

Project No.	SHT2111082202EW		
Test sample No.	YPHT21110822004	Model No.	RB25
Start test date	2021/12/21	Finish date	2022/3/1
Temperature	23.9℃	Humidity	47%
Test Engineer	<i>Casper Chen</i>	Auditor	<i>Xiaodong Zhu</i>

Appendix clause	Test Item	Test date (M/D)	Test Result (PASS/FAIL)
A	Maximum Transmitter Power	3/1	PASS
B	Occupied Bandwidth	12/30	PASS
C	Emission Mask	3/1	PASS
D	Modulation Limit	12/30	PASS
E	Audio Frequency Response	12/30	PASS
F	Frequency Stability Test & Temperature	12/30	PASS
G	Frequency Stability Test & Voltage	12/30	PASS
H	Transmitter Frequency Behavior	12/30	PASS
I	Spurious Emission On Antenna Port	3/1	PASS

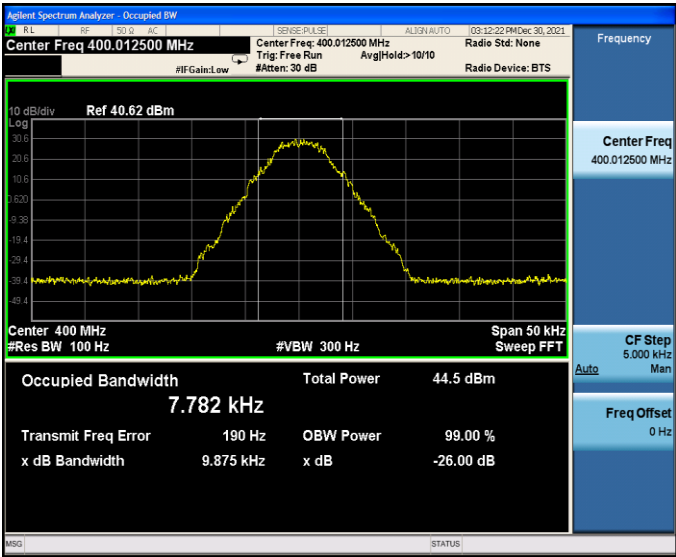
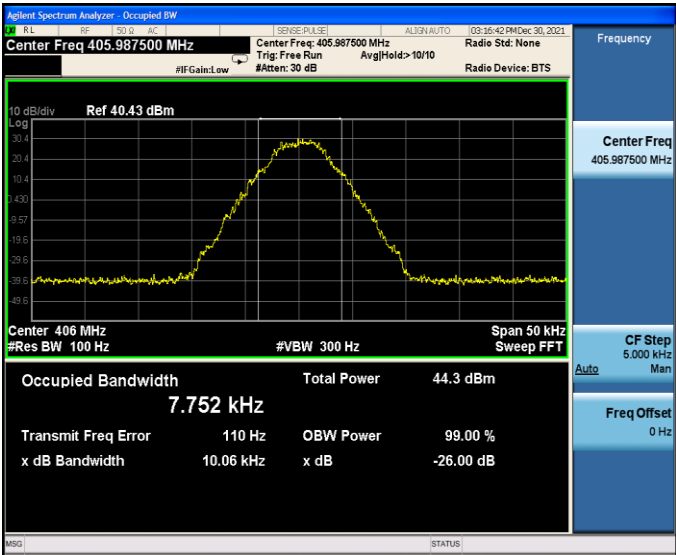
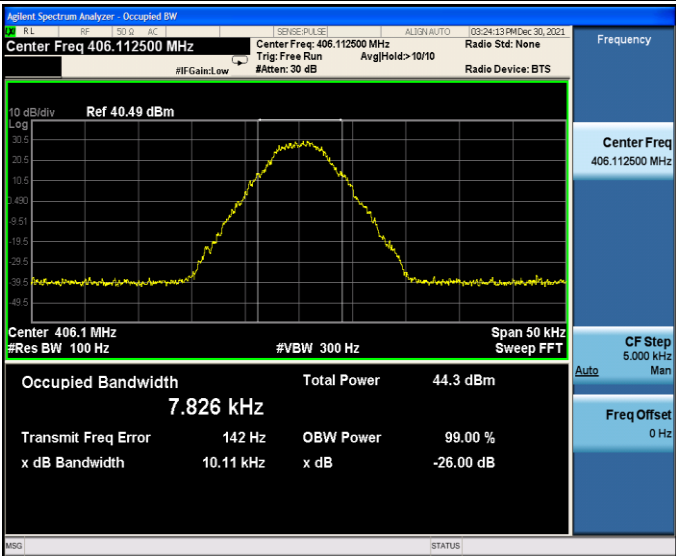
Appendix A:Maximum Transmitter Power

Operation Mode	Modulation Type	Test Channel	Measured Power(dBm)	Measured Power(W)	Rated Power(W)	Percentage(%)	Limit (%)	Result
TX-DNH	4FSK	CH _L	36.2	4.12	4.00	3.0	±20	PASS
TX-DNH	4FSK	CH _{M1}	36.0	3.99	4.00	-0.2	±20	PASS
TX-DNH	4FSK	CH _{M2}	36.1	4.04	4.00	1.0	±20	PASS
TX-DNH	4FSK	CH _{M3}	36.1	4.05	4.00	1.3	±20	PASS
TX-DNH	4FSK	CH _H	36.6	4.58	4.00	14.5	±20	PASS
TX-DNL	4FSK	CH _L	29.8	0.95	1.00	-5.0	±20	PASS
TX-DNL	4FSK	CH _{M1}	29.6	0.91	1.00	-9.0	±20	PASS
TX-DNL	4FSK	CH _{M2}	29.6	0.91	1.00	-9.0	±20	PASS
TX-DNL	4FSK	CH _{M3}	29.3	0.85	1.00	-15.0	±20	PASS
TX-DNL	4FSK	CH _H	29.8	0.95	1.00	-5.0	±20	PASS
TX-ANH	FM	CH _L	35.9	3.91	4.00	-2.3	±20	PASS
TX-ANH	FM	CH _{M1}	35.8	3.77	4.00	-5.8	±20	PASS
TX-ANH	FM	CH _{M2}	35.9	3.85	4.00	-3.8	±20	PASS
TX-ANH	FM	CH _{M3}	36.2	4.13	4.00	3.3	±20	PASS
TX-ANH	FM	CH _H	36.2	4.17	4.00	4.3	±20	PASS
TX-ANL	FM	CH _L	29.1	0.81	1.00	-19.0	±20	PASS
TX-ANL	FM	CH _{M1}	29.2	0.83	1.00	-17.0	±20	PASS
TX-ANL	FM	CH _{M2}	29.3	0.85	1.00	-15.0	±20	PASS
TX-ANL	FM	CH _{M3}	29.1	0.81	1.00	-19.0	±20	PASS
TX-ANL	FM	CH _H	29.3	0.85	1.00	-15.0	±20	PASS

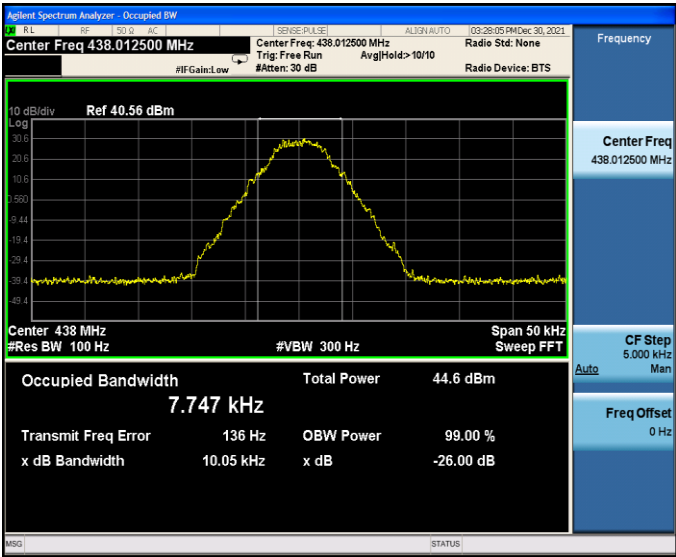
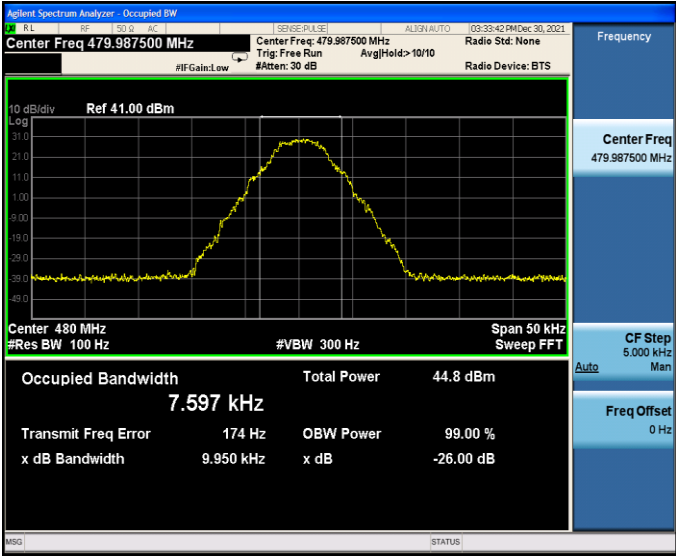
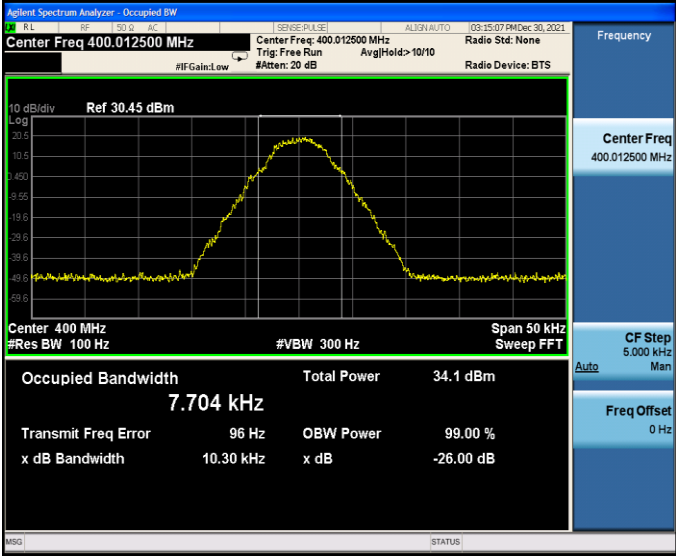
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	Occupied Bandwidth		99% Limit(kHz)	Result
			99%(kHz)	26dB(kHz)		
TX-DNH	4FSK	CH _L	7.782	9.875	≤11.25	PASS
TX-DNH	4FSK	CH _{M1}	7.752	10.060	≤11.25	PASS
TX-DNH	4FSK	CH _{M2}	7.826	10.110	≤11.25	PASS
TX-DNH	4FSK	CH _{M3}	7.747	10.050	≤11.25	PASS
TX-DNH	4FSK	CH _H	7.597	9.950	≤11.25	PASS
TX-DNL	4FSK	CH _L	7.704	10.300	≤11.25	PASS
TX-DNL	4FSK	CH _{M1}	7.799	9.800	≤11.25	PASS
TX-DNL	4FSK	CH _{M2}	7.772	10.030	≤11.25	PASS
TX-DNL	4FSK	CH _{M3}	7.912	10.160	≤11.25	PASS
TX-DNL	4FSK	CH _H	7.660	10.070	≤11.25	PASS
TX-ANH	FM	CH _L	10.039	10.190	≤11.25	PASS
TX-ANH	FM	CH _{M1}	10.039	10.190	≤11.25	PASS
TX-ANH	FM	CH _{M2}	10.037	10.190	≤11.25	PASS
TX-ANH	FM	CH _{M3}	10.038	10.190	≤11.25	PASS
TX-ANH	FM	CH _H	10.038	10.190	≤11.25	PASS
TX-ANL	FM	CH _L	10.036	10.190	≤11.25	PASS
TX-ANL	FM	CH _{M1}	10.036	10.190	≤11.25	PASS
TX-ANL	FM	CH _{M2}	10.039	10.190	≤11.25	PASS
TX-ANL	FM	CH _{M3}	10.039	10.190	≤11.25	PASS
TX-ANL	FM	CH _H	10.042	10.200	≤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: 40.62 dBm Occupied Bandwidth: 7.782 kHz, Total Power: 44.5 dBm Transmit Freq Error: 190 Hz, OBW Power: 99.00 % x dB Bandwidth: 9.875 kHz, x dB: -26.00 dB
TX-DNH	4FSK	CH _{M1}	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 405.987500 MHz, Ref: 40.43 dBm Occupied Bandwidth: 7.752 kHz, Total Power: 44.3 dBm Transmit Freq Error: 110 Hz, OBW Power: 99.00 % x dB Bandwidth: 10.06 kHz, x dB: -26.00 dB
TX-DNH	4FSK	CH _{M2}	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 406.112500 MHz, Ref: 40.49 dBm Occupied Bandwidth: 7.826 kHz, Total Power: 44.3 dBm Transmit Freq Error: 142 Hz, OBW Power: 99.00 % x dB Bandwidth: 10.11 kHz, x dB: -26.00 dB

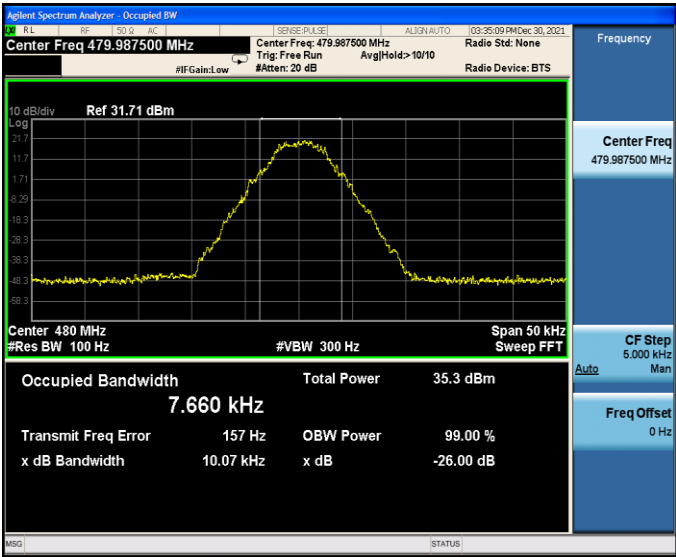
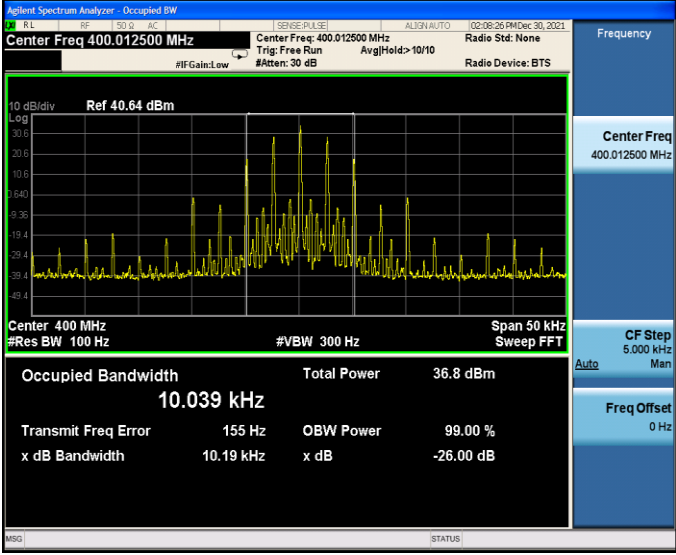
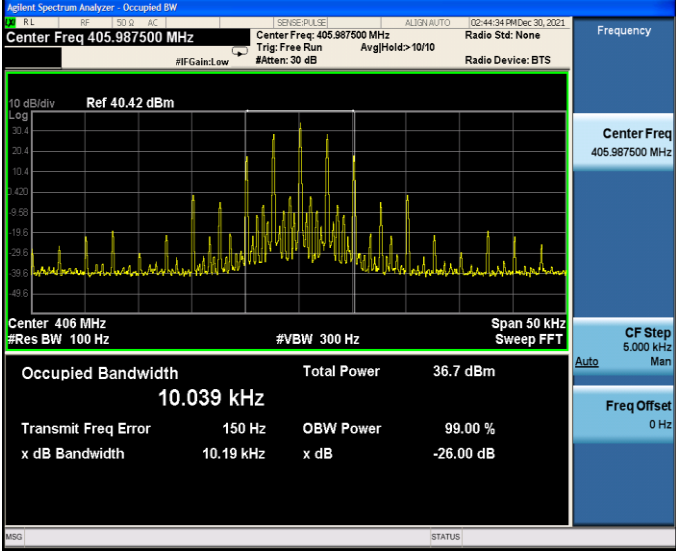
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M3}	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 438.012500 MHz Center Freq: 438.012500 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS Ref 40.56 dBm Center 438 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.747 kHz Total Power 44.6 dBm Transmit Freq Error 136 Hz OBW Power 99.00 % x dB Bandwidth 10.05 kHz x dB -26.00 dB Frequency 438.012500 MHz CF Step 5.000 kHz Freq Offset 0 Hz
TX-DNH	4FSK	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 479.987500 MHz Center Freq: 479.987500 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS Ref 41.00 dBm Center 480 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.597 kHz Total Power 44.8 dBm Transmit Freq Error 174 Hz OBW Power 99.00 % x dB Bandwidth 9.950 kHz x dB -26.00 dB Frequency 479.987500 MHz CF Step 5.000 kHz Freq Offset 0 Hz
TX-DNL	4FSK	CH _L	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 400.012500 MHz Center Freq: 400.012500 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS Ref 30.45 dBm Center 400 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.704 kHz Total Power 34.1 dBm Transmit Freq Error 96 Hz OBW Power 99.00 % x dB Bandwidth 10.30 kHz x dB -26.00 dB Frequency 400.012500 MHz CF Step 5.000 kHz Freq Offset 0 Hz

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 30.13 dBm Occupied Bandwidth 7.799 kHz Total Power 33.9 dBm Transmit Freq Error 241 Hz OBW Power 99.00 % x dB Bandwidth 9.800 kHz x dB -26.00 dB
TX-DNL	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Occupied BW Center Freq 406.112500 MHz Ref 30.53 dBm Occupied Bandwidth 7.772 kHz Total Power 34.1 dBm Transmit Freq Error 159 Hz OBW Power 99.00 % x dB Bandwidth 10.03 kHz x dB -26.00 dB
TX-DNL	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Occupied BW Center Freq 438.012500 MHz Ref 32.08 dBm Occupied Bandwidth 7.912 kHz Total Power 35.8 dBm Transmit Freq Error 221 Hz OBW Power 99.00 % x dB Bandwidth 10.16 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: 479.987500 MHz Center Freq: 479.987500 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS Ref 31.71 dBm Center 480 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.660 kHz Total Power 35.3 dBm Transmit Freq Error 157 Hz OBW Power 99.00 % x dB Bandwidth 10.07 kHz x dB -26.00 dB Frequency 479.987500 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 Center Freq: 400.012500 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS Ref 40.64 dBm Center 400 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 10.039 kHz Total Power 36.8 dBm Transmit Freq Error 155 Hz OBW Power 99.00 % x dB Bandwidth 10.19 kHz x dB -26.00 dB Frequency 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 Center Freq: 405.987500 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS Ref 40.42 dBm Center 406 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 10.039 kHz Total Power 36.7 dBm Transmit Freq Error 150 Hz OBW Power 99.00 % x dB Bandwidth 10.19 kHz x dB -26.00 dB Frequency 405.987500 MHz CF Step 5.000 kHz Freq Offset 0 Hz

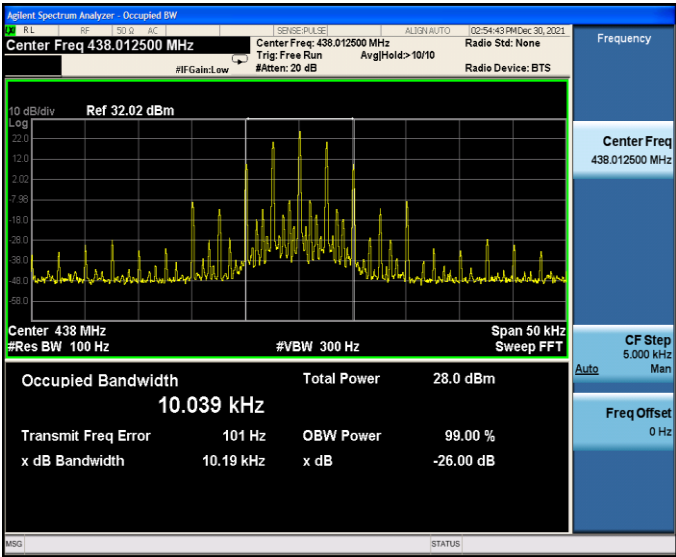
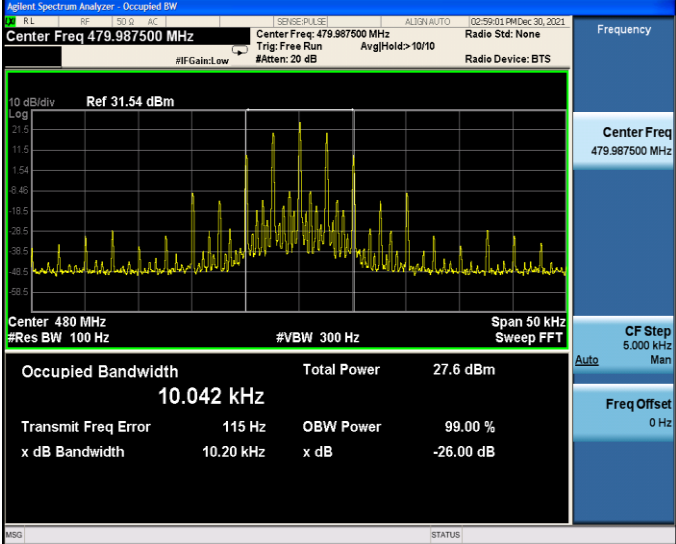
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _{M2}	Agilent Spectrum Analyzer - Occupied BW Center Freq: 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS Ref 40.48 dBm Center 406.1 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 10.037 kHz Total Power 36.5 dBm Transmit Freq Error 98 Hz OBW Power 99.00 % x dB Bandwidth 10.19 kHz x dB -26.00 dB Frequency 406.112500 MHz CF Step 5.000 kHz Freq Offset 0 Hz
TX-ANH	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 Ref 40.52 dBm Center 438 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 10.038 kHz Total Power 36.5 dBm Transmit Freq Error 99 Hz OBW Power 99.00 % x dB Bandwidth 10.19 kHz x dB -26.00 dB Frequency 438.012500 MHz CF Step 5.000 kHz Freq Offset 0 Hz
TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Occupied BW Center Freq: 479.987500 MHz Center Freq: 479.987500 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS Ref 40.93 dBm Center 480 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 10.038 kHz Total Power 37.0 dBm Transmit Freq Error 111 Hz OBW Power 99.00 % x dB Bandwidth 10.19 kHz x dB -26.00 dB Frequency 479.987500 MHz CF Step 5.000 kHz Freq Offset 0 Hz

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Occupied BW Center Freq: 400.012500 MHz Center Freq: 400.012500 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS Ref 30.26 dBm Center 400 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 10.036 kHz Total Power 26.2 dBm Transmit Freq Error 101 Hz OBW Power 99.00 % x dB Bandwidth 10.19 kHz x dB -26.00 dB Frequency 400.012500 MHz CF Step 5.000 kHz Freq Offset 0 Hz
TX-ANL	FM	CH _{M1}	Agilent Spectrum Analyzer - Occupied BW Center Freq: 405.987500 MHz Center Freq: 405.987500 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS Ref 30.14 dBm Center 406 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 10.036 kHz Total Power 26.1 dBm Transmit Freq Error 100 Hz OBW Power 99.00 % x dB Bandwidth 10.19 kHz x dB -26.00 dB Frequency 405.987500 MHz CF Step 5.000 kHz Freq Offset 0 Hz
TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Occupied BW Center Freq: 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS Ref 30.36 dBm Center 406.1 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 10.039 kHz Total Power 26.3 dBm Transmit Freq Error 94 Hz OBW Power 99.00 % x dB Bandwidth 10.19 kHz x dB -26.00 dB Frequency 406.112500 MHz CF Step 5.000 kHz Freq Offset 0 Hz

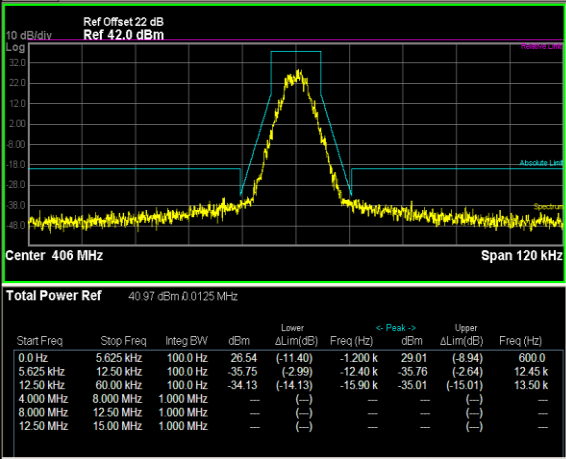
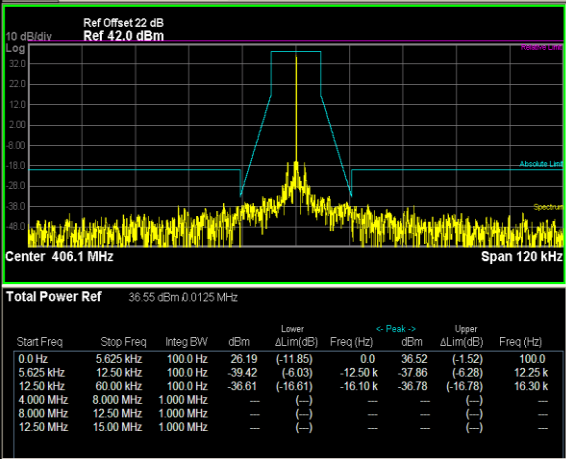
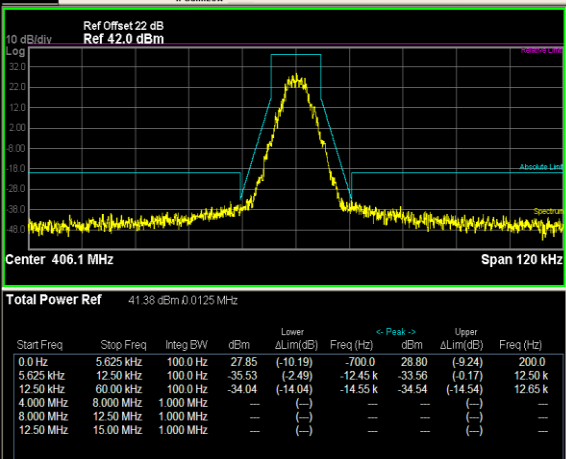
Appendix B:Occupied Bandwidth

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 Ref 32.02 dBm Center 438 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 10.039 kHz Total Power 28.0 dBm Transmit Freq Error 101 Hz OBW Power 99.00 % x dB Bandwidth 10.19 kHz x dB -26.00 dB Frequency 438.012500 MHz CF Step 5.000 kHz Freq Offset 0 Hz
TX-ANL	FM	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 479.987500 MHz Center Freq: 479.987500 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS Ref 31.54 dBm Center 480 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 10.042 kHz Total Power 27.6 dBm Transmit Freq Error 115 Hz OBW Power 99.00 % x dB Bandwidth 10.20 kHz x dB -26.00 dB Frequency 479.987500 MHz CF Step 5.000 kHz Freq Offset 0 Hz

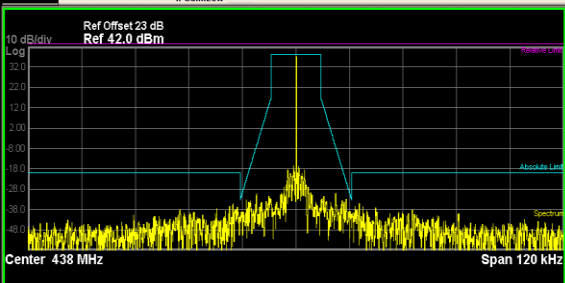
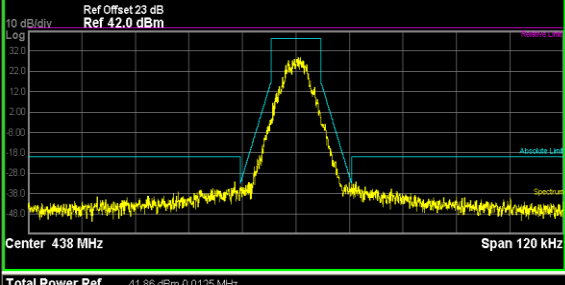
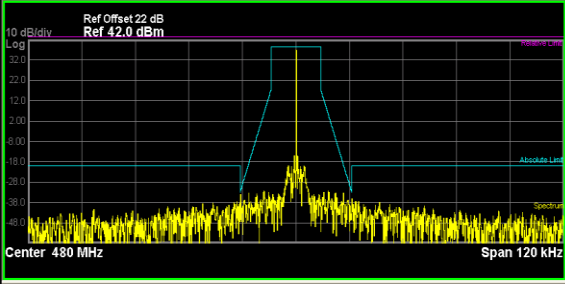
Appendix C:Emission Mask

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 Trig: Free Run #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 42.0 dBm Center 400 MHz Span 120 kHz Total Power Ref 36.65 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 -> dBm</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>23.87</td><td>(-14.28)</td><td>0.0</td><td>36.68</td><td>(-1.46)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.04</td><td>(-8.29)</td><td>-12.15 k</td><td>-39.41</td><td>(-7.21)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.52</td><td>(-16.52)</td><td>-17.05 k</td><td>-36.27</td><td>(-16.27)</td><td>17.25 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> Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Man Auto 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	23.87	(-14.28)	0.0	36.68	(-1.46)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-39.04	(-8.29)	-12.15 k	-39.41	(-7.21)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.52	(-16.52)	-17.05 k	-36.27	(-16.27)	17.25 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	23.87	(-14.28)	0.0	36.68	(-1.46)	100.0																																																										
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12.50 kHz	60.00 kHz	100.0 Hz	-36.52	(-16.52)	-17.05 k	-36.27	(-16.27)	17.25 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 Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 42.0 dBm Center 400 MHz Span 120 kHz Total Power Ref 41.47 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 -> dBm</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>28.58</td><td>(-9.56)</td><td>-500.0</td><td>29.42</td><td>(-8.72)</td><td>450.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.84</td><td>(-2.91)</td><td>-12.45 k</td><td>-37.72</td><td>(-4.79)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.91</td><td>(-13.91)</td><td>-16.00 k</td><td>-33.67</td><td>(-13.67)</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></table> Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Man Auto 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	28.58	(-9.56)	-500.0	29.42	(-8.72)	450.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.84	(-2.91)	-12.45 k	-37.72	(-4.79)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.91	(-13.91)	-16.00 k	-33.67	(-13.67)	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	—	(—)	—	—	(—)	—
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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 Trig: Free Run #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 42.0 dBm Center 406 MHz Span 120 kHz Total Power Ref 36.50 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 -> dBm</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>26.16</td><td>(-11.79)</td><td>0.0</td><td>36.46</td><td>(-1.49)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.84</td><td>(-8.17)</td><td>-12.25 k</td><td>-39.90</td><td>(-7.13)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.73</td><td>(-15.73)</td><td>-12.60 k</td><td>-36.02</td><td>(-16.02)</td><td>18.55 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> Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Man Auto 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	26.16	(-11.79)	0.0	36.46	(-1.49)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-39.84	(-8.17)	-12.25 k	-39.90	(-7.13)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.73	(-15.73)	-12.60 k	-36.02	(-16.02)	18.55 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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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL SENSE PULSE ALIGN AUTO 03:17:52 PM Dec 30, 2021 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 22 dB Ref 42.0 dBm  Center 406 MHz Span 120 kHz Total Power Ref 40.97 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 > dEm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>26.54</td><td>(-11.40)</td><td>-1.200 k</td><td>29.01</td><td>(-8.94)</td><td>600.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.75</td><td>(-2.99)</td><td>-12.40 k</td><td>-35.76</td><td>(-2.64)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.13</td><td>(-14.13)</td><td>-15.90 k</td><td>-35.01</td><td>(-15.01)</td><td>13.50 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> MSO 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 > dEm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	26.54	(-11.40)	-1.200 k	29.01	(-8.94)	600.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.75	(-2.99)	-12.40 k	-35.76	(-2.64)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.13	(-14.13)	-15.90 k	-35.01	(-15.01)	13.50 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL SENSE PULSE ALIGN AUTO 03:26:56 PM Dec 30, 2021 Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run #Atten: 40 dB Radio Std: None PASS IF Gain: Low Radio Device: BTS Ref Offset 22 dB Ref 42.0 dBm  Center 406.1 MHz Span 120 kHz Total Power Ref 36.55 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 > dEm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>26.19</td><td>(-11.85)</td><td>0.0</td><td>36.52</td><td>(-1.52)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.42</td><td>(-6.03)</td><td>-12.50 k</td><td>-37.86</td><td>(-6.28)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.61</td><td>(-16.61)</td><td>-16.10 k</td><td>-36.78</td><td>(-16.78)</td><td>16.30 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> MSO 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 > dEm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	26.19	(-11.85)	0.0	36.52	(-1.52)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-39.42	(-6.03)	-12.50 k	-37.86	(-6.28)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.61	(-16.61)	-16.10 k	-36.78	(-16.78)	16.30 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 _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL SENSE PULSE ALIGN AUTO 03:27:45 PM Dec 30, 2021 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 Radio Device: BTS Ref Offset 22 dB Ref 42.0 dBm  Center 406.1 MHz Span 120 kHz Total Power Ref 41.38 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 > dEm</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>27.85</td><td>(-10.19)</td><td>-700.0</td><td>28.80</td><td>(-9.24)</td><td>200.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.53</td><td>(-2.49)</td><td>-12.45 k</td><td>-33.56</td><td>(-0.17)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.04</td><td>(-14.04)</td><td>-14.55 k</td><td>-34.54</td><td>(-14.54)</td><td>12.65 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> MSO 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 > dEm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	27.85	(-10.19)	-700.0	28.80	(-9.24)	200.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.53	(-2.49)	-12.45 k	-33.56	(-0.17)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.04	(-14.04)	-14.55 k	-34.54	(-14.54)	12.65 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 150.0 AC SENSE PULSE ALIGN AUTO 09:30:30 PM Dec 30, 2021 Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Trig: Free Run Radio Std: None PASS IF Gain: Low #Attenu: 40 dB Radio Device: BTS 10 dB/div Ref Offset 23 dB Ref 42.0 dBm  Center 438 MHz Span 120 kHz Total Power Ref 37.20 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>16.05</td><td>(-21.97)</td><td>0.0</td><td>37.23</td><td>(-0.79)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.00</td><td>(-8.30)</td><td>-12.40 k</td><td>-38.97</td><td>(-6.64)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.05</td><td>(-15.05)</td><td>-14.00 k</td><td>-34.98</td><td>(-14.98)</td><td>14.25 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	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	16.05	(-21.97)	0.0	37.23	(-0.79)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.00	(-8.30)	-12.40 k	-38.97	(-6.64)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.05	(-15.05)	-14.00 k	-34.98	(-14.98)	14.25 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 _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 150.0 AC SENSE PULSE ALIGN AUTO 09:31:05 PM Dec 30, 2021 Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None PASS IF Gain: Low #Attenu: 40 dB Radio Device: BTS 10 dB/div Ref Offset 23 dB Ref 42.0 dBm  Center 438 MHz Span 120 kHz Total Power Ref 41.86 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>27.98</td><td>(-10.04)</td><td>300.0</td><td>29.09</td><td>(-8.93)</td><td>550.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.36</td><td>(-0.94)</td><td>-12.50 k</td><td>-33.52</td><td>(-0.10)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-32.40</td><td>(-12.40)</td><td>-13.65 k</td><td>-32.43</td><td>(-12.43)</td><td>13.45 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved 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 -> dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	27.98	(-10.04)	300.0	29.09	(-8.93)	550.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.36	(-0.94)	-12.50 k	-33.52	(-0.10)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-32.40	(-12.40)	-13.65 k	-32.43	(-12.43)	13.45 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak -> dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 150.0 AC SENSE PULSE ALIGN AUTO 09:34:11 PM Dec 30, 2021 Center Freq 479.987500 MHz Center Freq: 479.987500 MHz Trig: Free Run Radio Std: None PASS IF Gain: Low #Attenu: 40 dB Radio Device: BTS 10 dB/div Ref Offset 22 dB Ref 42.0 dBm  Center 480 MHz Span 120 kHz Total Power Ref 36.94 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>15.79</td><td>(-22.70)</td><td>0.0</td><td>36.95</td><td>(-1.54)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-33.91</td><td>(-2.06)</td><td>-12.35 k</td><td>-36.64</td><td>(-9.24)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.42</td><td>(-17.42)</td><td>-13.20 k</td><td>-36.34</td><td>(-16.34)</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 479.987500 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	15.79	(-22.70)	0.0	36.95	(-1.54)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-33.91	(-2.06)	-12.35 k	-36.64	(-9.24)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.42	(-17.42)	-13.20 k	-36.34	(-16.34)	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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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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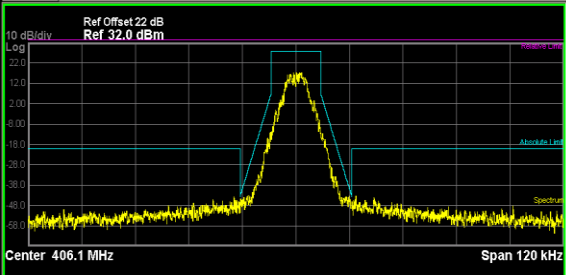
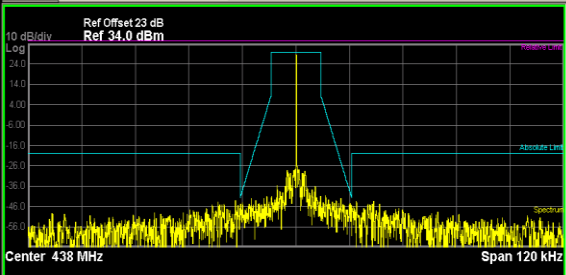
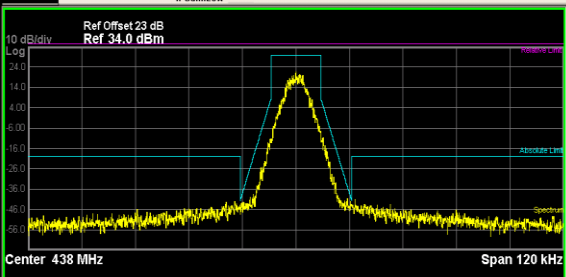
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																						
TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL SE (SE PULSE) ALIGN AUTO 03:34:41 PM Dec 30, 2021 Center Freq 479.987500 MHz Center Freq: 479.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 42.0 dBm 10 dB/div Log 22.0 2.00 -18.0 -28.0 -38.0 -48.0 20.0 2.00 -18.0 -28.0 -38.0 -48.0 Mask Edge Mask Level Spectrum Center 480 MHz Span 120 kHz Total Power Ref 41.38 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>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>27.54</td><td>(-10.96)</td><td>-900.0</td><td>27.85</td><td>(-10.65)</td><td>350.0</td><td></td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.45</td><td>(-1.87)</td><td>-12.45 k</td><td>-33.58</td><td>(-1.73)</td><td>12.35 k</td><td></td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.08</td><td>(-14.08)</td><td>-13.35 k</td><td>-34.01</td><td>(-14.01)</td><td>12.85 k</td><td></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><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><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><td></td></tr></tbody></table> MSO File <Temp.png> saved STATUS Frequency Center Freq 479.987500 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	27.54	(-10.96)	-900.0	27.85	(-10.65)	350.0		5.625 kHz	12.50 kHz	100.0 Hz	-34.45	(-1.87)	-12.45 k	-33.58	(-1.73)	12.35 k		12.50 kHz	60.00 kHz	100.0 Hz	-34.08	(-14.08)	-13.35 k	-34.01	(-14.01)	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-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL SE (SE PULSE) ALIGN AUTO 03:35:35 PM Dec 30, 2021 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 32.0 dBm 10 dB/div Log 22.0 2.00 -18.0 -28.0 -38.0 -48.0 -58.0 20.0 2.00 -18.0 -28.0 -38.0 -48.0 -58.0 Mask Edge Mask Level Spectrum Center 400 MHz Span 120 kHz Total Power Ref 26.51 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>dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>15.43</td><td>(-12.53)</td><td>0.0</td><td>26.50</td><td>(-1.46)</td><td>100.0</td><td></td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-49.29</td><td>(-5.81)</td><td>-12.50 k</td><td>-48.85</td><td>(-5.73)</td><td>12.45 k</td><td></td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-45.79</td><td>(-25.79)</td><td>-19.70 k</td><td>-45.78</td><td>(-25.78)</td><td>16.35 k</td><td></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><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><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><td></td></tr></tbody></table> MSO 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	15.43	(-12.53)	0.0	26.50	(-1.46)	100.0		5.625 kHz	12.50 kHz	100.0 Hz	-49.29	(-5.81)	-12.50 k	-48.85	(-5.73)	12.45 k		12.50 kHz	60.00 kHz	100.0 Hz	-45.79	(-25.79)	-19.70 k	-45.78	(-25.78)	16.35 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	—	(—)	—	—	(—)	—	
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TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL SE (SE PULSE) ALIGN AUTO 03:36:21 PM Dec 30, 2021 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 32.0 dBm 10 dB/div Log 22.0 2.00 -18.0 -28.0 -38.0 -48.0 -58.0 20.0 2.00 -18.0 -28.0 -38.0 -48.0 -58.0 Mask Edge Mask Level Spectrum Center 400 MHz Span 120 kHz Total Power Ref 31.33 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>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>17.78</td><td>(-10.18)</td><td>-50.00</td><td>19.00</td><td>(-8.96)</td><td>550.0</td><td></td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-46.66</td><td>(-3.55)</td><td>-12.45 k</td><td>-46.27</td><td>(-3.52)</td><td>12.40 k</td><td></td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-44.69</td><td>(-24.69)</td><td>-18.30 k</td><td>-44.50</td><td>(-24.50)</td><td>13.25 k</td><td></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><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><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><td></td></tr></tbody></table> MSO 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	17.78	(-10.18)	-50.00	19.00	(-8.96)	550.0		5.625 kHz	12.50 kHz	100.0 Hz	-46.66	(-3.55)	-12.45 k	-46.27	(-3.52)	12.40 k		12.50 kHz	60.00 kHz	100.0 Hz	-44.69	(-24.69)	-18.30 k	-44.50	(-24.50)	13.25 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 _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SEIZE PULSE ALIGN AUTO 03:22:20 PM Dec 30, 2021 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Trig: Free Run #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 22 dB Ref 32.0 dBm 10 dB/div Log 22.0 2.00 8.00 18.0 28.0 38.0 48.0 58.0 Center 406 MHz Span 120 kHz Total Power Ref 26.19 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 -> dBm</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>12.01</td><td>(-15.71)</td><td>0.0</td><td>26.19</td><td>(-1.53)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-47.09</td><td>(-4.47)</td><td>-12.35 k</td><td>-46.73</td><td>(-5.55)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-48.47</td><td>(-28.47)</td><td>-14.70 k</td><td>-48.51</td><td>(-28.51)</td><td>22.80 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> MSG STATUS Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz <tr><td>TX-DNL</td><td>4FSK</td><td>CH_{M1}</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SEIZE PULSE ALIGN AUTO 03:23:54 PM Dec 30, 2021 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 22 dB Ref 32.0 dBm 10 dB/div Log 22.0 2.00 8.00 18.0 28.0 38.0 48.0 58.0 Center 406 MHz Span 120 kHz Total Power Ref 30.90 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 -> dBm</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>17.59</td><td>(-10.13)</td><td>-50.00</td><td>19.07</td><td>(-8.65)</td><td>750.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-46.92</td><td>(-3.20)</td><td>-12.50 k</td><td>-42.41</td><td>(-1.24)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-45.17</td><td>(-25.17)</td><td>-14.30 k</td><td>-44.66</td><td>(-24.66)</td><td>13.55 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> MSG File <Temp.png> saved STATUS Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz <tr><td>TX-DNL</td><td>4FSK</td><td>CH_{M2}</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SEIZE PULSE ALIGN AUTO 03:24:42 PM Dec 30, 2021 Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 22 dB Ref 32.0 dBm 10 dB/div Log 22.0 2.00 8.00 18.0 28.0 38.0 48.0 58.0 Center 406.1 MHz Span 120 kHz Total Power Ref 26.42 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 -> dBm</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>16.08</td><td>(-11.81)</td><td>0.0</td><td>26.38</td><td>(-1.51)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-48.15</td><td>(-5.70)</td><td>-12.35 k</td><td>-49.11</td><td>(-5.56)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-47.77</td><td>(-27.77)</td><td>-24.40 k</td><td>-46.95</td><td>(-26.95)</td><td>14.20 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> MSG File <MASK D.state> recalled STATUS Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz </td></tr></td></tr>	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	12.01	(-15.71)	0.0	26.19	(-1.53)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-47.09	(-4.47)	-12.35 k	-46.73	(-5.55)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-48.47	(-28.47)	-14.70 k	-48.51	(-28.51)	22.80 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-DNL	4FSK	CH _{M1}	Agilent Spectrum Analyzer - 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TX-DNL	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SEIZE PULSE ALIGN AUTO 03:23:54 PM Dec 30, 2021 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 22 dB Ref 32.0 dBm 10 dB/div Log 22.0 2.00 8.00 18.0 28.0 38.0 48.0 58.0 Center 406 MHz Span 120 kHz Total Power Ref 30.90 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 -> dBm</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>17.59</td><td>(-10.13)</td><td>-50.00</td><td>19.07</td><td>(-8.65)</td><td>750.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-46.92</td><td>(-3.20)</td><td>-12.50 k</td><td>-42.41</td><td>(-1.24)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-45.17</td><td>(-25.17)</td><td>-14.30 k</td><td>-44.66</td><td>(-24.66)</td><td>13.55 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> MSG File <Temp.png> saved STATUS Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz <tr><td>TX-DNL</td><td>4FSK</td><td>CH_{M2}</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SEIZE PULSE ALIGN AUTO 03:24:42 PM Dec 30, 2021 Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 22 dB Ref 32.0 dBm 10 dB/div Log 22.0 2.00 8.00 18.0 28.0 38.0 48.0 58.0 Center 406.1 MHz Span 120 kHz Total Power Ref 26.42 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 -> dBm</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>16.08</td><td>(-11.81)</td><td>0.0</td><td>26.38</td><td>(-1.51)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-48.15</td><td>(-5.70)</td><td>-12.35 k</td><td>-49.11</td><td>(-5.56)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-47.77</td><td>(-27.77)</td><td>-24.40 k</td><td>-46.95</td><td>(-26.95)</td><td>14.20 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> MSG File <MASK D.state> recalled STATUS Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz </td></tr>	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	17.59	(-10.13)	-50.00	19.07	(-8.65)	750.0	5.625 kHz	12.50 kHz	100.0 Hz	-46.92	(-3.20)	-12.50 k	-42.41	(-1.24)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-45.17	(-25.17)	-14.30 k	-44.66	(-24.66)	13.55 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-DNL	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SEIZE PULSE ALIGN AUTO 03:24:42 PM Dec 30, 2021 Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 22 dB Ref 32.0 dBm 10 dB/div Log 22.0 2.00 8.00 18.0 28.0 38.0 48.0 58.0 Center 406.1 MHz Span 120 kHz Total Power Ref 26.42 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 -> dBm</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>16.08</td><td>(-11.81)</td><td>0.0</td><td>26.38</td><td>(-1.51)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-48.15</td><td>(-5.70)</td><td>-12.35 k</td><td>-49.11</td><td>(-5.56)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-47.77</td><td>(-27.77)</td><td>-24.40 k</td><td>-46.95</td><td>(-26.95)</td><td>14.20 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> MSG File <MASK D.state> recalled STATUS Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Man Auto 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	16.08	(-11.81)	0.0	26.38	(-1.51)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-48.15	(-5.70)	-12.35 k	-49.11	(-5.56)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-47.77	(-27.77)	-24.40 k	-46.95	(-26.95)	14.20 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																			
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TX-DNL	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SEIZE PULSE ALIGN AUTO 03:24:42 PM Dec 30, 2021 Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Trig: Free Run #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 22 dB Ref 32.0 dBm 10 dB/div Log 22.0 2.00 8.00 18.0 28.0 38.0 48.0 58.0 Center 406.1 MHz Span 120 kHz Total Power Ref 26.42 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 -> dBm</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>16.08</td><td>(-11.81)</td><td>0.0</td><td>26.38</td><td>(-1.51)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-48.15</td><td>(-5.70)</td><td>-12.35 k</td><td>-49.11</td><td>(-5.56)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-47.77</td><td>(-27.77)</td><td>-24.40 k</td><td>-46.95</td><td>(-26.95)</td><td>14.20 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> MSG File <MASK D.state> recalled STATUS Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Man Auto 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	16.08	(-11.81)	0.0	26.38	(-1.51)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-48.15	(-5.70)	-12.35 k	-49.11	(-5.56)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-47.77	(-27.77)	-24.40 k	-46.95	(-26.95)	14.20 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																																																																																																						
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SERIAL PULSE ALIGN AUTO 03-25-23 PM Dec 30, 2021 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 22 dB Ref 32.0 dBm 10 dB/div Log  Center 406.1 MHz Span 120 kHz Total Power Ref 31.03 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>17.14</td><td>(-10.75)</td><td>-550.0</td><td>17.37</td><td>(-10.53)</td><td>950.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-45.47</td><td>(-2.29)</td><td>-12.45 k</td><td>-45.19</td><td>(-4.19)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.77</td><td>(-23.77)</td><td>-13.85 k</td><td>-43.30</td><td>(-23.30)</td><td>13.45 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> MSO File <Temp.png> saved STATUS Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Auto 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	17.14	(-10.75)	-550.0	17.37	(-10.53)	950.0	5.625 kHz	12.50 kHz	100.0 Hz	-45.47	(-2.29)	-12.45 k	-45.19	(-4.19)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.77	(-23.77)	-13.85 k	-43.30	(-23.30)	13.45 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNL	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SERIAL PULSE ALIGN AUTO 03-30-23 PM Dec 30, 2021 Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 23 dB Ref 34.0 dBm 10 dB/div Log  Center 438 MHz Span 120 kHz Total Power Ref 28.77 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>13.53</td><td>(-16.09)</td><td>0.0</td><td>28.78</td><td>(-0.85)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-45.11</td><td>(-4.75)</td><td>-12.30 k</td><td>-45.15</td><td>(-3.70)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.07</td><td>(-23.07)</td><td>-13.45 k</td><td>-43.44</td><td>(-23.44)</td><td>13.65 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> MSO File <MASK D.state> recalled STATUS Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto 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	13.53	(-16.09)	0.0	28.78	(-0.85)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-45.11	(-4.75)	-12.30 k	-45.15	(-3.70)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.07	(-23.07)	-13.45 k	-43.44	(-23.44)	13.65 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-DNL	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SERIAL PULSE ALIGN AUTO 03-30-24 PM Dec 30, 2021 Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 23 dB Ref 34.0 dBm 10 dB/div Log  Center 438 MHz Span 120 kHz Total Power Ref 33.56 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>21.80</td><td>(-7.83)</td><td>0.0</td><td>21.80</td><td>(-7.83)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.98</td><td>(-3.71)</td><td>-12.15 k</td><td>-41.92</td><td>(-1.20)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.90</td><td>(-21.90)</td><td>-13.65 k</td><td>-41.11</td><td>(-21.11)</td><td>13.25 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> MSO File <Temp.png> saved STATUS Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto 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	21.80	(-7.83)	0.0	21.80	(-7.83)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.98	(-3.71)	-12.15 k	-41.92	(-1.20)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.90	(-21.90)	-13.65 k	-41.11	(-21.11)	13.25 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 _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 150.0 AC 1 SENSE PULSE ALIGN AUTO 03:35:41 PM Dec 30, 2021 Center Freq 479.987500 MHz Center Freq: 479.987500 MHz Trig: Free Run Radio Std: None PASS IF Gain: Low #Attenu: 40 dB Radio Device: BTS 10 dB/div Ref Offset 22 dB Ref 33.0 dBm 10.0 23.0 13.0 3.00 7.00 17.0 27.0 37.0 47.0 57.0 10.0 23.0 13.0 3.00 7.00 17.0 27.0 37.0 47.0 57.0 Center 480 MHz Span 120 kHz Total Power Ref 27.70 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>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>4.941</td><td>(-24.25)</td><td>0.0</td><td>27.71</td><td>(-1.48)</td><td>100.0</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-45.50</td><td>(-5.43)</td><td>-12.20 k</td><td>-45.80</td><td>(-3.55)</td><td>12.50 k</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-44.22</td><td>(-24.22)</td><td>-13.65 k</td><td>-45.62</td><td>(-25.62)</td><td>12.95 k</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><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><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><td>—</td></tr></tbody></table> File <MASK.D.state> recalled STATUS Frequency Center Freq 479.987500 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	4.941	(-24.25)	0.0	27.71	(-1.48)	100.0	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-45.50	(-5.43)	-12.20 k	-45.80	(-3.55)	12.50 k	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-44.22	(-24.22)	-13.65 k	-45.62	(-25.62)	12.95 k	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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TX-DNL	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 150.0 AC 1 SENSE PULSE ALIGN AUTO 03:36:12 PM Dec 30, 2021 Center Freq 479.987500 MHz Center Freq: 479.987500 MHz Trig: Free Run Radio Std: None PASS IF Gain: Low #Attenu: 40 dB Avg: 100.00% of 10 Radio Device: BTS 10 dB/div Ref Offset 22 dB Ref 33.0 dBm 10.0 23.0 13.0 3.00 7.00 17.0 27.0 37.0 47.0 57.0 10.0 23.0 13.0 3.00 7.00 17.0 27.0 37.0 47.0 57.0 Center 480 MHz Span 120 kHz Total Power Ref 32.44 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>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>20.16</td><td>(-9.03)</td><td>-900.0</td><td>18.73</td><td>(-10.46)</td><td>1.500 k</td><td>1.500 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.20</td><td>(-2.86)</td><td>-12.10 k</td><td>-42.90</td><td>(-1.38)</td><td>12.40 k</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.58</td><td>(-21.58)</td><td>-14.35 k</td><td>-43.56</td><td>(-23.56)</td><td>13.05 k</td><td>13.05 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td><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><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><td>—</td></tr></tbody></table> File <Temp.png> saved STATUS Frequency Center Freq 479.987500 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	20.16	(-9.03)	-900.0	18.73	(-10.46)	1.500 k	1.500 k	5.625 kHz	12.50 kHz	100.0 Hz	-42.20	(-2.86)	-12.10 k	-42.90	(-1.38)	12.40 k	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.58	(-21.58)	-14.35 k	-43.56	(-23.56)	13.05 k	13.05 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	—
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TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 150.0 AC 1 SENSE PULSE ALIGN AUTO 02:59:27 PM Mar 01, 2022 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Trig: Free Run Radio Std: None PASS IF Gain: Low #Attenu: 40 dB Radio Device: BTS 10 dB/div Ref Offset 22 dB Ref 42.0 dBm 10.0 23.0 13.0 3.00 7.00 17.0 27.0 37.0 47.0 57.0 10.0 23.0 13.0 3.00 7.00 17.0 27.0 37.0 47.0 57.0 Center 400 MHz Span 120 kHz Total Power Ref 37.31 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>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>36.59</td><td>(-1.57)</td><td>0.0</td><td>36.72</td><td>(-1.44)</td><td>50.00</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.16</td><td>(-6.88)</td><td>-12.50 k</td><td>-36.09</td><td>(-5.72)</td><td>12.10 k</td><td>12.10 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.35</td><td>(-16.35)</td><td>-15.70 k</td><td>-35.83</td><td>(-15.83)</td><td>16.00 k</td><td>16.00 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td><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><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><td>—</td></tr></tbody></table> File <MASK.D.state> recalled 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	36.59	(-1.57)	0.0	36.72	(-1.44)	50.00	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-40.16	(-6.88)	-12.50 k	-36.09	(-5.72)	12.10 k	12.10 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.35	(-16.35)	-15.70 k	-35.83	(-15.83)	16.00 k	16.00 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	—
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SEIZE PULSE ALIGN AUTO 02:59:49 PM Mar 01, 2022 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 8.00 -18.0 -28.0 -38.0 -48.0 Mask Limit Reference Limit Absolute Limit Spectrum Center 400 MHz Span 120 kHz Total Power Ref 36.70 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>34.56</td><td>(-3.59)</td><td>0.0</td><td>34.98</td><td>(-3.18)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-33.75</td><td>(-0.46)</td><td>-12.50 k</td><td>-34.47</td><td>(-1.19)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.83</td><td>(-15.83)</td><td>-14.10 k</td><td>-33.67</td><td>(-13.67)</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> MSO File <Temp.png> saved STATUS Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto 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	34.56	(-3.59)	0.0	34.98	(-3.18)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-33.75	(-0.46)	-12.50 k	-34.47	(-1.19)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.83	(-15.83)	-14.10 k	-33.67	(-13.67)	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	—	(—)	—	—	(—)	—
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TX-ANH	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SEIZE PULSE ALIGN AUTO 03:06:27 PM Mar 01, 2022 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 22 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 8.00 -18.0 -28.0 -38.0 -48.0 Mask Limit Reference Limit Absolute Limit Spectrum Center 406 MHz Span 120 kHz Total Power Ref 37.43 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>36.76</td><td>(-1.59)</td><td>0.0</td><td>36.83</td><td>(-1.52)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.90</td><td>(6.82)</td><td>-12.50 k</td><td>-36.07</td><td>(-7.35)</td><td>11.90 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.41</td><td>(-15.41)</td><td>-13.30 k</td><td>-35.50</td><td>(-15.50)</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> MSO File <MASK D.state> recalled STATUS Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto 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	36.76	(-1.59)	0.0	36.83	(-1.52)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-39.90	(6.82)	-12.50 k	-36.07	(-7.35)	11.90 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.41	(-15.41)	-13.30 k	-35.50	(-15.50)	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	—	(—)	—	—	(—)	—
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANH	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SEIZE PULSE ALIGN AUTO 03:06:49 PM Mar 01, 2022 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 22 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 8.00 -18.0 -28.0 -38.0 -48.0 Mask Limit Reference Limit Absolute Limit Spectrum Center 406 MHz Span 120 kHz Total Power Ref 36.82 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>34.74</td><td>(-3.61)</td><td>0.0</td><td>35.10</td><td>(-3.25)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.53</td><td>(-1.81)</td><td>-12.45 k</td><td>-33.74</td><td>(-0.66)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.06</td><td>(-14.06)</td><td>-15.15 k</td><td>-33.70</td><td>(-13.70)</td><td>15.25 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> MSO File <Temp.png> saved STATUS Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto 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	34.74	(-3.61)	0.0	35.10	(-3.25)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-34.53	(-1.81)	-12.45 k	-33.74	(-0.66)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.06	(-14.06)	-15.15 k	-33.70	(-13.70)	15.25 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-ANH	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SE (SE PULSE) ALIGN AUTO 03:08:52 PM Mar 01, 2022 Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Radio Std: None Trig: Free Run #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 22 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 -18.0 -38.0 -48.0 Mask Edge Absolute Limit Spectrum Center 406.1 MHz Span 120 kHz Total Power Ref 37.28 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>36.64</td><td>(-1.69)</td><td>0.0</td><td>36.68</td><td>(-1.65)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-37.80</td><td>(-5.06)</td><td>-12.45 k</td><td>-38.02</td><td>(-4.91)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.35</td><td>(-17.35)</td><td>-17.80 k</td><td>-37.69</td><td>(-17.69)</td><td>17.85 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> MSO File <MASK D.state> recalled STATUS Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Auto 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	36.64	(-1.69)	0.0	36.68	(-1.65)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-37.80	(-5.06)	-12.45 k	-38.02	(-4.91)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.35	(-17.35)	-17.80 k	-37.69	(-17.69)	17.85 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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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANH	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SE (SE PULSE) ALIGN AUTO 03:08:53 PM Mar 01, 2022 Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 22 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 -18.0 -38.0 -48.0 Mask Edge Absolute Limit Spectrum Center 406.1 MHz Span 120 kHz Total Power Ref 37.10 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>34.67</td><td>(-3.66)</td><td>0.0</td><td>34.95</td><td>(-3.38)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.62</td><td>(-3.25)</td><td>-12.40 k</td><td>-36.51</td><td>(-3.41)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.15</td><td>(-14.15)</td><td>-13.30 k</td><td>-34.76</td><td>(-14.76)</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> MSO File <Temp.png> saved STATUS Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Auto 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	34.67	(-3.66)	0.0	34.95	(-3.38)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-35.62	(-3.25)	-12.40 k	-36.51	(-3.41)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.15	(-14.15)	-13.30 k	-34.76	(-14.76)	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	—	(—)	—	—	(—)	—
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TX-ANH	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SE (SE PULSE) ALIGN AUTO 03:10:52 PM Mar 01, 2022 Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Radio Std: None Trig: Free Run #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 23 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 -18.0 -38.0 -48.0 Mask Edge Absolute Limit Spectrum Center 438 MHz Span 120 kHz Total Power Ref 37.96 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>37.30</td><td>(-0.89)</td><td>0.0</td><td>37.36</td><td>(-0.82)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.02</td><td>(-6.76)</td><td>-12.50 k</td><td>-34.97</td><td>(-6.08)</td><td>11.90 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.26</td><td>(-17.26)</td><td>-14.45 k</td><td>-37.53</td><td>(-17.53)</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> MSO File <MASK D.state> recalled STATUS Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto 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	37.30	(-0.89)	0.0	37.36	(-0.82)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-40.02	(-6.76)	-12.50 k	-34.97	(-6.08)	11.90 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.26	(-17.26)	-14.45 k	-37.53	(-17.53)	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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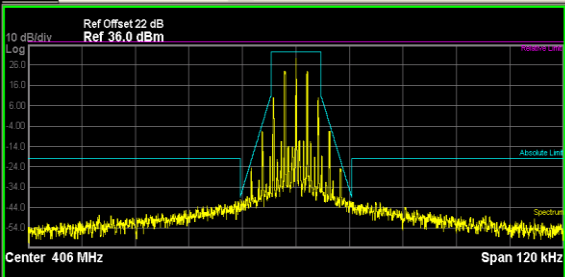
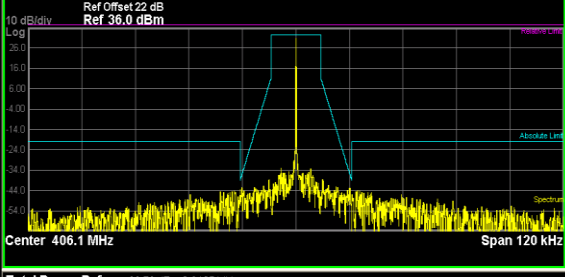
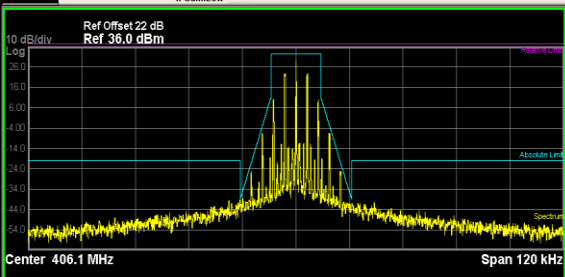
Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANH	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SE (SWE PULSE) ALIGN AUTO 03-11-19 PM Mar 01, 2022 Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 23 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 8.00 -18.0 -28.0 -38.0 -48.0 Mask Edge Absolute Limit Spectrum Center 438 MHz Span 120 kHz Total Power Ref 37.41 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>dBm</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>35.34</td><td>(-2.85)</td><td>0.0</td><td>35.65</td><td>(-2.53)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-33.64</td><td>(-0.75)</td><td>-12.45 k</td><td>-32.90</td><td>(-0.35)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.23</td><td>(-14.23)</td><td>-12.75 k</td><td>-32.13</td><td>(-12.13)</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></table> MSO File <Temp.png> saved STATUS Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.34	(-2.85)	0.0	35.65	(-2.53)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-33.64	(-0.75)	-12.45 k	-32.90	(-0.35)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.23	(-14.23)	-12.75 k	-32.13	(-12.13)	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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SE (SWE PULSE) ALIGN AUTO 03-12-59 PM Mar 01, 2022 Center Freq 479.987500 MHz Center Freq: 479.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 23 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 8.00 -18.0 -28.0 -38.0 -48.0 Mask Edge Absolute Limit Spectrum Center 480 MHz Span 120 kHz Total Power Ref 38.21 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>dBm</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>37.51</td><td>(-0.67)</td><td>0.0</td><td>37.64</td><td>(-0.54)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.06</td><td>(-5.80)</td><td>-12.50 k</td><td>-39.27</td><td>(-7.47)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.96</td><td>(-14.96)</td><td>-15.30 k</td><td>-34.93</td><td>(-14.93)</td><td>15.40 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></table> MSO File <MASK D.state> recalled STATUS Frequency Center Freq 479.987500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	37.51	(-0.67)	0.0	37.64	(-0.54)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-39.06	(-5.80)	-12.50 k	-39.27	(-7.47)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.96	(-14.96)	-15.30 k	-34.93	(-14.93)	15.40 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SE (SWE PULSE) ALIGN AUTO 03-13-30 PM Mar 01, 2022 Center Freq 479.987500 MHz Center Freq: 479.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 23 dB Ref 42.0 dBm 10 dB/div Log 32.0 22.0 12.0 2.00 8.00 -18.0 -28.0 -38.0 -48.0 Mask Edge Absolute Limit Spectrum Center 480 MHz Span 120 kHz Total Power Ref 37.62 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>dBm</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>35.53</td><td>(-2.65)</td><td>0.0</td><td>35.88</td><td>(-2.30)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-33.14</td><td>(-0.25)</td><td>-12.45 k</td><td>-34.83</td><td>(-2.31)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.07</td><td>(-14.07)</td><td>-13.50 k</td><td>-32.71</td><td>(-12.71)</td><td>13.80 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> MSO File <Temp.png> saved STATUS Frequency Center Freq 479.987500 MHz CF Step 12.000 kHz Auto Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.53	(-2.65)	0.0	35.88	(-2.30)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-33.14	(-0.25)	-12.45 k	-34.83	(-2.31)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.07	(-14.07)	-13.50 k	-32.71	(-12.71)	13.80 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 _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SE (PULSE) ALIGN AUTO 03:00:36 PM Mar 01, 2022 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 22 dB Ref 35.0 dBm 10 dB/div Log 25.0 15.0 5.00 5.00 15.0 25.0 35.0 45.0 55.0 Center 400 MHz Span 120 kHz Total Power Ref 29.63 dBm @ 0.125 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>28.97</td><td>(-2.16)</td><td>0.0</td><td>29.63</td><td>(-1.51)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-47.18</td><td>(-6.88)</td><td>-12.50 k</td><td>-43.58</td><td>(-6.91)</td><td>12.00 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-45.61</td><td>(-25.61)</td><td>-13.40 k</td><td>-45.05</td><td>(-25.05)</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> MSO File <MASK D.state> recalled STATUS Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Man Auto 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	28.97	(-2.16)	0.0	29.63	(-1.51)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-47.18	(-6.88)	-12.50 k	-43.58	(-6.91)	12.00 k	12.50 kHz	60.00 kHz	100.0 Hz	-45.61	(-25.61)	-13.40 k	-45.05	(-25.05)	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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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SE (PULSE) ALIGN AUTO 03:00:58 PM Mar 01, 2022 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 22 dB Ref 35.0 dBm 10 dB/div Log 25.0 15.0 5.00 5.00 15.0 25.0 35.0 45.0 55.0 Center 400 MHz Span 120 kHz Total Power Ref 29.65 dBm @ 0.125 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>26.54</td><td>(-4.59)</td><td>0.0</td><td>27.90</td><td>(-3.24)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.05</td><td>(-0.75)</td><td>-12.50 k</td><td>-40.02</td><td>(-3.34)</td><td>7.600 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.74</td><td>(-21.74)</td><td>-13.95 k</td><td>-41.96</td><td>(-21.96)</td><td>15.80 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> MSO File <Temp.png> saved STATUS Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Man Auto 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	26.54	(-4.59)	0.0	27.90	(-3.24)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-41.05	(-0.75)	-12.50 k	-40.02	(-3.34)	7.600 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.74	(-21.74)	-13.95 k	-41.96	(-21.96)	15.80 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 _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SE (PULSE) ALIGN AUTO 03:07:29 PM Mar 01, 2022 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 22 dB Ref 36.0 dBm 10 dB/div Log 25.0 15.0 5.00 5.00 15.0 25.0 35.0 45.0 55.0 Center 406 MHz Span 120 kHz Total Power Ref 30.93 dBm @ 0.125 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>30.41</td><td>(-2.02)</td><td>0.0</td><td>30.94</td><td>(-1.49)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.57</td><td>(-6.01)</td><td>-12.30 k</td><td>-44.35</td><td>(-6.07)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.27</td><td>(-22.27)</td><td>-19.55 k</td><td>-42.14</td><td>(-22.14)</td><td>19.65 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> MSO File <MASK D.state> recalled STATUS Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Man Auto 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	30.41	(-2.02)	0.0	30.94	(-1.49)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-43.57	(-6.01)	-12.30 k	-44.35	(-6.07)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.27	(-22.27)	-19.55 k	-42.14	(-22.14)	19.65 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 150.0 AC SENSE PULSE ALIGN AUTO 03:07:50 PM Mar 01, 2022 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 #Att: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 36.0 dBm  Center 406 MHz Span 120 kHz Total Power Ref 30.96 dBm @ 0.125 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>27.97</td><td>(-4.46)</td><td>0.0</td><td>29.21</td><td>(-3.22)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.14</td><td>(-1.13)</td><td>-12.50 k</td><td>-6.736</td><td>(-3.35)</td><td>7.600 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.98</td><td>(-20.98)</td><td>-13.50 k</td><td>-41.10</td><td>(-21.10)</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> MSO 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 >	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	27.97	(-4.46)	0.0	29.21	(-3.22)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-40.14	(-1.13)	-12.50 k	-6.736	(-3.35)	7.600 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.98	(-20.98)	-13.50 k	-41.10	(-21.10)	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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak >	Upper ΔLim(dB)	Freq (Hz)																																																										
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TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 150.0 AC SENSE PULSE ALIGN AUTO 03:09:46 PM Mar 01, 2022 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 #Att: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 36.0 dBm  Center 406.1 MHz Span 120 kHz Total Power Ref 30.78 dBm @ 0.125 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>30.24</td><td>(-2.07)</td><td>0.0</td><td>30.78</td><td>(-1.53)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.94</td><td>(-4.82)</td><td>-12.50 k</td><td>-42.96</td><td>(-6.38)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-44.31</td><td>(-24.31)</td><td>-13.70 k</td><td>-43.91</td><td>(-23.91)</td><td>13.80 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> MSO 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	30.24	(-2.07)	0.0	30.78	(-1.53)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-43.94	(-4.82)	-12.50 k	-42.96	(-6.38)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-44.31	(-24.31)	-13.70 k	-43.91	(-23.91)	13.80 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 150.0 AC SENSE PULSE ALIGN AUTO 03:10:07 PM Mar 01, 2022 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 #Att: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 36.0 dBm  Center 406.1 MHz Span 120 kHz Total Power Ref 30.80 dBm @ 0.125 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>27.94</td><td>(-4.37)</td><td>0.0</td><td>29.06</td><td>(-3.25)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.45</td><td>(-0.68)</td><td>-12.45 k</td><td>-6.926</td><td>(-3.42)</td><td>7.600 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.22</td><td>(-19.22)</td><td>-12.55 k</td><td>-40.30</td><td>(-20.30)</td><td>17.60 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> MSO 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	27.94	(-4.37)	0.0	29.06	(-3.25)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-39.45	(-0.68)	-12.45 k	-6.926	(-3.42)	7.600 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.22	(-19.22)	-12.55 k	-40.30	(-20.30)	17.60 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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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SE (SE PULSE) ALIGN AUTO 03-11-55 PM Mar 01, 2022 Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS PASS IF Gain: Low Ref Offset 23 dB Ref 36.0 dBm Center 438 MHz Span 120 kHz Total Power Ref 30.74 dBm @ 0.125 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>30.06</td><td>(-1.49)</td><td>0.0</td><td>30.74</td><td>(-0.82)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.83</td><td>(-4.31)</td><td>-12.45 k</td><td>-46.18</td><td>(-6.30)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.02</td><td>(-23.02)</td><td>-13.80 k</td><td>-41.42</td><td>(-21.42)</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> MSO File <MASK D.state> recalled STATUS Frequency Center Freq 438.012500 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	30.06	(-1.49)	0.0	30.74	(-0.82)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-43.83	(-4.31)	-12.45 k	-46.18	(-6.30)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.02	(-23.02)	-13.80 k	-41.42	(-21.42)	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-ANL	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SE (SE PULSE) ALIGN AUTO 03-12-17 PM Mar 01, 2022 Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Avg: 100.00% of 10 Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS PASS IF Gain: Low Ref Offset 23 dB Ref 36.0 dBm Center 438 MHz Span 120 kHz Total Power Ref 30.80 dBm @ 0.125 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>27.60</td><td>(-3.95)</td><td>0.0</td><td>29.03</td><td>(-2.52)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.23</td><td>(-0.08)</td><td>-12.40 k</td><td>-41.13</td><td>(-1.61)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.52</td><td>(-21.52)</td><td>-14.45 k</td><td>-40.02</td><td>(-20.02)</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> MSO File <Temp.png> saved STATUS Frequency Center Freq 438.012500 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	27.60	(-3.95)	0.0	29.03	(-2.52)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-39.23	(-0.08)	-12.40 k	-41.13	(-1.61)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.52	(-21.52)	-14.45 k	-40.02	(-20.02)	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	—	(—)	—	—	(—)	—
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TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SE (SE PULSE) ALIGN AUTO 03-14-05 PM Mar 01, 2022 Center Freq 479.987500 MHz Center Freq: 479.987500 MHz Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS PASS IF Gain: Low Ref Offset 23 dB Ref 35.0 dBm Center 480 MHz Span 120 kHz Total Power Ref 30.30 dBm @ 0.125 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>29.35</td><td>(-1.53)</td><td>0.0</td><td>30.34</td><td>(-0.54)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.87</td><td>(-3.40)</td><td>-12.35 k</td><td>-44.07</td><td>(-3.87)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.28</td><td>(-22.28)</td><td>-15.30 k</td><td>-41.93</td><td>(-21.93)</td><td>15.45 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> MSO File <MASK D.state> recalled STATUS Frequency Center Freq 479.987500 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	29.35	(-1.53)	0.0	30.34	(-0.54)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-42.87	(-3.40)	-12.35 k	-44.07	(-3.87)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.28	(-22.28)	-15.30 k	-41.93	(-21.93)	15.45 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RLRFISOQAC SENSE PULSE ALIGN AUTO 03-14-27 PM Mar 01, 2022 Center Freq 479.987500 MHz Center Freq: 479.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None PASS IF Gain: Low #Att: 40 dB Radio Device: BTS Ref Offset 23 dB Ref 35.0 dBm 10 dB/div Log 25.0 15.0 5.0 -5.0 -15.0 -25.0 -35.0 -45.0 -55.0 Mask Reference Line Algebraic Line Spectrum Center 480 MHz Span 120 kHz Total Power Ref30.40 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>Peak Freq (Hz)</th><th>dBm</th><th>Upper ΔLim(dB)</th><th>Upper Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>26.83</td><td>(-4.05)</td><td>0.0</td><td>26.61</td><td>(-2.26)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.83</td><td>(-1.63)</td><td>-12.45 k</td><td>-40.63</td><td>(-1.52)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.26</td><td>(-22.26)</td><td>-15.95 k</td><td>-39.95</td><td>(-19.95)</td><td>13.20 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> Frequency Center Freq479.987500 MHz CF Step12.000 kHz Man Auto Freq Offset0 Hz MSGFile <Temp.png> saved STATUS	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	dBm	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	26.83	(-4.05)	0.0	26.61	(-2.26)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-41.83	(-1.63)	-12.45 k	-40.63	(-1.52)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.26	(-22.26)	-15.95 k	-39.95	(-19.95)	13.20 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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