

Project No.	SHT2204094504EW		
Test sample No.	YPHT22040945002	Model No.	UP305
Start test date	2022/7/4	Finish date	2022/8/10
Temperature	24.0℃	Humidity	47%
Test Engineer	<i>Chunshui Gu</i>	Auditor	<i>Xiaodong Zhu</i>

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

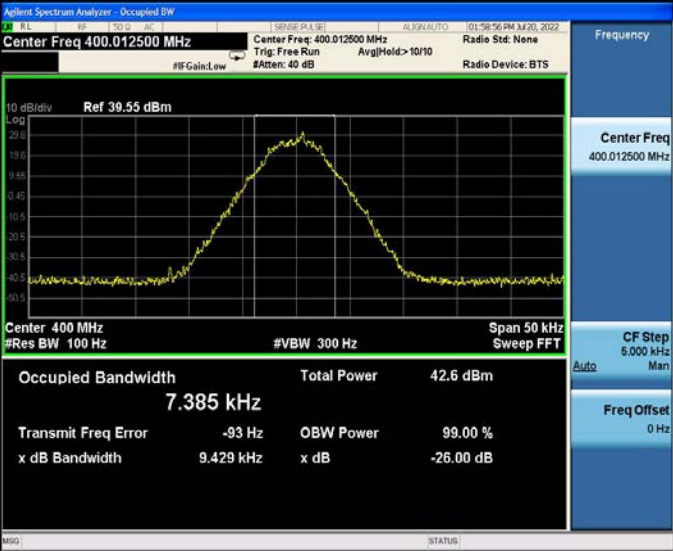
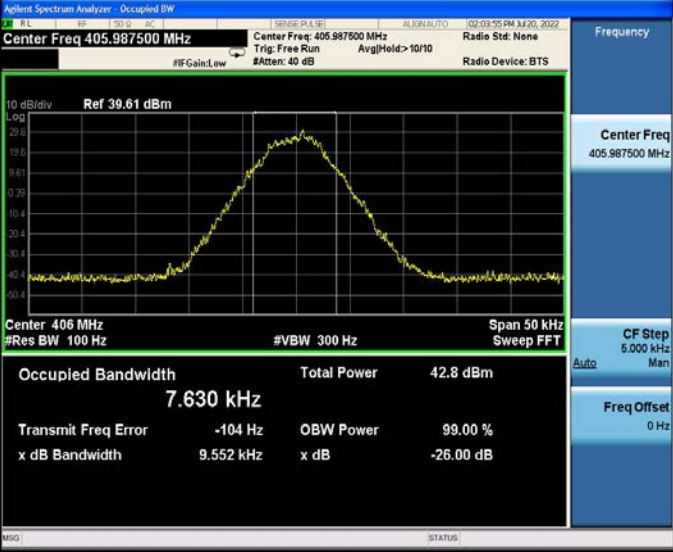
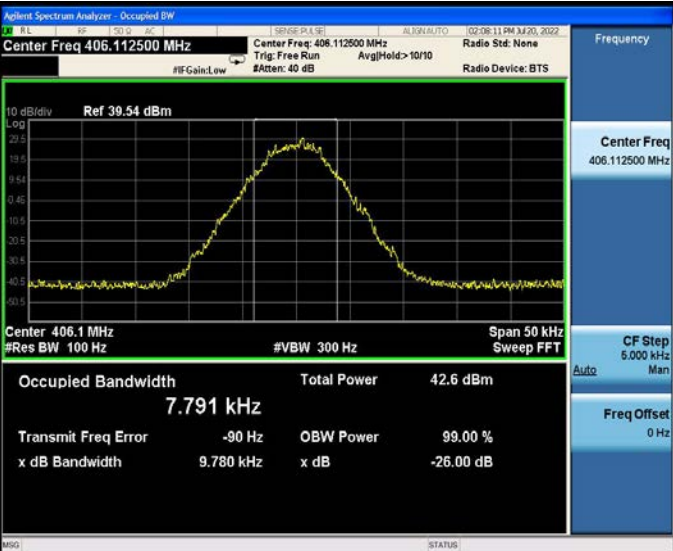
Appendix A:Maximum Transmitter Power

Operation Mode	Modulation Type	Test Channel	Measured Power (dBm)	Measured Power(W)	Rated Power(W)	Percentage (%)	Limit (%)	Result
TX-DNH	4FSK	CH _L	36.1	4.07	4.00	1.8	±20	PASS
TX-DNH	4FSK	CH _{M1}	36.2	4.17	4.00	4.3	±20	PASS
TX-DNH	4FSK	CH _{M2}	36.2	4.17	4.00	4.3	±20	PASS
TX-DNH	4FSK	CH _{M3}	36.0	3.98	4.00	-0.5	±20	PASS
TX-DNH	4FSK	CH _H	35.7	3.72	4.00	-7.0	±20	PASS
TX-DNL	4FSK	CH _L	29.2	0.83	1.00	-17.0	±20	PASS
TX-DNL	4FSK	CH _{M1}	29.1	0.81	1.00	-19.0	±20	PASS
TX-DNL	4FSK	CH _{M2}	29.1	0.81	1.00	-19.0	±20	PASS
TX-DNL	4FSK	CH _{M3}	29.7	0.93	1.00	-7.0	±20	PASS
TX-DNL	4FSK	CH _H	29.8	0.95	1.00	-5.0	±20	PASS
TX-ANH	FM	CH _L	36.4	4.37	4.00	9.3	±20	PASS
TX-ANH	FM	CH _{M1}	36.6	4.57	4.00	14.3	±20	PASS
TX-ANH	FM	CH _{M2}	36.6	4.57	4.00	14.3	±20	PASS
TX-ANH	FM	CH _{M3}	36.4	4.37	4.00	9.3	±20	PASS
TX-ANH	FM	CH _H	36.2	4.17	4.00	4.3	±20	PASS
TX-ANL	FM	CH _L	29.6	0.91	1.00	-9.0	±20	PASS
TX-ANL	FM	CH _{M1}	29.6	0.91	1.00	-9.0	±20	PASS
TX-ANL	FM	CH _{M2}	29.7	0.93	1.00	-7.0	±20	PASS
TX-ANL	FM	CH _{M3}	30.3	1.07	1.00	7.0	±20	PASS
TX-ANL	FM	CH _H	30.5	1.12	1.00	12.0	±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 _L	7.385	9.429	≤ 11.25	PASS
TX-DNH	4FSK	CH _{M1}	7.630	9.552	≤ 11.25	PASS
TX-DNH	4FSK	CH _{M2}	7.791	9.780	≤ 11.25	PASS
TX-DNH	4FSK	CH _{M3}	7.740	9.720	≤ 11.25	PASS
TX-DNH	4FSK	CH _H	7.514	9.523	≤ 11.25	PASS
TX-DNL	4FSK	CH _L	7.656	9.928	≤ 11.25	PASS
TX-DNL	4FSK	CH _{M1}	7.696	9.522	≤ 11.25	PASS
TX-DNL	4FSK	CH _{M2}	7.652	9.616	≤ 11.25	PASS
TX-DNL	4FSK	CH _{M3}	7.688	9.760	≤ 11.25	PASS
TX-DNL	4FSK	CH _H	7.642	9.549	≤ 11.25	PASS
TX-ANH	FM	CH _L	9.914	10.140	≤ 11.25	PASS
TX-ANH	FM	CH _{M1}	9.898	10.150	≤ 11.25	PASS
TX-ANH	FM	CH _{M2}	9.879	10.140	≤ 11.25	PASS
TX-ANH	FM	CH _{M3}	9.911	10.140	≤ 11.25	PASS
TX-ANH	FM	CH _H	9.901	10.140	≤ 11.25	PASS
TX-ANL	FM	CH _L	9.900	10.150	≤ 11.25	PASS
TX-ANL	FM	CH _{M1}	9.908	10.140	≤ 11.25	PASS
TX-ANL	FM	CH _{M2}	9.913	10.140	≤ 11.25	PASS
TX-ANL	FM	CH _{M3}	9.906	10.140	≤ 11.25	PASS
TX-ANL	FM	CH _H	9.899	10.140	≤ 11.25	PASS

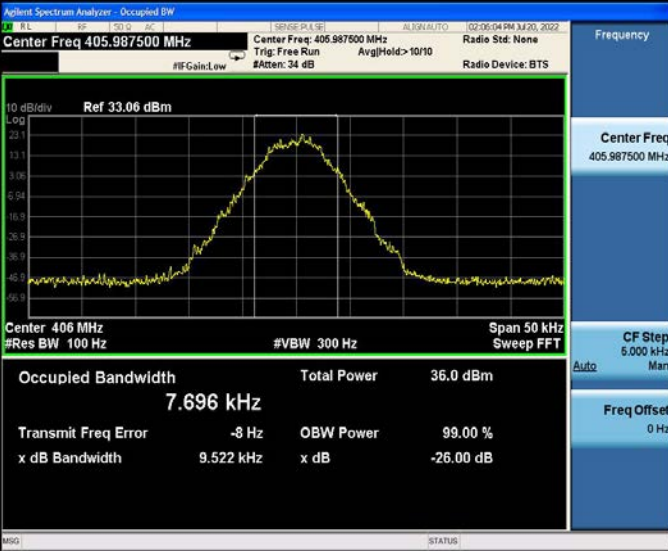
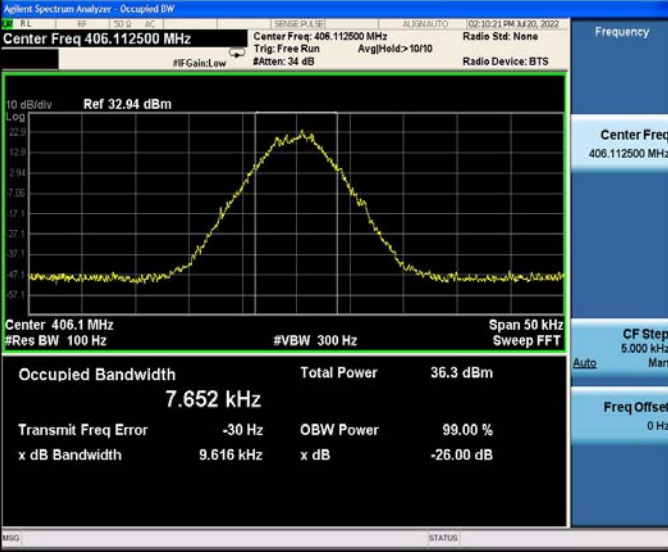
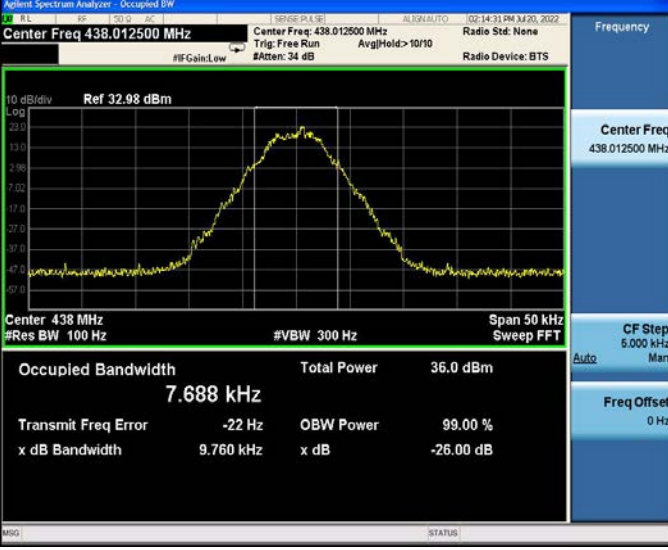
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	 Agilent Spectrum Analyzer - Occupied BW Center Freq 400.012500 MHz Ref 39.55 dBm Occupied Bandwidth 7.385 kHz Total Power 42.6 dBm Transmit Freq Error -93 Hz OBW Power 99.00 % x dB Bandwidth 9.429 kHz x dB -26.00 dB
TX-DNH	4FSK	CH _{M1}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 405.987500 MHz Ref 39.61 dBm Occupied Bandwidth 7.630 kHz Total Power 42.8 dBm Transmit Freq Error -104 Hz OBW Power 99.00 % x dB Bandwidth 9.552 kHz x dB -26.00 dB
TX-DNH	4FSK	CH _{M2}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 406.112500 MHz Ref 39.54 dBm Occupied Bandwidth 7.791 kHz Total Power 42.6 dBm Transmit Freq Error -90 Hz OBW Power 99.00 % x dB Bandwidth 9.780 kHz x dB -26.00 dB

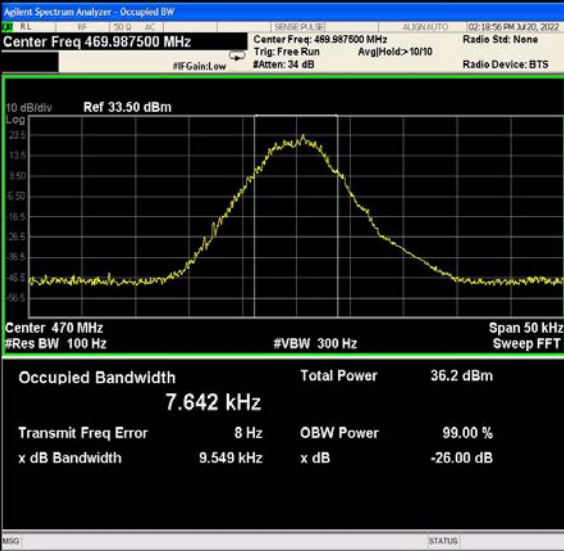
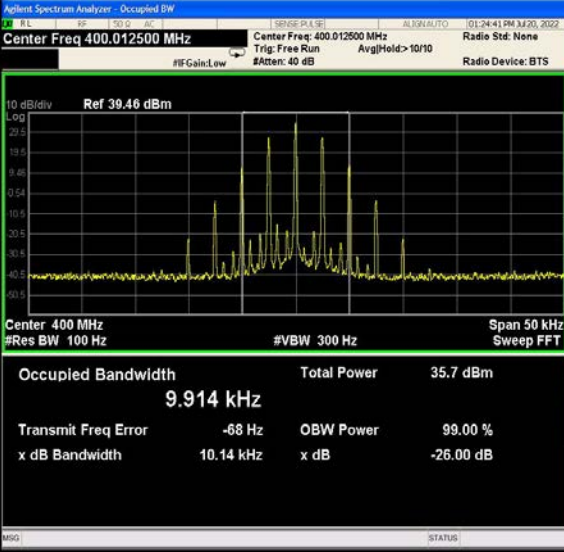
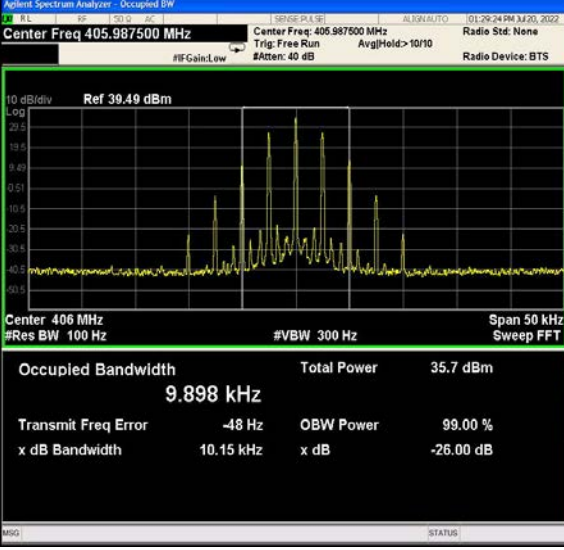
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Occupied BW Center Freq 438.012500 MHz Span 50 kHz Occupied Bandwidth 7.740 kHz Total Power 42.4 dBm Transmit Freq Error -73 Hz OBW Power 99.00 % x dB Bandwidth 9.720 kHz x dB -26.00 dB
TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Occupied BW Center Freq 469.987500 MHz Span 50 kHz Occupied Bandwidth 7.514 kHz Total Power 42.4 dBm Transmit Freq Error 7 Hz OBW Power 99.00 % x dB Bandwidth 9.523 kHz x dB -26.00 dB
TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Occupied BW Center Freq 400.012500 MHz Span 50 kHz Occupied Bandwidth 7.656 kHz Total Power 36.4 dBm Transmit Freq Error -102 Hz OBW Power 99.00 % x dB Bandwidth 9.928 kHz x dB -26.00 dB

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _{M1}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 405.987500 MHz Ref 33.06 dBm Occupied Bandwidth 7.696 kHz Total Power 35.0 dBm Transmit Freq Error -8 Hz OBW Power 99.00 % x dB Bandwidth 9.522 kHz x dB -26.00 dB
TX-DNL	4FSK	CH _{M2}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 406.112500 MHz Ref 32.94 dBm Occupied Bandwidth 7.652 kHz Total Power 36.3 dBm Transmit Freq Error -30 Hz OBW Power 99.00 % x dB Bandwidth 9.616 kHz x dB -26.00 dB
TX-DNL	4FSK	CH _{M3}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 438.012500 MHz Ref 32.98 dBm Occupied Bandwidth 7.688 kHz Total Power 36.0 dBm Transmit Freq Error -22 Hz OBW Power 99.00 % x dB Bandwidth 9.760 kHz x dB -26.00 dB

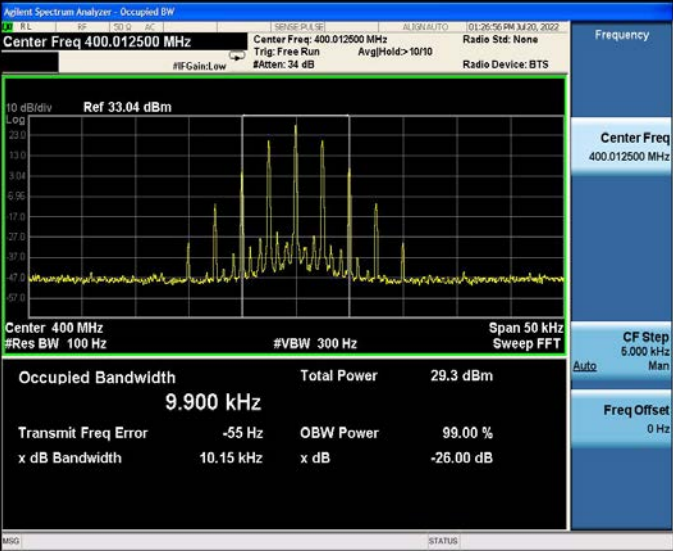
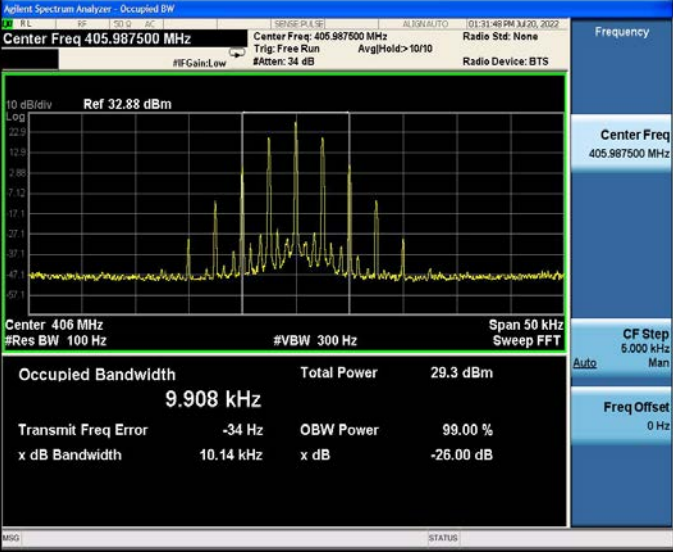
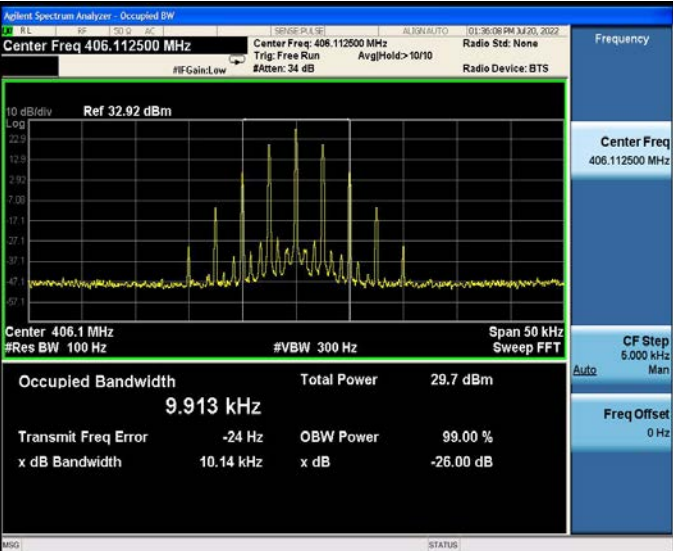
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 469.987500 MHz Ref 33.50 dBm Center 470 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.642 kHz Total Power 36.2 dBm Transmit Freq Error 8 Hz OBW Power 99.00 % x dB Bandwidth 9.549 kHz x dB -26.00 dB Frequency Center Freq 469.987500 MHz CF Step 5.000 kHz Freq Offset 0 Hz
TX-ANH	FM	CH _L	 Agilent Spectrum Analyzer - Occupied BW Center Freq 400.012500 MHz Ref 39.46 dBm Center 400 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.914 kHz Total Power 35.7 dBm Transmit Freq Error -68 Hz OBW Power 99.00 % x dB Bandwidth 10.14 kHz x dB -26.00 dB Frequency Center Freq 400.012500 MHz CF Step 5.000 kHz Freq Offset 0 Hz
TX-ANH	FM	CH _{M1}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 405.987500 MHz Ref 39.49 dBm Center 406 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.898 kHz Total Power 35.7 dBm Transmit Freq Error -48 Hz OBW Power 99.00 % x dB Bandwidth 10.15 kHz x dB -26.00 dB Frequency Center Freq 405.987500 MHz CF Step 5.000 kHz Freq Offset 0 Hz

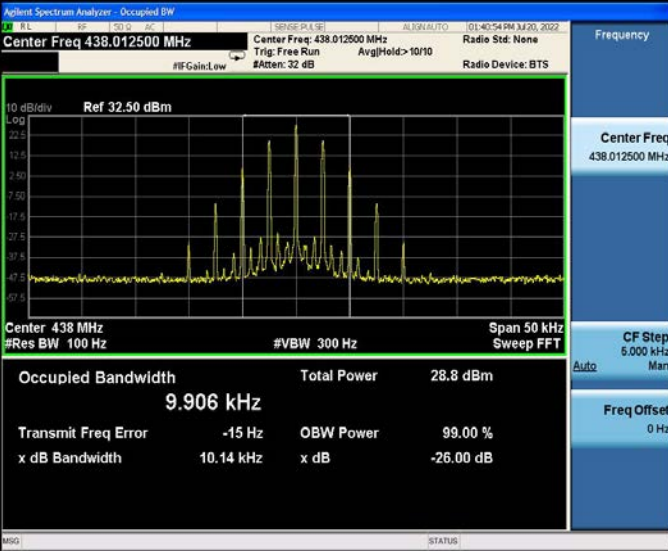
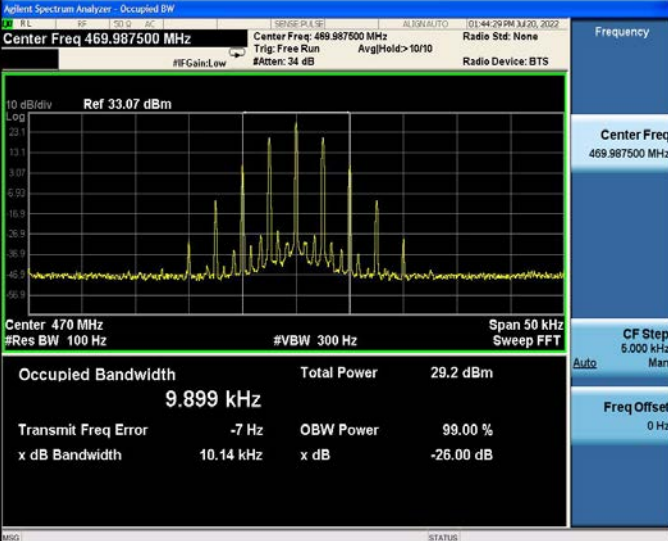
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _{M2}	Agilent Spectrum Analyzer - Occupied BW Center Freq 406.112500 MHz Ref 39.63 dBm Center 406.1 MHz Res BW 100 Hz Span 50 kHz VBW 300 Hz Sweep FFT Occupied Bandwidth 9.879 kHz Total Power 36.1 dBm Transmit Freq Error -38 Hz OBW Power 99.00 % x dB Bandwidth 10.14 kHz x dB -26.00 dB
TX-ANH	FM	CH _{M3}	Agilent Spectrum Analyzer - Occupied BW Center Freq 438.012500 MHz Ref 39.04 dBm Center 438 MHz Res BW 100 Hz Span 50 kHz VBW 300 Hz Sweep FFT Occupied Bandwidth 9.911 kHz Total Power 35.7 dBm Transmit Freq Error -27 Hz OBW Power 99.00 % x dB Bandwidth 10.14 kHz x dB -26.00 dB
TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Occupied BW Center Freq 469.987500 MHz Ref 39.03 dBm Center 470 MHz Res BW 100 Hz Span 50 kHz VBW 300 Hz Sweep FFT Occupied Bandwidth 9.901 kHz Total Power 35.4 dBm Transmit Freq Error -15 Hz OBW Power 99.00 % x dB Bandwidth 10.14 kHz x dB -26.00 dB

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _L	 Agilent Spectrum Analyzer - Occupied BW Center Freq 400.012500 MHz Occupied Bandwidth 9.900 kHz Total Power 29.3 dBm Transmit Freq Error -55 Hz x dB Bandwidth 10.15 kHz OBW Power 99.00 % x dB -26.00 dB
TX-ANL	FM	CH _{M1}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 405.987500 MHz Occupied Bandwidth 9.908 kHz Total Power 29.3 dBm Transmit Freq Error -34 Hz x dB Bandwidth 10.14 kHz OBW Power 99.00 % x dB -26.00 dB
TX-ANL	FM	CH _{M2}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 406.112500 MHz Occupied Bandwidth 9.913 kHz Total Power 29.7 dBm Transmit Freq Error -24 Hz x dB Bandwidth 10.14 kHz OBW Power 99.00 % x dB -26.00 dB

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _{M3}	 Agilent Spectrum Analyzer - Occupied BW Center Freq 438.012500 MHz Center Freq 438.012500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS #IF Gain: Low #Att: 32 dB Ref 32.50 dBm 10 dB/div Log Center 438 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.906 kHz Total Power 28.8 dBm Transmit Freq Error -15 Hz OBW Power 99.00 % x dB Bandwidth 10.14 kHz x dB -26.00 dB Frequency Center Freq 438.012500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto MSG STATUS
TX-ANL	FM	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 469.987500 MHz Center Freq 469.987500 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS #IF Gain: Low #Att: 34 dB Ref 33.07 dBm 10 dB/div Log Center 470 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.899 kHz Total Power 29.2 dBm Transmit Freq Error -7 Hz OBW Power 99.00 % x dB Bandwidth 10.14 kHz x dB -26.00 dB Frequency Center Freq 469.987500 MHz CF Step 5.000 kHz Man Freq Offset 0 Hz Auto MSG STATUS

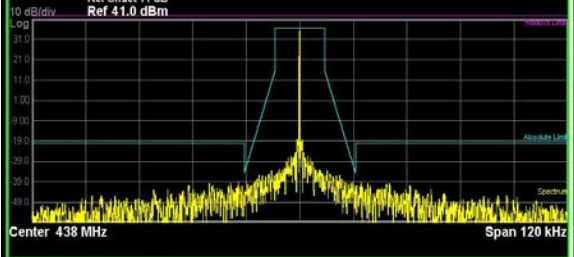
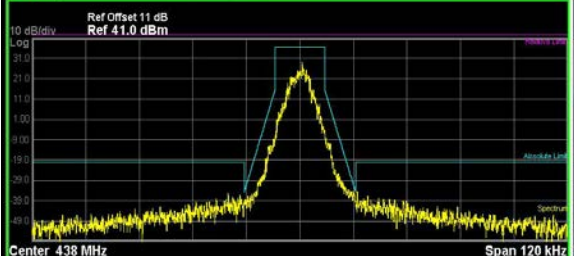
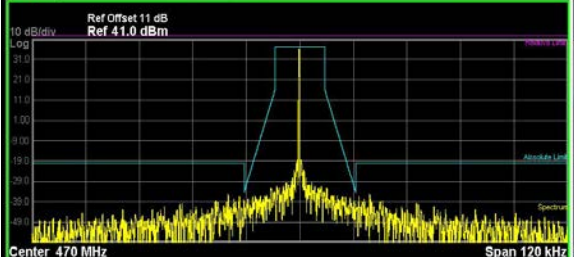
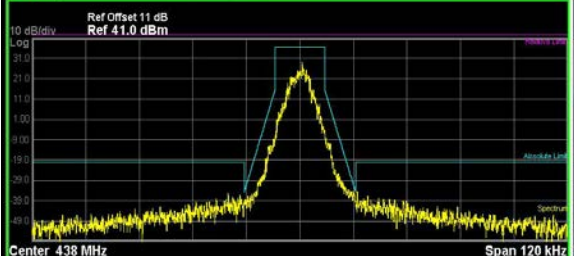
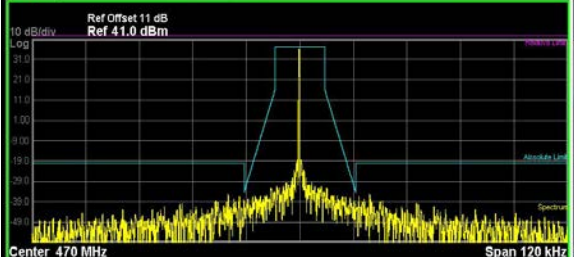
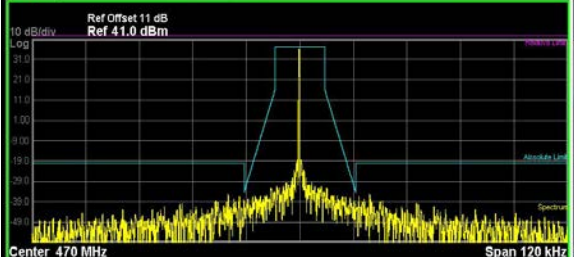
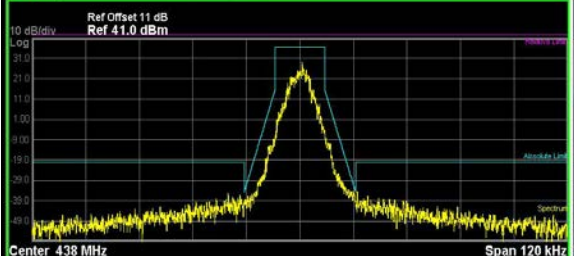
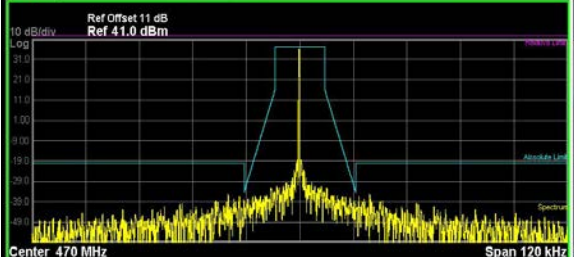
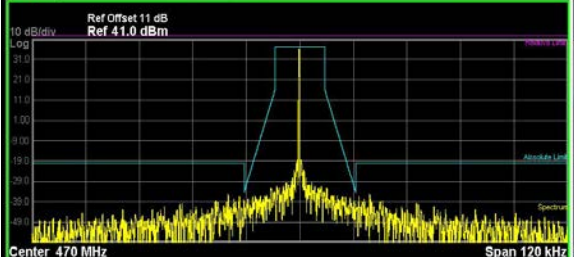
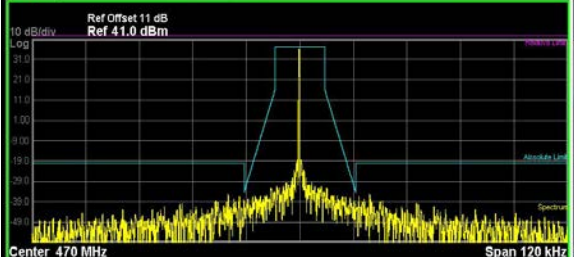
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 11 dB Ref 41.0 dBm Center 400 MHz Span 120 kHz Total Power Ref 35.93 dBm 0.0125 MHz <table><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>35.93</td><td>(-1.05)</td><td>-50.00</td><td>35.46</td><td>(-1.51)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.94</td><td>(-3.93)</td><td>-12.30 k</td><td>-36.89</td><td>(-4.24)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.95</td><td>(-16.95)</td><td>-13.85 k</td><td>-36.77</td><td>(-16.77)</td><td>13.75 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> Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz File <MASK.D.state> recalled STATUS	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	35.93	(-1.05)	-50.00	35.46	(-1.51)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.94	(-3.93)	-12.30 k	-36.89	(-4.24)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.95	(-16.95)	-13.85 k	-36.77	(-16.77)	13.75 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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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12.50 kHz	60.00 kHz	100.0 Hz	-36.95	(-16.95)	-13.85 k	-36.77	(-16.77)	13.75 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	—	(—)	—	—	(—)	—																																																										
TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None PASS IF Gain: Low Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 11 dB Ref 41.0 dBm Center 400 MHz Span 120 kHz Total Power Ref 38.77 dBm 0.0125 MHz <table><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>24.49</td><td>(-12.49)</td><td>-950.0</td><td>30.13</td><td>(-6.84)</td><td>550.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.28</td><td>(-9.82)</td><td>-12.50 k</td><td>-33.14</td><td>(-0.13)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.40</td><td>(-16.40)</td><td>-12.50 k</td><td>-34.56</td><td>(-14.56)</td><td>14.30 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> Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz File <Temp.png> saved STATUS	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	24.49	(-12.49)	-950.0	30.13	(-6.84)	550.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.28	(-9.82)	-12.50 k	-33.14	(-0.13)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.40	(-16.40)	-12.50 k	-34.56	(-14.56)	14.30 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-DNH	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 11 dB Ref 41.0 dBm Center 406 MHz Span 120 kHz Total Power Ref 36.02 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>36.07</td><td>(-1.10)</td><td>-50.00</td><td>35.27</td><td>(-1.91)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.68</td><td>(-5.40)</td><td>-12.50 k</td><td>-37.57</td><td>(-3.67)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.39</td><td>(-18.39)</td><td>-12.65 k</td><td>-38.36</td><td>(-18.36)</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> Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz File <MASK.D.state> recalled STATUS	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	36.07	(-1.10)	-50.00	35.27	(-1.91)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-39.68	(-5.40)	-12.50 k	-37.57	(-3.67)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.39	(-18.39)	-12.65 k	-38.36	(-18.36)	13.30 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 11 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.00 0.10 0.01 0.001 0.0001 0.00001 0.000001 0.0000001 0.00000001 0.000000001 0.0000000001 0.00000000001 0.000000000001 0.0000000000001 0.00000000000001 0.000000000000001 0.0000000000000001 0.00000000000000001 0.000000000000000001 0.0000000000000000001 0.00000000000000000001 0.000000000000000000001 0.0000000000000000000001 0.00000000000000000000001 0.000000000000000000000001 0.0000000000000000000000001 0.00000000000000000000000001 0.000000000000000000000000001 0.0000000000000000000000000001 0.00000000000000000000000000001 0.000000000000000000000000000001 0.0000000000000000000000000000001 0.00000000000000000000000000000001 0.000000000000000000000000000000001 0.0000000000000000000000000000000001 0.00000000000000000000000000000000001 0.000000000000000000000000000000000001 0.0000000000000000000000000000000000001 0.00000000000000000000000000000000000001 0.000000000000000000000000000000000000001 0.0000000000000000000000000000000000000001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.0001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.001 0.0001 0.0001 0.001 0.0001 0.001 0.0001 0.001 0.00

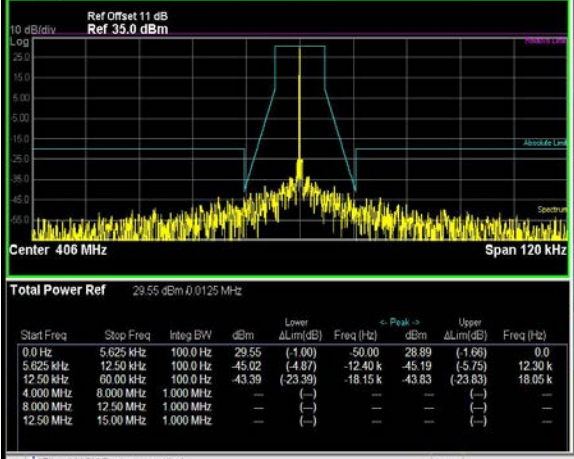
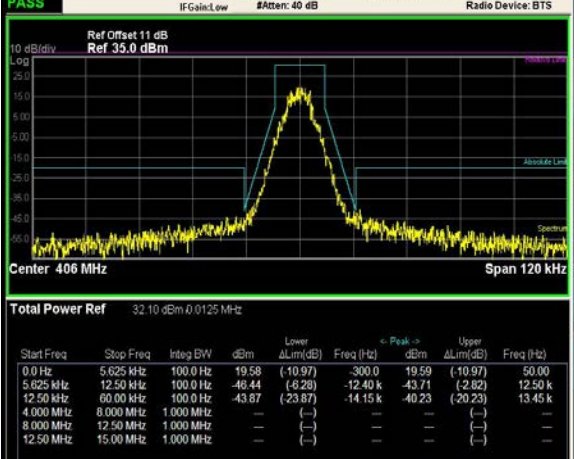
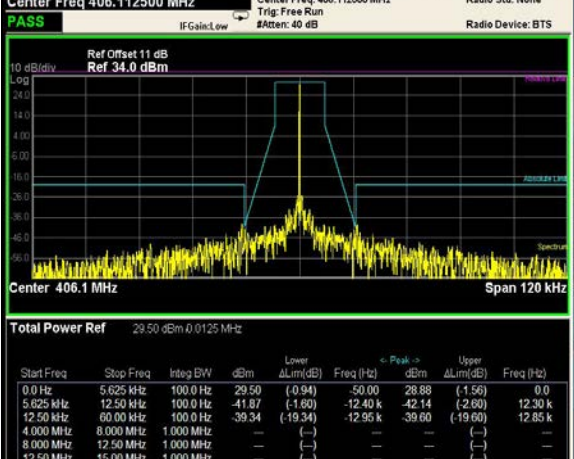
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TX-DNH	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz PASS IF Gain: Low Center Freq: 438.012500 MHz Trig: Free Run #Atten: 40 dB Radio Device: BTS Ref Offset 11 dB Ref 41.0 dBm  Center 438 MHz Span 120 kHz Total Power Ref 35.53 dBm 0.0125 MHz <table><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>35.54</td><td>(-1.04)</td><td>-50.00</td><td>34.83</td><td>(-1.74)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.01</td><td>(-8.15)</td><td>-11.95 k</td><td>-41.18</td><td>(-8.68)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.95</td><td>(-18.95)</td><td>-13.80 k</td><td>-39.02</td><td>(-19.02)</td><td>13.70 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK.D.state> recalled STATUS Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz <tr><td>TX-DNH</td><td>4FSK</td><td>CH_{M3}</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz PASS IF Gain: Low Center Freq: 438.012500 MHz Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 11 dB Ref 41.0 dBm  Center 438 MHz Span 120 kHz Total Power Ref 39.25 dBm 0.0125 MHz <table><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>24.78</td><td>(-11.79)</td><td>-400.0</td><td>29.51</td><td>(7.06)</td><td>550.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.27</td><td>(-4.77)</td><td>-12.45 k</td><td>-36.18</td><td>(-2.41)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.93</td><td>(-14.93)</td><td>-16.00 k</td><td>-34.51</td><td>(-14.51)</td><td>12.95 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved STATUS Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz <tr><td>TX-DNH</td><td>4FSK</td><td>CH_H</td><td> Agilent Spectrum Analyzer - 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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																																																																					
TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS PASS IF Gain: Low #Atten: 40 dB Ref Offset 11 dB Ref 41.0 dBm Center 470 MHz Span 120 kHz Total Power Ref 39.41 dBm 0.0125 MHz <table><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>20.81</td><td>(-16.35)</td><td>-100.0</td><td>22.44</td><td>(-14.73)</td><td>150.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-44.71</td><td>(-10.43)</td><td>-12.50 k</td><td>-42.18</td><td>(-9.36)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.19</td><td>(-21.19)</td><td>-12.60 k</td><td>-41.97</td><td>(-21.97)</td><td>12.50 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz <tr><td>TX-DNL</td><td>4FSK</td><td>CH_L</td><td> Agilent Spectrum Analyzer - 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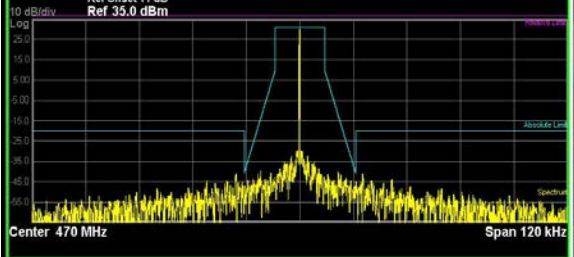
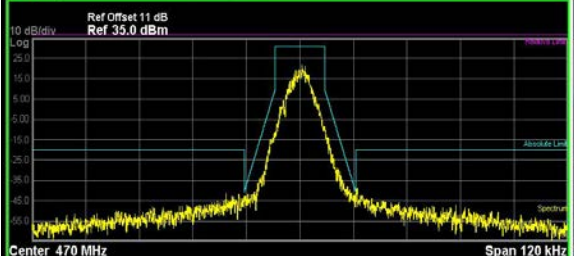
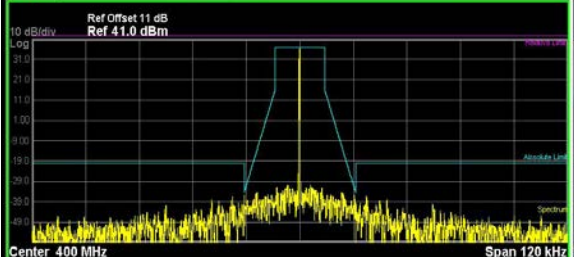
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 11 dB Ref 35.0 dBm  Center 406 MHz Span 120 kHz Total Power Ref 29.55 dBm 0.0125 MHz <table><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>29.55</td><td>(-1.00)</td><td>-50.00</td><td>28.89</td><td>(-1.66)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-45.02</td><td>(-4.87)</td><td>-12.40 k</td><td>-45.19</td><td>(-5.75)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.39</td><td>(-23.39)</td><td>-18.15 k</td><td>-43.63</td><td>(-23.83)</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> File <MASK.D.state> recalled Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	29.55	(-1.00)	-50.00	28.89	(-1.66)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-45.02	(-4.87)	-12.40 k	-45.19	(-5.75)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.39	(-23.39)	-18.15 k	-43.63	(-23.83)	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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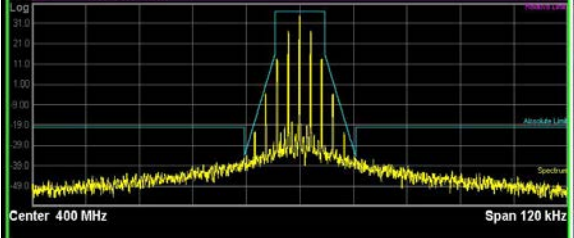
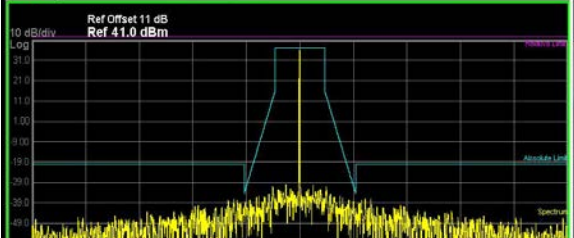
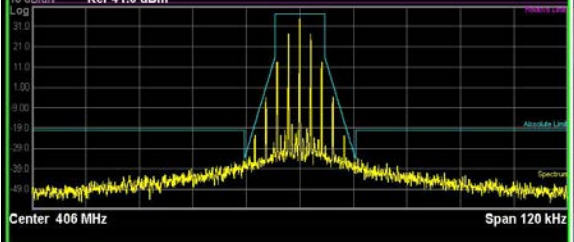
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT	
TX-DNL	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 11 dB Ref 34.0 dBm 10 dB/div Log	

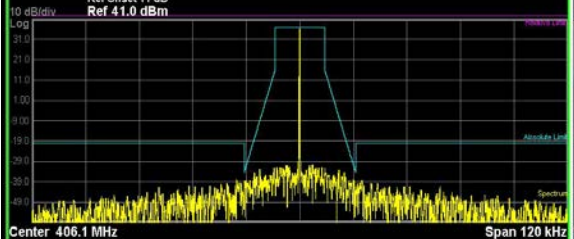
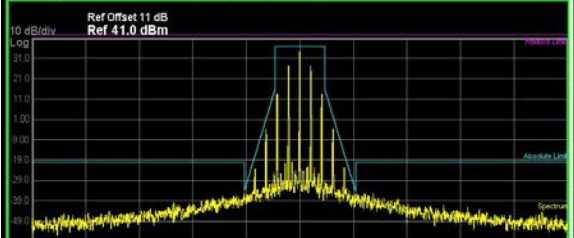
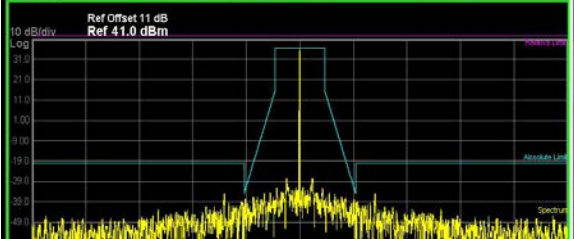
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Ref Offset 11 dB Ref 35.0 dBm  Center 470 MHz Span 120 kHz Total Power Ref 29.75 dBm 0.0125 MHz <table><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 ΔLim(dB)</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>29.67</td><td>(1.00)</td><td>-50.00</td><td>27.41</td><td>(3.26)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-48.90</td><td>(7.23)</td><td>-12.35 k</td><td>-47.32</td><td>(-8.91)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.16</td><td>(21.16)</td><td>-14.25 k</td><td>-40.95</td><td>(-20.95)</td><td>14.15 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> File <MASK.D.state> recalled Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	29.67	(1.00)	-50.00	27.41	(3.26)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-48.90	(7.23)	-12.35 k	-47.32	(-8.91)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.16	(21.16)	-14.25 k	-40.95	(-20.95)	14.15 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-DNL	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None PASS IF Gain: Low Avg: 100.00% of 10 Ref Offset 11 dB Ref 35.0 dBm  Center 470 MHz Span 120 kHz Total Power Ref 33.14 dBm 0.0125 MHz <table><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 ΔLim(dB)</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>19.37</td><td>(11.30)</td><td>-200.0</td><td>21.68</td><td>(-8.99)</td><td>550.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.90</td><td>(3.95)</td><td>-12.25 k</td><td>-41.39</td><td>(-0.63)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.44</td><td>(21.44)</td><td>-16.45 k</td><td>-38.81</td><td>(-18.81)</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> File <Temp.png> saved Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	19.37	(11.30)	-200.0	21.68	(-8.99)	550.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.90	(3.95)	-12.25 k	-41.39	(-0.63)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.44	(21.44)	-16.45 k	-38.81	(-18.81)	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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TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Ref Offset 11 dB Ref 41.0 dBm  Center 400 MHz Span 120 kHz Total Power Ref 36.14 dBm 0.0125 MHz <table><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 ΔLim(dB)</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>35.95</td><td>(0.98)</td><td>-50.00</td><td>32.11</td><td>(4.83)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.65</td><td>(1.15)</td><td>-12.50 k</td><td>-35.75</td><td>(-2.34)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.46</td><td>(-16.46)</td><td>-15.05 k</td><td>-36.26</td><td>(-16.26)</td><td>14.95 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK.D.state> recalled Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.95	(0.98)	-50.00	32.11	(4.83)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.65	(1.15)	-12.50 k	-35.75	(-2.34)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.46	(-16.46)	-15.05 k	-36.26	(-16.26)	14.95 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

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TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 11 dB Ref 41.0 dBm  Center 400 MHz Span 120 kHz Total Power Ref 35.96 dBm 0.0125 MHz <table><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>34.53</td><td>(2.41)</td><td>-50.00</td><td>33.60</td><td>(3.34)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-33.06</td><td>(2.23)</td><td>-12.50 k</td><td>-33.28</td><td>(-0.63)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.27</td><td>(-15.27)</td><td>-12.55 k</td><td>-34.22</td><td>(-14.22)</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> File <Temp.png> saved STATUS Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	34.53	(2.41)	-50.00	33.60	(3.34)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-33.06	(2.23)	-12.50 k	-33.28	(-0.63)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.27	(-15.27)	-12.55 k	-34.22	(-14.22)	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-ANH	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 11 dB Ref 41.0 dBm  Center 406 MHz Span 120 kHz Total Power Ref 36.47 dBm 0.0125 MHz <table><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>34.55</td><td>(2.41)</td><td>0.0</td><td>34.55</td><td>(2.41)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-33.55</td><td>(2.25)</td><td>-12.50 k</td><td>-35.37</td><td>(-1.26)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.52</td><td>(-14.52)</td><td>-12.60 k</td><td>-34.13</td><td>(-14.13)</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> File <Temp.png> saved STATUS Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	34.55	(2.41)	0.0	34.55	(2.41)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-33.55	(2.25)	-12.50 k	-35.37	(-1.26)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.52	(-14.52)	-12.60 k	-34.13	(-14.13)	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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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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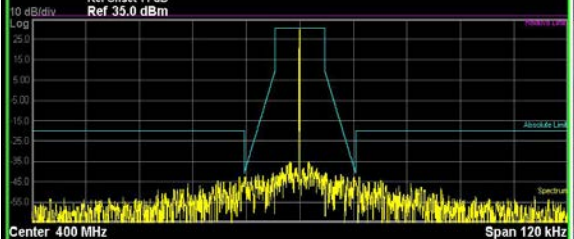
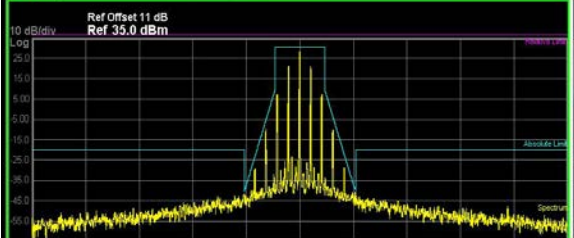
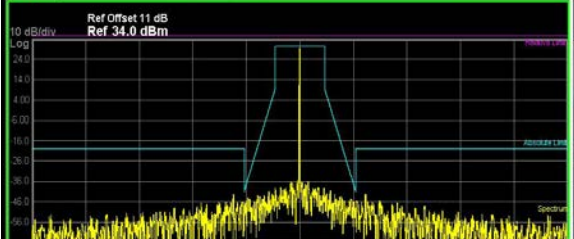
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANH	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 11 dB Ref 41.0 dBm  Center 406.1 MHz Span 120 kHz Total Power Ref 36.51 dBm 0.0125 MHz <table><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</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>35.91</td><td>(-1.04)</td><td>-50.00</td><td>35.87</td><td>(-1.07)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.52</td><td>(-5.85)</td><td>-12.25 k</td><td>-38.63</td><td>(-8.68)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.00</td><td>(-18.00)</td><td>-14.05 k</td><td>-38.06</td><td>(-18.08)</td><td>13.95 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File <MASK.D state> recalled STATUS Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.91	(-1.04)	-50.00	35.87	(-1.07)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.52	(-5.85)	-12.25 k	-38.63	(-8.68)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.00	(-18.00)	-14.05 k	-38.06	(-18.08)	13.95 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak	Upper ΔLim(dB)	Freq (Hz)																																																										
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANH	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Radio Std: None PASS IF Gain: Low Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 11 dB Ref 41.0 dBm  Center 406.1 MHz Span 120 kHz Total Power Ref 36.19 dBm 0.0125 MHz <table><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</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>34.45</td><td>(-2.49)</td><td>0.0</td><td>34.45</td><td>(-2.49)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.23</td><td>(-2.23)</td><td>-12.50 k</td><td>-34.77</td><td>(-0.28)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.31</td><td>(-16.31)</td><td>-12.50 k</td><td>-35.29</td><td>(-15.29)</td><td>16.55 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File <Temp.png> saved STATUS Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	34.45	(-2.49)	0.0	34.45	(-2.49)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.23	(-2.23)	-12.50 k	-34.77	(-0.28)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.31	(-16.31)	-12.50 k	-35.29	(-15.29)	16.55 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANH	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 11 dB Ref 41.0 dBm  Center 438 MHz Span 120 kHz Total Power Ref 36.04 dBm 0.0125 MHz <table><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</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>35.46</td><td>(-1.07)</td><td>-50.00</td><td>35.44</td><td>(-1.09)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-37.68</td><td>(-4.94)</td><td>-12.20 k</td><td>-37.87</td><td>(-5.51)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.91</td><td>(-14.91)</td><td>-16.90 k</td><td>-34.91</td><td>(-14.91)</td><td>16.85 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></table> File <MASK.D state> recalled STATUS Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.46	(-1.07)	-50.00	35.44	(-1.09)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.68	(-4.94)	-12.20 k	-37.87	(-5.51)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.91	(-14.91)	-16.90 k	-34.91	(-14.91)	16.85 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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak	Upper ΔLim(dB)	Freq (Hz)																																																										
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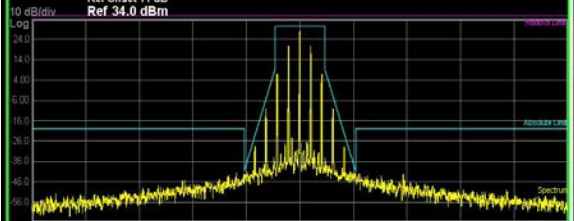
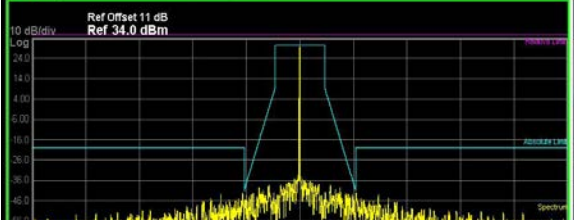
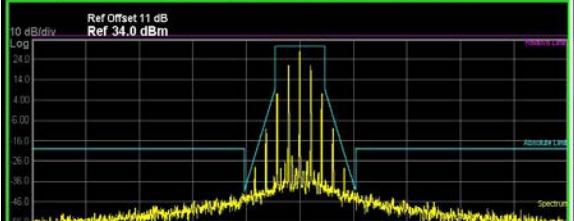
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																
TX-ANH	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 11 dB Ref 41.0 dBm Center 438 MHz Span 120 kHz Total Power Ref 35.46 dBm @ 0.0125 MHz <table><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</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>34.02</td><td>(-2.51)</td><td>0.0</td><td>34.02</td><td>(-2.51)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-37.11</td><td>(-2.20)</td><td>-12.50 k</td><td>-35.55</td><td>(-0.64)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.86</td><td>(-15.86)</td><td>-17.90 k</td><td>-33.66</td><td>(-13.66)</td><td>12.50 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	34.02	(-2.51)	0.0	34.02	(-2.51)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.11	(-2.20)	-12.50 k	-35.55	(-0.64)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.86	(-15.86)	-17.90 k	-33.66	(-13.66)	12.50 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	
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TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 11 dB Ref 40.0 dBm Center 470 MHz Span 120 kHz Total Power Ref 35.63 dBm @ 0.0125 MHz <table><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</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>35.47</td><td>(-1.02)</td><td>0.0</td><td>35.47</td><td>(-1.02)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-37.81</td><td>(-2.68)</td><td>-12.50 k</td><td>-34.81</td><td>(-2.34)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.85</td><td>(-15.85)</td><td>-13.00 k</td><td>-35.78</td><td>(-15.78)</td><td>12.95 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK D.state> recalled Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.47	(-1.02)	0.0	35.47	(-1.02)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.81	(-2.68)	-12.50 k	-34.81	(-2.34)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.85	(-15.85)	-13.00 k	-35.78	(-15.78)	12.95 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	
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5.625 kHz	12.50 kHz	100.0 Hz	-37.81	(-2.68)	-12.50 k	-34.81	(-2.34)	12.50 k																																																											
12.50 kHz	60.00 kHz	100.0 Hz	-35.85	(-15.85)	-13.00 k	-35.78	(-15.78)	12.95 k																																																											
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																											
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																											
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																											
TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 11 dB Ref 40.0 dBm Center 470 MHz Span 120 kHz Total Power Ref 35.47 dBm @ 0.0125 MHz <table><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</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>34.07</td><td>(-2.42)</td><td>0.0</td><td>34.07</td><td>(-2.42)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-37.15</td><td>(-2.20)</td><td>-12.50 k</td><td>-34.80</td><td>(-0.63)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.61</td><td>(-13.61)</td><td>-12.50 k</td><td>-35.38</td><td>(-15.38)</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> File <Temp.png> saved Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	34.07	(-2.42)	0.0	34.07	(-2.42)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.15	(-2.20)	-12.50 k	-34.80	(-0.63)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.61	(-13.61)	-12.50 k	-35.38	(-15.38)	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	—	(—)	—	—	(—)	—	
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak	Upper ΔLim(dB)	Freq (Hz)																																																											
0.0 Hz	5.625 kHz	100.0 Hz	34.07	(-2.42)	0.0	34.07	(-2.42)	0.0																																																											
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz PASS IF Gain: Low Center Freq: 400.012500 MHz Trig: Free Run #Atten: 40 dB Radio Device: BTS Ref Offset 11 dB Ref 35.0 dBm  Center 400 MHz Span 120 kHz Total Power Ref 29.74 dBm @ 0.0125 MHz <table><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>29.73</td><td>(-0.86)</td><td>-50.00</td><td>28.15</td><td>(-2.44)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.72</td><td>(-2.60)</td><td>-12.40 k</td><td>-42.81</td><td>(-3.42)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.96</td><td>(-22.96)</td><td>-13.50 k</td><td>-42.82</td><td>(-22.82)</td><td>13.35 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK.D.state> recalled STATUS Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	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	29.73	(-0.86)	-50.00	28.15	(-2.44)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.72	(-2.60)	-12.40 k	-42.81	(-3.42)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.96	(-22.96)	-13.50 k	-42.82	(-22.82)	13.35 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz PASS IF Gain: Low Center Freq: 400.012500 MHz Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 11 dB Ref 35.0 dBm  Center 400 MHz Span 120 kHz Total Power Ref 30.18 dBm @ 0.0125 MHz <table><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>28.28</td><td>(-2.31)</td><td>-50.00</td><td>28.11</td><td>(-2.48)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.60</td><td>(-2.13)</td><td>-12.50 k</td><td>-39.02</td><td>(-1.06)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.68</td><td>(-18.68)</td><td>-12.50 k</td><td>-42.63</td><td>(-22.63)</td><td>12.50 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved STATUS Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	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	28.28	(-2.31)	-50.00	28.11	(-2.48)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.60	(-2.13)	-12.50 k	-39.02	(-1.06)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-38.68	(-18.68)	-12.50 k	-42.63	(-22.63)	12.50 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANL	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz PASS IF Gain: Low Center Freq: 405.987500 MHz Trig: Free Run #Atten: 40 dB Radio Device: BTS Ref Offset 11 dB Ref 34.0 dBm  Center 406 MHz Span 120 kHz Total Power Ref 30.04 dBm @ 0.0125 MHz <table><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>29.45</td><td>(-1.02)</td><td>-50.00</td><td>29.24</td><td>(-1.23)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-46.78</td><td>(-7.99)</td><td>-12.20 k</td><td>-46.29</td><td>(-7.87)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.33</td><td>(-22.33)</td><td>-14.85 k</td><td>-42.31</td><td>(-22.31)</td><td>14.75 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK.D.state> recalled STATUS Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	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	29.45	(-1.02)	-50.00	29.24	(-1.23)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-46.78	(-7.99)	-12.20 k	-46.29	(-7.87)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.33	(-22.33)	-14.85 k	-42.31	(-22.31)	14.75 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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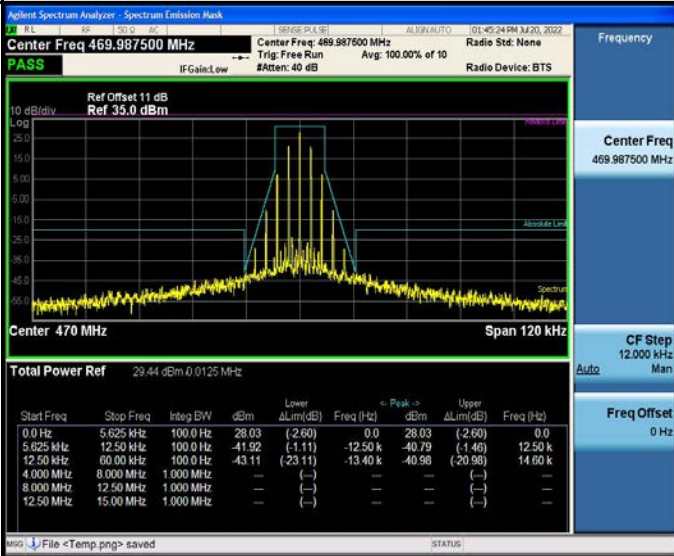
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 11 dB Ref 34.0 dBm  Center 406 MHz Span 120 kHz Total Power Ref 29.82 dBm 0.0125 MHz <table><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>28.01</td><td>(-2.47)</td><td>0.0</td><td>28.01</td><td>(-2.47)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.08</td><td>(-2.11)</td><td>-12.50 k</td><td>-42.03</td><td>(-1.06)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.39</td><td>(-21.39)</td><td>-14.10 k</td><td>-42.01</td><td>(-22.01)</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> File <Temp.png> saved STATUS Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	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	28.01	(-2.47)	0.0	28.01	(-2.47)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.08	(-2.11)	-12.50 k	-42.03	(-1.06)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.39	(-21.39)	-14.10 k	-42.01	(-22.01)	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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 11 dB Ref 34.0 dBm  Center 406.1 MHz Span 120 kHz Total Power Ref 30.10 dBm 0.0125 MHz <table><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>29.50</td><td>(-0.98)</td><td>-50.00</td><td>29.49</td><td>(-0.99)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-46.02</td><td>(-8.16)</td><td>-12.35 k</td><td>-45.92</td><td>(-8.42)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.12</td><td>(-22.12)</td><td>-12.75 k</td><td>-42.03</td><td>(-22.03)</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> File <MASK D.state> recalled STATUS Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	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	29.50	(-0.98)	-50.00	29.49	(-0.99)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-46.02	(-8.16)	-12.35 k	-45.92	(-8.42)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.12	(-22.12)	-12.75 k	-42.03	(-22.03)	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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 11 dB Ref 34.0 dBm  Center 406.1 MHz Span 120 kHz Total Power Ref 29.71 dBm 0.0125 MHz <table><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>28.07</td><td>(-2.41)</td><td>0.0</td><td>28.07</td><td>(-2.41)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.57</td><td>(-1.81)</td><td>-12.50 k</td><td>-38.81</td><td>(-1.06)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.67</td><td>(-21.67)</td><td>-12.75 k</td><td>-41.40</td><td>(-21.40)</td><td>12.95 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved STATUS Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	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	28.07	(-2.41)	0.0	28.07	(-2.41)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.57	(-1.81)	-12.50 k	-38.81	(-1.06)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.67	(-21.67)	-12.75 k	-41.40	(-21.40)	12.95 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																																																																					
TX-ANL	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 11 dB Ref 34.0 dBm 10 dB/div Log 24.0 18.0 12.0 6.00 0.00 -6.00 -12.00 -18.00 -24.00 -30.00 -36.00 -42.00 -48.00 -54.00 Center 438 MHz Span 120 kHz Total Power Ref 29.17 dBm 0.0125 MHz <table><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>28.93</td><td>(-1.46)</td><td>-50.00</td><td>28.91</td><td>(-1.48)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-45.97</td><td>(-5.65)</td><td>-12.40 k</td><td>-45.72</td><td>(-5.77)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-45.51</td><td>(-25.51)</td><td>-17.50 k</td><td>-44.67</td><td>(-24.67)</td><td>17.45 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> File <MASK.D.state> recalled Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	28.93	(-1.46)	-50.00	28.91	(-1.48)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-45.97	(-5.65)	-12.40 k	-45.72	(-5.77)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-45.51	(-25.51)	-17.50 k	-44.67	(-24.67)	17.45 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	—	(—)	—	—	(—)	—	TX-ANL	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Radio Std: None PASS IF Gain: Low Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 11 dB Ref 34.0 dBm 10 dB/div Log 24.0 18.0 12.0 6.00 0.00 -6.00 -12.00 -18.00 -24.00 -30.00 -36.00 -42.00 -48.00 -54.00 Center 438 MHz Span 120 kHz Total Power Ref 28.99 dBm 0.0125 MHz <table><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>27.55</td><td>(-2.84)</td><td>0.0</td><td>27.55</td><td>(-2.84)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.47</td><td>(-1.42)</td><td>-12.50 k</td><td>-42.30</td><td>(-1.25)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.89</td><td>(-21.89)</td><td>-13.20 k</td><td>-43.45</td><td>(-23.45)</td><td>12.55 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	27.55	(-2.84)	0.0	27.55	(-2.84)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.47	(-1.42)	-12.50 k	-42.30	(-1.25)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.89	(-21.89)	-13.20 k	-43.45	(-23.45)	12.55 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 11 dB Ref 35.0 dBm 10 dB/div Log 24.0 18.0 12.0 6.00 0.00 -6.00 -12.00 -18.00 -24.00 -30.00 -36.00 -42.00 -48.00 -54.00 Center 470 MHz Span 120 kHz Total Power Ref 29.58 dBm 0.0125 MHz <table><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>29.43</td><td>(-1.20)</td><td>0.0</td><td>29.43</td><td>(-1.20)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-44.58</td><td>(-1.13)</td><td>-12.45 k</td><td>-44.48</td><td>(-1.39)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.50</td><td>(-20.50)</td><td>-13.95 k</td><td>-40.47</td><td>(-20.47)</td><td>13.90 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> File <MASK.D.state> recalled Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	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	29.43	(-1.20)	0.0	29.43	(-1.20)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-44.58	(-1.13)	-12.45 k	-44.48	(-1.39)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.50	(-20.50)	-13.95 k	-40.47	(-20.47)	13.90 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

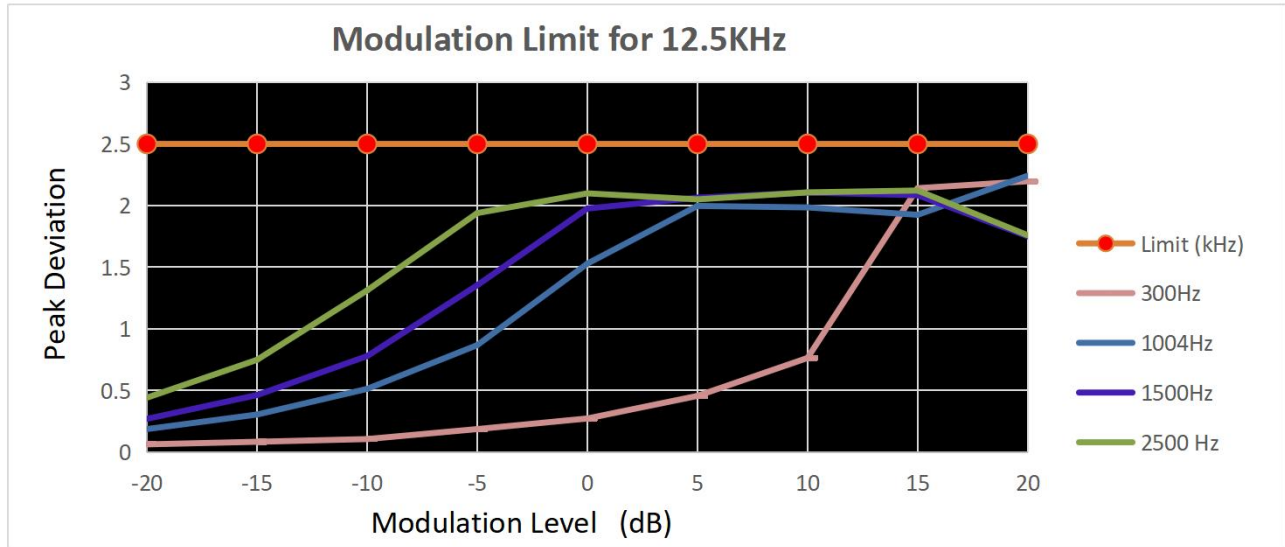
Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT	
TX-ANL	FM	CH _H		Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz

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 _{M2}	-20	0.063	0.187	0.27	0.442	2.5	PASS
TX-ANH	FM	CH _{M2}	-15	0.084	0.305	0.463	0.749	2.5	PASS
TX-ANH	FM	CH _{M2}	-10	0.106	0.513	0.779	1.312	2.5	PASS
TX-ANH	FM	CH _{M2}	-5	0.187	0.868	1.354	1.939	2.5	PASS
TX-ANH	FM	CH _{M2}	0	0.273	1.529	1.976	2.099	2.5	PASS
TX-ANH	FM	CH _{M2}	5	0.456	1.997	2.064	2.05	2.5	PASS
TX-ANH	FM	CH _{M2}	10	0.764	1.985	2.105	2.107	2.5	PASS
TX-ANH	FM	CH _{M2}	15	2.141	1.925	2.084	2.122	2.5	PASS
TX-ANH	FM	CH _{M2}	20	2.197	2.242	1.751	1.759	2.5	PASS

Appendix D:Modulation Limit

TEST PLOT RESULT

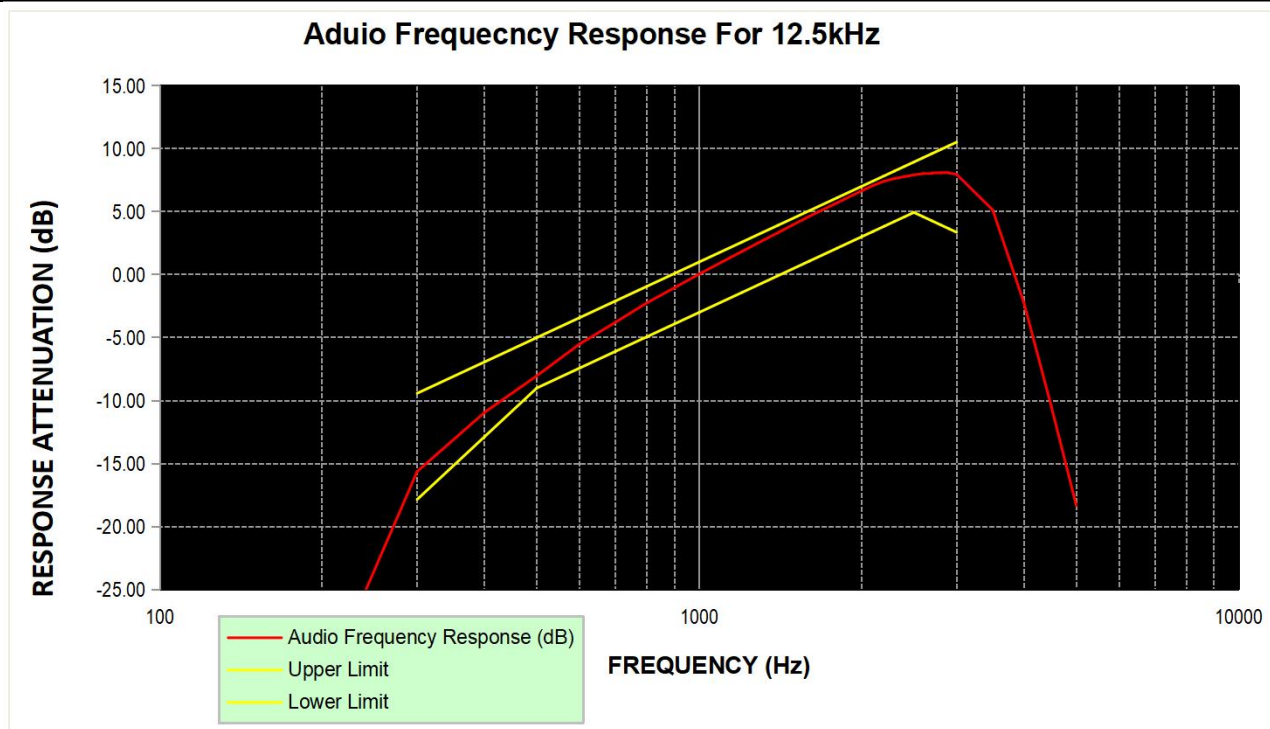


Appendix E:Audio Frequency Response

Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-ANH	FM	CH _{M2}	100	-32.92			PASS
TX-ANH	FM	CH _{M2}	200	-33.01			PASS
TX-ANH	FM	CH _{M2}	300	-15.63	-17.84	-9.42	PASS
TX-ANH	FM	CH _{M2}	400	-10.94	-12.86	-6.93	PASS
TX-ANH	FM	CH _{M2}	500	-8.03	-9.00	-5.00	PASS
TX-ANH	FM	CH _{M2}	600	-5.51	-7.42	-3.42	PASS
TX-ANH	FM	CH _{M2}	700	-3.77	-6.09	-2.09	PASS
TX-ANH	FM	CH _{M2}	800	-2.24	-4.93	-0.93	PASS
TX-ANH	FM	CH _{M2}	900	-1.04	-3.91	0.09	PASS
TX-ANH	FM	CH _{M2}	1000	0.05	-3.00	1.00	PASS
TX-ANH	FM	CH _{M2}	1200	1.84	-1.42	2.58	PASS
TX-ANH	FM	CH _{M2}	1400	3.33	-0.09	3.91	PASS
TX-ANH	FM	CH _{M2}	1600	4.63	1.07	5.07	PASS
TX-ANH	FM	CH _{M2}	1800	5.69	2.09	6.09	PASS
TX-ANH	FM	CH _{M2}	2000	6.65	3.00	7.00	PASS
TX-ANH	FM	CH _{M2}	2100	7.07	3.42	7.42	PASS
TX-ANH	FM	CH _{M2}	2200	7.41	3.83	7.83	PASS
TX-ANH	FM	CH _{M2}	2300	7.62	4.21	8.21	PASS
TX-ANH	FM	CH _{M2}	2400	7.77	4.58	8.58	PASS
TX-ANH	FM	CH _{M2}	2500	7.91	4.93	8.93	PASS
TX-ANH	FM	CH _{M2}	2600	8.01	4.59	9.27	PASS
TX-ANH	FM	CH _{M2}	2700	8.07	4.27	9.60	PASS
TX-ANH	FM	CH _{M2}	2800	8.09	3.95	9.91	PASS
TX-ANH	FM	CH _{M2}	2900	8.06	3.65	10.22	PASS
TX-ANH	FM	CH _{M2}	3000	7.96	3.35	10.51	PASS
TX-ANH	FM	CH _{M2}	3500	5.13			PASS
TX-ANH	FM	CH _{M2}	4000	-2.26			PASS
TX-ANH	FM	CH _{M2}	4500	-10.55			PASS
TX-ANH	FM	CH _{M2}	5000	-18.33			PASS

Appendix E:Audio Frequency Response

TEST PLOT RESULT



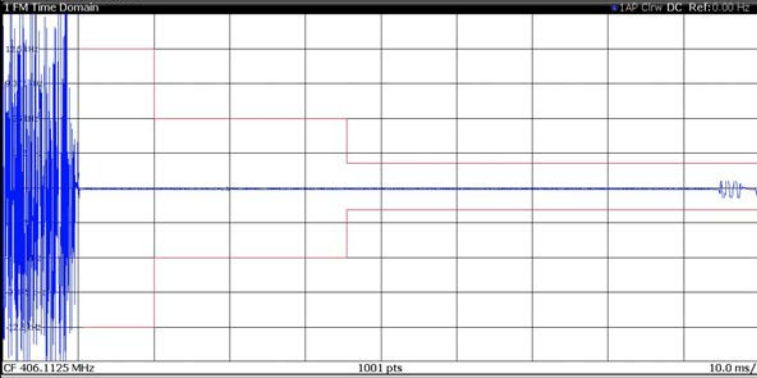
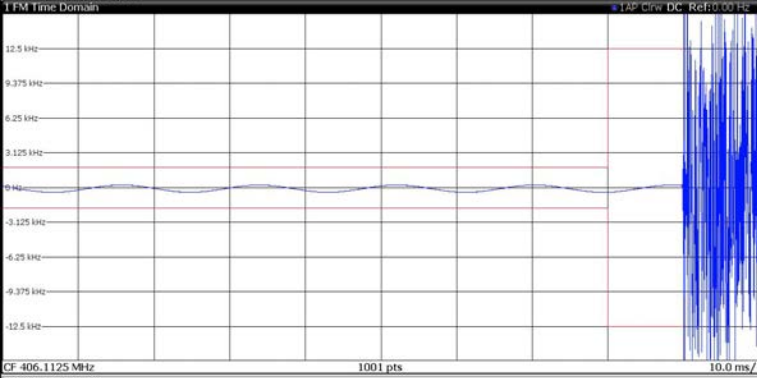
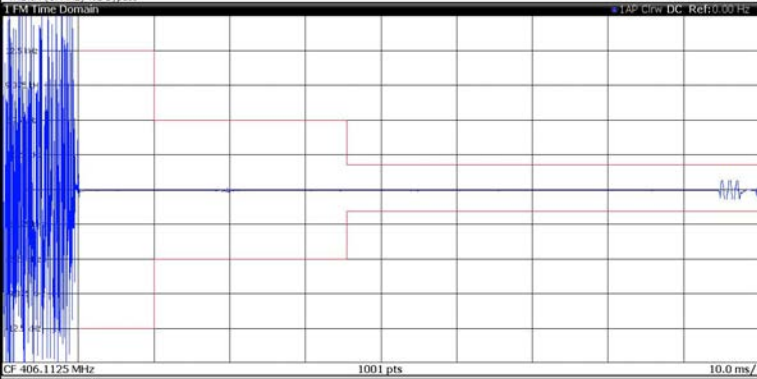
Appendix F:Frequency Stability Test & Temperature

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)					Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _{M1}	CH _{M2}	CH _{M3}	CH _H		
TX-DNH	4FSK	V _N	-30	-0.404	-0.381	-0.379	-0.292	-0.218	±5.0	PASS
TX-DNH	4FSK	V _N	-20	-0.410	-0.392	-0.378	-0.279	-0.218	±5.0	PASS
TX-DNH	4FSK	V _N	-10	-0.402	-0.387	-0.372	-0.293	-0.228	±5.0	PASS
TX-DNH	4FSK	V _N	0	-0.386	-0.396	-0.389	-0.284	-0.218	±5.0	PASS
TX-DNH	4FSK	V _N	10	-0.384	-0.379	-0.388	-0.286	-0.225	±5.0	PASS
TX-DNH	4FSK	V _N	20	-0.380	-0.365	-0.367	-0.267	-0.215	±5.0	PASS
TX-DNH	4FSK	V _N	30	-0.398	-0.373	-0.382	-0.284	-0.225	±5.0	PASS
TX-DNH	4FSK	V _N	40	-0.402	-0.367	-0.385	-0.272	-0.217	±5.0	PASS
TX-DNH	4FSK	V _N	50	-0.412	-0.389	-0.390	-0.270	-0.216	±5.0	PASS
TX-DNL	4FSK	V _N	-30	-0.373	-0.394	-0.397	-0.295	-0.215	±5.0	PASS
TX-DNL	4FSK	V _N	-20	-0.378	-0.390	-0.391	-0.292	-0.231	±5.0	PASS
TX-DNL	4FSK	V _N	-10	-0.367	-0.397	-0.408	-0.296	-0.219	±5.0	PASS
TX-DNL	4FSK	V _N	0	-0.372	-0.370	-0.394	-0.298	-0.219	±5.0	PASS
TX-DNL	4FSK	V _N	10	-0.380	-0.389	-0.410	-0.283	-0.228	±5.0	PASS
TX-DNL	4FSK	V _N	20	-0.347	-0.365	-0.377	-0.279	-0.213	±5.0	PASS
TX-DNL	4FSK	V _N	30	-0.371	-0.393	-0.393	-0.289	-0.227	±5.0	PASS
TX-DNL	4FSK	V _N	40	-0.377	-0.391	-0.391	-0.282	-0.226	±5.0	PASS
TX-DNL	4FSK	V _N	50	-0.360	-0.394	-0.415	-0.289	-0.223	±5.0	PASS
TX-ANH	FM	V _N	-30	-0.130	-0.065	-0.021	0.007	0.015	±5.0	PASS
TX-ANH	FM	V _N	-20	-0.131	-0.066	-0.021	0.008	0.016	±5.0	PASS
TX-ANH	FM	V _N	-10	-0.130	-0.061	-0.022	0.008	0.016	±5.0	PASS
TX-ANH	FM	V _N	0	-0.140	-0.063	-0.022	0.007	0.016	±5.0	PASS
TX-ANH	FM	V _N	10	-0.133	-0.065	-0.023	0.007	0.015	±5.0	PASS
TX-ANH	FM	V _N	20	-0.129	-0.061	-0.021	0.007	0.015	±5.0	PASS
TX-ANH	FM	V _N	30	-0.134	-0.064	-0.021	0.007	0.016	±5.0	PASS
TX-ANH	FM	V _N	40	-0.133	-0.065	-0.021	0.007	0.016	±5.0	PASS
TX-ANH	FM	V _N	50	-0.132	-0.065	-0.023	0.007	0.016	±5.0	PASS
TX-ANL	FM	V _N	-30	-0.104	-0.049	-0.030	-0.010	0.010	±5.0	PASS
TX-ANL	FM	V _N	-20	-0.105	-0.052	-0.031	-0.009	0.009	±5.0	PASS
TX-ANL	FM	V _N	-10	-0.103	-0.053	-0.031	-0.010	0.010	±5.0	PASS
TX-ANL	FM	V _N	0	-0.110	-0.049	-0.032	-0.010	0.010	±5.0	PASS
TX-ANL	FM	V _N	10	-0.105	-0.050	-0.031	-0.009	0.010	±5.0	PASS
TX-ANL	FM	V _N	20	-0.103	-0.048	-0.030	-0.009	0.009	±5.0	PASS
TX-ANL	FM	V _N	30	-0.112	-0.049	-0.032	-0.009	0.009	±5.0	PASS
TX-ANL	FM	V _N	40	-0.111	-0.051	-0.032	-0.009	0.010	±5.0	PASS
TX-ANL	FM	V _N	50	-0.110	-0.053	-0.032	-0.009	0.009	±5.0	PASS

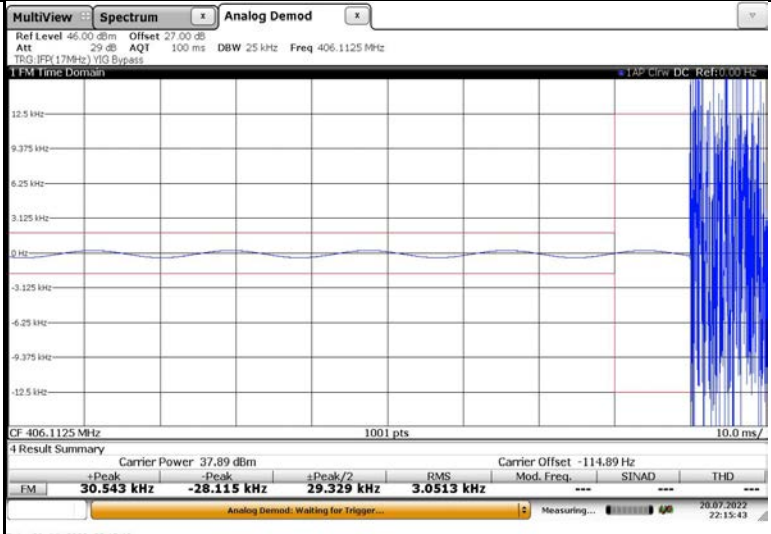
Appendix G:Frequency Stability Test & Voltage

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)					Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _{M1}	CH _{M2}	CH _{M3}	CH _H		
TX-DNH	4FSK	V _N	T _N	-0.380	-0.365	-0.367	-0.267	-0.215	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	-0.383	-0.369	-0.373	-0.271	-0.218	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	-0.389	-0.380	-0.387	-0.278	-0.224	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	-0.347	-0.365	-0.377	-0.279	-0.213	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	-0.349	-0.365	-0.382	-0.279	-0.216	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	-0.365	-0.387	-0.382	-0.291	-0.221	±5.0	PASS
TX-ANH	FM	V _N	T _N	-0.129	-0.061	-0.021	0.007	0.015	±5.0	PASS
TX-ANH	FM	V _L	T _N	-0.129	-0.062	-0.021	0.007	0.015	±5.0	PASS
TX-ANH	FM	V _H	T _N	-0.131	-0.063	-0.022	0.007	0.016	±5.0	PASS
TX-ANL	FM	V _N	T _N	-0.103	-0.048	-0.030	-0.009	0.009	±5.0	PASS
TX-ANL	FM	V _L	T _N	-0.104	-0.049	-0.031	-0.009	0.009	±5.0	PASS
TX-ANL	FM	V _H	T _N	-0.104	-0.050	-0.030	-0.009	0.009	±5.0	PASS

Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																				
TX-DNH	4FSK	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 46.00 dBm Offset 27.00 dB Att 29 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG:IFX(17MHz) YIG Bypass IFM Time Domain TAP Cirv DC Ref0.00 Hz  CF 406.1125 MHz1001 pts10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 37.91 dBm</td><td colspan="2">Carrier Offset -119.12 Hz</td></tr><tr><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td></tr><tr><td>FM 22.363 kHz</td><td>-23.593 kHz</td><td>22.978 kHz</td><td>2.8531 kHz</td></tr><tr><td colspan="2">Mod. Freq.</td><td>SINAD</td><td>THD</td></tr><tr><td colspan="2">---</td><td>---</td><td>---</td></tr></table> Analog Demod. Waiting for Trigger...Measuring...20.07.2022 22:14:56 Date: 20 JUL 2022 22:14:56	Carrier Power 37.91 dBm		Carrier Offset -119.12 Hz		+Peak	-Peak	+Peak/2	RMS	FM 22.363 kHz	-23.593 kHz	22.978 kHz	2.8531 kHz	Mod. Freq.		SINAD	THD	---		---	---
Carrier Power 37.91 dBm		Carrier Offset -119.12 Hz																					
+Peak	-Peak	+Peak/2	RMS																				
FM 22.363 kHz	-23.593 kHz	22.978 kHz	2.8531 kHz																				
Mod. Freq.		SINAD	THD																				
---		---	---																				
TX-DNH	4FSK	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 46.00 dBm Offset 27.00 dB Att 29 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG:IFX(17MHz) YIG Bypass IFM Time Domain TAP Cirv DC Ref0.00 Hz  CF 406.1125 MHz1001 pts10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 37.90 dBm</td><td colspan="2">Carrier Offset -117.77 Hz</td></tr><tr><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td></tr><tr><td>FM 34.867 kHz</td><td>-22.07 kHz</td><td>28.469 kHz</td><td>2.9569 kHz</td></tr><tr><td colspan="2">Mod. Freq.</td><td>SINAD</td><td>THD</td></tr><tr><td colspan="2">---</td><td>---</td><td>---</td></tr></table> Analog Demod. Waiting for Trigger...Measuring...20.07.2022 22:16:14 Date: 20 JUL 2022 22:16:13	Carrier Power 37.90 dBm		Carrier Offset -117.77 Hz		+Peak	-Peak	+Peak/2	RMS	FM 34.867 kHz	-22.07 kHz	28.469 kHz	2.9569 kHz	Mod. Freq.		SINAD	THD	---		---	---
Carrier Power 37.90 dBm		Carrier Offset -117.77 Hz																					
+Peak	-Peak	+Peak/2	RMS																				
FM 34.867 kHz	-22.07 kHz	28.469 kHz	2.9569 kHz																				
Mod. Freq.		SINAD	THD																				
---		---	---																				
TX-ANH	FM	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 46.00 dBm Offset 27.00 dB Att 29 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG:IFX(17MHz) YIG Bypass IFM Time Domain TAP Cirv DC Ref0.00 Hz  CF 406.1125 MHz1001 pts10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 37.91 dBm</td><td colspan="2">Carrier Offset -109.57 Hz</td></tr><tr><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td></tr><tr><td>FM 19.633 kHz</td><td>-21.865 kHz</td><td>20.749 kHz</td><td>2.8618 kHz</td></tr><tr><td colspan="2">Mod. Freq.</td><td>SINAD</td><td>THD</td></tr><tr><td colspan="2">---</td><td>---</td><td>---</td></tr></table> Analog Demod. Waiting for Trigger...Measuring...20.07.2022 22:13:53 Date: 20 JUL 2022 22:13:53	Carrier Power 37.91 dBm		Carrier Offset -109.57 Hz		+Peak	-Peak	+Peak/2	RMS	FM 19.633 kHz	-21.865 kHz	20.749 kHz	2.8618 kHz	Mod. Freq.		SINAD	THD	---		---	---
Carrier Power 37.91 dBm		Carrier Offset -109.57 Hz																					
+Peak	-Peak	+Peak/2	RMS																				
FM 19.633 kHz	-21.865 kHz	20.749 kHz	2.8618 kHz																				
Mod. Freq.		SINAD	THD																				
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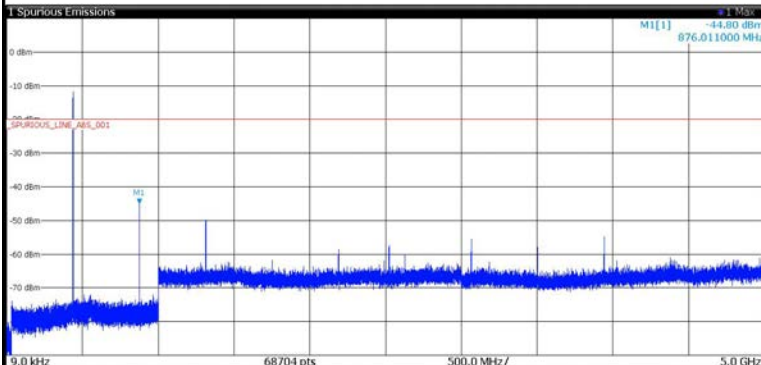
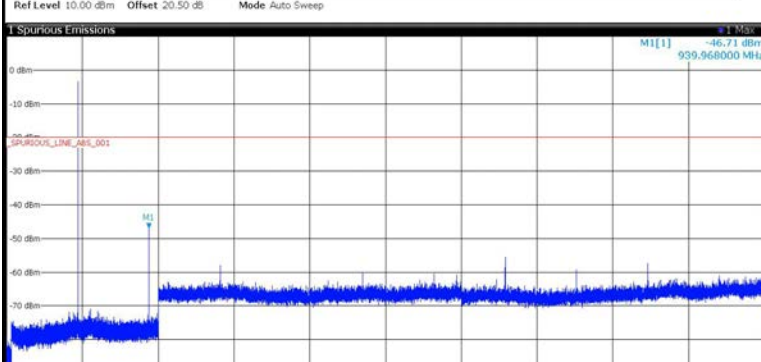
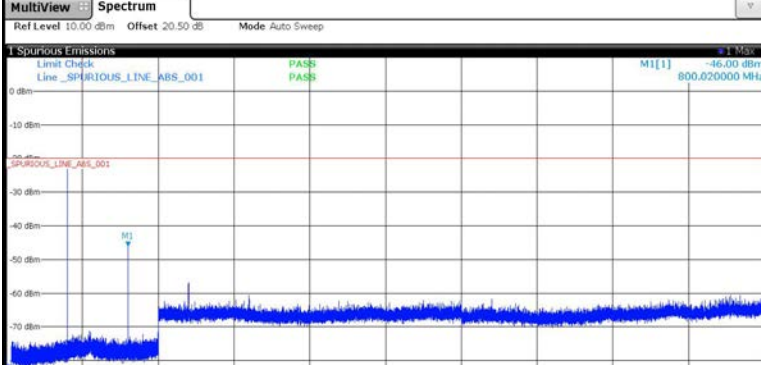
Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _{M2}	 MultiView Spectrum Analog Demod Ref Level 46.00 dBm Offset 27.00 dB Att 29 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG JFFX (17MHz) YIG Bypass CF 406.1125 MHz 1001 pts 10.0 ms/ Carrier Power 37.89 dBm Carrier Offset -114.89 Hz FM 30.543 kHz -28.115 kHz 29.329 kHz 3.0513 kHz Analog Demod: Waiting for Trigger... Date: 20 JUL 2022 22:15:43

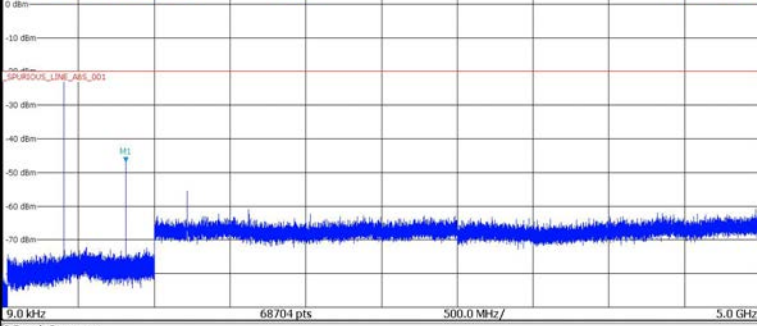
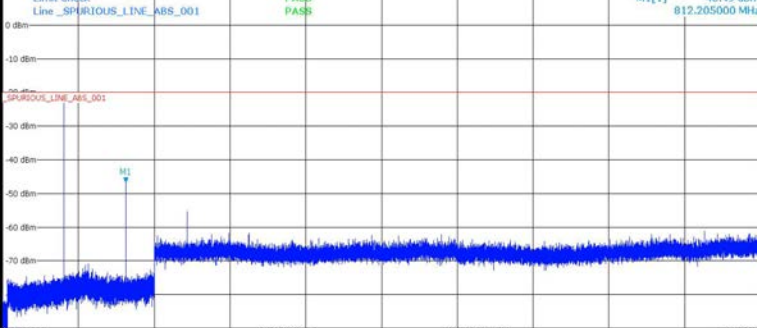
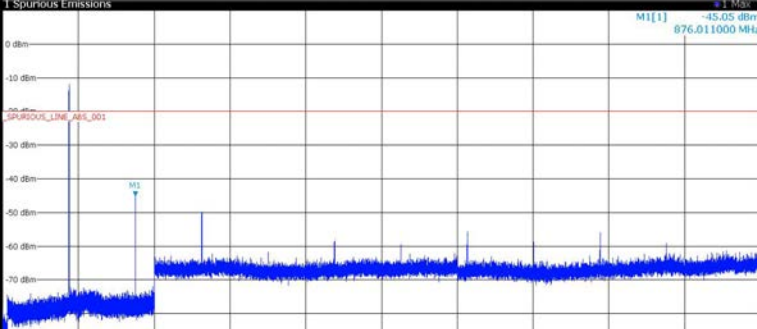
Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																														
TX-DNH	4FSK	CHL	MultiViewSpectrum Ref Level 10.00 dBm Offset 20.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -46.02 dBm 800.020000 MHz 2 Result Summary <table><thead><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>Al Limit</th></tr></thead><tbody><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>24.99073 kHz</td><td>-87.18 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>295.48238 kHz</td><td>-79.62 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>399.99797 MHz</td><td>-22.27 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>1.20018 GHz</td><td>-57.26 dBm</td><td>-200.00 dB</td></tr></tbody></table> Date: 20 JUL 2022 21:47:42	Range Low	Range Up	RBW	Frequency	Power Abs	Al Limit	9.000 kHz	150.000 kHz	1.000 kHz	24.99073 kHz	-87.18 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	295.48238 kHz	-79.62 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	399.99797 MHz	-22.27 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	1.20018 GHz	-57.26 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	Al Limit																												
9.000 kHz	150.000 kHz	1.000 kHz	24.99073 kHz	-87.18 dBm	-200.00 dB																												
150.000 kHz	30.000 MHz	10.000 kHz	295.48238 kHz	-79.62 dBm	-200.00 dB																												
30.000 MHz	1.000 GHz	100.000 kHz	399.99797 MHz	-22.27 dBm	-200.00 dB																												
1.000 GHz	5.000 GHz	1.000 MHz	1.20018 GHz	-57.26 dBm	-200.00 dB																												
TX-DNH	4FSK	CHM1	MultiViewSpectrum Ref Level 10.00 dBm Offset 20.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -46.42 dBm 811.962000 MHz 2 Result Summary <table><thead><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>Al Limit</th></tr></thead><tbody><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>24.78959 kHz</td><td>-88.32 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>302.94301 kHz</td><td>-78.88 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>405.96934 MHz</td><td>-21.21 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>1.21781 GHz</td><td>-56.27 dBm</td><td>-200.00 dB</td></tr></tbody></table> Date: 20 JUL 2022 21:48:13	Range Low	Range Up	RBW	Frequency	Power Abs	Al Limit	9.000 kHz	150.000 kHz	1.000 kHz	24.78959 kHz	-88.32 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	302.94301 kHz	-78.88 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	405.96934 MHz	-21.21 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	1.21781 GHz	-56.27 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	Al Limit																												
9.000 kHz	150.000 kHz	1.000 kHz	24.78959 kHz	-88.32 dBm	-200.00 dB																												
150.000 kHz	30.000 MHz	10.000 kHz	302.94301 kHz	-78.88 dBm	-200.00 dB																												
30.000 MHz	1.000 GHz	100.000 kHz	405.96934 MHz	-21.21 dBm	-200.00 dB																												
1.000 GHz	5.000 GHz	1.000 MHz	1.21781 GHz	-56.27 dBm	-200.00 dB																												
TX-DNH	4FSK	CHM2	MultiViewSpectrum Ref Level 10.00 dBm Offset 20.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -46.33 dBm 812.205000 MHz 2 Result Summary <table><thead><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>Al Limit</th></tr></thead><tbody><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>24.99073 kHz</td><td>-84.55 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>288.02174 kHz</td><td>-78.46 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>406.09059 MHz</td><td>-21.19 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>1.21818 GHz</td><td>-56.41 dBm</td><td>-200.00 dB</td></tr></tbody></table> Date: 20 JUL 2022 21:48:37	Range Low	Range Up	RBW	Frequency	Power Abs	Al Limit	9.000 kHz	150.000 kHz	1.000 kHz	24.99073 kHz	-84.55 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	288.02174 kHz	-78.46 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	406.09059 MHz	-21.19 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	1.21818 GHz	-56.41 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	Al Limit																												
9.000 kHz	150.000 kHz	1.000 kHz	24.99073 kHz	-84.55 dBm	-200.00 dB																												
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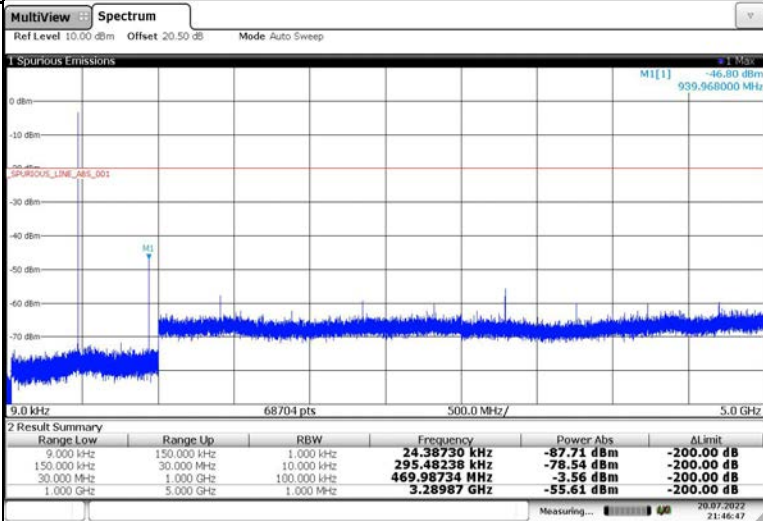
Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																														
TX-DNH	4FSK	CH _{M3}	MultiViewSpectrum Ref Level 10.00 dBm Offset 20.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -44.80 dBm 876.011000 MHz  2 Result Summary <table><thead><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ΔLimit</th></tr></thead><tbody><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>24.78959 kHz</td><td>-85.54 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>295.48238 kHz</td><td>-78.52 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>438.00866 MHz</td><td>-11.88 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>1.31405 GHz</td><td>-49.93 dBm</td><td>-200.00 dB</td></tr></tbody></table> Date: 20 JUL 2022 21:49:02	Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit	9.000 kHz	150.000 kHz	1.000 kHz	24.78959 kHz	-85.54 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	295.48238 kHz	-78.52 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	438.00866 MHz	-11.88 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	1.31405 GHz	-49.93 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit																												
9.000 kHz	150.000 kHz	1.000 kHz	24.78959 kHz	-85.54 dBm	-200.00 dB																												
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1.000 GHz	5.000 GHz	1.000 MHz	1.31405 GHz	-49.93 dBm	-200.00 dB																												
TX-DNH	4FSK	CH _H	MultiViewSpectrum Ref Level 10.00 dBm Offset 20.50 dB Mode Auto Sweep 1 Spurious Emissions M1[1] -46.71 dBm 939.968000 MHz  2 Result Summary <table><thead><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ΔLimit</th></tr></thead><tbody><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>24.99073 kHz</td><td>-86.39 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>295.48238 kHz</td><td>-78.61 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>469.98734 MHz</td><td>-3.52 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>3.28999 GHz</td><td>-55.36 dBm</td><td>-200.00 dB</td></tr></tbody></table> Date: 20 JUL 2022 21:49:25	Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit	9.000 kHz	150.000 kHz	1.000 kHz	24.99073 kHz	-86.39 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	295.48238 kHz	-78.61 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	469.98734 MHz	-3.52 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	3.28999 GHz	-55.36 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit																												
9.000 kHz	150.000 kHz	1.000 kHz	24.99073 kHz	-86.39 dBm	-200.00 dB																												
150.000 kHz	30.000 MHz	10.000 kHz	295.48238 kHz	-78.61 dBm	-200.00 dB																												
30.000 MHz	1.000 GHz	100.000 kHz	469.98734 MHz	-3.52 dBm	-200.00 dB																												
1.000 GHz	5.000 GHz	1.000 MHz	3.28999 GHz	-55.36 dBm	-200.00 dB																												
TX-ANH	FM	CH _L	MultiViewSpectrum Ref Level 10.00 dBm Offset 20.50 dB Mode Auto Sweep 1 Spurious Emissions Limit Check: Line _SPURIOUS_LINE_ABS_001 PASS M1[1] -46.00 dBm 800.020000 MHz  2 Result Summary <table><thead><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ΔLimit</th></tr></thead><tbody><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>9.10057 kHz</td><td>-85.63 dBm</td><td>-65.63 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>295.48238 kHz</td><td>-78.74 dBm</td><td>-58.74 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>399.99797 MHz</td><td>-22.27 dBm</td><td>-2.27 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>1.20006 GHz</td><td>-56.87 dBm</td><td>-36.87 dB</td></tr></tbody></table> Date: 20 JUL 2022 21:43:31	Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit	9.000 kHz	150.000 kHz	1.000 kHz	9.10057 kHz	-85.63 dBm	-65.63 dB	150.000 kHz	30.000 MHz	10.000 kHz	295.48238 kHz	-78.74 dBm	-58.74 dB	30.000 MHz	1.000 GHz	100.000 kHz	399.99797 MHz	-22.27 dBm	-2.27 dB	1.000 GHz	5.000 GHz	1.000 MHz	1.20006 GHz	-56.87 dBm	-36.87 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit																												
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Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																														
TX-ANH	FM	CH _{M1}	MultiViewSpectrum Ref Level 10.00 dBm Offset 20.50 dB Mode Auto Sweep 1 Spurious Emissions Limit Check Line _SPURIOUS_LINE_ABS_001 PASS M1[1] -46.70 dBm 811.962000 MHz  2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>Alimit</th></tr><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>9.10057 kHz</td><td>-87.76 dBm</td><td>-67.76 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>295.48238 kHz</td><td>-79.50 dBm</td><td>-59.50 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>405.96934 MHz</td><td>-21.22 dBm</td><td>-1.22 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>1.21793 GHz</td><td>-55.51 dBm</td><td>-35.51 dB</td></tr></table> Date: 20 JUL 2022 21:45:05	Range Low	Range Up	RBW	Frequency	Power Abs	Alimit	9.000 kHz	150.000 kHz	1.000 kHz	9.10057 kHz	-87.76 dBm	-67.76 dB	150.000 kHz	30.000 MHz	10.000 kHz	295.48238 kHz	-79.50 dBm	-59.50 dB	30.000 MHz	1.000 GHz	100.000 kHz	405.96934 MHz	-21.22 dBm	-1.22 dB	1.000 GHz	5.000 GHz	1.000 MHz	1.21793 GHz	-55.51 dBm	-35.51 dB
Range Low	Range Up	RBW	Frequency	Power Abs	Alimit																												
9.000 kHz	150.000 kHz	1.000 kHz	9.10057 kHz	-87.76 dBm	-67.76 dB																												
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30.000 MHz	1.000 GHz	100.000 kHz	405.96934 MHz	-21.22 dBm	-1.22 dB																												
1.000 GHz	5.000 GHz	1.000 MHz	1.21793 GHz	-55.51 dBm	-35.51 dB																												
TX-ANH	FM	CH _{M2}	MultiViewSpectrum Ref Level 10.00 dBm Offset 20.50 dB Mode Auto Sweep 1 Spurious Emissions Limit Check Line _SPURIOUS_LINE_ABS_001 PASS M1[1] -46.49 dBm 812.205000 MHz  2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>Alimit</th></tr><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>9.10057 kHz</td><td>-87.94 dBm</td><td>-67.94 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>302.94301 kHz</td><td>-79.50 dBm</td><td>-59.50 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>406.09059 MHz</td><td>-21.19 dBm</td><td>-1.19 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>1.21843 GHz</td><td>-55.23 dBm</td><td>-35.23 dB</td></tr></table> Date: 20 JUL 2022 21:45:45	Range Low	Range Up	RBW	Frequency	Power Abs	Alimit	9.000 kHz	150.000 kHz	1.000 kHz	9.10057 kHz	-87.94 dBm	-67.94 dB	150.000 kHz	30.000 MHz	10.000 kHz	302.94301 kHz	-79.50 dBm	-59.50 dB	30.000 MHz	1.000 GHz	100.000 kHz	406.09059 MHz	-21.19 dBm	-1.19 dB	1.000 GHz	5.000 GHz	1.000 MHz	1.21843 GHz	-55.23 dBm	-35.23 dB
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TX-ANH	FM	CH _{M3}	MultiViewSpectrum Ref Level 10.00 dBm Offset 20.50 dB Mode Auto Sweep 1 Spurious Emissions Limit Check Line _SPURIOUS_LINE_ABS_001 PASS M1[1] -45.05 dBm 876.011000 MHz  2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>Alimit</th></tr><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>24.78959 kHz</td><td>-83.87 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>302.94301 kHz</td><td>-79.02 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>438.00866 MHz</td><td>-11.92 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>1.31405 GHz</td><td>-49.77 dBm</td><td>-200.00 dB</td></tr></table> Date: 20 JUL 2022 21:46:24	Range Low	Range Up	RBW	Frequency	Power Abs	Alimit	9.000 kHz	150.000 kHz	1.000 kHz	24.78959 kHz	-83.87 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	302.94301 kHz	-79.02 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	438.00866 MHz	-11.92 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	1.31405 GHz	-49.77 dBm	-200.00 dB
Range Low	Range Up	RBW	Frequency	Power Abs	Alimit																												
9.000 kHz	150.000 kHz	1.000 kHz	24.78959 kHz	-83.87 dBm	-200.00 dB																												
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Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																														
TX-ANH	FM	CH _H	MultiView Spectrum Ref Level 10.00 dBm Offset 20.50 dB Mode Auto Sweep 1 Spurious Emissions  9.0 kHz 68704 pts 500.0 MHz / 5.0 GHz 2 Result Summary <table><thead><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>Alimit</th></tr></thead><tbody><tr><td>9.000 kHz</td><td>150.000 kHz</td><td>1.000 kHz</td><td>24.38730 kHz</td><td>-87.71 dBm</td><td>-200.00 dB</td></tr><tr><td>150.000 kHz</td><td>30.000 MHz</td><td>10.000 kHz</td><td>295.48238 kHz</td><td>-78.54 dBm</td><td>-200.00 dB</td></tr><tr><td>30.000 MHz</td><td>1.000 GHz</td><td>100.000 kHz</td><td>469.98734 MHz</td><td>-3.56 dBm</td><td>-200.00 dB</td></tr><tr><td>1.000 GHz</td><td>5.000 GHz</td><td>1.000 MHz</td><td>3.28987 GHz</td><td>-55.61 dBm</td><td>-200.00 dB</td></tr></tbody></table> Measuring... 20.97.2022 21:46:47 Date: 20 JUL 2022 21:46:47	Range Low	Range Up	RBW	Frequency	Power Abs	Alimit	9.000 kHz	150.000 kHz	1.000 kHz	24.38730 kHz	-87.71 dBm	-200.00 dB	150.000 kHz	30.000 MHz	10.000 kHz	295.48238 kHz	-78.54 dBm	-200.00 dB	30.000 MHz	1.000 GHz	100.000 kHz	469.98734 MHz	-3.56 dBm	-200.00 dB	1.000 GHz	5.000 GHz	1.000 MHz	3.28987 GHz	-55.61 dBm	-200.00 dB
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