

Project No.	SHT2112110001EW		
Test sample No.	YPHT21121100022	Model No.	EM8100 U1
Start test date	2022/1/19	Finish date	2022/1/19
Temperature	22.8℃	Humidity	44%
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	1/19	PASS
B	Occupied Bandwidth	1/19	PASS
C	Emission Mask	1/19	PASS
D	Modulation Limit	1/19	PASS
E	Audio Frequency Response	1/19	PASS
F	Frequency Stability Test & Temperature	1/19	PASS
G	Frequency Stability Test & Voltage	1/19	PASS
H	Transmitter Frequency Behavior	1/19	PASS
I	Spurious Emission On Antenna Port	1/19	PASS

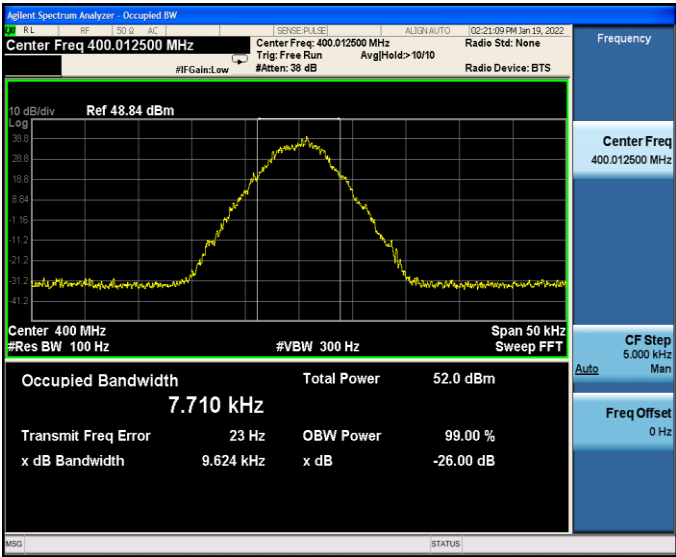
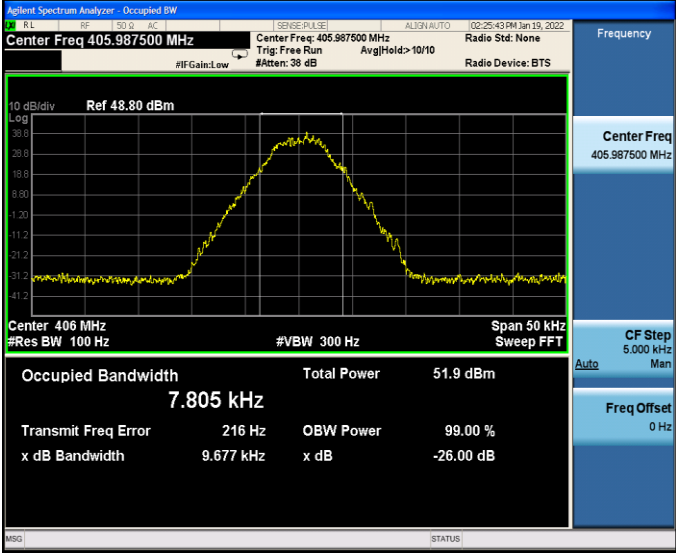
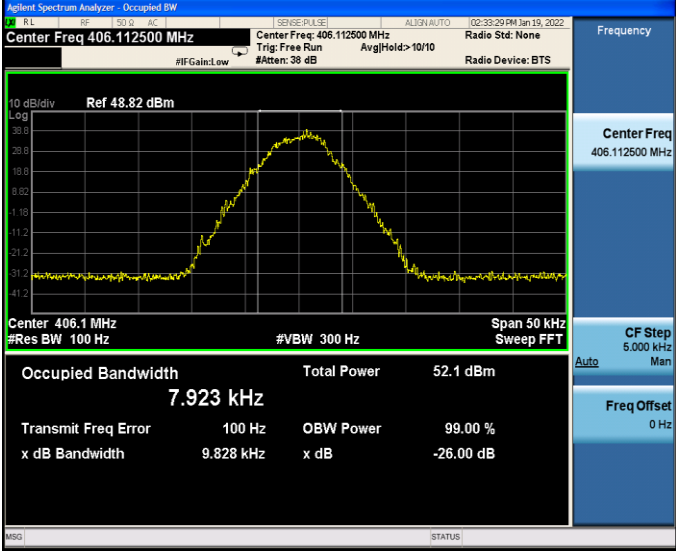
Appendix A:Maximum Transmitter Power

Operation Mode	Modulation Type	Test Channel	Measured Power(dBm)	Measured Power(W)	Rated Power(W)	Percentage(%)	Limit (%)	Result
TX-DNH	4FSK	CH _L	46.4	43.62	45.00	-3.1	±20	PASS
TX-DNH	4FSK	CH _{M1}	46.4	43.59	45.00	-3.1	±20	PASS
TX-DNH	4FSK	CH _{M2}	46.5	44.16	45.00	-1.9	±20	PASS
TX-DNH	4FSK	CH _{M3}	46.7	46.62	45.00	3.6	±20	PASS
TX-DNH	4FSK	CH _H	46.6	45.84	45.00	1.9	±20	PASS
TX-DNL	4FSK	CH _L	37.0	5.04	5.00	0.8	±20	PASS
TX-DNL	4FSK	CH _{M1}	37.1	5.12	5.00	2.4	±20	PASS
TX-DNL	4FSK	CH _{M2}	37.1	5.14	5.00	2.8	±20	PASS
TX-DNL	4FSK	CH _{M3}	37.3	5.32	5.00	6.4	±20	PASS
TX-DNL	4FSK	CH _H	37.2	5.25	5.00	5.0	±20	PASS
TX-ANH	FM	CH _L	46.4	44.06	45.00	-2.1	±20	PASS
TX-ANH	FM	CH _{M1}	46.5	44.56	45.00	-1.0	±20	PASS
TX-ANH	FM	CH _{M2}	46.5	44.90	45.00	-0.2	±20	PASS
TX-ANH	FM	CH _{M3}	46.7	47.30	45.00	5.1	±20	PASS
TX-ANH	FM	CH _H	46.7	46.96	45.00	4.4	±20	PASS
TX-ANL	FM	CH _L	37.1	5.09	5.00	1.8	±20	PASS
TX-ANL	FM	CH _{M1}	37.2	5.21	5.00	4.2	±20	PASS
TX-ANL	FM	CH _{M2}	37.2	5.26	5.00	5.2	±20	PASS
TX-ANL	FM	CH _{M3}	37.4	5.49	5.00	9.8	±20	PASS
TX-ANL	FM	CH _H	37.1	5.13	5.00	2.6	±20	PASS

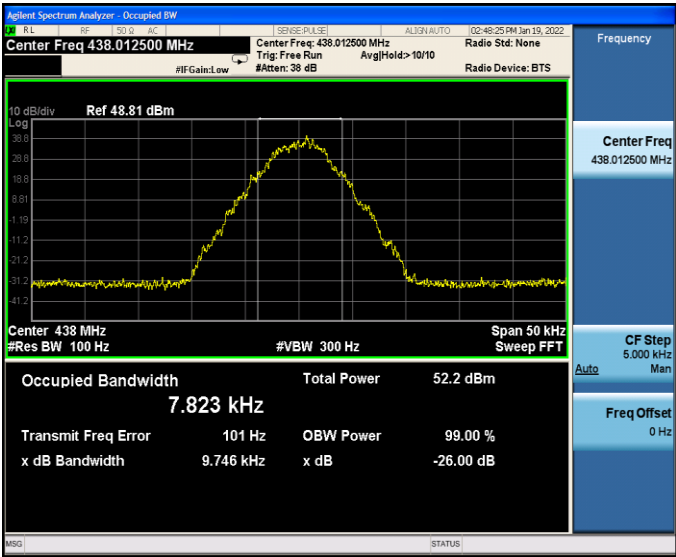
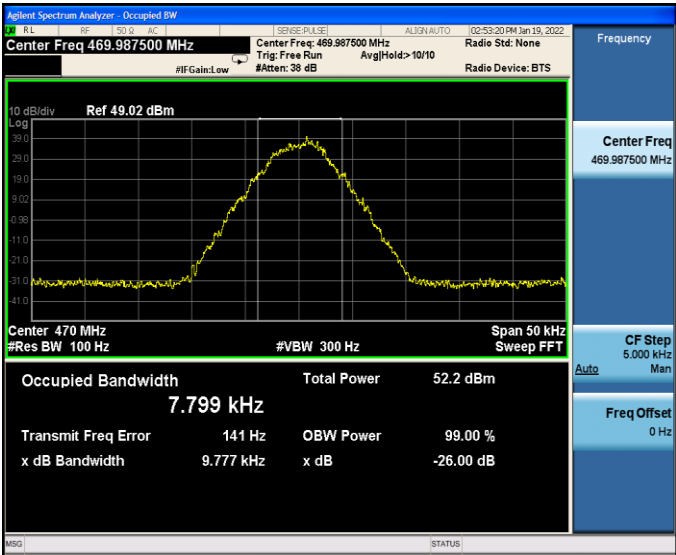
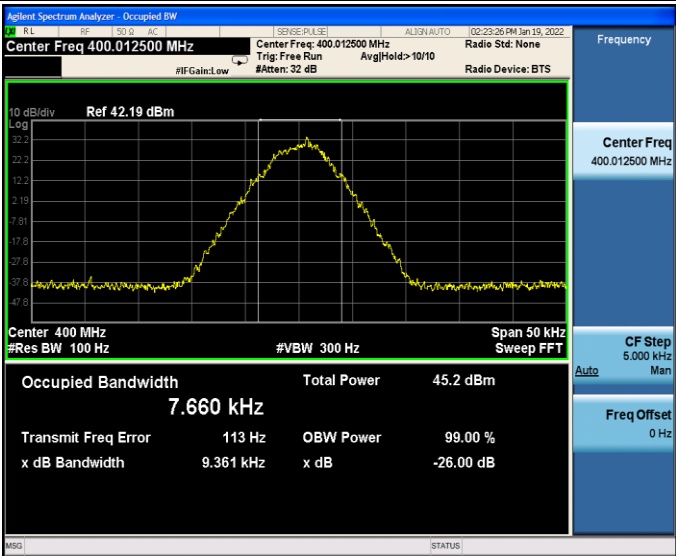
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	Occupied Bandwidth		99% Limit(kHz)	Result
			99%(kHz)	26dB(kHz)		
TX-DNH	4FSK	CH _L	7.710	9.624	≤11.25	PASS
TX-DNH	4FSK	CH _{M1}	7.805	9.677	≤11.25	PASS
TX-DNH	4FSK	CH _{M2}	7.923	9.828	≤11.25	PASS
TX-DNH	4FSK	CH _{M3}	7.823	9.746	≤11.25	PASS
TX-DNH	4FSK	CH _H	7.799	9.777	≤11.25	PASS
TX-DNL	4FSK	CH _L	7.660	9.361	≤11.25	PASS
TX-DNL	4FSK	CH _{M1}	7.803	9.684	≤11.25	PASS
TX-DNL	4FSK	CH _{M2}	7.706	9.458	≤11.25	PASS
TX-DNL	4FSK	CH _{M3}	7.912	9.780	≤11.25	PASS
TX-DNL	4FSK	CH _H	7.855	9.588	≤11.25	PASS
TX-ANH	FM	CH _L	9.989	10.170	≤11.25	PASS
TX-ANH	FM	CH _{M1}	9.990	10.170	≤11.25	PASS
TX-ANH	FM	CH _{M2}	9.990	10.170	≤11.25	PASS
TX-ANH	FM	CH _{M3}	9.992	10.170	≤11.25	PASS
TX-ANH	FM	CH _H	9.994	10.170	≤11.25	PASS
TX-ANL	FM	CH _L	9.989	10.170	≤11.25	PASS
TX-ANL	FM	CH _{M1}	9.990	10.170	≤11.25	PASS
TX-ANL	FM	CH _{M2}	9.990	10.170	≤11.25	PASS
TX-ANL	FM	CH _{M3}	9.991	10.170	≤11.25	PASS
TX-ANL	FM	CH _H	9.994	10.170	≤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: 48.84 dBm Occupied Bandwidth: 7.710 kHz Total Power: 52.0 dBm Transmit Freq Error: 23 Hz OBW Power: 99.00 % x dB Bandwidth: 9.624 kHz x dB: -26.00 dB
TX-DNH	4FSK	CH _{M1}	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 405.987500 MHz Ref: 48.80 dBm Occupied Bandwidth: 7.805 kHz Total Power: 51.9 dBm Transmit Freq Error: 216 Hz OBW Power: 99.00 % x dB Bandwidth: 9.677 kHz x dB: -26.00 dB
TX-DNH	4FSK	CH _{M2}	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 406.112500 MHz Ref: 48.82 dBm Occupied Bandwidth: 7.923 kHz Total Power: 52.1 dBm Transmit Freq Error: 100 Hz OBW Power: 99.00 % x dB Bandwidth: 9.828 kHz x dB: -26.00 dB

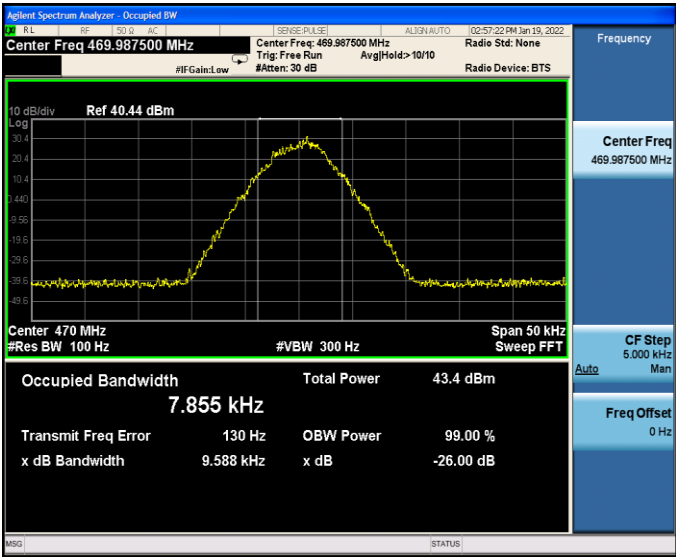
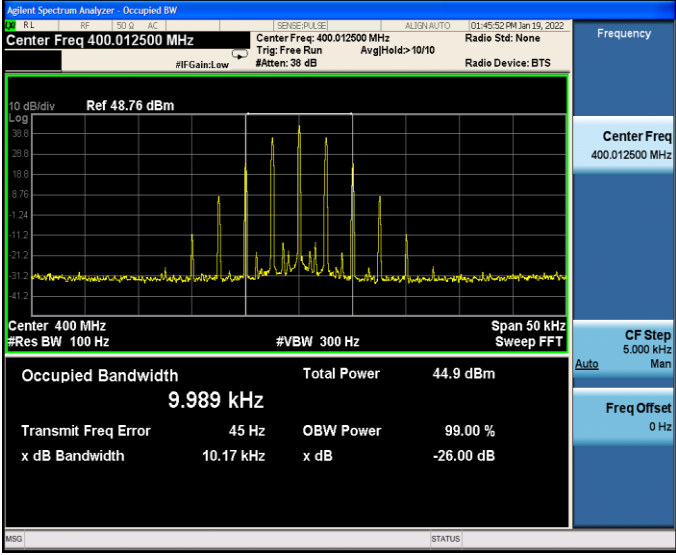
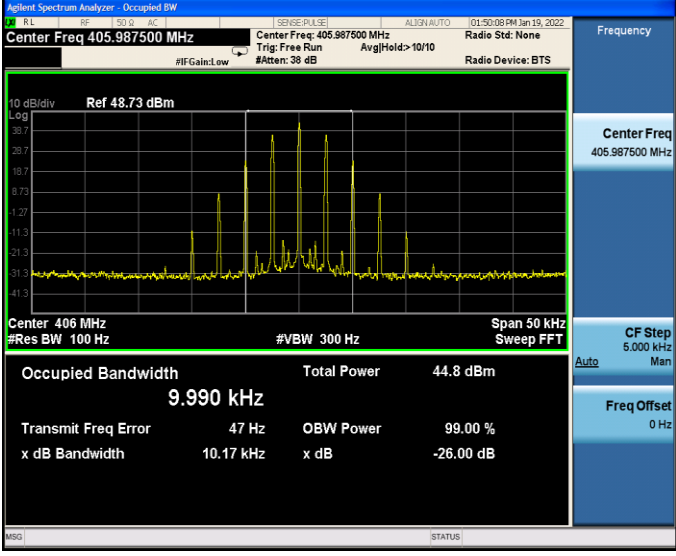
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M3}	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 438.012500 MHz Ref: 48.81 dBm Occupied Bandwidth: 7.823 kHz Total Power: 52.2 dBm Transmit Freq Error: 101 Hz OBW Power: 99.00 % x dB Bandwidth: 9.746 kHz x dB: -26.00 dB
TX-DNH	4FSK	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 469.987500 MHz Ref: 49.02 dBm Occupied Bandwidth: 7.799 kHz Total Power: 52.2 dBm Transmit Freq Error: 141 Hz OBW Power: 99.00 % x dB Bandwidth: 9.777 kHz x dB: -26.00 dB
TX-DNL	4FSK	CH _L	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 400.012500 MHz Ref: 42.19 dBm Occupied Bandwidth: 7.660 kHz Total Power: 45.2 dBm Transmit Freq Error: 113 Hz OBW Power: 99.00 % x dB Bandwidth: 9.361 kHz x dB: -26.00 dB

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Occupied BW Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS Ref 42.19 dBm Center 406 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.803 kHz Total Power 45.3 dBm Transmit Freq Error 110 Hz OBW Power 99.00 % x dB Bandwidth 9.684 kHz x dB -26.00 dB Frequency Center Freq 405.987500 MHz CF Step 5.000 kHz Man Auto Freq Offset 0 Hz MSG STATUS
TX-DNL	4FSK	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 42.23 dBm Center 406.1 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.706 kHz Total Power 45.5 dBm Transmit Freq Error 131 Hz OBW Power 99.00 % x dB Bandwidth 9.458 kHz x dB -26.00 dB Frequency Center Freq 406.112500 MHz CF Step 5.000 kHz Man Auto Freq Offset 0 Hz MSG STATUS
TX-DNL	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 42.18 dBm Center 438 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.912 kHz Total Power 45.3 dBm Transmit Freq Error 148 Hz OBW Power 99.00 % x dB Bandwidth 9.780 kHz x dB -26.00 dB Frequency Center Freq 438.012500 MHz CF Step 5.000 kHz Man Auto Freq Offset 0 Hz MSG STATUS

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS Ref 40.44 dBm Center 470 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.855 kHz Total Power 43.4 dBm Transmit Freq Error 130 Hz OBW Power 99.00 % x dB Bandwidth 9.588 kHz x dB -26.00 dB Frequency 469.987500 MHz CF Step 5.000 kHz Freq Offset 0 Hz
TX-ANH	FM	CH _L	 Agilent Spectrum Analyzer - Occupied BW Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS Ref 48.76 dBm Center 400 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.989 kHz Total Power 44.9 dBm Transmit Freq Error 45 Hz OBW Power 99.00 % x dB Bandwidth 10.17 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 48.73 dBm Center 406 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.990 kHz Total Power 44.8 dBm Transmit Freq Error 47 Hz OBW Power 99.00 % x dB Bandwidth 10.17 kHz x dB -26.00 dB Frequency 405.987500 MHz CF Step 5.000 kHz Freq Offset 0 Hz

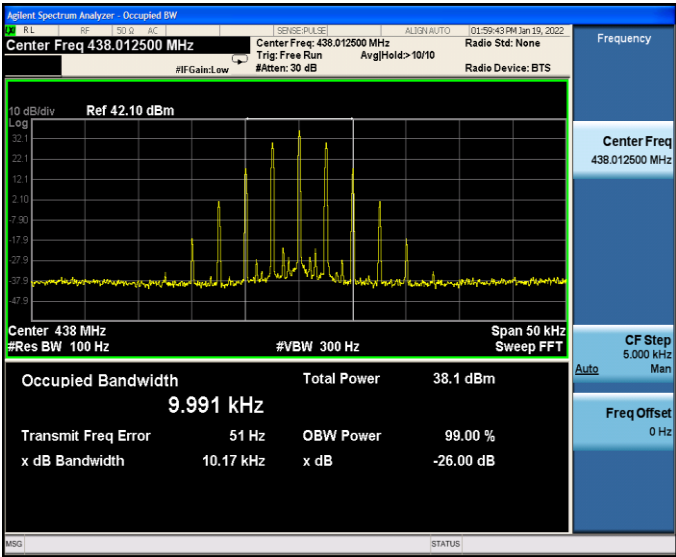
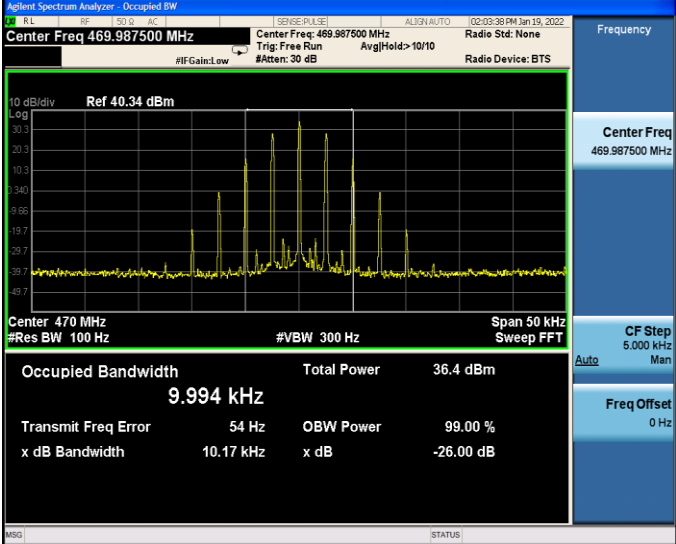
Appendix B:Occupied Bandwidth

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 48.78 dBm Center 406.1 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.990 kHz Total Power 44.8 dBm Transmit Freq Error 49 Hz OBW Power 99.00 % x dB Bandwidth 10.17 kHz x dB -26.00 dB
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 48.76 dBm Center 438 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.992 kHz Total Power 44.8 dBm Transmit Freq Error 51 Hz OBW Power 99.00 % x dB Bandwidth 10.17 kHz x dB -26.00 dB
TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Occupied BW Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS Ref 48.98 dBm Center 470 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.994 kHz Total Power 45.1 dBm Transmit Freq Error 55 Hz OBW Power 99.00 % x dB Bandwidth 10.17 kHz x dB -26.00 dB

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Occupied BW Center Freq: 400.012500 MHz Center Freq: 400.012500 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS Ref 42.08 dBm Center 400 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.989 kHz Total Power 38.2 dBm Transmit Freq Error 43 Hz OBW Power 99.00 % x dB Bandwidth 10.17 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 42.11 dBm Center 406 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.990 kHz Total Power 38.2 dBm Transmit Freq Error 48 Hz OBW Power 99.00 % x dB Bandwidth 10.17 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 42.15 dBm Center 406.1 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.990 kHz Total Power 38.2 dBm Transmit Freq Error 51 Hz OBW Power 99.00 % x dB Bandwidth 10.17 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 42.10 dBm Center 438 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.991 kHz Total Power 38.1 dBm Transmit Freq Error 51 Hz OBW Power 99.00 % x dB Bandwidth 10.17 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 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS Ref 40.34 dBm Center 470 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.994 kHz Total Power 36.4 dBm Transmit Freq Error 54 Hz OBW Power 99.00 % x dB Bandwidth 10.17 kHz x dB -26.00 dB Frequency 469.987500 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 RL RF 150.0 AC 100.0 1

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 RF 150.0 AC SENSE PULSE ALIGN AUTO 02:27:52 PM Jan 19, 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 50.0 dBm Center 406 MHz Span 120 kHz Total Power Ref 48.57 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>33.42</td><td>(-12.84)</td><td>-50.00</td><td>36.40</td><td>(-9.86)</td><td>300.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-26.53</td><td>(-4.63)</td><td>-12.05 k</td><td>-29.89</td><td>(-4.72)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-25.68</td><td>(-5.88)</td><td>-16.10 k</td><td>-27.23</td><td>(-7.23)</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 405.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	33.42	(-12.84)	-50.00	36.40	(-9.86)	300.0	5.625 kHz	12.50 kHz	100.0 Hz	-26.53	(-4.63)	-12.05 k	-29.89	(-4.72)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-25.68	(-5.88)	-16.10 k	-27.23	(-7.23)	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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TX-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 150.0 AC SENSE PULSE ALIGN AUTO 02:34:11 PM Jan 19, 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 50.0 dBm Center 406.1 MHz Span 120 kHz Total Power Ref 44.87 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>44.27</td><td>(-2.04)</td><td>0.0</td><td>44.87</td><td>(-1.44)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-31.50</td><td>(-9.64)</td><td>-12.05 k</td><td>-31.45</td><td>(-8.86)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-28.77</td><td>(-8.77)</td><td>-12.70 k</td><td>-28.79</td><td>(-8.79)</td><td>12.80 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 dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	44.27	(-2.04)	0.0	44.87	(-1.44)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-31.50	(-9.64)	-12.05 k	-31.45	(-8.86)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-28.77	(-8.77)	-12.70 k	-28.79	(-8.79)	12.80 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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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 _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 150.0 AC SENSE PULSE ALIGN AUTO 02:34:50 PM Jan 19, 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 50.0 dBm Center 406.1 MHz Span 120 kHz Total Power Ref 48.27 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>32.32</td><td>(-13.99)</td><td>-150.0</td><td>35.99</td><td>(-10.31)</td><td>1.950 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-28.06</td><td>(-2.93)</td><td>-12.50 k</td><td>-27.93</td><td>(-2.80)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-28.55</td><td>(-8.55)</td><td>-15.50 k</td><td>-26.29</td><td>(-6.29)</td><td>14.85 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 <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 dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	32.32	(-13.99)	-150.0	35.99	(-10.31)	1.950 k	5.625 kHz	12.50 kHz	100.0 Hz	-28.06	(-2.93)	-12.50 k	-27.93	(-2.80)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-28.55	(-8.55)	-15.50 k	-26.29	(-6.29)	14.85 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										

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 50 dB AC SE (GE PULSE) ALIGN AUTO 02:49:07 PM Jan 19, 2022 Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 23 dB Ref 50.0 dBm 10 dB/div Log Center 438 MHz Span 120 kHz Total Power Ref 45.54 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>44.73</td><td>(-1.54)</td><td>0.0</td><td>45.55</td><td>(-0.72)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-26.63</td><td>(-6.18)</td><td>-11.85 k</td><td>-26.67</td><td>(-5.50)</td><td>11.95 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-25.29</td><td>(-5.29)</td><td>-13.30 k</td><td>-25.17</td><td>(-5.17)</td><td>13.40 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></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	44.73	(-1.54)	0.0	45.55	(-0.72)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-26.63	(-6.18)	-11.85 k	-26.67	(-5.50)	11.95 k	12.50 kHz	60.00 kHz	100.0 Hz	-25.29	(-5.29)	-13.30 k	-25.17	(-5.17)	13.40 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	44.73	(-1.54)	0.0	45.55	(-0.72)	50.00																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-26.63	(-6.18)	-11.85 k	-26.67	(-5.50)	11.95 k																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNH	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SE (GE PULSE) ALIGN AUTO 02:50:02 PM Jan 19, 2022 Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Radio Std: None PASS IF Gain: Low Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 23 dB Ref 50.0 dBm 10 dB/div Log Center 438 MHz Span 120 kHz Total Power Ref 48.57 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>36.95</td><td>(-9.32)</td><td>0.0</td><td>39.73</td><td>(-6.54)</td><td>650.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-28.32</td><td>(-4.97)</td><td>-12.25 k</td><td>-26.38</td><td>(-1.21)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-25.76</td><td>(-5.76)</td><td>-14.00 k</td><td>-26.10</td><td>(-6.10)</td><td>12.80 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 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	36.95	(-9.32)	0.0	39.73	(-6.54)	650.0	5.625 kHz	12.50 kHz	100.0 Hz	-28.32	(-4.97)	-12.25 k	-26.38	(-1.21)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-25.76	(-5.76)	-14.00 k	-26.10	(-6.10)	12.80 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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5.625 kHz	12.50 kHz	100.0 Hz	-28.32	(-4.97)	-12.25 k	-26.38	(-1.21)	12.50 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-25.76	(-5.76)	-14.00 k	-26.10	(-6.10)	12.80 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-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SE (GE PULSE) ALIGN AUTO 02:53:58 PM Jan 19, 2022 Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 23 dB Ref 51.0 dBm 10 dB/div Log Center 470 MHz Span 120 kHz Total Power Ref 45.99 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>44.42</td><td>(-2.08)</td><td>0.0</td><td>45.99</td><td>(-0.51)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-30.77</td><td>(-7.29)</td><td>-12.30 k</td><td>-30.89</td><td>(-6.68)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-26.16</td><td>(-6.16)</td><td>-14.00 k</td><td>-26.15</td><td>(-6.15)</td><td>14.10 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></table> MSO File <MASK D.state> recalled STATUS Frequency Center Freq 469.987500 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	44.42	(-2.08)	0.0	45.99	(-0.51)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-30.77	(-7.29)	-12.30 k	-30.89	(-6.68)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-26.16	(-6.16)	-14.00 k	-26.15	(-6.15)	14.10 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	—	(—)	—	—	(—)	—
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	44.42	(-2.08)	0.0	45.99	(-0.51)	50.00																																																										
5.625 kHz	12.50 kHz	100.0 Hz	-30.77	(-7.29)	-12.30 k	-30.89	(-6.68)	12.40 k																																																										
12.50 kHz	60.00 kHz	100.0 Hz	-26.16	(-6.16)	-14.00 k	-26.15	(-6.15)	14.10 k																																																										
4.000 MHz	8.000 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-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 150.0 AC IF SENSE PULSE ALIGN AUTO 02:54:36 PM Jan 19, 2022 Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Attenu: 40 dB Radio Device: BTS Ref Offset 23 dB Ref 51.0 dBm 10 dB/div Log 34.0 30.0 26.0 22.0 18.0 14.0 10.0 6.0 2.0 -2.0 -6.0 -10.0 -14.0 -18.0 -22.0 -26.0 -30.0 -34.0 -38.0 -42.0 -46.0 -50.0 469.987500 MHz 4

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 50.0 AC SE (SE PULSE) ALIGN AUTO 02:29:46 PM Jan 19, 2022 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None IF Gain: Low #Atten: 40 dB Radio Device: BTS PASS Ref Offset 22 dB Ref 44.0 dBm 10 dB/div Log 34.0 24.0 14.0 4.00 6.00 -16.0 -26.0 -36.0 -46.0 Center 406 MHz Span 120 kHz Total Power Ref 38.24 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>37.48</td><td>(-2.17)</td><td>0.0</td><td>38.24</td><td>(-1.41)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.91</td><td>(-4.12)</td><td>-12.50 k</td><td>-34.85</td><td>(-8.15)</td><td>11.80 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-32.12</td><td>(-12.12)</td><td>-14.95 k</td><td>-32.25</td><td>(-12.25)</td><td>15.05 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> MSO File <MASK D.state> recalled STATUS Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak → dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	37.48	(-2.17)	0.0	38.24	(-1.41)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-35.91	(-4.12)	-12.50 k	-34.85	(-8.15)	11.80 k	12.50 kHz	60.00 kHz	100.0 Hz	-32.12	(-12.12)	-14.95 k	-32.25	(-12.25)	15.05 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak → dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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TX-DNL	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SE (SE PULSE) ALIGN AUTO 02:30:26 PM Jan 19, 2022 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None IF Gain: Low #Atten: 40 dB Radio Device: BTS PASS Ref Offset 22 dB Ref 44.0 dBm 10 dB/div Log 34.0 24.0 14.0 4.00 6.00 -16.0 -26.0 -36.0 -46.0 Center 406 MHz Span 120 kHz Total Power Ref 41.21 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>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>28.09</td><td>(-11.56)</td><td>-550.0</td><td>30.23</td><td>(-9.41)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.41</td><td>(-2.62)</td><td>-12.50 k</td><td>-34.91</td><td>(-4.94)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-32.91</td><td>(-12.91)</td><td>-14.50 k</td><td>-31.33</td><td>(-11.33)</td><td>14.10 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></table> MSO File <Temp.png> saved STATUS Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak → dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	28.09	(-11.56)	-550.0	30.23	(-9.41)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.41	(-2.62)	-12.50 k	-34.91	(-4.94)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-32.91	(-12.91)	-14.50 k	-31.33	(-11.33)	14.10 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	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak → dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNL	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SE (SE PULSE) ALIGN AUTO 02:45:08 PM Jan 19, 2022 Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Radio Std: None IF Gain: Low #Atten: 40 dB Radio Device: BTS PASS Ref Offset 22 dB Ref 44.0 dBm 10 dB/div Log 34.0 24.0 14.0 4.00 6.00 -16.0 -26.0 -36.0 -46.0 Center 406.1 MHz Span 120 kHz Total Power Ref 38.24 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>37.34</td><td>(-2.35)</td><td>0.0</td><td>38.28</td><td>(-1.40)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-33.66</td><td>(-2.63)</td><td>-12.40 k</td><td>-33.73</td><td>(-1.98)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.58</td><td>(-16.58)</td><td>-13.60 k</td><td>-34.71</td><td>(-14.71)</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></table> MSO File <MASK D.state> recalled STATUS Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak → dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	37.34	(-2.35)	0.0	38.28	(-1.40)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-33.66	(-2.63)	-12.40 k	-33.73	(-1.98)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.58	(-16.58)	-13.60 k	-34.71	(-14.71)	12.50 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak → dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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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 SENSE PULSE ALIGN AUTO 02:46:42 PM Jan 19, 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 #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 44.0 dBm 10 dB/div Log 34.0 24.0 14.0 4.00 -6.00 -16.0 -26.0 -36.0 -46.0 Center 406.1 MHz Span 120 kHz Total Power Ref 42.19 dBm/0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak ></th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>29.92</td><td>(-9.77)</td><td>-850.0</td><td>31.38</td><td>(-8.31)</td><td>1.000 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.29</td><td>(-3.54)</td><td>-12.50 k</td><td>-34.66</td><td>(-5.09)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.84</td><td>(-13.84)</td><td>-14.00 k</td><td>-33.02</td><td>(-13.02)</td><td>12.90 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> 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 >	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	29.92	(-9.77)	-850.0	31.38	(-8.31)	1.000 k	5.625 kHz	12.50 kHz	100.0 Hz	-35.29	(-3.54)	-12.50 k	-34.66	(-5.09)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.84	(-13.84)	-14.00 k	-33.02	(-13.02)	12.90 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak >	Upper ΔLim(dB)	Freq (Hz)																																																										
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TX-DNL	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL SENSE PULSE ALIGN AUTO 02:51:41 PM Jan 19, 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 44.0 dBm 10 dB/div Log 34.0 24.0 14.0 4.00 -6.00 -16.0 -26.0 -36.0 -46.0 Center 438 MHz Span 120 kHz Total Power Ref 38.88 dBm/0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak ></th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>37.90</td><td>(-1.72)</td><td>0.0</td><td>38.89</td><td>(-0.72)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.73</td><td>(-3.64)</td><td>-12.40 k</td><td>-34.68</td><td>(-2.86)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.63</td><td>(-14.63)</td><td>-12.90 k</td><td>-34.46</td><td>(-14.46)</td><td>13.00 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> 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 >	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	37.90	(-1.72)	0.0	38.89	(-0.72)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-34.73	(-3.64)	-12.40 k	-34.68	(-2.86)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.63	(-14.63)	-12.90 k	-34.46	(-14.46)	13.00 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak >	Upper ΔLim(dB)	Freq (Hz)																																																										
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TX-DNL	4FSK	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL SENSE PULSE ALIGN AUTO 02:52:21 PM Jan 19, 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 44.0 dBm 10 dB/div Log 34.0 24.0 14.0 4.00 -6.00 -16.0 -26.0 -36.0 -46.0 Center 438 MHz Span 120 kHz Total Power Ref 41.68 dBm/0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak ></th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>28.21</td><td>(-11.41)</td><td>-750.0</td><td>30.83</td><td>(-8.79)</td><td>700.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.52</td><td>(-3.43)</td><td>-12.40 k</td><td>-34.31</td><td>(-2.49)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-32.41</td><td>(-12.41)</td><td>-12.95 k</td><td>-32.42</td><td>(-12.42)</td><td>18.90 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 <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 >	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	28.21	(-11.41)	-750.0	30.83	(-8.79)	700.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.52	(-3.43)	-12.40 k	-34.31	(-2.49)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-32.41	(-12.41)	-12.95 k	-32.42	(-12.42)	18.90 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run #Atten: 40 dB IF Gain: Low Radio Device: BTS Ref Offset 23 dB Ref 42.0 dBm Center 470 MHz Span 120 kHz Total Power Ref 37.38 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 ΔLim(dB)</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>35.49</td><td>(-2.39)</td><td>0.0</td><td>37.37</td><td>(-0.50)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.15</td><td>(-1.68)</td><td>-12.35 k</td><td>-34.25</td><td>(-0.68)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.44</td><td>(-15.44)</td><td>-14.55 k</td><td>-35.33</td><td>(-15.33)</td><td>14.70 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	35.49	(-2.39)	0.0	37.37	(-0.50)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-34.15	(-1.68)	-12.35 k	-34.25	(-0.68)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.44	(-15.44)	-14.55 k	-35.33	(-15.33)	14.70 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																										
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TX-DNL	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB IF Gain: Low Radio Device: BTS Ref Offset 23 dB Ref 42.0 dBm Center 470 MHz Span 120 kHz Total Power Ref 40.86 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 ΔLim(dB)</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>27.31</td><td>(-10.56)</td><td>-950.0</td><td>28.77</td><td>(-9.11)</td><td>250.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.27</td><td>(-3.80)</td><td>-12.35 k</td><td>-34.44</td><td>(-2.70)</td><td>12.25 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.74</td><td>(-14.74)</td><td>-14.25 k</td><td>-33.85</td><td>(-13.85)</td><td>23.65 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> Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	27.31	(-10.56)	-950.0	28.77	(-9.11)	250.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.27	(-3.80)	-12.35 k	-34.44	(-2.70)	12.25 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.74	(-14.74)	-14.25 k	-33.85	(-13.85)	23.65 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Trig: Free Run #Atten: 40 dB IF Gain: Low Radio Device: BTS Ref Offset 22 dB Ref 50.0 dBm Center 400 MHz Span 120 kHz Total Power Ref 45.49 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 ΔLim(dB)</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>44.70</td><td>(-1.55)</td><td>0.0</td><td>44.90</td><td>(-1.35)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-31.43</td><td>(-6.62)</td><td>-12.45 k</td><td>-31.43</td><td>(-6.25)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-29.52</td><td>(-9.52)</td><td>-14.80 k</td><td>-29.58</td><td>(-9.58)</td><td>14.90 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	44.70	(-1.55)	0.0	44.90	(-1.35)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-31.43	(-6.62)	-12.45 k	-31.43	(-6.25)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-29.52	(-9.52)	-14.80 k	-29.58	(-9.58)	14.90 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																																																																					
TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL SENSE: PULSE ALIGN: AUTO 01:46:53 PM Jan 19, 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 50.0 dBm Log 10 dB/div 40.0 30.0 20.0 10.0 0.00 -10.0 -20.0 -30.0 -40.0 Mask Reference Actual Spectrum Center 400 MHz Span 120 kHz Total Power Ref 45.32 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>42.90</td><td>(-3.35)</td><td>0.0</td><td>43.08</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>-25.84</td><td>(-0.66)</td><td>-12.50 k</td><td>-26.87</td><td>(-1.69)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-23.79</td><td>(-3.79)</td><td>-12.50 k</td><td>-24.70</td><td>(-4.70)</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 Man Freq Offset 0 Hz <tr><td>TX-ANH</td><td>FM</td><td>CH_{M1}</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask RL SENSE: PULSE ALIGN: AUTO 01:50:42 PM Jan 19, 2022 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 22 dB Ref 50.0 dBm Log 10 dB/div 40.0 30.0 20.0 10.0 0.00 -10.0 -20.0 -30.0 -40.0 Mask Reference Actual Spectrum Center 406 MHz Span 120 kHz Total Power Ref 44.84 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>44.43</td><td>(-1.81)</td><td>0.0</td><td>44.83</td><td>(-1.41)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-27.95</td><td>(-7.12)</td><td>-11.90 k</td><td>-27.97</td><td>(-6.41)</td><td>12.00 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-27.63</td><td>(-7.63)</td><td>-12.50 k</td><td>-26.25</td><td>(-6.25)</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 405.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz <tr><td>TX-ANH</td><td>FM</td><td>CH_{M1}</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask RL SENSE: PULSE ALIGN: AUTO 01:51:03 PM Jan 19, 2022 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 22 dB Ref 50.0 dBm Log 10 dB/div 40.0 30.0 20.0 10.0 0.00 -10.0 -20.0 -30.0 -40.0 Mask Reference Actual Spectrum Center 406 MHz Span 120 kHz Total Power Ref 44.85 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>42.61</td><td>(-3.63)</td><td>0.0</td><td>43.04</td><td>(-3.19)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-26.23</td><td>(-1.03)</td><td>-12.50 k</td><td>-27.53</td><td>(-2.33)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-26.41</td><td>(-6.41)</td><td>-12.90 k</td><td>-27.23</td><td>(-7.23)</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></tbody></table> MSO File <Temp.png> saved STATUS Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Man 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	42.90	(-3.35)	0.0	43.08	(-3.18)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-25.84	(-0.66)	-12.50 k	-26.87	(-1.69)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-23.79	(-3.79)	-12.50 k	-24.70	(-4.70)	12.55 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	TX-ANH	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL SENSE: PULSE ALIGN: AUTO 01:50:42 PM Jan 19, 2022 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 22 dB Ref 50.0 dBm Log 10 dB/div 40.0 30.0 20.0 10.0 0.00 -10.0 -20.0 -30.0 -40.0 Mask Reference Actual Spectrum Center 406 MHz Span 120 kHz Total Power Ref 44.84 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>44.43</td><td>(-1.81)</td><td>0.0</td><td>44.83</td><td>(-1.41)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-27.95</td><td>(-7.12)</td><td>-11.90 k</td><td>-27.97</td><td>(-6.41)</td><td>12.00 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-27.63</td><td>(-7.63)</td><td>-12.50 k</td><td>-26.25</td><td>(-6.25)</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 405.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz <tr><td>TX-ANH</td><td>FM</td><td>CH_{M1}</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask RL SENSE: PULSE ALIGN: AUTO 01:51:03 PM Jan 19, 2022 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 22 dB Ref 50.0 dBm Log 10 dB/div 40.0 30.0 20.0 10.0 0.00 -10.0 -20.0 -30.0 -40.0 Mask Reference Actual Spectrum Center 406 MHz Span 120 kHz Total Power Ref 44.85 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>42.61</td><td>(-3.63)</td><td>0.0</td><td>43.04</td><td>(-3.19)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-26.23</td><td>(-1.03)</td><td>-12.50 k</td><td>-27.53</td><td>(-2.33)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-26.41</td><td>(-6.41)</td><td>-12.90 k</td><td>-27.23</td><td>(-7.23)</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></tbody></table> MSO File <Temp.png> saved STATUS Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Man 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	44.43	(-1.81)	0.0	44.83	(-1.41)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-27.95	(-7.12)	-11.90 k	-27.97	(-6.41)	12.00 k	12.50 kHz	60.00 kHz	100.0 Hz	-27.63	(-7.63)	-12.50 k	-26.25	(-6.25)	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	—	(—)	—	—	(—)	—	TX-ANH	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL SENSE: PULSE ALIGN: AUTO 01:51:03 PM Jan 19, 2022 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 22 dB Ref 50.0 dBm Log 10 dB/div 40.0 30.0 20.0 10.0 0.00 -10.0 -20.0 -30.0 -40.0 Mask Reference Actual Spectrum Center 406 MHz Span 120 kHz Total Power Ref 44.85 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>42.61</td><td>(-3.63)</td><td>0.0</td><td>43.04</td><td>(-3.19)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-26.23</td><td>(-1.03)</td><td>-12.50 k</td><td>-27.53</td><td>(-2.33)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-26.41</td><td>(-6.41)</td><td>-12.90 k</td><td>-27.23</td><td>(-7.23)</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></tbody></table> MSO File <Temp.png> saved STATUS Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	42.61	(-3.63)	0.0	43.04	(-3.19)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-26.23	(-1.03)	-12.50 k	-27.53	(-2.33)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-26.41	(-6.41)	-12.90 k	-27.23	(-7.23)	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	—	(—)	—	—	(—)	—
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