



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 Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS IF Gain: Low Ref Offset 28 dB Ref 38.0 dBm 10 dB/div Log 20.0 18.0 16.0 14.0 12.0 10.0 8.0 6.0 4.0 2.0 0.0 -2.0 -4.0 -6.0 -8.0 -10.0 -12.0 -14.0 -16.0 -18.0 -20.0 -22.0 -24.0 -26.0 -28.0 -30.0 -32.0 -34.0 -36.0 -38.0 -40.0 -42.0 -44.0 -46.0 -48.0 -50.0 Center 470 MHz Span 120 kHz Total Power Ref 33.02 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>-15.00</td><td>(-49.02)</td><td>-400.0</td><td>32.97</td><td>(-1.05)</td><td>200.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.71</td><td>(-4.02)</td><td>-12.40 k</td><td>-37.50</td><td>(-2.63)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.73</td><td>(-20.73)</td><td>-13.15 k</td><td>-40.68</td><td>(-20.68)</td><td>15.15 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></table> File <MASK.D.state> recalled STATUS Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz <tr><td>TX-DNL</td><td>4FSK</td><td>CH_H</td><td> Agilent Spectrum Analyzer - 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Spectrum Emission Mask Center Freq 400.012500 MHz Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS IF Gain: Low Ref Offset 28 dB Ref 40.0 dBm 10 dB/div Log 30.0 20.0 10.0 0.0 -10.0 -20.0 -30.0 -40.0 -50.0 Center 400 MHz Span 120 kHz Total Power Ref 35.61 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>-22.38</td><td>(-58.83)</td><td>-1.850 k</td><td>35.63</td><td>(-0.82)</td><td>200.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.68</td><td>(-6.70)</td><td>-12.50 k</td><td>-39.49</td><td>(-4.50)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.71</td><td>(-16.71)</td><td>-13.95 k</td><td>-36.64</td><td>(-16.64)</td><td>14.35 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></table> File <MASK.D.state> recalled STATUS Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	-22.38	(-58.83)	-1.850 k	35.63	(-0.82)	200.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.68	(-6.70)	-12.50 k	-39.49	(-4.50)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.71	(-16.71)	-13.95 k	-36.64	(-16.64)	14.35 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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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RLRF50 dBACSENSE PULSE ALIGN OFF 10:06:19 AM Oct 09, 2019 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 28 dB Ref 40.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.00 0.00 -9.00 -19.00 -29.00 -39.00 -49.00 Center 400 MHz Span 120 kHz Total Power Ref 35.60 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>26.07</td><td>(-10.39)</td><td>-2.300 k</td><td>34.42</td><td>(-2.03)</td><td>200.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-34.17</td><td>(-0.27)</td><td>-12.35 k</td><td>-37.35</td><td>(-2.73)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.16</td><td>(-15.16)</td><td>-14.25 k</td><td>-36.36</td><td>(-16.36)</td><td>15.80 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> Msg File <Temp.png> saved (STATUS) Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz AutoMan Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	26.07	(-10.39)	-2.300 k	34.42	(-2.03)	200.0	5.625 kHz	12.50 kHz	100.0 Hz	-34.17	(-0.27)	-12.35 k	-37.35	(-2.73)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.16	(-15.16)	-14.25 k	-36.36	(-16.36)	15.80 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANH	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RLRF50 dBACSENSE PULSE ALIGN OFF 09:57:50 AM Oct 09, 2019 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.00 0.00 -9.00 -19.00 -29.00 -39.00 -49.00 Center 406 MHz Span 120 kHz Total Power Ref 35.69 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>-19.06</td><td>(-55.66)</td><td>-1.650 k</td><td>35.78</td><td>(-0.83)</td><td>150.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-37.95</td><td>(-4.21)</td><td>-12.35 k</td><td>-37.58</td><td>(-4.20)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.61</td><td>(-19.61)</td><td>-12.60 k</td><td>-39.68</td><td>(-19.68)</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> Msg File <MASK.D.state> recalled (STATUS) Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz AutoMan 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	-19.06	(-55.66)	-1.650 k	35.78	(-0.83)	150.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.95	(-4.21)	-12.35 k	-37.58	(-4.20)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.61	(-19.61)	-12.60 k	-39.68	(-19.68)	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	—	(—)	—	—	(—)	—
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TX-ANH	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RLRF50 dBACSENSE PULSE ALIGN OFF 09:57:54 AM Oct 09, 2019 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 1.00 0.00 -9.00 -19.00 -29.00 -39.00 -49.00 Center 406 MHz Span 120 kHz Total Power Ref 35.77 dBm 0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>26.17</td><td>(-10.43)</td><td>-2.300 k</td><td>34.64</td><td>(-1.96)</td><td>200.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.55</td><td>(-3.71)</td><td>-12.50 k</td><td>-38.99</td><td>(-4.52)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.66</td><td>(-16.66)</td><td>-12.50 k</td><td>-35.58</td><td>(-15.58)</td><td>15.50 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> Msg File <Temp.png> saved (STATUS) Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz AutoMan Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	26.17	(-10.43)	-2.300 k	34.64	(-1.96)	200.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.55	(-3.71)	-12.50 k	-38.99	(-4.52)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.66	(-16.66)	-12.50 k	-35.58	(-15.58)	15.50 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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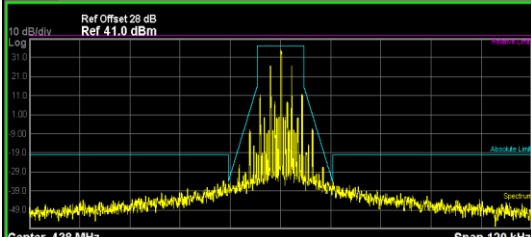
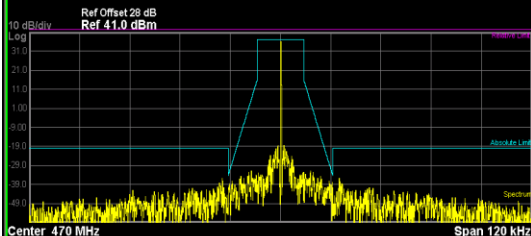
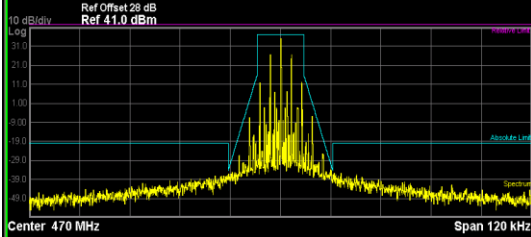


Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANH	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 09:59:54 AM Oct 09, 2019 Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 0.0 -9.0 -19.0 -29.0 -39.0 -49.0 Center 406.1 MHz Span 120 kHz Total Power Ref 35.80 dBm/0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>-21.53</td><td>(-58.05)</td><td>-900.0</td><td>35.70</td><td>(-0.82)</td><td>150.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.87</td><td>(-4.49)</td><td>-12.15 k</td><td>-37.13</td><td>(-2.21)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.34</td><td>(-17.34)</td><td>-13.70 k</td><td>-37.03</td><td>(-17.03)</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> MSG 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	-21.53	(-58.05)	-900.0	35.70	(-0.82)	150.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.87	(-4.49)	-12.15 k	-37.13	(-2.21)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.34	(-17.34)	-13.70 k	-37.03	(-17.03)	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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CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 10:00:26 AM Oct 09, 2019 Center Freq 406.112500 MHz Center Freq: 406.112500 MHz Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset 28 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 0.0 -9.0 -19.0 -29.0 -39.0 -49.0 Center 406.1 MHz Span 120 kHz Total Power Ref 36.21 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>26.04</td><td>(-10.48)</td><td>-2.300 k</td><td>34.53</td><td>(-1.98)</td><td>200.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.05</td><td>(-1.58)</td><td>-12.30 k</td><td>-36.50</td><td>(-1.95)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.36</td><td>(-16.36)</td><td>-13.45 k</td><td>-35.02</td><td>(-15.02)</td><td>15.25 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> MSG 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	26.04	(-10.48)	-2.300 k	34.53	(-1.98)	200.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.05	(-1.58)	-12.30 k	-36.50	(-1.95)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.36	(-16.36)	-13.45 k	-35.02	(-15.02)	15.25 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—		
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 10:03:31 AM Oct 09, 2019 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 28 dB Ref 41.0 dBm 10 dB/div Log 31.0 21.0 11.0 0.0 -9.0 -19.0 -29.0 -39.0 -49.0 Center 438 MHz Span 120 kHz Total Power Ref 35.89 dBm/0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>-17.43</td><td>(-54.39)</td><td>-1.250 k</td><td>35.98</td><td>(-0.98)</td><td>200.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.98</td><td>(-4.86)</td><td>-12.45 k</td><td>-35.33</td><td>(-8.49)</td><td>11.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-37.10</td><td>(-17.10)</td><td>-14.30 k</td><td>-37.14</td><td>(-17.14)</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> MSG File <MASK D.state> recalled (STATUS) Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	-17.43	(-54.39)	-1.250 k	35.98	(-0.98)	200.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.98	(-4.86)	-12.45 k	-35.33	(-8.49)	11.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-37.10	(-17.10)	-14.30 k	-37.14	(-17.14)	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	—	(—)	—	—	(—)	—		
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANH	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 10:03:52 AM Oct 09, 2019 Center Freq 438.012500 MHz Center Freq: 438.012500 MHz Radio Std: None PASS IF Gain: Low Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS Ref Offset 28 dB Ref 41.0 dBm  Center 438 MHz Span 120 kHz Total Power Ref 35.90 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>26.45</td><td>(-10.51)</td><td>-2.300 k</td><td>34.83</td><td>(-2.13)</td><td>200.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-35.48</td><td>(-2.45)</td><td>-12.30 k</td><td>-36.35</td><td>(-1.87)</td><td>12.50 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-33.49</td><td>(-13.49)</td><td>-13.55 k</td><td>-33.90</td><td>(-13.90)</td><td>12.55 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>(—)</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>(—)</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>(—)</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved STATUS Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	26.45	(-10.51)	-2.300 k	34.83	(-2.13)	200.0	5.625 kHz	12.50 kHz	100.0 Hz	-35.48	(-2.45)	-12.30 k	-36.35	(-1.87)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-33.49	(-13.49)	-13.55 k	-33.90	(-13.90)	12.55 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	(—)	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	(—)	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	(—)	(—)	—
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TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 09:55:09 AM Oct 09, 2019 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 #Atten: 40 dB Radio Device: BTS Ref Offset 28 dB Ref 41.0 dBm  Center 470 MHz Span 120 kHz Total Power Ref 36.01 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>-18.51</td><td>(-55.50)</td><td>-600.0</td><td>36.06</td><td>(-0.93)</td><td>150.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-38.67</td><td>(-7.13)</td><td>-12.10 k</td><td>-38.01</td><td>(-4.29)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-35.61</td><td>(-15.61)</td><td>-13.85 k</td><td>-35.62</td><td>(-15.62)</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 469.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	-18.51	(-55.50)	-600.0	36.06	(-0.93)	150.0	5.625 kHz	12.50 kHz	100.0 Hz	-38.67	(-7.13)	-12.10 k	-38.01	(-4.29)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-35.61	(-15.61)	-13.85 k	-35.62	(-15.62)	14.15 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	(—)	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	(—)	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	(—)	(—)	—
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TX-ANH	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 09:55:31 AM Oct 09, 2019 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 #Atten: 40 dB Radio Device: BTS Ref Offset 28 dB Ref 41.0 dBm  Center 470 MHz Span 120 kHz Total Power Ref 36.04 dBm/0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>26.62</td><td>(-10.37)</td><td>-2.350 k</td><td>34.87</td><td>(-2.13)</td><td>150.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-36.16</td><td>(-3.17)</td><td>-12.30 k</td><td>-34.34</td><td>(-1.35)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-36.90</td><td>(-16.90)</td><td>-12.60 k</td><td>-35.64</td><td>(-15.64)</td><td>12.85 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>(—)</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>(—)</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>(—)</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved STATUS Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	26.62	(-10.37)	-2.350 k	34.87	(-2.13)	150.0	5.625 kHz	12.50 kHz	100.0 Hz	-36.16	(-3.17)	-12.30 k	-34.34	(-1.35)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-36.90	(-16.90)	-12.60 k	-35.64	(-15.64)	12.85 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	(—)	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	(—)	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	(—)	(—)	—
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																																																																																																																																																					
TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 10:07:38 AM OCT 09, 2019 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None Trig: Free Run #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 28 dB Ref 37.0 dBm 10 dB/div Log 27.9 7.0 3.00 13.0 33.0 43.0 53.0 Center 400 MHz Span 120 kHz Total Power Ref 32.05 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>-24.48</td><td>(-57.38)</td><td>-2.100 k</td><td>32.05</td><td>(-0.85)</td><td>200.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.51</td><td>(-7.60)</td><td>-12.00 k</td><td>-42.78</td><td>(-5.34)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.17</td><td>(-21.17)</td><td>-16.80 k</td><td>-40.78</td><td>(-20.78)</td><td>13.45 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File <MASK D.state> recalled (STATUS) Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz <tr><td>TX-ANL</td><td>FM</td><td>CH_L</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 10:07:40 AM OCT 09, 2019 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 28 dB Ref 37.0 dBm 10 dB/div Log 27.9 7.0 3.00 13.0 33.0 43.0 53.0 Center 400 MHz Span 120 kHz Total Power Ref 32.07 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>22.56</td><td>(-10.34)</td><td>-2.300 k</td><td>30.92</td><td>(-1.98)</td><td>200.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.09</td><td>(-2.56)</td><td>-12.50 k</td><td>-39.24</td><td>(-2.16)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.82</td><td>(-19.82)</td><td>-13.05 k</td><td>-38.81</td><td>(-18.81)</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></table> File <Temp.png> saved (STATUS) Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz <tr><td>TX-ANL</td><td>FM</td><td>CH_{M1}</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 09:58:44 AM OCT 09, 2019 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None Trig: Free Run #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 28 dB Ref 37.0 dBm 10 dB/div Log 27.9 7.0 3.00 13.0 33.0 43.0 53.0 Center 406 MHz Span 120 kHz Total Power Ref 32.16 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>-24.35</td><td>(-57.38)</td><td>-650.0</td><td>32.17</td><td>(-0.86)</td><td>150.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.47</td><td>(-4.43)</td><td>-12.45 k</td><td>-42.98</td><td>(-6.76)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.28</td><td>(-22.28)</td><td>-19.45 k</td><td>-42.04</td><td>(-22.04)</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> File <MASK D.state> recalled (STATUS) Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto 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	-24.48	(-57.38)	-2.100 k	32.05	(-0.85)	200.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.51	(-7.60)	-12.00 k	-42.78	(-5.34)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.17	(-21.17)	-16.80 k	-40.78	(-20.78)	13.45 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—	TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - 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Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 09:58:44 AM OCT 09, 2019 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None Trig: Free Run #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 28 dB Ref 37.0 dBm 10 dB/div Log 27.9 7.0 3.00 13.0 33.0 43.0 53.0 Center 406 MHz Span 120 kHz Total Power Ref 32.16 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>-24.35</td><td>(-57.38)</td><td>-650.0</td><td>32.17</td><td>(-0.86)</td><td>150.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.47</td><td>(-4.43)</td><td>-12.45 k</td><td>-42.98</td><td>(-6.76)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.28</td><td>(-22.28)</td><td>-19.45 k</td><td>-42.04</td><td>(-22.04)</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> File <MASK D.state> recalled (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	-24.35	(-57.38)	-650.0	32.17	(-0.86)	150.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.47	(-4.43)	-12.45 k	-42.98	(-6.76)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.28	(-22.28)	-19.45 k	-42.04	(-22.04)	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	—	(—)	—	—	(—)	—
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5.625 kHz	12.50 kHz	100.0 Hz	-42.51	(-7.60)	-12.00 k	-42.78	(-5.34)	12.35 k																																																																																																																																																																																																
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TX-ANL	FM	CH _L	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 10:07:40 AM OCT 09, 2019 Center Freq 400.012500 MHz Center Freq: 400.012500 MHz Radio Std: None Trig: Free Run Avg: 100.00% of 10 #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 28 dB Ref 37.0 dBm 10 dB/div Log 27.9 7.0 3.00 13.0 33.0 43.0 53.0 Center 400 MHz Span 120 kHz Total Power Ref 32.07 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>22.56</td><td>(-10.34)</td><td>-2.300 k</td><td>30.92</td><td>(-1.98)</td><td>200.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-41.09</td><td>(-2.56)</td><td>-12.50 k</td><td>-39.24</td><td>(-2.16)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.82</td><td>(-19.82)</td><td>-13.05 k</td><td>-38.81</td><td>(-18.81)</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></table> File <Temp.png> saved (STATUS) Frequency Center Freq 400.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz <tr><td>TX-ANL</td><td>FM</td><td>CH_{M1}</td><td> Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 09:58:44 AM OCT 09, 2019 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None Trig: Free Run #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 28 dB Ref 37.0 dBm 10 dB/div Log 27.9 7.0 3.00 13.0 33.0 43.0 53.0 Center 406 MHz Span 120 kHz Total Power Ref 32.16 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>-24.35</td><td>(-57.38)</td><td>-650.0</td><td>32.17</td><td>(-0.86)</td><td>150.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.47</td><td>(-4.43)</td><td>-12.45 k</td><td>-42.98</td><td>(-6.76)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.28</td><td>(-22.28)</td><td>-19.45 k</td><td>-42.04</td><td>(-22.04)</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> File <MASK D.state> recalled (STATUS) Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto 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	22.56	(-10.34)	-2.300 k	30.92	(-1.98)	200.0	5.625 kHz	12.50 kHz	100.0 Hz	-41.09	(-2.56)	-12.50 k	-39.24	(-2.16)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.82	(-19.82)	-13.05 k	-38.81	(-18.81)	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	—	(—)	—	—	(—)	—	TX-ANL	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 50.0 AC SENSE PULSE ALIGN OFF 09:58:44 AM OCT 09, 2019 Center Freq 405.987500 MHz Center Freq: 405.987500 MHz Radio Std: None Trig: Free Run #Atten: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 28 dB Ref 37.0 dBm 10 dB/div Log 27.9 7.0 3.00 13.0 33.0 43.0 53.0 Center 406 MHz Span 120 kHz Total Power Ref 32.16 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>-24.35</td><td>(-57.38)</td><td>-650.0</td><td>32.17</td><td>(-0.86)</td><td>150.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-42.47</td><td>(-4.43)</td><td>-12.45 k</td><td>-42.98</td><td>(-6.76)</td><td>12.20 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-42.28</td><td>(-22.28)</td><td>-19.45 k</td><td>-42.04</td><td>(-22.04)</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> File <MASK D.state> recalled (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	-24.35	(-57.38)	-650.0	32.17	(-0.86)	150.0	5.625 kHz	12.50 kHz	100.0 Hz	-42.47	(-4.43)	-12.45 k	-42.98	(-6.76)	12.20 k	12.50 kHz	60.00 kHz	100.0 Hz	-42.28	(-22.28)	-19.45 k	-42.04	(-22.04)	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	—	(—)	—	—	(—)	—																																																																			
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Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _{M1}	Agilent Spectrum Analyzer - Spectrum Emission Mask 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 Center Freq 405.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 28 dB Ref 37.0 dBm IF Gain: Low #Atten: 40 dB PASS 10 dB/div Log 27.0 17.0 7.0 3.0 13.0 23.0 33.0 43.0 53.0 Center 406 MHz Span 120 kHz Total Power Ref 32.23 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>22.61</td><td>(-10.43)</td><td>-2.300 k</td><td>31.08</td><td>(-1.95)</td><td>200.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-37.95</td><td>(-2.46)</td><td>-12.10 k</td><td>-39.67</td><td>(-1.27)</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>-18.15 k</td><td>-38.53</td><td>(-18.53)</td><td>12.70 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></table> File <Temp.png> saved STATUS Frequency Center Freq 405.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	22.61	(-10.43)	-2.300 k	31.08	(-1.95)	200.0	5.625 kHz	12.50 kHz	100.0 Hz	-37.95	(-2.46)	-12.10 k	-39.67	(-1.27)	12.50 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.93	(-19.93)	-18.15 k	-38.53	(-18.53)	12.70 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
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TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 Center Freq 406.112500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 28 dB Ref 37.0 dBm IF Gain: Low #Atten: 40 dB PASS 10 dB/div Log 27.0 17.0 7.0 3.0 13.0 23.0 33.0 43.0 53.0 Center 406.1 MHz Span 120 kHz Total Power Ref 32.34 dBm 0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>-23.23</td><td>(-56.21)</td><td>-700.0</td><td>32.11</td><td>(-0.86)</td><td>200.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-45.75</td><td>(-8.74)</td><td>-12.30 k</td><td>-43.44</td><td>(-6.06)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.86</td><td>(-21.86)</td><td>-14.10 k</td><td>-41.68</td><td>(-21.68)</td><td>14.45 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File <MASK.D.state> recalled STATUS Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	-23.23	(-56.21)	-700.0	32.11	(-0.86)	200.0	5.625 kHz	12.50 kHz	100.0 Hz	-45.75	(-8.74)	-12.30 k	-43.44	(-6.06)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.86	(-21.86)	-14.10 k	-41.68	(-21.68)	14.45 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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12.50 kHz	60.00 kHz	100.0 Hz	-41.86	(-21.86)	-14.10 k	-41.68	(-21.68)	14.45 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANL	FM	CH _{M2}	Agilent Spectrum Analyzer - Spectrum Emission Mask 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 Center Freq 406.112500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS Ref Offset 28 dB Ref 37.0 dBm IF Gain: Low #Atten: 40 dB PASS 10 dB/div Log 27.0 17.0 7.0 3.0 13.0 23.0 33.0 43.0 53.0 Center 406.1 MHz Span 120 kHz Total Power Ref 32.31 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>22.54</td><td>(-10.43)</td><td>-2.300 k</td><td>31.03</td><td>(-1.94)</td><td>200.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.10</td><td>(-0.64)</td><td>-12.50 k</td><td>-38.33</td><td>(-2.41)</td><td>12.15 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.37</td><td>(-20.37)</td><td>-13.70 k</td><td>-39.91</td><td>(-19.91)</td><td>13.30 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> File <Temp.png> saved STATUS Frequency Center Freq 406.112500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	22.54	(-10.43)	-2.300 k	31.03	(-1.94)	200.0	5.625 kHz	12.50 kHz	100.0 Hz	-39.10	(-0.64)	-12.50 k	-38.33	(-2.41)	12.15 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.37	(-20.37)	-13.70 k	-39.91	(-19.91)	13.30 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																										
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12.50 kHz	60.00 kHz	100.0 Hz	-40.37	(-20.37)	-13.70 k	-39.91	(-19.91)	13.30 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-ANL	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS IF Gain: Low Ref Offset 28 dB Ref 38.0 dBm 10 dB/div Log 28.0 18.0 8.00 2.00 12.0 32.0 52.0 Center 438 MHz Span 120 kHz Total Power Ref 32.63 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>-25.94</td><td>(-59.71)</td><td>-800.0</td><td>32.72</td><td>(-1.05)</td><td>200.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-40.92</td><td>(-6.53)</td><td>-12.05 k</td><td>-41.07</td><td>(-3.77)</td><td>12.45 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-40.48</td><td>(-20.48)</td><td>-12.65 k</td><td>-41.32</td><td>(-21.32)</td><td>13.05 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> MSO File <MASK.D.state> recalled STATUS Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	-25.94	(-59.71)	-800.0	32.72	(-1.05)	200.0	5.625 kHz	12.50 kHz	100.0 Hz	-40.92	(-6.53)	-12.05 k	-41.07	(-3.77)	12.45 k	12.50 kHz	60.00 kHz	100.0 Hz	-40.48	(-20.48)	-12.65 k	-41.32	(-21.32)	13.05 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANL	FM	CH _{M3}	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 438.012500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None Radio Device: BTS IF Gain: Low Ref Offset 28 dB Ref 38.0 dBm 10 dB/div Log 28.0 18.0 8.00 2.00 12.0 32.0 52.0 Center 438 MHz Span 120 kHz Total Power Ref 32.63 dBm/0.0125 MHz <table><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>< Peak > dBm</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>23.18</td><td>(-10.59)</td><td>-2.300 k</td><td>31.56</td><td>(-2.21)</td><td>200.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-39.37</td><td>(-2.79)</td><td>-12.35 k</td><td>-40.32</td><td>(-3.38)</td><td>12.40 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-39.44</td><td>(-19.44)</td><td>-13.70 k</td><td>-38.52</td><td>(-18.52)</td><td>12.70 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></table> MSO File <Temp.png> saved STATUS Frequency Center Freq 438.012500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	23.18	(-10.59)	-2.300 k	31.56	(-2.21)	200.0	5.625 kHz	12.50 kHz	100.0 Hz	-39.37	(-2.79)	-12.35 k	-40.32	(-3.38)	12.40 k	12.50 kHz	60.00 kHz	100.0 Hz	-39.44	(-19.44)	-13.70 k	-38.52	(-18.52)	12.70 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 > dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask Center Freq 469.987500 MHz Trig: Free Run #Atten: 40 dB Radio Std: None Radio Device: BTS IF Gain: Low Ref Offset 28 dB Ref 38.0 dBm 10 dB/div Log 28.0 18.0 8.00 2.00 12.0 32.0 52.0 Center 470 MHz Span 120 kHz Total Power Ref 32.78 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>-22.45</td><td>(-56.24)</td><td>-2.200 k</td><td>32.76</td><td>(-1.03)</td><td>150.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-44.26</td><td>(-7.71)</td><td>-12.35 k</td><td>-41.89</td><td>(-5.70)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-41.32</td><td>(-21.32)</td><td>-13.95 k</td><td>-42.04</td><td>(-22.04)</td><td>14.25 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></table> MSO File <MASK.D.state> recalled STATUS Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	-22.45	(-56.24)	-2.200 k	32.76	(-1.03)	150.0	5.625 kHz	12.50 kHz	100.0 Hz	-44.26	(-7.71)	-12.35 k	-41.89	(-5.70)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-41.32	(-21.32)	-13.95 k	-42.04	(-22.04)	14.25 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
			Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	< Peak > dBm	Upper ΔLim(dB)	Freq (Hz)																																																							
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12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										



Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																								
TX-ANL	FM	CH _H	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF SD AC SENSE: PULSE ALIST: OFF 09:56:43 AM Oct 09, 2019 Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Trig: Free Run Avg: 100.00% of 10 Radio Std: None PASS IF Gain: Low #Atten: 40 dB Radio Device: BTS Ref Offset: 28 dB Ref 38.0 dBm 10 dB/div 28.0 18.0 8.0 2.0 12.0 22.0 32.0 42.0 52.0 Center 470 MHz Span 120 kHz Total Power Ref 33.01 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>Peak Freq (Hz)</th><th>Upper ΔLim(dB)</th><th>Upper Freq (Hz)</th></tr><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>23.36</td><td>(-10.44)</td><td>-2.350 k</td><td>31.61</td><td>(-2.19)</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-37.89</td><td>(-1.70)</td><td>-12.30 k</td><td>-39.45</td><td>(-3.26)</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-38.36</td><td>(-18.36)</td><td>-12.75 k</td><td>-37.84</td><td>(-17.84)</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></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></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></tr></table> File <Temp.png> saved (STATUS) Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Auto Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak Freq (Hz)	Upper ΔLim(dB)	Upper Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	23.36	(-10.44)	-2.350 k	31.61	(-2.19)	5.625 kHz	12.50 kHz	100.0 Hz	-37.89	(-1.70)	-12.30 k	-39.45	(-3.26)	12.50 kHz	60.00 kHz	100.0 Hz	-38.36	(-18.36)	-12.75 k	-37.84	(-17.84)	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)	Peak Freq (Hz)	Upper ΔLim(dB)	Upper 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	—	(—)	—	(—)	—																																																				

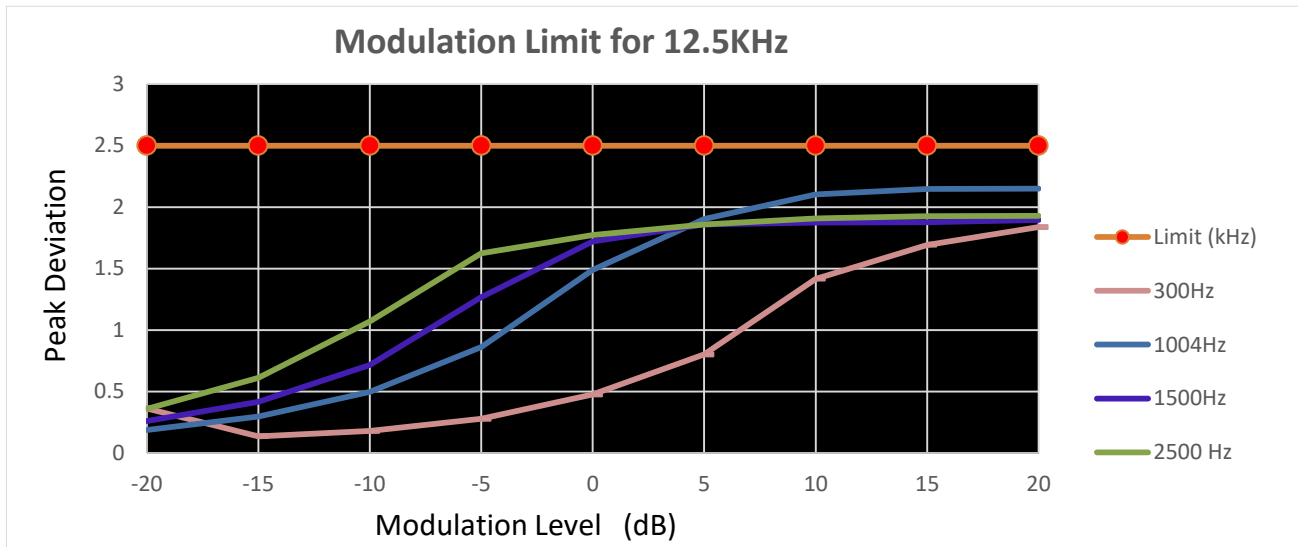
**Appendix D:Modulation Limit**

Operation Mode	Modulation Type	Test Channel	Modulation Level (dB)	Peak frequency deviation (kHz)				Limit (kHz)	Result
				300Hz	1004Hz	1500Hz	2500 Hz		
TX-ANH	FM	CH _{M2}	-20	0.363	0.189	0.26	0.36	2.5	PASS
TX-ANH	FM	CH _{M2}	-15	0.136	0.297	0.417	0.612	2.5	PASS
TX-ANH	FM	CH _{M2}	-10	0.179	0.498	0.717	1.071	2.5	PASS
TX-ANH	FM	CH _{M2}	-5	0.278	0.863	1.269	1.625	2.5	PASS
TX-ANH	FM	CH _{M2}	0	0.476	1.49	1.722	1.773	2.5	PASS
TX-ANH	FM	CH _{M2}	5	0.802	1.902	1.858	1.859	2.5	PASS
TX-ANH	FM	CH _{M2}	10	1.417	2.104	1.873	1.907	2.5	PASS
TX-ANH	FM	CH _{M2}	15	1.693	2.147	1.877	1.926	2.5	PASS
TX-ANH	FM	CH _{M2}	20	1.837	2.149	1.896	1.93	2.5	PASS



Appendix D:Modulation Limit

TEST PLOT RESULT



**Appendix E:Aduio Frequency Response**

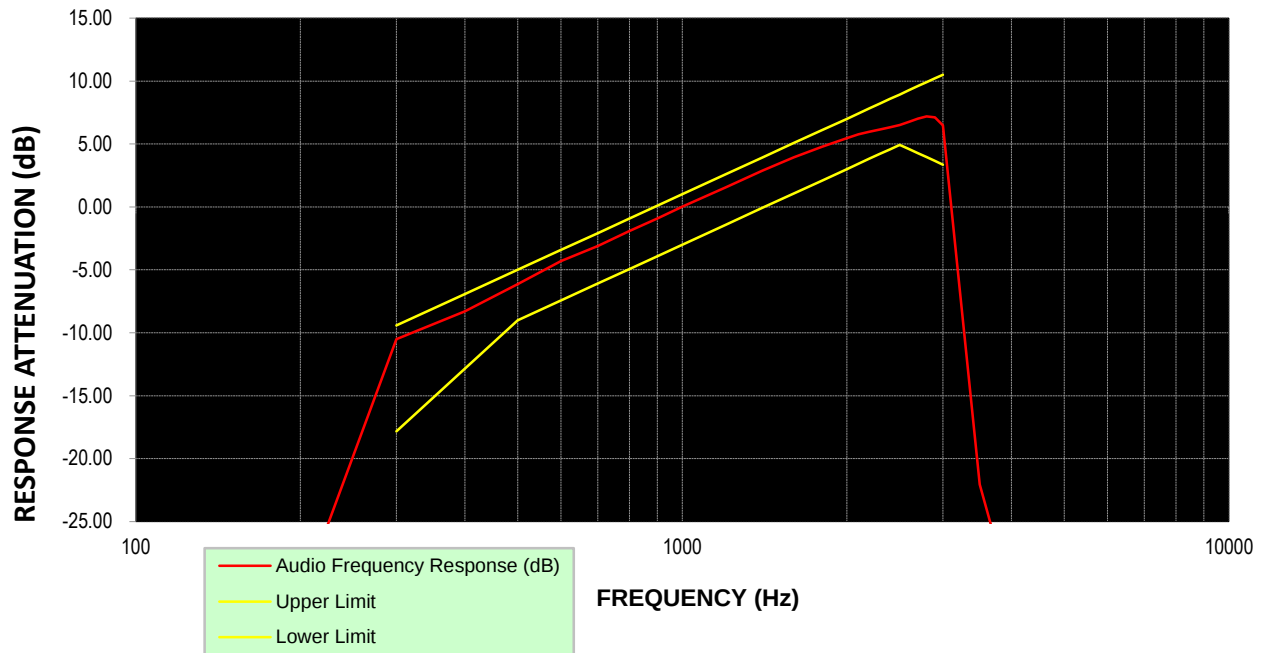
Operation Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-ANH	FM	CH _{M2}	100	-31.45	-	-	PASS
TX-ANH	FM	CH _{M2}	200	-31.14	-	-	PASS
TX-ANH	FM	CH _{M2}	300	-10.52	-17.84	-9.42	PASS
TX-ANH	FM	CH _{M2}	400	-8.30	-12.86	-6.93	PASS
TX-ANH	FM	CH _{M2}	500	-6.14	-9.00	-5.00	PASS
TX-ANH	FM	CH _{M2}	600	-4.32	-7.42	-3.42	PASS
TX-ANH	FM	CH _{M2}	700	-3.10	-6.09	-2.09	PASS
TX-ANH	FM	CH _{M2}	800	-1.92	-4.93	-0.93	PASS
TX-ANH	FM	CH _{M2}	900	-0.92	-3.91	0.09	PASS
TX-ANH	FM	CH _{M2}	1000	0.02	-3.00	1.00	PASS
TX-ANH	FM	CH _{M2}	1200	1.55	-1.42	2.58	PASS
TX-ANH	FM	CH _{M2}	1400	2.86	-0.09	3.91	PASS
TX-ANH	FM	CH _{M2}	1600	3.95	1.07	5.07	PASS
TX-ANH	FM	CH _{M2}	1800	4.77	2.09	6.09	PASS
TX-ANH	FM	CH _{M2}	2000	5.47	3.00	7.00	PASS
TX-ANH	FM	CH _{M2}	2100	5.76	3.42	7.42	PASS
TX-ANH	FM	CH _{M2}	2200	5.96	3.83	7.83	PASS
TX-ANH	FM	CH _{M2}	2300	6.14	4.21	8.21	PASS
TX-ANH	FM	CH _{M2}	2400	6.32	4.58	8.58	PASS
TX-ANH	FM	CH _{M2}	2500	6.52	4.93	8.93	PASS
TX-ANH	FM	CH _{M2}	2600	6.76	4.59	9.27	PASS
TX-ANH	FM	CH _{M2}	2700	7.01	4.27	9.60	PASS
TX-ANH	FM	CH _{M2}	2800	7.18	3.95	9.91	PASS
TX-ANH	FM	CH _{M2}	2900	7.13	3.65	10.22	PASS
TX-ANH	FM	CH _{M2}	3000	6.48	3.35	10.51	PASS
TX-ANH	FM	CH _{M2}	3500	-22.05	-	-	PASS
TX-ANH	FM	CH _{M2}	4000	-31.14	-	-	PASS
TX-ANH	FM	CH _{M2}	4500	-31.52	-	-	PASS
TX-ANH	FM	CH _{M2}	5000	-31.23	-	-	PASS



Appendix E:Aduio Frequency Response

TEST PLOT RESULT

Aduio Freqeuncy Response For 12.5kHz



Note: The highest audio frequency response at 3kHz<3.125kHz, so meet the requirement.

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

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)					Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _{M1}	CH _{M2}	CH _{M3}	CH _H		
TX-DNH	4FSK	V _N	-30	0.165	0.160	0.171	0.161	0.177	±5.0	PASS
TX-DNH	4FSK	V _N	-20	0.156	0.149	0.161	0.152	0.163	±5.0	PASS
TX-DNH	4FSK	V _N	-10	0.145	0.140	0.149	0.140	0.154	±5.0	PASS
TX-DNH	4FSK	V _N	0	0.133	0.126	0.134	0.130	0.140	±5.0	PASS
TX-DNH	4FSK	V _N	10	0.124	0.121	0.125	0.121	0.134	±5.0	PASS
TX-DNH	4FSK	V _N	20	0.114	0.111	0.118	0.109	0.123	±5.0	PASS
TX-DNH	4FSK	V _N	30	0.126	0.119	0.128	0.116	0.135	±5.0	PASS
TX-DNH	4FSK	V _N	40	0.138	0.127	0.139	0.122	0.141	±5.0	PASS
TX-DNH	4FSK	V _N	55	0.149	0.138	0.150	0.132	0.153	±5.0	PASS
TX-DNL	4FSK	V _N	-30	0.177	0.179	0.176	0.182	<u>0.188</u>	±5.0	PASS
TX-DNL	4FSK	V _N	-20	0.166	0.165	0.166	0.171	0.178	±5.0	PASS
TX-DNL	4FSK	V _N	-10	0.151	0.159	0.159	0.161	0.169	±5.0	PASS
TX-DNL	4FSK	V _N	0	0.138	0.142	0.142	0.148	0.155	±5.0	PASS
TX-DNL	4FSK	V _N	10	0.127	0.131	0.134	0.137	0.143	±5.0	PASS
TX-DNL	4FSK	V _N	20	0.117	0.123	0.125	0.124	0.135	±5.0	PASS
TX-DNL	4FSK	V _N	30	0.128	0.128	0.132	0.131	0.147	±5.0	PASS
TX-DNL	4FSK	V _N	40	0.143	0.133	0.141	0.139	0.157	±5.0	PASS
TX-DNL	4FSK	V _N	55	0.150	0.140	0.151	0.148	0.164	±5.0	PASS
TX-ANH	FM	V _N	-30	0.307	0.304	0.313	0.329	0.331	±5.0	PASS
TX-ANH	FM	V _N	-20	0.298	0.296	0.301	0.322	0.321	±5.0	PASS
TX-ANH	FM	V _N	-10	0.291	0.284	0.289	0.315	0.309	±5.0	PASS
TX-ANH	FM	V _N	0	0.279	0.274	0.277	0.306	0.302	±5.0	PASS
TX-ANH	FM	V _N	10	0.268	0.262	0.270	0.295	0.291	±5.0	PASS
TX-ANH	FM	V _N	20	0.261	0.251	0.263	0.288	0.283	±5.0	PASS
TX-ANH	FM	V _N	30	0.268	0.259	0.273	0.299	0.290	±5.0	PASS
TX-ANH	FM	V _N	40	0.277	0.269	0.284	0.306	0.299	±5.0	PASS
TX-ANH	FM	V _N	55	0.287	0.279	0.291	0.313	0.306	±5.0	PASS
TX-ANL	FM	V _N	-30	0.302	0.313	0.320	<u>0.347</u>	0.343	±5.0	PASS
TX-ANL	FM	V _N	-20	0.291	0.302	0.312	0.339	0.332	±5.0	PASS
TX-ANL	FM	V _N	-10	0.284	0.291	0.305	0.331	0.322	±5.0	PASS
TX-ANL	FM	V _N	0	0.275	0.283	0.297	0.321	0.310	±5.0	PASS
TX-ANL	FM	V _N	10	0.265	0.273	0.286	0.311	0.300	±5.0	PASS
TX-ANL	FM	V _N	20	0.257	0.266	0.278	0.299	0.291	±5.0	PASS
TX-ANL	FM	V _N	30	0.268	0.273	0.285	0.306	0.301	±5.0	PASS
TX-ANL	FM	V _N	40	0.275	0.284	0.294	0.316	0.311	±5.0	PASS
TX-ANL	FM	V _N	55	0.284	0.291	0.303	0.327	0.322	±5.0	PASS

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

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)					Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _{M1}	CH _{M2}	CH _{M3}	CH _H		
TX-DNH	4FSK	V _N	T _N	0.114	0.111	0.118	0.109	0.123	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	0.152	0.155	0.155	0.152	<u>0.159</u>	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	0.149	0.136	0.145	0.133	0.152	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	0.117	0.123	0.125	0.124	0.135	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	0.162	0.163	0.167	0.167	0.171	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	0.150	0.152	0.152	0.153	0.162	±5.0	PASS
TX-ANH	FM	V _N	T _N	0.261	0.251	0.263	0.288	0.283	±5.0	PASS
TX-ANH	FM	V _L	T _N	0.299	0.298	0.304	0.324	0.325	±5.0	PASS
TX-ANH	FM	V _H	T _N	0.291	0.272	0.293	0.304	0.286	±5.0	PASS
TX-ANL	FM	V _N	T _N	0.257	0.266	0.278	0.299	0.291	±5.0	PASS
TX-ANL	FM	V _L	T _N	0.300	0.305	0.323	<u>0.347</u>	0.332	±5.0	PASS
TX-ANL	FM	V _H	T _N	0.274	0.300	0.306	0.332	0.320	±5.0	PASS

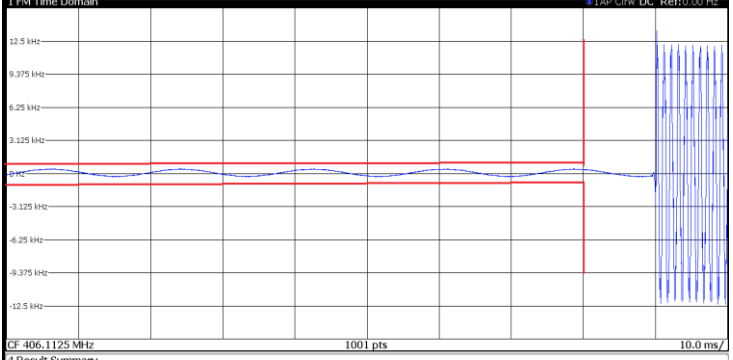


Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																				
TX-DNH	4FSK	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 40.00 dBm Offset 20.50 dB Att 29 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG: JFSK (17MHz) YIG Bypass 1 FM Time Domain CF 406.1125 MHz 1001 pts 10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 29.02 dBm</td><td colspan="2">Carrier Offset 64.60 Hz</td></tr><tr><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td></tr><tr><td>FM 12.216 kHz</td><td>-15.037 kHz</td><td>13.627 kHz</td><td>8.747 kHz</td></tr><tr><td colspan="2">Mod. Freq. 1.03 kHz</td><td>SINAD</td><td>THD</td></tr><tr><td colspan="2"></td><td>---</td><td>---</td></tr></table> Analog Demod: Waiting for Trigger...Measuring... 26.09.2019 13:41:18 Date: 26.SEP.2019 13:41:19 OFF-ON	Carrier Power 29.02 dBm		Carrier Offset 64.60 Hz		+Peak	-Peak	+Peak/2	RMS	FM 12.216 kHz	-15.037 kHz	13.627 kHz	8.747 kHz	Mod. Freq. 1.03 kHz		SINAD	THD			---	---
Carrier Power 29.02 dBm		Carrier Offset 64.60 Hz																					
+Peak	-Peak	+Peak/2	RMS																				
FM 12.216 kHz	-15.037 kHz	13.627 kHz	8.747 kHz																				
Mod. Freq. 1.03 kHz		SINAD	THD																				
		---	---																				
TX-DNH	4FSK	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 40.00 dBm Offset 20.50 dB Att 29 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG: JFSK (17MHz) YIG Bypass 1 FM Time Domain CF 406.1125 MHz 1001 pts 10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 28.99 dBm</td><td colspan="2">Carrier Offset 56.53 Hz</td></tr><tr><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td></tr><tr><td>FM 13.48 kHz</td><td>-12.348 kHz</td><td>12.914 kHz</td><td>8.7775 kHz</td></tr><tr><td colspan="2">Mod. Freq. 1.0125 kHz</td><td>SINAD</td><td>THD</td></tr><tr><td colspan="2"></td><td>---</td><td>---</td></tr></table> Analog Demod: Waiting for Trigger...Measuring... 26.09.2019 13:41:51 Date: 26.SEP.2019 13:41:51 ON-OFF	Carrier Power 28.99 dBm		Carrier Offset 56.53 Hz		+Peak	-Peak	+Peak/2	RMS	FM 13.48 kHz	-12.348 kHz	12.914 kHz	8.7775 kHz	Mod. Freq. 1.0125 kHz		SINAD	THD			---	---
Carrier Power 28.99 dBm		Carrier Offset 56.53 Hz																					
+Peak	-Peak	+Peak/2	RMS																				
FM 13.48 kHz	-12.348 kHz	12.914 kHz	8.7775 kHz																				
Mod. Freq. 1.0125 kHz		SINAD	THD																				
		---	---																				
TX-ANH	FM	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 40.00 dBm Offset 20.50 dB Att 29 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG: JFSK (17MHz) YIG Bypass 1 FM Time Domain CF 406.1125 MHz 1001 pts 10.0 ms/ 4 Result Summary <table><tr><td colspan="2">Carrier Power 29.02 dBm</td><td colspan="2">Carrier Offset 64.60 Hz</td></tr><tr><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td></tr><tr><td>FM 12.216 kHz</td><td>-15.037 kHz</td><td>13.627 kHz</td><td>8.747 kHz</td></tr><tr><td colspan="2">Mod. Freq. 1.03 kHz</td><td>SINAD</td><td>THD</td></tr><tr><td colspan="2"></td><td>---</td><td>---</td></tr></table> Analog Demod: Waiting for Trigger...Measuring... 26.09.2019 13:41:18 Date: 26.SEP.2019 13:41:19 OFF-ON	Carrier Power 29.02 dBm		Carrier Offset 64.60 Hz		+Peak	-Peak	+Peak/2	RMS	FM 12.216 kHz	-15.037 kHz	13.627 kHz	8.747 kHz	Mod. Freq. 1.03 kHz		SINAD	THD			---	---
Carrier Power 29.02 dBm		Carrier Offset 64.60 Hz																					
+Peak	-Peak	+Peak/2	RMS																				
FM 12.216 kHz	-15.037 kHz	13.627 kHz	8.747 kHz																				
Mod. Freq. 1.03 kHz		SINAD	THD																				
		---	---																				



Appendix H:Transmitter Frequency Behavior

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																				
TX-ANH	FM	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 40.00 dBm Offset 20.50 dB Att 29 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRIG: JPSK (170MHz) VSG Bypass 1 FM Time Domain  CF 406.1125 MHz 1001 pts 10.0 ms/ 4 Result Summary <table><tr><th></th><th>Carrier Power</th><th>28.99 dBm</th><th>Carrier Offset</th><th>56.53 Hz</th><th>SINAD</th><th>THD</th></tr><tr><td>FM</td><td>+Peak</td><td>13.48 kHz</td><td>-Peak</td><td>-12.348 kHz</td><td>+Peak/2</td><td>12.914 kHz</td><td>RMS</td><td>8.7775 kHz</td><td>Mod. Freq.</td><td>1.0125 kHz</td><td>---</td><td>---</td></tr></table> Analog Demod: Waiting for Trigger... Measuring... 26.09.2019 13:41:51		Carrier Power	28.99 dBm	Carrier Offset	56.53 Hz	SINAD	THD	FM	+Peak	13.48 kHz	-Peak	-12.348 kHz	+Peak/2	12.914 kHz	RMS	8.7775 kHz	Mod. Freq.	1.0125 kHz	---	---
	Carrier Power	28.99 dBm	Carrier Offset	56.53 Hz	SINAD	THD																	
FM	+Peak	13.48 kHz	-Peak	-12.348 kHz	+Peak/2	12.914 kHz	RMS	8.7775 kHz	Mod. Freq.	1.0125 kHz	---	---											

ON-OFF

ON-OFF



Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Sweep SA Center Freq 515.000000 MHz PNO: Fast IF Gain: Low Trig: Free Run Atten: 6 dB Avg Type: Log-Pwr AvgHold: 23/100 Ref Offset 27 dB Ref 0.00 dBm Mkr3 800.18 MHz -49.157 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.000 GHz Sweep 92.73 ms (1001 pts) Mkr MODE TRG SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE 1 N 1 f 399.57 MHz -13.695 dBm 2 N 1 f 442.26 MHz -45.840 dBm 3 N 1 f 800.18 MHz -49.157 dBm 4 5 6 7 8 9 10 11 File <Temp.png> saved 30MHz~1GHz
TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Sweep SA Center Freq 2.500062500 GHz PNO: Fast IF Gain: Low Trig: Free Run Atten: 6 dB Avg Type: Log-Pwr AvgHold: 36/100 Ref Offset 27 dB Ref 0.00 dBm Mkr1 3.103 GHz -44.841 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 4.000 GHz Sweep 5.067 ms (1001 pts) File <Temp.png> saved 1GHz~10th Harmonic
TX-DNH	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Sweep SA Center Freq 515.000000 MHz PNO: Fast IF Gain: Low Trig: Free Run Atten: 6 dB Avg Type: Log-Pwr AvgHold: 23/100 Ref Offset 27 dB Ref 0.00 dBm Mkr3 651.77 MHz -49.668 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.000 GHz Sweep 92.73 ms (1001 pts) Mkr MODE TRG SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE 1 N 1 f 406.36 MHz -22.957 dBm 2 N 1 f 459.91 MHz -42.272 dBm 3 N 1 f 651.77 MHz -49.668 dBm 4 5 6 7 8 9 10 11 File <Temp.png> saved 30MHz~1GHz

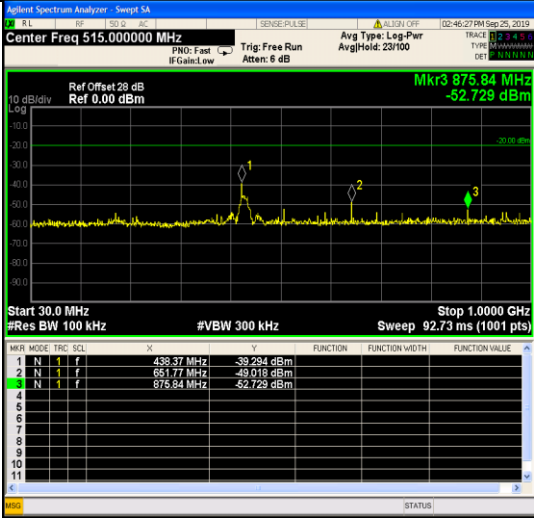
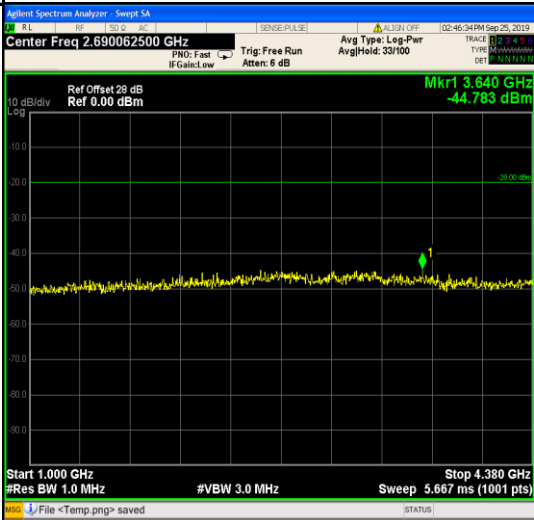
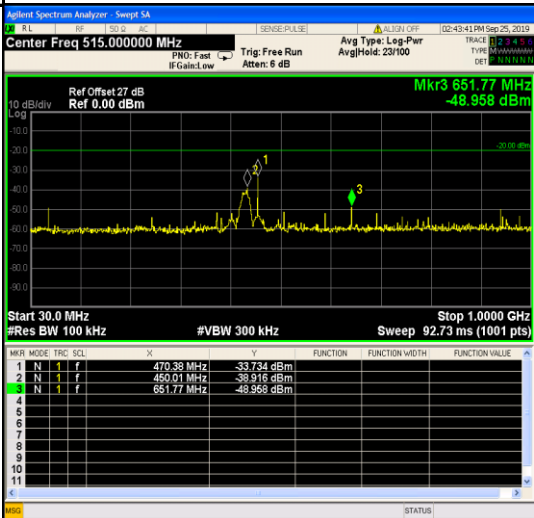


Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-DNH	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Swept SA Center Freq 2.529937500 GHz Ref Offset 27 dB Ref 0.00 dBm Mkr1 3.169 GHz -44.717 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.133 ms (1001 pts) File <Temp.png> saved Frequency Auto Tune Center Freq 2.529937500 GHz Start Freq 1.000000000 GHz Stop Freq 4.059875000 GHz CF Step 305.987500 MHz Auto Man Freq Offset 0 Hz 1GHz~10th Harmonic																																				
TX-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 27 dB Ref 0.00 dBm Mkr3 651.77 MHz -52.897 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts) <table><tr><th>Mkr</th><th>Mode</th><th>Trig</th><th>SCL</th><th>X</th><th>Y</th><th>Function</th><th>Function Width</th><th>Function Value</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>458.38 MHz</td><td>-22.764 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>442.26 MHz</td><td>-45.867 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>651.77 MHz</td><td>-52.897 dBm</td><td></td><td></td><td></td></tr></table> File <Temp.png> saved Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Auto Man Freq Offset 0 Hz 30MHz~1GHz	Mkr	Mode	Trig	SCL	X	Y	Function	Function Width	Function Value	1	N	1	f	458.38 MHz	-22.764 dBm				2	N	1	f	442.26 MHz	-45.867 dBm				3	N	1	f	651.77 MHz	-52.897 dBm			
Mkr	Mode	Trig	SCL	X	Y	Function	Function Width	Function Value																															
1	N	1	f	458.38 MHz	-22.764 dBm																																		
2	N	1	f	442.26 MHz	-45.867 dBm																																		
3	N	1	f	651.77 MHz	-52.897 dBm																																		
TX-DNH	4FSK	CH _{M2}	Agilent Spectrum Analyzer - Swept SA Center Freq 2.530562500 GHz Ref Offset 27 dB Ref 0.00 dBm Mkr1 3.400 GHz -44.606 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.133 ms (1001 pts) File <Temp.png> saved Frequency Auto Tune Center Freq 2.530562500 GHz Start Freq 1.000000000 GHz Stop Freq 4.061125000 GHz CF Step 305.112500 MHz Auto Man Freq Offset 0 Hz 1GHz~10th Harmonic																																				



Appendix I:Spurious Emission On Antenna Port

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																					
TX-DNH	4FSK	CH _{M3}	 Agilent Spectrum Analyzer - Sweep SA Center Freq 515.000000 MHz Ref Offset 28 dB Ref 0.00 dBm Mkr3 875.84 MHz -52.729 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.0000 GHz Sweep 92.73 ms (1001 pts) <table><tr><th>Mkr</th><th>Mode</th><th>Trc</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>438.37 MHz</td><td>-39.284 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>651.77 MHz</td><td>-49.018 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>875.84 MHz</td><td>-52.729 dBm</td><td></td><td></td><td></td></tr></table>	Mkr	Mode	Trc	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	438.37 MHz	-39.284 dBm				2	N	1	f	651.77 MHz	-49.018 dBm				3	N	1	f	875.84 MHz	-52.729 dBm				Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Freq Offset 0 Hz
			Mkr	Mode	Trc	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																													
1	N	1	f	438.37 MHz	-39.284 dBm																																			
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30MHz~1GHz																																								
TX-DNH	4FSK	CH _{M3}	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.690062500 GHz Ref Offset 28 dB Ref 0.00 dBm Mkr1 3.640 GHz -44.783 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 4.380 GHz Sweep 5.667 ms (1001 pts) File <Temp.png> saved	Frequency Auto Tune Center Freq 2.690062500 GHz Start Freq 1.000000000 GHz Stop Freq 4.380125000 GHz CF Step 338.012500 MHz Freq Offset 0 Hz																																				
			1GHz~10th Harmonic																																					
TX-DNH	4FSK	CH _H	 Agilent Spectrum Analyzer - Sweep SA Center Freq 515.000000 MHz Ref Offset 27 dB Ref 0.00 dBm Mkr3 651.77 MHz -48.958 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.0000 GHz Sweep 92.73 ms (1001 pts) <table><tr><th>Mkr</th><th>Mode</th><th>Trc</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>470.38 MHz</td><td>-33.734 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>450.01 MHz</td><td>-38.916 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>651.77 MHz</td><td>-48.958 dBm</td><td></td><td></td><td></td></tr></table>	Mkr	Mode	Trc	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	470.38 MHz	-33.734 dBm				2	N	1	f	450.01 MHz	-38.916 dBm				3	N	1	f	651.77 MHz	-48.958 dBm				Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Freq Offset 0 Hz
			Mkr	Mode	Trc	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																													
1	N	1	f	470.38 MHz	-33.734 dBm																																			
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Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Swept SA Center Freq 2.849937500 GHz Ref Offset 27 dB Ref 0.00 dBm 10 dB/div Log Mkr1 3.113 GHz -45.843 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 4.700 GHz Sweep 6.200 ms (1001 pts) File <Temp.png> saved STATUS Frequency Auto Tune Center Freq 2.849937500 GHz Start Freq 1.000000000 GHz Stop Freq 4.699875000 GHz CF Step 369.987500 MHz Auto Man Freq Offset 0 Hz 1GHz~10th Harmonic
TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 27 dB Ref 0.00 dBm 10 dB/div Log Mkr3 800.18 MHz -52.794 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.000 GHz Sweep 92.73 ms (1001 pts) File <Temp.png> saved STATUS Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Auto Man Freq Offset 0 Hz 30MHz~1GHz
TX-ANH	FM	CH _L	Agilent Spectrum Analyzer - Swept SA Center Freq 2.500062500 GHz Ref Offset 27 dB Ref 0.00 dBm 10 dB/div Log Mkr1 3.160 GHz -44.885 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 4.000 GHz Sweep 5.067 ms (1001 pts) File <Temp.png> saved STATUS Frequency Auto Tune Center Freq 2.500062500 GHz Start Freq 1.000000000 GHz Stop Freq 4.000125000 GHz CF Step 300.012500 MHz Auto Man Freq Offset 0 Hz 1GHz~10th Harmonic