

Project No.	SHT2311103104EW		
Test sample No.	YPHT23111031002	Model No.	M4EX
Start test date	2023/12/12	Finish date	2024/1/30
Temperature	24.2℃	Humidity	51%
Test Engineer	Xiangyu Wei	Auditor	Xiaodong Zhu

Appendix clause	Test Item	Test date (M/D)	Test Result (PASS/FAIL)
A	Maximum Transmitter Power	1/8	PASS
B	Occupied Bandwidth	12/19	PASS
C	Emission Mask	1/30	PASS
D	Modulation Limit	12/19	PASS
E	Audio Frequency Response	12/19	PASS
F	Frequency Stability Test & Temperature	12/19	PASS
G	Frequency Stability Test & Voltage	12/19	PASS
H	Transmitter Frequency Behavior	12/19	PASS
I	Spurious Emission On Antenna Port	12/19	PASS

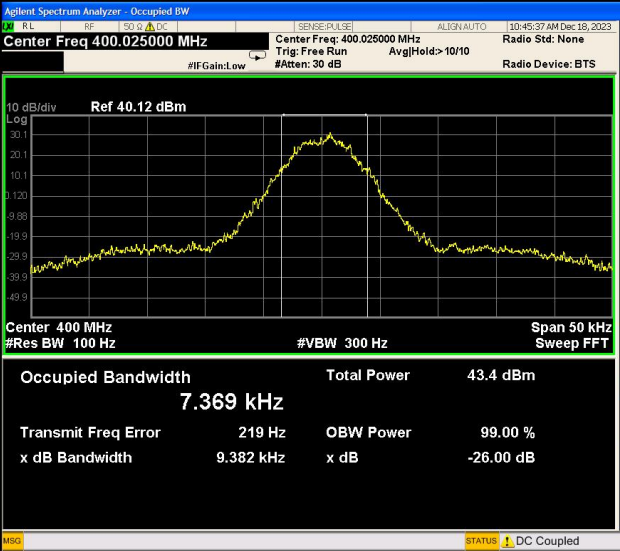
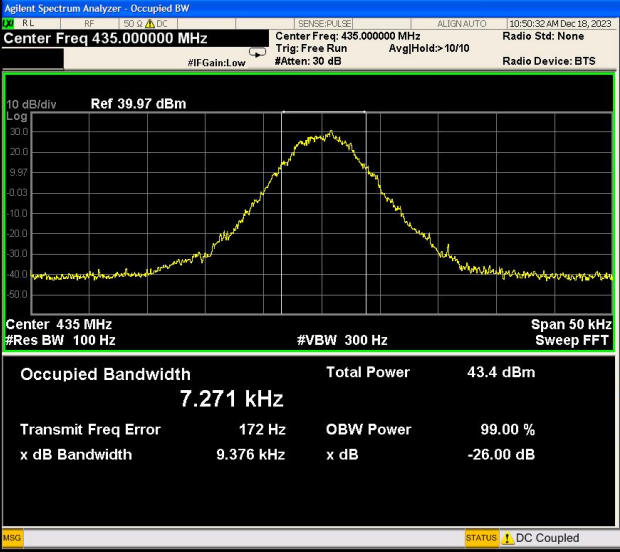
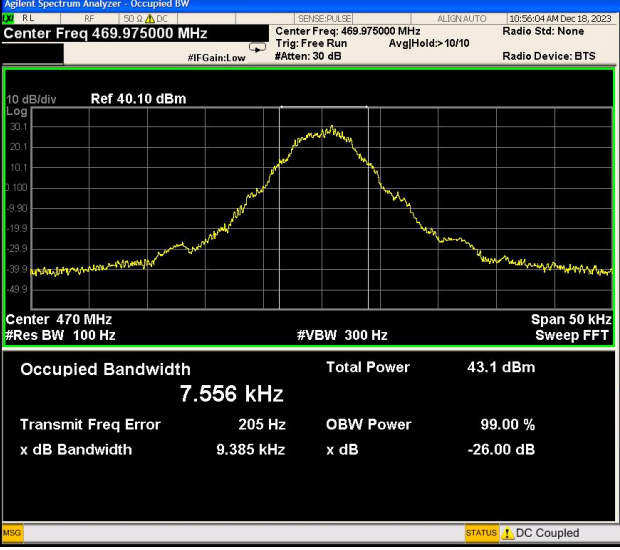
Appendix A:Maximum Transmitter Power

Operation Mode	Modulation Type	Test Channel	Measured Power (dBm)	Measured Power(W)	Rated Power(W)	Percentage (%)	Limit (%)	Result
TX-DNH	4FSK	CH _L	36.1	4.06	4.00	1.5	±20	PASS
TX-DNH	4FSK	CH _M	36.0	4.00	4.00	0.0	±20	PASS
TX-DNH	4FSK	CH _H	35.9	3.92	4.00	-2.0	±20	PASS
TX-DNL	4FSK	CH _L	29.5	0.89	1.00	-11.0	±20	PASS
TX-DNL	4FSK	CH _M	29.1	0.81	1.00	-19.0	±20	PASS
TX-DNL	4FSK	CH _H	29.7	0.93	1.00	-7.0	±20	PASS
TX-ANH	FM	CH _L	36.5	4.47	4.00	11.8	±20	PASS
TX-ANH	FM	CH _M	36.7	4.63	4.00	15.8	±20	PASS
TX-ANH	FM	CH _H	36.3	4.29	4.00	7.3	±20	PASS
TX-ANL	FM	CH _L	29.9	0.98	1.00	-2.0	±20	PASS
TX-ANL	FM	CH _M	29.8	0.96	1.00	-4.0	±20	PASS
TX-ANL	FM	CH _H	29.4	0.87	1.00	-13.0	±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	7.430	9.382	≤ 11.25	PASS
TX-DNH	4FSK	CH _M	7.281	9.376	≤ 11.25	PASS
TX-DNH	4FSK	CH _H	7.571	9.385	≤ 11.25	PASS
TX-DNL	4FSK	CH _L	7.532	9.545	≤ 11.25	PASS
TX-DNL	4FSK	CH _M	7.778	9.692	≤ 11.25	PASS
TX-DNL	4FSK	CH _H	7.831	9.812	≤ 11.25	PASS
TX-ANH	FM	CH _L	9.963	10.153	≤ 11.25	PASS
TX-ANH	FM	CH _M	9.956	10.152	≤ 11.25	PASS
TX-ANH	FM	CH _H	9.948	10.152	≤ 11.25	PASS
TX-ANL	FM	CH _L	9.977	10.158	≤ 11.25	PASS
TX-ANL	FM	CH _M	10.028	10.170	≤ 11.25	PASS
TX-ANL	FM	CH _H	10.036	10.180	≤ 11.25	PASS

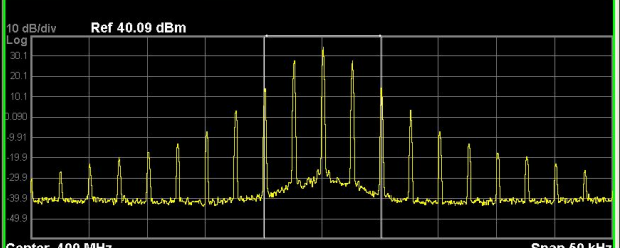
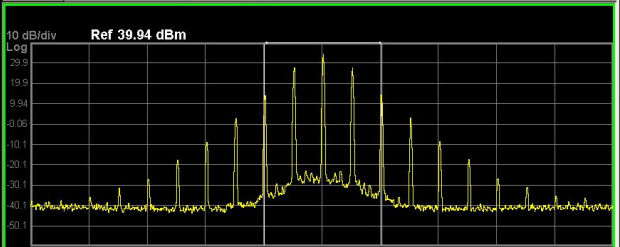
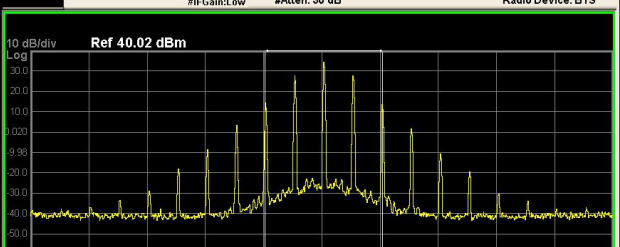
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	 Agilent Spectrum Analyzer - Occupied BW Center Freq 400.025000 MHz Ref 40.12 dBm Occupied Bandwidth 7.369 kHz Total Power 43.4 dBm Transmit Freq Error 219 Hz OBW Power 99.00 % x dB Bandwidth 9.382 kHz x dB -26.00 dB
TX-DNH	4FSK	CH _M	 Agilent Spectrum Analyzer - Occupied BW Center Freq 435.000000 MHz Ref 39.97 dBm Occupied Bandwidth 7.271 kHz Total Power 43.4 dBm Transmit Freq Error 172 Hz OBW Power 99.00 % x dB Bandwidth 9.376 kHz x dB -26.00 dB
TX-DNH	4FSK	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 469.975000 MHz Ref 40.10 dBm Occupied Bandwidth 7.556 kHz Total Power 43.1 dBm Transmit Freq Error 205 Hz OBW Power 99.00 % x dB Bandwidth 9.385 kHz x dB -26.00 dB

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Occupied BW Center Freq 400.025000 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS #IF Gain: Low #Att: 26 dB Ref 36.02 dBm 10 dB/div Log Center 400 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.527 kHz Total Power 38.5 dBm Transmit Freq Error 168 Hz OBW Power 99.00 % x dB Bandwidth 9.404 kHz x dB -26.00 dB Frequency Center Freq 400.025000 MHz CF Step 5.000 kHz Freq Offset 0 Hz Auto Man STATUS 1 DC Coupled
TX-DNL	4FSK	CH _M	Agilent Spectrum Analyzer - Occupied BW Center Freq 435.000000 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS #IF Gain: Low #Att: 24 dB Ref 35.13 dBm 10 dB/div Log Center 435 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.796 kHz Total Power 37.0 dBm Transmit Freq Error 171 Hz OBW Power 99.00 % x dB Bandwidth 9.692 kHz x dB -26.00 dB Frequency Center Freq 435.000000 MHz CF Step 5.000 kHz Freq Offset 0 Hz Auto Man STATUS 1 DC Coupled
TX-DNL	4FSK	CH _H	Agilent Spectrum Analyzer - Occupied BW Center Freq 469.975000 MHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS #IF Gain: Low #Att: 26 dB Ref Value 36.26 dBm 10 dB/div Log Center 470 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 7.831 kHz Total Power 36.0 dBm Transmit Freq Error 227 Hz OBW Power 99.00 % x dB Bandwidth 9.812 kHz x dB -26.00 dB Trace/Detector Clear Write Average Max Hold Min Hold Detector Average Auto Man STATUS

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Occupied BW Center Freq 400.025000 MHz Ref 40.09 dBm  Center 400 MHz #Res BW 100 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.963 kHz Total Power 36.4 dBm Transmit Freq Error 141 Hz OBW Power 99.00 % x dB Bandwidth 10.15 kHz x dB -26.00 dB Frequency 400.025000 MHz CF Step 5.000 kHz Freq Offset 0 Hz STATUS DC Coupled
TX-ANH	FM	CH _M	Agilent Spectrum Analyzer - Occupied BW Center Freq 435.000000 MHz Ref 39.94 dBm  Center 435 MHz #Res BW 100 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.956 kHz Total Power 36.1 dBm Transmit Freq Error 143 Hz OBW Power 99.00 % x dB Bandwidth 10.15 kHz x dB -26.00 dB Frequency 435.000000 MHz CF Step 5.000 kHz Freq Offset 0 Hz STATUS DC Coupled
TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Occupied BW Center Freq 469.975000 MHz Ref 40.02 dBm  Center 470 MHz #Res BW 100 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.948 kHz Total Power 36.0 dBm Transmit Freq Error 194 Hz OBW Power 99.00 % x dB Bandwidth 10.15 kHz x dB -26.00 dB Frequency 469.975000 MHz CF Step 5.000 kHz Freq Offset 0 Hz STATUS DC Coupled

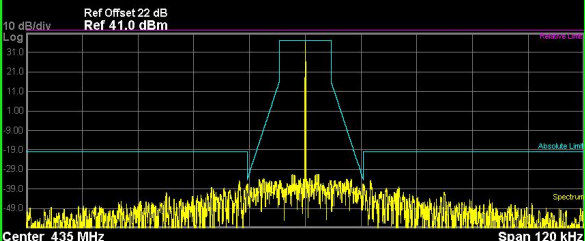
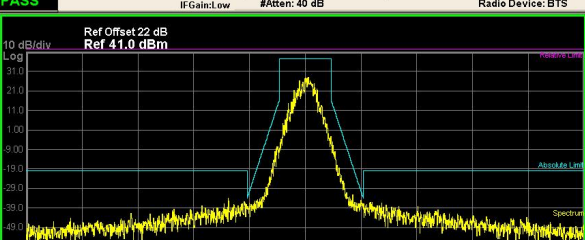
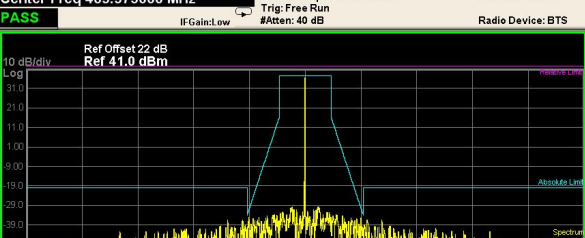
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Occupied BW Center Freq 400.025000 MHz Center Freq: 400.025000 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None #IF Gain: Low #Atten: 26 dB Radio Device: BTS 10 dB/div Ref 35.98 dBm Center 400 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 9.977 kHz Total Power 31.7 dBm Transmit Freq Error 171 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB Frequency Center Freq 400.025000 MHz CF Step 5.000 kHz Freq Offset 0 Hz STATUS DC Coupled
TX-ANL	FM	CH _M	Agilent Spectrum Analyzer - Occupied BW Center Freq 435.000000 MHz Center Freq: 435.000000 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None #IF Gain: Low #Atten: 24 dB Radio Device: BTS 10 dB/div Ref 34.53 dBm Center 435 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 10.028 kHz Total Power 29.9 dBm Transmit Freq Error 181 Hz OBW Power 99.00 % x dB Bandwidth 10.17 kHz x dB -26.00 dB Frequency Center Freq 435.000000 MHz CF Step 5.000 kHz Freq Offset 0 Hz STATUS DC Coupled
TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Occupied BW Center Freq 469.975000 MHz Center Freq: 469.975000 MHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None #IF Gain: Low #Atten: 24 dB Radio Device: BTS 10 dB/div Ref 34.28 dBm Center 470 MHz #Res BW 100 Hz #VBW 300 Hz Span 50 kHz Sweep FFT Occupied Bandwidth 10.036 kHz Total Power 30.2 dBm Transmit Freq Error 224 Hz OBW Power 99.00 % x dB Bandwidth 10.18 kHz x dB -26.00 dB Frequency Center Freq 469.975000 MHz CF Step 5.000 kHz Freq Offset 0 Hz STATUS DC Coupled

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 400.025000 MHz Center Freq: 400.025000 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 22 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.00 9.00 29.0 39.0 49.0 Center 400 MHz Span 120 kHz Total Power Ref 39.91 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>28.13</td><td>(-9.32)</td><td>-50.00</td><td>27.35</td><td>(-10.10)</td><td>1.100 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.07</td><td>(-2.53)</td><td>-12.30 k</td><td>-36.79</td><td>(-3.17)</td><td>12.45 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>-12.50 k</td><td>-35.93</td><td>(-15.93)</td><td>14.50 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved STATUS Frequency Center Freq 400.025000 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	28.13	(-9.32)	-50.00	27.35	(-10.10)	1.100 k	5.625 kHz	12.50 kHz	100.0 Hz	-35.07	(-2.53)	-12.30 k	-36.79	(-3.17)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.05	(-15.05)	-12.50 k	-35.93	(-15.93)	14.50 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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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNH	4FSK	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SENSE: PULSE ALIGN: AUTO 03:00:11 PM Jun 30, 2024 Center Freq 435.000000 MHz Center Freq: 435.000000 MHz Radio Std: None Trig: Free Run #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low 10 dB/div Ref Offset 22 dB Ref 41.0 dBm  Center 435 MHz Span 120 kHz Total Power Ref 36.39 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>35.17</td><td>(-1.95)</td><td>0.0</td><td>36.40</td><td>(-0.71)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.49</td><td>(-3.25)</td><td>-12.35 k</td><td>-36.35</td><td>(-2.03)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.82</td><td>(-14.82)</td><td>-14.05 k</td><td>-34.71</td><td>(-14.71)</td><td>14.15 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK D.state> recalled STATUS Frequency Center Freq 435.000000 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	35.17	(-1.95)	0.0	36.40	(-0.71)	50.00	5.625 kHz	12.50 kHz	100.0 Hz	-36.49	(-3.25)	-12.35 k	-36.35	(-2.03)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.82	(-14.82)	-14.05 k	-34.71	(-14.71)	14.15 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SENSE: PULSE ALIGN: AUTO 03:05:09 PM Jun 30, 2024 Center Freq 469.975000 MHz Center Freq: 469.975000 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low 10 dB/div Ref Offset 22 dB Ref 41.0 dBm  Center 470 MHz Span 120 kHz Total Power Ref 40.12 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>27.37</td><td>(-9.97)</td><td>-50.00</td><td>27.85</td><td>(-9.49)</td><td>750.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.89</td><td>(-5.15)</td><td>-12.45 k</td><td>-36.91</td><td>(-3.53)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-34.10</td><td>(-14.10)</td><td>-16.45 k</td><td>-36.09</td><td>(-16.09)</td><td>14.05 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved STATUS Frequency Center Freq 469.975000 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	27.37	(-9.97)	-50.00	27.85	(-9.49)	750.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.89	(-5.15)	-12.45 k	-36.91	(-3.53)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-34.10	(-14.10)	-16.45 k	-36.09	(-16.09)	14.05 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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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
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TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SENSE: PULSE ALIGN: AUTO 03:04:14 PM Jun 30, 2024 Center Freq 469.975000 MHz Center Freq: 469.975000 MHz Radio Std: None Trig: Free Run #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low 10 dB/div Ref Offset 22 dB Ref 41.0 dBm  Center 470 MHz Span 120 kHz Total Power Ref 36.53 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>36.52</td><td>(-0.82)</td><td>0.0</td><td>36.52</td><td>(-0.82)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.13</td><td>(-3.94)</td><td>-12.10 k</td><td>-35.46</td><td>(-4.27)</td><td>12.10 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.46</td><td>(-16.46)</td><td>-16.60 k</td><td>-36.40</td><td>(-16.40)</td><td>13.35 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK D.state> recalled STATUS Frequency Center Freq 469.975000 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	36.52	(-0.82)	0.0	36.52	(-0.82)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.13	(-3.94)	-12.10 k	-35.46	(-4.27)	12.10 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.46	(-16.46)	-16.60 k	-36.40	(-16.40)	13.35 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 G AC SENSE:PULSE ALIGN:AUTO 02:59:18 PM Jan 30, 2024 Center Freq 400.025000 MHz Center Freq: 400.025000 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 Radio Device: BTS #Atten: 40 dB Ref Offset 22 dB Ref 35.0 dBm 10 dB/div Log 25.0 15.0 5.00 15.0 25.0 35.0 45.0 55.0 Spectrum Center 400 MHz Span 120 kHz Total Power Ref 34.46 dBm @ 0.125 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>20.16</td><td>(-11.28)</td><td>-1.400 k</td><td>23.08</td><td>(-8.37)</td><td>550.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.79</td><td>(2.61)</td><td>-12.25 k</td><td>-43.05</td><td>(-3.05)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.47</td><td>(-20.47)</td><td>-13.30 k</td><td>-40.09</td><td>(-20.09)</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></table> File <Temp.png> saved STATUS Frequency Center Freq 400.025000 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	20.16	(-11.28)	-1.400 k	23.08	(-8.37)	550.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.79	(2.61)	-12.25 k	-43.05	(-3.05)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.47	(-20.47)	-13.30 k	-40.09	(-20.09)	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	—	(—)	—	—	(—)	—
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 _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 G AC SENSE:PULSE ALIGN:AUTO 02:59:26 PM Jan 30, 2024 Center Freq 400.025000 MHz Center Freq: 400.025000 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 Radio Device: BTS #Atten: 40 dB Ref Offset 22 dB Ref 35.0 dBm 10 dB/div Log 25.0 15.0 5.00 15.0 25.0 35.0 45.0 55.0 Spectrum Center 400 MHz Span 120 kHz Total Power Ref 30.67 dBm @ 0.125 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>30.67</td><td>(-0.77)</td><td>-50.00</td><td>30.22</td><td>(-1.22)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.76</td><td>(-3.13)</td><td>-12.45 k</td><td>-41.96</td><td>(-3.06)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.70</td><td>(-21.70)</td><td>-17.05 k</td><td>-41.80</td><td>(-21.80)</td><td>16.95 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File <MASK D.state> recalled STATUS Frequency Center Freq 400.025000 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	30.67	(-0.77)	-50.00	30.22	(-1.22)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.76	(-3.13)	-12.45 k	-41.96	(-3.06)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.70	(-21.70)	-17.05 k	-41.80	(-21.80)	16.95 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 _M	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 G AC SENSE:PULSE ALIGN:AUTO 03:03:14 PM Jan 30, 2024 Center Freq 435.000000 MHz Center Freq: 435.000000 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 Radio Device: BTS #Atten: 40 dB Ref Offset 22 dB Ref 37.0 dBm 10 dB/div Log 27.0 17.0 7.00 17.0 27.0 37.0 47.0 57.0 Spectrum Center 435 MHz Span 120 kHz Total Power Ref 33.50 dBm @ 0.125 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>20.76</td><td>(-12.46)</td><td>0.0</td><td>22.68</td><td>(-10.54)</td><td>650.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-45.06</td><td>(-6.84)</td><td>-12.50 k</td><td>-42.93</td><td>(-5.43)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.16</td><td>(-23.16)</td><td>-14.55 k</td><td>-42.02</td><td>(-22.02)</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></table> File <Temp.png> saved STATUS Frequency Center Freq 435.000000 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	20.76	(-12.46)	0.0	22.68	(-10.54)	650.0	5.625 kHz	12.50 kHz	100.0 Hz	-45.06	(-6.84)	-12.50 k	-42.93	(-5.43)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.16	(-23.16)	-14.55 k	-42.02	(-22.02)	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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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																																																																					
TX-DNL	4FSK	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SENSE PULSE ALIGN AUTO 03:02:09 PM Jun 30, 2024 Center Freq 435.000000 MHz Center Freq: 435.000000 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 37.0 dBm 10 dB/div Log 27.0 17.0 7.0 3.0 13.0 23.0 33.0 43.0 53.0 Center 435 MHz Span 120 kHz Spectrum Total Power Ref 32.44 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>31.65</td><td>(-1.57)</td><td>0.0</td><td>32.45</td><td>(-0.77)</td><td>50.00</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.44</td><td>(-3.22)</td><td>-12.50 k</td><td>-40.56</td><td>(-8.88)</td><td>11.60 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.10</td><td>(-23.10)</td><td>-13.40 k</td><td>-42.39</td><td>(-22.39)</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> File <MASK D.state> recalled STATUS Frequency Center Freq 435.000000 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz <tr><td>TX-DNL</td><td>4FSK</td><td>CH_H</td><td> Agilent Spectrum Analyzer - 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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																																																																					
TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SENSE:PULSE ALIGN:AUTO 02:32:33 PM Jun 30, 2024 Center Freq 400.025000 MHz Center Freq: 400.025000 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.00 0.90 0.80 0.70 0.60 0.50 0.40 0.30 0.20 0.10 0.00 -10.0 -20.0 -30.0 -40.0 Center 400 MHz Span 120 kHz Total Power Ref 36.63 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 ></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>36.62</td><td>(-0.76)</td><td>-50.00</td><td>36.25</td><td>(-1.13)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.21</td><td>(-2.97)</td><td>-12.25 k</td><td>-35.90</td><td>(-1.85)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.47</td><td>(-15.47)</td><td>-14.40 k</td><td>-35.45</td><td>(-15.45)</td><td>14.30 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> MSG: File <MASK D.state> recalled (STATUS) Frequency Center Freq 400.025000 MHz CF Step 12.000 kHz Man Auto Freq Offset 0 Hz <tr><td>TX-ANH</td><td>FM</td><td>CH_L</td><td> Agilent Spectrum Analyzer - 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TX-ANH	FM	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SENSE:PULSE ALIGN:AUTO 02:37:42 PM Jun 30, 2024 Center Freq 435.000000 MHz Center Freq: 435.000000 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.00 0.90 0.80 0.70 0.60 0.50 0.40 0.30 0.20 0.10 0.00 -10.0 -20.0 -30.0 -40.0 Center 435 MHz Span 120 kHz Total Power Ref 36.44 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>-26.75</td><td>(-63.81)</td><td>0.0</td><td>36.48</td><td>(0.58)</td><td>150.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.01</td><td>(-7.09)</td><td>-12.30 k</td><td>-39.23</td><td>(-5.58)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.40</td><td>(-17.40)</td><td>-15.95 k</td><td>-37.03</td><td>(-17.03)</td><td>16.25 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> MSG: Alignment Completed (STATUS) Frequency Center Freq 435.000000 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 >	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	-26.75	(-63.81)	0.0	36.48	(0.58)	150.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.01	(-7.09)	-12.30 k	-39.23	(-5.58)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.40	(-17.40)	-15.95 k	-37.03	(-17.03)	16.25 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-ANH	FM	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SENSE: PULSE ALIGN: AUTO 02:38:04 PM Jun 30, 2024 Center Freq 435.000000 MHz Center Freq: 435.000000 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.00 9.00 19.0 29.0 39.0 49.0 Center 435 MHz Span 120 kHz Total Power Ref 36.45 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>28.75</td><td>(-8.30)</td><td>-2.350 k</td><td>34.54</td><td>(-2.52)</td><td>150.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.25</td><td>(-1.96)</td><td>-12.35 k</td><td>0.136</td><td>(-0.74)</td><td>7.650 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.12</td><td>(-13.12)</td><td>-13.25 k</td><td>-33.93</td><td>(-13.93)</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> MSG File <Temp.png> saved (STATUS) Frequency Center Freq 435.000000 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	28.75	(-8.30)	-2.350 k	34.54	(-2.52)	150.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.25	(-1.96)	-12.35 k	0.136	(-0.74)	7.650 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.12	(-13.12)	-13.25 k	-33.93	(-13.93)	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-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SENSE: PULSE ALIGN: AUTO 02:42:27 PM Jun 30, 2024 Center Freq 469.975000 MHz Center Freq: 469.975000 MHz Radio Std: None Trig: Free Run #Atten: 40 dB PASS IF Gain: Low Radio Device: BTS Ref Offset 22 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.00 9.00 19.0 29.0 39.0 49.0 Center 470 MHz Span 120 kHz Total Power Ref 36.55 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>16.42</td><td>(-20.92)</td><td>0.0</td><td>36.57</td><td>(-0.77)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.27</td><td>(-3.99)</td><td>-12.25 k</td><td>-36.51</td><td>(-2.77)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.20</td><td>(-16.20)</td><td>-13.20 k</td><td>-35.54</td><td>(-15.54)</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> MSG File <MASK D.state> recalled (STATUS) Frequency Center Freq 469.975000 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	16.42	(-20.92)	0.0	36.57	(-0.77)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.27	(-3.99)	-12.25 k	-36.51	(-2.77)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.20	(-16.20)	-13.20 k	-35.54	(-15.54)	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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TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 dB AC SENSE: PULSE ALIGN: AUTO 02:42:48 PM Jun 30, 2024 Center Freq 469.975000 MHz Center Freq: 469.975000 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.00 9.00 19.0 29.0 39.0 49.0 Center 470 MHz Span 120 kHz Total Power Ref 36.56 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>28.84</td><td>(-8.49)</td><td>-2.400 k</td><td>34.63</td><td>(-2.70)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.14</td><td>(-1.13)</td><td>-12.35 k</td><td>0.034</td><td>(-1.12)</td><td>7.650 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.15</td><td>(-15.15)</td><td>-14.25 k</td><td>-34.18</td><td>(-14.18)</td><td>12.60 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> MSG File <Temp.png> saved (STATUS) Frequency Center Freq 469.975000 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	28.84	(-8.49)	-2.400 k	34.63	(-2.70)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.14	(-1.13)	-12.35 k	0.034	(-1.12)	7.650 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.15	(-15.15)	-14.25 k	-34.18	(-14.18)	12.60 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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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 G AC SENSE:PULSE ALIGN:AUTO 02:34:04 PM Jun 30, 2024 Center Freq 400.025000 MHz Center Freq: 400.025000 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 22 dB Ref 37.0 dBm 10 dB/div Log 27.0 7.00 3.00 13.0 23.0 33.0 43.0 53.0 Center 400 MHz Span 120 kHz Total Power Ref 32.69 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>32.71</td><td>(-0.71)</td><td>-50.00</td><td>32.34</td><td>(-1.08)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.24</td><td>(-6.77)</td><td>-12.15 k</td><td>-44.94</td><td>(-6.92)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.93</td><td>(-19.93)</td><td>-15.50 k</td><td>-40.01</td><td>(-20.01)</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></tbody></table> MSO: File <MASK D.state> recalled (STATUS) Frequency Center Freq 400.025000 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	32.71	(-0.71)	-50.00	32.34	(-1.08)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.24	(-6.77)	-12.15 k	-44.94	(-6.92)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.93	(-19.93)	-15.50 k	-40.01	(-20.01)	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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TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 G AC SENSE:PULSE ALIGN:AUTO 02:34:26 PM Jun 30, 2024 Center Freq 400.025000 MHz Center Freq: 400.025000 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Avg: 100.00% of 10 Radio Device: BTS Ref Offset 22 dB Ref 37.0 dBm 10 dB/div Log 27.0 7.00 3.00 13.0 23.0 33.0 43.0 53.0 Center 400 MHz Span 120 kHz Total Power Ref 32.70 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>30.79</td><td>(-2.64)</td><td>-50.00</td><td>30.42</td><td>(-3.00)</td><td>0.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.67</td><td>(-0.65)</td><td>-12.50 k</td><td>-38.98</td><td>(-0.97)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.12</td><td>(-16.12)</td><td>-12.55 k</td><td>-37.91</td><td>(-17.91)</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 400.025000 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	30.79	(-2.64)	-50.00	30.42	(-3.00)	0.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.67	(-0.65)	-12.50 k	-38.98	(-0.97)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.12	(-16.12)	-12.55 k	-37.91	(-17.91)	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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TX-ANL	FM	CH _M	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50 G AC SENSE:PULSE ALIGN:AUTO 02:40:15 PM Jun 30, 2024 Center Freq 435.000000 MHz Center Freq: 435.000000 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 35.0 45.0 55.0 Center 435 MHz Span 120 kHz Total Power Ref 30.36 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>-34.01</td><td>(-65.17)</td><td>-19.50 k</td><td>30.38</td><td>(-0.79)</td><td>150.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-43.45</td><td>(-6.81)</td><td>-12.00 k</td><td>-42.88</td><td>(-4.07)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.94</td><td>(-19.94)</td><td>-13.30 k</td><td>-40.02</td><td>(-20.02)</td><td>13.60 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 <MASK D.state> recalled (STATUS) Frequency Center Freq 435.000000 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	-34.01	(-65.17)	-19.50 k	30.38	(-0.79)	150.0	5.625 kHz	12.50 kHz	100.0 Hz	-43.45	(-6.81)	-12.00 k	-42.88	(-4.07)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.94	(-19.94)	-13.30 k	-40.02	(-20.02)	13.60 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 _M	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 435.000000 MHz Center Freq: 435.000000 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 22 dB Ref 35.0 dBm Center 435 MHz Span 120 kHz Total Power Ref 30.37 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>22.68</td><td>(-8.48)</td><td>-2.350 k</td><td>28.47</td><td>(-2.69)</td><td>150.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.23</td><td>(-0.05)</td><td>-12.35 k</td><td>-5.961</td><td>(-0.95)</td><td>7.650 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.94</td><td>(-20.94)</td><td>-16.20 k</td><td>-38.29</td><td>(-18.29)</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> Frequency Center Freq 435.000000 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	22.68	(-8.48)	-2.350 k	28.47	(-2.69)	150.0	5.625 kHz	12.50 kHz	100.0 Hz	-39.23	(-0.05)	-12.35 k	-5.961	(-0.95)	7.650 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.94	(-20.94)	-16.20 k	-38.29	(-18.29)	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-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.975000 MHz Center Freq: 469.975000 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 22 dB Ref 35.0 dBm Center 470 MHz Span 120 kHz Total Power Ref 30.62 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>19.32</td><td>(-12.10)</td><td>0.0</td><td>30.61</td><td>(-0.81)</td><td>100.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-48.79</td><td>(-8.77)</td><td>-12.50 k</td><td>-42.34</td><td>(-7.05)</td><td>11.85 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-43.11</td><td>(-23.11)</td><td>-13.15 k</td><td>-42.89</td><td>(-22.89)</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> Frequency Center Freq 469.975000 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	19.32	(-12.10)	0.0	30.61	(-0.81)	100.0	5.625 kHz	12.50 kHz	100.0 Hz	-48.79	(-8.77)	-12.50 k	-42.34	(-7.05)	11.85 k	12.50 kHz	60.00 kHz	100.0 Hz	-43.11	(-23.11)	-13.15 k	-42.89	(-22.89)	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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