9.567	≤11.25	PASS
TX-DNL	4FSK	CH <sub>M1</sub>	7.587	9.330	≤11.25	PASS
TX-DNL	4FSK	CH <sub>M2</sub>	7.668	9.365	≤11.25	PASS
TX-DNL	4FSK	CH <sub>M3</sub>	7.593	9.707	≤11.25	PASS
TX-DNL	4FSK	CH <sub>H</sub>	7.314	9.279	≤11.25	PASS
TX-ANH	FM	CH <sub>L</sub>	9.977	10.160	≤11.25	PASS
TX-ANH	FM	CH <sub>M1</sub>	9.971	10.160	≤11.25	PASS
TX-ANH	FM	CH <sub>M2</sub>	9.976	10.170	≤11.25	PASS
TX-ANH	FM	CH <sub>M3</sub>	9.976	10.170	≤11.25	PASS
TX-ANH	FM	CH <sub>H</sub>	9.973	10.170	≤11.25	PASS
TX-ANL	FM	CH <sub>L</sub>	9.980	10.160	≤11.25	PASS
TX-ANL	FM	CH <sub>M1</sub>	9.976	10.170	≤11.25	PASS
TX-ANL	FM	CH <sub>M2</sub>	9.976	10.160	≤11.25	PASS
TX-ANL	FM	CH <sub>M3</sub>	9.978	10.170	≤11.25	PASS
TX-ANL	FM	CH <sub>H</sub>	9.976	10.170	≤11.25	PASS

**Appendix B:Occupied Bandwidth**

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 400.012500 MHz    Center Freq: 400.012500 MHz    Radio Std: None</p> <p>Trig: Free Run    Avg/Hold: &gt;10/10</p> <p>#FGain: Low    #Atten: 40 dB    Radio Device: BTS</p> <p>10 dB/div    Ref 38.96 dBm</p> <p>Center 400 MHz    Span 50 kHz</p> <p>#Res BW 100 Hz    #VBW 300 Hz    Sweep FFT</p> <p>Occupied Bandwidth    Total Power    41.6 dBm</p> <p>7.785 kHz</p> <p>Transmit Freq Error    -366 Hz    OBW Power    99.00 %</p> <p>x dB Bandwidth    9.453 kHz    x dB    -26.00 dB</p> <p>Frequency: 400.012500 MHz</p> <p>Center Freq: 400.012500 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p>
TX-DNH	4FSK	CH <sub>M1</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 405.987500 MHz    Center Freq: 405.987500 MHz    Radio Std: None</p> <p>Trig: Free Run    Avg/Hold: &gt;10/10</p> <p>#FGain: Low    #Atten: 40 dB    Radio Device: BTS</p> <p>10 dB/div    Ref 38.96 dBm</p> <p>Center 406 MHz    Span 50 kHz</p> <p>#Res BW 100 Hz    #VBW 300 Hz    Sweep FFT</p> <p>Occupied Bandwidth    Total Power    41.8 dBm</p> <p>7.644 kHz</p> <p>Transmit Freq Error    -439 Hz    OBW Power    99.00 %</p> <p>x dB Bandwidth    9.413 kHz    x dB    -26.00 dB</p> <p>Frequency: 405.987500 MHz</p> <p>Center Freq: 405.987500 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p>
TX-DNH	4FSK	CH <sub>M2</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 406.112500 MHz    Center Freq: 406.112500 MHz    Radio Std: None</p> <p>Trig: Free Run    Avg/Hold: &gt;10/10</p> <p>#FGain: Low    #Atten: 40 dB    Radio Device: BTS</p> <p>10 dB/div    Ref 38.93 dBm</p> <p>Center 406.1 MHz    Span 50 kHz</p> <p>#Res BW 100 Hz    #VBW 300 Hz    Sweep FFT</p> <p>Occupied Bandwidth    Total Power    41.6 dBm</p> <p>7.575 kHz</p> <p>Transmit Freq Error    -387 Hz    OBW Power    99.00 %</p> <p>x dB Bandwidth    9.321 kHz    x dB    -26.00 dB</p> <p>Frequency: 406.112500 MHz</p> <p>Center Freq: 406.112500 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p>

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH <sub>M3</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 438.012500 MHz</p> <p>Occupied Bandwidth 7.624 kHz</p> <p>Total Power 41.2 dBm</p> <p>Transmit Freq Error -359 Hz</p> <p>x dB Bandwidth 9.333 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB -26.00 dB</p>
TX-DNH	4FSK	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 469.987500 MHz</p> <p>Occupied Bandwidth 7.617 kHz</p> <p>Total Power 41.5 dBm</p> <p>Transmit Freq Error -368 Hz</p> <p>x dB Bandwidth 9.305 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB -26.00 dB</p>
TX-DNL	4FSK	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 400.012500 MHz</p> <p>Occupied Bandwidth 7.626 kHz</p> <p>Total Power 36.0 dBm</p> <p>Transmit Freq Error -405 Hz</p> <p>x dB Bandwidth 9.567 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 <sub>M1</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 405.987500 MHz    Center Freq: 405.987500 MHz    Radio Std: None</p> <p>Trig: Free Run    AvgHold: &gt;10/10</p> <p>#FGain: Low    #Atten: 34 dB    Radio Device: BTS</p> <p>10 dB/div    Ref 32.93 dBm</p> <p>Center 406 MHz    Span 50 kHz</p> <p>#Res BW 100 Hz    #VBW 300 Hz    Sweep FFT</p> <p>Occupied Bandwidth    Total Power    35.0 dBm</p> <p>7.587 kHz</p> <p>Transmit Freq Error    -434 Hz    OBW Power    99.00 %</p> <p>x dB Bandwidth    9.330 kHz    x dB    -26.00 dB</p> <p>Frequency: 405.987500 MHz</p> <p>Center Freq: 405.987500 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p>
TX-DNL	4FSK	CH <sub>M2</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 406.112500 MHz    Center Freq: 406.112500 MHz    Radio Std: None</p> <p>Trig: Free Run    AvgHold: &gt;10/10</p> <p>#FGain: Low    #Atten: 34 dB    Radio Device: BTS</p> <p>10 dB/div    Ref 32.96 dBm</p> <p>Center 406.1 MHz    Span 50 kHz</p> <p>#Res BW 100 Hz    #VBW 300 Hz    Sweep FFT</p> <p>Occupied Bandwidth    Total Power    36.1 dBm</p> <p>7.668 kHz</p> <p>Transmit Freq Error    -394 Hz    OBW Power    99.00 %</p> <p>x dB Bandwidth    9.365 kHz    x dB    -26.00 dB</p> <p>Frequency: 406.112500 MHz</p> <p>Center Freq: 406.112500 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p>
TX-DNL	4FSK	CH <sub>M3</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 438.012500 MHz    Center Freq: 438.012500 MHz    Radio Std: None</p> <p>Trig: Free Run    AvgHold: &gt;10/10</p> <p>#FGain: Low    #Atten: 32 dB    Radio Device: BTS</p> <p>10 dB/div    Ref 31.96 dBm</p> <p>Center 438 MHz    Span 50 kHz</p> <p>#Res BW 100 Hz    #VBW 300 Hz    Sweep FFT</p> <p>Occupied Bandwidth    Total Power    34.9 dBm</p> <p>7.593 kHz</p> <p>Transmit Freq Error    -382 Hz    OBW Power    99.00 %</p> <p>x dB Bandwidth    9.707 kHz    x dB    -26.00 dB</p> <p>Frequency: 438.012500 MHz</p> <p>Center Freq: 438.012500 MHz</p> <p>CF Step: 5.000 kHz</p> <p>Freq Offset: 0 Hz</p>

**Appendix B:Occupied Bandwidth**

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 469.987500 MHz</p> <p>Occupied Bandwidth: 7.314 kHz</p> <p>Total Power: 35.2 dBm</p> <p>Transmit Freq Error: -348 Hz</p>
TX-ANH	FM	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 400.012500 MHz</p> <p>Occupied Bandwidth: 9.977 kHz</p> <p>Total Power: 35.2 dBm</p> <p>Transmit Freq Error: -479 Hz</p>
TX-ANH	FM	CH <sub>M1</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 405.987500 MHz</p> <p>Occupied Bandwidth: 9.971 kHz</p> <p>Total Power: 35.3 dBm</p> <p>Transmit Freq Error: -464 Hz</p>

**Appendix B:Occupied Bandwidth**

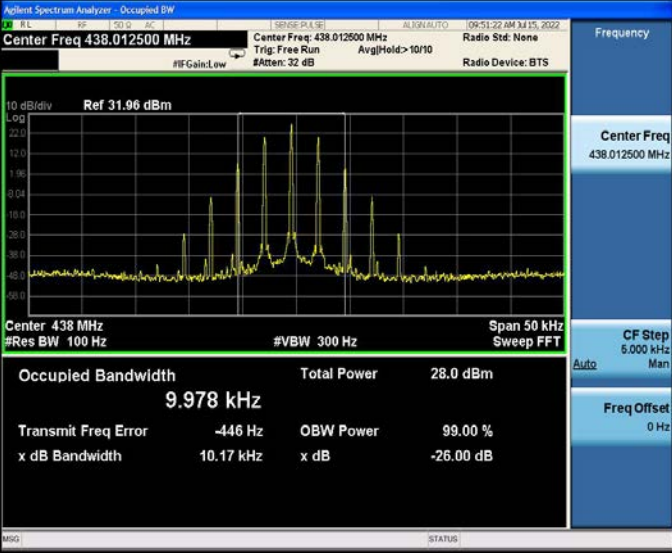
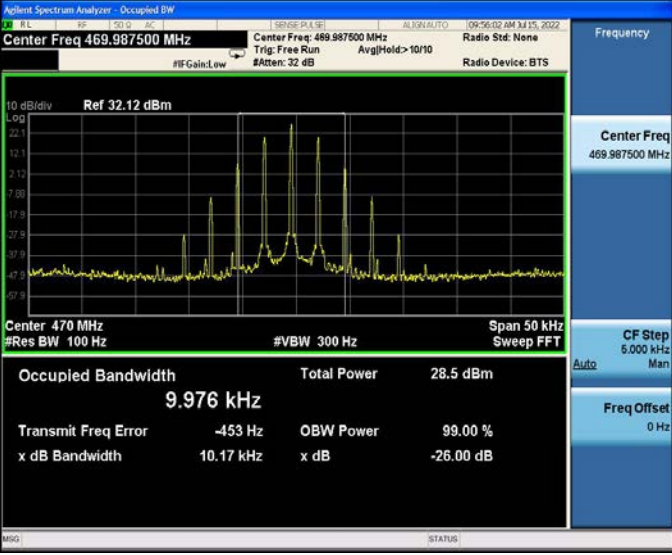
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH <sub>M2</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 406.112500 MHz    Center Freq: 406.112500 MHz    Radio Std: None</p> <p>Trig: Free Run    Avg/Hold: &gt;10/10</p> <p>#FGain: Low    #Atten: 40 dB    Radio Device: BTS</p> <p>10 dB/div    Ref 38.91 dBm</p> <p>Center 406.1 MHz    Span 50 kHz</p> <p>#Res BW 100 Hz    #VBW 300 Hz    Sweep FFT</p> <p>Occupied Bandwidth    Total Power    35.0 dBm</p> <p>9.976 kHz</p> <p>Transmit Freq Error    -453 Hz    OBW Power    99.00 %</p> <p>x dB Bandwidth    10.17 kHz    x dB    -26.00 dB</p> <p>MSO Alignment Completed    STATUS</p>
TX-ANH	FM	CH <sub>M3</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 438.012500 MHz    Center Freq: 438.012500 MHz    Radio Std: None</p> <p>Trig: Free Run    Avg/Hold: &gt;10/10</p> <p>#FGain: Low    #Atten: 40 dB    Radio Device: BTS</p> <p>10 dB/div    Ref 38.35 dBm</p> <p>Center 438 MHz    Span 50 kHz</p> <p>#Res BW 100 Hz    #VBW 300 Hz    Sweep FFT</p> <p>Occupied Bandwidth    Total Power    34.6 dBm</p> <p>9.976 kHz</p> <p>Transmit Freq Error    -455 Hz    OBW Power    99.00 %</p> <p>x dB Bandwidth    10.17 kHz    x dB    -26.00 dB</p> <p>MSO    STATUS</p>
TX-ANH	FM	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 469.987500 MHz    Center Freq: 469.987500 MHz    Radio Std: None</p> <p>Trig: Free Run    Avg/Hold: &gt;10/10</p> <p>#FGain: Low    #Atten: 40 dB    Radio Device: BTS</p> <p>10 dB/div    Ref 38.69 dBm</p> <p>Center 470 MHz    Span 50 kHz</p> <p>#Res BW 100 Hz    #VBW 300 Hz    Sweep FFT</p> <p>Occupied Bandwidth    Total Power    35.5 dBm</p> <p>9.973 kHz</p> <p>Transmit Freq Error    -470 Hz    OBW Power    99.00 %</p> <p>x dB Bandwidth    10.17 kHz    x dB    -26.00 dB</p> <p>MSO    STATUS</p>



**Appendix B:Occupied Bandwidth**

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 400.012500 MHz    Center Freq: 400.012500 MHz    Radio Std: None</p> <p>#Res BW 100 Hz    #VBW 300 Hz    Span 50 kHz</p> <p>Occupied Bandwidth    Total Power    29.1 dBm</p> <p>9.980 kHz</p> <p>Transmit Freq Error    -460 Hz    OBW Power    99.00 %</p> <p>x dB Bandwidth    10.16 kHz    x dB    -26.00 dB</p>
TX-ANL	FM	CH <sub>M1</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 405.987500 MHz    Center Freq: 405.987500 MHz    Radio Std: None</p> <p>#Res BW 100 Hz    #VBW 300 Hz    Span 50 kHz</p> <p>Occupied Bandwidth    Total Power    29.2 dBm</p> <p>9.976 kHz</p> <p>Transmit Freq Error    -454 Hz    OBW Power    99.00 %</p> <p>x dB Bandwidth    10.17 kHz    x dB    -26.00 dB</p>
TX-ANL	FM	CH <sub>M2</sub>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 406.112500 MHz    Center Freq: 406.112500 MHz    Radio Std: None</p> <p>#Res BW 100 Hz    #VBW 300 Hz    Span 50 kHz</p> <p>Occupied Bandwidth    Total Power    29.0 dBm</p> <p>9.976 kHz</p> <p>Transmit Freq Error    -445 Hz    OBW Power    99.00 %</p> <p>x dB Bandwidth    10.16 kHz    x dB    -26.00 dB</p>

**Appendix B:Occupied Bandwidth**

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH <sub>M3</sub>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 438.012500 MHz</p> <p>Center Freq 438.012500 MHz</p> <p>Total Power 28.0 dBm</p> <p>Occupied Bandwidth 9.978 kHz</p> <p>Transmit Freq Error -446 Hz</p> <p>x dB Bandwidth 10.17 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB -26.00 dB</p>
TX-ANL	FM	CH <sub>H</sub>	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 469.987500 MHz</p> <p>Center Freq 469.987500 MHz</p> <p>Total Power 28.5 dBm</p> <p>Occupied Bandwidth 9.976 kHz</p> <p>Transmit Freq Error -453 Hz</p> <p>x dB Bandwidth 10.17 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB -26.00 dB</p>

**Appendix C:Emission Mask**

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH <sub>L</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 400.012500 MHz</p> <p>Ref Offset 11 dB Ref 40.0 dBm</p> <p>Total Power Ref 35.66 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>&lt; Peak &gt; dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>35.67</td> <td>(-0.76)</td> <td>-500.0</td> <td>-28.97</td> <td>(65.40)</td> <td>100.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-38.10</td> <td>(-4.55)</td> <td>-12.30 k</td> <td>-38.57</td> <td>(-4.29)</td> <td>12.40 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-35.81</td> <td>(-15.81)</td> <td>-13.20 k</td> <td>-39.41</td> <td>(-19.41)</td> <td>13.50 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.67	(-0.76)	-500.0	-28.97	(65.40)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.10	(-4.55)	-12.30 k	-38.57	(-4.29)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.81	(-15.81)	-13.20 k	-39.41	(-19.41)	13.50 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	35.67	(-0.76)	-500.0	-28.97	(65.40)	100.0																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-38.10	(-4.55)	-12.30 k	-38.57	(-4.29)	12.40 k																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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Appendix C:Emission Mask

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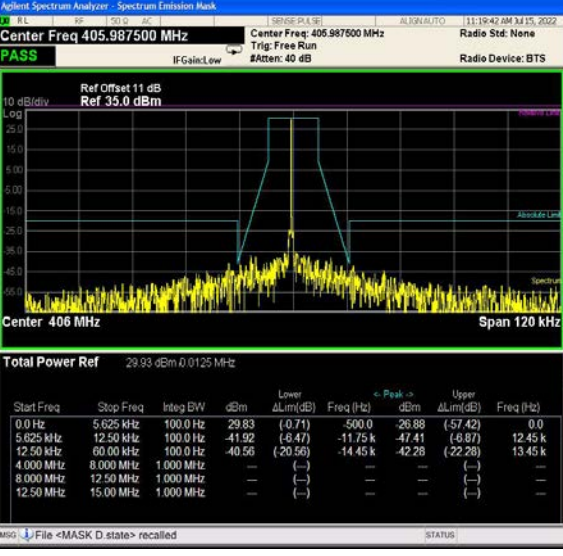
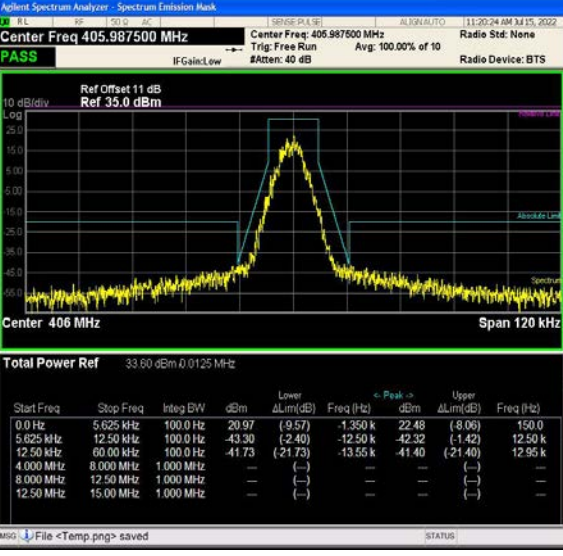
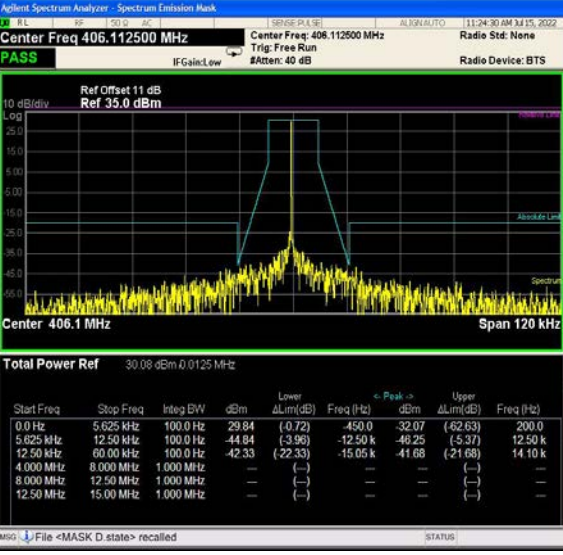
Appendix C:Emission Mask

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TX-DNH	4FSK	CH <sub>M3</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 438.012500 MHz</p> <p>Ref Offset 11 dB Ref 40.0 dBm</p> <p>Total Power Ref 35.24 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>Peak dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>35.13</td> <td>(-0.79)</td> <td>-500.0</td> <td>-22.44</td> <td>(-58.36)</td> <td>50.00</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-38.17</td> <td>(-4.47)</td> <td>-12.25 k</td> <td>-41.39</td> <td>(-7.89)</td> <td>12.25 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-37.91</td> <td>(-17.91)</td> <td>-12.95 k</td> <td>-38.09</td> <td>(-18.09)</td> <td>13.45 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.13	(-0.79)	-500.0	-22.44	(-58.36)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-38.17	(-4.47)	-12.25 k	-41.39	(-7.89)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.91	(-17.91)	-12.95 k	-38.09	(-18.09)	13.45 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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**Appendix C:Emission Mask**

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Appendix C:Emission Mask

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TX-DNL	4FSK	CH <sub>M1</sub>	 <p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 405.987500 MHz</p> <p>Ref Offset 11 dB Ref 35.0 dBm</p> <p>Total Power Ref 29.93 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>&lt; Peak &gt; 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>29.83</td> <td>(-0.71)</td> <td>-500.0</td> <td>-26.88</td> <td>(-57.42)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-11.92</td> <td>(-6.47)</td> <td>-11.75 k</td> <td>-47.41</td> <td>(-6.87)</td> <td>12.45 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-40.56</td> <td>(-20.56)</td> <td>-14.45 k</td> <td>-42.28</td> <td>(-22.28)</td> <td>13.45 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	29.83	(-0.71)	-500.0	-26.88	(-57.42)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-11.92	(-6.47)	-11.75 k	-47.41	(-6.87)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.56	(-20.56)	-14.45 k	-42.28	(-22.28)	13.45 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

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TX-DNL	4FSK	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 469.987500 MHz</p> <p>Ref Offset 11 dB Ref 34.0 dBm</p> <p>Total Power Ref 28.84 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>28.85</td> <td>(-0.78)</td> <td>-450.0</td> <td>-34.67</td> <td>(-64.30)</td> <td>150.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-44.94</td> <td>(-4.22)</td> <td>-12.35 k</td> <td>-50.40</td> <td>(-8.96)</td> <td>12.45 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-43.22</td> <td>(-23.22)</td> <td>-17.10 k</td> <td>-46.22</td> <td>(-26.22)</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	28.85	(-0.78)	-450.0	-34.67	(-64.30)	150.0	5.625 kHz	12.50 kHz	100.0 Hz	-44.94	(-4.22)	-12.35 k	-50.40	(-8.96)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.22	(-23.22)	-17.10 k	-46.22	(-26.22)	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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TX-DNL	4FSK	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 469.987500 MHz</p> <p>Ref Offset 11 dB Ref 34.0 dBm</p> <p>Total Power Ref 32.05 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>18.37</td> <td>(-11.26)</td> <td>1.000 k</td> <td>20.96</td> <td>(-8.67)</td> <td>200.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-45.55</td> <td>(-3.75)</td> <td>-12.50 k</td> <td>-43.95</td> <td>(-2.15)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-42.68</td> <td>(-22.68)</td> <td>-12.65 k</td> <td>-44.20</td> <td>(-24.20)</td> <td>16.00 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	18.37	(-11.26)	1.000 k	20.96	(-8.67)	200.0	5.625 kHz	12.50 kHz	100.0 Hz	-45.55	(-3.75)	-12.50 k	-43.95	(-2.15)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.68	(-22.68)	-12.65 k	-44.20	(-24.20)	16.00 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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5.625 kHz	12.50 kHz	100.0 Hz	-20.08	(-5.85)	-10.50 k	-35.00	(-9.49)	12.05 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-33.58	(-13.58)	-12.95 k	-35.63	(-15.83)	13.00 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANH	FM	CH <sub>M2</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 406.112500 MHz</p> <p>Ref Offset 11 dB Ref 41.0 dBm</p> <p>Total Power Ref 35.75 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>Peak dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>35.65</td> <td>(-1.04)</td> <td>-450.0</td> <td>-26.97</td> <td>(-63.66)</td> <td>1.950 k</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-36.91</td> <td>(-3.62)</td> <td>-12.30 k</td> <td>-37.00</td> <td>(-3.71)</td> <td>12.30 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-37.29</td> <td>(-17.29)</td> <td>-14.10 k</td> <td>-37.93</td> <td>(-17.93)</td> <td>13.15 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.65	(-1.04)	-450.0	-26.97	(-63.66)	1.950 k	5.625 kHz	12.50 kHz	100.0 Hz	-36.91	(-3.62)	-12.30 k	-37.00	(-3.71)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.29	(-17.29)	-14.10 k	-37.93	(-17.93)	13.15 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANH	FM	CH <sub>M2</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 406.112500 MHz</p> <p>Ref Offset 17 dB Ref 47.0 dBm</p> <p>Total Power Ref 35.80 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>34.06</td> <td>(-8.67)</td> <td>-450.0</td> <td>27.77</td> <td>(-14.96)</td> <td>2.050 k</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-19.60</td> <td>(-5.44)</td> <td>-10.50 k</td> <td>-36.09</td> <td>(-7.39)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-33.79</td> <td>(-13.79)</td> <td>-13.00 k</td> <td>-35.92</td> <td>(-15.92)</td> <td>17.50 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	34.06	(-8.67)	-450.0	27.77	(-14.96)	2.050 k	5.625 kHz	12.50 kHz	100.0 Hz	-19.60	(-5.44)	-10.50 k	-36.09	(-7.39)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.79	(-13.79)	-13.00 k	-35.92	(-15.92)	17.50 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 <sub>M3</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 438.012500 MHz</p> <p>Ref Offset 11 dB Ref 40.0 dBm</p> <p>Total Power Ref 35.24 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>Peak dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>35.24</td> <td>(-1.04)</td> <td>-450.0</td> <td>-27.43</td> <td>(-63.71)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-41.91</td> <td>(-7.48)</td> <td>-12.40 k</td> <td>-38.78</td> <td>(-3.82)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-37.53</td> <td>(-17.53)</td> <td>-13.00 k</td> <td>-36.07</td> <td>(-16.07)</td> <td>16.75 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.24	(-1.04)	-450.0	-27.43	(-63.71)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.91	(-7.48)	-12.40 k	-38.78	(-3.82)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.53	(-17.53)	-13.00 k	-36.07	(-16.07)	16.75 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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**Appendix C:Emission Mask**

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TX-ANH	FM	CH <sub>M3</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 438.012500 MHz    Center Freq: 438.012500 MHz    Radio Std: None</p> <p>PASS    IF Gain: Low    #Atten: 40 dB    Avg: 100.00% of 10    Radio Device: BTS</p> <p>Ref Offset 17 dB Ref 40.0 dBm</p> <p>Center 438 MHz    Span 120 kHz</p> <p>Total Power Ref    34.88 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>Peak dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>32.83</td> <td>(-9.23)</td> <td>-450.0</td> <td>26.47</td> <td>(-15.59)</td> <td>2.050 k</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-35.54</td> <td>(-6.52)</td> <td>-12.45 k</td> <td>-35.30</td> <td>(-8.83)</td> <td>12.10 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-35.35</td> <td>(-15.35)</td> <td>-14.40 k</td> <td>-35.36</td> <td>(-15.36)</td> <td>13.10 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table> <p>File &lt;Temp.png&gt; saved    STATUS</p>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	32.83	(-9.23)	-450.0	26.47	(-15.59)	2.050 k	5.625 kHz	12.50 kHz	100.0 Hz	-35.54	(-6.52)	-12.45 k	-35.30	(-8.83)	12.10 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.35	(-15.35)	-14.40 k	-35.36	(-15.36)	13.10 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANH	FM	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 469.987500 MHz    Center Freq: 469.987500 MHz    Radio Std: None</p> <p>PASS    IF Gain: Low    #Atten: 40 dB    Avg: 100.00% of 10    Radio Device: BTS</p> <p>Ref Offset 11 dB Ref 41.0 dBm</p> <p>Center 470 MHz    Span 120 kHz</p> <p>Total Power Ref    35.49 dBm @ 0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>Peak dBm</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>35.51</td> <td>(-1.10)</td> <td>-450.0</td> <td>28.51</td> <td>(65.12)</td> <td>2.550 k</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-40.89</td> <td>(-8.23)</td> <td>-12.45 k</td> <td>-41.55</td> <td>(-7.45)</td> <td>12.40 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-36.34</td> <td>(-16.34)</td> <td>-13.20 k</td> <td>-37.17</td> <td>(-17.17)</td> <td>17.65 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> <p>File &lt;MASK D.state&gt; recalled    STATUS</p>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.51	(-1.10)	-450.0	28.51	(65.12)	2.550 k	5.625 kHz	12.50 kHz	100.0 Hz	-40.89	(-8.23)	-12.45 k	-41.55	(-7.45)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.34	(-16.34)	-13.20 k	-37.17	(-17.17)	17.65 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANH	FM	CH <sub>H</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 469.987500 MHz    Center Freq: 469.987500 MHz    Radio Std: None</p> <p>PASS    IF Gain: Low    #Atten: 40 dB    Avg: 100.00% of 10    Radio Device: BTS</p> <p>Ref Offset 17 dB Ref 47.0 dBm</p> <p>Center 470 MHz    Span 120 kHz</p> <p>Total Power Ref    35.04 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>33.19</td> <td>(-9.32)</td> <td>-450.0</td> <td>26.85</td> <td>(-15.66)</td> <td>2.050 k</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-20.70</td> <td>(-6.88)</td> <td>-10.45 k</td> <td>-38.71</td> <td>(-9.24)</td> <td>12.30 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-34.76</td> <td>(-14.76)</td> <td>-12.95 k</td> <td>-37.40</td> <td>(-17.40)</td> <td>18.05 k</td> </tr> <tr> <td>4.000 MHz</td> <td>8.000 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>8.000 MHz</td> <td>12.50 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> <tr> <td>12.50 MHz</td> <td>15.00 MHz</td> <td>1.000 MHz</td> <td>—</td> <td>(—)</td> <td>—</td> <td>—</td> <td>(—)</td> <td>—</td> </tr> </tbody> </table> <p>File &lt;Temp.png&gt; saved    STATUS</p>	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	33.19	(-9.32)	-450.0	26.85	(-15.66)	2.050 k	5.625 kHz	12.50 kHz	100.0 Hz	-20.70	(-6.88)	-10.45 k	-38.71	(-9.24)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.76	(-14.76)	-12.95 k	-37.40	(-17.40)	18.05 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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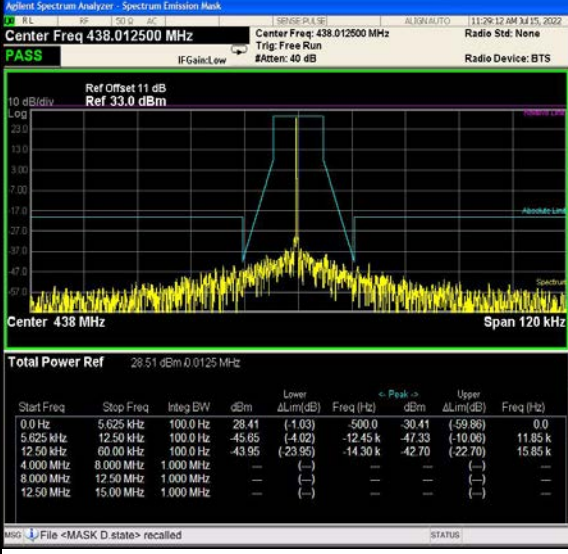
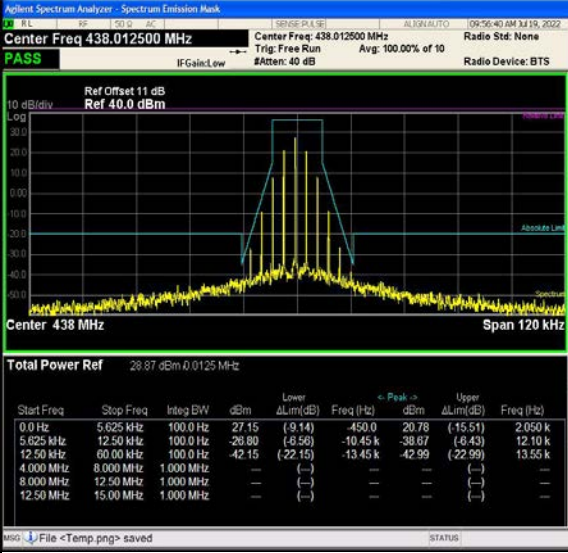
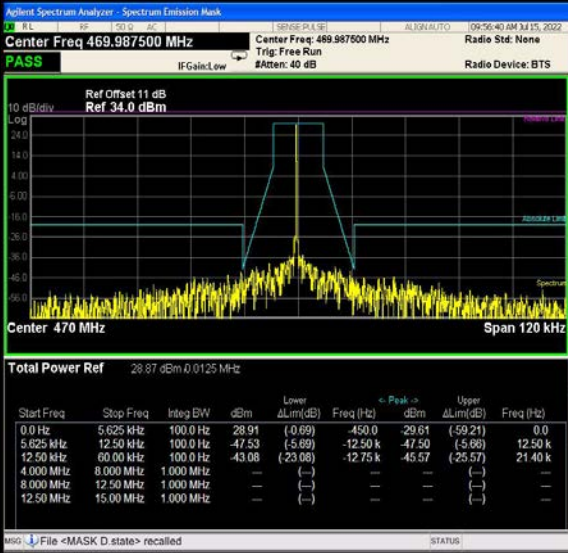
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH <sub>L</sub>	<p><b>Center Freq 400.012500 MHz</b>  <b>Ref 34.0 dBm</b>  <b>Total Power Ref 29.71 dBm @ 0.0125 MHz</b></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>29.76</td> <td>(-0.66)</td> <td>-450.0</td> <td>-33.51</td> <td>(63.94)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-44.11</td> <td>(-3.48)</td> <td>-12.45 k</td> <td>-43.81</td> <td>(-3.89)</td> <td>12.35 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-41.30</td> <td>(-21.30)</td> <td>-12.85 k</td> <td>-42.40</td> <td>(22.40)</td> <td>15.70 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)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	29.76	(-0.66)	-450.0	-33.51	(63.94)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-44.11	(-3.48)	-12.45 k	-43.81	(-3.89)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.30	(-21.30)	-12.85 k	-42.40	(22.40)	15.70 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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Appendix C:Emission Mask

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TX-ANL	FM	CH <sub>M2</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 406.112500 MHz</p> <p>Ref Offset 11 dB Ref 34.0 dBm</p> <p>Total Power Ref 29.67 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>29.81</td> <td>(-0.69)</td> <td>-450.0</td> <td>33.29</td> <td>(-63.79)</td> <td>2.160 k</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-48.64</td> <td>(-8.43)</td> <td>-12.40 k</td> <td>-40.33</td> <td>(-1.93)</td> <td>12.15 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-42.42</td> <td>(-22.42)</td> <td>-12.50 k</td> <td>-42.67</td> <td>(-22.67)</td> <td>14.90 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 Hz	5.625 kHz	100.0 Hz	29.81	(-0.69)	-450.0	33.29	(-63.79)	2.160 k	5.625 kHz	12.50 kHz	100.0 Hz	-48.64	(-8.43)	-12.40 k	-40.33	(-1.93)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.42	(-22.42)	-12.50 k	-42.67	(-22.67)	14.90 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

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TX-ANL	FM	CH <sub>M3</sub>	 <p><b>Agilent Spectrum Analyzer - Spectrum Emission Mask</b></p> <p>Center Freq: 438.012500 MHz   Center Freq: 438.012500 MHz   Radio Std: None</p> <p>IF Gain: Low   #Atten: 40 dB   Radio Device: BTS</p> <p>Ref Offset: 11 dB   Ref: 33.0 dBm</p> <p>Center: 438 MHz   Span: 120 kHz</p> <p>Total Power Ref: 28.51 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>28.41</td> <td>(-1.03)</td> <td>-500.0</td> <td>-30.41</td> <td>(-59.86)</td> <td>0.0</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-45.85</td> <td>(-4.02)</td> <td>-12.45 k</td> <td>-47.33</td> <td>(-10.00)</td> <td>11.85 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-43.95</td> <td>(-23.95)</td> <td>-14.30 k</td> <td>-42.70</td> <td>(-22.70)</td> <td>15.85 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	28.41	(-1.03)	-500.0	-30.41	(-59.86)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-45.85	(-4.02)	-12.45 k	-47.33	(-10.00)	11.85 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.95	(-23.95)	-14.30 k	-42.70	(-22.70)	15.85 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**

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TX-ANL	FM	CH <sub>H</sub>	<p>The screenshot shows an Agilent Spectrum Analyzer interface. The main display is a spectrum plot with a center frequency of 469.987500 MHz and a span of 120 kHz. The plot shows a signal with a peak at approximately 27.38 dBm. The interface includes a control panel on the right with settings for Frequency, CF Step (12.000 kHz), and Freq Offset (0 Hz). Below the plot is a 'Total Power Ref' table with the following data:</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Freq (Hz)</th> <th>Peak (dBm)</th> <th>Upper ΔLim(dB)</th> <th>Freq (Hz)</th> </tr> </thead> <tbody> <tr> <td>0.0 Hz</td> <td>5.625 kHz</td> <td>100.0 Hz</td> <td>27.38</td> <td>(-9.24)</td> <td>-450.0</td> <td>21.05</td> <td>(-15.56)</td> <td>2.050 k</td> </tr> <tr> <td>5.625 kHz</td> <td>12.50 kHz</td> <td>100.0 Hz</td> <td>-25.04</td> <td>(-6.72)</td> <td>-10.45 k</td> <td>-43.25</td> <td>(-8.43)</td> <td>12.50 k</td> </tr> <tr> <td>12.50 kHz</td> <td>60.00 kHz</td> <td>100.0 Hz</td> <td>-40.52</td> <td>(-20.55)</td> <td>-12.95 k</td> <td>-39.47</td> <td>(-19.47)</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	27.38	(-9.24)	-450.0	21.05	(-15.56)	2.050 k	5.625 kHz	12.50 kHz	100.0 Hz	-25.04	(-6.72)	-10.45 k	-43.25	(-8.43)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.52	(-20.55)	-12.95 k	-39.47	(-19.47)	13.05 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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12.50 kHz	60.00 kHz	100.0 Hz	-40.52	(-20.55)	-12.95 k	-39.47	(-19.47)	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	—	(—)	—	—	(—)	—																																																										



**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 <sub>M2</sub>	-20	0.090	0.189	0.248	0.327	2.5	PASS
TX-ANH	FM	CH <sub>M2</sub>	-15	0.125	0.301	0.398	0.551	2.5	PASS
TX-ANH	FM	CH <sub>M2</sub>	-10	0.188	0.505	0.681	0.948	2.5	PASS
TX-ANH	FM	CH <sub>M2</sub>	-5	0.306	0.849	1.184	1.642	2.5	PASS
TX-ANH	FM	CH <sub>M2</sub>	0	0.519	1.533	2.123	2.244	2.5	PASS
TX-ANH	FM	CH <sub>M2</sub>	5	0.895	2.284	2.273	2.240	2.5	PASS
TX-ANH	FM	CH <sub>M2</sub>	10	1.567	2.290	2.271	2.251	2.5	PASS
TX-ANH	FM	CH <sub>M2</sub>	15	2.244	2.293	2.278	2.244	2.5	PASS
TX-ANH	FM	CH <sub>M2</sub>	20	2.253	2.297	2.274	2.257	2.5	PASS

Appendix D:Modulation Limit

**TEST PLOT RESULT**

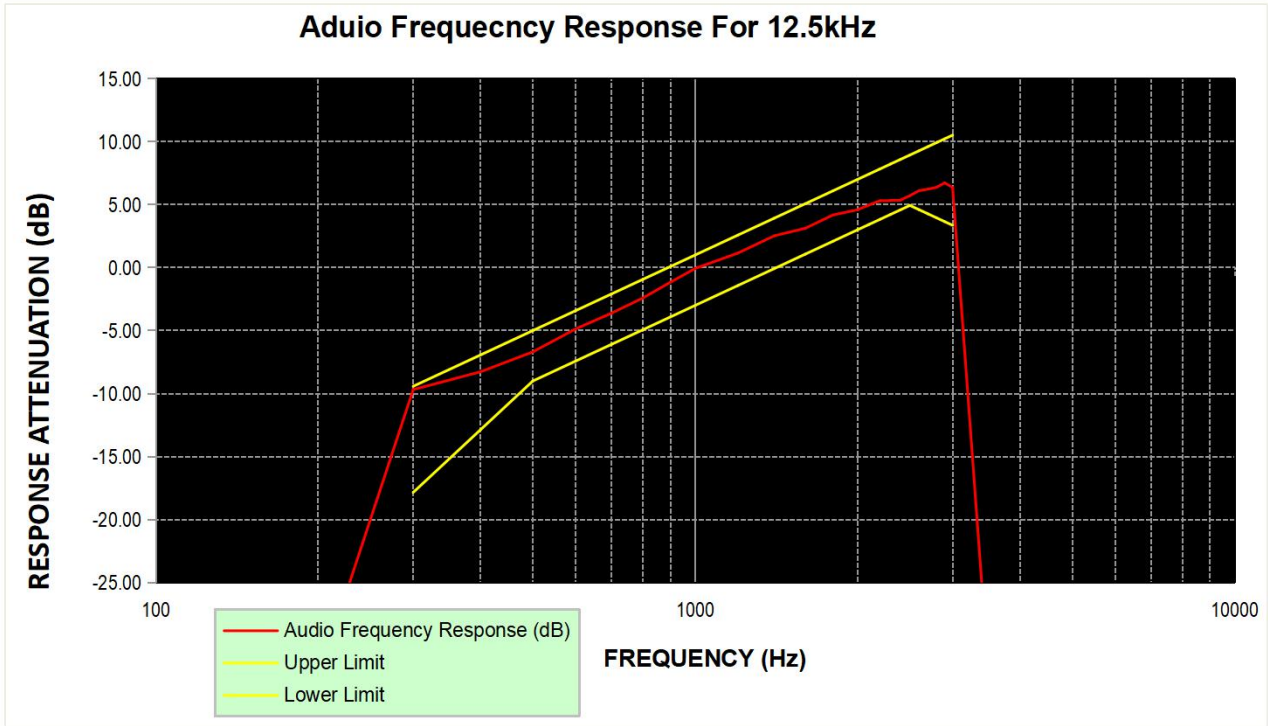


**Appendix E:Audio Frequency Response**

Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-ANH	FM	CH <sub>M2</sub>	100	-32.37			PASS
TX-ANH	FM	CH <sub>M2</sub>	200	-32.57			PASS
TX-ANH	FM	CH <sub>M2</sub>	300	-9.68	-17.84	-9.42	PASS
TX-ANH	FM	CH <sub>M2</sub>	400	-8.27	-12.86	-6.93	PASS
TX-ANH	FM	CH <sub>M2</sub>	500	-6.69	-9.00	-5.00	PASS
TX-ANH	FM	CH <sub>M2</sub>	600	-4.87	-7.42	-3.42	PASS
TX-ANH	FM	CH <sub>M2</sub>	700	-3.61	-6.09	-2.09	PASS
TX-ANH	FM	CH <sub>M2</sub>	800	-2.41	-4.93	-0.93	PASS
TX-ANH	FM	CH <sub>M2</sub>	900	-1.16	-3.91	0.09	PASS
TX-ANH	FM	CH <sub>M2</sub>	1000	-0.07	-3.00	1.00	PASS
TX-ANH	FM	CH <sub>M2</sub>	1200	1.15	-1.42	2.58	PASS
TX-ANH	FM	CH <sub>M2</sub>	1400	2.52	-0.09	3.91	PASS
TX-ANH	FM	CH <sub>M2</sub>	1600	3.12	1.07	5.07	PASS
TX-ANH	FM	CH <sub>M2</sub>	1800	4.17	2.09	6.09	PASS
TX-ANH	FM	CH <sub>M2</sub>	2000	4.59	3.00	7.00	PASS
TX-ANH	FM	CH <sub>M2</sub>	2100	4.97	3.42	7.42	PASS
TX-ANH	FM	CH <sub>M2</sub>	2200	5.31	3.83	7.83	PASS
TX-ANH	FM	CH <sub>M2</sub>	2300	5.34	4.21	8.21	PASS
TX-ANH	FM	CH <sub>M2</sub>	2400	5.35	4.58	8.58	PASS
TX-ANH	FM	CH <sub>M2</sub>	2500	5.71	4.93	8.93	PASS
TX-ANH	FM	CH <sub>M2</sub>	2600	6.10	4.59	9.27	PASS
TX-ANH	FM	CH <sub>M2</sub>	2700	6.22	4.27	9.60	PASS
TX-ANH	FM	CH <sub>M2</sub>	2800	6.37	3.95	9.91	PASS
TX-ANH	FM	CH <sub>M2</sub>	2900	6.72	3.65	10.22	PASS
TX-ANH	FM	CH <sub>M2</sub>	3000	6.35	3.35	10.51	PASS
TX-ANH	FM	CH <sub>M2</sub>	3500	-32.58			PASS
TX-ANH	FM	CH <sub>M2</sub>	4000	-32.83			PASS
TX-ANH	FM	CH <sub>M2</sub>	4500	-32.55			PASS
TX-ANH	FM	CH <sub>M2</sub>	5000	-32.57			PASS

Appendix E:Audio Frequency Response

TEST PLOT RESULT



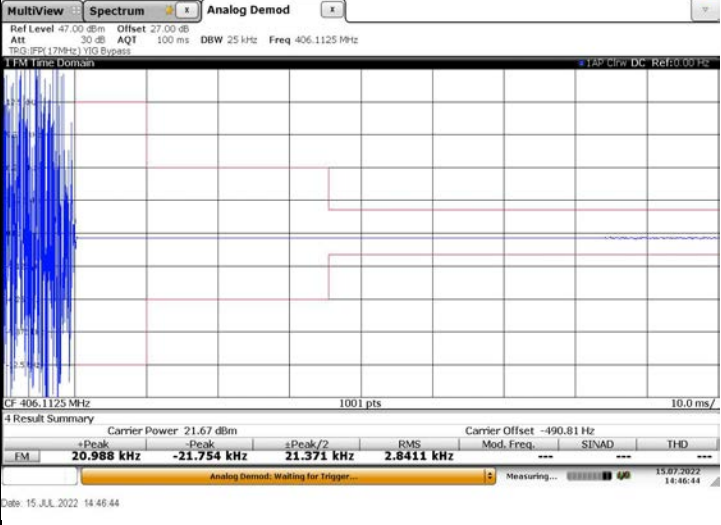
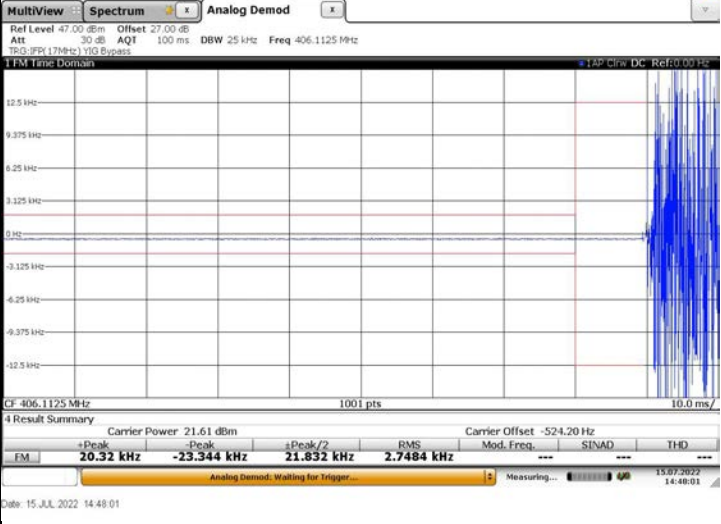
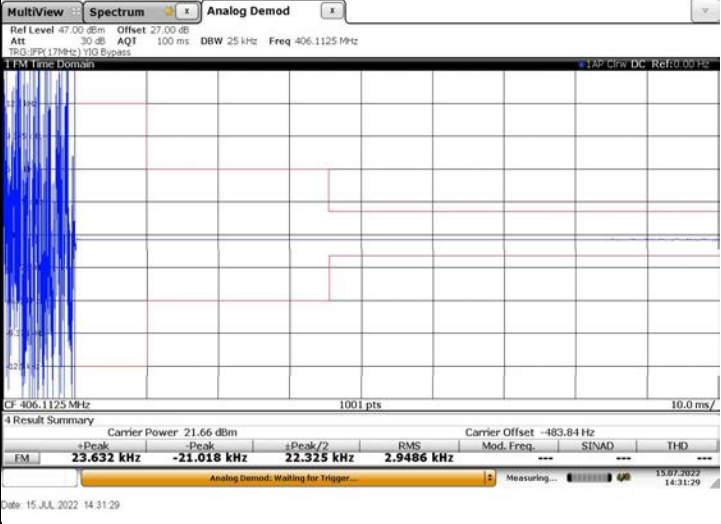
**Appendix F:Frequency Stability Test & Temperature**

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)					Limit (ppm)	Result
		Voltage	Temperature	CH <sub>L</sub>	CH <sub>M1</sub>	CH <sub>M2</sub>	CH <sub>M3</sub>	CH <sub>H</sub>		
TX-DNH	4FSK	V <sub>N</sub>	-30	-1.339	-1.351	-1.368	-1.193	-1.137	±2.5	PASS
TX-DNH	4FSK	V <sub>N</sub>	-20	-1.293	-1.398	-1.346	-1.299	-1.135	±2.5	PASS
TX-DNH	4FSK	V <sub>N</sub>	-10	-1.370	-1.406	-1.257	-1.222	-1.119	±2.5	PASS
TX-DNH	4FSK	V <sub>N</sub>	0	-1.312	-1.364	-1.364	-1.216	-1.216	±2.5	PASS
TX-DNH	4FSK	V <sub>N</sub>	10	-1.360	-1.375	-1.347	-1.303	-1.207	±2.5	PASS
TX-DNH	4FSK	V <sub>N</sub>	20	-1.290	-1.291	-1.256	-1.185	-1.106	±2.5	PASS
TX-DNH	4FSK	V <sub>N</sub>	30	-1.410	-1.397	-1.293	-1.235	-1.161	±2.5	PASS
TX-DNH	4FSK	V <sub>N</sub>	40	-1.367	-1.371	-1.365	-1.251	-1.177	±2.5	PASS
TX-DNH	4FSK	V <sub>N</sub>	50	-1.405	-1.389	-1.366	-1.229	-1.106	±2.5	PASS
TX-DNL	4FSK	V <sub>N</sub>	-30	-1.351	-1.309	-1.328	-1.186	-1.179	±2.5	PASS
TX-DNL	4FSK	V <sub>N</sub>	-20	-1.365	-1.283	-1.408	-1.206	-1.159	±2.5	PASS
TX-DNL	4FSK	V <sub>N</sub>	-10	-1.385	-1.359	-1.397	-1.166	-1.203	±2.5	PASS
TX-DNL	4FSK	V <sub>N</sub>	0	-1.386	-1.376	-1.296	-1.239	-1.113	±2.5	PASS
TX-DNL	4FSK	V <sub>N</sub>	10	-1.390	-1.329	-1.357	-1.237	-1.113	±2.5	PASS
TX-DNL	4FSK	V <sub>N</sub>	20	-1.305	-1.261	-1.280	-1.153	-1.100	±2.5	PASS
TX-DNL	4FSK	V <sub>N</sub>	30	-1.433	-1.333	-1.365	-1.229	-1.176	±2.5	PASS
TX-DNL	4FSK	V <sub>N</sub>	40	-1.403	-1.356	-1.330	-1.212	-1.121	±2.5	PASS
TX-DNL	4FSK	V <sub>N</sub>	50	-1.390	-1.266	-1.364	-1.182	-1.159	±2.5	PASS
TX-ANH	FM	V <sub>N</sub>	-30	-1.161	-1.044	-1.018	-1.024	-0.966	±2.5	PASS
TX-ANH	FM	V <sub>N</sub>	-20	-1.202	-0.996	-1.075	-1.009	-0.948	±2.5	PASS
TX-ANH	FM	V <sub>N</sub>	-10	-1.147	-1.010	-1.033	-0.978	-1.002	±2.5	PASS
TX-ANH	FM	V <sub>N</sub>	0	-1.119	-0.993	-1.036	-1.065	-0.929	±2.5	PASS
TX-ANH	FM	V <sub>N</sub>	10	-1.165	-1.000	-1.084	-1.051	-0.930	±2.5	PASS
TX-ANH	FM	V <sub>N</sub>	20	-1.116	-0.987	-0.995	-0.977	-0.915	±2.5	PASS
TX-ANH	FM	V <sub>N</sub>	30	-1.151	-1.056	-1.027	-0.998	-0.944	±2.5	PASS
TX-ANH	FM	V <sub>N</sub>	40	-1.154	-1.023	-1.072	-0.990	-0.917	±2.5	PASS
TX-ANH	FM	V <sub>N</sub>	50	-1.139	-1.061	-1.030	-1.013	-0.934	±2.5	PASS
TX-ANL	FM	V <sub>N</sub>	-30	-1.137	-1.024	-1.072	-0.988	-0.959	±2.5	PASS
TX-ANL	FM	V <sub>N</sub>	-20	-1.072	-1.049	-1.052	-0.958	-0.890	±2.5	PASS
TX-ANL	FM	V <sub>N</sub>	-10	-1.086	-1.085	-1.023	-0.995	-0.878	±2.5	PASS
TX-ANL	FM	V <sub>N</sub>	0	-1.097	-1.054	-1.011	-0.952	-0.897	±2.5	PASS
TX-ANL	FM	V <sub>N</sub>	10	-1.148	-1.001	-1.048	-0.933	-0.954	±2.5	PASS
TX-ANL	FM	V <sub>N</sub>	20	-1.048	-0.990	-0.994	-0.906	-0.874	±2.5	PASS
TX-ANL	FM	V <sub>N</sub>	30	-1.092	-1.058	-1.018	-0.919	-0.875	±2.5	PASS
TX-ANL	FM	V <sub>N</sub>	40	-1.126	-1.034	-1.093	-0.929	-0.912	±2.5	PASS
TX-ANL	FM	V <sub>N</sub>	50	-1.117	-0.998	-1.041	-0.921	-0.935	±2.5	PASS

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

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)					Limit (ppm)	Result
		Voltage	Temperature	CH <sub>L</sub>	CH <sub>M1</sub>	CH <sub>M2</sub>	CH <sub>M3</sub>	CH <sub>H</sub>		
TX-DNH	4FSK	V <sub>N</sub>	T <sub>N</sub>	-1.290	-1.291	-1.256	-1.185	-1.106	±2.5	PASS
TX-DNH	4FSK	V <sub>L</sub>	T <sub>N</sub>	-1.296	-1.302	-1.257	-1.197	-1.116	±2.5	PASS
TX-DNH	4FSK	V <sub>H</sub>	T <sub>N</sub>	-1.369	-1.324	-1.300	-1.231	-1.126	±2.5	PASS
TX-DNL	4FSK	V <sub>N</sub>	T <sub>N</sub>	-1.305	-1.261	-1.280	-1.153	-1.100	±2.5	PASS
TX-DNL	4FSK	V <sub>L</sub>	T <sub>N</sub>	-1.323	-1.275	-1.302	-1.161	-1.120	±2.5	PASS
TX-DNL	4FSK	V <sub>H</sub>	T <sub>N</sub>	-1.382	-1.290	-1.287	-1.216	-1.110	±2.5	PASS
TX-ANH	FM	V <sub>N</sub>	T <sub>N</sub>	-1.116	-0.987	-0.995	-0.977	-0.915	±2.5	PASS
TX-ANH	FM	V <sub>L</sub>	T <sub>N</sub>	-1.118	-1.004	-1.004	-0.988	-0.927	±2.5	PASS
TX-ANH	FM	V <sub>H</sub>	T <sub>N</sub>	-1.149	-1.004	-1.019	-1.002	-0.937	±2.5	PASS
TX-ANL	FM	V <sub>N</sub>	T <sub>N</sub>	-1.048	-0.990	-0.994	-0.906	-0.874	±2.5	PASS
TX-ANL	FM	V <sub>L</sub>	T <sub>N</sub>	-1.064	-0.990	-1.003	-0.919	-0.884	±2.5	PASS
TX-ANL	FM	V <sub>H</sub>	T <sub>N</sub>	-1.069	-1.002	-1.014	-0.921	-0.900	±2.5	PASS

Appendix H:Transmitter Frequency Behavior

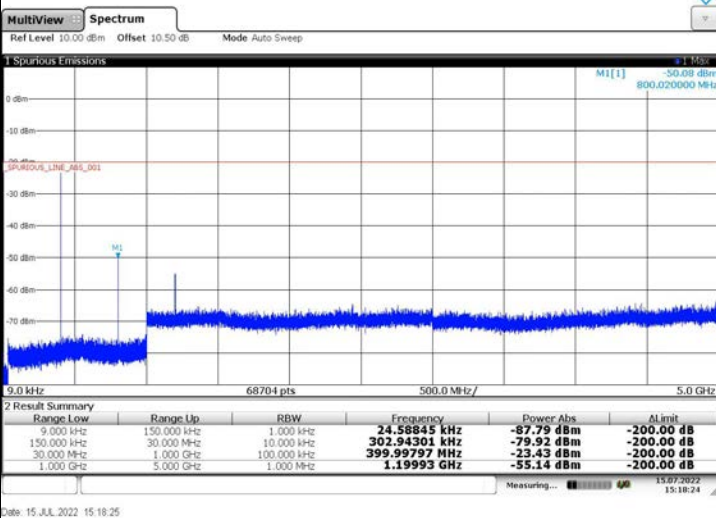
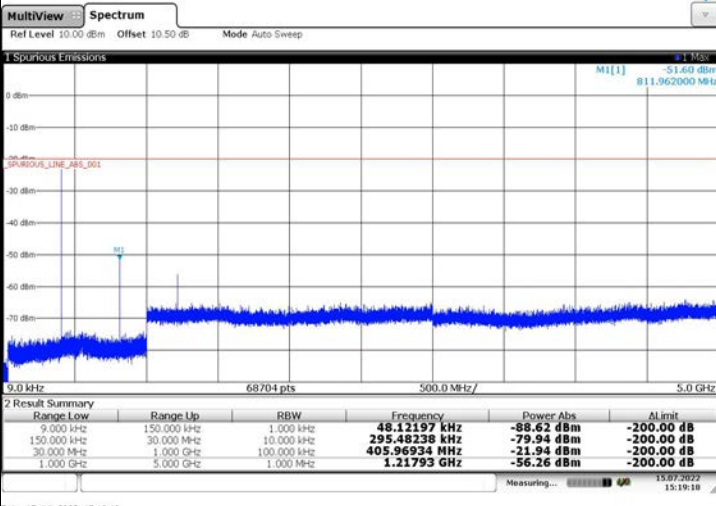
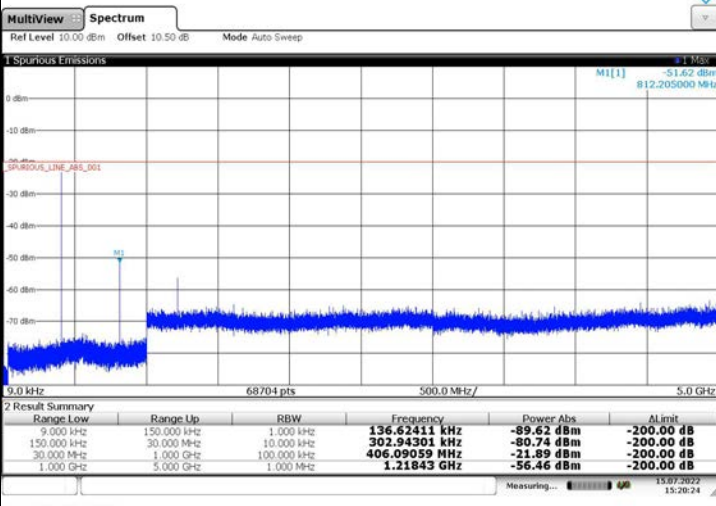
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																
TX-DNH	4FSK	CH <sub>M2</sub>	 <p>MultiView Spectrum Analog Demod</p> <p>Ref Level 47.00 dBm Offset 27.00 dB Att 30 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG: FPM (17MHz) YIG Bypass</p> <p>1 FM Time Domain</p> <p>CF 406.1125 MHz 1001 pts 10.0 ms/</p> <p>4 Result Summary</p> <table border="1"> <thead> <tr> <th>Carrier Power</th> <th>Carrier Offset</th> <th>Peak</th> <th>Peak/2</th> <th>RMS</th> <th>Mod. Freq.</th> <th>SINAD</th> <th>THD</th> </tr> </thead> <tbody> <tr> <td>21.67 dBm</td> <td>-490.81 Hz</td> <td>20.988 kHz</td> <td>21.371 kHz</td> <td>2.8411 kHz</td> <td>---</td> <td>---</td> <td>---</td> </tr> </tbody> </table> <p>Date: 15 JUL 2022 14:46:44</p>	Carrier Power	Carrier Offset	Peak	Peak/2	RMS	Mod. Freq.	SINAD	THD	21.67 dBm	-490.81 Hz	20.988 kHz	21.371 kHz	2.8411 kHz	---	---	---
Carrier Power	Carrier Offset	Peak	Peak/2	RMS	Mod. Freq.	SINAD	THD												
21.67 dBm	-490.81 Hz	20.988 kHz	21.371 kHz	2.8411 kHz	---	---	---												
TX-DNH	4FSK	CH <sub>M2</sub>	 <p>MultiView Spectrum Analog Demod</p> <p>Ref Level 47.00 dBm Offset 27.00 dB Att 30 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG: FPM (17MHz) YIG Bypass</p> <p>1 FM Time Domain</p> <p>CF 406.1125 MHz 1001 pts 10.0 ms/</p> <p>4 Result Summary</p> <table border="1"> <thead> <tr> <th>Carrier Power</th> <th>Carrier Offset</th> <th>Peak</th> <th>Peak/2</th> <th>RMS</th> <th>Mod. Freq.</th> <th>SINAD</th> <th>THD</th> </tr> </thead> <tbody> <tr> <td>21.61 dBm</td> <td>-524.20 Hz</td> <td>20.32 kHz</td> <td>21.832 kHz</td> <td>2.7484 kHz</td> <td>---</td> <td>---</td> <td>---</td> </tr> </tbody> </table> <p>Date: 15 JUL 2022 14:48:01</p>	Carrier Power	Carrier Offset	Peak	Peak/2	RMS	Mod. Freq.	SINAD	THD	21.61 dBm	-524.20 Hz	20.32 kHz	21.832 kHz	2.7484 kHz	---	---	---
Carrier Power	Carrier Offset	Peak	Peak/2	RMS	Mod. Freq.	SINAD	THD												
21.61 dBm	-524.20 Hz	20.32 kHz	21.832 kHz	2.7484 kHz	---	---	---												
TX-ANH	FM	CH <sub>M2</sub>	 <p>MultiView Spectrum Analog Demod</p> <p>Ref Level 47.00 dBm Offset 27.00 dB Att 30 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG: FPM (17MHz) YIG Bypass</p> <p>1 FM Time Domain</p> <p>CF 406.1125 MHz 1001 pts 10.0 ms/</p> <p>4 Result Summary</p> <table border="1"> <thead> <tr> <th>Carrier Power</th> <th>Carrier Offset</th> <th>Peak</th> <th>Peak/2</th> <th>RMS</th> <th>Mod. Freq.</th> <th>SINAD</th> <th>THD</th> </tr> </thead> <tbody> <tr> <td>21.66 dBm</td> <td>-483.84 Hz</td> <td>23.632 kHz</td> <td>22.325 kHz</td> <td>2.9486 kHz</td> <td>---</td> <td>---</td> <td>---</td> </tr> </tbody> </table> <p>Date: 15 JUL 2022 14:31:29</p>	Carrier Power	Carrier Offset	Peak	Peak/2	RMS	Mod. Freq.	SINAD	THD	21.66 dBm	-483.84 Hz	23.632 kHz	22.325 kHz	2.9486 kHz	---	---	---
Carrier Power	Carrier Offset	Peak	Peak/2	RMS	Mod. Freq.	SINAD	THD												
21.66 dBm	-483.84 Hz	23.632 kHz	22.325 kHz	2.9486 kHz	---	---	---												

**Appendix H:Transmitter Frequency Behavior**

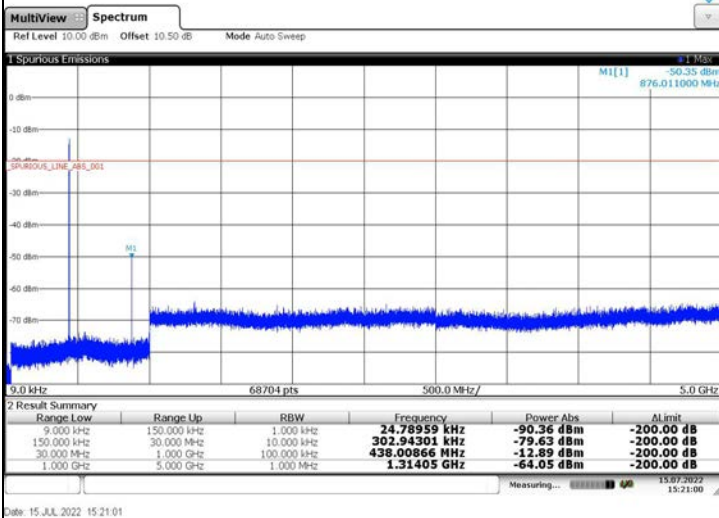
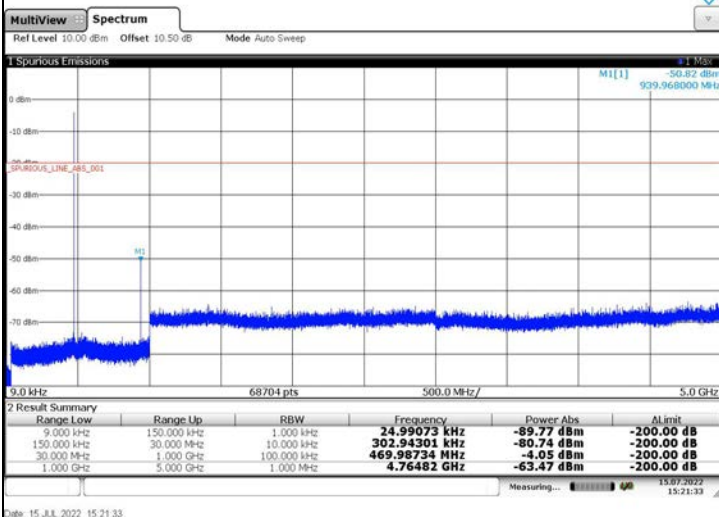
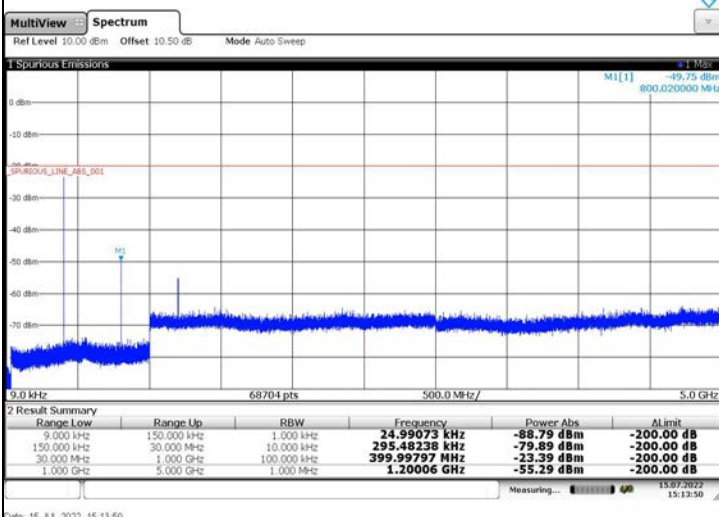
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																					
TX-ANH	FM	CH <sub>M2</sub>	<p>MultiView Spectrum Analog Demod</p> <p>Ref Level: 47.00 dBm Offset: 27.00 dB          Att: 30 dB AQT: 100 ms DBW: 25 kHz Freq: 406.1125 MHz          TRF: FPC (17MHz) 100 Bypass</p> <p>1 FM Time: Donnan 1AP Clw DC Ref: 0.00 Hz</p> <p>CF: 406.1125 MHz 1001 pts 10.0 ms/</p> <p>4 Result Summary</p> <table border="1"> <thead> <tr> <th></th> <th>Carrier Power</th> <th>Carrier Offset</th> <th></th> <th></th> <th></th> <th></th> </tr> <tr> <th></th> <th>21.64 dBm</th> <th>-521.03 Hz</th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>FM</td> <td>+Peak: 23.844 kHz</td> <td>-Peak: -29.026 kHz</td> <td>+Peak/2: 26.435 kHz</td> <td>RMS: 2.8181 kHz</td> <td>Mod. Freq.:</td> <td>SINAD: THD:</td> </tr> </tbody> </table> <p>Analog Demod: Waiting for Trigger... Measuring... 15.07.2022 14:34:08</p> <p>Date: 15 JUL 2022 14:34:09</p>		Carrier Power	Carrier Offset						21.64 dBm	-521.03 Hz					FM	+Peak: 23.844 kHz	-Peak: -29.026 kHz	+Peak/2: 26.435 kHz	RMS: 2.8181 kHz	Mod. Freq.:	SINAD: THD:
	Carrier Power	Carrier Offset																						
	21.64 dBm	-521.03 Hz																						
FM	+Peak: 23.844 kHz	-Peak: -29.026 kHz	+Peak/2: 26.435 kHz	RMS: 2.8181 kHz	Mod. Freq.:	SINAD: THD:																		



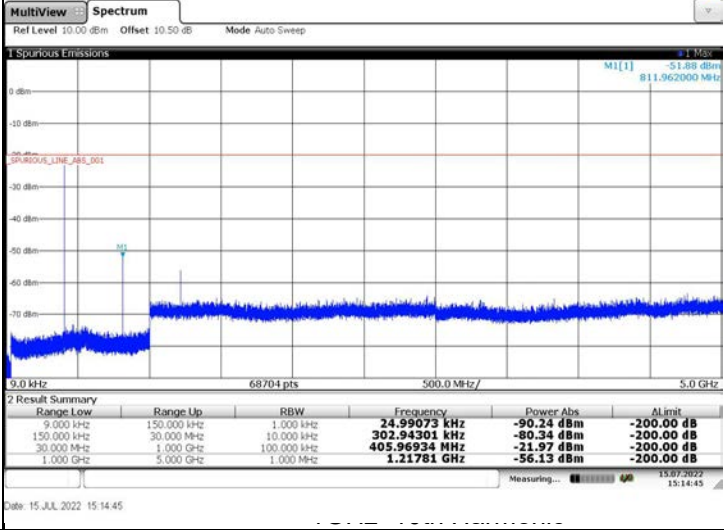
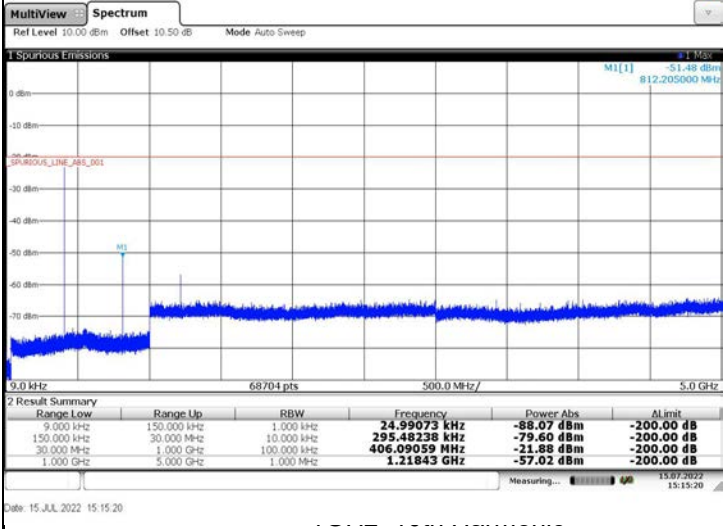
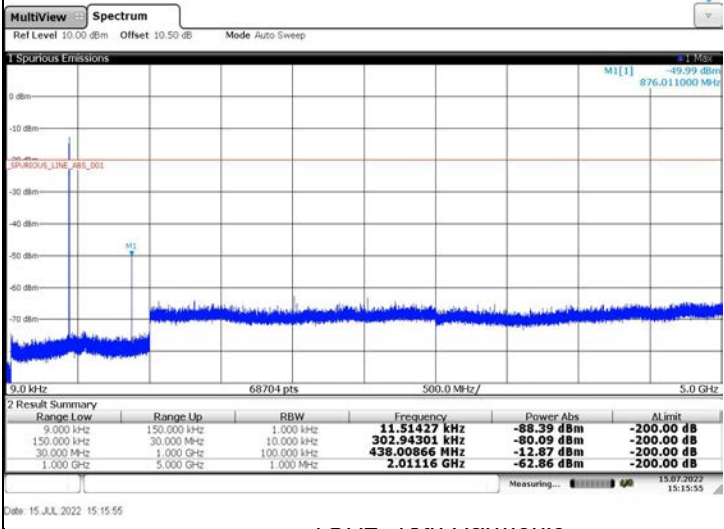
**Appendix I:Spurious Emission On Antenna Port**

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																														
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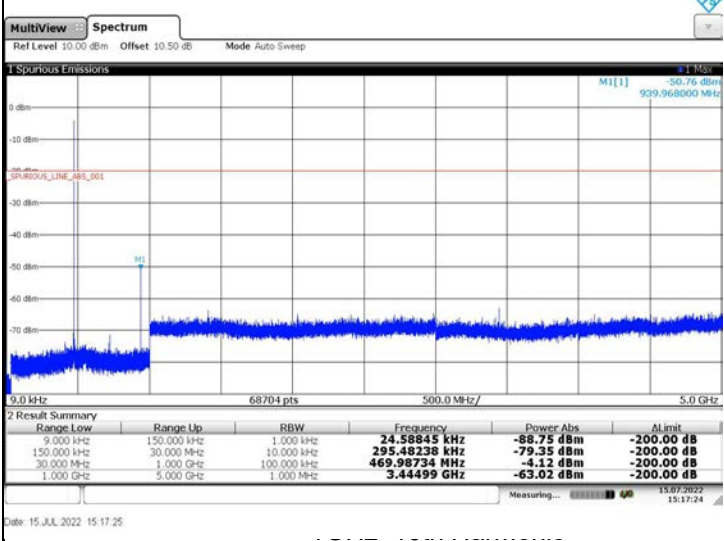
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TX-ANH	FM	CH <sub>H</sub>	 <p>The figure is a spectrum plot titled 'Spurious Emissions' showing a blue trace of signal power across a frequency range from 9.0 kHz to 5.0 GHz. The y-axis represents power in dBm, ranging from 0 to -70. A red horizontal line is drawn at approximately -200 dBm. Below the plot is a '2 Result Summary' table.</p> <table border="1"> <thead> <tr> <th>Range Low</th> <th>Range Up</th> <th>RBW</th> <th>Frequency</th> <th>Power Abs</th> <th>Alert</th> </tr> </thead> <tbody> <tr> <td>9.000 kHz</td> <td>150.000 MHz</td> <td>1.000 kHz</td> <td><b>24.58845 kHz</b></td> <td><b>-88.75 dBm</b></td> <td><b>-200.00 dB</b></td> </tr> <tr> <td>150.000 kHz</td> <td>30.000 MHz</td> <td>10.000 kHz</td> <td><b>295.48238 kHz</b></td> <td><b>-79.35 dBm</b></td> <td><b>-200.00 dB</b></td> </tr> <tr> <td>30.000 MHz</td> <td>1.000 GHz</td> <td>100.000 kHz</td> <td><b>469.98734 MHz</b></td> <td><b>-4.12 dBm</b></td> <td><b>-200.00 dB</b></td> </tr> <tr> <td>1.000 GHz</td> <td>5.000 GHz</td> <td>1.000 MHz</td> <td><b>3.44499 GHz</b></td> <td><b>-63.02 dBm</b></td> <td><b>-200.00 dB</b></td> </tr> </tbody> </table>	Range Low	Range Up	RBW	Frequency	Power Abs	Alert	9.000 kHz	150.000 MHz	1.000 kHz	<b>24.58845 kHz</b>	<b>-88.75 dBm</b>	<b>-200.00 dB</b>	150.000 kHz	30.000 MHz	10.000 kHz	<b>295.48238 kHz</b>	<b>-79.35 dBm</b>	<b>-200.00 dB</b>	30.000 MHz	1.000 GHz	100.000 kHz	<b>469.98734 MHz</b>	<b>-4.12 dBm</b>	<b>-200.00 dB</b>	1.000 GHz	5.000 GHz	1.000 MHz	<b>3.44499 GHz</b>	<b>-63.02 dBm</b>	<b>-200.00 dB</b>
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